2003 Commercial Buildings Energy Consumption Survey

Detailed Tables

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2003 Commercial Buildings Energy Consumption Survey
Detailed Tables

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Introduction

The Commercial Buildings Energy Consumption Survey (CBECS) is conducted quadrennially by the Energy Information Administration (EIA) to provide basic statistical information about energy consumption and expenditures in U.S. commercial buildings and information about energy-related characteristics of these buildings. The survey is based upon a sample of approximately 6,000 commercial buildings in the U.S. larger than 1,000 square feet in size. CBECS collects energy information from a representative of each building in the sample during a computer-assisted personal interview. The 2003 CBECS was the eighth survey conducted since 1979.

The CBECS is conducted in two data-collection stages: a Building Characteristics Survey and an Energy Suppliers Survey. The Energy Suppliers Survey is initiated only if the respondents to the Building Characteristics Survey cannot provide the energy consumption and expenditures information, or the information provided fails edits within the survey instrument.

During the Building Characteristics Survey, respondents are asked questions about the building size, how the building is used, types of energy-using equipment and conservation measures that are present in the building, the types of energy sources used, and the amount and cost of energy used in the building.

Upon completion of the Building Characteristics Survey, the Energy Suppliers Survey is initiated for those cases that did not provide satisfactory consumption and expenditures information. This Suppliers Survey obtains data about the building's actual consumption of and expenditures for energy from records maintained by energy suppliers. These billing data are collected in a mail survey.

These building characteristics and energy supplier data are edited and then aggregated and compiled into these Detailed Tables for publication. Other specialized data reports are available on the CBECS web site at http://www.eia.doe.gov/emeu/cbecs/cbecsreports.html. Microdata files are also available for users who wish to perform their own analyses; these may be found at http://www.eia.doe.gov/emeu/cbecs/public_use.html.

Change in Data Collection Procedures for Malls in the 2003 CBECS

For nearly all of the CBECS building activities, collection of the data with a building-level questionnaire is straightforward because a knowledgeable respondent can provide accurate information during the interview. However, use of a *building* questionnaire for two types of mercantile buildings—strip shopping centers and enclosed malls—creates special problems. These buildings contain anywhere from a few to more than 100 establishments, and each of the establishments has characteristics that can—and do—vary significantly from the other establishments. Therefore, no single respondent may be knowledgeable about the mall building and all of its establishments.

Instead of conducting a single building interview, we interviewed a subsample of up to three individual establishments within each sampled mall building using an *establishment* questionnaire and in addition, interviewed a representative of enclosed malls to collect information on the common area of those malls. We used publicly available information and data from a purchased shopping mall database in combination with establishment data collected by CBECS to estimate the square footage of mall buildings.

We present the building characteristics data with two sets of building characteristics tables. Tables A1-A8 include all commercial buildings while tables B1-B46 *exclude* mall buildings. Tables A1-A8 have a limited number of row categories—only those for which CBECS collected complete building information. The row categories are building floorspace, principal building activity, year constructed, Census region and division, and number of establishments. The data in these tables are representative of the entire commercial buildings sector and the data are comparable with previous CBECS. Table Set B (which begins with Non-Mall Buildings) has the full range of row categories of previous CBECS, but excludes mall buildings; therefore, these data are not directly comparable to previous CBECS.

Similarly, there are two sets of consumption and expenditures tables. Tables C1-C38 *exclude* mall buildings while tables C1A-C38A include all commercial buildings. Tables C1-C38 have the full range of row categories of previous CBECS, but they exclude mall buildings; therefore, these data are not directly comparable to previous CBECS. Tables C1-C38 have the same limited row categories as Tables A1-A8 (see previous paragraph). The data in these tables are representative of the entire commercial buildings sector and the data are comparable with previous CBECS.

Guide to the 2003 CBECS Detailed Tables

The detailed tables for the 2003 Commercial Buildings Energy Consumption Survey (CBECS) consist of building characteristics tables (A1-A8 and B1-B46), which contain the number of buildings and amount of floorspace for major building characteristics, and consumption and expenditures tables (C1-C38 and C1A-C38A), which contain energy usage data.

Tables A1-A8 and C1A-C38A contain basic information for all buildings including malls, whereas Tables B1-B46 and C1-C38 contain information only for non-mall buildings, as described in the previous section.

Tables B1 and B2 are summary tables. Tables B3-B21 address location, building size, year constructed, building activity, number of workers, hours of operation, and types of occupancy. Tables B22-B33 contain data about the energy sources used for all end uses and for specific major end uses. Tables B34-B46 contain data about percent of floorspace heated, cooled, and lit, and energy-using equipment types (heating, cooling, water heating, lighting, and refrigeration).

Tables C1-C12 and C1A-C12A contain energy usage data for the total of all major fuels (electricity, natural gas, fuel oil, and district heat). Tables C13-C22 and C13A-C22A contain electricity usage data. Tables C23-C32 and C23A-C32A contain natural gas usage data. Tables C33-C36 and C33A-C36A contain fuel oil usage data. Tables C37, C38, C37A, and C38A contain district heat usage data.

Column Categories

The column categories in the building characteristics tables mainly provide counts of number of buildings or total floorspace by various building characteristics. For example, in Table A2, the number in the “All Buildings” row and in the column labeled “Northeast” under the heading “Number of Buildings (thousand)” tells us that there were an estimated 761,000 buildings in the Northeast Census Region in 2003. This same column under the heading “Total Floorspace (million square feet)” tells us that these buildings comprised 13,995,000,000 square feet of total floorspace.

The column categories in the energy consumption and expenditures tables provide various measures of energy use. The following terms, listed in alphabetical order, are explanations of some of these columns that may require clarification:

Conditional Energy Intensity—The amount of electricity, natural gas, fuel oil, or district heat used per square foot only in buildings using the specified energy source. For example, in Table C15, data in the row labeled “Education” within the “Principal Building Activity” row category and in the column labeled “Northeast” under “Electricity Energy Intensity” should be interpreted: “In 2003, education buildings in the Northeast that used electricity as an energy source used an average of 7.8 kilowatthours of electricity per square foot.”

Distribution of Building-Level Intensities—The amount of energy used per square foot, divided into three percentiles: 25th, median (50th), and 75th. In Table C14, for example, the row labeled "Over 500,000" within the "Building Floorspace" row category and in the column labeled "25th Percentile" under "Distribution of Building-Level Intensities" should be interpreted: "In 2003, 25 percent of buildings in the U.S. larger than 500,000 square feet used 10.0 kWh per square foot or less, and 75 percent of these buildings used more than 10.0 kWh of electricity per square foot."

Electricity—Site electricity. (See "site electricity" and "primary electricity" in this listing.)

Energy Intensity—Usually defined as "gross energy intensity" or "conditional energy intensity" in title of table. If table title does not specify, "energy intensity" is to be defined as "conditional energy intensity."

Floorspace—The enclosed area in a building; the sum of the floorspace in all buildings in a category.

Gross Energy Intensity—The ratio of the total amount of energy consumed by a group of buildings to the total floorspace of those buildings, including buildings and floorspace where the energy source is not used. For example, in Table C5, data in the row category "Education" within the "Principal Building Activity" row category and in the column labeled "Northeast" under "Energy Intensity for Sum of Major Fuels" should be interpreted: "In 2003, education buildings in the Northeast consumed an average of 101.6 thousand Btu per square foot."

Major Fuel—Major energy sources: electricity, natural gas, fuel oil, and district heat (district steam or district hot water). Although electricity is technically not a fuel, "Major Fuel," rather than "Major Energy Source," was retained as the title of this category to facilitate comparison of previous CBECS data.

Primary Electricity—Site electricity plus the losses associated with the generation, transmission, and distribution of the electricity. Most of the tables present statistics for site consumption alone, but Tables C1 and C13 also provide consumption statistics for primary electricity.

Site Electricity—The amount of electricity delivered to the commercial building. This amount excludes losses associated with the generation, transmission, and distribution of the electricity. (See "primary electricity" in this listing.) Most of the tables in this section provide statistics for site electricity alone (not for primary electricity). When just the term "electricity" is used, the reference is to site electricity.

Sum of Major Fuels—The total of site electricity, natural gas, fuel oil, and district heat. Statistics in this column exclude data from the column "Primary Electricity."

Row Categories

The row categories classify data by specific features, such as principal building activity or energy sources used. Some of these categories are followed by the phrase "more than one may apply." This indicates overlapping categories, so that a particular building may be represented in more than one line under this stub (for example, in "Energy Sources," a building can use both electricity and natural gas). In general, row stubs without this designation are mutually exclusive—that is, they divide the population of buildings into distinct groups, so that a particular building is represented in no more than one line under this stub.

Any line within a row category that is indented should be interpreted as being a subset of the preceding line. For example, in the row category "Principal Building Activity," there are two indented lines under "Health Care"—"Inpatient" and "Outpatient." These are both subsets of the "Health Care" category.

Below are explanations of some of the row categories found in the tables that may require clarification. These terms are listed in the order in which they occur in the tables. Definitions of most terms found in the Detailed Tables can also be found in the Glossary (http://www.eia.doe.gov/emeu/cbecs/glossary_1.html).

All Buildings—In Tables A1 through A8, these are all roofed and walled structures whose principal activities are nonresidential, nonagricultural, and nonindustrial and that are larger than 1,000 square feet (roughly twice the size of a two-car garage). In Tables B1 through B46 and C1 through C38, these are the same except they do not include enclosed malls or strip shopping centers.

Principal Building Activity—A classification of the activity that occupies the most floorspace in the buildings. Some building types are combined in the tables. For example, refrigerated and non-refrigerated warehouses were combined as "warehouses," and skilled nursing care buildings were included in "lodging." For a full description of the principal building activity categories, see Description of Building Types (http://www.eia.doe.gov/emeu/cbecs/building_types.html).

Census Region and Division—The geographical areas as defined by the U.S. Bureau of Census. See Census Regions and Divisions Map (http://www.eia.doe.gov/emeu/cbecs/census_maps.html) for a map that shows the four Census Regions and nine Census Divisions.

Climate Zone—The five U.S. climate zones are based on the average number of cooling degree-days (CDD) and heating degree-days (HDD) in a 30-year period (1971-2000). See U.S. Climate Zone Map (http://www.eia.doe.gov/emeu/cbecs/climate_zones.html) for a map that shows the five U.S. climate zones.

Vacancy Status—"Completely Vacant" buildings are those that are 100 percent vacant; "Mostly Vacant" buildings are those in which the majority of the floorspace is vacant; "Partially Vacant" are those in which some (but not a majority) of the floorspace is vacant or some portion of the building was vacant for at least three consecutive months in 2003; and "Not At All Vacant" are those in which no portion of the building was reported as vacant in 2003.

Renovations in Buildings Constructed Before 1980—Buildings that were constructed in 1980 or any later year were not asked the question about renovations. So, in this row category, the line "Any Type of Renovation Since 1980" shows the number of buildings constructed before 1980 that have had any renovations since 1980, "No Renovations Since 1980" shows the number of buildings constructed before 1980 that have not had any renovations since 1980, and the last line, "Building Newer than 1980" shows the number of buildings that were not asked this question because they were constructed after 1980.

Energy Sources—Buildings using a specific type of energy (electricity, natural gas, fuel oil, district heat [district steam or district hot water], district chilled water, propane, and any other type of energy [wood, coal, or solar]) for any purpose. In the building characteristics tables, this row indicates the number of buildings or floorspace in buildings that use each energy source for any purpose. For example, in Table B38 (Heating Equipment), the figure in the column "Furnaces" and the row "Natural Gas" should be interpreted: "1,314,000 buildings have a furnace and also use natural gas for some purpose."

In the consumption and expenditures tables, this row indicates total consumption in buildings that use each energy source for any purpose. For example, in Table C3, the figure in the column "Sum of Major Fuel Consumption per Square Foot" and the row "Fuel Oil" should be interpreted: "Buildings that used fuel oil for any purpose consumed an average 116,100 Btu of total fuels per square foot in 2003." (It should NOT be interpreted as the consumption specifically of fuel oil.)

Energy End Uses—Buildings in which the specific end uses (heating, air-conditioning, water heating, cooking, and manufacturing) were present, NOT the actual amount of energy used for each end use. For example, in Table C1, data in the "Buildings with Cooling" row and in the "Sum of Major Fuels" column should interpreted: "Buildings with cooling consumed a total of 5,464 trillion Btu of the major fuels" (It should NOT be interpreted as the amount of energy specifically used for cooling"). **Neither Tables C1-C38 nor C1A-C38A contain any data on the energy consumption for end uses specifically.** End use consumption estimates will be published at a future date.

Space-Heating Energy Sources—Buildings using at least one of the major fuels, propane, wood, or any other energy source for space heating. In the building characteristics tables, this row indicates the number of buildings or floorspace in buildings that use each energy source for space heating. For example, in Table B38 (Heating Equipment), the figure in the column "Heat Pumps" and the row "Natural Gas" should be interpreted: "124,000 buildings have a heat pump and also use natural gas as an energy source for space heating." (It should NOT be interpreted as the number of buildings that use natural gas to power a heat pump. It is possible that they also use electricity for space heating, and that electricity is the energy source used for the heat pump.)

In the consumption and expenditures tables, this row indicates total consumption in buildings that use each energy source for space heating. For example, in Table C23, the figure in the column "Natural Gas Consumption" and the row "Natural Gas" should be interpreted: "1,749 billion cubic feet of natural gas were used in buildings that use natural gas for space heating." (It should NOT be interpreted as the consumption of natural gas specifically for space heating.)

Primary Space-Heating Energy Source—Buildings using a specific energy source to heat most of the square footage in the building most of the time. In the building characteristics tables, this row indicates the number of buildings or floorspace in buildings that use each energy source for primary space heating. For example, in Table B38 (Heating Equipment), the figure in the column "Furnaces" and the row "Electricity" should be interpreted: "296,000 buildings have a furnace and also use electricity as their primary space-heating energy source." (It should NOT be interpreted as the number of buildings that use electricity to power a furnace. It is possible that they use natural gas as a secondary space-heating energy source, and that natural gas is used as the energy source for the furnace.)

In the consumption and expenditures tables, this row indicates total consumption in buildings that use each energy source for primary space heating. For example, in Table C23, the figure in the column “Natural Gas Consumption” and the row “Electricity” should be interpreted: “171 billion cubic feet of natural gas were used in buildings that use electricity as their primary space heating energy source.”

Cooling Energy Source—Buildings using electricity, natural gas, or district chilled water for cooling. In the building characteristics tables, this row indicates the number of buildings or floorspace in buildings that use each energy source for cooling. For example, in Table B40 (Cooling Equipment), the figure in the column "Heat Pumps" and the row "Natural Gas" should be interpreted: "8,000 buildings have a heat pump for cooling and also use natural gas for cooling." (It should NOT be interpreted as the number of buildings that use natural gas to power a heat pump. It is possible that the heat pump is powered by electricity while the natural gas is used to run a chiller.)

In the consumption and expenditures tables, this row indicates total consumption in buildings that use each energy source for cooling. For example, in Table C13, the figure in the column “Site Electricity Consumption” and the row “Electricity” should be interpreted: “814 billion kWh of total electricity were used in buildings that use electricity as a cooling energy source.” (It should NOT be interpreted as the consumption of electricity specifically for cooling.)

Water-Heating Energy Source—Buildings using one of the major fuels or propane for water heating. In the building characteristics tables, this row indicates the number of buildings or floorspace in buildings that use each energy source for water heating.

In the consumption and expenditures tables, this row indicates total consumption in buildings that use each energy source for water heating. For example, in Table C23, the figure in the column “Natural Gas Consumption” and the row “Natural Gas” should be interpreted: “1,463 billion cubic feet of natural gas were used in buildings that use natural gas for water heating.” (It should NOT be interpreted as the consumption of natural gas specifically for water heating.)

Cooking Energy Source—Buildings using electricity, natural gas, or propane for cooking. In the building characteristics tables, this row indicates the number of buildings or floorspace in buildings that use each energy source for cooking.

In the consumption and expenditures tables, this row indicates total consumption in buildings that use each energy source for cooking. For example, in Table C13, the figure in the column "Site Electricity Consumption" and the row "Electricity" should be interpreted: "249 billion kWh of electricity were used in buildings that use electricity for cooking." (It should NOT be interpreted as the consumption of electricity specifically for cooking.)

Refrigeration Equipment—In the 2003 CBECS, the refrigeration questions were changed to include residential-type units and vending machines. As a consequence, the "Any Refrigeration" line includes many more buildings than the line in the 1999 CBECS "Commercial Refrigeration Equipment" row category labeled "Any Equipment." So, the second line in the 2003 table, "Commercial Refrigeration" has been specified to be comparable to the 1999 "Any Equipment" row; it includes only walk-in units and refrigerated cases or cabinets.

Office Equipment—Within this row category, the line "With Flat Screen Monitors" may need some clarification. This line represents the number of buildings in which at least one of their computers has a flat screen (LCD) monitor. For example, in Table B1, the first two lines of this row category should be interpreted as: "There are about 3,081,000 buildings that have at least one computer; there are about 877,000 buildings for which at least one of the computers in the building has a flat screen monitor."

Equipment Usage Reduced When Building Not In Full Use—The figure in the "Office Equipment" line of this row category is much higher than it was in the 1999 CBECS; this is not due to drastic increases in behavior, but instead to differences between the two surveys. In 1999, the question about whether computers and office equipment were turned off when the building was closed was asked only if there were 20 or more computers in the building. In 2003, it was asked of every building with any computers.

Table A1. Summary Table for All Buildings (Including Malls), 2003

	Number of Buildings (thousand)	Total Floorspace (million square feet)	Mean Square Feet per Building (thousand)	Median Square Feet per Building (thousand)
All Buildings	4,859	71,658	14.7	5.0
Building Floorspace (Square Feet)				
1,001 to 5,000	2,586	6,922	2.7	2.4
5,001 to 10,000	948	7,033	7.4	7.2
10,001 to 25,000	810	12,659	15.6	15.0
25,001 to 50,000	261	9,382	36.0	35.0
50,001 to 100,000	147	10,291	70.2	67.0
100,001 to 200,000	74	10,217	138.6	130.0
200,001 to 500,000	26	7,494	287.6	260.0
Over 500,000	8	7,660	937.6	700.0
Principal Building Activity				
Education	386	9,874	25.6	7.0
Food Sales	226	1,255	5.6	2.8
Food Service	297	1,654	5.6	3.5
Health Care	129	3,163	24.6	6.0
Inpatient	8	1,905	241.4	106.0
Outpatient	121	1,258	10.4	6.0
Lodging	142	5,096	35.8	12.5
Mercantile	657	11,192	17.0	6.9
Retail (Other Than Mall)	443	4,317	9.7	4.8
Enclosed and Strip Malls	213	6,875	32.2	12.3
Office	824	12,208	14.8	4.0
Public Assembly	277	3,939	14.2	6.7
Public Order and Safety	71	1,090	15.5	5.0
Religious Worship	370	3,754	10.1	6.0
Service	622	4,050	6.5	2.8
Warehouse and Storage	597	10,078	16.9	5.2
Other	79	1,738	21.9	4.6
Vacant	182	2,567	14.1	3.7
Year Constructed				
Before 1920	333	3,784	11.4	4.9
1920 to 1945	536	6,985	13.0	4.0
1946 to 1959	573	7,262	12.7	4.0
1960 to 1969	600	8,641	14.4	5.0
1970 to 1979	784	12,275	15.6	5.8
1980 to 1989	768	12,468	16.2	4.2
1990 to 1999	917	13,981	15.2	5.0
2000 to 2003	347	6,262	18.1	5.6
Census Region and Division				
Northeast	761	13,995	18.4	5.2
New England	252	3,452	13.7	4.6
Middle Atlantic	509	10,543	20.7	5.9
Midwest	1,305	18,103	13.9	4.3
East North Central	728	12,424	17.1	5.0
West North Central	577	5,680	9.8	4.0
South	1,873	26,739	14.3	5.0
South Atlantic	926	13,999	15.1	5.0
East South Central	360	3,719	10.3	3.6
West South Central	587	9,022	15.4	5.0
West	920	12,820	13.9	4.8
Mountain	316	4,207	13.3	5.0
Pacific	603	8,613	14.3	4.5

CONTINUED

Table A1. Summary Table for All Buildings (Including Malls), 2003

	Number of Buildings (thousand)	Total Floorspace (million square feet)	Mean Square Feet per Building (thousand)	Median Square Feet per Building (thousand)
All Buildings	4,859	71,658	14.7	5.0
Climate Zone: 30-Year Average				
Under 2,000 CDD and --				
More than 7,000 HDD	882	11,529	13.1	4.8
5,500-7,000 HDD	1,229	18,808	15.3	5.0
4,000-5,499 HDD	701	12,503	17.8	4.8
Fewer than 4,000 HDD	1,336	17,630	13.2	4.5
2,000 CDD or More and --				
Fewer than 4,000 HDD	711	11,189	15.7	5.0
Number of Establishments				
One	3,754	45,144	12.0	4.3
2 to 5	762	12,565	16.5	6.2
6 to 10	117	3,358	28.6	17.0
11 to 20	47	3,369	71.8	44.0
More than 20	22	5,060	227.3	75.0
Currently Unoccupied	157	2,161	13.8	2.8

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Note: Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table A2. Census Region, Number of Buildings and Floorspace for All Buildings (Including Malls), 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings	North east	Mid-west	South	West	All Buildings	North-east	Mid-west	South	West
All Buildings	4,859	761	1,305	1,873	920	71,658	13,995	18,103	26,739	12,820
Building Floorspace (Square Feet)										
1,001 to 5,000	2,586	374	728	985	499	6,922	1,059	1,908	2,618	1,337
5,001 to 10,000	948	155	228	386	179	7,033	1,169	1,676	2,844	1,343
10,001 to 25,000	810	138	211	308	152	12,659	2,122	3,317	4,859	2,361
25,001 to 50,000	261	39	75	96	50	9,382	1,388	2,712	3,474	1,808
50,001 to 100,000	147	31	35	58	22	10,291	2,272	2,376	4,059	1,584
100,001 to 200,000	74	15	18	30	10	10,217	2,238	2,486	4,140	1,353
200,001 to 500,000	26	6	8	7	5	7,494	1,781	2,288	2,109	1,316
Over 500,000	8	2	2	3	2	7,660	1,967	1,341	2,635	1,717
Principal Building Activity										
Education	386	31	63	156	136	9,874	1,683	2,541	3,983	1,667
Food Sales	226	40	57	94	Q	1,255	238	320	487	Q
Food Service	297	37	88	127	45	1,654	172	453	764	265
Health Care	129	18	31	48	31	3,163	535	798	1,277	553
Inpatient	8	1	2	4	1	1,905	358	438	838	270
Outpatient	121	17	29	44	30	1,258	177	359	438	283
Lodging	142	27	34	52	30	5,096	1,171	1,144	1,694	1,087
Mercantile	657	111	150	295	101	11,192	1,720	1,904	5,094	2,473
Retail (Other Than Mall)	443	76	111	197	60	4,317	630	880	1,844	963
Enclosed and Strip Malls	213	35	39	98	41	6,875	1,090	1,024	3,251	1,511
Office	824	155	231	250	187	12,208	3,012	2,989	3,782	2,425
Public Assembly	277	63	57	92	65	3,939	1,048	1,012	1,174	706
Public Order and Safety	71	23	20	15	Q	1,090	362	221	373	Q
Religious Worship	370	52	107	158	53	3,754	627	1,115	1,498	515
Service	622	100	221	198	103	4,050	740	1,289	1,358	664
Warehouse and Storage	597	65	160	277	95	10,078	1,523	3,017	3,966	1,572
Other	79	17	31	21	9	1,738	649	316	Q	186
Vacant	182	23	55	88	Q	2,567	517	984	701	Q
Year Constructed										
Before 1920	333	125	139	47	21	3,784	1,412	1,552	525	295
1920 to 1945	536	126	163	155	93	6,985	2,578	2,099	1,365	942
1946 to 1959	573	107	158	169	138	7,262	2,149	2,093	1,874	1,146
1960 to 1969	600	113	138	200	150	8,641	1,858	2,434	2,689	1,660
1970 to 1979	784	80	204	319	182	12,275	1,916	3,543	4,410	2,407
1980 to 1989	768	105	177	382	105	12,468	1,675	2,221	5,834	2,738
1990 to 1999	917	73	235	435	175	13,981	1,544	2,888	7,202	2,347
2000 to 2003	347	32	92	167	56	6,262	863	1,274	2,840	1,286
Climate Zone: 30-Year Average										
Under 2,000 CDD and --										
More than 7,000 HDD	882	209	456	N	218	11,529	2,567	5,910	N	3,052
5,500-7,000 HDD	1,229	350	670	N	209	18,808	5,989	10,584	N	2,234
4,000-5,499 HDD	701	202	Q	289	30	12,503	5,440	1,609	4,736	718
Fewer than 4,000 HDD	1,336	N	N	914	422	17,630	N	N	11,506	6,125
2,000 CDD or More and --										
Fewer than 4,000 HDD	711	N	N	670	41	11,189	N	N	10,497	692

Table A2. Census Region, Number of Buildings and Floorspace for All Buildings (Including Malls), 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings	North east	Mid-west	South	West	All Buildings	North-east	Mid-west	South	West
All Buildings	4,859	761	1,305	1,873	920	71,658	13,995	18,103	26,739	12,820
Number of Establishments										
One	3,754	559	1,047	1,444	704	45,144	8,061	12,359	16,947	7,776
2 to 5	762	149	182	273	158	12,565	2,802	3,116	4,493	2,155
6 to 10	117	25	21	41	30	3,358	792	730	1,212	624
11 to 20	47	8	6	20	12	3,369	884	552	1,342	591
More than 20	22	4	2	11	6	5,060	1,118	453	2,094	1,396
Currently Unoccupied	157	Q	47	84	Q	2,161	Q	892	652	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample.
Note: Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table A3. Census Region and Division, Number of Buildings for All Buildings (Including Malls), 2003

	Number of Buildings (thousand)									
		Northeast		Midwest		South			West	
	All Buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
All Buildings	4,859	252	509	728	577	926	360	587	316	603
Building Floorspace (Square Feet)										
1,001 to 5,000	2,586	134	240	372	356	474	217	294	166	333
5,001 to 10,000	948	49	106	128	100	200	59	127	62	117
10,001 to 25,000	810	46	92	133	78	151	54	103	61	91
25,001 to 50,000	261	10	29	48	27	52	16	28	16	34
50,001 to 100,000	147	8	23	25	10	26	11	21	7	15
100,001 to 200,000	74	3	12	14	5	18	Q	10	3	7
200,001 to 500,000	26	Q	6	6	1	4	Q	3	1	3
Over 500,000	8	Q	2	1	Q	2	Q	Q	Q	1
Principal Building Activity										
Education	386	Q	21	34	29	87	Q	56	39	97
Food Sales	226	Q	Q	43	Q	49	Q	Q	Q	Q
Food Service	297	Q	27	54	34	61	24	42	Q	34
Health Care	129	Q	17	20	11	27	11	10	13	18
Inpatient	8	Q	1	1	Q	Q	Q	1	Q	1
Outpatient	121	Q	Q	19	Q	25	Q	Q	Q	17
Lodging	142	Q	9	15	19	26	13	13	16	14
Mercantile	657	49	62	101	49	158	54	82	38	62
Retail (Other Than Mall)	443	Q	46	69	42	106	42	49	21	39
Enclosed and Strip Malls	213	Q	16	32	Q	52	12	34	18	24
Office	824	47	108	134	97	125	41	84	62	125
Public Assembly	277	Q	29	25	31	44	Q	38	Q	48
Public Order and Safety	71	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	370	Q	41	62	46	77	35	46	Q	33
Service	622	Q	79	95	126	101	51	46	42	61
Warehouse and Storage	597	Q	46	95	66	125	58	93	31	64
Other	79	Q	10	23	Q	Q	Q	Q	Q	Q
Vacant	182	Q	Q	24	Q	35	Q	37	Q	Q
Year Constructed										
Before 1920	333	56	69	82	57	31	Q	Q	Q	Q
1920 to 1945	536	30	96	97	66	53	40	61	Q	76
1946 to 1959	573	Q	79	97	61	88	35	46	Q	106
1960 to 1969	600	Q	79	76	62	111	34	55	64	86
1970 to 1979	784	30	50	119	85	141	73	105	76	106
1980 to 1989	768	37	67	100	77	203	51	128	44	61
1990 to 1999	917	Q	48	111	124	219	83	132	50	125
2000 to 2003	347	Q	21	46	46	80	38	49	22	34
Climate Zone: 30-Year Average										
Under 2,000 CDD and --										
More than 7,000 HDD	882	110	98	205	251	N	N	N	183	Q
5,500-7,000 HDD	1,229	141	209	523	Q	N	N	N	97	Q
4,000-5,499 HDD	701	N	202	N	Q	147	Q	Q	N	30
Fewer than 4,000 HDD	1,336	N	N	N	N	527	Q	140	N	422
2,000 CDD or More and --										
Fewer than 4,000 HDD	711	N	N	N	N	252	Q	379	36	Q

Table A3. Census Region and Division, Number of Buildings for All Buildings (Including Malls), 2003

	Number of Buildings (thousand)									
		Northeast		Midwest		South			West	
	All Buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Number of Establishments										
One	3,754	182	376	571	476	704	308	432	242	462
2 to 5	762	53	96	113	68	145	29	99	52	106
6 to 10	117	Q	13	15	Q	25	Q	12	14	16
11 to 20	47	Q	5	6	Q	11	Q	6	Q	6
More than 20	22	Q	3	Q	Q	7	Q	3	Q	5
Currently Unoccupied	157	Q	Q	22	Q	35	Q	35	Q	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample.
Note: Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table A4. Census Region and Division, Floorspace for All Buildings (Including Malls), 2003

	Total Floorspace (million square feet)									
		Northeast		Midwest		South			West	
	All Buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
All Buildings	71,658	3,452	10,543	12,424	5,680	13,999	3,719	9,022	4,207	8,613
Building Floorspace (Square Feet)										
1,001 to 5,000	6,922	383	676	986	922	1,283	547	788	466	871
5,001 to 10,000	7,033	369	800	939	738	1,468	420	957	465	878
10,001 to 25,000	12,659	674	1,448	2,113	1,204	2,443	861	1,555	933	1,429
25,001 to 50,000	9,382	366	1,022	1,763	949	1,867	545	1,062	568	1,239
50,001 to 100,000	10,291	590	1,682	1,712	664	1,797	749	1,514	492	1,092
100,001 to 200,000	10,217	448	1,790	1,872	614	2,422	Q	1,426	346	1,007
200,001 to 500,000	7,494	Q	1,673	1,847	441	1,148	Q	749	339	977
Over 500,000	7,660	Q	1,451	1,192	Q	1,572	Q	Q	Q	1,119
Principal Building Activity										
Education	9,874	Q	1,384	1,990	552	2,445	341	1,198	640	1,027
Food Sales	1,255	Q	Q	218	Q	223	Q	Q	Q	Q
Food Service	1,654	Q	127	248	206	433	99	232	Q	232
Health Care	3,163	Q	464	551	247	749	219	309	230	323
Inpatient	1,905	Q	310	316	Q	469	Q	235	Q	176
Outpatient	1,258	Q	Q	235	Q	280	Q	Q	Q	147
Lodging	5,096	374	797	548	595	939	368	387	438	649
Mercantile	11,192	699	Q	1,373	531	2,638	678	1,778	742	1,732
Retail (Other Than Mall)	4,317	Q	419	544	337	897	353	594	210	753
Enclosed and Strip Malls	6,875	488	Q	829	Q	1,741	325	1,185	532	979
Office	12,208	578	2,434	2,190	799	1,958	481	1,343	629	1,796
Public Assembly	3,939	Q	769	635	377	440	Q	498	Q	468
Public Order and Safety	1,090	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	3,754	Q	474	720	395	721	310	467	Q	341
Service	4,050	Q	620	775	514	753	307	298	345	319
Warehouse and Storage	10,078	Q	1,112	2,023	994	1,836	390	1,740	506	1,066
Other	1,738	Q	501	248	Q	Q	Q	Q	Q	Q
Vacant	2,567	Q	Q	791	Q	252	Q	350	Q	Q
Year Constructed										
Before 1920	3,784	450	962	999	553	Q	Q	Q	Q	Q
1920 to 1945	6,985	660	1,918	1,603	496	667	300	398	Q	804
1946 to 1959	7,262	Q	1,785	1,519	574	1,113	261	500	255	891
1960 to 1969	8,641	407	1,451	1,568	866	1,488	504	697	615	1,045
1970 to 1979	12,275	493	1,423	2,425	1,117	1,672	874	1,865	1,135	1,272
1980 to 1989	12,468	440	1,235	1,696	524	3,025	540	2,270	743	1,994
1990 to 1999	13,981	243	1,301	1,768	1,121	4,234	842	2,126	698	1,648
2000 to 2003	6,262	Q	467	845	429	1,460	354	1,026	489	797
Climate Zone: 30-Year Average										
Under 2,000 CDD and --										
More than 7,000 HDD	11,529	Q	1,577	3,208	2,702	N	N	N	2,446	Q
5,500-7,000 HDD	18,808	2,463	3,526	9,215	Q	N	N	N	1,181	Q
4,000-5,499 HDD	12,503	N	5,440	N	1,609	3,065	Q	Q	N	718
Fewer than 4,000 HDD	17,630	N	N	N	N	7,126	Q	2,255	N	6,125
2,000 CDD or More and --										
Fewer than 4,000 HDD	11,189	N	N	N	N	3,807	Q	6,258	580	Q

Table A4. Census Region and Division, Floorspace for All Buildings (Including Malls), 2003

	Total Floorspace (million square feet)									
		Northeast		Midwest		South			West	
	All Buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Number of Establishments										
One	45,144	1,784	6,277	8,315	4,044	8,902	2,707	5,339	2,794	4,982
2 to 5	12,565	756	2,046	2,096	1,020	2,448	471	1,574	595	1,560
6 to 10	3,358	Q	548	459	Q	759	Q	359	257	367
11 to 20	3,369	Q	509	501	Q	684	Q	412	Q	414
More than 20	5,060	Q	Q	Q	Q	965	Q	992	Q	1,023
Currently Unoccupied	2,161	Q	Q	756	Q	241	Q	346	Q	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample.
Note: Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table A5. Building Size, Number of Buildings for All Buildings (Including Malls), 2003

	Number of Buildings (thousand)								
		Building Size							
	All Buildings	1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,000 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
All Buildings	4,859	2,586	948	810	261	147	74	26	8
Principal Building Activity									
Education	386	162	56	60	48	39	16	5	Q
Food Sales	226	164	44	Q	Q	Q	Q	N	N
Food Service	297	202	65	23	Q	Q	N	Q	N
Health Care	129	56	38	19	5	5	3	2	1
Inpatient	8	N	N	Q	Q	Q	Q	2	1
Outpatient	121	56	38	19	Q	3	Q	Q	N
Lodging	142	38	21	38	23	11	7	4	Q
Mercantile	657	275	156	155	34	21	12	2	2
Retail (Other Than Mall)	443	241	97	83	14	Q	4	Q	Q
Enclosed and Strip Malls	213	Q	59	72	20	18	8	Q	2
Office	824	503	127	116	43	17	11	5	2
Public Assembly	277	119	67	69	9	7	6	Q	Q
Public Order and Safety	71	37	Q	Q	Q	Q	Q	Q	Q
Religious Worship	370	152	104	83	27	Q	Q	Q	N
Service	622	434	100	66	17	Q	Q	Q	Q
Warehouse and Storage	597	294	110	130	27	21	8	4	Q
Other	79	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	182	108	Q	Q	13	Q	Q	Q	Q
Year Constructed									
Before 1920	333	177	71	55	19	7	Q	Q	Q
1920 to 1945	536	315	111	67	24	9	5	4	1
1946 to 1959	573	335	95	90	27	14	8	2	1
1960 to 1969	600	302	124	104	36	23	8	3	Q
1970 to 1979	784	361	193	141	51	21	12	4	1
1980 to 1989	768	447	119	121	37	25	14	5	2
1990 to 1999	917	483	166	167	44	33	17	4	2
2000 to 2003	347	165	70	64	22	15	8	2	Q
Census Region and Division									
Northeast	761	374	155	138	39	31	15	6	2
New England	252	134	49	46	10	8	3	Q	Q
Middle Atlantic	509	240	106	92	29	23	12	6	2
Midwest	1,305	728	228	211	75	35	18	8	2
East North Central	728	372	128	133	48	25	14	6	1
West North Central	577	356	100	78	27	10	5	1	Q
South	1,873	985	386	308	96	58	30	7	3
South Atlantic	926	474	200	151	52	26	18	4	2
East South Central	360	217	59	54	16	11	Q	Q	Q
West South Central	587	294	127	103	28	21	10	3	Q
West	920	499	179	152	50	22	10	5	2
Mountain	316	166	62	61	16	7	3	1	Q
Pacific	603	333	117	91	34	15	7	3	1
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	882	479	164	157	45	22	10	4	1
5,500-7,000 HDD	1,229	631	238	224	66	39	21	7	2
4,000-5,499 HDD	701	376	142	95	38	28	13	6	2
Fewer than 4,000 HDD	1,336	735	272	203	66	34	19	6	2
2,000 CDD or More and --									
Fewer than 4,000 HDD	711	365	131	130	46	23	11	4	1

Table A5. Building Size, Number of Buildings for All Buildings (Including Malls), 2003

	Number of Buildings (thousand)								
		Building Size							
	All Buildings	1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,000 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
Number of Establishments									
One	3,754	2,131	720	590	163	87	43	15	3
2 to 5	762	338	182	140	54	29	13	5	1
6 to 10	117	Q	Q	51	19	8	6	Q	Q
11 to 20	47	Q	N	13	12	13	5	1	Q
More than 20	22	N	Q	Q	Q	4	4	3	3
Currently Unoccupied	157	100	Q	Q	Q	Q	Q	Q	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample.
Note: Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table A6. Building Size, Floorspace for All Buildings (Including Malls), 2003

	Total Floorspace (million square feet)								
		Building Size							
	All Buildings	1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,000 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
All Buildings	71,658	6,922	7,033	12,659	9,382	10,291	10,217	7,494	7,660
Principal Building Activity									
Education	9,874	409	399	931	1,756	2,690	2,167	1,420	Q
Food Sales	1,255	409	356	Q	Q	Q	Q	N	N
Food Service	1,654	544	442	345	Q	Q	N	Q	N
Health Care	3,163	165	280	313	157	364	395	514	973
Inpatient	1,905	N	N	Q	Q	Q	Q	467	973
Outpatient	1,258	165	280	312	Q	206	Q	Q	N
Lodging	5,096	99	160	631	803	841	930	1,185	Q
Mercantile	11,192	771	1,173	2,409	1,291	1,505	1,677	462	1,905
Retail (Other Than Mall)	4,317	638	725	1,284	578	Q	524	Q	Q
Enclosed and Strip Malls	6,875	Q	448	1,124	713	1,234	1,153	Q	1,752
Office	12,208	1,382	938	1,887	1,506	1,209	1,428	1,493	2,365
Public Assembly	3,939	336	518	1,077	301	474	868	Q	Q
Public Order and Safety	1,090	122	Q	Q	Q	Q	Q	Q	Q
Religious Worship	3,754	416	744	1,235	930	Q	Q	Q	N
Service	4,050	1,034	722	1,021	560	Q	Q	Q	Q
Warehouse and Storage	10,078	895	868	2,064	1,043	1,494	1,162	1,322	Q
Other	1,738	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	2,567	239	Q	Q	471	Q	Q	Q	Q
Year Constructed									
Before 1920	3,784	496	502	804	677	500	Q	Q	Q
1920 to 1945	6,985	797	849	1,037	879	641	704	1,288	790
1946 to 1959	7,262	875	681	1,432	961	954	1,185	593	581
1960 to 1969	8,641	706	888	1,584	1,345	1,562	1,108	991	Q
1970 to 1979	12,275	1,013	1,445	2,190	1,820	1,506	1,646	1,278	1,377
1980 to 1989	12,468	1,185	883	1,906	1,353	1,695	1,952	1,355	2,139
1990 to 1999	13,981	1,335	1,271	2,642	1,571	2,434	2,290	1,015	1,422
2000 to 2003	6,262	515	513	1,065	775	998	1,060	678	Q
Census Region and Division									
Northeast	13,995	1,059	1,169	2,122	1,388	2,272	2,238	1,781	1,967
New England	3,452	383	369	674	366	590	448	Q	Q
Middle Atlantic	10,543	676	800	1,448	1,022	1,682	1,790	1,673	1,451
Midwest	18,103	1,908	1,676	3,317	2,712	2,376	2,486	2,288	1,341
East North Central	12,424	986	939	2,113	1,763	1,712	1,872	1,847	1,192
West North Central	5,680	922	738	1,204	949	664	614	441	Q
South	26,739	2,618	2,844	4,859	3,474	4,059	4,140	2,109	2,635
South Atlantic	13,999	1,283	1,468	2,443	1,867	1,797	2,422	1,148	1,572
East South Central	3,719	547	420	861	545	749	Q	Q	Q
West South Central	9,022	788	957	1,555	1,062	1,514	1,426	749	Q
West	12,820	1,337	1,343	2,361	1,808	1,584	1,353	1,316	1,717
Mountain	4,207	466	465	933	568	492	346	339	Q
Pacific	8,613	871	878	1,429	1,239	1,092	1,007	977	1,119
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	11,529	1,313	1,248	2,406	1,547	1,480	1,311	1,150	1,073
5,500-7,000 HDD	18,808	1,709	1,725	3,506	2,424	2,780	2,889	2,007	1,766
4,000-5,499 HDD	12,503	1,010	1,077	1,498	1,382	2,011	1,881	1,678	1,966
Fewer than 4,000 HDD	17,630	1,915	2,024	3,176	2,381	2,352	2,597	1,612	1,573
2,000 CDD or More and --									
Fewer than 4,000 HDD	11,189	975	959	2,073	1,647	1,668	1,538	1,047	1,282

Table A6. Building Size, Floorspace for All Buildings (Including Malls), 2003

	Total Floorspace (million square feet)								
		Building Size							
	All Buildings	1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,000 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
Number of Establishments									
One	45,144	5,613	5,304	9,098	5,807	6,218	6,102	4,246	2,756
2 to 5	12,565	1,028	1,383	2,259	1,995	1,966	1,755	1,379	800
6 to 10	3,358	Q	Q	839	666	555	743	Q	Q
11 to 20	3,369	Q	N	227	430	890	705	450	Q
More than 20	5,060	N	Q	Q	Q	298	556	741	3,274
Currently Unoccupied	2,161	223	Q	Q	Q	Q	Q	Q	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample.
Note: Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table A7. Number of Establishments in Building, Number of Buildings for All Buildings (Including Malls), 2003

	Number of Buildings (thousand)						
		Number of Establishments in Building					
	All Buildings	One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
All Buildings	4,859	3,754	762	117	47	22	157
Building Floorspace (Square Feet)							
1,001 to 5,000	2,586	2,131	338	Q	Q	N	100
5,001 to 10,000	948	720	182	Q	N	Q	Q
10,001 to 25,000	810	590	140	51	13	Q	Q
25,001 to 50,000	261	163	54	19	12	Q	Q
50,001 to 100,000	147	87	29	8	13	4	Q
100,001 to 200,000	74	43	13	6	5	4	Q
200,001 to 500,000	26	15	5	Q	1	3	Q
Over 500,000	8	3	1	Q	Q	3	Q
Principal Building Activity							
Education	386	360	21	Q	N	N	N
Food Sales	226	203	Q	N	N	Q	N
Food Service	297	270	26	Q	N	N	N
Health Care	129	91	34	Q	Q	Q	N
Inpatient	8	6	1	Q	Q	Q	N
Outpatient	121	84	32	Q	Q	Q	N
Lodging	142	130	12	Q	N	N	N
Mercantile	657	368	187	65	25	12	N
Retail (Other Than Mall)	443	368	68	Q	Q	Q	N
Enclosed and Strip Malls	213	N	119	63	24	8	N
Office	824	536	228	37	14	7	N
Public Assembly	277	237	35	Q	Q	Q	N
Public Order and Safety	71	57	Q	Q	Q	N	N
Religious Worship	370	339	31	N	Q	N	N
Service	622	561	58	Q	Q	N	N
Warehouse and Storage	597	518	74	Q	Q	Q	N
Other	79	63	15	Q	N	Q	N
Vacant	182	Q	Q	N	N	N	157
Year Constructed							
Before 1920	333	248	61	Q	Q	Q	Q
1920 to 1945	536	402	91	Q	Q	Q	35
1946 to 1959	573	449	88	Q	Q	Q	Q
1960 to 1969	600	479	88	12	2	2	Q
1970 to 1979	784	599	119	29	15	4	Q
1980 to 1989	768	545	144	33	10	7	Q
1990 to 1999	917	746	127	19	14	2	Q
2000 to 2003	347	286	44	7	Q	Q	Q
Census Region and Division							
Northeast	761	559	149	25	8	4	Q
New England	252	182	53	Q	Q	Q	Q
Middle Atlantic	509	376	96	13	5	3	Q
Midwest	1,305	1,047	182	21	6	2	47
East North Central	728	571	113	15	6	Q	22
West North Central	577	476	68	Q	Q	Q	Q
South	1,873	1,444	273	41	20	11	84
South Atlantic	926	704	145	25	11	7	35
East South Central	360	308	29	Q	Q	Q	Q
West South Central	587	432	99	12	6	3	35
West	920	704	158	30	12	6	Q
Mountain	316	242	52	14	Q	Q	Q
Pacific	603	462	106	16	6	5	Q

Table A7. Number of Establishments in Building, Number of Buildings for All Buildings (Including Malls), 2003

	Number of Buildings (thousand)						
		Number of Establishments in Building					
	All Buildings	One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	882	667	164	15	4	3	Q
5,500-7,000 HDD	1,229	955	200	32	11	2	28
4,000-5,499 HDD	701	554	100	18	7	Q	Q
Fewer than 4,000 HDD	1,336	1,060	182	25	11	7	51
2,000 CDD or More and --							
Fewer than 4,000 HDD	711	516	116	27	14	5	32

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample.
Note: Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table A8. Number of Establishments in Building, Floorspace for All Buildings (Including Malls), 2003

	Total Floorspace (million square feet)						
		Number of Establishments in Building					
	All Buildings	One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
All Buildings	71,658	45,144	12,565	3,358	3,369	5,060	2,161
Building Floorspace (Square Feet)							
1,001 to 5,000	6,922	5,613	1,028	Q	Q	N	223
5,001 to 10,000	7,033	5,304	1,383	Q	N	Q	Q
10,001 to 25,000	12,659	9,098	2,259	839	227	Q	Q
25,001 to 50,000	9,382	5,807	1,995	666	430	Q	Q
50,001 to 100,000	10,291	6,218	1,966	555	890	298	Q
100,001 to 200,000	10,217	6,102	1,755	743	705	556	Q
200,001 to 500,000	7,494	4,246	1,379	Q	450	741	Q
Over 500,000	7,660	2,756	800	Q	Q	3,274	Q
Principal Building Activity							
Education	9,874	8,714	946	Q	N	N	N
Food Sales	1,255	1,057	Q	N	N	Q	N
Food Service	1,654	1,375	246	Q	N	N	N
Health Care	3,163	2,004	735	Q	Q	Q	N
Inpatient	1,905	1,328	361	Q	Q	Q	N
Outpatient	1,258	676	374	Q	Q	Q	N
Lodging	5,096	4,234	783	Q	N	N	N
Mercantile	11,192	3,410	2,235	1,444	1,460	2,642	N
Retail (Other Than Mall)	4,317	3,410	630	Q	Q	Q	N
Enclosed and Strip Malls	6,875	N	1,605	1,400	1,418	2,451	N
Office	12,208	4,894	2,709	1,144	1,332	2,129	N
Public Assembly	3,939	3,110	677	Q	Q	Q	N
Public Order and Safety	1,090	643	Q	Q	Q	N	N
Religious Worship	3,754	3,272	479	N	Q	N	N
Service	4,050	3,509	465	Q	Q	N	N
Warehouse and Storage	10,078	7,560	2,034	Q	Q	Q	N
Other	1,738	1,188	495	Q	N	Q	N
Vacant	2,567	Q	Q	N	N	N	2,161
Year Constructed							
Before 1920	3,784	2,460	788	Q	Q	Q	Q
1920 to 1945	6,985	4,557	1,075	Q	Q	Q	465
1946 to 1959	7,262	5,229	1,222	Q	Q	Q	Q
1960 to 1969	8,641	5,582	1,638	477	263	Q	Q
1970 to 1979	12,275	7,604	1,832	650	719	1,028	Q
1980 to 1989	12,468	6,287	2,625	752	838	1,823	Q
1990 to 1999	13,981	9,151	2,510	723	710	686	Q
2000 to 2003	6,262	4,273	875	245	Q	Q	Q
Census Region and Division							
Northeast	13,995	8,061	2,802	792	884	1,118	Q
New England	3,452	1,784	756	Q	Q	Q	Q
Middle Atlantic	10,543	6,277	2,046	548	509	Q	Q
Midwest	18,103	12,359	3,116	730	552	453	892
East North Central	12,424	8,315	2,096	459	501	Q	756
West North Central	5,680	4,044	1,020	Q	Q	Q	Q
South	26,739	16,947	4,493	1,212	1,342	2,094	652
South Atlantic	13,999	8,902	2,448	759	684	965	241
East South Central	3,719	2,707	471	Q	Q	Q	Q
West South Central	9,022	5,339	1,574	359	412	992	346
West	12,820	7,776	2,155	624	591	1,396	Q
Mountain	4,207	2,794	595	257	Q	Q	Q
Pacific	8,613	4,982	1,560	367	414	1,023	Q

Table A8. Number of Establishments in Building, Floorspace for All Buildings (Including Malls), 2003

	Total Floorspace (million square feet)						
		Number of Establishments in Building					
	All Buildings	One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	11,529	7,138	2,527	584	Q	538	Q
5,500-7,000 HDD	18,808	12,514	3,217	867	747	641	821
4,000-5,499 HDD	12,503	7,713	2,021	530	793	1,227	Q
Fewer than 4,000 HDD	17,630	11,616	3,008	586	694	1,236	491
2,000 CDD or More and --							
Fewer than 4,000 HDD	11,189	6,163	1,792	791	723	1,417	303

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample.
Note: Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B1. Summary Table: Total and Means of Floorspace, Number of Workers, and Hours of Operation for Non-Mall Buildings, 2003

	Number of Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Mean Square Feet per Building (thousand)	Mean Square Feet per Worker	Mean Hours per Week
All Buildings*	4,645	64,783	72,807	13.9	890	61
Building Floorspace (Square Feet)						
1,001 to 5,000	2,552	6,789	9,936	2.7	683	57
5,001 to 10,000	889	6,585	7,512	7.4	877	61
10,001 to 25,000	738	11,535	10,787	15.6	1,069	67
25,001 to 50,000	241	8,668	8,881	35.9	976	72
50,001 to 100,000	129	9,057	8,432	70.4	1,074	80
100,001 to 200,000	65	9,064	11,632	138.8	779	89
200,001 to 500,000	25	7,176	6,883	289.0	1,043	100
Over 500,000	7	5,908	8,744	896.1	676	115
Principal Building Activity						
Education	386	9,874	12,489	25.6	791	50
Food Sales	226	1,255	1,430	5.6	877	107
Food Service	297	1,654	3,129	5.6	528	86
Health Care	129	3,163	6,317	24.6	501	59
Inpatient	8	1,905	3,716	241.4	513	168
Outpatient	121	1,258	2,600	10.4	484	52
Lodging	142	5,096	2,457	35.8	2,074	167
Retail (Other Than Mall)	443	4,317	3,463	9.7	1,246	59
Office	824	12,208	28,154	14.8	434	55
Public Assembly	277	3,939	2,395	14.2	1,645	50
Public Order and Safety	71	1,090	1,347	15.5	809	103
Religious Worship	370	3,754	1,706	10.1	2,200	32
Service	622	4,050	3,667	6.5	1,105	55
Warehouse and Storage	597	10,078	4,369	16.9	2,306	66
Other	79	1,738	1,819	21.9	956	63
Vacant	182	2,567	Q	14.1	Q	Q
Year Constructed						
Before 1920	330	3,769	3,045	11.4	1,238	48
1920 to 1945	527	6,871	6,122	13.0	1,122	51
1946 to 1959	562	7,045	6,646	12.5	1,060	52
1960 to 1969	579	8,101	8,708	14.0	930	63
1970 to 1979	731	10,772	12,597	14.7	855	65
1980 to 1989	707	10,332	15,032	14.6	687	62
1990 to 1999	876	12,360	16,181	14.1	764	71
2000 to 2003	334	5,533	4,476	16.6	1,236	68
Census Region and Division						
Northeast	726	12,905	14,908	17.8	866	67
New England	233	2,964	3,155	12.7	939	71
Middle Atlantic	493	9,941	11,752	20.1	846	65
Midwest	1,266	17,080	16,373	13.5	1,043	59
East North Central	696	11,595	11,489	16.7	1,009	61
West North Central	571	5,485	4,883	9.6	1,123	58
South	1,775	23,489	27,078	13.2	867	60
South Atlantic	874	12,258	16,757	14.0	732	60
East South Central	348	3,393	3,060	9.8	1,109	61
West South Central	553	7,837	7,261	14.2	1,079	60
West	878	11,310	14,448	12.9	783	62
Mountain	299	3,675	4,281	12.3	858	64
Pacific	580	7,635	10,168	13.2	751	61

Table B1. Summary Table: Total and Means of Floorspace, Number of Workers, and Hours of Operation for Non-Mall Buildings, 2003

	Number of Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Mean Square Feet per Building (thousand)	Mean Square Feet per Worker	Mean Hours per Week
All Buildings*	4,645	64,783	72,807	13.9	890	61
Climate Zone: 30-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	855	10,622	10,305	12.4	1,031	60
5,500-7,000 HDD	1,173	17,335	17,340	14.8	1,000	63
4,000-5,499 HDD	673	11,504	14,007	17.1	821	66
Fewer than 4,000 HDD	1,276	15,739	17,178	12.3	916	57
2,000 CDD or More and --						
Fewer than 4,000 HDD	669	9,584	13,978	14.3	686	62
Number of Floors						
One	3,136	25,981	23,710	8.3	1,096	60
Two	1,031	16,270	16,170	15.8	1,006	62
Three	339	7,501	7,966	22.1	942	63
Four to Nine	128	10,085	15,910	78.7	634	87
Ten or More	12	4,947	9,051	420.0	547	112
Elevators and Escalators (more than one may apply)						
Any Elevators	309	24,617	36,562	79.7	673	78
Number of Elevators						
One	208	8,221	9,079	39.5	905	67
Two to Five	88	10,129	15,894	115.1	637	98
Six or More	13	6,268	11,589	491.5	541	115
Any Escalators	6	2,350	4,048	388.7	580	84
Number of Workers (main shift)						
Fewer than 5	2,653	15,492	4,633	5.8	3,344	56
5 to 9	778	6,166	5,080	7.9	1,214	63
10 to 19	563	7,803	7,305	13.9	1,068	66
20 to 49	398	10,989	11,780	27.6	933	73
50 to 99	147	7,934	9,545	53.8	831	75
100 to 249	77	6,871	11,093	89.7	619	90
250 or More	30	9,528	23,371	320.4	408	99
Weekly Operating Hours						
Fewer than 40	1,002	6,863	3,293	6.9	2,084	13
40 to 48	1,117	11,622	13,765	10.4	844	42
49 to 60	1,062	15,723	19,146	14.8	821	54
61 to 84	591	10,334	11,630	17.5	889	74
85 to 167	400	7,092	10,473	17.7	677	107
Open Continuously	475	13,149	14,499	27.7	907	168
Ownership and Occupancy						
Nongovernment Owned	4,011	49,421	53,339	12.3	927	62
Owner Occupied	1,841	23,591	27,111	12.8	870	60
Nonowner Occupied	2,029	23,914	26,228	11.8	912	69
Unoccupied	141	1,916	N	13.6	N	0
Government Owned	635	15,363	19,468	24.2	789	55
Federal	46	1,956	2,432	42.9	804	66
State	164	3,808	7,204	23.2	529	57
Local	425	9,599	9,832	22.6	976	53
Vacancy Status						
Completely Vacant	157	2,161	N	13.8	N	0
Mostly Vacant	25	406	Q	16.1	Q	49
Partially Vacant	548	12,382	16,997	22.6	729	67
Not At All Vacant	3,915	49,834	55,746	12.7	894	63

Table B1. Summary Table: Total and Means of Floorspace, Number of Workers, and Hours of Operation for Non-Mall Buildings, 2003

	Number of Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Mean Square Feet per Building (thousand)	Mean Square Feet per Worker	Mean Hours per Week
All Buildings*	4,645	64,783	72,807	13.9	890	61
Number of Establishments						
One	3,754	45,144	44,071	12.0	1,024	64
2 to 5	643	10,960	13,001	17.1	843	61
6 to 10	55	1,958	Q	35.7	303	68
11 to 20	23	1,951	3,342	85.7	584	66
More than 20	14	2,609	5,930	181.1	440	71
Currently Unoccupied	157	2,161	N	13.8	N	0
Predominant Exterior Wall Material						
Brick, Stone or Stucco	2,044	32,817	36,770	16.1	892	63
Concrete (Block or Poured)	786	10,832	10,463	13.8	1,035	61
Concrete Panels	131	6,559	10,891	50.2	602	67
Siding or Shingles	779	4,120	4,567	5.3	902	58
Metal Panels	825	7,912	6,235	9.6	1,269	59
Window Glass	17	1,024	1,910	60.1	536	78
Other	47	1,113	1,541	23.8	722	62
No One Major Type	18	406	430	22.9	945	53
Predominant Roof Material						
Built-Up	1,036	21,170	25,828	20.4	820	63
Shingles (Not Wood)	1,325	10,195	10,462	7.7	974	59
Metal Surfacing	1,288	11,944	8,461	9.3	1,412	58
Synthetic or Rubber	511	14,730	20,783	28.8	709	70
Slate or Tile	263	2,462	3,021	9.4	815	60
Wooden Materials	122	887	973	7.3	912	60
Concrete	61	2,231	1,958	36.7	1,139	68
Other	16	598	652	38.1	917	62
No One Major Type	25	565	669	22.7	844	84
Renovations in Buildings Constructed Before 1980 (more than one may apply)						
Any Type of Renovation Since 1980	1,018	17,844	20,481	17.5	871	61
Addition or Annex	256	6,551	6,668	25.6	982	68
Reduction In Floorspace	22	1,012	1,078	46.1	939	78
Cosmetic Improvements	741	13,119	15,890	17.7	826	62
Wall or Roof Replacement	370	8,070	10,121	21.8	797	60
Interior Wall Re-Configuration	411	8,518	11,188	20.7	761	65
HVAC Equipment Upgrade	442	10,768	13,849	24.4	778	64
Lighting Upgrade	455	10,275	12,452	22.6	825	62
Window Replacement	310	6,354	7,462	20.5	851	63
Plumbing System Upgrade	315	7,144	8,764	22.7	815	68
Insulation Upgrade	227	4,015	5,019	17.7	800	56
Other Renovation	19	523	476	27.3	1,097	75
No Renovations Since 1980	1,710	18,714	16,637	10.9	1,125	55
Building Newer than 1980	1,917	28,225	35,689	14.7	791	67

Table B1. Summary Table: Total and Means of Floorspace, Number of Workers, and Hours of Operation for Non-Mall Buildings, 2003

	Number of Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Mean Square Feet per Building (thousand)	Mean Square Feet per Worker	Mean Hours per Week
All Buildings*	4,645	64,783	72,807	13.9	890	61
Energy Sources (more than one may apply)						
Electricity	4,404	63,307	72,708	14.4	871	62
Natural Gas	2,391	43,468	51,956	18.2	837	65
Fuel Oil	451	15,157	19,625	33.6	772	68
District Heat	67	5,443	10,190	81.4	534	79
District Chilled Water	33	2,853	7,189	86.7	397	79
Propane	502	7,076	5,858	14.1	1,208	60
Wood	62	289	262	4.6	1,105	46
Coal	Q	Q	Q	Q	Q	Q
Solar	Q	Q	Q	Q	Q	Q
Other	61	909	1,190	15.0	764	64
Space-Heating Energy Sources (more than one may apply)						
Electricity	1,766	28,600	33,903	16.2	844	66
Natural Gas	2,165	36,959	40,933	17.1	903	62
Fuel Oil	360	5,988	5,386	16.6	1,112	58
District Heat	65	5,198	9,939	79.7	523	78
Propane	372	3,204	3,002	8.6	1,067	55
Wood	59	261	191	4.4	1,367	45
Coal	Q	Q	Q	Q	Q	Q
Solar	Q	Q	Q	Q	Q	Q
Other	41	475	527	11.6	901	61
Primary Space-Heating Energy Source						
Electricity	1,258	15,996	19,392	12.7	825	65
Natural Gas	1,999	32,970	36,773	16.5	897	61
Fuel Oil	282	3,818	2,669	13.5	1,430	58
District Heat	63	4,907	9,729	77.4	504	77
Propane	308	1,955	1,915	6.4	1,021	53
Wood	Q	Q	Q	Q	Q	Q
Coal	Q	Q	Q	Q	Q	Q
Solar	N	N	N	N	N	N
Other	Q	Q	Q	Q	Q	Q
Cooling Energy Sources (more than one may apply)						
Electricity	3,589	54,321	63,221	15.1	859	64
Natural Gas	17	1,018	1,342	58.9	759	72
District Chilled Water	33	2,853	7,189	86.7	397	79
Water-Heating Energy Sources (more than one may apply)						
Electricity	1,910	27,490	32,638	14.4	842	59
Natural Gas	1,445	28,820	35,740	19.9	806	70
Fuel Oil	94	1,880	2,036	19.9	923	81
District Heat	27	3,088	4,193	113.1	736	95
Propane	128	1,422	1,527	11.1	931	80
Cooking Energy Sources (more than one may apply)						
Electricity	410	13,161	16,034	32.1	821	81
Natural Gas	457	15,438	19,011	33.8	812	85
Propane	108	1,460	1,866	13.6	782	77

Table B1. Summary Table: Total and Means of Floorspace, Number of Workers, and Hours of Operation for Non-Mall Buildings, 2003

	Number of Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Mean Square Feet per Building (thousand)	Mean Square Feet per Worker	Mean Hours per Week
All Buildings*	4,645	64,783	72,807	13.9	890	61
Energy End Uses (more than one may apply)						
Buildings with Space Heating	3,982	60,028	70,778	15.1	848	61
Buildings with Cooling	3,625	56,940	70,153	15.7	812	64
Buildings with Water Heating	3,472	56,478	69,224	16.3	816	65
Buildings with Cooking	801	22,237	27,242	27.8	816	81
Buildings with Manufacturing	119	3,138	2,879	26.5	1,090	54
Buildings with Electricity Generation	149	12,821	19,273	85.9	665	99
Percent of Floorspace Heated						
Not Heated	663	4,756	2,029	7.2	2,344	60
1 to 50	523	6,850	4,135	13.1	1,656	56
51 to 99	498	8,107	9,618	16.3	843	64
100	2,962	45,071	57,024	15.2	790	62
Percent of Floorspace Cooled						
Not Cooled	1,020	7,843	2,654	7.7	2,956	52
1 to 50	985	16,598	11,094	16.8	1,496	60
51 to 99	629	13,211	16,510	21.0	800	70
100	2,011	27,132	42,549	13.5	638	63
Percent Lit When Open						
Zero	47	293	Q	6.3	Q	115
1 to 50	929	10,203	4,414	11.0	2,312	64
51 to 99	1,108	18,288	26,635	16.5	687	60
100	2,176	32,789	41,552	15.1	789	64
Building Never Open/ Electricity Not Used	386	3,210	111	8.3	28,892	34
Percent Lit When Closed						
Zero	1,964	17,385	18,080	8.9	962	42
1 to 50	1,882	30,948	37,362	16.4	828	58
51 to 100	136	2,093	2,777	15.4	754	59
Building Never Closed/ Electricity Not Used	664	14,357	14,588	21.6	984	127
Heating Equipment (more than one may apply)						
Heat Pumps	476	8,814	10,754	18.5	820	64
Packaged Heat Pumps	278	5,442	7,472	19.6	728	64
Split-System Heat Pumps	166	2,581	2,769	15.5	932	61
Individual Room Heat Pumps	58	2,691	2,979	46.5	903	84
Furnaces	1,864	19,615	18,616	10.5	1,054	57
Individual Space Heaters	819	12,545	12,878	15.3	974	61
District Heat	65	5,166	9,838	79.7	525	78
Boilers	579	20,423	23,472	35.3	870	70
Packaged Heating Units	953	18,021	22,588	18.9	798	69
Other	205	3,262	3,475	15.9	939	63

Table B1. Summary Table: Total and Means of Floorspace, Number of Workers, and Hours of Operation for Non-Mall Buildings, 2003

	Number of Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Mean Square Feet per Building (thousand)	Mean Square Feet per Worker	Mean Hours per Week
All Buildings*	4,645	64,783	72,807	13.9	890	61
Cooling Equipment (more than one may apply)						
Residential-Type Central Air Conditioners	1,006	11,035	11,438	11.0	965	57
Heat Pumps	492	9,041	10,961	18.4	825	63
Packaged Heat Pumps	288	5,426	7,489	18.9	725	62
Split-System Heat Pumps	174	2,606	2,764	15.0	943	60
Individual Room Heat Pumps	58	2,940	3,262	50.7	901	84
Individual Air Conditioners	742	12,558	11,477	16.9	1,094	66
District Chilled Water	33	2,853	7,189	86.7	397	79
Central Chillers	111	11,636	17,545	105.1	663	81
Packaged Air Conditioning Units	1,613	29,969	35,810	18.6	837	69
Swamp Coolers	122	1,561	1,655	12.8	943	71
Other	40	1,232	1,682	31.1	732	75
Main Equipment Replaced Since 1990 (more than one may apply)						
Heating	1,197	16,403	16,978	13.7	966	61
Cooling	1,356	20,995	24,553	15.5	855	64
Water Heating Equipment						
Centralized System	2,513	34,671	39,948	13.8	868	66
Distributed System	785	11,540	11,842	14.7	974	57
Combination of Centralized and Distributed System	175	10,267	17,434	58.8	589	79
Lighting Equipment Types (more than one may apply)						
Incandescent	2,184	38,528	48,802	17.6	789	66
Standard Fluorescent	3,943	59,688	70,943	15.1	841	62
Compact Fluorescent	941	27,571	36,563	29.3	754	73
High Intensity Discharge	455	20,643	26,080	45.4	792	71
Halogen	565	17,703	22,892	31.3	773	71
Other	8	269	604	31.7	445	111
Refrigeration Equipment (more than one may apply)[a]						
Any Refrigeration	3,176	52,974	65,564	16.7	808	66
Commercial Refrigeration	1,007	26,768	32,287	26.6	829	86
Walk-In Units	666	20,254	25,289	30.4	801	93
Cases or Cabinets	825	20,424	25,417	24.8	804	87
Residential-Type Units	2,370	38,884	47,846	16.4	813	60
Vending Machines	996	35,335	45,904	35.5	770	78
No Refrigeration	1,469	11,809	7,243	8.0	1,630	51
Office Equipment (more than one may apply)						
Computers	3,081	55,627	69,046	18.1	806	65
With Flat Screen Monitors	877	26,417	42,188	30.1	626	68
Dedicated Servers	1,175	36,338	52,509	30.9	692	68
Laser Printers	1,970	33,012	40,085	16.8	824	64
Inkjet Printers	1,420	32,210	43,906	22.7	734	67
FAX Machines	2,715	52,373	66,994	19.3	782	66
Photocopiers	1,939	46,257	61,340	23.9	754	63

Table B1. Summary Table: Total and Means of Floorspace, Number of Workers, and Hours of Operation for Non-Mall Buildings, 2003

	Number of Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Mean Square Feet per Building (thousand)	Mean Square Feet per Worker	Mean Hours per Week
All Buildings*	4,645	64,783	72,807	13.9	890	61
Number of Computers						
None	1,565	9,156	3,761	5.9	2,435	54
1 to 4	1,670	12,395	8,684	7.4	1,427	63
5 to 9	559	7,179	6,010	12.8	1,195	63
10 to 19	370	6,610	6,847	17.9	965	65
20 to 49	255	7,414	9,387	29.1	790	70
50 to 99	110	5,376	6,937	48.9	775	69
100 to 249	79	6,690	8,865	84.3	755	71
250 or More	38	9,963	22,316	264.3	446	89
Number of Dedicated Servers						
None	3,471	28,445	20,298	8.2	1,401	59
1 to 4	1,060	24,116	26,711	22.8	903	67
5 to 9	58	3,864	6,045	67.0	639	83
10 to 19	30	3,027	8,615	100.1	351	84
20 to 49	17	2,583	4,793	150.0	539	77
50 or More	10	2,748	6,345	276.6	433	87
Number of Photocopiers						
None	2,706	18,526	11,467	6.8	1,616	60
One	1,250	15,475	12,549	12.4	1,233	60
2 to 4	549	15,082	17,284	27.5	873	65
5 to 9	85	5,515	10,674	64.7	517	83
10 or More	54	10,185	20,833	187.2	489	80
Energy-Related Space Functions (more than one may apply)						
Commercial Food Preparation	799	22,223	27,242	27.8	816	81
Activities with Large Amounts of Hot Water	567	19,482	21,756	34.4	895	93
Separate Computer Area	553	26,873	37,820	48.6	711	68
HVAC Conservation Features (more than one may apply)						
Variable Air-Volume System	466	19,597	30,768	42.1	637	71
Economizer Cycle	508	21,108	32,317	41.5	653	76
HVAC Maintenance	2,581	51,163	63,597	19.8	804	66
Energy Management and Control System (EMCS)	252	15,630	21,642	62.0	722	69
Window and Interior Lighting Features (more than one may apply)						
Multipaned Windows	2,201	38,910	43,977	17.7	885	65
Tinted Window Glass	1,323	29,887	40,426	22.6	739	63
Reflective Window Glass	308	8,544	12,301	27.8	695	65
External Overhangs or Awnings	1,233	17,242	22,365	14.0	771	66
Skylights or Atriums	331	12,546	14,163	37.9	886	70
Daylighting Sensors	74	2,868	3,775	38.7	760	80
Specular Reflectors	928	26,118	33,030	28.2	791	65
Electronic Ballasts	2,577	46,882	59,003	18.2	795	65
Energy Management and Control System (EMCS) for Lighting	60	4,781	7,098	80.1	674	81

Table B1. Summary Table: Total and Means of Floorspace, Number of Workers, and Hours of Operation for Non-Mall Buildings, 2003

	Number of Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Mean Square Feet per Building (thousand)	Mean Square Feet per Worker	Mean Hours per Week
All Buildings*	4,645	64,783	72,807	13.9	890	61
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]						
Heating	2,878	42,722	49,300	14.8	867	56
Cooling	2,761	43,205	53,990	15.6	800	59
Lighting	3,685	46,987	56,421	12.7	833	52
Office Equipment	1,504	19,397	20,147	12.9	963	51

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B2. Summary Table: Totals and Medians of Floorspace, Number of Workers, and Hours of Operation for Non-Mall Buildings, 2003

	Number of Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Median Square Feet per Building (thousand)	Median Square Feet per Worker	Median Hours per Week	Median Age of Buildings (years)
All Buildings*	4,645	64,783	72,807	4.6	1,000	50	30.5
Building Floorspace (Square Feet)							
1,001 to 5,000	2,552	6,789	9,936	2.4	750	48	30.5
5,001 to 10,000	889	6,585	7,512	7.2	1,300	50	30.5
10,001 to 25,000	738	11,535	10,787	15.0	1,611	55	28.5
25,001 to 50,000	241	8,668	8,881	35.0	1,364	60	30.5
50,001 to 100,000	129	9,057	8,432	67.0	1,500	60	25.5
100,001 to 200,000	65	9,064	11,632	130.0	1,457	75	24.5
200,001 to 500,000	25	7,176	6,883	260.0	1,750	85	31.5
Over 500,000	7	5,908	8,744	700.0	785	144	23.5
Principal Building Activity							
Education	386	9,874	12,489	7.0	854	45	31.5
Food Sales	226	1,255	1,430	2.8	1,094	107	30.5
Food Service	297	1,654	3,129	3.5	550	84	28.5
Health Care	129	3,163	6,317	6.0	540	45	23.5
Inpatient	8	1,905	3,716	106.0	530	168	31.5
Outpatient	121	1,258	2,600	6.0	540	45	23.5
Lodging	142	5,096	2,457	12.5	2,633	168	30.5
Retail (Other Than Mall)	443	4,317	3,463	4.8	1,250	54	35.5
Office	824	12,208	28,154	4.0	525	46	28.5
Public Assembly	277	3,939	2,395	6.7	2,050	42	35.5
Public Order and Safety	71	1,090	1,347	5.0	825	168	16.5
Religious Worship	370	3,754	1,706	6.0	2,400	20	43.5
Service	622	4,050	3,667	2.8	1,160	50	29.5
Warehouse and Storage	597	10,078	4,369	5.2	1,700	50	17.5
Other	79	1,738	1,819	4.6	1,200	48	32.5
Vacant	182	2,567	64	3.7	6,625	0	43.5
Year Constructed							
Before 1920	330	3,769	3,045	5.0	1,225	45	105.5
1920 to 1945	527	6,871	6,122	4.0	1,167	48	73.5
1946 to 1959	562	7,045	6,646	4.0	1,120	45	51.5
1960 to 1969	579	8,101	8,708	5.0	986	52	39.5
1970 to 1979	731	10,772	12,597	5.4	1,060	50	29.5
1980 to 1989	707	10,332	15,032	3.7	825	50	19.5
1990 to 1999	876	12,360	16,181	4.8	971	54	7.5
2000 to 2003	334	5,533	4,476	5.2	1,150	54	2.5
Census Region and Division							
Northeast	726	12,905	14,908	5.0	833	56	43.5
New England	233	2,964	3,155	4.5	889	56	38.5
Middle Atlantic	493	9,941	11,752	5.5	800	55	43.5
Midwest	1,266	17,080	16,373	4.1	1,078	50	32.5
East North Central	696	11,595	11,489	4.8	1,000	50	33.5
West North Central	571	5,485	4,883	3.6	1,150	48	28.5
South	1,775	23,489	27,078	4.8	1,060	50	23.5
South Atlantic	874	12,258	16,757	5.0	1,000	50	21.5
East South Central	348	3,393	3,060	3.6	1,200	49	26.5
West South Central	553	7,837	7,261	5.0	1,100	50	23.5
West	878	11,310	14,448	4.4	970	50	32.5
Mountain	299	3,675	4,281	4.8	1,000	50	30.5
Pacific	580	7,635	10,168	4.1	917	50	32.5

Table B2. Summary Table: Totals and Medians of Floorspace, Number of Workers, and Hours of Operation for Non-Mall Buildings, 2003

	Number of Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Median Square Feet per Building (thousand)	Median Square Feet per Worker	Median Hours per Week	Median Age of Buildings (years)
All Buildings*	4,645	64,783	72,807	4.6	1,000	50	30.5
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
- More than 7,000 HDD	855	10,622	10,305	4.7	1,000	50	33.5
- 5,500-7,000 HDD	1,173	17,335	17,340	4.8	1,065	50	34.5
- 4,000-5,499 HDD	673	11,504	14,007	4.5	900	50	33.5
- Fewer than 4,000 HDD	1,276	15,739	17,178	4.1	1,025	48	28.5
2,000 CDD or More and --							
- Fewer than 4,000 HDD	669	9,584	13,978	5.0	1,000	50	20.5
Number of Floors							
One	3,136	25,981	23,710	3.6	1,000	50	25.5
Two	1,031	16,270	16,170	7.1	1,013	50	38.5
Three	339	7,501	7,966	8.3	1,000	52	57.5
Four to Nine	128	10,085	15,910	41.0	1,080	64	63.5
Ten or More	12	4,947	9,051	255.0	667	95	31.5
Elevators and Escalators (more than one may apply)							
Any Elevators	309	24,617	36,562	38.5	906	60	30.5
Number of Elevators							
One	208	8,221	9,079	26.0	952	55	33.5
Two to Five	88	10,129	15,894	89.0	906	80	25.5
Six or More	13	6,268	11,589	360.0	650	168	24.5
Any Escalators	6	2,350	4,048	190.0	1,000	65	34.5
Number of Workers (main shift)							
Fewer than 5	2,653	15,492	4,633	3.0	1,550	45	31.5
5 to 9	778	6,166	5,080	4.8	717	50	31.5
10 to 19	563	7,803	7,305	7.7	600	55	27.5
20 to 49	398	10,989	11,780	15.5	575	60	28.5
50 to 99	147	7,934	9,545	36.0	580	60	26.5
100 to 249	77	6,871	11,093	67.0	450	68	25.5
250 or More	30	9,528	23,371	180.0	381	72	21.5
Weekly Operating Hours							
Fewer than 40	1,002	6,863	3,293	3.1	1,500	10	36.5
40 to 48	1,117	11,622	13,765	4.5	850	40	30.5
49 to 60	1,062	15,723	19,146	5.0	900	55	30.5
61 to 84	591	10,334	11,630	6.3	1,029	72	31.5
85 to 167	400	7,092	10,473	5.0	880	105	23.5
Open Continuously	475	13,149	14,499	5.7	1,250	168	20.5
Ownership and Occupancy							
Nongovernment Owned	4,011	49,421	53,339	4.5	1,000	50	29.5
Owner Occupied	1,841	23,591	27,111	5.0	1,000	50	31.5
Nonowner Occupied	2,029	23,914	26,228	4.0	1,000	55	27.5
Unoccupied	141	1,916	0	3.7	N	0	43.5
Government Owned	635	15,363	19,468	6.2	975	45	31.5
Federal	46	1,956	2,432	6.6	900	60	34.5
State	164	3,808	7,204	5.5	808	45	30.5
Local	425	9,599	9,832	6.2	1,050	45	31.5
Vacancy Status							
Completely Vacant	157	2,161	0	2.8	N	0	43.5
Mostly Vacant	25	406	64	11.3	6,625	20	38.5
Partially Vacant	548	12,382	16,997	5.7	1,053	50	28.5
Not At All Vacant	3,915	49,834	55,746	4.5	1,000	50	29.5

Table B2. Summary Table: Totals and Medians of Floorspace, Number of Workers, and Hours of Operation for Non-Mall Buildings, 2003

	Number of Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Median Square Feet per Building (thousand)	Median Square Feet per Worker	Median Hours per Week	Median Age of Buildings (years)
All Buildings*	4,645	64,783	72,807	4.6	1,000	50	30.5
Number of Establishments							
One	3,754	45,144	44,071	4.3	1,075	50	29.5
2 to 5	643	10,960	13,001	5.4	825	50	31.5
6 to 10	55	1,958	Q	20.0	586	60	28.5
11 to 20	23	1,951	3,342	34.0	614	55	19.5
More than 20	14	2,609	5,930	49.5	450	55	31.5
Currently Unoccupied	157	2,161	0	2.8	N	0	43.5
Predominant Exterior Wall Material							
Brick, Stone or Stucco	2,044	32,817	36,770	5.5	930	50	36.5
Concrete (Block or Poured)	786	10,832	10,463	4.0	1,025	50	34.5
Concrete Panels	131	6,559	10,891	12.8	950	55	21.5
Siding or Shingles	779	4,120	4,567	2.6	775	49	30.5
Metal Panels	825	7,912	6,235	4.7	1,500	49	17.5
Window Glass	17	1,024	1,910	10.0	833	60	28.5
Other	47	1,113	1,541	3.6	1,333	50	32.5
No One Major Type	18	406	430	8.5	1,025	50	22.5
Predominant Roof Material							
Built-Up	1,036	21,170	25,828	5.6	833	54	36.5
Shingles (Not Wood)	1,325	10,195	10,462	3.9	1,000	48	33.5
Metal Surfacing	1,288	11,944	8,461	4.5	1,400	50	18.5
Synthetic or Rubber	511	14,730	20,783	8.0	833	60	38.5
Slate or Tile	263	2,462	3,021	4.0	750	50	30.5
Wooden Materials	122	887	973	2.5	750	45	38.5
Concrete	61	2,231	1,958	6.0	573	58	35.5
Other	16	598	652	14.5	878	51	21.5
No One Major Type	25	565	669	8.0	857	70	38.5
Renovations in Buildings Constructed Before 1980 (more than one may apply)							
Any Type of Renovation Since 1980	1,018	17,844	20,481	5.4	1,000	50	48.5
Addition or Annex	256	6,551	6,668	6.4	1,000	55	41.5
Reduction In Floorspace	22	1,012	1,078	23.8	1,333	70	51.5
Cosmetic Improvements	741	13,119	15,890	5.2	1,000	50	50.5
Wall or Roof Replacement	370	8,070	10,121	6.1	1,050	50	48.5
Interior Wall Re-Configuration	411	8,518	11,188	5.8	867	50	48.5
HVAC Equipment Upgrade	442	10,768	13,849	8.0	975	51	49.5
Lighting Upgrade	455	10,275	12,452	7.8	933	50	50.5
Window Replacement	310	6,354	7,462	6.5	938	50	51.5
Plumbing System Upgrade	315	7,144	8,764	7.5	984	55	53.5
Insulation Upgrade	227	4,015	5,019	4.5	950	47	53.5
Other Renovation	19	523	476	10.5	1,550	75	66.5
No Renovations Since 1980	1,710	18,714	16,637	4.3	1,133	48	43.5
Building Newer than 1980	1,917	28,225	35,689	4.5	920	50	10.5

Table B2. Summary Table: Totals and Medians of Floorspace, Number of Workers, and Hours of Operation for Non-Mall Buildings, 2003

	Number of Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Median Square Feet per Building (thousand)	Median Square Feet per Worker	Median Hours per Week	Median Age of Buildings (years)
All Buildings*	4,645	64,783	72,807	4.6	1,000	50	30.5
Energy Sources (more than one may apply)							
Electricity	4,404	63,307	72,708	4.8	1,000	50	30.5
Natural Gas	2,391	43,468	51,956	5.9	960	54	33.5
Fuel Oil	451	15,157	19,625	5.6	1,150	50	38.5
District Heat	67	5,443	10,190	26.5	950	60	41.5
District Chilled Water	33	2,853	7,189	38.0	833	70	28.5
Propane	502	7,076	5,858	4.1	1,175	50	26.5
Wood	62	289	262	2.4	1,500	40	35.5
Coal	Q	Q	Q	3.7	1,159	50	26.5
Solar	Q	Q	Q	2.4	2,400	112	18.5
Other	61	909	1,190	7.0	1,200	50	29.5
Space-Heating Energy Sources (more than one may apply)							
Electricity	1,766	28,600	33,903	5.0	900	50	25.5
Natural Gas	2,165	36,959	40,933	5.8	971	50	33.5
Fuel Oil	360	5,988	5,386	4.8	1,200	49	45.5
District Heat	65	5,198	9,939	25.0	950	60	41.5
Propane	372	3,204	3,002	3.5	1,200	45	23.5
Wood	59	261	191	2.4	1,500	40	35.5
Coal	Q	Q	Q	3.7	1,167	50	26.5
Solar	Q	Q	Q	112.0	320	55	37.5
Other	41	475	527	6.0	1,344	50	27.5
Primary Space-Heating Energy Source							
Electricity	1,258	15,996	19,392	4.3	890	50	23.5
Natural Gas	1,999	32,970	36,773	5.6	950	50	34.5
Fuel Oil	282	3,818	2,669	4.0	1,200	48	48.5
District Heat	63	4,907	9,729	25.0	917	60	41.5
Propane	308	1,955	1,915	3.3	1,125	45	23.5
Wood	Q	Q	Q	2.2	1,500	40	35.5
Coal	Q	Q	Q	2.5	1,100	44	27.5
Solar	N	N	N	N	N	N	N
Other	Q	Q	Q	4	1,667	45	28
Cooling Energy Sources (more than one may apply)							
Electricity	3,589	54,321	63,221	5.0	933	50	29.5
Natural Gas	17	1,018	1,342	12.8	756	60	25.5
District Chilled Water	33	2,853	7,189	38.0	833	70	28.5
Water-Heating Energy Sources (more than one may apply)							
Electricity	1,910	27,490	32,638	5.0	975	50	27.5
Natural Gas	1,445	28,820	35,740	6.7	938	56	33.5
Fuel Oil	94	1,880	2,036	5.5	1,040	63	47.5
District Heat	27	3,088	4,193	39.5	725	78	39.5
Propane	128	1,422	1,527	5.0	875	66	32.5
Cooking Energy Sources (more than one may apply)							
Electricity	410	13,161	16,034	7.0	867	72	29.5
Natural Gas	457	15,438	19,011	7.0	833	77	33.5
Propane	108	1,460	1,866	4.1	717	77	30.5

Table B2. Summary Table: Totals and Medians of Floorspace, Number of Workers, and Hours of Operation for Non-Mall Buildings, 2003

	Number of Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Median Square Feet per Building (thousand)	Median Square Feet per Worker	Median Hours per Week	Median Age of Buildings (years)
All Buildings*	4,645	64,783	72,807	4.6	1,000	50	30.5
Energy End Uses (more than one may apply)							
Buildings with Space Heating	3,982	60,028	70,778	5.0	980	50	30.5
Buildings with Cooling	3,625	56,940	70,153	5.0	932	50	29.5
Buildings with Water Heating	3,472	56,478	69,224	5.1	938	50	30.5
Buildings with Cooking	801	22,237	27,242	6.4	833	72	31.5
Buildings with Manufacturing	119	3,138	2,879	8.0	1,143	50	30.5
Buildings with Electricity Generation	149	12,821	19,273	30.0	843	78	23.5
Percent of Floorspace Heated							
Not Heated	663	4,756	2,029	3.2	1,250	49	23.5
1 to 50	523	6,850	4,135	5.0	1,500	50	29.5
51 to 99	498	8,107	9,618	5.0	933	54	33.5
100	2,962	45,071	57,024	4.8	889	50	30.5
Percent of Floorspace Cooled							
Not Cooled	1,020	7,843	2,654	3.2	1,500	42	33.5
1 to 50	985	16,598	11,094	6.9	1,500	50	32.5
51 to 99	629	13,211	16,510	6.1	900	56	31.5
100	2,011	27,132	42,549	4.2	730	50	27.5
Percent Lit When Open							
Zero	47	293	95	3.6	1,700	168	9.5
1 to 50	929	10,203	4,414	4.6	1,800	50	36.5
51 to 99	1,108	18,288	26,635	5.6	900	50	30.5
100	2,176	32,789	41,552	4.8	800	50	28.5
Building Never Open/ Electricity Not Used	386	3,210	111	3.2	1,750	0	28.5
Percent Lit When Closed							
Zero	1,964	17,385	18,080	3.6	1,114	44	30.5
1 to 50	1,882	30,948	37,362	5.5	889	53	31.5
51 to 100	136	2,093	2,777	4.1	775	54	28.5
Building Never Closed/ Electricity Not Used	664	14,357	14,588	4.8	1,450	168	20.5
Heating Equipment (more than one may apply)							
Heat Pumps	476	8,814	10,754	5.0	857	50	21.5
Packaged Heat Pumps	278	5,442	7,472	5.0	860	50	23.5
Split-System Heat Pumps	166	2,581	2,769	4.7	900	50	19.5
Individual Room Heat Pumps	58	2,691	2,979	18.3	953	55	31.5
Furnaces	1,864	19,615	18,616	4.6	1,025	50	33.5
Individual Space Heaters	819	12,545	12,878	5.0	1,000	50	32.5
District Heat	65	5,166	9,838	23.3	957	60	41.5
Boilers	579	20,423	23,472	11.5	1,068	55	46.5
Packaged Heating Units	953	18,021	22,588	6.0	800	54	23.5
Other	205	3,262	3,475	4.2	1,250	50	27.5

Table B2. Summary Table: Totals and Medians of Floorspace, Number of Workers, and Hours of Operation for Non-Mall Buildings, 2003

	Number of Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Median Square Feet per Building (thousand)	Median Square Feet per Worker	Median Hours per Week	Median Age of Buildings (years)
All Buildings*	4,645	64,783	72,807	4.6	1,000	50	30.5
Cooling Equipment (more than one may apply)							
Residential-Type Central Air Conditioners	1,006	11,035	11,438	4.2	900	50	30.5
Heat Pumps	492	9,041	10,961	5.0	867	50	21.5
Packaged Heat Pumps	288	5,426	7,489	5.0	867	50	22.5
Split-System Heat Pumps	174	2,606	2,764	4.0	1,000	50	19.5
Individual Room Heat Pumps	58	2,940	3,262	18.3	940	55	30.5
Individual Air Conditioners	742	12,558	11,477	5.0	1,158	50	40.5
District Chilled Water	33	2,853	7,189	38.0	833	70	28.5
Central Chillers	111	11,636	17,545	48.0	889	60	30.5
Packaged Air Conditioning Units	1,613	29,969	35,810	6.5	880	55	28.5
Swamp Coolers	122	1,561	1,655	5.8	1,273	52	30.5
Other	40	1,232	1,682	15.0	875	60	28.5
Main Equipment Replaced Since 1990 (more than one may apply)							
Heating	1,197	16,403	16,978	5.0	1,050	50	38.5
Cooling	1,356	20,995	24,553	5.5	968	50	39.5
Water Heating Equipment							
Centralized System	2,513	34,671	39,948	5.0	900	53	29.5
Distributed System	785	11,540	11,842	5.0	1,018	48	31.5
Combination of Centralized and Distributed System	175	10,267	17,434	23.3	958	60	28.5
Lighting Equipment Types (more than one may apply)							
Incandescent	2,184	38,528	48,802	5.2	1,000	51	34.5
Standard Fluorescent	3,943	59,688	70,943	5.0	1,000	50	30.5
Compact Fluorescent	941	27,571	36,563	8.0	850	58	29.5
High Intensity Discharge	455	20,643	26,080	14.0	1,214	60	25.5
Halogen	565	17,703	22,892	8.5	800	56	25.5
Other	8	269	604	2.9	375	119	20.5
Refrigeration Equipment (more than one may apply)[a]							
Any Refrigeration	3,176	52,974	65,564	5.0	933	54	30.5
Commercial Refrigeration	1,007	26,768	32,287	5.5	900	80	30.5
Walk-In Units	666	20,254	25,289	5.1	833	84	28.5
Cases or Cabinets	825	20,424	25,417	5.0	900	80	31.5
Residential-Type Units	2,370	38,884	47,846	5.3	938	50	30.5
Vending Machines	996	35,335	45,904	12.0	1,000	60	28.5
No Refrigeration	1,469	11,809	7,243	3.6	1,200	42	30.5
Office Equipment (more than one may apply)							
Computers	3,081	55,627	69,046	6.0	896	50	28.5
With Flat Screen Monitors	877	26,417	42,188	8.3	700	53	27.5
Dedicated Servers	1,175	36,338	52,509	10.0	692	55	26.5
Laser Printers	1,970	33,012	40,085	6.0	960	50	30.5
Inkjet Printers	1,420	32,210	43,906	7.1	781	51	27.5
FAX Machines	2,715	52,373	66,994	6.0	833	52	29.5
Photocopiers	1,939	46,257	61,340	8.0	808	50	29.5

Table B2. Summary Table: Totals and Medians of Floorspace, Number of Workers, and Hours of Operation for Non-Mall Buildings, 2003

	Number of Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Median Square Feet per Building (thousand)	Median Square Feet per Worker	Median Hours per Week	Median Age of Buildings (years)
All Buildings*	4,645	64,783	72,807	4.6	1,000	50	30.5
Number of Computers							
None	1,565	9,156	3,761	2.8	1,333	42	32.5
1 to 4	1,670	12,395	8,684	4.0	1,200	50	30.5
5 to 9	559	7,179	6,010	6.1	750	50	27.5
10 to 19	370	6,610	6,847	8.3	650	50	25.5
20 to 49	255	7,414	9,387	15.5	596	55	28.5
50 to 99	110	5,376	6,937	30.0	632	55	28.5
100 to 249	79	6,690	8,865	65.0	738	60	27.5
250 or More	38	9,963	22,316	158.0	571	70	24.5
Number of Dedicated Servers							
None	3,471	28,445	20,298	3.6	1,200	50	31.5
1 to 4	1,060	24,116	26,711	8.9	738	54	26.5
5 to 9	58	3,864	6,045	30.0	538	60	20.5
10 to 19	30	3,027	8,615	45.0	375	65	21.5
20 to 49	17	2,583	4,793	52.0	433	60	24.5
50 or More	10	2,748	6,345	100.0	278	60	38.5
Number of Photocopiers							
None	2,706	18,526	11,467	3.2	1,200	50	30.5
One	1,250	15,475	12,549	6.0	988	50	30.5
2 to 4	549	15,082	17,284	12.0	675	54	28.5
5 to 9	85	5,515	10,674	33.0	520	60	26.5
10 or More	54	10,185	20,833	92.0	443	60	24.5
Energy-Related Space Functions (more than one may apply)							
Commercial Food Preparation	799	22,223	27,242	6.5	833	72	31.5
Activities with Large Amounts of Hot Water	567	19,482	21,756	10.0	1,125	76	31.5
Separate Computer Area	553	26,873	37,820	16.0	750	54	26.5
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	466	19,597	30,768	11.0	740	58	21.5
Economizer Cycle	508	21,108	32,317	11.0	794	60	23.5
HVAC Maintenance	2,581	51,163	63,597	6.0	900	52	28.5
Energy Management and Control System (EMCS)	252	15,630	21,642	23.8	880	60	20.5
Window and Interior Lighting Features (more than one may apply)							
Multipaned Windows	2,201	38,910	43,977	5.6	975	50	25.5
Tinted Window Glass	1,323	29,887	40,426	6.8	953	53	25.5
Reflective Window Glass	308	8,544	12,301	6.0	867	50	23.5
External Overhangs or Awnings	1,233	17,242	22,365	5.0	933	54	30.5
Skylights or Atriums	331	12,546	14,163	9.9	1,333	56	24.5
Daylighting Sensors	74	2,868	3,775	8.2	1,025	60	25.5
Specular Reflectors	928	26,118	33,030	7.0	900	50	27.5
Electronic Ballasts	2,577	46,882	59,003	5.2	1,000	50	28.5
Energy Management and Control System (EMCS) for Lighting	60	4,781	7,098	25.0	833	65	14.5

Table B2. Summary Table: Totals and Medians of Floorspace, Number of Workers, and Hours of Operation for Non-Mall Buildings, 2003

	Number of Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Median Square Feet per Building (thousand)	Median Square Feet per Worker	Median Hours per Week	Median Age of Buildings (years)
All Buildings*	4,645	64,783	72,807	4.6	1,000	50	30.5
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]							
Heating	2,878	42,722	49,300	5.0	980	50	31.5
Cooling	2,761	43,205	53,990	5.0	920	50	30.5
Lighting	3,685	46,987	56,421	4.8	975	50	31.5
Office Equipment	1,504	19,397	20,147	5.0	975	48	30.5

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B3. Census Region, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings*	North-east	Mid-west	South	West	All Buildings*	North-east	Mid-west	South	West
All Buildings*	4,645	726	1,266	1,775	878	64,783	12,905	17,080	23,489	11,310
Building Floorspace (Square Feet)										
1,001 to 5,000	2,552	364	725	965	498	6,789	1,025	1,895	2,533	1,336
5,001 to 10,000	889	149	213	361	165	6,585	1,123	1,565	2,658	1,239
10,001 to 25,000	738	127	198	278	135	11,535	1,972	3,098	4,378	2,087
25,001 to 50,000	241	36	71	88	46	8,668	1,292	2,567	3,168	1,643
50,001 to 100,000	129	27	34	49	19	9,057	2,040	2,260	3,435	1,322
100,001 to 200,000	65	15	17	25	8	9,064	2,117	2,296	3,475	1,177
200,001 to 500,000	25	6	8	7	5	7,176	1,781	2,196	1,914	1,286
Over 500,000	7	2	1	2	2	5,908	1,556	1,203	1,928	1,221
Principal Building Activity										
Education	386	31	63	156	136	9,874	1,683	2,541	3,983	1,667
Food Sales	226	40	57	94	Q	1,255	238	320	487	Q
Food Service	297	37	88	127	45	1,654	172	453	764	265
Health Care	129	18	31	48	31	3,163	535	798	1,277	553
Inpatient	8	1	2	4	1	1,905	358	438	838	270
Outpatient	121	17	29	44	30	1,258	177	359	438	283
Lodging	142	27	34	52	30	5,096	1,171	1,144	1,694	1,087
Retail (Other Than Mall)	443	76	111	197	60	4,317	630	880	1,844	963
Office	824	155	231	250	187	12,208	3,012	2,989	3,782	2,425
Public Assembly	277	63	57	92	65	3,939	1,048	1,012	1,174	706
Public Order and Safety	71	23	20	15	Q	1,090	362	221	373	Q
Religious Worship	370	52	107	158	53	3,754	627	1,115	1,498	515
Service	622	100	221	198	103	4,050	740	1,289	1,358	664
Warehouse and Storage	597	65	160	277	95	10,078	1,523	3,017	3,966	1,572
Other	79	17	31	21	9	1,738	649	316	Q	186
Vacant	182	23	55	88	Q	2,567	517	984	701	Q
Year Constructed										
Before 1920	330	122	139	47	21	3,769	1,406	1,552	516	295
1920 to 1945	527	121	163	152	91	6,871	2,504	2,099	1,348	920
1946 to 1959	562	105	157	161	138	7,045	2,094	2,027	1,795	1,128
1960 to 1969	579	108	131	192	148	8,101	1,737	2,229	2,538	1,597
1970 to 1979	731	71	196	297	167	10,772	1,723	3,237	3,726	2,086
1980 to 1989	707	97	163	351	95	10,332	1,374	1,949	4,768	2,241
1990 to 1999	876	69	228	411	168	12,360	1,370	2,746	6,241	2,004
2000 to 2003	334	31	90	163	51	5,533	698	1,240	2,557	1,038
Climate Zone: 30-Year Average										
Under 2,000 CDD and --										
More than 7,000 HDD	855	204	445	N	206	10,622	2,416	5,615	N	2,591
5,500-7,000 HDD	1,173	329	641	N	202	17,335	5,398	9,867	N	2,070
4,000-5,499 HDD	673	193	Q	273	28	11,504	5,092	1,597	4,122	693
Fewer than 4,000 HDD	1,276	N	N	870	406	15,739	N	N	10,338	5,401
2,000 CDD or More and --										
Fewer than 4,000 HDD	669	N	N	633	36	9,584	N	N	9,029	555
Number of Floors										
One	3,136	312	801	1,381	642	25,981	3,151	6,104	11,757	4,969
Two	1,031	230	328	289	183	16,270	3,029	5,177	4,946	3,118
Three	339	130	107	68	35	7,501	2,083	2,584	1,938	896
Four to Nine	128	50	29	33	16	10,085	3,003	2,660	3,094	1,328
Ten or More	12	4	2	4	3	4,947	1,640	555	1,754	999

Table B3. Census Region, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings*	North-east	Mid-west	South	West	All Buildings*	North-east	Mid-west	South	West
All Buildings*	4,645	726	1,266	1,775	878	64,783	12,905	17,080	23,489	11,310
Elevators and Escalators (more than one may apply)										
Any Elevators	309	71	107	91	41	24,617	6,137	6,677	7,949	3,855
Number of Elevators										
One	208	45	82	58	24	8,221	1,585	3,084	2,475	1,077
Two to Five	88	22	23	28	14	10,129	2,971	2,704	3,094	1,360
Six or More	13	4	2	4	3	6,268	1,581	889	2,380	1,418
Any Escalators	6	2	Q	2	Q	2,350	541	Q	1,002	Q
Number of Workers (main shift)										
Fewer than 5	2,653	363	787	1,033	469	15,492	2,376	4,958	5,670	2,489
5 to 9	778	137	173	317	151	6,166	1,085	1,463	2,595	1,023
10 to 19	563	110	145	200	108	7,803	1,872	2,081	2,741	1,109
20 to 49	398	66	102	136	94	10,989	2,314	2,856	3,883	1,935
50 to 99	147	27	37	50	33	7,934	1,598	2,311	2,654	1,370
100 to 249	77	16	15	28	18	6,871	1,331	1,609	2,534	1,397
250 or More	30	7	6	10	6	9,528	2,329	1,800	3,413	1,986
Weekly Operating Hours										
Fewer than 40	1,002	112	309	410	172	6,863	923	2,300	2,544	1,096
40 to 48	1,117	158	283	438	238	11,622	2,111	2,783	4,567	2,161
49 to 60	1,062	184	289	378	210	15,723	3,098	4,614	5,556	2,455
61 to 84	591	114	155	215	107	10,334	2,048	2,583	3,754	1,950
85 to 167	400	73	108	155	63	7,092	1,317	2,008	2,459	1,308
Open Continuously	475	86	123	178	88	13,149	3,407	2,793	4,608	2,340
Ownership and Occupancy										
Nongovernment Owned	4,011	642	1,118	1,563	689	49,421	10,389	12,470	17,826	8,736
Owner Occupied	1,841	365	557	598	321	23,591	5,904	6,171	7,869	3,648
Nonowner Occupied	2,029	261	518	888	362	23,914	4,204	5,539	9,358	4,813
Unoccupied	141	Q	43	77	Q	1,916	Q	760	600	Q
Government Owned	635	84	149	212	190	15,363	2,517	4,610	5,662	2,574
Federal	46	Q	11	6	Q	1,956	Q	Q	521	Q
State	164	25	24	50	66	3,808	599	764	1,718	727
Local	425	51	114	156	103	9,599	1,706	2,925	3,423	1,545
Vacancy Status										
Completely Vacant	157	Q	47	84	Q	2,161	Q	892	652	Q
Mostly Vacant	25	Q	Q	Q	Q	406	Q	Q	Q	Q
Partially Vacant	548	100	138	213	98	12,382	3,117	3,119	4,061	2,085
Not At All Vacant	3,915	603	1,073	1,474	765	49,834	9,271	12,976	18,726	8,860
Number of Establishments										
One	3,754	559	1,047	1,444	704	45,144	8,061	12,359	16,947	7,776
2 to 5	643	130	157	215	141	10,960	2,517	2,803	3,740	1,900
6 to 10	55	12	12	16	15	1,958	571	510	550	327
11 to 20	23	5	2	9	7	1,951	722	301	589	340
More than 20	14	3	Q	7	3	2,609	696	Q	1,011	688
Currently Unoccupied	157	Q	47	84	Q	2,161	Q	892	652	Q

Table B3. Census Region, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings*	North-east	Mid-west	South	West	All Buildings*	North-east	Mid-west	South	West
All Buildings*	4,645	726	1,266	1,775	878	64,783	12,905	17,080	23,489	11,310
Predominant Exterior Wall Material										
Brick, Stone or Stucco	2,044	331	520	789	403	32,817	7,248	9,248	11,574	4,747
Concrete (Block or Poured)	786	120	222	347	97	10,832	2,184	2,887	3,985	1,777
Concrete Panels	131	10	23	51	46	6,559	599	1,230	2,758	1,972
Siding or Shingles	779	193	233	202	150	4,120	1,193	1,183	1,045	698
Metal Panels	825	58	245	359	162	7,912	1,054	1,880	3,426	1,552
Window Glass	17	Q	Q	10	Q	1,024	Q	Q	280	Q
Other	47	Q	13	Q	Q	1,113	Q	303	Q	Q
No One Major Type	18	Q	Q	Q	Q	406	Q	Q	Q	Q
Predominant Roof Material										
Built-Up	1,036	176	252	387	221	21,170	4,068	5,262	7,430	4,411
Shingles (Not Wood)	1,325	260	412	442	211	10,195	2,022	3,199	3,325	1,649
Metal Surfacing	1,288	97	329	610	252	11,944	1,027	2,663	6,309	1,946
Synthetic or Rubber	511	119	198	134	60	14,730	4,116	4,443	4,298	1,873
Slate or Tile	263	41	35	109	77	2,462	480	306	1,056	620
Wooden Materials	122	Q	Q	53	39	887	Q	Q	301	244
Concrete	61	Q	Q	27	13	2,231	Q	Q	426	400
Other	16	Q	Q	Q	Q	598	Q	Q	Q	Q
No One Major Type	25	Q	Q	Q	Q	565	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)										
Any Type of Renovation Since 1980	1,018	225	327	290	177	17,844	5,104	5,437	4,462	2,841
Addition or Annex	256	46	74	85	51	6,551	1,797	1,970	1,804	979
Reduction In Floorspace	22	8	Q	Q	Q	1,012	404	Q	Q	Q
Cosmetic Improvements	741	177	225	212	126	13,119	3,952	3,879	3,105	2,183
Wall or Roof Replacement	370	105	122	89	54	8,070	2,676	2,238	1,863	1,294
Interior Wall Re-Configuration	411	118	129	81	82	8,518	2,489	2,586	1,936	1,507
HVAC Equipment Upgrade	442	116	140	114	71	10,768	3,027	3,332	2,584	1,825
Lighting Upgrade	455	130	132	108	85	10,275	3,350	3,059	2,092	1,775
Window Replacement	310	108	86	51	65	6,354	2,750	1,847	916	842
Plumbing System Upgrade	315	93	86	69	68	7,144	2,511	1,898	1,366	1,369
Insulation Upgrade	227	69	72	50	36	4,015	1,370	1,212	857	576
Other Renovation	19	Q	Q	Q	Q	523	Q	Q	Q	Q
No Renovations Since 1980	1,710	304	459	560	388	18,714	4,360	5,708	5,462	3,185
Building Newer than 1980	1,917	197	481	925	314	28,225	3,441	5,935	13,565	5,283
Energy Sources (more than one may apply)										
Electricity	4,404	710	1,189	1,654	851	63,307	12,809	16,701	22,766	11,030
Natural Gas	2,391	397	802	714	479	43,468	9,181	13,163	13,311	7,813
Fuel Oil	451	254	76	84	37	15,157	6,080	2,832	4,122	2,123
District Heat	67	17	13	21	15	5,443	1,363	1,648	1,766	667
District Chilled Water	33	6	4	14	9	2,853	620	596	1,150	487
Propane	502	73	173	176	80	7,076	1,354	2,189	2,360	1,173
Other	132	26	42	28	37	1,401	222	505	306	367

Table B3. Census Region, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings*	North-east	Mid-west	South	West	All Buildings*	North-east	Mid-west	South	West
All Buildings*	4,645	726	1,266	1,775	878	64,783	12,905	17,080	23,489	11,310
Energy End Uses (more than one may apply)										
Buildings with Space Heating	3,982	672	1,112	1,462	735	60,028	12,596	16,331	20,998	10,102
Buildings with Cooling	3,625	519	957	1,479	671	56,940	10,954	14,484	21,553	9,950
Buildings with Water Heating	3,472	600	987	1,217	668	56,478	11,789	14,928	19,913	9,848
Buildings with Cooking	801	157	206	304	134	22,237	5,016	5,850	7,881	3,489
Buildings with Manufacturing	119	30	30	33	26	3,138	1,013	798	642	685
Buildings with Electricity Generation	149	42	40	41	26	12,821	3,245	3,317	4,017	2,241
Percent of Floorspace Heated										
Not Heated	663	54	154	312	143	4,756	309	748	2,491	1,208
1 to 50	523	74	117	236	95	6,850	1,387	1,130	2,841	1,491
51 to 99	498	84	141	168	105	8,107	1,539	1,727	2,891	1,950
100	2,962	514	853	1,059	535	45,071	9,671	13,474	15,266	6,661
Percent of Floorspace Cooled										
Not Cooled	1,020	208	309	296	208	7,843	1,952	2,596	1,936	1,359
1 to 50	985	184	293	366	142	16,598	4,270	4,757	4,915	2,656
51 to 99	629	97	197	195	140	13,211	3,101	3,761	3,903	2,446
100	2,011	237	467	918	388	27,132	3,582	5,966	12,735	4,849
Percent Lit When Open										
Zero	47	Q	Q	Q	Q	293	Q	Q	Q	Q
1 to 50	929	187	279	281	182	10,203	2,750	2,753	3,189	1,512
51 to 99	1,108	170	355	357	227	18,288	3,599	5,299	6,134	3,256
100	2,176	327	488	936	425	32,789	6,051	7,781	12,874	6,083
Building Never Open/ Electricity Not Used	386	37	140	171	37	3,210	465	1,227	1,108	Q
Percent Lit When Closed										
Zero	1,964	289	541	735	399	17,385	2,807	5,174	6,292	3,112
1 to 50	1,882	329	512	707	334	30,948	6,279	8,293	11,027	5,349
51 to 100	136	Q	29	61	33	2,093	Q	499	1,013	238
Building Never Closed/ Electricity Not Used	664	94	185	272	113	14,357	3,476	3,114	5,157	2,611
Heating Equipment (more than one may apply)										
Heat Pumps	476	47	45	304	80	8,814	1,213	1,058	4,942	1,600
Packaged Heat Pumps	278	30	27	173	48	5,442	744	738	2,928	1,031
Split-System Heat Pumps	166	Q	Q	113	Q	2,581	Q	Q	1,862	368
Individual Room Heat Pumps	58	5	6	33	13	2,691	544	358	1,250	538
Furnaces	1,864	310	736	467	352	19,615	3,596	7,229	5,715	3,075
Individual Space Heaters	819	122	242	271	185	12,545	2,786	4,169	3,608	1,981
District Heat	65	17	13	20	15	5,166	1,245	1,623	1,683	615
Boilers	579	227	175	88	89	20,423	6,228	6,141	4,393	3,662
Packaged Heating Units	953	95	151	532	175	18,021	2,912	3,666	8,130	3,312
Other	205	22	80	56	47	3,262	579	820	1,381	481

Table B3. Census Region, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings*	North-east	Mid-west	South	West	All Buildings*	North-east	Mid-west	South	West
All Buildings*	4,645	726	1,266	1,775	878	64,783	12,905	17,080	23,489	11,310
Cooling Equipment (more than one may apply)										
Residential-Type Central Air Conditioners	1,006	144	363	360	138	11,035	2,391	3,609	3,854	1,181
Heat Pumps	492	59	49	303	81	9,041	1,270	1,063	4,923	1,785
Packaged Heat Pumps	288	42	30	170	46	5,426	788	760	2,849	1,030
Split-System Heat Pumps	174	Q	Q	116	Q	2,606	Q	Q	1,868	404
Individual Room Heat Pumps	58	6	6	33	13	2,940	557	358	1,290	734
Individual Air Conditioners	742	179	209	229	125	12,558	3,687	3,488	3,635	1,749
District Chilled Water	33	6	4	14	9	2,853	620	596	1,150	487
Central Chillers	111	10	29	50	22	11,636	1,852	2,842	4,854	2,088
Packaged Air Conditioning Units	1,613	202	425	681	304	29,969	6,000	8,086	10,401	5,482
Swamp Coolers	122	Q	Q	Q	113	1,561	Q	Q	Q	1,342
Other	40	Q	10	12	Q	1,232	Q	330	430	Q
Main Equipment Replaced Since 1990 (more than one may apply)										
Heating	1,197	216	365	432	184	16,403	3,974	5,026	4,815	2,588
Cooling	1,356	266	376	481	233	20,995	5,453	5,752	6,415	3,374
Office Equipment (more than one may apply)										
Computers	3,081	504	814	1,120	643	55,627	11,518	14,415	19,715	9,980
With Flat Screen Monitors	877	189	216	305	166	26,417	5,995	6,346	9,135	4,940
Dedicated Servers	1,175	230	319	367	258	36,338	8,143	9,252	12,649	6,294
Laser Printers	1,970	344	505	718	403	33,012	7,095	8,463	11,566	5,888
Inkjet Printers	1,420	222	379	506	314	32,210	6,415	8,305	11,480	6,009
FAX Machines	2,715	474	701	1,006	533	52,373	11,173	13,295	18,782	9,123
Photocopiers	1,939	352	494	687	407	46,257	9,893	11,859	16,312	8,193
Number of Computers										
None	1,565	222	452	655	235	9,156	1,388	2,664	3,774	1,330
1 to 4	1,670	253	446	646	325	12,395	2,081	3,743	4,419	2,151
5 to 9	559	103	150	199	108	7,179	1,604	1,938	2,538	1,099
10 to 19	370	63	102	114	91	6,610	1,321	1,690	2,403	1,196
20 to 49	255	47	61	77	70	7,414	1,504	1,932	2,425	1,554
50 to 99	110	15	25	42	28	5,376	1,157	1,049	2,102	1,068
100 to 249	79	14	21	29	15	6,690	1,260	1,851	2,262	1,317
250 or More	38	9	9	13	6	9,963	2,590	2,213	3,565	1,595
Number of Dedicated Servers										
None	3,471	496	947	1,407	620	28,445	4,763	7,828	10,839	5,015
1 to 4	1,060	210	290	326	234	24,116	5,247	6,567	8,208	4,093
5 to 9	58	9	15	19	16	3,864	914	966	1,313	671
10 to 19	30	4	7	15	4	3,027	578	773	1,126	552
20 to 49	17	4	4	6	4	2,583	493	334	1,265	491
50 or More	10	3	Q	2	1	2,748	912	Q	737	487
Number of Photocopiers										
None	2,706	374	773	1,088	472	18,526	3,012	5,221	7,176	3,117
One	1,250	208	332	463	247	15,475	3,027	4,235	5,460	2,753
2 to 4	549	113	130	173	133	15,082	2,944	4,026	5,518	2,594
5 to 9	85	21	20	30	14	5,515	1,518	1,401	1,782	814
10 or More	54	11	11	20	13	10,185	2,404	2,196	3,553	2,032

Table B3. Census Region, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings*	North-east	Mid-west	South	West	All Buildings*	North-east	Mid-west	South	West
All Buildings*	4,645	726	1,266	1,775	878	64,783	12,905	17,080	23,489	11,310
Energy-Related Space Functions (more than one may apply)										
Commercial Food Preparation	799	157	206	303	134	22,223	5,016	5,850	7,880	3,478
Activities with Large Amounts of Hot Water	567	93	134	207	133	19,482	3,922	5,225	6,903	3,432
Separate Computer Area	553	99	134	190	130	26,873	5,925	6,482	9,397	5,070
HVAC Conservation Features (more than one may apply)										
Variable Air-Volume System	466	62	107	180	116	19,597	3,780	5,001	7,348	3,468
Economizer Cycle	508	90	136	138	144	21,108	4,141	5,884	6,632	4,452
HVAC Maintenance	2,581	498	642	878	563	51,163	11,047	13,128	17,641	9,347
Energy Management and Control System (EMCS)	252	28	55	101	68	15,630	3,002	3,799	5,802	3,027
Window and Interior Lighting Features (more than one may apply)										
Multipaned Windows	2,201	427	742	651	381	38,910	9,308	11,761	12,305	5,536
Tinted Window Glass	1,323	140	339	572	272	29,887	4,958	7,319	11,950	5,660
Reflective Window Glass	308	47	77	103	81	8,544	1,661	2,165	3,010	1,707
External Overhangs or Awnings	1,233	149	352	463	269	17,242	2,687	4,225	6,785	3,545
Skylights or Atriums	331	57	90	110	74	12,546	2,892	3,267	3,922	2,466
Daylighting Sensors	74	Q	25	16	24	2,868	428	815	674	951
Specular Reflectors	928	160	291	282	195	26,118	5,834	7,709	7,871	4,703
Electronic Ballasts	2,577	384	767	896	530	46,882	9,288	12,610	16,459	8,525
Energy Management and Control System (EMCS) for Lighting	60	6	11	21	23	4,781	849	1,292	1,471	1,169
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]										
Heating	2,878	510	757	1,040	571	42,722	9,519	10,908	14,655	7,639
Cooling	2,761	416	676	1,129	539	43,205	8,812	10,469	16,094	7,829
Lighting	3,685	591	996	1,384	715	46,987	8,706	12,884	17,115	8,282
Office Equipment	1,504	263	386	556	298	19,397	4,269	5,412	6,426	3,291

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

a The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B4. Census Region and Division, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)									
		Northeast		Midwest		South			West	
	All Buildings*	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
All Buildings*	4,645	233	493	696	571	874	348	553	299	580
Building Floorspace (Square Feet)										
1,001 to 5,000	2,552	127	237	369	356	457	215	294	165	333
5,001 to 10,000	889	48	101	117	97	189	56	116	56	110
10,001 to 25,000	738	37	90	122	75	139	51	88	54	81
25,001 to 50,000	241	10	26	44	27	47	15	26	14	32
50,001 to 100,000	129	7	21	24	10	21	10	18	5	13
100,001 to 200,000	65	3	12	12	5	16	Q	8	Q	6
200,001 to 500,000	25	Q	6	6	1	4	Q	2	1	3
Over 500,000	7	Q	1	1	Q	1	Q	Q	Q	1
Principal Building Activity										
Education	386	Q	21	34	29	87	Q	56	39	97
Food Sales	226	Q	Q	43	Q	49	Q	Q	Q	Q
Food Service	297	Q	27	54	34	61	24	42	Q	34
Health Care	129	Q	17	20	11	27	11	10	13	18
Inpatient	8	Q	1	1	Q	Q	Q	1	Q	1
Outpatient	121	Q	Q	19	Q	25	Q	Q	Q	17
Lodging	142	Q	9	15	19	26	13	13	16	14
Retail (Other Than Mall)	443	Q	46	69	42	106	42	49	21	39
Office	824	47	108	134	97	125	41	84	62	125
Public Assembly	277	Q	29	25	31	44	Q	38	Q	48
Public Order and Safety	71	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	370	Q	41	62	46	77	35	46	Q	33
Service	622	Q	79	95	126	101	51	46	42	61
Warehouse and Storage	597	Q	46	95	66	125	58	93	31	64
Other	79	Q	10	23	Q	Q	Q	Q	Q	Q
Vacant	182	Q	Q	24	Q	35	Q	37	Q	Q
Year Constructed										
Before 1920	330	54	69	82	57	31	Q	Q	Q	Q
1920 to 1945	527	27	95	97	66	51	40	61	Q	75
1946 to 1959	562	Q	79	96	61	87	32	41	Q	106
1960 to 1969	579	Q	75	69	62	107	33	52	63	85
1970 to 1979	731	26	45	112	84	128	71	98	67	100
1980 to 1989	707	32	65	88	74	186	48	117	41	54
1990 to 1999	876	Q	46	107	121	206	80	125	49	119
2000 to 2003	334	Q	20	44	46	78	37	47	19	32
Number of Floors										
One	3,136	91	221	412	389	668	262	450	225	417
Two	1,031	85	145	184	144	138	67	84	54	128
Three	339	37	93	78	29	41	14	12	13	22
Four to Nine	128	19	31	21	8	25	4	5	Q	10
Ten or More	12	Q	3	2	Q	Q	Q	1	Q	2
Elevators and Escalators (more than one may apply)										
Any Elevators	309	20	51	71	36	54	14	23	12	29
Number of Elevators										
One	208	13	31	52	30	34	9	15	9	15
Two to Five	88	5	17	17	6	18	4	6	3	11
Six or More	13	Q	3	1	Q	2	Q	1	Q	2
Any Escalators	6	Q	2	Q	Q	Q	Q	Q	Q	Q

Table B4. Census Region and Division, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)									
		Northeast		Midwest		South			West	
	All Buildings*	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
All Buildings*	4,645	233	493	696	571	874	348	553	299	580
Number of Workers (main shift)										
Fewer than 5	2,653	131	232	398	390	473	238	322	164	305
5 to 9	778	40	97	104	69	159	53	105	40	111
10 to 19	563	32	78	85	60	113	22	64	40	67
20 to 49	398	17	49	68	34	70	26	40	36	57
50 to 99	147	Q	21	26	11	33	Q	13	12	21
100 to 249	77	Q	11	10	5	19	Q	5	5	14
250 or More	30	Q	6	5	1	6	Q	3	1	5
Weekly Operating Hours										
Fewer than 40	1,002	Q	73	163	146	196	95	119	57	115
40 to 48	1,117	52	106	134	149	210	78	150	87	151
49 to 60	1,062	50	134	174	115	199	72	107	59	151
61 to 84	591	35	79	86	69	109	35	71	39	68
85 to 167	400	Q	55	77	31	81	Q	56	20	43
Open Continuously	475	39	46	62	61	78	Q	51	36	52
Ownership and Occupancy										
Nongovernment Owned	4,011	200	442	618	500	765	308	489	239	450
Owner Occupied	1,841	119	246	312	246	305	110	182	108	213
Nonowner Occupied	2,029	80	181	284	234	428	187	273	130	231
Unoccupied	141	Q	Q	22	Q	Q	Q	Q	Q	Q
Government Owned	635	33	51	78	71	109	39	64	60	130
Federal	46	Q	Q	6	Q	2	Q	Q	Q	Q
State	164	Q	17	9	Q	27	15	Q	Q	59
Local	425	20	32	63	52	79	23	54	35	68
Vacancy Status										
Completely Vacant	157	Q	Q	22	Q	35	Q	35	Q	Q
Mostly Vacant	25	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	548	41	59	70	68	93	48	72	41	56
Not At All Vacant	3,915	186	417	601	472	746	284	445	253	511
Number of Establishments										
One	3,754	182	376	571	476	704	308	432	242	462
2 to 5	643	42	88	94	63	116	20	79	46	95
6 to 10	55	Q	8	6	Q	10	Q	Q	Q	9
11 to 20	23	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	14	Q	3	Q	Q	Q	Q	2	Q	3
Currently Unoccupied	157	Q	Q	22	Q	35	Q	35	Q	Q
Predominant Exterior Wall Material										
Brick, Stone or Stucco	2,044	63	267	363	157	418	148	223	126	277
Concrete (Block or Poured)	786	13	106	148	74	175	74	98	31	66
Concrete Panels	131	Q	9	13	10	16	Q	31	10	36
Siding or Shingles	779	138	56	81	152	117	Q	51	Q	101
Metal Panels	825	Q	44	79	166	136	79	144	78	85
Window Glass	17	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	47	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	18	Q	Q	Q	Q	Q	N	Q	Q	Q

Table B4. Census Region and Division, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)									
		Northeast		Midwest		South			West	
	All Buildings*	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
All Buildings*	4,645	233	493	696	571	874	348	553	299	580
Predominant Roof Material										
Built-Up	1,036	34	142	165	88	211	57	119	72	149
Shingles (Not Wood)	1,325	125	134	237	175	234	101	107	65	147
Metal Surfacing	1,288	Q	69	112	217	244	132	234	121	131
Synthetic or Rubber	511	20	98	134	64	78	26	31	22	38
Slate or Tile	263	Q	31	29	Q	66	Q	20	Q	66
Wooden Materials	122	Q	Q	Q	Q	Q	Q	Q	Q	33
Concrete	61	Q	Q	Q	Q	Q	N	Q	Q	12
Other	16	Q	Q	Q	Q	Q	N	Q	Q	Q
No One Major Type	25	Q	Q	Q	Q	Q	N	Q	N	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)										
Any Type of Renovation Since 1980	1,018	82	143	184	143	137	67	86	62	115
Addition or Annex	256	Q	34	36	38	40	21	24	27	25
Reduction In Floorspace	22	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	741	57	120	119	105	95	53	64	41	85
Wall or Roof Replacement	370	50	56	66	56	29	30	30	15	39
Interior Wall Re-Configuration	411	48	70	73	57	32	23	26	33	49
HVAC Equipment Upgrade	442	40	76	73	67	52	23	38	25	46
Lighting Upgrade	455	48	82	70	62	60	21	27	29	56
Window Replacement	310	47	61	55	32	27	Q	16	20	44
Plumbing System Upgrade	315	36	56	47	39	43	9	17	26	42
Insulation Upgrade	227	Q	38	41	31	26	Q	16	Q	25
Other Renovation	19	Q	Q	Q	N	Q	Q	N	Q	Q
No Renovations Since 1980	1,710	84	220	272	187	266	116	178	128	260
Building Newer than 1980	1,917	67	131	240	241	470	165	290	108	205
Energy Sources (more than one may apply)										
Electricity	4,404	228	482	659	531	835	312	507	285	565
Natural Gas	2,391	74	323	546	255	308	155	251	190	289
Fuel Oil	451	122	132	35	41	59	15	11	10	27
District Heat	67	Q	12	8	Q	15	Q	Q	7	8
District Chilled Water	33	Q	6	3	Q	9	Q	3	Q	6
Propane	502	50	23	30	143	104	44	Q	41	Q
Other	132	Q	Q	19	22	Q	Q	Q	Q	Q
Energy End Uses (more than one may apply)										
Buildings with Space Heating	3,982	211	461	633	479	746	283	433	273	462
Buildings with Cooling	3,625	130	388	550	408	761	262	456	237	434
Buildings with Water Heating	3,472	188	411	572	415	643	227	347	256	413
Buildings with Cooking	801	53	104	131	75	149	59	96	46	88
Buildings with Manufacturing	119	Q	19	18	Q	16	Q	Q	Q	19
Buildings with Electricity Generation	149	12	30	26	14	26	Q	8	11	15
Percent of Floorspace Heated										
Not Heated	663	Q	Q	63	91	128	64	120	Q	118
1 to 50	523	Q	40	65	52	103	46	87	Q	68
51 to 99	498	28	56	83	58	85	29	54	28	76
100	2,962	149	365	484	369	558	209	292	218	318

Table B4. Census Region and Division, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)									
		Northeast		Midwest		South			West	
	All Buildings*	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
All Buildings*	4,645	233	493	696	571	874	348	553	299	580
Percent of Floorspace Cooled										
Not Cooled	1,020	103	105	146	163	113	86	97	62	146
1 to 50	985	53	131	165	128	185	54	127	63	79
51 to 99	629	28	70	112	85	103	29	62	51	89
100	2,011	50	188	272	195	473	178	268	123	265
Percent Lit When Open										
Zero	47	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	929	71	116	149	130	134	50	97	55	127
51 to 99	1,108	73	97	194	161	175	54	128	77	150
100	2,176	79	248	284	204	497	183	256	148	277
Building Never Open/ Electricity Not Used	386	Q	Q	66	74	59	Q	68	Q	Q
Percent Lit When Closed										
Zero	1,964	103	185	254	287	388	120	227	137	262
1 to 50	1,882	84	245	325	187	344	144	219	112	222
51 to 100	136	Q	Q	21	Q	34	Q	20	Q	30
Building Never Closed/ Electricity Not Used	664	41	54	96	88	108	77	87	46	67
Heating Equipment (more than one may apply)										
Heat Pumps	476	Q	42	15	30	223	50	31	11	69
Packaged Heat Pumps	278	Q	27	11	Q	127	Q	26	Q	38
Split-System Heat Pumps	166	Q	Q	Q	Q	82	27	Q	Q	Q
Individual Room Heat Pumps	58	Q	4	Q	Q	26	Q	Q	Q	12
Furnaces	1,864	92	218	424	312	199	100	168	162	190
Individual Space Heaters	819	44	77	122	120	112	Q	81	69	117
District Heat	65	Q	12	8	Q	13	Q	Q	7	8
Boilers	579	85	142	117	58	51	17	21	37	52
Packaged Heating Units	953	22	74	92	59	248	97	187	46	129
Other	205	Q	9	42	39	38	Q	7	24	Q
Cooling Equipment (more than one may apply)										
Residential-Type Central Air Conditioners	1,006	20	124	186	177	165	53	142	34	105
Heat Pumps	492	Q	48	21	28	225	51	27	15	66
Packaged Heat Pumps	288	Q	33	15	Q	126	Q	23	Q	35
Split-System Heat Pumps	174	Q	Q	Q	Q	84	28	Q	Q	Q
Individual Room Heat Pumps	58	Q	4	Q	Q	25	Q	Q	Q	12
Individual Air Conditioners	742	69	110	100	109	97	62	69	56	69
District Chilled Water	33	Q	6	3	Q	9	Q	3	Q	6
Central Chillers	111	3	6	18	11	31	8	11	6	16
Packaged Air Conditioning Units	1,613	42	160	280	145	325	116	240	99	205
Swamp Coolers	122	Q	Q	Q	N	Q	Q	Q	66	47
Other	40	Q	Q	10	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)										
Heating	1,197	61	155	214	151	212	89	131	74	109
Cooling	1,356	79	187	220	156	226	98	157	95	138

Table B4. Census Region and Division, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)									
		Northeast		Midwest		South			West	
	All Buildings*	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
All Buildings*	4,645	233	493	696	571	874	348	553	299	580
Office Equipment (more than one may apply)										
Computers	3,081	155	349	465	349	581	192	346	205	438
With Flat Screen Monitors	877	65	124	132	84	153	51	101	60	106
Dedicated Servers	1,175	59	171	193	126	204	56	107	85	173
Laser Printers	1,970	109	235	276	229	339	143	235	114	289
Inkjet Printers	1,420	64	158	228	151	280	74	152	116	197
FAX Machines	2,715	135	339	413	289	521	164	321	179	354
Photocopiers	1,939	96	256	301	193	359	128	200	134	273
Number of Computers										
None	1,565	78	145	231	221	292	156	207	94	142
1 to 4	1,670	87	166	256	191	325	115	206	100	225
5 to 9	559	Q	82	82	68	93	40	66	35	73
10 to 19	370	26	37	51	51	67	Q	36	29	62
20 to 49	255	14	33	35	25	41	15	20	28	42
50 to 99	110	Q	13	19	6	29	Q	6	7	21
100 to 249	79	Q	11	13	8	19	Q	7	5	10
250 or More	38	2	7	8	1	8	Q	4	1	5
Number of Dedicated Servers										
None	3,471	174	322	503	444	669	292	446	213	407
1 to 4	1,060	54	156	171	119	175	52	99	83	151
5 to 9	58	Q	7	11	3	12	Q	Q	Q	15
10 to 19	30	Q	3	4	Q	13	Q	Q	Q	3
20 to 49	17	Q	3	Q	Q	3	Q	Q	Q	Q
50 or More	10	Q	2	Q	Q	1	Q	Q	Q	Q
Number of Photocopiers										
None	2,706	137	237	395	378	515	219	354	164	307
One	1,250	56	152	190	142	224	99	140	79	169
2 to 4	549	32	81	86	44	101	22	50	49	84
5 to 9	85	Q	14	16	5	19	Q	5	Q	11
10 or More	54	2	9	9	2	14	Q	5	3	9
Energy-Related Space Functions (more than one may apply)										
Commercial Food Preparation	799	53	104	131	75	148	59	96	46	88
Activities with Large Amounts of Hot Water	567	30	63	80	55	111	39	56	47	86
Separate Computer Area	553	29	69	84	51	104	29	57	37	93
HVAC Conservation Features (more than one may apply)										
Variable Air-Volume System	466	22	40	71	35	101	21	58	38	79
Economizer Cycle	508	31	60	96	41	76	20	42	40	104
HVAC Maintenance	2,581	157	341	414	228	475	123	279	193	370
Energy Management and Control System (EMCS)	252	6	22	41	14	66	9	26	14	55

Table B4. Census Region and Division, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)									
		Northeast		Midwest		South			West	
	All Buildings*	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
All Buildings*	4,645	233	493	696	571	874	348	553	299	580
Window and Interior Lighting Features (more than one may apply)										
Multipaned Windows	2,201	156	272	431	311	379	117	155	177	204
Tinted Window Glass	1,323	33	107	205	134	294	89	189	86	186
Reflective Window Glass	308	Q	30	43	34	53	12	38	28	53
External Overhangs or Awnings	1,233	48	102	195	157	221	83	158	100	169
Skylights or Atriums	331	16	41	57	33	57	Q	38	30	44
Daylighting Sensors	74	Q	2	20	Q	9	Q	Q	Q	19
Specular Reflectors	928	57	103	200	91	158	37	86	52	143
Electronic Ballasts	2,577	123	261	407	360	456	164	276	183	347
Energy Management and Control System (EMCS) for Lighting	60	Q	5	8	Q	16	Q	5	Q	Q
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]										
Heating	2,878	146	363	449	309	520	209	312	184	387
Cooling	2,761	102	314	394	282	558	201	371	179	360
Lighting	3,685	183	407	557	439	709	253	422	241	474
Office Equipment	1,504	73	190	226	160	292	83	181	96	202

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B5. Census Region and Division, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)									
		Northeast		Midwest		South			West	
	All Buildings*	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
All Buildings*	64,783	2,964	9,941	11,595	5,485	12,258	3,393	7,837	3,675	7,635
Building Floorspace (Square Feet)										
1,001 to 5,000	6,789	360	666	974	922	1,207	538	788	464	871
5,001 to 10,000	6,585	359	764	843	722	1,387	393	879	418	820
10,001 to 25,000	11,535	553	1,419	1,934	1,164	2,240	810	1,329	831	1,256
25,001 to 50,000	8,668	347	944	1,618	949	1,672	498	998	511	1,132
50,001 to 100,000	9,057	516	1,524	1,618	642	1,470	650	1,314	374	948
100,001 to 200,000	9,064	414	1,703	1,682	614	2,087	Q	1,131	Q	895
200,001 to 500,000	7,176	Q	1,673	1,801	395	1,072	Q	664	339	947
Over 500,000	5,908	Q	1,248	1,126	Q	1,123	Q	Q	Q	766
Principal Building Activity										
Education	9,874	Q	1,384	1,990	552	2,445	341	1,198	640	1,027
Food Sales	1,255	Q	Q	218	Q	223	Q	Q	Q	Q
Food Service	1,654	Q	127	248	206	433	99	232	Q	232
Health Care	3,163	Q	464	551	247	749	219	309	230	323
Inpatient	1,905	Q	310	316	Q	469	Q	235	Q	176
Outpatient	1,258	Q	Q	235	Q	280	Q	Q	Q	147
Lodging	5,096	374	797	548	595	939	368	387	438	649
Retail (Other Than Mall)	4,317	Q	419	544	337	897	353	594	210	753
Office	12,208	578	2,434	2,190	799	1,958	481	1,343	629	1,796
Public Assembly	3,939	Q	769	635	377	440	Q	498	Q	468
Public Order and Safety	1,090	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	3,754	Q	474	720	395	721	310	467	Q	341
Service	4,050	Q	620	775	514	753	307	298	345	319
Warehouse and Storage	10,078	Q	1,112	2,023	994	1,836	390	1,740	506	1,066
Other	1,738	Q	501	248	Q	Q	Q	Q	Q	Q
Vacant	2,567	Q	Q	791	Q	252	Q	350	Q	Q
Year Constructed										
Before 1920	3,769	444	962	999	553	Q	Q	Q	Q	Q
1920 to 1945	6,871	611	1,893	1,603	496	650	300	398	Q	783
1946 to 1959	7,045	Q	1,745	1,454	574	1,097	239	460	255	873
1960 to 1969	8,101	Q	1,393	1,380	850	1,379	483	675	592	1,005
1970 to 1979	10,772	450	1,273	2,198	1,039	1,464	789	1,473	924	1,162
1980 to 1989	10,332	265	1,109	1,486	463	2,403	431	1,934	700	1,541
1990 to 1999	12,360	Q	1,130	1,655	1,091	3,652	766	1,823	627	1,377
2000 to 2003	5,533	Q	435	820	420	1,272	342	943	307	731
Number of Floors										
One	25,981	545	2,606	3,877	2,227	5,753	1,641	4,362	1,871	3,098
Two	16,270	742	2,288	3,251	1,926	2,700	864	1,381	990	2,128
Three	7,501	755	1,327	1,881	703	1,043	442	453	181	715
Four to Nine	10,085	793	2,210	2,081	579	2,003	355	736	338	990
Ten or More	4,947	Q	1,510	506	Q	759	Q	904	Q	704
Elevators and Escalators (more than one may apply)										
Any Elevators	24,617	1,375	4,762	5,050	1,627	4,612	923	2,414	1,069	2,785
Number of Elevators										
One	8,221	500	1,086	2,224	860	1,475	369	631	414	662
Two to Five	10,129	723	2,248	2,060	644	1,900	386	808	275	1,085
Six or More	6,268	Q	1,428	766	Q	1,237	168	975	Q	1,039
Any Escalators	2,350	Q	494	Q	Q	Q	Q	Q	Q	Q

Table B5. Census Region and Division, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)									
		Northeast		Midwest		South			West	
	All Buildings*	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
All Buildings*	64,783	2,964	9,941	11,595	5,485	12,258	3,393	7,837	3,675	7,635
Number of Workers (main shift)										
Fewer than 5	15,492	776	1,599	3,195	1,763	2,517	1,107	2,046	766	1,723
5 to 9	6,166	401	684	866	598	1,284	476	835	345	678
10 to 19	7,803	409	1,463	1,214	867	1,392	350	999	428	681
20 to 49	10,989	350	1,964	1,980	876	1,773	701	1,408	645	1,291
50 to 99	7,934	Q	1,110	1,570	742	1,611	Q	840	558	812
100 to 249	6,871	Q	1,034	1,212	397	1,737	Q	451	311	1,086
250 or More	9,528	Q	2,087	1,558	242	1,943	Q	1,259	622	1,364
Weekly Operating Hours										
Fewer than 40	6,863	Q	725	1,600	700	1,211	416	918	291	804
40 to 48	11,622	440	1,672	1,746	1,036	2,109	770	1,688	783	1,378
49 to 60	15,723	837	2,261	3,340	1,273	3,074	610	1,872	712	1,744
61 to 84	10,334	494	1,554	1,737	845	1,926	600	1,228	592	1,358
85 to 167	7,092	Q	1,078	1,450	558	1,402	Q	882	357	950
Open Continuously	13,149	756	2,651	1,721	1,073	2,536	823	1,250	940	1,401
Ownership and Occupancy										
Nongovernment Owned	49,421	2,283	8,106	8,015	4,455	9,049	2,453	6,325	2,611	6,125
Owner Occupied	23,591	1,587	4,317	3,755	2,416	4,141	967	2,761	976	2,672
Nonowner Occupied	23,914	669	3,535	3,597	1,942	4,678	1,450	3,230	1,624	3,189
Unoccupied	1,916	Q	Q	663	Q	Q	Q	Q	Q	Q
Government Owned	15,363	682	1,835	3,580	1,030	3,209	940	1,512	1,064	1,510
Federal	1,956	Q	Q	Q	Q	Q	Q	Q	Q	Q
State	3,808	Q	386	536	Q	726	507	Q	Q	565
Local	9,599	346	1,360	2,199	726	2,078	376	969	681	864
Vacancy Status										
Completely Vacant	2,161	Q	Q	756	Q	241	Q	346	Q	Q
Mostly Vacant	406	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	12,382	1,031	2,086	2,255	864	1,980	397	1,685	750	1,335
Not At All Vacant	49,834	1,795	7,475	8,549	4,427	10,026	2,898	5,802	2,882	5,978
Number of Establishments										
One	45,144	1,784	6,277	8,315	4,044	8,902	2,707	5,339	2,794	4,982
2 to 5	10,960	615	1,901	1,833	970	2,139	385	1,217	538	1,362
6 to 10	1,958	Q	411	264	Q	Q	Q	Q	Q	211
11 to 20	1,951	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	2,609	Q	641	Q	Q	320	Q	639	Q	547
Currently Unoccupied	2,161	Q	Q	756	Q	241	Q	346	Q	Q
Predominant Exterior Wall Material										
Brick, Stone or Stucco	32,817	1,541	5,707	7,166	2,082	6,051	1,824	3,699	1,551	3,195
Concrete (Block or Poured)	10,832	284	1,900	1,885	1,002	2,371	641	973	462	1,315
Concrete Panels	6,559	Q	550	855	375	1,416	Q	1,216	695	1,277
Siding or Shingles	4,120	779	415	473	711	649	Q	281	Q	461
Metal Panels	7,912	Q	862	651	1,229	1,450	616	1,360	634	918
Window Glass	1,024	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	1,113	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	406	Q	Q	Q	Q	Q	N	Q	Q	Q

Table B5. Census Region and Division, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)									
		Northeast		Midwest		South			West	
	All Buildings*	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
All Buildings*	64,783	2,964	9,941	11,595	5,485	12,258	3,393	7,837	3,675	7,635
Predominant Roof Material										
Built-Up	21,170	704	3,363	3,913	1,349	4,125	827	2,479	1,421	2,990
Shingles (Not Wood)	10,195	683	1,340	2,070	1,129	1,889	638	797	475	1,174
Metal Surfacing	11,944	Q	780	1,046	1,616	2,557	1,116	2,635	944	1,001
Synthetic or Rubber	14,730	1,018	3,097	3,453	990	2,449	643	1,206	664	1,209
Slate or Tile	2,462	Q	398	236	Q	624	Q	279	Q	552
Wooden Materials	887	Q	Q	Q	Q	Q	Q	Q	Q	212
Concrete	2,231	Q	Q	Q	Q	Q	N	Q	Q	353
Other	598	Q	Q	Q	Q	Q	N	Q	Q	Q
No One Major Type	565	Q	Q	Q	Q	Q	N	Q	N	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)										
Any Type of Renovation Since 1980	17,844	1,445	3,659	3,492	1,945	2,304	884	1,273	1,095	1,746
Addition or Annex	6,551	Q	1,395	1,243	727	884	392	529	551	428
Reduction In Floorspace	1,012	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	13,119	943	3,010	2,354	1,525	1,497	677	931	718	1,465
Wall or Roof Replacement	8,070	720	1,955	1,367	871	961	340	562	504	789
Interior Wall Re-Configuration	8,518	639	1,850	1,709	877	1,036	334	566	637	870
HVAC Equipment Upgrade	10,768	739	2,287	2,136	1,197	1,559	464	561	776	1,049
Lighting Upgrade	10,275	853	2,497	1,985	1,074	1,186	440	466	733	1,042
Window Replacement	6,354	688	2,061	1,339	508	505	Q	266	332	510
Plumbing System Upgrade	7,144	633	1,878	1,177	721	782	262	323	517	852
Insulation Upgrade	4,015	356	1,014	700	512	468	Q	231	Q	411
Other Renovation	523	Q	Q	Q	N	Q	Q	N	Q	Q
No Renovations Since 1980	18,714	752	3,608	4,142	1,566	2,626	971	1,864	945	2,240
Building Newer than 1980	28,225	767	2,675	3,961	1,974	7,327	1,538	4,700	1,634	3,649
Energy Sources (more than one may apply)										
Electricity	63,307	2,942	9,867	11,373	5,328	12,097	3,220	7,449	3,633	7,397
Natural Gas	43,468	1,465	7,716	9,570	3,593	6,326	2,281	4,704	2,797	5,016
Fuel Oil	15,157	1,577	4,502	1,871	961	2,639	341	1,141	626	1,497
District Heat	5,443	Q	1,082	1,420	Q	1,243	Q	Q	253	413
District Chilled Water	2,853	Q	583	569	Q	667	Q	284	Q	300
Propane	7,076	Q	505	Q	991	1,548	265	547	555	618
Other	1,401	Q	Q	283	222	Q	Q	Q	Q	Q
Energy End Uses (more than one may apply)										
Buildings with Space Heating	60,028	2,819	9,778	11,223	5,108	11,012	3,056	6,929	3,525	6,577
Buildings with Cooling	56,940	2,021	8,932	9,790	4,694	11,474	2,985	7,094	3,267	6,683
Buildings with Water Heating	56,478	2,724	9,065	10,208	4,720	10,714	2,858	6,341	3,422	6,426
Buildings with Cooking	22,237	938	4,078	4,378	1,472	4,198	1,055	2,628	1,209	2,280
Buildings with Manufacturing	3,138	Q	679	489	Q	296	Q	Q	Q	412
Buildings with Electricity Generation	12,821	567	2,678	2,558	760	2,396	324	1,297	738	1,504
Percent of Floorspace Heated										
Not Heated	4,756	Q	Q	372	377	1,246	337	908	Q	1,057
1 to 50	6,850	Q	899	774	356	1,105	353	1,384	Q	1,257
51 to 99	8,107	418	1,120	1,214	513	1,864	309	718	569	1,381
100	45,071	1,913	7,758	9,235	4,239	8,043	2,394	4,828	2,721	3,940

Table B5. Census Region and Division, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)									
		Northeast		Midwest		South			West	
	All Buildings*	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
All Buildings*	64,783	2,964	9,941	11,595	5,485	12,258	3,393	7,837	3,675	7,635
Percent of Floorspace Cooled										
Not Cooled	7,843	943	1,009	1,805	791	784	408	744	407	952
1 to 50	16,598	922	3,349	3,186	1,571	2,418	472	2,025	918	1,738
51 to 99	13,211	550	2,551	2,436	1,325	2,624	459	820	886	1,559
100	27,132	550	3,033	4,169	1,797	6,431	2,054	4,249	1,463	3,386
Percent Lit When Open										
Zero	293	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	10,203	953	1,796	1,575	1,178	1,313	505	1,371	382	1,130
51 to 99	18,288	1,070	2,529	3,641	1,658	3,293	913	1,928	1,095	2,161
100	32,789	830	5,221	5,418	2,362	7,210	1,730	3,933	2,136	3,947
Building Never Open/ Electricity Not Used	3,210	Q	372	946	281	363	Q	553	Q	Q
Percent Lit When Closed										
Zero	17,385	721	2,086	3,237	1,936	3,431	623	2,239	1,118	1,994
1 to 50	30,948	1,400	4,880	6,101	2,192	5,687	1,682	3,658	1,526	3,823
51 to 100	2,093	Q	Q	Q	Q	491	Q	374	Q	180
Building Never Closed/ Electricity Not Used	14,357	764	2,711	1,916	1,197	2,649	942	1,565	973	1,638
Heating Equipment (more than one may apply)										
Heat Pumps	8,814	Q	1,019	719	339	3,677	542	722	333	1,268
Packaged Heat Pumps	5,442	Q	656	541	Q	2,145	246	537	Q	741
Split-System Heat Pumps	2,581	Q	Q	Q	Q	1,459	214	Q	Q	305
Individual Room Heat Pumps	2,691	Q	430	Q	Q	1,039	Q	Q	Q	431
Furnaces	19,615	990	2,606	4,572	2,657	2,772	895	2,048	1,302	1,773
Individual Space Heaters	12,545	1,011	1,775	2,544	1,625	2,148	563	898	692	1,290
District Heat	5,166	Q	1,000	1,420	Q	1,173	Q	Q	253	362
Boilers	20,423	1,465	4,763	4,466	1,675	2,135	786	1,472	1,359	2,302
Packaged Heating Units	18,021	615	2,297	2,531	1,135	3,917	1,215	2,998	748	2,564
Other	3,262	Q	408	434	386	905	Q	399	347	Q
Cooling Equipment (more than one may apply)										
Residential-Type Central Air Conditioners	11,035	291	2,100	2,040	1,568	1,843	489	1,523	341	841
Heat Pumps	9,041	Q	1,008	746	317	3,742	586	595	430	1,355
Packaged Heat Pumps	5,426	Q	646	563	Q	2,104	294	451	Q	742
Split-System Heat Pumps	2,606	Q	Q	Q	Q	1,494	225	Q	Q	322
Individual Room Heat Pumps	2,940	Q	430	Q	Q	1,079	Q	Q	Q	546
Individual Air Conditioners	12,558	925	2,762	2,199	1,289	2,218	610	806	730	1,019
District Chilled Water	2,853	Q	583	569	Q	667	Q	284	Q	300
Central Chillers	11,636	383	1,469	2,074	768	2,489	594	1,771	621	1,466
Packaged Air Conditioning Units	29,969	872	5,128	5,505	2,581	5,520	1,555	3,325	1,655	3,826
Swamp Coolers	1,561	Q	Q	Q	N	Q	Q	Q	874	468
Other	1,232	Q	Q	317	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)										
Heating	16,403	1,013	2,961	3,273	1,754	2,253	886	1,675	1,133	1,455
Cooling	20,995	1,100	4,353	3,700	2,052	3,111	1,059	2,245	1,356	2,018

Table B5. Census Region and Division, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)									
		Northeast		Midwest		South			West	
	All Buildings*	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
All Buildings*	64,783	2,964	9,941	11,595	5,485	12,258	3,393	7,837	3,675	7,635
Office Equipment (more than one may apply)										
Computers	55,627	2,521	8,996	9,882	4,533	10,483	2,724	6,507	3,282	6,698
With Flat Screen Monitors	26,417	1,156	4,839	4,584	1,762	4,768	1,314	3,053	1,365	3,575
Dedicated Servers	36,338	1,656	6,486	6,456	2,796	6,839	1,606	4,204	1,959	4,335
Laser Printers	33,012	1,569	5,526	5,678	2,784	6,059	1,813	3,694	2,165	3,723
Inkjet Printers	32,210	1,204	5,211	5,817	2,489	6,138	1,502	3,840	1,901	4,108
FAX Machines	52,373	2,367	8,806	9,138	4,157	9,973	2,551	6,258	2,983	6,140
Photocopiers	46,257	1,869	8,024	8,273	3,586	8,821	2,211	5,281	2,753	5,439
Number of Computers										
None	9,156	443	945	1,712	952	1,775	669	1,330	393	937
1 to 4	12,395	570	1,511	2,536	1,207	2,124	807	1,488	707	1,444
5 to 9	7,179	Q	1,087	1,112	826	1,154	520	864	450	649
10 to 19	6,610	329	992	1,069	621	1,321	Q	910	371	825
20 to 49	7,414	322	1,182	1,196	736	1,207	437	780	548	1,006
50 to 99	5,376	Q	1,018	744	305	1,265	Q	490	285	784
100 to 249	6,690	Q	1,054	1,221	630	1,353	Q	660	448	869
250 or More	9,963	439	2,151	2,005	208	2,059	Q	1,315	473	1,122
Number of Dedicated Servers										
None	28,445	1,308	3,455	5,139	2,689	5,419	1,788	3,633	1,716	3,299
1 to 4	24,116	1,028	4,219	4,202	2,366	4,155	1,272	2,782	1,428	2,665
5 to 9	3,864	Q	604	754	212	966	Q	Q	Q	601
10 to 19	3,027	Q	437	647	Q	837	Q	Q	Q	414
20 to 49	2,583	Q	411	Q	Q	524	Q	Q	Q	Q
50 or More	2,748	Q	815	Q	Q	Q	Q	Q	Q	Q
Number of Photocopiers										
None	18,526	1,095	1,917	3,322	1,899	3,437	1,182	2,557	921	2,196
One	15,475	683	2,344	2,620	1,615	2,611	1,016	1,833	995	1,757
2 to 4	15,082	643	2,302	2,745	1,281	3,060	659	1,799	887	1,706
5 to 9	5,515	Q	1,250	1,013	388	1,124	Q	405	Q	634
10 or More	10,185	276	2,128	1,894	302	2,026	284	1,243	690	1,341
Energy-Related Space Functions (more than one may apply)										
Commercial Food Preparation	22,223	938	4,078	4,378	1,472	4,196	1,055	2,628	1,209	2,269
Activities with Large Amounts of Hot Water	19,482	995	2,927	3,546	1,678	4,178	949	1,776	1,384	2,048
Separate Computer Area	26,873	1,045	4,880	4,759	1,723	5,236	1,028	3,132	1,607	3,462
HVAC Conservation Features (more than one may apply)										
Variable Air-Volume System	19,597	592	3,188	3,660	1,342	3,818	788	2,743	1,236	2,232
Economizer Cycle	21,108	824	3,317	4,350	1,533	3,815	828	1,988	1,383	3,069
HVAC Maintenance	51,163	2,311	8,736	9,424	3,704	9,547	2,258	5,836	3,065	6,282
Energy Management and Control System (EMCS)	15,630	429	2,573	2,835	965	3,426	542	1,834	857	2,170

Table B5. Census Region and Division, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)									
		Northeast		Midwest		South			West	
	All Buildings*	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
All Buildings*	64,783	2,964	9,941	11,595	5,485	12,258	3,393	7,837	3,675	7,635
Window and Interior Lighting Features (more than one may apply)										
Multipaned Windows	38,910	2,307	7,001	8,023	3,738	7,191	1,685	3,429	2,656	2,880
Tinted Window Glass	29,887	803	4,155	5,393	1,925	6,498	1,169	4,283	1,617	4,043
Reflective Window Glass	8,544	Q	1,436	1,454	711	1,655	257	1,098	489	1,219
External Overhangs or Awnings	17,242	577	2,110	2,537	1,688	3,814	1,022	1,950	1,521	2,025
Skylights or Atriums	12,546	476	2,416	2,338	929	1,831	434	1,656	1,001	1,465
Daylighting Sensors	2,868	Q	319	608	Q	448	Q	Q	Q	674
Specular Reflectors	26,118	1,390	4,444	5,813	1,896	4,553	785	2,533	1,307	3,396
Electronic Ballasts	46,882	2,162	7,125	8,623	3,987	8,835	2,177	5,446	2,905	5,621
Energy Management and Control System (EMCS) for Lighting	4,781	Q	758	988	Q	810	Q	629	Q	923
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]										
Heating	42,722	1,768	7,751	7,595	3,314	7,843	2,124	4,688	2,456	5,183
Cooling	43,205	1,456	7,356	7,147	3,323	8,678	2,175	5,241	2,449	5,380
Lighting	46,987	2,067	6,639	8,846	4,037	9,061	2,340	5,715	2,608	5,674
Office Equipment	19,397	847	3,422	3,645	1,767	3,468	703	2,255	1,030	2,260

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B6. Building Size, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
		Building Size							
	All Buildings*	1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,000 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
All Buildings*	4,645	2,552	889	738	241	129	65	25	7
Principal Building Activity									
Education	386	162	56	60	48	39	16	5	Q
Food Sales	226	164	44	Q	Q	Q	Q	N	N
Food Service	297	202	65	23	Q	Q	N	Q	N
Health Care	129	56	38	19	5	5	3	2	1
Inpatient	8	N	N	Q	Q	Q	Q	2	1
Outpatient	121	56	38	19	Q	3	Q	Q	N
Lodging	142	38	21	38	23	11	7	4	Q
Retail (Other Than Mall)	443	241	97	83	14	Q	4	Q	Q
Office	824	503	127	116	43	17	11	5	2
Public Assembly	277	119	67	69	9	7	6	Q	Q
Public Order and Safety	71	37	Q	Q	Q	Q	Q	Q	Q
Religious Worship	370	152	104	83	27	Q	Q	Q	N
Service	622	434	100	66	17	Q	Q	Q	Q
Warehouse and Storage	597	294	110	130	27	21	8	4	Q
Other	79	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	182	108	Q	Q	13	Q	Q	Q	Q
Year Constructed									
Before 1920	330	174	71	55	19	7	Q	Q	Q
1920 to 1945	527	315	107	64	23	9	5	4	1
1946 to 1959	562	331	90	90	26	14	8	2	1
1960 to 1969	579	298	120	95	33	22	8	3	0
1970 to 1979	731	350	180	122	48	16	10	4	1
1980 to 1989	707	438	98	103	32	20	10	4	2
1990 to 1999	876	481	158	151	39	28	15	4	1
2000 to 2003	334	165	66	58	21	13	8	2	Q
Census Region									
Northeast	726	364	149	127	36	27	15	6	2
Midwest	1,266	725	213	198	71	34	17	8	1
South	1,775	965	361	278	88	49	25	7	2
West	878	498	165	135	46	19	8	5	2
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	855	476	157	147	42	19	9	4	1
5,500-7,000 HDD	1,173	621	226	200	62	36	19	7	2
4,000-5,499 HDD	673	375	129	89	35	26	12	5	2
Fewer than 4,000 HDD	1,276	723	257	185	59	30	16	5	1
2,000 CDD or More and --									
Fewer than 4,000 HDD	669	357	121	117	43	18	8	3	1
Number of Floors									
One	3,136	2,014	564	399	92	46	16	4	Q
Two	1,031	411	239	248	77	35	13	6	Q
Three	339	115	70	74	46	21	11	3	Q
Four to Nine	128	Q	Q	18	26	25	23	8	2
Ten or More	12	N	N	Q	Q	Q	3	4	3

Table B6. Building Size, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
		Building Size							
	All Buildings*	1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,000 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
All Buildings*	4,645	2,552	889	738	241	129	65	25	7
Elevators and Escalators (more than one may apply)									
Any Elevators	309	Q	29	61	81	57	41	19	5
Number of Elevators									
One	208	Q	29	57	62	29	11	4	Q
Two to Five	88	N	N	Q	19	28	29	9	Q
Six or More	13	N	N	Q	Q	Q	Q	6	5
Any Escalators	6	N	Q	Q	N	Q	Q	1	2
Number of Workers (main shift)									
Fewer than 5	2,653	1,879	452	268	36	10	6	Q	Q
5 to 9	778	422	192	134	24	4	Q	Q	N
10 to 19	563	202	146	154	38	16	Q	Q	N
20 to 49	398	43	87	131	82	41	11	2	Q
50 to 99	147	Q	Q	42	44	31	15	4	Q
100 to 249	77	Q	Q	Q	17	21	18	6	Q
250 or More	30	N	N	N	Q	5	10	8	5
Weekly Operating Hours									
Fewer than 40	1,002	689	179	99	20	9	4	Q	Q
40 to 48	1,117	628	238	166	48	26	8	2	Q
49 to 60	1,062	532	197	206	73	33	13	6	1
61 to 84	591	262	114	130	50	18	13	3	1
85 to 167	400	213	84	51	16	20	11	4	Q
Open Continuously	475	228	77	85	35	22	16	9	3
Ownership and Occupancy									
Nongovernment Owned	4,011	2,272	783	625	185	82	43	16	5
Owner Occupied	1,841	980	384	320	91	35	21	7	2
Nonowner Occupied	2,029	1,205	375	293	86	40	20	8	3
Unoccupied	141	87	Q	Q	Q	Q	Q	Q	N
Government Owned	635	280	106	113	56	47	22	9	2
Federal	46	Q	Q	Q	Q	Q	Q	2	1
State	164	77	Q	40	16	9	8	1	Q
Local	425	183	87	64	36	37	12	5	Q
Vacancy Status									
Completely Vacant	157	100	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant	25	Q	Q	Q	Q	Q	Q	N	N
Partially Vacant	548	269	91	108	37	22	12	6	3
Not At All Vacant	3,915	2,175	769	610	191	100	50	17	3
Number of Establishments									
One	3,754	2,131	720	590	163	87	43	15	3
2 to 5	643	311	136	104	50	25	11	5	1
6 to 10	55	Q	Q	22	11	4	4	Q	Q
11 to 20	23	Q	N	Q	Q	5	Q	1	Q
More than 20	14	N	Q	Q	Q	Q	Q	2	1
Currently Unoccupied	157	100	Q	Q	Q	Q	Q	Q	Q

Table B6. Building Size, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
		Building Size							
	All Buildings*	1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,000 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
All Buildings*	4,645	2,552	889	738	241	129	65	25	7
Predominant Exterior Wall Material									
Brick, Stone or Stucco	2,044	978	421	387	135	71	35	13	3
Concrete (Block or Poured)	786	449	130	119	44	26	12	4	1
Concrete Panels	131	36	24	22	20	12	10	4	2
Siding or Shingles	779	587	117	56	12	Q	Q	Q	Q
Metal Panels	825	457	184	142	26	10	4	Q	Q
Window Glass	17	Q	Q	Q	Q	Q	Q	Q	Q
Other	47	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	18	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material									
Built-Up	1,036	494	191	173	91	51	25	8	4
Shingles (Not Wood)	1,325	847	234	183	46	8	4	3	Q
Metal Surfacing	1,288	721	272	225	41	19	7	Q	Q
Synthetic or Rubber	511	206	100	92	41	38	23	9	2
Slate or Tile	263	155	53	36	12	4	Q	Q	Q
Wooden Materials	122	91	Q	Q	Q	Q	Q	Q	N
Concrete	61	Q	Q	Q	Q	Q	Q	Q	Q
Other	16	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	25	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	1,018	489	219	170	77	35	18	8	2
Addition or Annex	256	104	51	44	28	16	8	3	1
Reduction In Floorspace	22	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	741	356	154	130	54	26	13	6	2
Wall or Roof Replacement	370	156	98	60	29	14	8	4	1
Interior Wall Re-Configuration	411	190	84	80	27	15	8	4	2
HVAC Equipment Upgrade	442	164	95	100	43	22	12	6	2
Lighting Upgrade	455	183	94	102	37	21	11	5	2
Window Replacement	310	134	65	64	24	14	6	3	1
Plumbing System Upgrade	315	128	73	66	23	13	7	4	1
Insulation Upgrade	227	124	38	35	16	8	4	2	1
Other Renovation	19	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	1,710	979	349	255	72	32	15	7	1
Building Newer than 1980	1,917	1,084	321	312	92	62	32	10	3
Energy Sources (more than one may apply)									
Electricity	4,404	2,384	834	727	234	128	65	24	7
Natural Gas	2,391	1,110	496	450	168	95	48	19	5
Fuel Oil	451	209	99	61	22	23	21	12	4
District Heat	67	Q	Q	18	10	8	9	4	2
District Chilled Water	33	Q	Q	Q	6	5	6	2	1
Propane	502	295	100	64	18	13	7	4	Q
Other	132	79	Q	Q	Q	Q	Q	Q	Q

Table B6. Building Size, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
		Building Size							
	All Buildings*	1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,000 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
All Buildings*	4,645	2,552	889	738	241	129	65	25	7
Energy End Uses (more than one may apply)									
Buildings with Space Heating	3,982	2,100	782	659	225	123	62	24	6
Buildings with Cooling	3,625	1,841	732	629	216	118	60	23	6
Buildings with Water Heating	3,472	1,715	725	607	217	119	60	23	6
Buildings with Cooking	801	354	155	127	69	50	28	14	4
Buildings with Manufacturing	119	Q	29	28	Q	8	3	2	Q
Buildings with Electricity Generation	149	Q	Q	31	18	25	21	10	4
Percent of Floorspace Heated									
Not Heated	663	452	107	79	16	Q	Q	Q	Q
1 to 50	523	262	112	107	22	13	5	Q	Q
51 to 99	498	258	99	89	27	13	6	4	2
100	2,962	1,580	570	463	176	98	52	19	4
Percent of Floorspace Cooled									
Not Cooled	1,020	710	157	109	25	11	5	Q	Q
1 to 50	985	407	226	225	64	41	14	6	Q
51 to 99	629	279	133	126	43	25	14	7	2
100	2,011	1,155	374	277	109	52	32	10	3
Percent Lit When Open									
Zero	47	Q	Q	Q	Q	Q	N	Q	N
1 to 50	929	524	149	184	47	16	7	Q	Q
51 to 99	1,108	540	220	203	80	37	18	8	2
100	2,176	1,184	444	323	102	69	37	14	4
Building Never Open/ Electricity Not Used	386	268	73	Q	Q	Q	Q	Q	Q
Percent Lit When Closed									
Zero	1,964	1,205	374	272	66	30	12	4	Q
1 to 50	1,882	903	376	352	129	72	35	11	2
51 to 100	136	87	Q	19	Q	5	2	Q	Q
Building Never Closed/ Electricity Not Used	664	356	121	95	41	22	16	9	3
Heating Equipment (more than one may apply)									
Heat Pumps	476	258	63	86	33	21	9	5	1
Packaged Heat Pumps	278	150	40	46	21	12	6	2	1
Split-System Heat Pumps	166	95	Q	30	9	7	Q	Q	Q
Individual Room Heat Pumps	58	Q	Q	15	10	8	3	2	Q
Furnaces	1,864	1,039	391	307	76	30	15	5	1
Individual Space Heaters	819	415	170	142	49	25	12	5	1
District Heat	65	Q	Q	18	9	8	9	4	2
Boilers	579	162	105	138	78	49	31	13	3
Packaged Heating Units	953	423	214	170	69	47	20	7	2
Other	205	121	Q	28	13	6	Q	2	Q

Table B6. Building Size, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
		Building Size							
	All Buildings*	1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,000 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
All Buildings*	4,645	2,552	889	738	241	129	65	25	7
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	1,006	581	207	140	47	19	8	4	1
Heat Pumps	492	260	78	87	33	20	8	4	1
Packaged Heat Pumps	288	147	51	49	19	12	6	2	1
Split-System Heat Pumps	174	100	Q	30	10	6	Q	Q	Q
Individual Room Heat Pumps	58	Q	Q	15	10	7	3	2	1
Individual Air Conditioners	742	383	134	114	62	27	16	4	1
District Chilled Water	33	Q	Q	Q	6	5	6	2	1
Central Chillers	111	Q	Q	26	19	24	17	10	3
Packaged Air Conditioning Units	1,613	678	367	332	119	67	32	13	3
Swamp Coolers	122	58	26	26	Q	Q	Q	Q	Q
Other	40	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	1,197	615	233	220	76	34	13	5	1
Cooling	1,356	662	288	251	87	41	18	8	2
Lighting Equipment Types (more than one may apply)									
Incandescent	2,184	1,070	416	412	145	75	43	17	5
Standard Fluorescent	3,943	2,068	772	665	223	123	62	24	6
Compact Fluorescent	941	382	148	189	102	60	38	16	5
High Intensity Discharge	455	101	88	105	60	51	32	13	4
Halogen	565	205	107	123	55	37	25	10	4
Other	8	Q	Q	Q	N	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	3,176	1,591	642	548	196	114	58	21	6
Commercial Refrigeration	1,007	486	188	138	78	60	36	16	5
Walk-In Units	666	332	124	75	44	44	29	14	5
Cases or Cabinets	825	416	146	118	60	41	27	11	4
Residential-Type Units	2,370	1,159	494	427	148	81	41	16	4
Vending Machines	996	268	181	250	134	89	48	19	6
No Refrigeration	1,469	961	247	190	45	15	7	3	Q
Office Equipment (more than one may apply)									
Computers	3,081	1,405	643	599	222	123	59	23	6
With Flat Screen Monitors	877	310	176	190	94	53	33	17	5
Dedicated Servers	1,175	385	209	286	135	87	46	21	6
Laser Printers	1,970	915	400	386	145	77	32	12	3
Inkjet Printers	1,420	562	291	313	127	71	36	14	5
FAX Machines	2,715	1,227	545	529	206	119	60	22	6
Photocopiers	1,939	706	412	439	189	108	57	22	6

Table B6. Building Size, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
		Building Size							
	All Buildings*	1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,000 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
All Buildings*	4,645	2,552	889	738	241	129	65	25	7
Number of Computers									
None	1,565	1,147	246	139	19	6	Q	Q	Q
1 to 4	1,670	997	373	244	37	13	5	Q	N
5 to 9	559	241	135	128	36	15	4	Q	Q
10 to 19	370	138	74	89	42	17	7	Q	Q
20 to 49	255	Q	60	93	50	18	7	3	Q
50 to 99	110	Q	Q	37	35	21	6	3	Q
100 to 249	79	Q	N	Q	21	30	14	4	Q
250 or More	38	N	N	N	Q	7	15	9	5
Number of Dedicated Servers									
None	3,471	2,166	680	452	106	41	20	4	Q
1 to 4	1,060	380	197	260	112	68	30	12	1
5 to 9	58	Q	Q	Q	13	10	6	2	1
10 to 19	30	Q	Q	Q	Q	5	5	3	1
20 to 49	17	N	N	Q	Q	Q	3	2	1
50 or More	10	N	N	Q	Q	Q	Q	2	2
Number of Photocopiers									
None	2,706	1,846	477	299	52	20	8	Q	Q
One	1,250	565	296	267	78	30	10	3	Q
2 to 4	549	131	110	148	82	50	23	5	Q
5 to 9	85	Q	Q	19	17	15	11	6	Q
10 or More	54	N	N	Q	11	14	13	8	5
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	799	352	155	127	69	50	28	14	4
Activities with Large Amounts of Hot Water	567	161	134	114	71	45	27	12	4
Separate Computer Area	553	115	81	137	91	68	37	18	6
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	466	154	72	92	56	45	30	13	4
Economizer Cycle	508	164	83	100	61	49	33	14	4
HVAC Maintenance	2,581	1,187	507	486	198	113	60	23	6
Energy Management and Control System (EMCS)	252	55	29	49	41	37	26	11	4
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	2,201	1,053	441	421	140	80	46	16	5
Tinted Window Glass	1,323	564	288	254	99	62	36	15	5
Reflective Window Glass	308	146	39	63	27	13	12	5	2
External Overhangs or Awnings	1,233	636	267	202	70	31	19	7	1
Skylights or Atriums	331	114	54	68	37	29	17	10	2
Daylighting Sensors	74	Q	Q	Q	6	5	3	2	1
Specular Reflectors	928	382	163	181	99	51	30	17	5
Electronic Ballasts	2,577	1,265	525	431	175	101	51	22	6
Energy Management and Control System (EMCS) for Lighting	60	Q	Q	Q	11	8	6	4	2

Table B6. Building Size, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
		Building Size							
	All Buildings*	1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,000 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
All Buildings*	4,645	2,552	889	738	241	129	65	25	7
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	2,878	1,529	553	485	160	88	42	17	5
Cooling	2,761	1,424	538	477	169	87	43	18	5
Lighting	3,685	2,001	725	610	191	96	45	14	3
Office Equipment	1,504	756	317	278	86	42	18	6	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B7. Building Size, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
		Building Size							
	All Buildings*	1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,000 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
All Buildings*	64,783	6,789	6,585	11,535	8,668	9,057	9,064	7,176	5,908
Principal Building Activity									
Education	9,874	409	399	931	1,756	2,690	2,167	1,420	Q
Food Sales	1,255	409	356	Q	Q	Q	Q	N	N
Food Service	1,654	544	442	345	Q	Q	N	Q	N
Health Care	3,163	165	280	313	157	364	395	514	973
Inpatient	1,905	N	N	Q	Q	Q	Q	467	973
Outpatient	1,258	165	280	312	Q	206	Q	Q	N
Lodging	5,096	99	160	631	803	841	930	1,185	Q
Retail (Other Than Mall)	4,317	638	725	1,284	578	Q	524	Q	Q
Office	12,208	1,382	938	1,887	1,506	1,209	1,428	1,493	2,365
Public Assembly	3,939	336	518	1,077	301	474	868	Q	Q
Public Order and Safety	1,090	122	Q	Q	Q	Q	Q	Q	Q
Religious Worship	3,754	416	744	1,235	930	Q	Q	Q	N
Service	4,050	1,034	722	1,021	560	Q	Q	Q	Q
Warehouse and Storage	10,078	895	868	2,064	1,043	1,494	1,162	1,322	Q
Other	1,738	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	2,567	239	Q	Q	471	Q	Q	Q	Q
Year Constructed									
Before 1920	3,769	490	502	804	677	491	Q	Q	Q
1920 to 1945	6,871	796	827	988	838	641	704	1,288	790
1946 to 1959	7,045	860	643	1,421	935	927	1,148	569	541
1960 to 1969	8,101	690	865	1,460	1,234	1,483	1,039	947	382
1970 to 1979	10,772	966	1,332	1,869	1,720	1,146	1,411	1,243	1,085
1980 to 1989	10,332	1,149	721	1,647	1,174	1,390	1,496	1,237	1,518
1990 to 1999	12,360	1,324	1,209	2,388	1,352	2,058	1,934	984	1,111
2000 to 2003	5,533	515	486	958	739	921	1,060	609	Q
Census Region									
Northeast	12,905	1,025	1,123	1,972	1,292	2,040	2,117	1,781	1,556
Midwest	17,080	1,895	1,565	3,098	2,567	2,260	2,296	2,196	1,203
South	23,489	2,533	2,658	4,378	3,168	3,435	3,475	1,914	1,928
West	11,310	1,336	1,239	2,087	1,643	1,322	1,177	1,286	1,221
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	10,622	1,307	1,197	2,235	1,451	1,295	1,206	1,115	815
5,500-7,000 HDD	17,335	1,673	1,633	3,140	2,282	2,549	2,652	1,943	1,463
4,000-5,499 HDD	11,504	1,005	964	1,421	1,272	1,823	1,761	1,619	1,639
Fewer than 4,000 HDD	15,739	1,862	1,907	2,865	2,105	2,063	2,286	1,552	1,098
2,000 CDD or More and --									
Fewer than 4,000 HDD	9,584	942	884	1,874	1,558	1,327	1,160	947	893
Number of Floors									
One	25,981	5,192	4,150	6,160	3,296	3,187	2,159	1,134	Q
Two	16,270	1,217	1,814	3,966	2,772	2,456	1,896	1,775	Q
Three	7,501	343	504	1,115	1,631	1,481	1,418	730	Q
Four to Nine	10,085	Q	Q	292	964	1,822	3,150	2,186	1,516
Ten or More	4,947	N	N	Q	Q	Q	442	1,350	3,036

Table B7. Building Size, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
		Building Size							
	All Buildings*	1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,000 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
All Buildings*	64,783	6,789	6,585	11,535	8,668	9,057	9,064	7,176	5,908
Elevators and Escalators (more than one may apply)									
Any Elevators	24,617	Q	228	1,052	2,917	4,066	5,705	5,566	5,026
Number of Elevators									
One	8,221	Q	228	996	2,193	2,001	1,541	1,066	Q
Two to Five	10,129	N	N	Q	714	2,041	3,990	2,670	Q
Six or More	6,268	N	N	Q	Q	Q	Q	1,830	4,218
Any Escalators	2,350	N	Q	Q	N	Q	Q	415	1,708
Number of Workers (main shift)									
Fewer than 5	15,492	4,659	3,323	4,006	1,222	704	804	Q	Q
5 to 9	6,166	1,264	1,373	2,075	836	291	Q	Q	N
10 to 19	7,803	689	1,109	2,456	1,327	1,157	Q	Q	N
20 to 49	10,989	155	689	2,113	2,920	2,865	1,558	533	Q
50 to 99	7,934	Q	Q	692	1,648	2,151	2,014	1,077	Q
100 to 249	6,871	Q	Q	Q	667	1,518	2,455	1,706	Q
250 or More	9,528	N	N	N	Q	371	1,452	2,571	5,087
Weekly Operating Hours									
Fewer than 40	6,863	1,740	1,289	1,464	727	599	544	Q	Q
40 to 48	11,622	1,665	1,751	2,623	1,710	1,802	1,256	507	Q
49 to 60	15,723	1,444	1,465	3,210	2,566	2,255	1,809	1,651	1,324
61 to 84	10,334	727	851	2,095	1,817	1,297	1,791	887	869
85 to 167	7,092	569	653	827	616	1,496	1,499	1,102	Q
Open Continuously	13,149	644	577	1,316	1,232	1,608	2,166	2,624	2,982
Ownership and Occupancy									
Nongovernment Owned	49,421	6,043	5,827	9,738	6,659	5,779	5,958	4,803	4,613
Owner Occupied	23,591	2,682	2,858	5,028	3,197	2,464	2,919	2,048	2,396
Nonowner Occupied	23,914	3,162	2,791	4,530	3,141	2,951	2,714	2,408	2,217
Unoccupied	1,916	199	Q	Q	Q	Q	Q	Q	N
Government Owned	15,363	746	758	1,797	2,009	3,278	3,106	2,373	1,295
Federal	1,956	Q	Q	Q	Q	Q	Q	545	606
State	3,808	206	Q	604	531	620	1,142	408	Q
Local	9,599	498	620	1,044	1,327	2,557	1,644	1,420	Q
Vacancy Status									
Completely Vacant	2,161	223	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant	406	Q	Q	Q	Q	Q	Q	N	N
Partially Vacant	12,382	738	706	1,646	1,310	1,563	1,681	1,943	2,795
Not At All Vacant	49,834	5,813	5,671	9,611	6,888	7,031	6,959	4,845	3,017
Number of Establishments									
One	45,144	5,613	5,304	9,098	5,807	6,218	6,102	4,246	2,756
2 to 5	10,960	916	1,031	1,732	1,837	1,739	1,545	1,361	800
6 to 10	1,958	Q	Q	383	355	273	539	Q	Q
11 to 20	1,951	Q	N	Q	Q	337	Q	389	Q
More than 20	2,609	N	Q	Q	Q	Q	Q	531	1,522
Currently Unoccupied	2,161	223	Q	Q	Q	Q	Q	Q	Q

Table B7. Building Size, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
		Building Size							
	All Buildings*	1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,000 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
All Buildings*	64,783	6,789	6,585	11,535	8,668	9,057	9,064	7,176	5,908
Predominant Exterior Wall Material									
Brick, Stone or Stucco	32,817	2,735	3,103	6,047	4,841	5,038	4,865	3,800	2,387
Concrete (Block or Poured)	10,832	1,137	937	1,976	1,551	1,830	1,665	1,252	485
Concrete Panels	6,559	90	185	367	787	860	1,429	1,142	1,699
Siding or Shingles	4,120	1,412	862	826	419	Q	Q	Q	Q
Metal Panels	7,912	1,280	1,388	2,149	950	721	518	Q	Q
Window Glass	1,024	Q	Q	Q	Q	Q	Q	Q	Q
Other	1,113	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	406	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material									
Built-Up	21,170	1,296	1,429	2,814	3,216	3,566	3,320	2,386	3,143
Shingles (Not Wood)	10,195	2,213	1,688	2,686	1,623	579	486	761	Q
Metal Surfacing	11,944	1,997	2,024	3,508	1,500	1,348	909	Q	Q
Synthetic or Rubber	14,730	580	772	1,494	1,511	2,662	3,134	2,668	1,909
Slate or Tile	2,462	397	378	561	429	307	Q	Q	Q
Wooden Materials	887	213	Q	Q	Q	Q	Q	Q	N
Concrete	2,231	Q	Q	Q	Q	Q	Q	Q	Q
Other	598	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	565	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	17,844	1,283	1,640	2,684	2,826	2,495	2,584	2,260	2,072
Addition or Annex	6,551	288	379	684	1,000	1,121	1,250	825	1,004
Reduction In Floorspace	1,012	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	13,119	959	1,148	2,072	1,993	1,841	1,900	1,709	1,497
Wall or Roof Replacement	8,070	431	746	975	1,024	990	1,271	1,271	1,363
Interior Wall Re-Configuration	8,518	537	644	1,210	968	1,045	1,338	1,323	1,454
HVAC Equipment Upgrade	10,768	461	714	1,548	1,564	1,551	1,644	1,664	1,622
Lighting Upgrade	10,275	489	715	1,568	1,360	1,489	1,702	1,510	1,442
Window Replacement	6,354	366	507	987	862	998	938	865	830
Plumbing System Upgrade	7,144	326	563	1,045	811	878	1,163	1,163	1,193
Insulation Upgrade	4,015	334	306	582	562	511	493	690	536
Other Renovation	523	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	18,714	2,518	2,529	3,858	2,577	2,194	1,991	2,086	961
Building Newer than 1980	28,225	2,988	2,416	4,993	3,265	4,369	4,489	2,831	2,875
Energy Sources (more than one may apply)									
Electricity	63,307	6,346	6,197	11,370	8,385	9,031	9,018	7,051	5,908
Natural Gas	43,468	3,084	3,692	7,053	6,025	6,683	6,645	5,679	4,606
Fuel Oil	15,157	600	716	966	825	1,740	2,927	3,400	3,981
District Heat	5,443	Q	Q	289	369	574	1,399	1,018	1,693
District Chilled Water	2,853	Q	Q	Q	240	332	793	495	822
Propane	7,076	806	725	1,014	638	925	989	1,165	Q
Other	1,401	199	Q	Q	Q	Q	Q	Q	Q

Table B7. Building Size, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
		Building Size							
	All Buildings*	1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,000 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
All Buildings*	64,783	6,789	6,585	11,535	8,668	9,057	9,064	7,176	5,908
Energy End Uses (more than one may apply)									
Buildings with Space Heating	60,028	5,668	5,786	10,387	8,060	8,718	8,710	6,907	5,792
Buildings with Cooling	56,940	5,007	5,408	9,922	7,776	8,331	8,339	6,565	5,591
Buildings with Water Heating	56,478	4,759	5,348	9,562	7,734	8,412	8,300	6,680	5,683
Buildings with Cooking	22,237	997	1,136	1,954	2,511	3,575	3,991	4,047	4,025
Buildings with Manufacturing	3,138	Q	214	472	Q	540	473	605	Q
Buildings with Electricity Generation	12,821	Q	Q	491	662	1,921	2,877	2,977	3,694
Percent of Floorspace Heated									
Not Heated	4,756	1,121	799	1,148	608	Q	Q	Q	Q
1 to 50	6,850	738	889	1,742	842	916	703	Q	Q
51 to 99	8,107	731	724	1,420	941	926	779	1,168	1,418
100	45,071	4,198	4,173	7,225	6,278	6,877	7,228	5,404	3,688
Percent of Floorspace Cooled									
Not Cooled	7,843	1,782	1,177	1,612	893	726	725	Q	Q
1 to 50	16,598	1,206	1,704	3,517	2,369	2,926	1,984	1,822	Q
51 to 99	13,211	781	995	2,034	1,479	1,751	1,954	2,057	2,159
100	27,132	3,021	2,710	4,372	3,928	3,654	4,402	2,685	2,360
Percent Lit When Open									
Zero	293	Q	Q	Q	Q	Q	N	Q	N
1 to 50	10,203	1,372	1,124	2,810	1,705	1,146	1,025	Q	Q
51 to 99	18,288	1,482	1,671	3,179	2,807	2,570	2,442	2,389	1,748
100	32,789	3,158	3,233	5,173	3,702	4,903	5,187	3,985	3,448
Building Never Open/ Electricity Not Used	3,210	665	521	Q	Q	Q	Q	Q	Q
Percent Lit When Closed									
Zero	17,385	3,057	2,782	4,211	2,271	2,088	1,654	1,059	Q
1 to 50	30,948	2,529	2,785	5,545	4,713	4,960	4,909	3,195	2,312
51 to 100	2,093	237	Q	314	Q	374	316	Q	Q
Building Never Closed/ Electricity Not Used	14,357	965	895	1,465	1,481	1,634	2,185	2,749	2,982
Heating Equipment (more than one may apply)									
Heat Pumps	8,814	685	462	1,400	1,150	1,524	1,245	1,295	1,053
Packaged Heat Pumps	5,442	400	286	784	740	878	829	671	854
Split-System Heat Pumps	2,581	257	Q	487	339	467	Q	Q	Q
Individual Room Heat Pumps	2,691	Q	Q	255	322	535	499	710	Q
Furnaces	19,615	2,902	2,891	4,653	2,761	2,086	1,974	1,456	891
Individual Space Heaters	12,545	1,047	1,282	2,129	1,748	1,819	1,625	1,313	1,582
District Heat	5,166	Q	Q	289	325	549	1,365	1,010	1,528
Boilers	20,423	461	773	2,164	2,829	3,497	4,283	3,844	2,573
Packaged Heating Units	18,021	1,159	1,599	2,765	2,449	3,328	2,797	2,156	1,769
Other	3,262	330	Q	456	419	450	Q	514	Q

Table B7. Building Size, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
		Building Size							
	All Buildings*	1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,000 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
All Buildings*	64,783	6,789	6,585	11,535	8,668	9,057	9,064	7,176	5,908
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	11,035	1,568	1,523	2,173	1,683	1,388	993	1,136	569
Heat Pumps	9,041	675	563	1,441	1,155	1,440	1,158	1,273	1,334
Packaged Heat Pumps	5,426	392	369	847	693	830	792	654	849
Split-System Heat Pumps	2,606	255	Q	481	377	432	Q	Q	Q
Individual Room Heat Pumps	2,940	Q	Q	255	335	506	449	714	612
Individual Air Conditioners	12,558	972	1,012	1,740	2,301	1,958	2,259	1,223	1,095
District Chilled Water	2,853	Q	Q	Q	240	332	793	495	822
Central Chillers	11,636	Q	Q	456	729	1,722	2,366	3,023	3,278
Packaged Air Conditioning Units	29,969	1,957	2,741	5,260	4,264	4,732	4,504	3,834	2,678
Swamp Coolers	1,561	179	207	378	Q	Q	Q	Q	Q
Other	1,232	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	16,403	1,645	1,733	3,440	2,811	2,363	1,735	1,541	1,134
Cooling	20,995	1,781	2,122	3,924	3,192	2,895	2,593	2,396	2,091
Lighting Equipment Types (more than one may apply)									
Incandescent	38,528	2,918	3,061	6,424	5,176	5,296	6,042	4,913	4,698
Standard Fluorescent	59,688	5,579	5,726	10,458	8,001	8,667	8,612	6,839	5,806
Compact Fluorescent	27,571	1,123	1,109	2,944	3,662	4,330	5,268	4,610	4,526
High Intensity Discharge	20,643	312	686	1,721	2,191	3,646	4,349	3,918	3,819
Halogen	17,703	604	781	1,973	2,013	2,599	3,473	2,775	3,485
Other	269	Q	Q	Q	N	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	52,974	4,333	4,738	8,646	7,068	8,038	8,096	6,238	5,816
Commercial Refrigeration	26,768	1,310	1,406	2,230	2,829	4,291	5,116	4,606	4,979
Walk-In Units	20,254	916	909	1,188	1,626	3,124	4,148	4,199	4,146
Cases or Cabinets	20,424	1,100	1,116	1,893	2,185	2,978	3,890	3,270	3,991
Residential-Type Units	38,884	3,174	3,609	6,725	5,289	5,760	5,667	4,524	4,136
Vending Machines	35,335	830	1,407	4,072	4,910	6,342	6,578	5,691	5,506
No Refrigeration	11,809	2,456	1,847	2,889	1,600	1,019	968	938	Q
Office Equipment (more than one may apply)									
Computers	55,627	3,950	4,777	9,418	7,966	8,680	8,262	6,759	5,816
With Flat Screen Monitors	26,417	861	1,312	3,027	3,385	3,765	4,501	4,861	4,704
Dedicated Servers	36,338	1,211	1,579	4,642	4,871	6,200	6,295	6,091	5,448
Laser Printers	33,012	2,565	3,033	6,052	5,190	5,342	4,518	3,527	2,785
Inkjet Printers	32,210	1,648	2,174	4,979	4,581	5,171	5,083	4,041	4,534
FAX Machines	52,373	3,443	4,077	8,408	7,442	8,424	8,266	6,498	5,816
Photocopiers	46,257	2,066	3,101	6,993	6,772	7,669	7,949	6,358	5,349

Table B7. Building Size, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
		Building Size							
	All Buildings*	1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,000 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
All Buildings*	64,783	6,789	6,585	11,535	8,668	9,057	9,064	7,176	5,908
Number of Computers									
None	9,156	2,839	1,808	2,117	702	377	Q	Q	Q
1 to 4	12,395	2,660	2,707	3,643	1,296	904	799	Q	N
5 to 9	7,179	706	1,019	2,035	1,284	1,109	511	Q	Q
10 to 19	6,610	475	556	1,420	1,427	1,208	983	Q	Q
20 to 49	7,414	Q	487	1,498	1,850	1,291	1,015	849	Q
50 to 99	5,376	Q	Q	659	1,218	1,420	880	784	Q
100 to 249	6,690	Q	N	Q	823	2,180	1,943	1,228	Q
250 or More	9,963	N	N	N	Q	568	2,129	2,828	4,370
Number of Dedicated Servers									
None	28,445	5,578	5,006	6,893	3,798	2,857	2,769	1,085	Q
1 to 4	24,116	1,189	1,478	4,173	4,034	4,810	4,085	3,426	921
5 to 9	3,864	Q	Q	Q	451	744	764	667	874
10 to 19	3,027	Q	Q	Q	Q	370	725	878	767
20 to 49	2,583	N	N	Q	Q	Q	523	475	1,103
50 or More	2,748	N	N	Q	Q	Q	Q	645	1,783
Number of Photocopiers									
None	18,526	4,723	3,484	4,542	1,897	1,388	1,115	Q	Q
One	15,475	1,621	2,196	4,169	2,706	2,118	1,525	897	Q
2 to 4	15,082	411	846	2,373	3,006	3,529	3,129	1,402	Q
5 to 9	5,515	Q	Q	360	636	1,037	1,526	1,600	Q
10 or More	10,185	N	N	Q	425	985	1,770	2,459	4,456
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	22,223	996	1,136	1,954	2,500	3,575	3,991	4,047	4,025
Activities with Large Amounts of Hot Water	19,482	456	1,021	1,865	2,506	3,183	3,754	3,393	3,303
Separate Computer Area	26,873	361	608	2,211	3,365	4,857	5,204	5,175	5,092
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	19,597	466	583	1,492	2,059	3,184	4,173	3,848	3,792
Economizer Cycle	21,108	509	593	1,618	2,180	3,419	4,655	4,244	3,891
HVAC Maintenance	51,163	3,363	3,770	7,883	7,144	7,984	8,448	6,822	5,749
Energy Management and Control System (EMCS)	15,630	166	197	850	1,493	2,629	3,682	3,079	3,532
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	38,910	2,978	3,265	6,589	5,040	5,692	6,386	4,645	4,315
Tinted Window Glass	29,887	1,580	2,211	4,134	3,633	4,413	4,880	4,559	4,477
Reflective Window Glass	8,544	387	309	986	967	979	1,588	1,565	1,763
External Overhangs or Awnings	17,242	1,709	1,946	3,208	2,551	2,109	2,473	2,044	1,203
Skylights or Atriums	12,546	351	406	1,095	1,443	2,080	2,360	2,794	2,016
Daylighting Sensors	2,868	Q	Q	Q	206	376	445	675	744
Specular Reflectors	26,118	1,010	1,175	2,856	3,599	3,603	4,186	4,932	4,758
Electronic Ballasts	46,882	3,450	3,896	6,942	6,331	7,158	7,105	6,450	5,550
Energy Management and Control System (EMCS) for Lighting	4,781	Q	Q	Q	405	601	892	1,126	1,519

Table B7. Building Size, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
		Building Size							
	All Buildings*	1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,000 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
All Buildings*	64,783	6,789	6,585	11,535	8,668	9,057	9,064	7,176	5,908
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	42,722	4,120	4,041	7,629	5,654	6,193	5,841	4,918	4,325
Cooling	43,205	3,819	3,979	7,515	6,038	6,185	6,088	5,236	4,346
Lighting	46,987	5,331	5,358	9,553	6,830	6,792	6,346	4,012	2,765
Office Equipment	19,397	2,164	2,319	4,276	3,124	2,917	2,504	1,701	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B8. Year Constructed, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
		Year Constructed							
	All Buildings*	1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
All Buildings*	4,645	330	527	562	579	731	707	876	334
Building Floorspace (Square Feet)									
1,001 to 5,000	2,552	174	315	331	298	350	438	481	165
5,001 to 10,000	889	71	107	90	120	180	98	158	66
10,001 to 25,000	738	55	64	90	95	122	103	151	58
25,001 to 50,000	241	19	23	26	33	48	32	39	21
50,001 to 100,000	129	7	9	14	22	16	20	28	13
100,001 to 200,000	65	Q	5	8	8	10	10	15	8
200,001 to 500,000	25	Q	4	2	3	4	4	4	2
Over 500,000	7	Q	1	1	0	1	2	1	Q
Principal Building Activity									
Education	386	12	26	78	60	58	44	75	32
Food Sales	226	Q	Q	Q	Q	Q	33	56	Q
Food Service	297	32	34	30	Q	46	46	66	Q
Health Care	129	Q	10	25	10	16	19	36	10
Inpatient	8	Q	Q	Q	1	2	2	0	Q
Outpatient	121	Q	Q	Q	Q	14	18	36	Q
Lodging	142	Q	11	17	25	25	21	30	6
Retail (Other Than Mall)	443	37	66	62	59	90	44	68	17
Office	824	70	85	75	116	145	153	142	39
Public Assembly	277	31	36	45	30	44	31	42	18
Public Order and Safety	71	Q	Q	Q	Q	Q	Q	21	Q
Religious Worship	370	65	52	58	54	41	43	35	23
Service	622	Q	90	59	75	117	108	110	42
Warehouse and Storage	597	20	39	44	47	78	108	164	98
Other	79	Q	Q	Q	Q	Q	Q	17	Q
Vacant	182	Q	35	Q	Q	Q	Q	Q	Q
Census Region									
Northeast	726	122	121	105	108	71	97	69	31
Midwest	1,266	139	163	157	131	196	163	228	90
South	1,775	47	152	161	192	297	351	411	163
West	878	21	91	138	148	167	95	168	51
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	855	113	80	103	114	131	104	148	63
5,500-7,000 HDD	1,173	130	155	167	146	185	162	170	57
4,000-5,499 HDD	673	49	103	84	85	95	94	115	46
Fewer than 4,000 HDD	1,276	31	126	167	152	232	192	280	95
2,000 CDD or More and --									
Fewer than 4,000 HDD	669	Q	64	40	81	88	153	163	73
Number of Floors									
One	3,136	80	236	374	402	536	536	699	272
Two	1,031	116	187	135	122	148	130	141	51
Three	339	92	78	46	42	32	21	23	5
Four to Nine	128	41	25	6	10	13	16	11	6
Ten or More	12	Q	2	1	2	1	3	Q	Q

Table B8. Year Constructed, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
		Year Constructed							
	All Buildings*	1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
All Buildings*	4,645	330	527	562	579	731	707	876	334
Elevators and Escalators (more than one may apply)									
Any Elevators	309	36	42	25	37	49	42	46	32
Number of Elevators									
One	208	26	33	18	25	31	20	30	24
Two to Five	88	8	7	5	10	16	19	14	8
Six or More	13	Q	1	1	1	2	3	2	Q
Any Escalators	6	Q	Q	Q	Q	Q	Q	Q	Q
Number of Workers (main shift)									
Fewer than 5	2,653	203	325	344	331	394	383	481	192
5 to 9	778	62	97	90	87	118	148	128	49
10 to 19	563	30	51	61	74	91	69	135	49
20 to 49	398	21	37	46	48	85	54	83	25
50 to 99	147	11	10	14	21	23	30	26	13
100 to 249	77	Q	5	5	14	15	14	18	4
250 or More	30	Q	2	2	3	5	9	6	2
Weekly Operating Hours									
Fewer than 40	1,002	115	127	156	130	100	150	150	73
40 to 48	1,117	72	144	144	122	202	161	212	60
49 to 60	1,062	62	121	127	139	175	192	181	65
61 to 84	591	44	75	65	75	126	66	91	50
85 to 167	400	25	36	33	51	52	60	106	37
Open Continuously	475	12	24	37	63	76	77	136	49
Ownership and Occupancy									
Nongovernment Owned	4,011	304	461	463	482	638	624	759	280
Owner Occupied	1,841	168	222	213	242	286	273	327	110
Nonowner Occupied	2,029	125	206	227	224	334	326	423	163
Unoccupied	141	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	635	25	67	99	97	92	83	117	55
Federal	46	Q	8	Q	Q	Q	Q	Q	Q
State	164	Q	15	22	28	25	24	30	Q
Local	425	19	44	74	56	60	55	84	33
Vacancy Status									
Completely Vacant	157	Q	35	Q	Q	Q	Q	Q	Q
Mostly Vacant	25	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	548	57	72	57	52	58	85	113	54
Not At All Vacant	3,915	255	420	475	499	654	591	749	271
Number of Establishments									
One	3,754	248	402	449	479	599	545	746	286
2 to 5	643	61	84	78	74	92	111	106	37
6 to 10	55	Q	Q	Q	7	12	12	Q	Q
11 to 20	23	Q	Q	Q	Q	7	4	Q	Q
More than 20	14	Q	Q	Q	Q	3	4	Q	Q
Currently Unoccupied	157	Q	35	Q	Q	Q	Q	Q	Q

Table B8. Year Constructed, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
		Year Constructed							
	All Buildings*	1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
All Buildings*	4,645	330	527	562	579	731	707	876	334
Predominant Exterior Wall Material									
Brick, Stone or Stucco	2,044	195	348	273	265	296	257	303	107
Concrete (Block or Poured)	786	23	65	170	136	126	99	111	58
Concrete Panels	131	Q	Q	Q	9	30	33	21	19
Siding or Shingles	779	100	83	71	92	96	109	188	40
Metal Panels	825	Q	Q	32	66	172	196	236	104
Window Glass	17	N	Q	Q	Q	Q	2	Q	Q
Other	47	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	18	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material									
Built-Up	1,036	64	178	156	157	178	127	141	35
Shingles (Not Wood)	1,325	132	134	178	186	190	200	225	80
Metal Surfacing	1,288	39	65	76	110	224	250	349	174
Synthetic or Rubber	511	61	79	69	72	72	72	59	27
Slate or Tile	263	21	47	36	Q	31	25	75	Q
Wooden Materials	122	Q	Q	Q	Q	Q	Q	Q	Q
Concrete	61	N	Q	Q	Q	Q	9	Q	Q
Other	16	N	N	Q	Q	Q	Q	Q	Q
No One Major Type	25	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	1,018	156	201	225	199	237	N	N	N
Addition or Annex	256	21	37	48	65	85	N	N	N
Reduction In Floorspace	22	Q	Q	Q	Q	Q	N	N	N
Cosmetic Improvements	741	127	156	174	138	146	N	N	N
Wall or Roof Replacement	370	53	81	84	74	78	N	N	N
Interior Wall Re-Configuration	411	73	79	85	74	99	N	N	N
HVAC Equipment Upgrade	442	70	89	107	75	100	N	N	N
Lighting Upgrade	455	80	100	109	82	84	N	N	N
Window Replacement	310	63	70	74	50	53	N	N	N
Plumbing System Upgrade	315	52	78	84	48	53	N	N	N
Insulation Upgrade	227	46	46	60	29	47	N	N	N
Other Renovation	19	Q	Q	Q	Q	Q	N	N	N
No Renovations Since 1980	1,710	173	326	337	380	494	N	N	N
Building Newer than 1980	1,917	N	N	N	N	N	707	876	334
Energy Sources (more than one may apply)									
Electricity	4,404	318	499	541	571	700	668	809	298
Natural Gas	2,391	200	338	313	309	391	303	419	118
Fuel Oil	451	75	52	75	61	59	63	49	17
District Heat	67	6	12	15	13	6	5	8	Q
District Chilled Water	33	Q	Q	4	4	5	5	8	Q
Propane	502	43	37	52	63	68	90	95	54
Other	132	Q	Q	Q	21	49	Q	Q	Q

Table B8. Year Constructed, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
		Year Constructed							
	All Buildings*	1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
All Buildings*	4,645	330	527	562	579	731	707	876	334
Energy End Uses (more than one may apply)									
Buildings with Space Heating	3,982	302	442	493	524	648	618	719	236
Buildings with Cooling	3,625	232	382	430	467	609	577	695	234
Buildings with Water Heating	3,472	266	367	416	444	582	531	642	224
Buildings with Cooking	801	71	87	119	92	112	112	144	65
Buildings with Manufacturing	119	Q	Q	Q	17	28	14	19	Q
Buildings with Electricity Generation	149	8	8	13	16	28	38	26	12
Percent of Floorspace Heated									
Not Heated	663	27	85	69	55	83	88	157	98
1 to 50	523	48	60	55	65	68	84	93	50
51 to 99	498	55	70	70	52	82	73	78	18
100	2,962	200	312	368	407	497	460	549	168
Percent of Floorspace Cooled									
Not Cooled	1,020	98	146	132	112	121	129	181	100
1 to 50	985	95	107	125	131	146	151	165	65
51 to 99	629	50	79	81	64	133	90	97	35
100	2,011	87	196	224	272	331	335	433	133
Percent Lit When Open									
Zero	47	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	929	117	113	125	131	106	131	159	47
51 to 99	1,108	81	124	134	133	199	167	192	77
100	2,176	102	233	253	279	380	348	429	153
Building Never Open/ Electricity Not Used	386	27	54	48	Q	42	56	84	40
Percent Lit When Closed									
Zero	1,964	171	213	225	255	330	282	334	153
1 to 50	1,882	125	243	266	240	283	285	347	91
51 to 100	136	Q	Q	Q	18	17	26	19	Q
Building Never Closed/ Electricity Not Used	664	24	52	58	66	101	114	176	73
Heating Equipment (more than one may apply)									
Heat Pumps	476	Q	31	44	50	82	102	120	39
Packaged Heat Pumps	278	Q	Q	25	30	60	63	59	25
Split-System Heat Pumps	166	Q	Q	Q	14	24	33	55	Q
Individual Room Heat Pumps	58	Q	Q	9	Q	6	10	11	6
Furnaces	1,864	151	235	259	242	330	252	299	96
Individual Space Heaters	819	65	72	120	114	130	119	152	47
District Heat	65	Q	12	13	13	6	4	8	Q
Boilers	579	105	103	98	82	65	43	56	27
Packaged Heating Units	953	25	63	79	106	176	209	226	70
Other	205	Q	Q	Q	24	40	40	35	15

Table B8. Year Constructed, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
		Year Constructed							
	All Buildings*	1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
All Buildings*	4,645	330	527	562	579	731	707	876	334
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	1,006	83	135	115	112	157	165	184	55
Heat Pumps	492	Q	36	48	50	77	105	122	46
Packaged Heat Pumps	288	Q	Q	27	30	55	66	63	26
Split-System Heat Pumps	174	Q	Q	Q	14	24	33	53	Q
Individual Room Heat Pumps	58	Q	Q	9	Q	6	10	11	7
Individual Air Conditioners	742	82	109	124	130	121	90	72	14
District Chilled Water	33	Q	Q	4	4	5	5	8	Q
Central Chillers	111	4	8	11	22	24	19	16	8
Packaged Air Conditioning Units	1,613	81	147	180	201	294	251	334	125
Swamp Coolers	122	Q	Q	Q	Q	35	18	19	Q
Other	40	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	1,197	117	177	189	211	290	212	N	N
Cooling	1,356	133	198	230	250	319	227	N	N
Lighting Equipment Types (more than one may apply)									
Incandescent	2,184	229	276	294	295	362	294	327	109
Standard Fluorescent	3,943	272	447	491	517	651	598	726	242
Compact Fluorescent	941	75	113	110	111	151	136	177	69
High Intensity Discharge	455	17	34	55	45	81	65	116	42
Halogen	565	55	48	62	51	83	76	128	63
Other	8	Q	N	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)									
Any Refrigeration	3,176	243	342	401	396	511	487	598	199
Commercial Refrigeration	1,007	77	111	140	112	155	145	189	78
Walk-In Units	666	52	61	71	78	109	109	129	58
Cases or Cabinets	825	69	92	115	94	121	118	156	59
Residential-Type Units	2,370	201	256	308	300	379	365	428	134
Vending Machines	996	40	93	114	156	175	148	205	65
No Refrigeration	1,469	87	186	161	183	220	220	278	136
Office Equipment (more than one may apply)									
Computers	3,081	198	320	343	398	512	491	609	210
With Flat Screen Monitors	877	41	93	83	117	165	148	169	60
Dedicated Servers	1,175	56	107	101	154	219	212	235	90
Laser Printers	1,970	132	206	228	272	337	298	368	128
Inkjet Printers	1,420	86	127	145	165	261	239	303	95
FAX Machines	2,715	172	304	293	352	457	431	544	162
Photocopiers	1,939	132	215	226	250	314	296	371	135

Table B8. Year Constructed, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
		Year Constructed							
	All Buildings*	1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
All Buildings*	4,645	330	527	562	579	731	707	876	334
Number of Computers									
None	1,565	132	207	219	181	218	216	267	125
1 to 4	1,670	124	187	204	218	243	263	318	113
5 to 9	559	34	62	52	69	100	94	113	34
10 to 19	370	21	24	28	49	69	53	96	30
20 to 49	255	12	28	31	24	64	35	46	15
50 to 99	110	Q	12	17	18	15	24	14	8
100 to 249	79	4	5	9	14	13	14	14	6
250 or More	38	Q	3	3	5	8	9	7	3
Number of Dedicated Servers									
None	3,471	273	420	460	426	512	495	640	244
1 to 4	1,060	51	100	92	136	202	183	214	83
5 to 9	58	Q	Q	Q	8	7	12	13	5
10 to 19	30	Q	Q	Q	4	Q	9	6	Q
20 to 49	17	Q	Q	Q	2	5	6	Q	Q
50 or More	10	Q	Q	Q	Q	1	2	1	Q
Number of Photocopiers									
None	2,706	198	312	336	329	417	411	504	200
One	1,250	92	145	159	163	184	165	258	84
2 to 4	549	34	59	55	67	103	103	85	43
5 to 9	85	Q	9	4	13	17	15	19	5
10 or More	54	Q	3	7	7	11	13	9	3
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	799	71	87	118	90	112	112	144	65
Activities with Large Amounts of Hot Water	567	33	63	82	69	97	59	117	46
Separate Computer Area	553	27	48	57	73	88	104	109	47
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	466	16	34	42	38	85	76	126	48
Economizer Cycle	508	18	29	45	53	103	93	105	61
HVAC Maintenance	2,581	170	275	293	327	416	413	511	176
Energy Management and Control System (EMCS)	252	7	20	24	33	29	48	66	26
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	2,201	156	196	232	225	332	373	500	186
Tinted Window Glass	1,323	67	115	128	144	228	261	276	105
Reflective Window Glass	308	13	23	33	26	42	63	74	34
External Overhangs or Awnings	1,233	88	132	138	165	223	190	215	81
Skylights or Atriums	331	21	38	30	30	49	60	70	33
Daylighting Sensors	74	Q	Q	Q	Q	14	13	18	4
Specular Reflectors	928	55	93	98	112	143	152	186	89
Electronic Ballasts	2,577	155	274	296	311	439	386	519	196
Energy Management and Control System (EMCS) for Lighting	60	Q	Q	Q	6	7	10	24	6

Table B8. Year Constructed, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
		Year Constructed							
	All Buildings*	1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
All Buildings*	4,645	330	527	562	579	731	707	876	334
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	2,878	217	317	386	380	473	427	500	179
Cooling	2,761	178	292	360	368	454	418	514	177
Lighting	3,685	273	429	463	475	603	542	659	241
Office Equipment	1,504	104	172	192	189	239	228	277	104

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B9. Year Constructed, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
		Year Constructed							
	All Buildings*	1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
All Buildings*	64,783	3,769	6,871	7,045	8,101	10,772	10,332	12,360	5,533
Building Floorspace (Square Feet)									
1,001 to 5,000	6,789	490	796	860	690	966	1,149	1,324	515
5,001 to 10,000	6,585	502	827	643	865	1,332	721	1,209	486
10,001 to 25,000	11,535	804	988	1,421	1,460	1,869	1,647	2,388	958
25,001 to 50,000	8,668	677	838	935	1,234	1,720	1,174	1,352	739
50,001 to 100,000	9,057	491	641	927	1,483	1,146	1,390	2,058	921
100,001 to 200,000	9,064	Q	704	1,148	1,039	1,411	1,496	1,934	1,060
200,001 to 500,000	7,176	Q	1,288	569	947	1,243	1,237	984	609
Over 500,000	5,908	Q	790	541	382	1,085	1,518	1,111	Q
Principal Building Activity									
Education	9,874	410	1,036	1,744	1,665	1,410	1,284	1,546	778
Food Sales	1,255	Q	Q	Q	Q	Q	188	281	Q
Food Service	1,654	281	138	194	Q	227	182	327	Q
Health Care	3,163	Q	203	445	395	754	522	578	185
Inpatient	1,905	Q	Q	318	304	556	358	161	Q
Outpatient	1,258	Q	Q	Q	Q	197	164	416	Q
Lodging	5,096	Q	Q	276	744	840	980	807	489
Retail (Other Than Mall)	4,317	220	445	360	543	900	361	1,080	407
Office	12,208	749	1,186	917	1,335	2,162	3,296	1,913	650
Public Assembly	3,939	323	353	780	408	594	448	734	301
Public Order and Safety	1,090	Q	Q	Q	Q	Q	Q	327	Q
Religious Worship	3,754	586	334	603	502	412	414	566	338
Service	4,050	Q	473	440	447	996	511	777	263
Warehouse and Storage	10,078	254	1,208	567	1,051	1,462	1,501	2,723	1,312
Other	1,738	Q	Q	Q	Q	Q	Q	492	Q
Vacant	2,567	Q	465	Q	Q	Q	Q	Q	Q
Census Region									
Northeast	12,905	1,406	2,504	2,094	1,737	1,723	1,374	1,370	698
Midwest	17,080	1,552	2,099	2,027	2,229	3,237	1,949	2,746	1,240
South	23,489	516	1,348	1,795	2,538	3,726	4,768	6,241	2,557
West	11,310	295	920	1,128	1,597	2,086	2,241	2,004	1,038
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	10,622	1,227	1088	1075	1,405	2,215	1031	1,838	742
5,500-7,000 HDD	17,335	1,407	2,217	2,445	2,302	2,967	2,357	2,492	1,148
4,000-5,499 HDD	11,504	731	1,960	1,388	1,509	1,729	1,673	1,602	912
Fewer than 4,000 HDD	15,739	281	1,218	1,596	1,883	2,508	3,115	3,741	1,396
2,000 CDD or More and --									
Fewer than 4,000 HDD	9,584	Q	388	541	1,001	1,354	2,156	2,687	1,334
Number of Floors									
One	25,981	348	1,730	2,771	3,474	4,484	3,856	6,577	2,742
Two	16,270	913	1,539	2,095	2,188	2,977	2,336	2,976	1,245
Three	7,501	856	1,396	1,218	795	946	724	960	605
Four to Nine	10,085	1,393	1,525	485	1,013	1,570	1,924	1,485	690
Ten or More	4,947	Q	681	475	630	797	1,492	Q	Q

Table B9. Year Constructed, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
		Year Constructed							
	All Buildings*	1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
All Buildings*	64,783	3,769	6,871	7,045	8,101	10,772	10,332	12,360	5,533
Elevators and Escalators (more than one may apply)									
Any Elevators	24,617	1,624	2,976	1,989	2,914	3,790	4,941	4,093	2,290
Number of Elevators									
One	8,221	588	998	806	1,164	1,103	981	1,687	893
Two to Five	10,129	815	1,334	672	1,123	1,501	2,168	1,577	939
Six or More	6,268	Q	644	512	626	1,187	1,792	830	Q
Any Escalators	2,350	Q	Q	Q	Q	Q	Q	Q	Q
Number of Workers (main shift)									
Fewer than 5	15,492	1,262	2,211	1,897	1,967	2,456	1,625	2,644	1,431
5 to 9	6,166	524	608	634	642	1,016	1,035	1,206	500
10 to 19	7,803	481	1,053	896	825	1,331	889	1,565	763
20 to 49	10,989	713	909	1,536	1,408	1,886	1,274	2,289	973
50 to 99	7,934	400	668	712	1,201	1,092	1,432	1,557	871
100 to 249	6,871	Q	518	604	1,145	1,230	1,403	1,338	471
250 or More	9,528	Q	903	767	913	1,760	2,674	1,760	524
Weekly Operating Hours									
Fewer than 40	6,863	811	841	888	990	977	830	900	625
40 to 48	11,622	563	1,339	1,725	1,200	1,987	1,891	2,103	813
49 to 60	15,723	898	2,058	1,608	2,217	2,522	2,643	2,749	1,028
61 to 84	10,334	615	1,009	1,105	1,103	1,778	1,734	1,950	1,041
85 to 167	7,092	337	398	619	855	1,157	846	1,974	906
Open Continuously	13,149	545	1,227	1,100	1,735	2,351	2,388	2,684	1,120
Ownership and Occupancy									
Nongovernment Owned	49,421	3,119	4,879	4,994	5,660	8,167	8,564	9,529	4,508
Owner Occupied	23,591	1,716	2,883	2,514	2,917	3,410	4,095	4,039	2,016
Nonowner Occupied	23,914	1,357	1,597	2,252	2,452	4,315	4,336	5,289	2,315
Unoccupied	1,916	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	15,363	650	1,992	2,050	2,441	2,605	1,768	2,830	1,025
Federal	1,956	Q	Q	Q	333	Q	Q	Q	Q
State	3,808	Q	282	377	819	738	566	713	Q
Local	9,599	440	1,020	1,551	1,289	1,572	1,094	1,758	874
Vacancy Status									
Completely Vacant	2,161	Q	465	Q	Q	Q	Q	Q	Q
Mostly Vacant	406	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	12,382	994	1,623	1,063	1,342	1,751	2,599	1,953	1,056
Not At All Vacant	49,834	2,519	4,784	5,629	6,283	8,568	7,581	10,197	4,272
Number of Establishments									
One	45,144	2,460	4,557	5,229	5,582	7,604	6,287	9,151	4,273
2 to 5	10,960	788	997	1,145	1,476	1,552	2,142	2,080	780
6 to 10	1,958	Q	Q	Q	306	297	387	Q	Q
11 to 20	1,951	Q	Q	Q	Q	277	491	Q	Q
More than 20	2,609	Q	Q	Q	Q	600	882	Q	Q
Currently Unoccupied	2,161	Q	465	Q	Q	Q	Q	Q	Q

Table B9. Year Constructed, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
		Year Constructed							
	All Buildings*	1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
All Buildings*	64,783	3,769	6,871	7,045	8,101	10,772	10,332	12,360	5,533
Predominant Exterior Wall Material									
Brick, Stone or Stucco	32,817	2,987	5,611	4,324	4,157	4,469	4,435	4,960	1,874
Concrete (Block or Poured)	10,832	178	784	1,734	1,936	1,964	1,546	1,615	1,075
Concrete Panels	6,559	Q	Q	Q	557	1,362	1,676	1,740	1059
Siding or Shingles	4,120	518	325	343	409	595	522	1,179	228
Metal Panels	7,912	Q	Q	439	747	1,757	1,512	2,356	1016
Window Glass	1,024	N	Q	Q	Q	Q	289	Q	Q
Other	1,113	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	406	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material									
Built-Up	21,170	1,202	2,825	2,619	3,154	3,875	3,538	3,020	937
Shingles (Not Wood)	10,195	1,171	878	1,298	1,304	1,415	1,450	1,829	849
Metal Surfacing	11,944	218	328	526	994	1,955	2,014	4,101	1,807
Synthetic or Rubber	14,730	658	1,328	1,544	2,160	2,581	2,218	2,656	1,584
Slate or Tile	2,462	293	562	330	Q	341	239	388	Q
Wooden Materials	887	Q	Q	Q	Q	Q	Q	Q	Q
Concrete	2,231	N	Q	Q	Q	Q	365	Q	Q
Other	598	N	N	Q	Q	Q	Q	Q	Q
No One Major Type	565	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	17,844	1,861	3,353	3,932	3,805	4,893	N	N	N
Addition or Annex	6,551	517	934	1,618	1,433	2,048	N	N	N
Reduction In Floorspace	1,012	Q	Q	Q	Q	Q	N	N	N
Cosmetic Improvements	13,119	1,490	2,460	2,801	2,958	3,410	N	N	N
Wall or Roof Replacement	8,070	700	1,549	1,919	1,910	1,993	N	N	N
Interior Wall Re-Configuration	8,518	823	1,713	1,655	1,957	2,370	N	N	N
HVAC Equipment Upgrade	10,768	951	2,196	2,289	2,616	2,716	N	N	N
Lighting Upgrade	10,275	1,076	2,141	2,266	2,359	2,433	N	N	N
Window Replacement	6,354	759	1,626	1,706	1,209	1,054	N	N	N
Plumbing System Upgrade	7,144	730	1,671	1,611	1,603	1,527	N	N	N
Insulation Upgrade	4,015	565	911	736	934	869	N	N	N
Other Renovation	523	Q	Q	Q	Q	Q	N	N	N
No Renovations Since 1980	18,714	1,908	3,518	3,113	4,296	5,879	N	N	N
Building Newer than 1980	28,225	N	N	N	N	N	10,332	12,360	5,533
Energy Sources (more than one may apply)									
Electricity	63,307	3,730	6,595	6,838	8,057	10,555	10,154	12,078	5,299
Natural Gas	43,468	2,759	4,679	4,659	5,635	7,659	6,469	8,177	3,431
Fuel Oil	15,157	961	1,986	2,048	1,685	2,187	3,079	2,086	1,125
District Heat	5,443	294	1,207	705	853	588	888	705	Q
District Chilled Water	2,853	Q	Q	359	446	456	531	804	Q
Propane	7,076	338	961	726	746	1,222	922	1,428	733
Other	1,401	Q	Q	Q	281	401	Q	Q	Q

Table B9. Year Constructed, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
		Year Constructed							
	All Buildings*	1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
All Buildings*	64,783	3,769	6,871	7,045	8,101	10,772	10,332	12,360	5,533
Energy End Uses (more than one may apply)									
Buildings with Space Heating	60,028	3,667	6,236	6,534	7,510	10,223	9,808	11,254	4,796
Buildings with Cooling	56,940	2,891	4,919	6,045	7,125	9,973	9,836	11,304	4,848
Buildings with Water Heating	56,478	3,353	5,292	5,924	7,202	9,787	9,420	10,816	4,683
Buildings with Cooking	22,237	1,362	2,242	3,156	2,669	3,431	3,677	3,597	2,104
Buildings with Manufacturing	3,138	Q	Q	Q	514	537	429	572	Q
Buildings with Electricity Generation	12,821	232	852	1,210	1,442	2,275	3,238	2,401	1,171
Percent of Floorspace Heated									
Not Heated	4,756	102	635	511	591	549	524	1,106	737
1 to 50	6,850	635	819	506	557	998	1,054	1,370	911
51 to 99	8,107	676	1,066	869	867	1,248	1,361	1,480	540
100	45,071	2,356	4,351	5,159	6,086	7,978	7,394	8,403	3,345
Percent of Floorspace Cooled									
Not Cooled	7,843	878	1,952	999	976	799	496	1,056	686
1 to 50	16,598	1,320	1,990	2,083	2,202	2,751	2,061	3,000	1,190
51 to 99	13,211	728	1,445	1,490	1,734	2,112	2,324	2,421	956
100	27,132	842	1,484	2,473	3,189	5,110	5,450	5,883	2,701
Percent Lit When Open									
Zero	293	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	10,203	1,264	1,417	1,295	1,456	1,117	1,193	1,653	808
51 to 99	18,288	1,132	1,731	2,026	2,437	3,487	3,077	3,074	1,324
100	32,789	1,132	3,166	3,313	3,824	5,645	5,752	7,024	2,933
Building Never Open/ Electricity Not Used	3,210	225	530	400	Q	516	291	494	389
Percent Lit When Closed									
Zero	17,385	1,538	1,962	1,699	1,988	2,965	2,065	3,309	1,860
1 to 50	30,948	1,587	3,289	3,977	4,114	5,001	5,317	5,535	2,127
51 to 100	2,093	Q	Q	Q	260	274	427	659	Q
Building Never Closed/ Electricity Not Used	14,357	584	1,503	1,307	1,739	2,532	2,523	2,857	1,311
Heating Equipment (more than one may apply)									
Heat Pumps	8,814	Q	622	848	827	1,378	2,018	1,974	999
Packaged Heat Pumps	5,442	Q	Q	540	512	1,019	1,528	1,031	556
Split-System Heat Pumps	2,581	Q	Q	Q	336	426	451	738	Q
Individual Room Heat Pumps	2,691	Q	Q	283	Q	238	626	442	446
Furnaces	19,615	1,350	2,085	2,475	2,346	3,612	2,418	3,971	1,359
Individual Space Heaters	12,545	782	1,427	1,442	1,469	2,393	1,799	2,433	800
District Heat	5,166	Q	1,203	661	786	573	780	691	Q
Boilers	20,423	1,926	2,744	3,081	2,957	3,339	2,803	2,257	1,316
Packaged Heating Units	18,021	390	979	1,422	1,993	3,443	3,816	4,067	1,911
Other	3,262	Q	Q	Q	242	779	641	814	401

Table B9. Year Constructed, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
		Year Constructed							
	All Buildings*	1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
All Buildings*	64,783	3,769	6,871	7,045	8,101	10,772	10,332	12,360	5,533
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	11,035	722	1,573	1,175	1,421	1,961	1,397	2,066	720
Heat Pumps	9,041	Q	653	888	794	1,392	2,055	2,038	1,064
Packaged Heat Pumps	5,426	Q	Q	527	479	997	1,522	987	582
Split-System Heat Pumps	2,606	Q	Q	Q	336	400	468	693	Q
Individual Room Heat Pumps	2,940	Q	Q	283	Q	298	698	581	460
Individual Air Conditioners	12,558	1,278	1,534	2,594	1,888	2,065	1,342	1,366	492
District Chilled Water	2,853	Q	Q	359	446	456	531	804	Q
Central Chillers	11,636	392	1,063	891	1,776	2,323	2,801	1,426	963
Packaged Air Conditioning Units	29,969	1,198	2,847	3,023	3,596	5,400	4,855	6,264	2,787
Swamp Coolers	1,561	Q	Q	Q	Q	483	324	252	Q
Other	1,232	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	16,403	1,309	2,176	2,567	2,983	4,287	3,080	N	N
Cooling	20,995	1,714	2,560	3,412	4,169	5,275	3,865	N	N
Lighting Equipment Types (more than one may apply)									
Incandescent	38,528	2,663	4,107	4,324	4,866	7,003	6,213	6,466	2,885
Standard Fluorescent	59,688	3,430	6,078	6,488	7,739	10,048	9,743	11,358	4,803
Compact Fluorescent	27,571	1,300	2,827	2,461	3,605	4,613	5,286	4,899	2,581
High Intensity Discharge	20,643	536	2,351	2,105	2,284	3,530	3,417	4,419	2,002
Halogen	17,703	881	1,225	1,973	1,798	2,921	3,384	3,352	2,169
Other	269	Q	N	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)									
Any Refrigeration	52,974	2,939	5,006	6,028	6,610	8,830	8,725	10,347	4,488
Commercial Refrigeration	26,768	1,297	2,580	3,544	3,090	4,422	4,728	4,568	2,539
Walk-In Units	20,254	990	1,853	2,399	2,324	3,461	3,840	3,341	2,046
Cases or Cabinets	20,424	951	1,829	2,712	2,452	3,517	3,659	3,390	1,914
Residential-Type Units	38,884	2,323	4,088	4,700	4,898	6,412	6,253	7,130	3,081
Vending Machines	35,335	1,074	3,426	3,332	4,699	6,208	6,219	7,248	3,127
No Refrigeration	11,809	830	1,865	1,017	1,491	1,943	1,607	2,012	1,045
Office Equipment (more than one may apply)									
Computers	55,627	3,008	5,546	5,690	7,076	9,391	9,427	10,778	4,712
With Flat Screen Monitors	26,417	997	2,729	2,275	3,234	4,887	5,227	4,835	2,232
Dedicated Servers	36,338	1,428	3,502	3,207	4,600	6,083	7,254	7,067	3,198
Laser Printers	33,012	1,991	3,431	3,818	4,501	5,719	5,037	5,942	2,574
Inkjet Printers	32,210	1,581	2,518	2,888	3,793	5,648	6,132	6,775	2,875
FAX Machines	52,373	2,692	5,136	5,380	6,501	8,944	9,052	10,428	4,241
Photocopiers	46,257	2,173	4,289	5,011	5,828	7,922	8,081	9,146	3,805

Table B9. Year Constructed, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
		Year Constructed							
	All Buildings*	1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
All Buildings*	64,783	3,769	6,871	7,045	8,101	10,772	10,332	12,360	5,533
Number of Computers									
None	9,156	761	1,325	1,355	1,025	1,382	905	1,582	821
1 to 4	12,395	1,072	1,389	1,560	1,626	1,920	1,465	2,323	1,040
5 to 9	7,179	353	1,022	749	799	1,143	878	1,653	583
10 to 19	6,610	621	280	367	793	1,315	1,146	1,484	604
20 to 49	7,414	343	591	874	828	1,369	981	1,660	768
50 to 99	5,376	Q	790	633	749	615	1,158	900	346
100 to 249	6,690	321	467	719	1011	1,128	1,138	1,109	798
250 or More	9,963	Q	1,007	789	1,270	1,901	2,661	1,650	573
Number of Dedicated Servers									
None	28,445	2,341	3,370	3,838	3,501	4,690	3,078	5,293	2,335
1 to 4	24,116	1,108	2,196	2,140	3,365	4,122	4,074	4,729	2,383
5 to 9	3,864	Q	Q	329	316	559	733	852	327
10 to 19	3,027	Q	Q	Q	397	426	645	645	Q
20 to 49	2,583	Q	Q	Q	357	580	984	Q	Q
50 or More	2,748	Q	Q	Q	Q	396	819	560	Q
Number of Photocopiers									
None	18,526	1,596	2,582	2,034	2,273	2,850	2,251	3,213	1,728
One	15,475	942	1,517	1,865	1,815	2,473	1,828	3,684	1,351
2 to 4	15,082	897	1,210	1,561	2,115	2,415	2,625	2,850	1,409
5 to 9	5,515	Q	Q	443	828	990	936	1029	476
10 or More	10,185	Q	906	1,142	1,070	2,044	2,692	1,584	570
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	22,223	1,362	2,242	3,145	2,667	3,431	3,677	3,597	2,104
Activities with Large Amounts of Hot Water	19,482	842	1,752	2,318	2,413	3,394	3,332	3,518	1,912
Separate Computer Area	26,873	893	2,605	2,724	3,459	4,548	5,488	4,680	2,476
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	19,597	775	1,163	1,526	2,001	3,338	4,459	4,259	2,076
Economizer Cycle	21,108	645	1,529	1,444	2,519	4,071	4,606	4,113	2,182
HVAC Maintenance	51,163	2,526	5,413	5,145	6,217	8,562	8,728	10,138	4,433
Energy Management and Control System (EMCS)	15,630	365	1,195	1,415	2,156	2,337	3,585	3,069	1,509
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	38,910	2,187	3,565	3,894	3,813	6,000	6,907	8,351	4,193
Tinted Window Glass	29,887	874	2,373	2,319	3,511	5,312	6,267	6,177	3,053
Reflective Window Glass	8,544	264	579	736	674	1,474	1,861	1,706	1,251
External Overhangs or Awnings	17,242	939	1,503	1,705	2,338	2,932	2,878	3,411	1,537
Skylights or Atriums	12,546	566	1,301	800	1,359	1,950	2,821	2,809	941
Daylighting Sensors	2,868	Q	Q	Q	Q	365	758	613	400
Specular Reflectors	26,118	1,184	2,959	2,197	3,166	4,242	4,850	5,080	2,439
Electronic Ballasts	46,882	2,293	4,825	4,820	5,742	7,772	8,207	8,953	4,270
Energy Management and Control System (EMCS) for Lighting	4,781	Q	Q	Q	404	830	1,372	1,095	514

Table B9. Year Constructed, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
		Year Constructed							
	All Buildings*	1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
All Buildings*	64,783	3,769	6,871	7,045	8,101	10,772	10,332	12,360	5,533
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	42,722	2,432	4,062	5,080	5,661	7,210	7,206	7,755	3,316
Cooling	43,205	2,244	3,884	4,974	5,408	7,177	7,572	8,365	3,580
Lighting	46,987	2,905	4,947	5,495	5,932	7,754	7,266	8,827	3,864
Office Equipment	19,397	1,180	2,143	2,872	2,526	3,017	2,596	3,556	1,506

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B10. Number of Floors, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)						Total Floorspace (million square feet)					
	All Build-ings*	One Floor	Two Floors	Three Floors	Four to Nine Floors	Ten or More Floors	All Build-ings*	One Floor	Two Floors	Three Floors	Four to Nine Floors	Ten or More Floors
All Buildings*	4,645	3,136	1,031	339	128	12	64,783	25,981	16,270	7,501	10,085	4,947
Building Floorspace (Square Feet)												
1,001 to 5,000	2,552	2,014	411	115	Q	N	6,789	5,192	1,217	343	Q	N
5,001 to 10,000	889	564	239	70	Q	N	6,585	4,150	1,814	504	Q	N
10,001 to 25,000	738	399	248	74	18	Q	11,535	6,160	3,966	1,115	292	Q
25,001 to 50,000	241	92	77	46	26	Q	8,668	3,296	2,772	1,631	964	Q
50,001 to 100,000	129	46	35	21	25	Q	9,057	3,187	2,456	1,481	1,822	Q
100,001 to 200,000	65	16	13	11	23	3	9,064	2,159	1,896	1,418	3,150	442
200,001 to 500,000	25	4	6	3	8	4	7,176	1,134	1,775	730	2,186	1,350
Over 500,000	7	Q	Q	Q	2	3	5,908	Q	Q	Q	1,516	3,036
Principal Building Activity												
Education	386	281	60	31	14	Q	9,874	3,696	2,911	1,639	1,585	Q
Food Sales	226	183	29	Q	Q	N	1,255	961	263	Q	Q	N
Food Service	297	210	54	28	Q	N	1,654	937	379	176	Q	N
Health Care	129	69	38	14	6	1	3,163	522	523	378	1,178	561
Inpatient	8	Q	Q	Q	3	1	1,905	Q	Q	Q	989	527
Outpatient	121	68	37	Q	3	Q	1,258	441	428	Q	189	Q
Lodging	142	48	52	17	23	3	5,096	646	950	618	2,007	875
Retail (Other Than Mall)	443	311	103	25	Q	Q	4,317	2,742	932	416	Q	Q
Office	824	441	234	98	44	6	12,208	2,460	2,269	1,810	2,644	3,025
Public Assembly	277	168	81	16	11	Q	3,939	1,448	1,428	308	693	Q
Public Order and Safety	71	50	Q	Q	Q	Q	1,090	371	Q	Q	Q	Q
Religious Worship	370	193	134	40	Q	N	3,754	1,255	1,613	737	Q	N
Service	622	510	95	Q	Q	N	4,050	2,713	1,000	Q	Q	N
Warehouse and Storage	597	493	84	Q	Q	Q	10,078	6,637	2,684	Q	Q	Q
Other	79	57	15	Q	4	Q	1,738	630	375	Q	518	Q
Vacant	182	122	38	Q	Q	N	2,567	963	780	Q	Q	N
Year Constructed												
Before 1920	330	80	116	92	41	Q	3,769	348	913	856	1,393	Q
1920 to 1945	527	236	187	78	25	2	6,871	1,730	1,539	1,396	1,525	681
1946 to 1959	562	374	135	46	6	1	7,045	2,771	2,095	1,218	485	475
1960 to 1969	579	402	122	42	10	2	8,101	3,474	2,188	795	1,013	630
1970 to 1979	731	536	148	32	13	1	10,772	4,484	2,977	946	1,570	797
1980 to 1989	707	536	130	21	16	3	10,332	3,856	2,336	724	1,924	1,492
1990 to 1999	876	699	141	23	11	Q	12,360	6,577	2,976	960	1,485	Q
2000 to 2003	334	272	51	5	6	Q	5,533	2,742	1,245	605	690	Q
Census Region												
Northeast	726	312	230	130	50	4	12,905	3,151	3,029	2,083	3,003	1,640
Midwest	1,266	801	328	107	29	2	17,080	6,104	5,177	2,584	2,660	555
South	1,775	1,381	289	68	33	4	23,489	11,757	4,946	1,938	3,094	1,754
West	878	642	183	35	16	3	11,310	4,969	3,118	896	1,328	999
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	855	526	214	90	25	1	10,622	3,750	3,146	1,664	1,731	330
5,500-7,000 HDD	1,173	677	333	126	34	3	17,335	6,253	4,867	2,643	2,525	1,047
4,000-5,499 HDD	673	400	159	70	40	4	11,504	3,156	2,623	1,228	2,744	1,752
Fewer than 4,000 HDD	1,276	1,017	198	41	17	3	15,739	8,011	3,423	1,473	1,982	850
2,000 CDD or More and --												
Fewer than 4,000 HDD	669	516	127	12	12	2	9,584	4,810	2,210	492	1,103	968

Table B10. Number of Floors, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)						Total Floorspace (million square feet)					
	All Build-ings*	One Floor	Two Floors	Three Floors	Four to Nine Floors	Ten or More Floors	All Build-ings*	One Floor	Two Floors	Three Floors	Four to Nine Floors	Ten or More Floors
All Buildings*	4,645	3,136	1,031	339	128	12	64,783	25,981	16,270	7,501	10,085	4,947
Elevators and Escalators (more than one may apply)												
Any Elevators	309	N	121	91	85	12	24,617	N	5,636	4,758	9,276	4,947
Number of Elevators												
One	208	N	110	69	30	Q	8,221	N	4,446	2,416	1,355	Q
Two to Five	88	N	10	22	51	5	10,129	N	1,129	2,178	5,851	971
Six or More	13	N	Q	Q	5	7	6,268	N	Q	Q	2,069	3,973
Any Escalators	6	N	Q	Q	2	2	2,350	N	Q	Q	631	1,443
Number of Workers (main shift)												
Fewer than 5	2,653	2,005	491	134	23	N	15,492	9,898	3,706	1,282	605	N
5 to 9	778	515	174	77	12	Q	6,166	3,480	1,627	637	404	Q
10 to 19	563	333	162	48	20	Q	7,803	3,538	2,277	942	1,040	Q
20 to 49	398	198	134	40	24	Q	10,989	4,535	3,664	1,325	1,249	Q
50 to 99	147	69	41	19	17	Q	7,934	2,649	2,254	1,321	1,470	Q
100 to 249	77	13	25	18	19	2	6,871	1,250	1,774	1,341	2,134	372
250 or More	30	3	4	3	13	7	9,528	630	968	653	3,182	4,095
Weekly Operating Hours												
Fewer than 40	1,002	736	204	53	8	N	6,863	3,647	2,112	604	499	N
40 to 48	1,117	757	254	81	25	Q	11,622	5,372	3,560	1,408	971	Q
49 to 60	1,062	689	251	88	30	3	15,723	6,878	3,843	1,807	2,031	1,164
61 to 84	591	362	145	61	21	2	10,334	4,008	2,531	1,549	1,372	875
85 to 167	400	304	60	26	10	Q	7,092	3,103	1,938	752	1,127	Q
Open Continuously	475	287	117	31	34	5	13,149	2,974	2,286	1,380	4,084	2,425
Ownership and Occupancy												
Nongovernment Owned	4,011	2,675	921	303	102	10	49,421	20,203	12,450	5,694	6,678	4,396
Owner Occupied	1,841	1,119	478	175	65	4	23,591	8,613	5,914	3,061	3,822	2,181
Nonowner Occupied	2,029	1,454	414	120	36	6	23,914	10,719	5,901	2,402	2,677	2,215
Unoccupied	141	102	29	Q	Q	N	1,916	870	636	Q	Q	N
Government Owned	635	461	110	37	26	2	15,363	5,779	3,819	1,807	3,406	551
Federal	46	35	Q	Q	2	0	1,956	902	Q	Q	650	136
State	164	114	28	9	13	Q	3,808	917	842	349	1,531	Q
Local	425	312	79	22	11	Q	9,599	3,959	2,834	1,332	1,226	Q
Vacancy Status												
Completely Vacant	157	111	33	Q	Q	N	2,161	889	652	Q	Q	N
Mostly Vacant	25	Q	Q	Q	Q	N	406	Q	Q	Q	Q	N
Partially Vacant	548	323	120	57	43	6	12,382	2,671	2,495	1,565	2,791	2,859
Not At All Vacant	3,915	2,691	872	264	82	6	49,834	22,347	12,994	5,544	6,861	2,088
Number of Establishments												
One	3,754	2,670	757	244	79	3	45,144	20,956	11,910	5,084	5,860	1,332
2 to 5	643	333	211	64	31	3	10,960	3,717	2,858	1,279	2,335	772
6 to 10	55	17	19	9	8	Q	1,958	265	527	259	697	Q
11 to 20	23	Q	Q	5	5	1	1,951	Q	Q	481	496	693
More than 20	14	Q	Q	Q	2	3	2,609	Q	Q	Q	345	1,940
Currently Unoccupied	157	111	33	Q	Q	N	2,161	889	652	Q	Q	N

Table B10. Number of Floors, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)						Total Floorspace (million square feet)					
	All Build-ings*	One Floor	Two Floors	Three Floors	Four to Nine Floors	Ten or More Floors	All Build-ings*	One Floor	Two Floors	Three Floors	Four to Nine Floors	Ten or More Floors
All Buildings*	4,645	3,136	1,031	339	128	12	64,783	25,981	16,270	7,501	10,085	4,947
Predominant Exterior Wall Material												
Brick, Stone or Stucco	2,044	1,181	550	221	87	6	32,817	11,171	8,286	4,955	6,221	2,183
Concrete (Block or Poured)	786	586	153	29	15	2	10,832	4,865	3,076	885	1,399	607
Concrete Panels	131	78	32	8	11	2	6,559	2,027	1,475	450	1,510	1,098
Siding or Shingles	779	541	161	70	Q	Q	4,120	2,247	1,121	663	Q	Q
Metal Panels	825	717	98	Q	Q	Q	7,912	5,364	1,836	Q	Q	Q
Window Glass	17	Q	Q	Q	3	Q	1,024	Q	Q	Q	336	Q
Other	47	Q	26	Q	Q	Q	1,113	Q	257	Q	Q	Q
No One Major Type	18	Q	Q	Q	Q	Q	406	Q	Q	Q	Q	Q
Predominant Roof Material												
Built-Up	1,036	635	266	77	52	6	21,170	6,713	5,475	2,370	4,042	2,571
Shingles (Not Wood)	1,325	869	320	113	21	Q	10,195	4,557	3,249	1,305	839	Q
Metal Surfacing	1,288	1,086	172	28	Q	Q	11,944	8,397	2,678	559	Q	Q
Synthetic or Rubber	511	259	145	68	34	4	14,730	4,041	3,241	2,193	3,650	1,605
Slate or Tile	263	144	70	38	11	Q	2,462	793	642	605	385	Q
Wooden Materials	122	76	36	Q	Q	Q	887	363	317	Q	Q	Q
Concrete	61	42	Q	Q	4	Q	2,231	808	Q	Q	Q	Q
Other	16	Q	Q	Q	Q	Q	598	Q	Q	Q	Q	Q
No One Major Type	25	Q	Q	Q	Q	Q	565	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)												
Since 1980	1,018	521	308	140	44	5	17,844	4,985	5,121	2,878	3,047	1,812
Addition or Annex	256	146	68	28	13	1	6,551	1,731	2,188	1,024	1,025	582
Reduction In Floorspace	22	Q	Q	Q	Q	Q	1,012	Q	Q	Q	Q	Q
Cosmetic Improvements	741	345	246	110	37	3	13,119	3,416	3,935	1,852	2,442	1,474
Wall or Roof Replacement	370	182	118	50	19	2	8,070	1,892	2,625	1,010	1,525	1,018
Interior Wall Re-Configuration	411	183	135	64	25	3	8,518	1,905	2,622	1,024	1,706	1,261
HVAC Equipment Upgrade	442	177	157	72	31	3	10,768	2,362	3,053	1,576	2,302	1,476
Lighting Upgrade	455	202	151	71	27	3	10,275	2,335	3,084	1,448	2,092	1,317
Window Replacement	310	118	110	59	22	1	6,354	1,189	1,965	1,001	1,412	787
Plumbing System Upgrade	315	140	108	45	19	2	7,144	1,510	2,200	782	1,510	1,142
Insulation Upgrade	227	106	75	29	17	1	4,015	1,121	1,154	470	852	417
Other Renovation	19	Q	Q	Q	Q	Q	523	Q	Q	Q	Q	Q
No Renovations Since 1980	1,710	1,107	401	149	51	2	18,714	7,821	4,592	2,333	2,939	1,029
Building Newer than 1980	1,917	1,507	322	50	33	5	28,225	13,174	6,557	2,289	4,099	2,105
Energy Sources (more than one may apply)												
Electricity	4,404	2,919	1,011	333	128	12	63,307	24,935	15,978	7,381	10,065	4,947
Natural Gas	2,391	1,431	617	242	93	9	43,468	14,940	11,441	5,668	7,670	3,749
Fuel Oil	451	209	142	57	34	9	15,157	2,518	2,724	1,914	4,101	3,899
District Heat	67	14	19	11	20	3	5,443	Q	515	458	2,473	1,366
District Chilled Water	33	10	6	4	11	1	2,853	259	302	262	1,458	571
Propane	502	362	98	35	6	Q	7,076	3,403	2,004	923	512	Q
Other	61	35	Q	Q	Q	Q	909	338	Q	Q	Q	Q

Table B10. Number of Floors, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)						Total Floorspace (million square feet)					
	All Build-ings*	One Floor	Two Floors	Three Floors	Four to Nine Floors	Ten or More Floors	All Build-ings*	One Floor	Two Floors	Three Floors	Four to Nine Floors	Ten or More Floors
All Buildings*	4,645	3,136	1,031	339	128	12	64,783	25,981	16,270	7,501	10,085	4,947
Energy End Uses (more than one may apply)												
Buildings with Space Heating	3,982	2,566	960	319	125	12	60,028	22,744	15,408	7,198	9,744	4,933
Buildings with Cooling	3,625	2,340	864	290	120	12	56,940	21,419	14,544	6,437	9,673	4,867
Buildings with Water Heating	3,472	2,134	899	304	124	11	56,478	20,164	14,914	6,915	9,688	4,796
Buildings with Cooking	801	462	201	90	42	6	22,237	5,784	5,265	2,909	5,021	3,258
Buildings with Manufacturing	119	79	27	Q	2	Q	3,138	1,127	1,095	Q	305	Q
Buildings with Electricity Generation	149	59	39	19	25	7	12,821	1,835	2,177	1,398	3,914	3,496
Lighting Equipment Types (more than one may apply)												
Incandescent	2,184	1,191	628	254	102	10	38,528	10,640	9,812	5,620	8,192	4,264
Standard Fluorescent	3,943	2,583	916	310	122	11	59,688	22,875	15,172	7,057	9,691	4,893
Compact Fluorescent	941	456	295	108	71	10	27,571	5,431	6,571	3,914	7,324	4,332
High Intensity Discharge	455	260	116	41	32	6	20,643	6,176	4,893	2,582	4,088	2,904
Halogen	565	278	186	53	42	7	17,703	3,811	4,590	2,026	4,145	3,131
Other	8	Q	Q	Q	Q	Q	269	Q	Q	Q	Q	Q
Window and Interior Lighting Features (more than one may apply)												
Multipaned Windows	2,201	1,293	602	216	83	7	38,910	12,346	10,522	5,410	7,340	3,291
Tinted Window Glass	1,323	841	338	90	46	8	29,887	9,736	7,347	3,429	5,541	3,835
Reflective Window Glass	308	193	72	27	13	3	8,544	1,856	2,015	1,353	1,748	1,571
External Overhangs or Awnings	1,233	817	282	93	39	2	17,242	7,117	4,490	2,075	2,631	930
Skylights or Atriums	331	166	94	46	21	3	12,546	2,783	3,446	1,664	3,032	1,621
Daylighting Sensors	74	37	25	4	7	1	2,868	442	695	314	887	531
Specular Reflectors	928	561	222	84	52	8	26,118	7,764	5,520	3,187	5,960	3,686
Electronic Ballasts	2,577	1,679	590	197	100	11	46,882	16,453	10,947	5,686	9,015	4,780
Energy Management and Control System (EMCS) for Lighting	60	38	10	4	6	2	4,781	1,153	962	370	1,091	1,204

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B11. Selected Principal Building Activity: Part 1, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)							
		Principal Building Activity						
					Health Care			
	All Buildings*	Education	Food Sales	Food Service	Inpatient	Outpatient	Lodging	Retail (Other Than Mall)
All Buildings*	4,645	386	226	297	8	121	142	443
Building Floorspace (Square Feet)								
1,001 to 5,000	2,552	162	164	202	N	56	38	241
5,001 to 10,000	889	56	44	65	N	38	21	97
10,001 to 25,000	738	60	Q	23	Q	19	38	83
25,001 to 50,000	241	48	Q	Q	Q	Q	23	14
50,001 to 100,000	129	39	Q	Q	Q	3	11	Q
100,001 to 200,000	65	16	Q	N	Q	Q	7	4
200,001 to 500,000	25	5	N	Q	2	Q	4	Q
Over 500,000	7	Q	N	N	1	N	Q	Q
Year Constructed								
Before 1920	330	12	Q	32	Q	Q	Q	37
1920 to 1945	527	26	Q	34	Q	Q	11	66
1946 to 1959	562	78	Q	30	Q	Q	17	62
1960 to 1969	579	60	Q	Q	1	Q	25	59
1970 to 1979	731	58	Q	46	2	14	25	90
1980 to 1989	707	44	33	46	2	18	21	44
1990 to 1999	876	75	56	66	0	36	30	68
2000 to 2003	334	32	Q	Q	Q	Q	6	17
Census Region and Division								
Northeast	726	31	40	37	1	17	27	76
New England	233	Q	Q	Q	Q	Q	Q	Q
Middle Atlantic	493	21	Q	27	1	Q	9	46
Midwest	1,266	63	57	88	2	29	34	111
East North Central	696	34	43	54	1	19	15	69
West North Central	571	29	Q	34	Q	Q	19	42
South	1,775	156	94	127	4	44	52	197
South Atlantic	874	87	49	61	Q	25	26	106
East South Central	348	Q	Q	24	Q	Q	13	42
West South Central	553	56	Q	42	1	Q	13	49
West	878	136	Q	45	1	30	30	60
Mountain	299	39	Q	Q	Q	Q	16	21
Pacific	580	97	Q	34	1	17	14	39
Climate Zone: 30-Year Average								
Under 2,000 CDD and --								
More than 7,000 HDD	855	38	45	48	1	21	29	69
5,500-7,000 HDD	1,173	89	59	71	2	29	38	103
4,000-5,499 HDD	673	35	Q	45	1	22	25	88
Fewer than 4,000 HDD	1,276	143	57	78	3	28	36	133
2,000 CDD or More and --								
Fewer than 4,000 HDD	669	81	Q	54	1	21	15	50
Number of Floors								
One	3,136	281	183	210	Q	68	48	311
Two	1,031	60	29	54	Q	37	52	103
Three	339	31	Q	28	Q	Q	17	25
Four to Nine	128	14	Q	Q	3	3	23	Q
Ten or More	12	Q	N	N	1	Q	3	Q

Table B11. Selected Principal Building Activity: Part 1, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)							
		Principal Building Activity						
					Health Care			
	All Buildings*	Education	Food Sales	Food Service	Inpatient	Outpatient	Lodging	Retail (Other Than Mall)
All Buildings*	4,645	386	226	297	8	121	142	443
Elevators and Escalators (more than one may apply)								
Any Elevators	309	50	Q	Q	6	12	30	14
Number of Elevators								
One	208	37	Q	Q	Q	8	11	Q
Two to Five	88	12	N	Q	3	3	17	Q
Six or More	13	Q	N	N	2	Q	Q	Q
Any Escalators	6	Q	N	Q	Q	Q	Q	Q
Number of Workers (main shift)								
Fewer than 5	2,653	150	162	101	N	Q	78	268
5 to 9	778	49	Q	92	N	41	18	90
10 to 19	563	57	Q	68	Q	Q	18	57
20 to 49	398	69	Q	30	Q	26	16	14
50 to 99	147	42	Q	Q	Q	Q	8	12
100 to 249	77	15	Q	Q	4	5	4	3
250 or More	30	3	N	N	3	Q	Q	Q
Weekly Operating Hours								
Fewer than 40	1,002	74	Q	26	N	Q	Q	Q
40 to 48	1,117	124	Q	Q	N	53	Q	96
49 to 60	1,062	119	Q	35	N	32	N	159
61 to 84	591	56	46	102	N	Q	Q	118
85 to 167	400	12	106	101	N	Q	Q	30
Open Continuously	475	Q	45	Q	8	Q	140	Q
Ownership and Occupancy								
Nongovernment Owned	4,011	141	224	283	7	115	134	441
Owner Occupied	1,841	83	94	72	4	64	48	189
Nonowner Occupied	2,029	58	130	211	3	51	86	252
Unoccupied	141	N	N	N	N	N	N	N
Government Owned	635	245	Q	Q	1	Q	9	Q
Federal	46	Q	N	N	Q	Q	Q	Q
State	164	59	Q	Q	Q	Q	Q	N
Local	425	175	Q	Q	Q	Q	Q	N
Vacancy Status								
Completely Vacant	157	N	N	N	N	N	N	N
Mostly Vacant	25	N	N	N	N	N	N	N
Partially Vacant	548	55	Q	24	1	18	18	26
Not At All Vacant	3,915	331	212	274	7	103	124	417
Number of Establishments								
One	3,754	360	203	270	6	84	130	368
2 to 5	643	21	Q	26	1	32	12	68
6 to 10	55	Q	N	Q	Q	Q	Q	Q
11 to 20	23	N	N	N	Q	Q	N	Q
More than 20	14	N	Q	N	Q	Q	N	Q
Currently Unoccupied	157	N	N	N	N	N	N	N

Table B11. Selected Principal Building Activity: Part 1, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)							
		Principal Building Activity						
					Health Care			
	All Buildings*	Education	Food Sales	Food Service	Inpatient	Outpatient	Lodging	Retail (Other Than Mall)
All Buildings*	4,645	386	226	297	8	121	142	443
Multibuilding Facility								
Not Part of a Multibuilding Facility	3,169	105	207	271	2	101	73	377
College or University	83	40	N	Q	Q	Q	10	Q
Primary or Secondary School	254	186	N	Q	N	Q	Q	N
Office Complex	111	Q	Q	N	Q	Q	Q	Q
Retail Complex	151	N	Q	Q	N	N	N	46
Religious Campus or Complex	195	39	N	Q	N	N	Q	N
Health Care Complex	39	Q	N	Q	6	16	6	N
Lodging or Resort Complex	61	Q	N	Q	N	N	39	Q
Government Complex	87	N	N	Q	N	Q	N	N
Other	496	Q	N	Q	N	Q	Q	Q
Predominant Exterior Wall Material								
Brick, Stone or Stucco	2,044	220	116	170	5	71	74	166
Concrete (Block or Poured)	786	44	50	55	Q	Q	22	121
Concrete Panels	131	10	Q	Q	1	Q	Q	8
Siding or Shingles	779	78	Q	51	Q	Q	41	71
Metal Panels	825	30	Q	Q	Q	Q	N	69
Window Glass	17	Q	N	Q	Q	N	Q	Q
Other	47	Q	Q	Q	Q	Q	Q	Q
No One Major Type	18	Q	N	Q	Q	N	Q	Q
Predominant Roof Material								
Built-Up	1,036	112	62	96	4	25	23	129
Shingles (Not Wood)	1,325	116	71	64	Q	52	72	98
Metal Surfacing	1,288	65	Q	49	Q	Q	Q	109
Synthetic or Rubber	511	53	33	55	3	12	14	68
Slate or Tile	263	32	Q	Q	Q	Q	11	Q
Wooden Materials	122	Q	Q	Q	N	Q	Q	Q
Concrete	61	Q	Q	Q	Q	Q	Q	Q
Other	16	Q	Q	Q	N	N	Q	N
No One Major Type	25	Q	Q	Q	Q	Q	N	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)								
Any Type of Renovation Since 1980	1,018	105	48	79	4	28	35	115
Addition or Annex	256	31	Q	Q	4	Q	13	18
Reduction In Floorspace	22	Q	N	Q	Q	Q	Q	Q
Cosmetic Improvements	741	77	37	67	3	25	29	86
Wall or Roof Replacement	370	49	Q	25	1	Q	17	39
Interior Wall Re-Configuration	411	37	Q	24	2	23	14	48
HVAC Equipment Upgrade	442	60	Q	37	4	Q	20	50
Lighting Upgrade	455	65	Q	29	2	Q	17	43
Window Replacement	310	40	Q	Q	1	Q	16	33
Plumbing System Upgrade	315	42	Q	29	1	Q	17	38
Insulation Upgrade	227	23	Q	Q	1	Q	Q	23
Other Renovation	19	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	1,710	130	77	86	1	30	50	200
Building Newer than 1980	1,917	151	100	133	2	63	57	128

Table B11. Selected Principal Building Activity: Part 1, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)							
		Principal Building Activity						
					Health Care			
	All Buildings*	Education	Food Sales	Food Service	Inpatient	Outpatient	Lodging	Retail (Other Than Mall)
All Buildings*	4,645	386	226	297	8	121	142	443
Energy Sources (more than one may apply)								
Electricity	4,404	384	221	297	8	121	142	443
Natural Gas	2,391	213	98	226	7	65	86	245
Fuel Oil	451	26	Q	Q	7	6	28	37
District Heat	67	26	N	Q	1	Q	6	Q
District Chilled Water	33	14	N	Q	1	Q	Q	Q
Propane	502	43	Q	52	Q	Q	24	47
Other	61	Q	Q	N	Q	N	Q	Q
Energy End Uses (more than one may apply)								
Buildings with Space Heating	3,982	382	188	282	8	116	142	408
Buildings with Cooling	3,625	352	210	283	8	121	130	406
Buildings with Water Heating	3,472	298	186	297	8	119	142	314
Buildings with Cooking	801	125	84	284	7	Q	47	14
Buildings with Manufacturing	119	Q	Q	Q	Q	Q	Q	Q
Buildings with Electricity Generation	149	16	Q	Q	7	5	19	7
Heating Equipment (more than one may apply)								
Heat Pumps	476	66	Q	26	Q	19	25	42
Packaged Heat Pumps	278	31	Q	Q	Q	Q	11	27
Split-System Heat Pumps	166	14	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps	58	27	N	Q	Q	Q	14	Q
Furnaces	1,864	111	77	125	Q	58	31	227
Individual Space Heaters	819	67	Q	28	1	19	57	75
District Heat	65	25	N	Q	1	Q	Q	Q
Boilers	579	84	Q	36	6	16	42	30
Packaged Heating Units	953	99	46	103	3	25	31	97
Other	205	Q	Q	Q	Q	Q	Q	Q
Cooling Equipment (more than one may apply)								
Residential-Type Central Air Conditioners	1,006	59	36	69	1	46	23	95
Heat Pumps	492	63	Q	30	Q	19	25	50
Packaged Heat Pumps	288	27	Q	Q	Q	Q	11	34
Split-System Heat Pumps	174	14	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps	58	27	N	Q	Q	Q	14	Q
Individual Air Conditioners	742	87	Q	33	3	Q	71	82
District Chilled Water	33	14	N	Q	1	Q	Q	Q
Central Chillers	111	36	N	Q	4	4	11	Q
Packaged Air Conditioning Units	1,613	139	107	176	5	52	39	200
Swamp Coolers	122	Q	Q	Q	Q	N	Q	Q
Other	40	Q	Q	Q	Q	N	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)								
Heating	1,197	82	53	81	2	40	56	128
Cooling	1,356	109	75	98	4	41	63	170

Table B11. Selected Principal Building Activity: Part 1, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)							
		Principal Building Activity						
					Health Care			
	All Buildings*	Education	Food Sales	Food Service	Inpatient	Outpatient	Lodging	Retail (Other Than Mall)
All Buildings*	4,645	386	226	297	8	121	142	443
Office Equipment (more than one may apply)								
Computers	3,081	343	138	172	6	118	97	317
With Flat Screen Monitors	877	89	Q	40	5	48	33	68
Dedicated Servers	1,175	127	36	44	6	48	42	103
Laser Printers	1,970	227	82	113	3	54	62	223
Inkjet Printers	1,420	143	56	51	5	70	42	129
FAX Machines	2,715	199	118	168	8	114	85	330
Photocopiers	1,939	207	60	27	8	95	56	163
Number of Computers								
None	1,565	43	88	125	Q	Q	46	126
1 to 4	1,670	113	116	139	Q	56	47	215
5 to 9	559	36	Q	26	Q	Q	23	67
10 to 19	370	50	Q	Q	Q	21	12	21
20 to 49	255	50	Q	Q	Q	Q	6	14
50 to 99	110	41	N	N	Q	4	Q	Q
100 to 249	79	39	N	N	1	Q	Q	Q
250 or More	38	14	N	N	2	Q	Q	Q
Number of Dedicated Servers								
None	3,471	259	189	253	Q	73	100	340
1 to 4	1,060	112	36	41	3	46	41	100
5 to 9	58	8	Q	Q	0	Q	Q	Q
10 to 19	30	Q	N	N	1	Q	Q	Q
20 to 49	17	Q	N	N	1	Q	Q	Q
50 or More	10	Q	N	N	0	Q	Q	N
Number of Photocopiers								
None	2,706	179	166	270	Q	Q	87	280
One	1,250	94	53	21	Q	66	39	140
2 to 4	549	90	Q	Q	Q	22	13	23
5 to 9	85	18	N	N	1	4	Q	Q
10 or More	54	5	N	N	4	3	Q	Q
Energy-Related Space Functions (more than one may apply)								
Commercial Food Preparation	799	125	84	284	7	Q	47	14
Activities with Large Amounts of Hot Water	567	79	Q	123	7	13	104	15
Separate Computer Area	553	146	Q	Q	5	17	22	14
HVAC Conservation Features (more than one may apply)								
Variable Air-Volume System	466	83	Q	41	5	24	20	31
Economizer Cycle	508	88	Q	47	4	20	24	34
HVAC Maintenance	2,581	294	129	201	8	89	101	233
Energy Management and Control System (EMCS)	252	100	Q	Q	2	9	5	14

Table B11. Selected Principal Building Activity: Part 1, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)							
		Principal Building Activity						
					Health Care			
	All Buildings*	Education	Food Sales	Food Service	Inpatient	Outpatient	Lodging	Retail (Other Than Mall)
All Buildings*	4,645	386	226	297	8	121	142	443
Window and Interior Lighting Features (more than one may apply)								
Multipaned Windows	2,201	174	115	163	7	79	93	201
Tinted Window Glass	1,323	134	48	107	6	46	27	158
Reflective Window Glass	308	28	Q	29	3	14	14	19
External Overhangs or Awnings	1,233	91	74	142	4	26	56	183
Skylights or Atriums	331	32	Q	Q	3	9	19	29
Daylighting Sensors	74	7	Q	Q	1	Q	8	Q
Specular Reflectors	928	97	33	49	4	26	30	74
Electronic Ballasts	2,577	269	136	178	7	79	83	293
Energy Management and Control System (EMCS) for Lighting	60	23	Q	Q	Q	Q	Q	4
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]								
Heating	2,878	315	70	193	3	92	70	315
Cooling	2,761	308	90	211	3	93	75	325
Lighting	3,685	359	165	271	N	116	Q	426
Office Equipment	1,504	239	38	54	N	61	Q	154

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B12. Selected Principal Building Activity: Part 1, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)							
		Principal Building Activity						
					Health Care			
	All Buildings*	Education	Food Sales	Food Service	Inpatient	Outpatient	Lodging	Retail (Other Than Mall)
All Buildings*	64,783	9,874	1,255	1,654	1,905	1,258	5,096	4,317
Building Floorspace (Square Feet)								
1,001 to 5,000	6,789	409	409	544	N	165	99	638
5,001 to 10,000	6,585	399	356	442	N	280	160	725
10,001 to 25,000	11,535	931	Q	345	Q	312	631	1,284
25,001 to 50,000	8,668	1,756	Q	Q	Q	Q	803	578
50,001 to 100,000	9,057	2,690	Q	Q	Q	206	841	Q
100,001 to 200,000	9,064	2,167	Q	N	Q	Q	930	524
200,001 to 500,000	7,176	1,420	N	Q	467	Q	1,185	Q
Over 500,000	5,908	Q	N	N	973	N	Q	Q
Year Constructed								
Before 1920	3,769	410	Q	281	Q	Q	Q	220
1920 to 1945	6,871	1,036	Q	138	Q	Q	Q	445
1946 to 1959	7,045	1,744	Q	194	318	Q	276	360
1960 to 1969	8,101	1,665	Q	Q	304	Q	744	543
1970 to 1979	10,772	1,410	Q	227	556	197	840	900
1980 to 1989	10,332	1,284	188	182	358	164	980	361
1990 to 1999	12,360	1,546	281	327	161	416	807	1,080
2000 to 2003	5,533	778	Q	Q	Q	Q	489	407
Census Region and Division								
Northeast	12,905	1,683	238	172	358	177	1,171	630
New England	2,964	Q	Q	Q	Q	Q	374	Q
Middle Atlantic	9,941	1,384	Q	127	310	Q	797	419
Midwest	17,080	2,541	320	453	438	359	1,144	880
East North Central	11,595	1,990	218	248	316	235	548	544
West North Central	5,485	552	Q	206	Q	Q	595	337
South	23,489	3,983	487	764	838	438	1,694	1,844
South Atlantic	12,258	2,445	223	433	469	280	939	897
East South Central	3,393	341	Q	99	Q	Q	368	353
West South Central	7,837	1,198	Q	232	235	Q	387	594
West	11,310	1,667	Q	265	270	283	1,087	963
Mountain	3,675	640	Q	Q	Q	Q	438	210
Pacific	7,635	1,027	Q	232	176	147	649	753
Climate Zone: 30-Year Average								
Under 2,000 CDD and --								
More than 7,000 HDD	10,622	1,537	271	227	262	213	768	710
5,500-7,000 HDD	17,335	2,800	368	400	450	334	1,314	865
4,000-5,499 HDD	11,504	1,403	Q	219	323	240	1,132	695
Fewer than 4,000 HDD	15,739	2,435	273	440	592	252	1,275	1,454
2,000 CDD or More and --								
Fewer than 4,000 HDD	9,584	1,698	Q	366	278	218	608	592
Number of Floors								
One	25,981	3,696	961	937	Q	441	646	2,742
Two	16,270	2,911	263	379	Q	428	950	932
Three	7,501	1,639	Q	176	Q	Q	618	416
Four to Nine	10,085	1,585	Q	Q	989	189	2,007	Q
Ten or More	4,947	Q	N	N	527	Q	875	Q

Table B12. Selected Principal Building Activity: Part 1, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)							
		Principal Building Activity						
					Health Care			
	All Buildings*	Education	Food Sales	Food Service	Inpatient	Outpatient	Lodging	Retail (Other Than Mall)
All Buildings*	64,783	9,874	1,255	1,654	1,905	1,258	5,096	4,317
Elevators and Escalators (more than one may apply)								
Any Elevators	24,617	4,476	Q	Q	1,813	532	3,377	584
Number of Elevators								
One	8,221	2,690	Q	Q	Q	212	584	Q
Two to Five	10,129	1,767	N	Q	413	257	2,033	Q
Six or More	6,268	Q	N	N	1,365	Q	Q	Q
Any Escalators	2,350	Q	N	Q	Q	Q	Q	Q
Number of Workers (main shift)								
Fewer than 5	15,492	612	484	336	N	Q	802	1,235
5 to 9	6,166	378	Q	413	N	254	437	828
10 to 19	7,803	740	Q	421	Q	Q	1,023	755
20 to 49	10,989	2,565	Q	367	Q	312	1,049	440
50 to 99	7,934	2,928	Q	Q	Q	Q	703	572
100 to 249	6,871	1,995	Q	Q	379	304	562	333
250 or More	9,528	655	N	N	1,464	Q	Q	Q
Weekly Operating Hours								
Fewer than 40	6,863	663	Q	98	N	Q	Q	Q
40 to 48	11,622	2,556	Q	Q	N	450	Q	469
49 to 60	15,723	2,942	Q	178	N	421	N	1,434
61 to 84	10,334	2,317	249	512	N	Q	Q	1,486
85 to 167	7,092	1,313	639	651	N	Q	Q	629
Open Continuously	13,149	Q	252	Q	1,905	Q	5,054	Q
Ownership and Occupancy								
Nongovernment Owned	49,421	2,070	1,243	1,547	1,557	1,105	4,734	4,312
Owner Occupied	23,591	1,232	541	489	911	700	1,624	2,020
Nonowner Occupied	23,914	839	702	1,058	646	405	3,110	2,292
Unoccupied	1,916	N	N	N	N	N	N	N
Government Owned	15,363	7,804	Q	Q	348	Q	363	Q
Federal	1,956	Q	N	N	Q	Q	Q	Q
State	3,808	1,671	Q	Q	Q	Q	Q	N
Local	9,599	6,067	Q	Q	Q	Q	Q	N
Vacancy Status								
Completely Vacant	2,161	N	N	N	N	N	N	N
Mostly Vacant	406	N	N	N	N	N	N	N
Partially Vacant	12,382	1,328	Q	222	415	326	631	313
Not At All Vacant	49,834	8,546	1,203	1,432	1,490	932	4,466	4,004
Number of Establishments								
One	45,144	8,714	1,057	1,375	1,328	676	4,234	3,410
2 to 5	10,960	946	Q	246	361	374	783	630
6 to 10	1,958	Q	N	Q	Q	Q	Q	Q
11 to 20	1,951	N	N	N	Q	Q	N	Q
More than 20	2,609	N	Q	N	Q	Q	N	Q
Currently Unoccupied	2,161	N	N	N	N	N	N	N

Table B12. Selected Principal Building Activity: Part 1, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)							
		Principal Building Activity						
					Health Care			
	All Buildings*	Education	Food Sales	Food Service	Inpatient	Outpatient	Lodging	Retail (Other Than Mall)
All Buildings*	64,783	9,874	1,255	1,654	1,905	1,258	5,096	4,317
Multibuilding Facility								
Not Part of a Multibuilding Facility	40,048	4,232	1,109	1,390	397	867	2,859	3,610
College or University	3,480	1,549	N	Q	Q	Q	369	Q
Primary or Secondary School	3,947	3,437	N	Q	N	Q	Q	N
Office Complex	2,712	Q	Q	N	Q	Q	Q	Q
Retail Complex	1,238	N	Q	Q	N	N	N	553
Religious Campus or Complex	2,347	453	N	Q	N	N	Q	N
Health Care Complex	2,303	Q	N	Q	1,482	326	309	N
Lodging or Resort Complex	912	Q	N	Q	N	N	799	Q
Government Complex	2,014	N	N	Q	N	Q	N	N
Other	5,783	Q	N	Q	N	Q	Q	Q
Predominant Exterior Wall Material								
Brick, Stone or Stucco	32,817	7,229	559	1,047	1,131	874	3,054	1,341
Concrete (Block or Poured)	10,832	1,265	342	263	428	Q	1,069	1,108
Concrete Panels	6,559	427	Q	Q	201	Q	Q	349
Siding or Shingles	4,120	437	Q	191	Q	Q	466	403
Metal Panels	7,912	176	Q	Q	Q	Q	N	1,087
Window Glass	1,024	Q	N	Q	Q	N	Q	Q
Other	1,113	Q	Q	Q	Q	Q	Q	Q
No One Major Type	406	Q	N	Q	Q	N	Q	Q
Predominant Roof Material								
Built-Up	21,170	3,901	360	477	980	384	1,571	1,236
Shingles (Not Wood)	10,195	1,287	301	332	Q	427	1,314	454
Metal Surfacing	11,944	1,002	Q	311	Q	Q	Q	1,345
Synthetic or Rubber	14,730	2,829	274	315	770	266	1,182	925
Slate or Tile	2,462	533	Q	Q	Q	Q	250	Q
Wooden Materials	887	Q	Q	Q	N	Q	Q	Q
Concrete	2,231	Q	Q	Q	Q	Q	Q	Q
Other	598	Q	Q	Q	N	N	Q	N
No One Major Type	565	Q	Q	Q	Q	Q	N	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)								
Any Type of Renovation Since 1980	17,844	3,787	351	517	1,155	275	1,339	926
Addition or Annex	6,551	1,539	Q	Q	880	Q	500	188
Reduction In Floorspace	1,012	Q	N	Q	Q	Q	Q	Q
Cosmetic Improvements	13,119	2,762	299	411	848	236	1,120	701
Wall or Roof Replacement	8,070	1,961	Q	151	572	Q	626	363
Interior Wall Re-Configuration	8,518	1,585	Q	149	805	180	523	434
HVAC Equipment Upgrade	10,768	2,636	Q	270	1,024	Q	854	478
Lighting Upgrade	10,275	2,592	Q	241	767	Q	748	488
Window Replacement	6,354	1,652	Q	Q	411	Q	437	328
Plumbing System Upgrade	7,144	1,607	Q	201	634	Q	562	325
Insulation Upgrade	4,015	916	Q	Q	280	Q	Q	230
Other Renovation	523	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	18,714	2,479	324	437	161	288	1,481	1,544
Building Newer than 1980	28,225	3,608	579	699	589	695	2,276	1,848

Table B12. Selected Principal Building Activity: Part 1, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)							
		Principal Building Activity						
					Health Care			
	All Buildings*	Education	Food Sales	Food Service	Inpatient	Outpatient	Lodging	Retail (Other Than Mall)
All Buildings*	64,783	9,874	1,255	1,654	1,905	1,258	5,096	4,317
Energy Sources (more than one may apply)								
Electricity	63,307	9,871	1,237	1,654	1,905	1,258	5,096	4,317
Natural Gas	43,468	7,045	747	1,396	1,805	739	4,256	2,866
Fuel Oil	15,157	1,864	Q	Q	1,683	199	2,193	501
District Heat	5,443	1,145	N	Q	436	Q	345	Q
District Chilled Water	2,853	768	N	Q	279	Q	Q	Q
Propane	7,076	855	Q	220	329	Q	614	382
Other	909	Q	Q	N	Q	N	Q	Q
Energy End Uses (more than one may apply)								
Buildings with Space Heating	60,028	9,755	1,131	1,608	1,905	1,195	4,994	4,075
Buildings with Cooling	56,940	9,200	1,198	1,583	1,899	1,258	4,841	4,079
Buildings with Water Heating	56,478	9,481	1,130	1,654	1,905	1,255	5,096	3,459
Buildings with Cooking	22,237	6,402	677	1,611	1,819	Q	3,184	771
Buildings with Manufacturing	3,138	Q	Q	Q	Q	Q	Q	Q
Buildings with Electricity Generation	12,821	1,776	Q	Q	1,648	214	1,831	504
Heating Equipment (more than one may apply)								
Heat Pumps	8,814	1,787	Q	168	424	217	1,183	444
Packaged Heat Pumps	5,442	918	Q	Q	Q	Q	662	279
Split-System Heat Pumps	2,581	382	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps	2,691	923	N	Q	Q	Q	754	Q
Furnaces	19,615	1,855	567	675	386	400	1,065	2,049
Individual Space Heaters	12,545	1,500	Q	186	409	191	1,462	667
District Heat	5,166	1,106	N	Q	353	Q	Q	Q
Boilers	20,423	5,171	Q	328	1,477	380	2,773	383
Packaged Heating Units	18,021	2,596	422	591	672	270	1,356	1,397
Other	3,262	Q	Q	Q	Q	Q	Q	Q
Cooling Equipment (more than one may apply)								
Residential-Type Central Air Conditioners	11,035	1,263	173	468	321	384	1,102	624
Heat Pumps	9,041	1,674	Q	217	412	213	1,172	471
Packaged Heat Pumps	5,426	804	Q	Q	322	Q	651	304
Split-System Heat Pumps	2,606	382	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps	2,940	893	N	Q	Q	Q	754	Q
Individual Air Conditioners	12,558	2,607	Q	234	607	Q	2,306	564
District Chilled Water	2,853	768	N	Q	279	Q	Q	Q
Central Chillers	11,636	2,714	N	Q	1,348	176	1,401	Q
Packaged Air Conditioning Units	29,969	4,318	784	988	1,108	585	2,003	2,723
Swamp Coolers	1,561	Q	Q	Q	Q	N	Q	Q
Other	1,232	Q	Q	Q	Q	N	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)								
Heating	16,403	2,519	298	498	418	262	1,703	1,121
Cooling	20,995	3,445	378	608	893	333	2,026	1,346

Table B12. Selected Principal Building Activity: Part 1, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)							
		Principal Building Activity						
					Health Care			
	All Buildings*	Education	Food Sales	Food Service	Inpatient	Outpatient	Lodging	Retail (Other Than Mall)
All Buildings*	64,783	9,874	1,255	1,654	1,905	1,258	5,096	4,317
Office Equipment (more than one may apply)								
Computers	55,627	9,649	986	1,205	1,752	1,252	4,713	3,751
With Flat Screen Monitors	26,417	4,601	Q	381	1,566	688	2,178	1,324
Dedicated Servers	36,338	6,895	447	427	1,628	689	3,369	1,870
Laser Printers	33,012	6,487	596	660	876	632	2,858	2,293
Inkjet Printers	32,210	4,787	524	482	1,443	836	2,143	2,061
FAX Machines	52,373	8,740	901	1,135	1,901	1,184	4,384	3,761
Photocopiers	46,257	8,786	592	347	1,876	1,104	3,686	2,626
Number of Computers								
None	9,156	225	269	448	Q	Q	383	566
1 to 4	12,395	548	551	789	Q	255	911	1,637
5 to 9	7,179	315	Q	197	Q	Q	875	792
10 to 19	6,610	597	Q	Q	Q	225	804	455
20 to 49	7,414	1,226	Q	Q	Q	Q	723	513
50 to 99	5,376	1,583	N	N	Q	182	Q	Q
100 to 249	6,690	3,143	N	N	245	Q	Q	Q
250 or More	9,963	2,238	N	N	1,278	Q	Q	Q
Number of Dedicated Servers								
None	28,445	2,979	808	1,226	Q	569	1,727	2,447
1 to 4	24,116	5,213	427	316	560	490	3,041	1,619
5 to 9	3,864	788	Q	Q	205	Q	Q	Q
10 to 19	3,027	Q	N	N	348	Q	Q	Q
20 to 49	2,583	Q	N	N	301	Q	Q	Q
50 or More	2,748	Q	N	N	214	Q	Q	N
Number of Photocopiers								
None	18,526	1,088	663	1,307	Q	Q	1,410	1,691
One	15,475	1,713	481	201	Q	435	1,461	1,739
2 to 4	15,082	4,477	Q	Q	Q	263	1,405	654
5 to 9	5,515	1,674	N	N	187	171	Q	Q
10 or More	10,185	922	N	N	1,507	235	Q	Q
Energy-Related Space Functions (more than one may apply)								
Commercial Food Preparation	22,223	6,402	677	1,611	1,819	Q	3,184	771
Activities with Large Amounts of Hot Water	19,482	4,524	Q	1,009	1,760	172	4,630	421
Separate Computer Area	26,873	7,518	Q	Q	1,598	375	2,227	652
HVAC Conservation Features (more than one may apply)								
Variable Air-Volume System	19,597	4,050	Q	350	1,446	439	1,459	448
Economizer Cycle	21,108	4,284	Q	335	1,337	421	1,813	1,049
HVAC Maintenance	51,163	8,954	894	1,289	1,856	1,091	4,491	3,127
Energy Management and Control System (EMCS)	15,630	5,073	Q	Q	775	267	643	740

Table B12. Selected Principal Building Activity: Part 1, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)							
		Principal Building Activity						
					Health Care			
	All Buildings*	Education	Food Sales	Food Service	Inpatient	Outpatient	Lodging	Retail (Other Than Mall)
All Buildings*	64,783	9,874	1,255	1,654	1,905	1,258	5,096	4,317
Window and Interior Lighting Features (more than one may apply)								
Multipaned Windows	38,910	6,496	738	979	1,659	836	3,892	2,210
Tinted Window Glass	29,887	4,468	333	586	1,569	710	2,052	1,864
Reflective Window Glass	8,544	1,274	Q	137	790	169	587	478
External Overhangs or Awnings	17,242	2,623	465	848	810	306	1,934	1,916
Skylights or Atriums	12,546	2,457	Q	Q	861	247	1,589	765
Daylighting Sensors	2,868	473	Q	Q	304	Q	548	Q
Specular Reflectors	26,118	4,383	293	467	1,299	358	2,262	1,236
Electronic Ballasts	46,882	8,358	929	1,100	1,822	944	4,147	2,981
Energy Management and Control System (EMCS) for Lighting	4,781	1,144	Q	Q	Q	Q	Q	406
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]								
Heating	42,722	8,313	465	1,091	833	853	2,656	3,126
Cooling	43,205	8,366	545	1,205	891	871	2,689	3,249
Lighting	46,987	9,430	895	1,507	N	1,148	Q	4,048
Office Equipment	19,397	4,998	198	356	N	456	Q	1,636

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

a The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B13. Selected Principal Activity: Part 2, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)						
		Principal Building Activity					
	All Buildings*	Office	Public Assembly	Public Order and Safety	Religious Worship	Service	Warehouse and Storage
All Buildings*	4,645	824	277	71	370	622	597
Building Floorspace (Square Feet)							
1,001 to 5,000	2,552	503	119	37	152	434	294
5,001 to 10,000	889	127	67	Q	104	100	110
10,001 to 25,000	738	116	69	Q	83	66	130
25,001 to 50,000	241	43	9	Q	27	17	27
50,001 to 100,000	129	17	7	Q	Q	Q	21
100,001 to 200,000	65	11	6	Q	Q	Q	8
200,001 to 500,000	25	5	Q	Q	Q	Q	4
Over 500,000	7	2	Q	Q	N	Q	Q
Year Constructed							
Before 1920	330	70	31	Q	65	Q	20
1920 to 1945	527	85	36	Q	52	90	39
1946 to 1959	562	75	45	Q	58	59	44
1960 to 1969	579	116	30	Q	54	75	47
1970 to 1979	731	145	44	Q	41	117	78
1980 to 1989	707	153	31	Q	43	108	108
1990 to 1999	876	142	42	21	35	110	164
2000 to 2003	334	39	18	Q	23	42	98
Census Region and Division							
Northeast	726	155	63	23	52	100	65
New England	233	47	Q	Q	Q	Q	Q
Middle Atlantic	493	108	29	Q	41	79	46
Midwest	1,266	231	57	20	107	221	160
East North Central	696	134	25	Q	62	95	95
West North Central	571	97	31	Q	46	126	66
South	1,775	250	92	15	158	198	277
South Atlantic	874	125	44	Q	77	101	125
East South Central	348	41	Q	Q	35	51	58
West South Central	553	84	38	Q	46	46	93
West	878	187	65	Q	53	103	95
Mountain	299	62	Q	Q	Q	42	31
Pacific	580	125	48	Q	33	61	64
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	855	154	66	Q	51	145	106
5,500-7,000 HDD	1,173	219	59	25	116	173	132
4,000-5,499 HDD	673	135	29	Q	39	104	82
Fewer than 4,000 HDD	1,276	195	76	Q	117	156	169
2,000 CDD or More and --							
Fewer than 4,000 HDD	669	122	47	Q	47	44	108
Number of Floors							
One	3,136	441	168	50	193	510	493
Two	1,031	234	81	Q	134	95	84
Three	339	98	16	Q	40	Q	Q
Four to Nine	128	44	11	Q	Q	Q	Q
Ten or More	12	6	Q	Q	N	N	Q

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Table B13. Selected Principal Activity: Part 2, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)						
		Principal Building Activity					
	All Buildings*	Office	Public Assembly	Public Order and Safety	Religious Worship	Service	Warehouse and Storage
All Buildings*	4,645	824	277	71	370	622	597
Elevators and Escalators (more than one may apply)							
Any Elevators	309	102	19	6	24	Q	11
Number of Elevators							
One	208	67	13	Q	24	Q	9
Two to Five	88	29	6	Q	Q	Q	Q
Six or More	13	6	Q	Q	Q	Q	N
Any Escalators	6	3	Q	Q	N	Q	Q
Number of Workers (main shift)							
Fewer than 5	2,653	255	196	30	283	462	423
5 to 9	778	215	33	Q	42	78	62
10 to 19	563	133	27	Q	31	44	67
20 to 49	398	128	12	Q	10	29	34
50 to 99	147	46	Q	Q	Q	Q	7
100 to 249	77	30	Q	Q	Q	Q	3
250 or More	30	18	Q	Q	Q	Q	Q
Weekly Operating Hours							
Fewer than 40	1,002	62	120	Q	246	77	126
40 to 48	1,117	375	39	Q	32	204	140
49 to 60	1,062	262	34	Q	45	200	133
61 to 84	591	59	42	N	27	78	50
85 to 167	400	28	25	N	8	34	51
Open Continuously	475	38	16	39	Q	29	96
Ownership and Occupancy							
Nongovernment Owned	4,011	742	182	Q	370	542	571
Owner Occupied	1,841	402	114	Q	247	285	175
Nonowner Occupied	2,029	339	68	Q	124	257	396
Unoccupied	141	N	N	N	N	N	N
Government Owned	635	82	94	47	N	80	26
Federal	46	7	Q	Q	N	12	Q
State	164	28	23	Q	N	Q	Q
Local	425	47	67	42	N	42	Q
Vacancy Status							
Completely Vacant	157	N	N	N	N	N	N
Mostly Vacant	25	N	N	N	N	N	N
Partially Vacant	548	140	38	Q	18	62	119
Not At All Vacant	3,915	684	239	69	353	560	478
Number of Establishments							
One	3,754	536	237	57	339	561	518
2 to 5	643	228	35	Q	31	58	74
6 to 10	55	37	Q	Q	N	Q	Q
11 to 20	23	14	Q	Q	Q	Q	Q
More than 20	14	7	Q	N	N	N	Q
Currently Unoccupied	157	N	N	N	N	N	N

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Table B13. Selected Principal Activity: Part 2, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)						
		Principal Building Activity					
	All Buildings*	Office	Public Assembly	Public Order and Safety	Religious Worship	Service	Warehouse and Storage
All Buildings*	4,645	824	277	71	370	622	597
Multibuilding Facility							
Not Part of a Multibuilding Facility	3,169	584	193	59	250	473	295
College or University	83	12	7	N	Q	Q	Q
Primary or Secondary School	254	Q	35	N	N	Q	Q
Office Complex	111	82	Q	N	N	Q	Q
Retail Complex	151	Q	N	N	N	21	Q
Religious Campus or Complex	195	Q	Q	N	120	N	Q
Health Care Complex	39	Q	N	N	N	N	Q
Lodging or Resort Complex	61	Q	Q	N	N	N	Q
Government Complex	87	25	Q	11	N	Q	Q
Other	496	65	15	Q	N	90	233
Predominant Exterior Wall Material							
Brick, Stone or Stucco	2,044	475	129	21	241	140	119
Concrete (Block or Poured)	786	75	48	25	34	149	85
Concrete Panels	131	28	Q	Q	Q	Q	34
Siding or Shingles	779	163	55	Q	74	94	61
Metal Panels	825	60	30	Q	Q	227	289
Window Glass	17	6	N	N	Q	N	N
Other	47	Q	Q	Q	Q	Q	Q
No One Major Type	18	Q	Q	N	N	Q	Q
Predominant Roof Material							
Built-Up	1,036	219	61	17	22	112	79
Shingles (Not Wood)	1,325	248	94	Q	235	129	65
Metal Surfacing	1,288	114	61	22	52	294	396
Synthetic or Rubber	511	113	36	Q	Q	50	34
Slate or Tile	263	65	Q	Q	44	Q	Q
Wooden Materials	122	43	Q	N	Q	Q	Q
Concrete	61	16	Q	Q	Q	Q	Q
Other	16	Q	Q	N	Q	Q	Q
No One Major Type	25	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)							
Any Type of Renovation Since 1980	1,018	193	75	Q	108	111	59
Addition or Annex	256	42	28	Q	24	35	Q
Reduction In Floorspace	22	Q	Q	N	Q	Q	Q
Cosmetic Improvements	741	139	63	Q	80	61	37
Wall or Roof Replacement	370	61	26	Q	45	41	23
Interior Wall Re-Configuration	411	103	19	Q	27	44	26
HVAC Equipment Upgrade	442	73	39	Q	48	35	18
Lighting Upgrade	455	94	28	Q	46	41	17
Window Replacement	310	72	18	Q	32	Q	Q
Plumbing System Upgrade	315	49	27	Q	31	Q	Q
Insulation Upgrade	227	51	19	Q	Q	Q	Q
Other Renovation	19	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	1,710	298	110	16	162	251	168
Building Newer than 1980	1,917	333	91	43	100	259	370

Table B13. Selected Principal Activity: Part 2, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)						
		Principal Building Activity					
	All Buildings*	Office	Public Assembly	Public Order and Safety	Religious Worship	Service	Warehouse and Storage
All Buildings*	4,645	824	277	71	370	622	597
Energy Sources (more than one may apply)							
Electricity	4,404	824	274	71	370	601	464
Natural Gas	2,391	488	146	36	220	281	187
Fuel Oil	451	65	42	23	38	93	37
District Heat	67	16	6	Q	Q	Q	Q
District Chilled Water	33	9	3	Q	Q	N	Q
Propane	502	39	37	Q	51	92	48
Other	61	Q	Q	Q	N	34	Q
Energy End Uses (more than one may apply)							
Buildings with Space Heating	3,982	802	258	70	359	515	316
Buildings with Cooling	3,625	790	213	61	308	370	266
Buildings with Water Heating	3,472	733	227	70	315	418	243
Buildings with Cooking	801	23	73	14	108	Q	Q
Buildings with Manufacturing	119	19	Q	N	N	Q	44
Buildings with Electricity Generation	149	38	5	19	Q	Q	13
Heating Equipment (more than one may apply)							
Heat Pumps	476	113	24	Q	54	29	32
Packaged Heat Pumps	278	67	Q	Q	31	Q	18
Split-System Heat Pumps	166	42	Q	Q	27	Q	15
Individual Room Heat Pumps	58	8	Q	Q	Q	N	Q
Furnaces	1,864	362	120	41	193	288	156
Individual Space Heaters	819	157	46	Q	71	131	98
District Heat	65	16	6	Q	Q	Q	Q
Boilers	579	123	48	13	73	49	25
Packaged Heating Units	953	214	56	16	63	96	68
Other	205	33	Q	Q	Q	60	Q
Cooling Equipment (more than one may apply)							
Residential-Type Central Air Conditioners	1,006	273	63	Q	102	97	91
Heat Pumps	492	107	27	Q	57	33	28
Packaged Heat Pumps	288	65	Q	Q	33	Q	16
Split-System Heat Pumps	174	39	Q	Q	28	Q	Q
Individual Room Heat Pumps	58	8	Q	Q	Q	N	Q
Individual Air Conditioners	742	107	40	20	74	116	48
District Chilled Water	33	9	3	Q	Q	N	Q
Central Chillers	111	29	6	Q	Q	Q	Q
Packaged Air Conditioning Units	1,613	339	96	27	138	136	113
Swamp Coolers	122	Q	Q	Q	Q	Q	Q
Other	40	15	Q	N	Q	N	Q
Main Equipment Replaced Since 1990 (more than one may apply)							
Heating	1,197	250	82	Q	130	165	71
Cooling	1,356	295	89	19	135	131	87

Table B13. Selected Principal Activity: Part 2, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)						
		Principal Building Activity					
	All Buildings*	Office	Public Assembly	Public Order and Safety	Religious Worship	Service	Warehouse and Storage
All Buildings*	4,645	824	277	71	370	622	597
Office Equipment (more than one may apply)							
Computers	3,081	807	167	62	190	336	253
With Flat Screen Monitors	877	330	41	12	35	66	62
Dedicated Servers	1,175	450	38	17	36	85	118
Laser Printers	1,970	446	120	48	159	220	165
Inkjet Printers	1,420	515	50	26	52	124	125
FAX Machines	2,715	796	107	56	131	281	249
Photocopiers	1,939	655	99	33	187	139	179
Number of Computers							
None	1,565	Q	109	Q	181	286	344
1 to 4	1,670	263	110	40	143	256	127
5 to 9	559	194	21	Q	34	54	56
10 to 19	370	145	17	Q	10	19	48
20 to 49	255	116	13	Q	Q	Q	19
50 to 99	110	45	Q	Q	Q	Q	Q
100 to 249	79	27	Q	Q	Q	Q	Q
250 or More	38	17	Q	Q	N	Q	Q
Number of Dedicated Servers							
None	3,471	374	238	53	334	537	479
1 to 4	1,060	382	33	15	36	81	112
5 to 9	58	29	Q	Q	Q	Q	Q
10 to 19	30	20	Q	Q	Q	Q	Q
20 to 49	17	9	Q	Q	N	N	Q
50 or More	10	8	N	Q	N	N	Q
Number of Photocopiers							
None	2,706	169	177	37	183	483	418
One	1,250	337	68	22	152	117	125
2 to 4	549	241	23	Q	35	18	50
5 to 9	85	41	Q	Q	Q	Q	3
10 or More	54	36	Q	Q	N	Q	Q
Energy-Related Space Functions (more than one may apply)							
Commercial Food Preparation	799	23	73	14	108	Q	Q
Activities with Large Amounts of Hot Water	567	36	53	13	33	50	Q
Separate Computer Area	553	201	36	10	16	19	44
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	466	114	26	7	34	30	29
Economizer Cycle	508	124	40	11	24	25	26
HVAC Maintenance	2,581	571	171	54	216	260	189
Energy Management and Control System (EMCS)	252	51	23	Q	Q	Q	8

Table B13. Selected Principal Activity: Part 2, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)						
		Principal Building Activity					
	All Buildings*	Office	Public Assembly	Public Order and Safety	Religious Worship	Service	Warehouse and Storage
All Buildings*	4,645	824	277	71	370	622	597
Window and Interior Lighting Features (more than one may apply)							
Multipaned Windows	2,201	479	127	46	192	267	170
Tinted Window Glass	1,323	268	55	22	162	144	104
Reflective Window Glass	308	73	21	Q	17	38	29
External Overhangs or Awnings	1,233	242	67	Q	77	132	82
Skylights or Atriums	331	66	13	Q	16	66	39
Daylighting Sensors	74	17	Q	Q	Q	Q	Q
Specular Reflectors	928	219	60	23	73	136	77
Electronic Ballasts	2,577	507	153	47	196	354	222
Energy Management and Control System (EMCS) for Lighting	60	12	Q	Q	Q	Q	Q
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]							
Heating	2,878	539	214	38	336	368	229
Cooling	2,761	570	175	38	288	303	199
Lighting	3,685	766	242	22	354	538	356
Office Equipment	1,504	371	90	Q	133	174	142

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B14. Selected Principal Activity: Part 2, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
		Principal Building Activity					
	All Buildings*	Office	Public Assembly	Public Order and Safety	Religious Worship	Service	Warehouse and Storage
All Buildings*	64,783	12,208	3,939	1,090	3,754	4,050	10,078
Building Floorspace (Square Feet)							
1,001 to 5,000	6,789	1,382	336	122	416	1,034	895
5,001 to 10,000	6,585	938	518	Q	744	722	868
10,001 to 25,000	11,535	1,887	1,077	Q	1,235	1,021	2,064
25,001 to 50,000	8,668	1,506	301	Q	930	560	1,043
50,001 to 100,000	9,057	1,209	474	Q	Q	Q	1,494
100,001 to 200,000	9,064	1,428	868	Q	Q	Q	1,162
200,001 to 500,000	7,176	1,493	Q	Q	Q	Q	1,322
Over 500,000	5,908	2,365	Q	Q	N	Q	Q
Year Constructed							
Before 1920	3,769	749	323	Q	586	Q	254
1920 to 1945	6,871	1,186	353	Q	334	473	1,208
1946 to 1959	7,045	917	780	Q	603	440	567
1960 to 1969	8,101	1,335	408	Q	502	447	1,051
1970 to 1979	10,772	2,162	594	Q	412	996	1,462
1980 to 1989	10,332	3,296	448	Q	414	511	1,501
1990 to 1999	12,360	1,913	734	327	566	777	2,723
2000 to 2003	5,533	650	301	Q	338	263	1,312
Census Region and Division							
Northeast	12,905	3,012	1,048	362	627	740	1,523
New England	2,964	578	Q	Q	Q	Q	Q
Middle Atlantic	9,941	2,434	769	Q	474	620	1,112
Midwest	17,080	2,989	1,012	221	1,115	1,289	3,017
East North Central	11,595	2,190	635	Q	720	775	2,023
West North Central	5,485	799	377	Q	395	514	994
South	23,489	3,782	1,174	373	1,498	1,358	3,966
South Atlantic	12,258	1,958	440	Q	721	753	1,836
East South Central	3,393	481	Q	Q	310	307	390
West South Central	7,837	1,343	498	Q	467	298	1,740
West	11,310	2,425	706	Q	515	664	1,572
Mountain	3,675	629	Q	Q	Q	345	506
Pacific	7,635	1,796	468	Q	341	319	1,066
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	10,622	1,593	876	Q	408	944	1,704
5,500-7,000 HDD	17,335	3,165	818	360	1,320	1,185	2,639
4,000-5,499 HDD	11,504	3,125	806	Q	499	644	1,479
Fewer than 4,000 HDD	15,739	2,341	910	Q	1,039	969	2,419
2,000 CDD or More and --							
Fewer than 4,000 HDD	9,584	1,985	529	Q	488	308	1,836
Number of Floors							
One	25,981	2,460	1,448	371	1,255	2,713	6,637
Two	16,270	2,269	1,428	Q	1,613	1,000	2,684
Three	7,501	1,810	308	Q	737	Q	Q
Four to Nine	10,085	2,644	693	Q	Q	Q	Q
Ten or More	4,947	3,025	Q	Q	N	N	Q

Table B14. Selected Principal Activity: Part 2, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
		Principal Building Activity					
	All Buildings*	Office	Public Assembly	Public Order and Safety	Religious Worship	Service	Warehouse and Storage
All Buildings*	64,783	12,208	3,939	1,090	3,754	4,050	10,078
Elevators and Escalators (more than one may apply)							
Any Elevators	24,617	7,721	1,256	600	669	Q	1,347
Number of Elevators							
One	8,221	1,725	459	Q	556	Q	732
Two to Five	10,129	2,832	696	Q	Q	Q	Q
Six or More	6,268	3,164	Q	Q	Q	Q	N
Any Escalators	2,350	1,143	Q	Q	N	Q	Q
Number of Workers (main shift)							
Fewer than 5	15,492	767	1,381	145	2,117	1,612	3,433
5 to 9	6,166	964	443	Q	582	513	807
10 to 19	7,803	848	588	Q	646	747	1,545
20 to 49	10,989	1,755	836	Q	246	597	1,843
50 to 99	7,934	1,291	Q	Q	Q	Q	1,025
100 to 249	6,871	1,663	Q	Q	Q	Q	585
250 or More	9,528	4,920	Q	Q	Q	Q	Q
Weekly Operating Hours							
Fewer than 40	6,863	221	679	Q	1,612	180	799
40 to 48	11,622	3,366	Q	Q	417	1,057	1,887
49 to 60	15,723	4,392	545	Q	751	1,236	3,224
61 to 84	10,334	2,009	648	N	488	796	1,323
85 to 167	7,092	504	1,012	N	361	194	1,557
Open Continuously	13,149	1,717	445	552	Q	586	1,288
Ownership and Occupancy							
Nongovernment Owned	49,421	10,515	2,189	Q	3,754	3,018	9,371
Owner Occupied	23,591	5,571	1,204	Q	2,804	1,680	3,736
Nonowner Occupied	23,914	4,944	984	Q	950	1,338	5,635
Unoccupied	1,916	N	N	N	N	N	N
Government Owned	15,363	1,693	1,751	967	N	1,032	Q
Federal	1,956	482	Q	Q	N	533	Q
State	3,808	531	726	Q	N	Q	Q
Local	9,599	680	977	853	N	293	Q
Vacancy Status							
Completely Vacant	2,161	N	N	N	N	N	N
Mostly Vacant	406	N	N	N	N	N	N
Partially Vacant	12,382	5,600	510	Q	282	350	1,928
Not At All Vacant	49,834	6,608	3,429	966	3,472	3,700	8,150
Number of Establishments							
One	45,144	4,894	3,110	643	3,272	3,509	7,560
2 to 5	10,960	2,709	677	Q	479	465	2,034
6 to 10	1,958	1,144	Q	Q	N	Q	Q
11 to 20	1,951	1,332	Q	Q	Q	Q	Q
More than 20	2,609	2,129	Q	N	N	N	Q
Currently Unoccupied	2,161	N	N	N	N	N	N

Table B14. Selected Principal Activity: Part 2, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
		Principal Building Activity					
	All Buildings*	Office	Public Assembly	Public Order and Safety	Religious Worship	Service	Warehouse and Storage
All Buildings*	64,783	12,208	3,939	1,090	3,754	4,050	10,078
Multibuilding Facility							
Not Part of a Multibuilding Facility	40,048	8,186	2,397	549	2,446	3,009	6,204
College or University	3,480	345	677	N	Q	Q	Q
Primary or Secondary School	3,947	Q	268	N	N	Q	Q
Office Complex	2,712	2,239	Q	N	N	Q	Q
Retail Complex	1,238	Q	N	N	N	157	Q
Religious Campus or Complex	2,347	Q	Q	N	1,287	N	Q
Health Care Complex	2,303	Q	N	N	N	N	Q
Lodging or Resort Complex	912	Q	Q	N	N	N	Q
Government Complex	2,014	579	Q	496	N	Q	Q
Other	5,783	564	326	Q	N	596	2,932
Predominant Exterior Wall Material							
Brick, Stone or Stucco	32,817	6,508	2,335	634	2,805	1,089	2,499
Concrete (Block or Poured)	10,832	1,216	629	247	332	1,033	1,742
Concrete Panels	6,559	1,815	Q	Q	Q	Q	1,963
Siding or Shingles	4,120	627	272	Q	413	329	570
Metal Panels	7,912	767	368	Q	Q	1,205	3,219
Window Glass	1,024	663	N	N	Q	N	N
Other	1,113	504	Q	Q	Q	Q	Q
No One Major Type	406	Q	Q	N	N	Q	Q
Predominant Roof Material							
Built-Up	21,170	4,899	931	386	440	829	2,803
Shingles (Not Wood)	10,195	1,551	703	Q	2,024	499	667
Metal Surfacing	11,944	939	775	209	456	1,627	4,174
Synthetic or Rubber	14,730	3,472	922	Q	Q	851	1,536
Slate or Tile	2,462	537	Q	Q	458	Q	Q
Wooden Materials	887	189	Q	N	Q	Q	Q
Concrete	2,231	437	Q	Q	Q	Q	Q
Other	598	Q	Q	N	Q	Q	Q
No One Major Type	565	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)							
Any Type of Renovation Since 1980	17,844	3,270	1,257	Q	1,214	895	1,695
Addition or Annex	6,551	444	870	Q	428	348	Q
Reduction In Floorspace	1,012	Q	Q	N	Q	Q	Q
Cosmetic Improvements	13,119	2,663	1,026	Q	810	545	979
Wall or Roof Replacement	8,070	1,607	773	Q	450	230	831
Interior Wall Re-Configuration	8,518	2,083	638	Q	312	315	897
HVAC Equipment Upgrade	10,768	2,287	574	Q	578	302	844
Lighting Upgrade	10,275	2,019	810	Q	489	452	783
Window Replacement	6,354	1,248	Q	Q	451	Q	Q
Plumbing System Upgrade	7,144	1,421	738	Q	392	Q	Q
Insulation Upgrade	4,015	938	277	Q	Q	Q	Q
Other Renovation	523	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	18,714	3,079	1,200	361	1,222	1,605	2,848
Building Newer than 1980	28,225	5,859	1,483	608	1,318	1,551	5,535

Table B14. Selected Principal Activity: Part 2, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
		Principal Building Activity					
	All Buildings*	Office	Public Assembly	Public Order and Safety	Religious Worship	Service	Warehouse and Storage
All Buildings*	64,783	12,208	3,939	1,090	3,754	4,050	10,078
Energy Sources (more than one may apply)							
Electricity	63,307	12,208	3,935	1,090	3,754	3,982	9,425
Natural Gas	43,468	8,208	2,723	637	2,629	2,496	5,494
Fuel Oil	15,157	4,075	939	620	453	626	1,268
District Heat	5,443	1,569	547	Q	Q	Q	Q
District Chilled Water	2,853	730	458	Q	Q	N	Q
Propane	7,076	368	393	Q	381	557	2,217
Other	909	Q	Q	Q	N	292	Q
Energy End Uses (more than one may apply)							
Buildings with Space Heating	60,028	11,929	3,777	1,083	3,581	3,687	8,126
Buildings with Cooling	56,940	12,032	3,477	1,043	3,301	3,261	7,295
Buildings with Water Heating	56,478	11,804	3,632	957	3,512	3,320	6,624
Buildings with Cooking	22,237	3,077	1,506	543	1,552	Q	Q
Buildings with Manufacturing	3,138	469	Q	N	N	Q	1,627
Buildings with Electricity Generation	12,821	4,211	537	606	Q	Q	721
Heating Equipment (more than one may apply)							
Heat Pumps	8,814	1,795	409	Q	577	457	913
Packaged Heat Pumps	5,442	1,260	Q	Q	350	Q	439
Split-System Heat Pumps	2,581	422	Q	Q	291	Q	556
Individual Room Heat Pumps	2,691	506	Q	Q	Q	N	Q
Furnaces	19,615	2,405	1,028	260	1,945	1,974	3,757
Individual Space Heaters	12,545	2,186	677	Q	875	1,010	2,457
District Heat	5,166	1,526	530	Q	Q	Q	Q
Boilers	20,423	4,117	1,421	437	1,148	791	1,031
Packaged Heating Units	18,021	3,754	879	328	733	957	3,118
Other	3,262	970	Q	Q	Q	393	Q
Cooling Equipment (more than one may apply)							
Residential-Type Central Air Conditioners	11,035	1,669	532	Q	946	1,071	1,861
Heat Pumps	9,041	1,854	473	Q	612	496	981
Packaged Heat Pumps	5,426	1,259	Q	Q	372	Q	457
Split-System Heat Pumps	2,606	434	Q	Q	305	Q	Q
Individual Room Heat Pumps	2,940	615	Q	Q	Q	N	Q
Individual Air Conditioners	12,558	1,201	951	372	847	802	1,440
District Chilled Water	2,853	730	458	Q	Q	N	Q
Central Chillers	11,636	3,839	423	Q	Q	Q	Q
Packaged Air Conditioning Units	29,969	6,171	1,684	438	1,849	1,466	4,453
Swamp Coolers	1,561	Q	Q	Q	Q	Q	Q
Other	1,232	439	Q	N	Q	N	Q
Main Equipment Replaced Since 1990 (more than one may apply)							
Heating	16,403	3,137	1,067	Q	1,239	1,269	1,964
Cooling	20,995	4,573	1,435	256	1,360	1,352	2,283

Table B14. Selected Principal Activity: Part 2, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
		Principal Building Activity					
	All Buildings*	Office	Public Assembly	Public Order and Safety	Religious Worship	Service	Warehouse and Storage
All Buildings*	64,783	12,208	3,939	1,090	3,754	4,050	10,078
Office Equipment (more than one may apply)							
Computers	55,627	12,165	3,199	1,052	2,695	3,293	7,710
With Flat Screen Monitors	26,417	8,615	1,354	547	629	1,133	2,202
Dedicated Servers	36,338	9,932	1,454	685	867	1,679	5,072
Laser Printers	33,012	5,997	2,058	656	2,229	2,114	4,455
Inkjet Printers	32,210	9,510	1,524	528	919	1,875	4,398
FAX Machines	52,373	12,067	2,690	1,010	2,149	2,999	7,330
Photocopiers	46,257	11,387	2,472	831	2,614	2,136	6,208
Number of Computers							
None	9,156	Q	740	Q	1,060	758	2,367
1 to 4	12,395	799	1,412	257	1,330	1,497	1,913
5 to 9	7,179	974	377	Q	769	837	1,405
10 to 19	6,610	958	414	Q	327	433	1,625
20 to 49	7,414	1,757	441	Q	Q	Q	1,529
50 to 99	5,376	1,281	Q	Q	Q	Q	Q
100 to 249	6,690	1,655	Q	Q	Q	Q	Q
250 or More	9,963	4,741	Q	Q	N	Q	Q
Number of Dedicated Servers							
None	28,445	2,276	2,485	405	2,887	2,372	5,006
1 to 4	24,116	4,027	1,138	432	840	1,374	3,721
5 to 9	3,864	1,277	Q	Q	Q	Q	Q
10 to 19	3,027	1,175	Q	Q	Q	Q	Q
20 to 49	2,583	1,387	Q	Q	N	N	Q
50 or More	2,748	2,066	N	Q	N	N	Q
Number of Photocopiers							
None	18,526	821	1,467	259	1,141	1,914	3,870
One	15,475	1,743	1,306	167	1,731	1,481	2,615
2 to 4	15,082	2,644	568	Q	784	396	2,477
5 to 9	5,515	1,412	Q	Q	Q	Q	531
10 or More	10,185	5,589	Q	Q	N	Q	Q
Energy-Related Space Functions (more than one may apply)							
Commercial Food Preparation	22,223	3,077	1,506	543	1,552	Q	Q
Activities with Large Amounts of Hot Water	19,482	2,299	1,574	424	775	514	Q
Separate Computer Area	26,873	7,859	910	544	528	608	2,886
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	19,597	5,973	1,084	537	609	699	1,393
Economizer Cycle	21,108	6,022	1,392	452	432	699	1,475
HVAC Maintenance	51,163	10,888	3,272	988	2,744	2,450	6,811
Energy Management and Control System (EMCS)	15,630	4,792	998	Q	Q	Q	795

Table B14. Selected Principal Activity: Part 2, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
		Principal Building Activity					
	All Buildings*	Office	Public Assembly	Public Order and Safety	Religious Worship	Service	Warehouse and Storage
All Buildings*	64,783	12,208	3,939	1,090	3,754	4,050	10,078
Window and Interior Lighting Features (more than one may apply)							
Multipaned Windows	38,910	7,897	2,466	774	2,492	1,948	4,329
Tinted Window Glass	29,887	7,278	1,283	525	1,686	1,495	4,158
Reflective Window Glass	8,544	2,558	360	Q	248	459	925
External Overhangs or Awnings	17,242	2,579	1,063	Q	987	1,038	2,098
Skylights or Atriums	12,546	2,510	650	Q	413	578	1,714
Daylighting Sensors	2,868	618	Q	Q	Q	Q	Q
Specular Reflectors	26,118	6,775	1,271	424	1,105	1,378	3,529
Electronic Ballasts	46,882	10,116	2,561	902	2,175	2,676	6,365
Energy Management and Control System (EMCS) for Lighting	4,781	1,913	Q	Q	Q	Q	Q
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]							
Heating	42,722	8,982	3,012	689	3,223	2,483	4,927
Cooling	43,205	9,407	2,920	687	3,005	2,545	5,208
Lighting	46,987	10,217	3,371	483	3,546	3,220	7,777
Office Equipment	19,397	3,337	1,367	Q	1,671	1,291	3,077

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* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B15. Employment Size Category, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)							
		Number of Workers						
	All Buildings*	Fewer than 5 Workers	5 to 9 Workers	10 to 19 Workers	20 to 49 Workers	50 to 99 Workers	100 to 249 Workers	250 or More Workers
All Buildings*	4,645	2,653	778	563	398	147	77	30
Building Floorspace (Square Feet)								
1,001 to 5,000	2,552	1,879	422	202	43	Q	Q	N
5,001 to 10,000	889	452	192	146	87	Q	Q	N
10,001 to 25,000	738	268	134	154	131	42	Q	N
25,001 to 50,000	241	36	24	38	82	44	17	Q
50,001 to 100,000	129	10	4	16	41	31	21	5
100,001 to 200,000	65	6	Q	Q	11	15	18	10
200,001 to 500,000	25	Q	Q	Q	2	4	6	8
Over 500,000	7	Q	N	N	Q	Q	Q	5
Principal Building Activity								
Education	386	150	49	57	69	42	15	3
Food Sales	226	162	Q	Q	Q	Q	Q	N
Food Service	297	101	92	68	30	Q	Q	N
Health Care	129	Q	41	Q	26	3	8	4
Inpatient	8	N	N	Q	Q	Q	4	3
Outpatient	121	Q	41	Q	26	Q	5	Q
Lodging	142	78	18	18	16	8	4	Q
Retail (Other Than Mall)	443	268	90	57	14	12	3	Q
Office	824	255	215	133	128	46	30	18
Public Assembly	277	196	33	27	12	Q	Q	Q
Public Order and Safety	71	30	Q	Q	Q	Q	Q	Q
Religious Worship	370	283	42	31	10	Q	Q	Q
Service	622	462	78	44	29	Q	Q	Q
Warehouse and Storage	597	423	62	67	34	7	3	Q
Other	79	45	Q	Q	Q	Q	Q	1
Vacant	182	179	Q	Q	Q	N	N	N
Year Constructed								
Before 1920	330	203	62	30	21	11	Q	Q
1920 to 1945	527	325	97	51	37	10	5	2
1946 to 1959	562	344	90	61	46	14	5	2
1960 to 1969	579	331	87	74	48	21	14	3
1970 to 1979	731	394	118	91	85	23	15	5
1980 to 1989	707	383	148	69	54	30	14	9
1990 to 1999	876	481	128	135	83	26	18	6
2000 to 2003	334	192	49	49	25	13	4	2
Census Region								
Northeast	726	363	137	110	66	27	16	7
Midwest	1,266	787	173	145	102	37	15	6
South	1,775	1,033	317	200	136	50	28	10
West	878	469	151	108	94	33	18	6
Climate Zone: 30-Year Average								
Under 2,000 CDD and --								
More than 7,000 HDD	855	501	131	101	81	28	10	3
5,500-7,000 HDD	1,173	683	183	151	96	36	16	8
4,000-5,499 HDD	673	360	124	79	62	25	16	6
Fewer than 4,000 HDD	1,276	747	218	141	102	40	22	6
2,000 CDD or More and --								
Fewer than 4,000 HDD	669	362	123	90	56	19	12	6

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Table B15. Employment Size Category, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)							
		Number of Workers						
	All Buildings*	Fewer than 5 Workers	5 to 9 Workers	10 to 19 Workers	20 to 49 Workers	50 to 99 Workers	100 to 249 Workers	250 or More Workers
All Buildings*	4,645	2,653	778	563	398	147	77	30
Number of Floors								
One	3,136	2,005	515	333	198	69	13	3
Two	1,031	491	174	162	134	41	25	4
Three	339	134	77	48	40	19	18	3
Four to Nine	128	23	12	20	24	17	19	13
Ten or More	12	N	Q	Q	Q	Q	2	7
Elevators and Escalators (more than one may apply)								
Any Elevators	309	39	20	54	67	50	53	27
Number of Elevators								
One	208	33	18	48	50	33	24	3
Two to Five	88	Q	Q	6	17	16	27	15
Six or More	13	Q	N	N	Q	Q	2	9
Any Escalators	6	Q	Q	N	Q	Q	Q	3
Weekly Operating Hours								
Fewer than 40	1,002	867	73	40	12	Q	Q	Q
40 to 48	1,117	567	240	161	98	34	14	3
49 to 60	1,062	494	230	150	120	40	19	8
61 to 84	591	255	106	113	69	28	16	4
85 to 167	400	175	74	63	54	21	8	4
Open Continuously	475	294	56	36	43	18	19	10
Ownership and Occupancy								
Nongovernment Owned	4,011	2,347	701	488	303	97	53	22
Owner Occupied	1,841	989	376	238	156	42	30	9
Nonowner Occupied	2,029	1,217	325	250	147	55	23	13
Unoccupied	141	141	N	N	N	N	N	N
Government Owned	635	306	78	75	94	50	24	8
Federal	46	Q	Q	Q	Q	Q	Q	1
State	164	72	Q	26	26	12	6	Q
Local	425	211	52	43	64	34	16	4
Vacancy Status								
Completely Vacant	157	157	N	N	N	N	N	N
Mostly Vacant	25	Q	Q	Q	Q	N	N	N
Partially Vacant	548	322	72	52	46	24	20	12
Not At All Vacant	3,915	2,152	704	509	351	123	57	18
Number of Establishments								
One	3,754	2,233	627	442	291	100	47	13
2 to 5	643	252	149	110	84	29	14	6
6 to 10	55	Q	Q	Q	17	9	6	4
11 to 20	23	Q	Q	N	Q	6	6	2
More than 20	14	Q	N	Q	Q	Q	4	4
Currently Unoccupied	157	157	N	N	N	N	N	N

Table B15. Employment Size Category, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)							
		Number of Workers						
	All Buildings*	Fewer than 5 Workers	5 to 9 Workers	10 to 19 Workers	20 to 49 Workers	50 to 99 Workers	100 to 249 Workers	250 or More Workers
All Buildings*	4,645	2,653	778	563	398	147	77	30
Energy Sources (more than one may apply)								
Electricity	4,404	2,415	775	563	397	147	77	30
Natural Gas	2,391	1,082	474	359	289	113	52	23
Fuel Oil	451	252	67	38	36	22	20	16
District Heat	67	20	Q	Q	16	7	9	5
District Chilled Water	33	Q	Q	Q	6	7	6	4
Propane	502	318	75	59	30	9	8	3
Other	132	84	Q	Q	13	Q	Q	1
Energy End Uses (more than one may apply)								
Buildings with Space Heating	3,982	2,080	733	536	387	141	76	29
Buildings with Cooling	3,625	1,746	725	523	386	139	76	30
Buildings with Water Heating	3,472	1,653	675	514	384	142	75	30
Buildings with Cooking	801	301	152	134	115	53	31	14
Buildings with Manufacturing	119	48	Q	19	21	Q	3	2
Buildings with Electricity Generation	149	23	Q	21	31	23	22	16
Heating Equipment (more than one may apply)								
Heat Pumps	476	236	89	64	42	23	16	5
Packaged Heat Pumps	278	133	60	32	24	16	10	4
Split-System Heat Pumps	166	92	Q	29	12	Q	Q	1
Individual Room Heat Pumps	58	Q	Q	Q	11	8	5	2
Furnaces	1,864	1,013	399	244	152	40	12	4
Individual Space Heaters	819	470	120	102	86	22	14	5
District Heat	65	Q	Q	Q	16	7	9	5
Boilers	579	216	88	81	94	51	34	15
Packaged Heating Units	953	366	186	165	137	58	33	9
Other	205	125	Q	28	19	5	Q	3
Cooling Equipment (more than one may apply)								
Residential-Type Central Air Conditioners	1,006	508	240	146	81	19	9	2
Heat Pumps	492	257	89	57	47	22	15	5
Packaged Heat Pumps	288	142	60	30	28	15	9	3
Split-System Heat Pumps	174	104	Q	24	13	Q	Q	1
Individual Room Heat Pumps	58	Q	Q	Q	11	8	5	2
Individual Air Conditioners	742	428	110	93	68	25	14	4
District Chilled Water	33	Q	Q	Q	6	7	6	4
Central Chillers	111	Q	Q	10	29	20	22	14
Packaged Air Conditioning Units	1,613	619	345	274	223	92	44	16
Swamp Coolers	122	64	Q	Q	21	Q	Q	Q
Other	40	Q	Q	Q	Q	Q	Q	1
Main Equipment Replaced Since 1990 (more than one may apply)								
Heating	1,197	626	227	158	123	37	20	6
Cooling	1,356	667	268	183	154	48	25	10

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Table B15. Employment Size Category, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)							
		Number of Workers						
	All Buildings*	Fewer than 5 Workers	5 to 9 Workers	10 to 19 Workers	20 to 49 Workers	50 to 99 Workers	100 to 249 Workers	250 or More Workers
All Buildings*	4,645	2,653	778	563	398	147	77	30
Office Equipment (more than one may apply)								
Computers	3,081	1,271	663	508	392	143	75	30
With Flat Screen Monitors	877	219	186	150	166	83	46	26
Dedicated Servers	1,175	188	256	262	266	110	64	28
Laser Printers	1,970	872	425	300	233	82	44	15
Inkjet Printers	1,420	400	342	275	239	94	48	23
FAX Machines	2,715	1,008	623	466	374	139	75	29
Photocopiers	1,939	575	447	344	332	138	74	29
Number of Computers								
None	1,565	1,382	115	55	Q	Q	Q	N
1 to 4	1,670	1,116	338	160	48	Q	Q	N
5 to 9	559	112	245	131	65	5	Q	Q
10 to 19	370	30	67	165	83	22	Q	Q
20 to 49	255	Q	Q	42	145	33	13	Q
50 to 99	110	Q	Q	Q	36	46	14	Q
100 to 249	79	Q	Q	Q	13	25	34	6
250 or More	38	Q	Q	Q	Q	6	9	21
Number of Dedicated Servers								
None	3,471	2,465	522	301	131	37	12	2
1 to 4	1,060	185	256	257	237	84	34	7
5 to 9	58	Q	Q	Q	18	12	15	5
10 to 19	30	Q	N	N	Q	5	9	7
20 to 49	17	N	N	N	Q	Q	5	5
50 or More	10	N	N	N	Q	Q	Q	5
Number of Photocopiers								
None	2,706	2,078	331	218	66	10	Q	Q
One	1,250	515	362	215	124	29	5	Q
2 to 4	549	60	81	122	182	77	24	3
5 to 9	85	Q	Q	Q	24	22	22	6
10 or More	54	N	Q	N	Q	9	23	20
Energy-Related Space Functions (more than one may apply)								
Commercial Food Preparation	799	300	152	134	115	53	31	14
Activities with Large Amounts of Hot Water	567	199	94	90	99	45	28	11
Separate Computer Area	553	73	73	105	143	84	51	25
HVAC Conservation Features (more than one may apply)								
Variable Air-Volume System	466	102	79	84	103	41	36	21
Economizer Cycle	508	127	102	65	98	56	38	22
HVAC Maintenance	2,581	1,086	516	408	335	134	74	29
Energy Management and Control System (EMCS)	252	57	18	34	57	41	29	16

Table B15. Employment Size Category, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)							
		Number of Workers						
	All Buildings*	Fewer than 5 Workers	5 to 9 Workers	10 to 19 Workers	20 to 49 Workers	50 to 99 Workers	100 to 249 Workers	250 or More Workers
All Buildings*	4,645	2,653	778	563	398	147	77	30
Window and Interior Lighting Features (more than one may apply)								
Multipaned Windows	2,201	1,056	398	329	255	96	46	21
Tinted Window Glass	1,323	582	227	207	174	66	44	22
Reflective Window Glass	308	150	44	25	45	23	12	8
External Overhangs or Awnings	1,233	585	251	207	119	42	23	7
Skylights or Atriums	331	118	54	59	48	25	17	9
Daylighting Sensors	74	31	Q	Q	10	7	6	3
Specular Reflectors	928	358	178	121	146	67	38	19
Electronic Ballasts	2,577	1,275	452	355	279	122	65	29
Energy Management and Control System (EMCS) for Lighting	60	Q	Q	Q	14	8	5	6
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]								
Heating	2,878	1,522	533	383	259	109	50	22
Cooling	2,761	1,357	547	396	278	109	50	24
Lighting	3,685	1,935	695	510	344	126	57	19
Office Equipment	1,504	721	333	239	138	46	21	4

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B16. Employment Size Category, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)							
		Number of Workers						
	All Buildings*	Fewer than 5 Workers	5 to 9 Workers	10 to 19 Workers	20 to 49 Workers	50 to 99 Workers	100 to 249 Workers	250 or More Workers
All Buildings*	64,783	15,492	6,166	7,803	10,989	7,934	6,871	9,528
Building Floorspace (Square Feet)								
1,001 to 5,000	6,789	4,659	1,264	689	155	Q	Q	N
5,001 to 10,000	6,585	3,323	1,373	1,109	689	Q	Q	N
10,001 to 25,000	11,535	4,006	2,075	2,456	2,113	692	Q	N
25,001 to 50,000	8,668	1,222	836	1,327	2,920	1,648	667	Q
50,001 to 100,000	9,057	704	291	1,157	2,865	2,151	1,518	371
100,001 to 200,000	9,064	804	Q	Q	1,558	2,014	2,455	1,452
200,001 to 500,000	7,176	Q	Q	Q	533	1,077	1,706	2,571
Over 500,000	5,908	Q	N	N	Q	Q	Q	5,087
Principal Building Activity								
Education	9,874	612	378	740	2,565	2,928	1,995	655
Food Sales	1,255	484	Q	Q	Q	Q	Q	N
Food Service	1,654	336	413	421	367	Q	Q	N
Health Care	3,163	Q	254	Q	335	111	683	1,539
Inpatient	1,905	N	N	Q	Q	Q	379	1,464
Outpatient	1,258	Q	254	Q	312	Q	304	Q
Lodging	5,096	802	437	1,023	1,049	703	562	Q
Retail (Other Than Mall)	4,317	1,235	828	755	440	572	333	Q
Office	12,208	767	964	848	1,755	1,291	1,663	4,920
Public Assembly	3,939	1,381	443	588	836	Q	Q	Q
Public Order and Safety	1,090	145	Q	Q	Q	Q	Q	Q
Religious Worship	3,754	2,117	582	646	246	Q	Q	Q
Service	4,050	1,612	513	747	597	Q	Q	Q
Warehouse and Storage	10,078	3,433	807	1,545	1,843	1,025	585	Q
Other	1,738	159	Q	Q	Q	Q	Q	293
Vacant	2,567	2,359	Q	Q	Q	N	N	N
Year Constructed								
Before 1920	3,769	1,262	524	481	713	400	Q	Q
1920 to 1945	6,871	2,211	608	1,053	909	668	518	903
1946 to 1959	7,045	1,897	634	896	1,536	712	604	767
1960 to 1969	8,101	1,967	642	825	1,408	1,201	1,145	913
1970 to 1979	10,772	2,456	1,016	1,331	1,886	1,092	1,230	1,760
1980 to 1989	10,332	1,625	1,035	889	1,274	1,432	1,403	2,674
1990 to 1999	12,360	2,644	1,206	1,565	2,289	1,557	1,338	1,760
2000 to 2003	5,533	1,431	500	763	973	871	471	524
Census Region								
Northeast	12,905	2,376	1,085	1,872	2,314	1,598	1,331	2,329
Midwest	17,080	4,958	1,463	2,081	2,856	2,311	1,609	1,800
South	23,489	5,670	2,595	2,741	3,883	2,654	2,534	3,413
West	11,310	2,489	1,023	1,109	1,935	1,370	1,397	1,986
Climate Zone: 30-Year Average								
Under 2,000 CDD and --								
More than 7,000 HDD	10,622	2,699	1,035	1,374	2,014	1,673	996	832
5,500-7,000 HDD	17,335	4,857	1,529	2,155	2,709	2,166	1,561	2,357
4,000-5,499 HDD	11,504	1,755	1,013	1,359	2,132	1,316	1,434	2,495
Fewer than 4,000 HDD	15,739	4,076	1,646	1,599	2,498	1,812	2,109	1,999
2,000 CDD or More and --								
Fewer than 4,000 HDD	9,584	2,106	944	1,317	1,635	966	771	1,845

Table B16. Employment Size Category, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)							
		Number of Workers						
	All Buildings*	Fewer than 5 Workers	5 to 9 Workers	10 to 19 Workers	20 to 49 Workers	50 to 99 Workers	100 to 249 Workers	250 or More Workers
All Buildings*	64,783	15,492	6,166	7,803	10,989	7,934	6,871	9,528
Number of Floors								
One	25,981	9,898	3,480	3,538	4,535	2,649	1,250	630
Two	16,270	3,706	1,627	2,277	3,664	2,254	1,774	968
Three	7,501	1,282	637	942	1,325	1,321	1,341	653
Four to Nine	10,085	605	404	1,040	1,249	1,470	2,134	3,182
Ten or More	4,947	N	Q	Q	Q	Q	372	4,095
Elevators and Escalators (more than one may apply)								
Any Elevators	24,617	1,200	621	1,836	3,055	4,168	5,060	8,677
Number of Elevators								
One	8,221	649	499	1,114	1,660	2,072	1,782	445
Two to Five	10,129	Q	Q	Q	1,285	1,983	2,798	2,709
Six or More	6,268	Q	N	N	Q	Q	480	5,523
Any Escalators	2,350	Q	Q	N	Q	Q	Q	1,973
Weekly Operating Hours								
Fewer than 40	6,863	5,562	484	284	243	Q	Q	Q
40 to 48	11,622	2,700	1,610	1,668	2,458	1,358	1,050	777
49 to 60	15,723	3,057	1,831	2,177	2,633	2,314	1,478	2,233
61 to 84	10,334	1,475	1,043	1,516	2,179	1,439	1,315	1,366
85 to 167	7,092	823	508	974	1,599	1,288	1,045	855
Open Continuously	13,149	1,874	690	1,184	1,876	1,346	1,918	4,260
Ownership and Occupancy								
Nongovernment Owned	49,421	13,316	5,386	6,790	7,940	4,556	4,139	7,293
Owner Occupied	23,591	5,546	2,802	3,668	3,499	2,138	2,262	3,677
Nonowner Occupied	23,914	5,854	2,585	3,123	4,441	2,417	1,877	3,617
Unoccupied	1,916	1,916	N	N	N	N	N	N
Government Owned	15,363	2,176	780	1,013	3,049	3,378	2,732	2,235
Federal	1,956	Q	Q	Q	Q	Q	Q	761
State	3,808	456	Q	277	916	803	681	493
Local	9,599	1,128	495	678	2,022	2,340	1,956	981
Vacancy Status								
Completely Vacant	2,161	2,161	N	N	N	N	N	N
Mostly Vacant	406	Q	Q	Q	Q	N	N	N
Partially Vacant	12,382	1,926	663	910	1,415	1,726	1,572	4,171
Not At All Vacant	49,834	11,207	5,413	6,841	9,509	6,208	5,299	5,357
Number of Establishments								
One	45,144	11,824	4,924	6,115	7,967	5,487	4,368	4,458
2 to 5	10,960	1,399	1,183	1,584	2,369	1,487	1,451	1,486
6 to 10	1,958	Q	Q	Q	476	375	340	565
11 to 20	1,951	Q	Q	N	Q	511	420	853
More than 20	2,609	Q	N	Q	Q	Q	293	2,165
Currently Unoccupied	2,161	2,161	N	N	N	N	N	N

Table B16. Employment Size Category, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)							
		Number of Workers						
	All Buildings*	Fewer than 5 Workers	5 to 9 Workers	10 to 19 Workers	20 to 49 Workers	50 to 99 Workers	100 to 249 Workers	250 or More Workers
All Buildings*	64,783	15,492	6,166	7,803	10,989	7,934	6,871	9,528
Energy Sources (more than one may apply)								
Electricity	63,307	14,061	6,147	7,803	10,962	7,934	6,871	9,528
Natural Gas	43,468	7,023	4,084	5,317	8,212	6,156	5,127	7,549
Fuel Oil	15,157	1,459	625	1,024	1,602	2,131	2,149	6,168
District Heat	5,443	853	Q	Q	667	474	1,050	2,191
District Chilled Water	2,853	Q	Q	Q	327	505	583	1,219
Propane	7,076	2,092	564	907	907	956	661	989
Other	1,401	307	Q	Q	319	Q	Q	205
Energy End Uses (more than one may apply)								
Buildings with Space Heating	60,028	12,182	5,822	7,410	10,822	7,650	6,766	9,376
Buildings with Cooling	56,940	9,591	5,726	7,304	10,566	7,428	6,806	9,519
Buildings with Water Heating	56,478	9,525	5,393	7,182	10,480	7,688	6,815	9,395
Buildings with Cooking	22,237	1,886	1,172	2,010	3,829	3,699	3,515	6,126
Buildings with Manufacturing	3,138	288	Q	367	762	Q	382	628
Buildings with Electricity Generation	12,821	248	Q	439	1,347	2,103	2,357	6,113
Heating Equipment (more than one may apply)								
Heat Pumps	8,814	1,196	647	932	1,460	1,398	1,513	1,668
Packaged Heat Pumps	5,442	636	443	520	749	938	869	1,286
Split-System Heat Pumps	2,581	530	Q	364	443	Q	Q	587
Individual Room Heat Pumps	2,691	Q	Q	Q	504	643	581	545
Furnaces	19,615	5,347	3,043	3,057	3,814	1,899	1,290	1,165
Individual Space Heaters	12,545	2,782	938	1,542	2,364	1,628	1,300	1,991
District Heat	5,166	Q	Q	Q	653	460	972	2,063
Boilers	20,423	1,986	1,140	1,884	3,588	3,556	3,401	4,869
Packaged Heating Units	18,021	2,269	1,571	2,209	3,526	2,835	2,736	2,874
Other	3,262	544	Q	394	799	372	Q	808
Cooling Equipment (more than one may apply)								
Residential-Type Central Air Conditioners	11,035	2,630	1,461	2,035	2,129	1,097	776	906
Heat Pumps	9,041	1,303	696	862	1,485	1,339	1,427	1,929
Packaged Heat Pumps	5,426	703	492	489	764	887	828	1,264
Split-System Heat Pumps	2,606	570	Q	325	455	Q	Q	600
Individual Room Heat Pumps	2,940	Q	Q	Q	518	613	531	861
Individual Air Conditioners	12,558	2,342	1,144	1,608	2,680	1,710	1,328	1,746
District Chilled Water	2,853	Q	Q	Q	327	505	583	1,219
Central Chillers	11,636	Q	Q	294	1,243	1,736	2,436	5,590
Packaged Air Conditioning Units	29,969	3,964	3,025	4,059	5,941	4,517	3,939	4,524
Swamp Coolers	1,561	349	Q	Q	410	Q	Q	Q
Other	1,232	Q	Q	Q	Q	Q	Q	250
Main Equipment Replaced Since 1990 (more than one may apply)								
Heating	16,403	3,368	1,920	2,360	3,283	2,172	1,836	1,463
Cooling	20,995	3,688	2,054	2,753	4,139	2,518	2,487	3,357

Table B16. Employment Size Category, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)							
		Number of Workers						
	All Buildings*	Fewer than 5 Workers	5 to 9 Workers	10 to 19 Workers	20 to 49 Workers	50 to 99 Workers	100 to 249 Workers	250 or More Workers
All Buildings*	64,783	15,492	6,166	7,803	10,989	7,934	6,871	9,528
Office Equipment (more than one may apply)								
Computers	55,627	7,716	5,515	7,456	10,870	7,828	6,714	9,528
With Flat Screen Monitors	26,417	1,269	1,537	2,418	4,134	4,283	4,356	8,420
Dedicated Servers	36,338	1,248	2,266	4,233	7,252	6,453	5,853	9,033
Laser Printers	33,012	5,130	3,660	4,409	6,785	4,689	3,717	4,623
Inkjet Printers	32,210	2,375	2,610	4,002	6,375	4,824	4,484	7,540
FAX Machines	52,373	5,814	5,103	6,958	10,372	7,798	6,825	9,503
Photocopiers	46,257	3,884	3,761	5,560	9,770	7,382	6,620	9,279
Number of Computers								
None	9,156	7,777	651	347	Q	Q	Q	N
1 to 4	12,395	6,537	2,654	1,910	991	Q	Q	N
5 to 9	7,179	690	2,164	2,062	1,583	514	Q	Q
10 to 19	6,610	242	445	2,336	2,436	888	Q	Q
20 to 49	7,414	Q	Q	607	3,697	1,832	755	Q
50 to 99	5,376	Q	Q	Q	1,352	1,869	1,261	Q
100 to 249	6,690	Q	Q	Q	682	1,846	2,856	1,164
250 or More	9,963	Q	Q	Q	Q	751	1,367	7,626
Number of Dedicated Servers								
None	28,445	14,244	3,900	3,570	3,737	1,481	1,018	495
1 to 4	24,116	1,238	2,263	4,108	6,522	4,846	3,438	1,700
5 to 9	3,864	Q	Q	Q	472	874	1,010	1,376
10 to 19	3,027	Q	N	N	Q	306	879	1,678
20 to 49	2,583	N	N	N	Q	Q	420	1,749
50 or More	2,748	N	N	N	Q	Q	Q	2,530
Number of Photocopiers								
None	18,526	11,608	2,405	2,243	1,218	552	Q	Q
One	15,475	3,378	2,948	3,434	3,699	1,369	503	Q
2 to 4	15,082	488	786	1,736	5,046	4,260	2,055	710
5 to 9	5,515	Q	Q	Q	913	1,258	1,987	932
10 or More	10,185	N	Q	N	Q	496	2,075	7,492
Energy-Related Space Functions (more than one may apply)								
Commercial Food Preparation	22,223	1,872	1,172	2,010	3,829	3,699	3,515	6,126
Activities with Large Amounts of Hot Water	19,482	1,842	1,062	2,031	3,540	2,931	3,190	4,886
Separate Computer Area	26,873	532	645	2,213	4,533	5,114	5,119	8,716
HVAC Conservation Features (more than one may apply)								
Variable Air-Volume System	19,597	1,043	626	1,349	2,953	3,058	3,547	7,021
Economizer Cycle	21,108	969	962	996	3,277	3,680	4,151	7,073
HVAC Maintenance	51,163	7,480	4,189	6,214	9,677	7,478	6,693	9,431
Energy Management and Control System (EMCS)	15,630	507	302	517	2,250	3,050	3,262	5,742

Table B16. Employment Size Category, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)							
		Number of Workers						
	All Buildings*	Fewer than 5 Workers	5 to 9 Workers	10 to 19 Workers	20 to 49 Workers	50 to 99 Workers	100 to 249 Workers	250 or More Workers
All Buildings*	64,783	15,492	6,166	7,803	10,989	7,934	6,871	9,528
Window and Interior Lighting Features (more than one may apply)								
Multipaned Windows	38,910	6,336	3,351	4,917	7,333	5,550	4,574	6,850
Tinted Window Glass	29,887	4,604	2,150	2,788	4,692	3,975	4,226	7,452
Reflective Window Glass	8,544	986	229	449	1,213	1,473	1,093	3,100
External Overhangs or Awnings	17,242	3,002	1,845	2,924	2,769	2,282	2,055	2,365
Skylights or Atriums	12,546	834	665	1,580	1,868	2,023	1,990	3,587
Daylighting Sensors	2,868	211	Q	Q	375	432	428	1,183
Specular Reflectors	26,118	2,554	1,623	2,483	4,410	4,039	3,980	7,028
Electronic Ballasts	46,882	7,653	3,942	5,454	7,894	6,744	5,977	9,218
Energy Management and Control System (EMCS) For Lighting	4,781	Q	Q	Q	603	700	735	2,538
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]								
Heating	42,722	8,305	4,310	5,290	7,271	5,757	4,648	7,139
Cooling	43,205	7,318	4,490	5,546	7,520	5,893	4,765	7,672
Lighting	46,987	10,224	5,264	6,412	8,751	6,393	4,854	5,089
Office Equipment	19,397	4,417	2,678	3,104	3,847	2,324	1,923	1,104

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B17. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
		Nongovernment-Owned Buildings				Government-Owned Buildings			
	All Buildings*	Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	4,645	4,011	1,841	2,029	141	635	46	164	425
Building Floorspace (Square Feet)									
1,001 to 5,000	2,552	2,272	980	1,205	87	280	Q	77	183
5,001 to 10,000	889	783	384	375	Q	106	Q	Q	87
10,001 to 25,000	738	625	320	293	Q	113	Q	40	64
25,001 to 50,000	241	185	91	86	Q	56	Q	16	36
50,001 to 100,000	129	82	35	40	Q	47	Q	9	37
100,001 to 200,000	65	43	21	20	Q	22	Q	8	12
200,001 to 500,000	25	16	7	8	Q	9	2	1	5
Over 500,000	7	5	2	3	N	2	1	Q	Q
Principal Building Activity									
Education	386	141	83	58	N	245	Q	59	175
Food Sales	226	224	94	130	N	Q	N	Q	Q
Food Service	297	283	72	211	N	Q	N	Q	Q
Health Care	129	122	68	54	N	7	Q	Q	Q
Inpatient	8	7	4	3	N	1	Q	Q	Q
Outpatient	121	115	64	51	N	Q	Q	Q	Q
Lodging	142	134	48	86	N	9	Q	Q	Q
Retail (Other Than Mall)	443	441	189	252	N	Q	Q	N	N
Office	824	742	402	339	N	82	7	28	47
Public Assembly	277	182	114	68	N	94	Q	23	67
Public Order and Safety	71	Q	Q	Q	N	47	Q	Q	42
Religious Worship	370	370	247	124	N	N	N	N	N
Service	622	542	285	257	N	80	12	Q	42
Warehouse and Storage	597	571	175	396	N	26	Q	Q	Q
Other	79	70	38	32	N	Q	Q	Q	Q
Vacant	182	166	Q	Q	141	Q	Q	Q	Q
Year Constructed									
Before 1920	330	304	168	125	Q	25	Q	Q	19
1920 to 1945	527	461	222	206	Q	67	8	15	44
1946 to 1959	562	463	213	227	Q	99	Q	22	74
1960 to 1969	579	482	242	224	Q	97	Q	28	56
1970 to 1979	731	638	286	334	Q	92	Q	25	60
1980 to 1989	707	624	273	326	Q	83	Q	24	55
1990 to 1999	876	759	327	423	Q	117	Q	30	84
2000 to 2003	334	280	110	163	Q	55	Q	Q	33
Census Region									
Northeast	726	642	365	261	Q	84	Q	25	51
Midwest	1,266	1,118	557	518	43	149	11	24	114
South	1,775	1,563	598	888	77	212	6	50	156
West	878	689	321	362	Q	190	Q	66	103
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	855	762	374	361	Q	93	Q	27	56
5,500-7,000 HDD	1,173	973	546	399	27	200	27	36	137
4,000-5,499 HDD	673	608	276	318	Q	65	1	Q	42
Fewer than 4,000 HDD	1,276	1,103	440	621	42	173	Q	64	105
2,000 CDD or More and --									
Fewer than 4,000 HDD	669	565	204	330	Q	104	Q	Q	85

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Table B17. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
		Nongovernment-Owned Buildings				Government-Owned Buildings			
	All Buildings*	Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	4,645	4,011	1,841	2,029	141	635	46	164	425
Number of Floors									
One	3,136	2,675	1,119	1,454	102	461	35	114	312
Two	1,031	921	478	414	29	110	Q	28	79
Three	339	303	175	120	Q	37	Q	9	22
Four to Nine	128	102	65	36	Q	26	2	13	11
Ten or More	12	10	4	6	N	2	0	Q	Q
Elevators and Escalators (more than one may apply)									
Any Elevators	309	231	121	102	Q	78	6	27	45
Number of Elevators									
One	208	154	87	60	Q	54	Q	15	35
Two to Five	88	67	28	37	Q	21	1	11	9
Six or More	13	10	6	4	Q	3	1	1	1
Any Escalators	6	5	3	2	Q	1	Q	Q	Q
Number of Workers (main shift)									
Fewer than 5	2,653	2,347	989	1,217	141	306	Q	72	211
5 to 9	778	701	376	325	N	78	Q	Q	52
10 to 19	563	488	238	250	N	75	Q	26	43
20 to 49	398	303	156	147	N	94	Q	26	64
50 to 99	147	97	42	55	N	50	Q	12	34
100 to 249	77	53	30	23	N	24	Q	6	16
250 or More	30	22	9	13	N	8	1	Q	4
Weekly Operating Hours									
Fewer than 40	1,002	854	356	357	141	148	Q	Q	107
40 to 48	1,117	897	494	403	N	220	Q	58	150
49 to 60	1,062	932	469	463	N	129	6	35	88
61 to 84	591	532	213	319	N	59	Q	14	34
85 to 167	400	374	158	216	N	25	Q	11	9
Open Continuously	475	422	151	271	N	53	4	12	37
Vacancy Status									
Completely Vacant	157	141	N	N	141	Q	Q	Q	Q
Mostly Vacant	25	25	Q	Q	N	Q	N	N	Q
Partially Vacant	548	477	176	301	N	71	Q	12	50
Not At All Vacant	3,915	3,368	1,654	1,714	N	547	37	151	360
Number of Establishments									
One	3,754	3,200	1,460	1,740	N	553	41	147	366
2 to 5	643	584	342	242	N	59	Q	13	41
6 to 10	55	50	23	27	N	5	Q	Q	Q
11 to 20	23	22	10	12	N	Q	Q	Q	Q
More than 20	14	13	5	8	N	Q	Q	Q	Q
Currently Unoccupied	157	141	N	N	141	Q	Q	Q	Q

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Table B17. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
		Nongovernment-Owned Buildings				Government-Owned Buildings			
	All Buildings*	Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	4,645	4,011	1,841	2,029	141	635	46	164	425
Multibuilding Facility									
Not Part of a Multibuilding Facility	3,169	2,949	1,395	1,448	106	219	12	38	170
College or University	83	32	21	11	N	51	N	43	Q
Primary or Secondary School	254	34	Q	20	N	221	Q	41	164
Office Complex	111	105	40	62	Q	Q	Q	Q	Q
Retail Complex	151	150	55	88	Q	Q	N	Q	N
Religious Campus or Complex	195	195	136	57	Q	N	N	N	N
Health Care Complex	39	30	14	16	N	Q	Q	Q	Q
Lodging or Resort Complex	61	59	15	40	Q	Q	Q	N	Q
Government Complex	87	Q	N	Q	N	84	15	Q	50
Other	496	456	152	284	Q	40	Q	Q	27
Predominant Exterior Wall Material									
Brick, Stone or Stucco	2,044	1,738	822	851	64	306	21	84	202
Concrete (Block or Poured)	786	682	326	322	35	104	5	12	87
Concrete Panels	131	113	35	73	Q	18	Q	8	10
Siding or Shingles	779	669	323	329	Q	110	Q	Q	66
Metal Panels	825	731	299	413	Q	93	Q	Q	57
Window Glass	17	16	2	14	Q	Q	Q	Q	Q
Other	47	45	27	18	Q	Q	Q	Q	Q
No One Major Type	18	Q	Q	Q	Q	Q	N	Q	Q
Predominant Roof Material									
Built-Up	1,036	848	344	460	44	188	8	51	129
Shingles (Not Wood)	1,325	1,159	592	536	Q	166	Q	46	113
Metal Surfacing	1,288	1,140	499	603	Q	148	Q	34	96
Synthetic or Rubber	511	431	208	208	Q	80	7	15	58
Slate or Tile	263	232	105	119	Q	31	Q	Q	Q
Wooden Materials	122	114	44	66	Q	Q	Q	Q	Q
Concrete	61	53	30	23	N	Q	Q	Q	Q
Other	16	12	Q	Q	Q	Q	Q	Q	Q
No One Major Type	25	23	Q	Q	N	Q	Q	N	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	1,018	871	484	368	Q	147	7	28	112
Addition or Annex	256	212	132	80	Q	44	Q	7	37
Reduction In Floorspace	22	18	12	Q	N	Q	Q	Q	Q
Cosmetic Improvements	741	648	367	268	Q	93	3	18	73
Wall or Roof Replacement	370	305	176	124	Q	65	Q	10	51
Interior Wall Re-Configuration	411	350	204	140	Q	60	3	11	46
HVAC Equipment Upgrade	442	360	222	135	Q	82	4	12	66
Lighting Upgrade	455	369	213	150	Q	85	4	16	66
Window Replacement	310	261	169	84	Q	50	Q	6	42
Plumbing System Upgrade	315	257	156	93	Q	58	3	11	44
Insulation Upgrade	227	197	117	74	Q	31	Q	Q	25
Other Renovation	19	18	13	Q	N	Q	Q	Q	Q
No Renovations Since 1980	1,710	1,477	647	748	82	233	27	66	140
Building Newer than 1980	1,917	1,663	710	913	40	254	12	71	172

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Table B17. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
		Nongovernment-Owned Buildings				Government-Owned Buildings			
	All Buildings*	Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	4,645	4,011	1,841	2,029	141	635	46	164	425
Energy Sources (more than one may apply)									
Electricity	4,404	3,783	1,817	1,885	81	620	46	163	411
Natural Gas	2,391	2,078	1,044	997	36	313	23	72	218
Fuel Oil	451	371	209	161	Q	80	4	24	52
District Heat	67	25	16	8	Q	42	4	27	11
District Chilled Water	33	13	9	4	Q	19	0	12	7
Propane	502	425	225	194	Q	77	Q	Q	53
Other	132	122	75	46	Q	10	Q	Q	Q
Space-Heating Energy Sources (more than one may apply)									
Electricity	1,766	1,519	714	781	24	246	14	55	177
Natural Gas	2,165	1,879	975	872	31	287	21	65	201
Fuel Oil	360	309	183	126	N	51	Q	15	32
District Heat	65	23	16	7	Q	42	4	27	11
Propane	372	317	167	146	Q	55	Q	Q	38
Other	113	107	67	40	Q	Q	Q	Q	Q
Primary Space-Heating Energy Source									
Electricity	1,258	1,093	490	581	Q	165	Q	40	117
Natural Gas	1,999	1,727	888	808	31	272	21	59	192
Fuel Oil	282	239	143	96	N	43	Q	Q	26
District Heat	63	22	16	7	Q	41	4	26	11
Propane	308	260	122	134	Q	47	Q	Q	33
Other	72	71	42	Q	N	Q	N	N	Q
Cooling Energy Sources (more than one may apply)									
Electricity	3,589	3,097	1,546	1,511	39	493	35	125	333
Natural Gas	17	12	7	4	N	Q	Q	Q	Q
District Chilled Water	33	13	9	4	Q	19	0	12	7
Water-Heating Energy Sources (more than one may apply)									
Electricity	1,910	1,657	847	796	Q	253	20	61	172
Natural Gas	1,445	1,248	618	611	Q	197	12	41	144
Fuel Oil	94	72	46	25	N	23	Q	Q	13
District Heat	27	11	8	Q	N	17	1	15	Q
Propane	128	107	49	58	N	21	Q	Q	17
Cooking Energy Sources (more than one may apply)									
Electricity	410	329	151	178	Q	81	Q	9	69
Natural Gas	457	389	170	217	Q	68	1	9	57
Propane	108	91	52	38	Q	16	Q	Q	13

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Table B17. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
		Nongovernment-Owned Buildings				Government-Owned Buildings			
	All Buildings*	Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	4,645	4,011	1,841	2,029	141	635	46	164	425
Energy End Uses (more than one may apply)									
Buildings with Space Heating	3,982	3,413	1,700	1,655	58	569	40	151	378
Buildings with Cooling	3,625	3,112	1,556	1,516	39	513	35	139	340
Buildings with Water Heating	3,472	2,994	1,507	1,453	34	479	33	119	327
Buildings with Cooking	801	670	319	348	Q	131	Q	18	109
Buildings with Manufacturing	119	118	70	47	N	Q	Q	Q	Q
Buildings with Electricity Generation	149	97	53	44	Q	52	Q	13	38
Percent of Floorspace Heated									
Not Heated	663	598	140	374	83	66	Q	Q	46
1 to 50	523	478	221	245	Q	45	Q	Q	31
51 to 99	498	421	194	218	Q	77	5	13	59
100	2,962	2,515	1,285	1,192	37	447	32	126	289
Percent of Floorspace Cooled									
Not Cooled	1,020	899	284	513	102	121	Q	26	85
1 to 50	985	865	456	394	Q	120	Q	38	72
51 to 99	629	534	274	257	Q	95	6	17	72
100	2,011	1,713	826	866	Q	299	20	84	195
Percent Lit When Open									
Zero	47	45	Q	Q	N	Q	N	Q	Q
1 to 50	929	831	453	378	N	98	Q	26	64
51 to 99	1,108	939	477	463	N	168	17	36	115
100	2,176	1,839	863	977	N	337	21	98	218
Building Never Open/ Electricity Not Used	386	356	38	177	141	30	Q	Q	Q
Percent Lit When Closed									
Zero	1,964	1,660	805	796	58	304	Q	83	200
1 to 50	1,882	1,633	806	807	20	249	20	67	162
51 to 100	136	122	55	63	Q	15	Q	Q	Q
Building Never Closed/ Electricity Not Used	664	596	174	362	60	67	4	12	51
Heating Equipment (more than one may apply)									
Heat Pumps	476	401	226	170	Q	74	2	22	50
Packaged Heat Pumps	278	239	132	101	Q	39	Q	Q	26
Split-System Heat Pumps	166	152	91	61	N	14	Q	Q	Q
Individual Room Heat Pumps	58	32	14	18	N	25	Q	Q	23
Furnaces	1,864	1,664	863	772	Q	200	Q	48	144
Individual Space Heaters	819	700	329	358	Q	119	12	19	88
District Heat	65	23	16	7	Q	42	4	26	11
Boilers	579	448	254	191	Q	131	14	31	87
Packaged Heating Units	953	813	375	426	Q	140	6	27	107
Other	205	182	85	93	Q	23	Q	Q	15

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Table B17. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
		Nongovernment-Owned Buildings				Government-Owned Buildings			
	All Buildings*	Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	4,645	4,011	1,841	2,029	141	635	46	164	425
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	1,006	915	463	444	Q	92	2	19	71
Heat Pumps	492	413	228	177	Q	79	Q	22	52
Packaged Heat Pumps	288	247	133	106	Q	41	Q	Q	25
Split-System Heat Pumps	174	157	93	64	N	17	Q	Q	Q
Individual Room Heat Pumps	58	33	14	19	N	25	Q	Q	23
Individual Air Conditioners	742	607	299	298	Q	135	Q	38	87
District Chilled Water	33	13	9	4	Q	19	0	12	7
Central Chillers	111	51	27	23	Q	60	4	21	35
Packaged Air Conditioning Units	1,613	1,403	689	702	Q	210	14	42	154
Swamp Coolers	122	98	51	47	Q	24	Q	Q	Q
Other	40	33	17	16	N	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	1,197	1,047	537	487	Q	150	7	42	101
Cooling	1,356	1,187	617	557	Q	170	15	44	111
Water Heating Equipment									
Centralized System	2,513	2,182	1,110	1,043	Q	331	27	80	224
Distributed System	785	681	325	352	Q	104	Q	28	72
Combination of Centralized and Distributed System	175	131	72	59	Q	43	2	11	31
Lighting Equipment Types (more than one may apply)									
Incandescent	2,184	1,913	973	928	Q	271	20	64	187
Standard Fluorescent	3,943	3,369	1,680	1,673	16	575	43	156	376
Compact Fluorescent	941	785	399	385	Q	156	11	49	97
High Intensity Discharge	455	348	177	166	Q	107	9	31	67
Halogen	565	503	251	247	Q	62	6	15	41
Other	8	Q	Q	Q	N	Q	N	Q	Q
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	3,176	2,763	1,403	1,342	Q	413	23	110	280
Commercial Refrigeration	1,007	872	383	486	Q	135	Q	19	111
Walk-In Units	666	576	230	345	Q	90	2	12	75
Cases or Cabinets	825	729	317	410	Q	95	Q	15	77
Residential-Type Units	2,370	2,049	1,108	927	Q	321	19	85	216
Vending Machines	996	779	392	385	Q	217	15	62	140
No Refrigeration	1,469	1,248	437	687	123	221	Q	55	144

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Table B17. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
		Nongovernment-Owned Buildings				Government-Owned Buildings			
	All Buildings*	Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	4,645	4,011	1,841	2,029	141	635	46	164	425
Office Equipment (more than one may apply)									
Computers	3,081	2,576	1,350	1,218	Q	505	28	144	333
With Flat Screen Monitors	877	717	381	336	N	159	12	52	95
Dedicated Servers	1,175	967	516	450	Q	208	16	46	146
Laser Printers	1,970	1,642	892	745	Q	328	13	84	232
Inkjet Printers	1,420	1,190	605	582	Q	230	19	67	144
FAX Machines	2,715	2,373	1,210	1,154	Q	341	20	98	224
Photocopiers	1,939	1,638	949	682	Q	301	20	88	193
Number of Computers									
None	1,565	1,435	491	811	133	130	Q	Q	92
1 to 4	1,670	1,491	748	735	Q	179	Q	54	120
5 to 9	559	491	268	223	N	68	Q	19	38
10 to 19	370	297	176	121	Q	73	Q	Q	47
20 to 49	255	181	104	76	N	74	Q	23	49
50 to 99	110	60	30	31	N	50	Q	13	36
100 to 249	79	35	15	20	N	44	Q	10	33
250 or More	38	21	9	11	N	17	1	6	10
Number of Dedicated Servers									
None	3,471	3,044	1,325	1,579	141	426	29	118	279
1 to 4	1,060	878	468	409	Q	182	13	36	133
5 to 9	58	45	26	18	N	13	Q	Q	9
10 to 19	30	23	11	12	N	7	1	4	Q
20 to 49	17	12	4	8	N	5	Q	Q	Q
50 or More	10	9	6	3	N	1	Q	Q	Q
Number of Photocopiers									
None	2,706	2,373	891	1,347	134	334	25	77	232
One	1,250	1,109	641	460	Q	142	Q	51	79
2 to 4	549	432	253	179	N	117	Q	26	85
5 to 9	85	57	35	22	N	28	Q	8	19
10 or More	54	40	20	21	N	14	1	3	10
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	799	668	319	348	Q	131	Q	18	109
Activities with Large Amounts of Hot Water	567	452	211	239	Q	115	Q	31	80
Separate Computer Area	553	353	186	167	Q	200	8	47	146
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	466	351	185	164	Q	115	3	35	77
Economizer Cycle	508	366	187	175	Q	143	6	46	91
HVAC Maintenance	2,581	2,119	1,084	1,018	16	462	32	129	302
Energy Management and Control System (EMCS)	252	124	64	57	Q	128	4	31	94

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Table B17. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
		Nongovernment-Owned Buildings				Government-Owned Buildings			
	All Buildings*	Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	4,645	4,011	1,841	2,029	141	635	46	164	425
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	2,201	1,874	993	845	35	327	20	83	224
Tinted Window Glass	1,323	1,120	556	543	20	204	13	56	135
Reflective Window Glass	308	277	132	140	Q	31	Q	8	19
External Overhangs or Awnings	1,233	1,101	540	537	Q	132	10	26	96
Skylights or Atriums	331	276	143	128	Q	54	4	15	35
Daylighting Sensors	74	62	33	27	Q	12	Q	Q	8
Specular Reflectors	928	752	389	358	Q	175	15	45	115
Electronic Ballasts	2,577	2,149	1,052	1,090	Q	428	25	111	292
Energy Management and Control System (EMCS) for Lighting	60	39	18	21	N	21	Q	Q	17
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	2,878	2,463	1,280	1,143	40	415	24	104	287
Cooling	2,761	2,361	1,225	1,109	Q	401	28	104	269
Lighting	3,685	3,153	1,590	1,563	N	533	40	146	346
Office Equipment	1504	1230	687	539	Q	273	10	76	187

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B18. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
		Nongovernment-Owned Buildings				Government-Owned Buildings			
	All Buildings*	Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	64,783	49,421	23,591	23,914	1,916	15,363	1,956	3,808	9,599
Building Floorspace (Square Feet)									
1,001 to 5,000	6,789	6,043	2,682	3,162	199	746	Q	206	498
5,001 to 10,000	6,585	5,827	2,858	2,791	Q	758	Q	Q	620
10,001 to 25,000	11,535	9,738	5,028	4,530	Q	1,797	Q	604	1,044
25,001 to 50,000	8,668	6,659	3,197	3,141	Q	2,009	Q	531	1,327
50,001 to 100,000	9,057	5,779	2,464	2,951	Q	3,278	Q	620	2,557
100,001 to 200,000	9,064	5,958	2,919	2,714	Q	3,106	Q	1,142	1,644
200,001 to 500,000	7,176	4,803	2,048	2,408	Q	2,373	545	408	1,420
Over 500,000	5,908	4,613	2,396	2,217	N	1,295	606	Q	Q
Principal Building Activity									
Education	9,874	2,070	1,232	839	N	7,804	Q	1,671	6,067
Food Sales	1,255	1,243	541	702	N	Q	N	Q	Q
Food Service	1,654	1,547	489	1,058	N	Q	N	Q	Q
Health Care	3,163	2,662	1,611	1,051	N	501	121	Q	168
Inpatient	1,905	1,557	911	646	N	348	Q	Q	Q
Outpatient	1,258	1,105	700	405	N	Q	Q	Q	Q
Lodging	5,096	4,734	1,624	3,110	N	363	Q	Q	Q
Retail (Other Than Mall)	4,317	4,312	2,020	2,292	N	Q	Q	N	N
Office	12,208	10,515	5,571	4,944	N	1,693	482	531	680
Public Assembly	3,939	2,189	1,204	984	N	1,751	Q	726	977
Public Order and Safety	1,090	Q	Q	Q	N	967	Q	Q	853
Religious Worship	3,754	3,754	2,804	950	N	N	N	N	N
Service	4,050	3,018	1,680	1,338	N	1,032	533	Q	293
Warehouse and Storage	10,078	9,371	3,736	5,635	N	Q	Q	Q	Q
Other	1,738	1,574	774	800	N	164	Q	Q	Q
Vacant	2,567	2,310	Q	Q	1,916	Q	Q	Q	Q
Year Constructed									
Before 1920	3,769	3,119	1,716	1,357	Q	650	Q	Q	440
1920 to 1945	6,871	4,879	2,883	1,597	Q	1,992	Q	282	1,020
1946 to 1959	7,045	4,994	2,514	2,252	Q	2,050	Q	377	1,551
1960 to 1969	8,101	5,660	2,917	2,452	Q	2,441	333	819	1,289
1970 to 1979	10,772	8,167	3,410	4,315	Q	2,605	Q	738	1,572
1980 to 1989	10,332	8,564	4,095	4,336	Q	1,768	Q	566	1,094
1990 to 1999	12,360	9,529	4,039	5,289	Q	2,830	Q	713	1,758
2000 to 2003	5,533	4,508	2,016	2,315	Q	1,025	Q	Q	874
Census Region									
Northeast	12,905	10,389	5,904	4,204	Q	2,517	Q	599	1,706
Midwest	17,080	12,470	6,171	5,539	760	4,610	Q	764	2,925
South	23,489	17,826	7,869	9,358	600	5,662	521	1,718	3,423
West	11,310	8,736	3,648	4,813	Q	2,574	Q	727	1,545
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	10,622	8,063	3,894	3,972	Q	2,558	167	696	1,695
5,500-7,000 HDD	17,335	12,350	6,510	5,030	810	4,985	1,135	709	3,141
4,000-5,499 HDD	11,504	9,204	4,791	4,244	Q	2,300	Q	692	1,182
Fewer than 4,000 HDD	15,739	12,409	5,496	6,439	473	3,330	144	1,247	1,939
2,000 CDD or More and --									
Fewer than 4,000 HDD	9,584	7,396	2,899	4,228	Q	2,189	Q	Q	1,642

Table B18. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
		Nongovernment-Owned Buildings				Government-Owned Buildings			
	All Buildings*	Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	64,783	49,421	23,591	23,914	1,916	15,363	1,956	3,808	9,599
Number of Floors									
One	25,981	20,203	8,613	10,719	870	5,779	902	917	3,959
Two	16,270	12,450	5,914	5,901	636	3,819	Q	842	2,834
Three	7,501	5,694	3,061	2,402	Q	1,807	Q	349	1,332
Four to Nine	10,085	6,678	3,822	2,677	Q	3,406	650	1,531	1,226
Ten or More	4,947	4,396	2,181	2,215	N	551	136	Q	Q
Elevators and Escalators (more than one may apply)									
Any Elevators	24,617	17,048	8,806	7,777	Q	7,569	1,012	2,382	4,174
Number of Elevators									
One	8,221	4,926	2,507	2,181	Q	3,295	Q	774	2,292
Two to Five	10,129	7,177	3,670	3,307	Q	2,952	186	1,346	1,420
Six or More	6,268	4,945	2,629	2,289	Q	1,323	598	263	462
Any Escalators	2,350	1,839	1,001	832	Q	511	Q	Q	Q
Number of Workers (main shift)									
Fewer than 5	15,492	13,316	5,546	5,854	1,916	2,176	Q	456	1,128
5 to 9	6,166	5,386	2,802	2,585	N	780	Q	Q	495
10 to 19	7,803	6,790	3,668	3,123	N	1,013	Q	277	678
20 to 49	10,989	7,940	3,499	4,441	N	3,049	Q	916	2,022
50 to 99	7,934	4,556	2,138	2,417	N	3,378	Q	803	2,340
100 to 249	6,871	4,139	2,262	1,877	N	2,732	Q	681	1,956
250 or More	9,528	7,293	3,677	3,617	N	2,235	761	493	981
Weekly Operating Hours									
Fewer than 40	6,863	5,716	2,009	1,791	1,916	1,147	Q	Q	903
40 to 48	11,622	7,898	4,166	3,732	N	3,724	Q	667	2,980
49 to 60	15,723	11,414	5,978	5,435	N	4,310	Q	763	2,613
61 to 84	10,334	7,997	3,722	4,275	N	2,337	208	760	1,369
85 to 167	7,092	5,305	2,582	2,724	N	1,786	Q	883	830
Open Continuously	13,149	11,090	5,134	5,956	N	2,059	601	555	903
Vacancy Status									
Completely Vacant	2,161	1,916	N	N	1,916	Q	Q	Q	Q
Mostly Vacant	406	394	Q	Q	N	Q	N	N	Q
Partially Vacant	12,382	10,331	4,935	5,395	N	2,051	352	297	1,403
Not At All Vacant	49,834	36,780	18,429	18,350	N	13,054	1,560	3,478	8,016
Number of Establishments									
One	45,144	32,808	15,690	17,118	N	12,336	1,683	2,633	8,020
2 to 5	10,960	8,830	4,948	3,882	N	2,130	Q	866	1,177
6 to 10	1,958	1,539	519	1,020	N	419	Q	Q	Q
11 to 20	1,951	1,791	1,149	642	N	Q	Q	Q	Q
More than 20	2,609	2,536	1,285	1,251	N	Q	Q	Q	Q
Currently Unoccupied	2,161	1,916	N	N	1,916	Q	Q	Q	Q

Table B18. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
		Nongovernment-Owned Buildings				Government-Owned Buildings			
	All Buildings*	Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	64,783	49,421	23,591	23,914	1,916	15,363	1,956	3,808	9,599
Multibuilding Facility									
Not Part of a Multibuilding Facility	40,048	33,774	15,943	16,453	1,378	6,275	716	780	4,779
College or University	3,480	1,224	905	318	N	2,256	N	2,169	Q
Primary or Secondary School	3,947	373	Q	243	N	3,574	Q	259	3,132
Office Complex	2,712	2,606	1,034	1,350	Q	Q	Q	Q	Q
Retail Complex	1,238	1,229	548	665	Q	Q	N	Q	N
Religious Campus or Complex	2,347	2,347	1,690	624	Q	N	N	N	N
Health Care Complex	2,303	1,820	1,096	725	N	483	Q	227	153
Lodging or Resort Complex	912	871	156	708	Q	Q	Q	N	Q
Government Complex	2,014	Q	N	Q	N	1,977	Q	Q	928
Other	5,783	5,140	2,088	2,792	Q	642	Q	Q	446
Predominant Exterior Wall Material									
Brick, Stone or Stucco	32,817	22,216	11,555	9,903	758	10,601	1,364	2,631	6,605
Concrete (Block or Poured)	10,832	8,760	3,947	4,341	472	2,073	215	396	1,461
Concrete Panels	6,559	5,559	2,048	3,105	Q	1,000	Q	414	369
Siding or Shingles	4,120	3,587	1,772	1,738	Q	532	Q	Q	396
Metal Panels	7,912	7,291	3,318	3,874	Q	621	Q	Q	384
Window Glass	1,024	858	363	400	Q	Q	Q	Q	Q
Other	1,113	909	499	404	Q	Q	Q	Q	Q
No One Major Type	406	Q	Q	Q	Q	Q	N	Q	Q
Predominant Roof Material									
Built-Up	21,170	14,966	6,276	7,639	1,051	6,205	522	1,610	4,073
Shingles (Not Wood)	10,195	8,595	4,557	3,787	Q	1,599	Q	329	1,141
Metal Surfacing	11,944	10,315	4,947	5,148	Q	1,629	Q	265	1,269
Synthetic or Rubber	14,730	10,271	4,967	4,958	Q	4,458	592	1,254	2,612
Slate or Tile	2,462	1,994	1,029	928	Q	468	Q	Q	Q
Wooden Materials	887	720	294	421	Q	Q	Q	Q	Q
Concrete	2,231	1,578	825	753	N	Q	Q	Q	Q
Other	598	514	Q	Q	Q	Q	Q	Q	Q
No One Major Type	565	467	Q	Q	N	Q	Q	N	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	17,844	12,881	6,930	5,531	Q	4,963	464	1,071	3,428
Addition or Annex	6,551	4,589	2,573	1,905	Q	1,962	Q	411	1,430
Reduction In Floorspace	1,012	829	423	Q	N	Q	Q	Q	Q
Cosmetic Improvements	13,119	9,663	5,136	4,325	Q	3,456	180	787	2,489
Wall or Roof Replacement	8,070	5,614	2,953	2,629	Q	2,457	294	458	1,705
Interior Wall Re-Configuration	8,518	6,238	3,436	2,745	Q	2,280	Q	584	1,472
HVAC Equipment Upgrade	10,768	7,265	4,236	3,027	Q	3,503	305	724	2,474
Lighting Upgrade	10,275	6,981	3,872	3,077	Q	3,294	268	750	2,275
Window Replacement	6,354	4,526	2,644	1,753	Q	1,828	Q	318	1,419
Plumbing System Upgrade	7,144	4,943	2,766	2,142	Q	2,201	Q	503	1,499
Insulation Upgrade	4,015	2,776	1,867	876	Q	1,238	Q	Q	865
Other Renovation	523	427	253	Q	N	Q	Q	Q	Q
No Renovations Since 1980	18,714	13,938	6,511	6,442	985	4,776	1,008	1,324	2,444
Building Newer than 1980	28,225	22,601	10,150	11,940	511	5,624	484	1,413	3,726

Table B18. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
		Nongovernment-Owned Buildings				Government-Owned Buildings			
	All Buildings*	Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	64,783	49,421	23,591	23,914	1,916	15,363	1,956	3,808	9,599
Energy Sources (more than one may apply)									
Electricity	63,307	48,012	23,454	23,258	1,299	15,295	1,951	3,786	9,558
Natural Gas	43,468	33,317	16,548	15,886	883	10,150	1,083	2,438	6,630
Fuel Oil	15,157	11,374	6,092	5,215	Q	3,783	381	962	2,441
District Heat	5,443	2,148	1,421	698	Q	3,295	Q	1,694	653
District Chilled Water	2,853	1,069	711	323	Q	1,785	247	1,051	487
Propane	7,076	5,280	2,481	2,639	Q	1,796	Q	Q	1,030
Other	1,401	1,033	611	396	Q	368	Q	Q	Q
Space-Heating Energy Sources (more than one may apply)									
Electricity	28,600	23,040	10,959	11,681	400	5,560	588	716	4,257
Natural Gas	36,959	28,612	14,264	13,526	821	8,347	782	1,814	5,751
Fuel Oil	5,988	4,378	2,595	1,784	N	1,609	Q	328	1,167
District Heat	5,198	1,984	1,363	591	Q	3,214	Q	1,631	639
Propane	3,204	2,554	1,556	951	Q	649	Q	Q	440
Other	842	718	451	241	Q	Q	Q	Q	Q
Primary Space-Heating Energy Source									
Electricity	15,996	13,204	5,410	7,618	Q	2,793	Q	276	2,444
Natural Gas	32,970	25,322	12,902	11,605	815	7,647	777	1,521	5,350
Fuel Oil	3,818	2,805	1,764	1,041	N	1,013	Q	Q	685
District Heat	4,907	1,860	1,314	517	Q	3,047	Q	1,589	519
Propane	1,955	1,538	747	743	Q	417	Q	Q	301
Other	382	335	228	Q	N	Q	N	N	Q
Cooling Energy Sources (more than one may apply)									
Electricity	54,321	42,323	20,954	20,829	540	11,998	1,163	2,553	8,282
Natural Gas	1,018	678	444	234	N	Q	Q	Q	Q
District Chilled Water	2,853	1,069	711	323	Q	1,785	247	1,051	487
Water-Heating Energy Sources (more than one may apply)									
Electricity	27,490	22,196	11,450	10,431	Q	5,294	465	1,015	3,814
Natural Gas	28,820	21,116	10,036	10,611	Q	7,705	786	1,742	5,177
Fuel Oil	1,880	1,201	880	321	N	679	Q	Q	445
District Heat	3,088	1,495	994	501	N	1,592	Q	1,074	Q
Propane	1,422	965	453	511	N	458	Q	Q	360
Cooking Energy Sources (more than one may apply)									
Electricity	13,161	8,072	4,183	3,884	Q	5,089	Q	622	4,166
Natural Gas	15,438	10,740	5,319	5,381	Q	4,698	502	652	3,544
Propane	1,460	926	472	453	Q	534	Q	Q	431

Table B18. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
		Nongovernment-Owned Buildings				Government-Owned Buildings			
	All Buildings*	Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	64,783	49,421	23,591	23,914	1,916	15,363	1,956	3,808	9,599
Energy End Uses (more than one may apply)									
Buildings with Space Heating	60,028	45,064	22,364	21,630	1,069	14,964	1,908	3,710	9,346
Buildings with Cooling	56,940	43,341	21,640	21,160	540	13,599	1,357	3,542	8,701
Buildings with Water Heating	56,478	42,588	21,511	20,404	673	13,890	1,407	3,626	8,857
Buildings with Cooking	22,237	14,480	7,694	6,740	Q	7,757	674	976	6,107
Buildings with Manufacturing	3,138	3,010	1,591	1,419	N	Q	Q	Q	Q
Buildings with Electricity Generation	12,821	8,748	4,441	4,219	Q	4,073	459	1,172	2,442
Percent of Floorspace Heated									
Not Heated	4,756	4,357	1,227	2,283	847	399	Q	Q	253
1 to 50	6,850	6,466	3,006	3,240	Q	384	Q	Q	273
51 to 99	8,107	6,023	3,132	2,838	Q	2,083	288	344	1,452
100	45,071	32,575	16,226	15,553	795	12,497	1,603	3,273	7,621
Percent of Floorspace Cooled									
Not Cooled	7,843	6,080	1,951	2,753	1,376	1,763	Q	266	898
1 to 50	16,598	13,595	6,911	6,386	Q	3,003	Q	645	2,124
51 to 99	13,211	9,742	4,982	4,734	Q	3,468	484	738	2,247
100	27,132	20,004	9,748	10,040	Q	7,128	639	2,159	4,330
Percent Lit When Open									
Zero	293	271	Q	Q	N	Q	N	Q	Q
1 to 50	10,203	9,154	5,113	4,041	N	1,049	Q	352	617
51 to 99	18,288	12,832	6,655	6,178	N	5,456	591	1,468	3,397
100	32,789	24,275	11,545	12,729	N	8,514	1,239	1,944	5,331
Building Never Open/ Electricity Not Used	3,210	2,888	200	772	1,916	321	Q	Q	Q
Percent Lit When Closed									
Zero	17,385	13,423	6,600	6,138	685	3,962	Q	813	2,595
1 to 50	30,948	22,166	10,993	10,562	611	8,782	646	2,326	5,809
51 to 100	2,093	1,601	754	844	Q	492	Q	Q	Q
Building Never Closed/ Electricity Not Used	14,357	12,231	5,244	6,370	617	2,126	606	577	944
Heating Equipment (more than one may apply)									
Heat Pumps	8,814	6,502	3,362	3,117	Q	2,312	Q	216	1,764
Packaged Heat Pumps	5,442	4,032	2,199	1,810	Q	1,410	Q	Q	1,008
Split-System Heat Pumps	2,581	2,002	1,017	985	N	579	Q	Q	Q
Individual Room Heat Pumps	2,691	1,698	776	922	N	993	Q	Q	948
Furnaces	19,615	16,722	8,468	7,808	Q	2,893	Q	530	2,250
Individual Space Heaters	12,545	9,880	5,128	4,575	Q	2,665	406	364	1,896
District Heat	5,166	1,980	1,363	587	Q	3,186	Q	1,603	639
Boilers	20,423	13,422	7,033	6,172	Q	7,001	756	1,444	4,801
Packaged Heating Units	18,021	14,279	6,674	7,225	Q	3,742	325	499	2,918
Other	3,262	2,836	1,246	1,537	Q	427	Q	Q	297

Table B18. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
		Nongovernment-Owned Buildings				Government-Owned Buildings			
	All Buildings*	Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	64,783	49,421	23,591	23,914	1,916	15,363	1,956	3,808	9,599
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	11,035	9,150	4,697	4,405	Q	1,885	Q	233	1,322
Heat Pumps	9,041	6,709	3,500	3,170	Q	2,332	Q	216	1,743
Packaged Heat Pumps	5,426	4,055	2,180	1,836	Q	1,371	Q	Q	922
Split-System Heat Pumps	2,606	2,021	998	1,023	N	585	Q	Q	Q
Individual Room Heat Pumps	2,940	1,924	951	973	N	1,016	Q	Q	971
Individual Air Conditioners	12,558	9,008	4,461	4,419	Q	3,550	253	686	2,612
District Chilled Water	2,853	1,069	711	323	Q	1,785	247	1,051	487
Central Chillers	11,636	7,055	3,586	3,432	Q	4,581	681	1,258	2,642
Packaged Air Conditioning Units	29,969	23,772	11,883	11,561	Q	6,197	606	1,002	4,588
Swamp Coolers	1,561	1,153	642	505	Q	407	Q	Q	Q
Other	1,232	920	495	425	N	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	16,403	12,856	6,478	6,166	Q	3,547	171	750	2,626
Cooling	20,995	16,049	8,043	7,957	Q	4,946	600	974	3,372
Water Heating Equipment									
Centralized System	34,671	26,319	13,602	12,176	Q	8,352	737	2,537	5,077
Distributed System	11,540	9,328	4,646	4,567	Q	2,212	Q	456	1,504
Combination of Centralized and Distributed System	10,267	6,941	3,263	3,661	Q	3,326	417	633	2,276
Lighting Equipment Types (more than one may apply)									
Incandescent	38,528	29,422	15,132	13,986	Q	9,106	1,016	2,460	5,630
Standard Fluorescent	59,688	44,937	22,532	21,857	548	14,750	1,946	3,743	9,060
Compact Fluorescent	27,571	20,019	10,599	9,326	Q	7,552	935	2,274	4,343
High Intensity Discharge	20,643	13,866	6,915	6,727	Q	6,777	1,215	1,411	4,152
Halogen	17,703	14,281	7,011	7,240	Q	3,422	415	688	2,318
Other	269	Q	Q	Q	N	Q	N	Q	Q
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	52,974	39,741	20,451	18,870	Q	13,233	1,297	3,302	8,633
Commercial Refrigeration	26,768	18,344	9,103	9,190	Q	8,424	732	1,324	6,368
Walk-In Units	20,254	13,335	6,276	7,009	Q	6,920	689	1,097	5,134
Cases or Cabinets	20,424	14,486	7,055	7,389	Q	5,938	528	995	4,415
Residential-Type Units	38,884	29,266	15,919	13,060	Q	9,618	1,071	2,256	6,291
Vending Machines	35,335	24,400	12,198	12,087	Q	10,935	1,188	2,913	6,834
No Refrigeration	11,809	9,680	3,140	5,043	1,497	2,130	Q	506	965

Table B18. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
		Nongovernment-Owned Buildings				Government-Owned Buildings			
	All Buildings*	Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	64,783	49,421	23,591	23,914	1,916	15,363	1,956	3,808	9,599
Office Equipment (more than one may apply)									
Computers	55,627	41,299	20,996	20,004	Q	14,329	1,674	3,661	8,994
With Flat Screen Monitors	26,417	18,776	10,016	8,760	N	7,641	919	2,395	4,327
Dedicated Servers	36,338	25,984	13,472	12,497	Q	10,354	1,207	2,409	6,738
Laser Printers	33,012	24,340	12,680	11,429	Q	8,672	616	1,804	6,252
Inkjet Printers	32,210	24,321	12,192	12,091	Q	7,889	1,104	2,233	4,552
FAX Machines	52,373	39,573	20,042	19,296	Q	12,800	1,273	3,306	8,221
Photocopiers	46,257	33,724	17,771	15,878	Q	12,533	1,322	3,242	7,969
Number of Computers									
None	9,156	8,122	2,595	3,910	1,617	1,034	Q	Q	604
1 to 4	12,395	10,829	5,187	5,377	Q	1,566	Q	373	855
5 to 9	7,179	6,426	3,509	2,917	N	754	Q	186	349
10 to 19	6,610	5,635	2,785	2,815	Q	975	Q	Q	603
20 to 49	7,414	5,697	2,859	2,838	N	1,718	Q	570	1,059
50 to 99	5,376	3,273	1,694	1,579	N	2,103	Q	524	1,466
100 to 249	6,690	3,040	1,439	1,601	N	3,651	Q	712	2,853
250 or More	9,963	6,400	3,522	2,878	N	3,563	724	1,030	1,809
Number of Dedicated Servers									
None	28,445	23,437	10,119	11,416	1,902	5,009	Q	1,399	2,861
1 to 4	24,116	17,137	8,776	8,346	Q	6,979	413	1,290	5,277
5 to 9	3,864	2,654	1,448	1,206	N	1,210	Q	Q	794
10 to 19	3,027	1,913	1,011	902	N	1,115	149	500	Q
20 to 49	2,583	1,937	975	962	N	646	Q	Q	Q
50 or More	2,748	2,344	1,262	1,081	N	404	Q	Q	Q
Number of Photocopiers									
None	18,526	15,697	5,820	8,036	1,841	2,830	Q	566	1,630
One	15,475	12,917	6,962	5,881	Q	2,557	Q	752	1,483
2 to 4	15,082	10,222	5,091	5,131	N	4,860	Q	1,199	3,527
5 to 9	5,515	3,124	1,737	1,388	N	2,391	Q	773	1,492
10 or More	10,185	7,461	3,982	3,478	N	2,724	739	518	1,467
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	22,223	14,478	7,694	6,740	Q	7,746	674	976	6,096
Activities with Large Amounts of Hot Water	19,482	12,990	6,200	6,744	Q	6,492	630	1,274	4,589
Separate Computer Area	26,873	17,092	8,862	8,196	Q	9,781	996	2,064	6,720
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	19,597	13,196	6,873	6,088	Q	6,401	569	1,892	3,941
Economizer Cycle	21,108	14,155	7,269	6,730	Q	6,953	753	2,093	4,108
HVAC Maintenance	51,163	37,125	18,712	17,826	587	14,039	1,868	3,523	8,648
Energy Management and Control System (EMCS)	15,630	8,641	4,651	3,844	Q	6,989	524	1,782	4,683

Table B18. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
		Nongovernment-Owned Buildings				Government-Owned Buildings			
	All Buildings*	Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	64,783	49,421	23,591	23,914	1,916	15,363	1,956	3,808	9,599
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	38,910	29,309	15,206	13,582	522	9,600	846	2,246	6,509
Tinted Window Glass	29,887	22,272	10,920	10,517	835	7,615	1,491	1,850	4,274
Reflective Window Glass	8,544	6,782	3,174	3,495	Q	1,762	Q	311	1,157
External Overhangs or Awnings	17,242	13,668	6,840	6,659	Q	3,574	259	983	2,332
Skylights or Atriums	12,546	8,961	4,997	3,900	Q	3,585	394	808	2,383
Daylighting Sensors	2,868	2,020	952	1,040	Q	848	Q	Q	534
Specular Reflectors	26,118	18,580	9,742	8,568	Q	7,538	1,414	1,730	4,394
Electronic Ballasts	46,882	34,000	17,281	16,360	Q	12,882	1,747	3,201	7,933
Energy Management and Control System (EMCS) for Lighting	4,781	3,370	1,846	1,524	N	1,411	Q	Q	1,137
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	42,722	31,594	16,247	14,526	821	11,128	948	2,424	7,756
Cooling	43,205	32,135	16,719	15,007	Q	11,070	959	2,599	7,512
Lighting	46,987	34,378	17,600	16,778	N	12,609	1,284	3,154	8,172
Office Equipment	19,397	13,287	7,170	5,935	Q	6,110	Q	1,141	4,380

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B19. Number of Establishments in Building, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)						
		Number of Establishments in Building					
	All Buildings*	One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
All Buildings*	4,645	3,754	643	55	23	14	157
Building Floorspace (Square Feet)							
1,001 to 5,000	2,552	2,131	311	Q	Q	N	100
5,001 to 10,000	889	720	136	Q	N	Q	Q
10,001 to 25,000	738	590	104	22	Q	Q	Q
25,001 to 50,000	241	163	50	11	Q	Q	Q
50,001 to 100,000	129	87	25	4	5	Q	Q
100,001 to 200,000	65	43	11	4	Q	Q	Q
200,001 to 500,000	25	15	5	Q	1	2	Q
Over 500,000	7	3	1	Q	Q	1	Q
Principal Building Activity							
Education	386	360	21	Q	N	N	N
Food Sales	226	203	Q	N	N	Q	N
Food Service	297	270	26	Q	N	N	N
Health Care	129	91	34	Q	Q	Q	N
Inpatient	8	6	1	Q	Q	Q	N
Outpatient	121	84	32	Q	Q	Q	N
Lodging	142	130	12	Q	N	N	N
Retail (Other Than Mall)	443	368	68	Q	Q	Q	N
Office	824	536	228	37	14	7	N
Public Assembly	277	237	35	Q	Q	Q	N
Public Order and Safety	71	57	Q	Q	Q	N	N
Religious Worship	370	339	31	N	Q	N	N
Service	622	561	58	Q	Q	N	N
Warehouse and Storage	597	518	74	Q	Q	Q	N
Other	79	63	15	Q	N	Q	N
Vacant	182	Q	Q	N	N	N	157
Year Constructed							
Before 1920	330	248	61	Q	Q	Q	Q
1920 to 1945	527	402	84	Q	Q	Q	35
1946 to 1959	562	449	78	Q	Q	Q	Q
1960 to 1969	579	479	74	7	Q	Q	Q
1970 to 1979	731	599	92	12	7	3	Q
1980 to 1989	707	545	111	12	4	4	Q
1990 to 1999	876	746	106	Q	Q	Q	Q
2000 to 2003	334	286	37	Q	Q	Q	Q
Census Region							
Northeast	726	559	130	12	5	3	Q
Midwest	1,266	1,047	157	12	2	Q	47
South	1,775	1,444	215	16	9	7	84
West	878	704	141	15	7	3	Q
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	855	667	147	8	Q	Q	Q
5,500-7,000 HDD	1,173	955	167	16	5	Q	28
4,000-5,499 HDD	673	554	87	6	4	Q	Q
Fewer than 4,000 HDD	1,276	1,060	143	13	4	5	51
2,000 CDD or More and --							
Fewer than 4,000 HDD	669	516	99	11	8	2	32

Table B19. Number of Establishments in Building, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)						
		Number of Establishments in Building					
	All Buildings*	One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
All Buildings*	4,645	3,754	643	55	23	14	157
Number of Floors							
One	3,136	2,670	333	17	Q	Q	111
Two	1,031	757	211	19	Q	Q	33
Three	339	244	64	9	5	Q	Q
Four to Nine	128	79	31	8	5	2	Q
Ten or More	12	3	3	Q	1	3	N
Elevators and Escalators (more than one may apply)							
Any Elevators	309	183	74	22	12	8	9
Number of Elevators							
One	208	132	52	12	Q	Q	Q
Two to Five	88	46	19	9	7	4	Q
Six or More	13	4	3	1	1	3	Q
Any Escalators	6	3	Q	Q	Q	1	Q
Number of Workers (main shift)							
Fewer than 5	2,653	2,233	252	Q	Q	Q	157
5 to 9	778	627	149	Q	Q	N	N
10 to 19	563	442	110	Q	N	Q	N
20 to 49	398	291	84	17	Q	Q	N
50 to 99	147	100	29	9	6	Q	N
100 to 249	77	47	14	6	6	4	N
250 or More	30	13	6	4	2	4	N
Weekly Operating Hours							
Fewer than 40	1,002	774	68	N	Q	Q	157
40 to 48	1,117	868	225	13	Q	Q	N
49 to 60	1,062	836	192	23	8	4	N
61 to 84	591	505	68	12	3	3	N
85 to 167	400	358	39	Q	Q	Q	N
Open Continuously	475	413	51	5	3	2	N
Ownership and Occupancy							
Nongovernment Owned	4,011	3,200	584	50	22	13	141
Owner Occupied	1,841	1,460	342	23	10	5	N
Nonowner Occupied	2,029	1,740	242	27	12	8	N
Unoccupied	141	N	N	N	N	N	141
Government Owned	635	553	59	5	Q	Q	Q
Federal	46	41	Q	Q	Q	Q	Q
State	164	147	13	Q	Q	Q	Q
Local	425	366	41	Q	Q	Q	Q
Vacancy Status							
Completely Vacant	157	N	N	N	N	N	157
Mostly Vacant	25	Q	Q	N	N	N	N
Partially Vacant	548	391	107	26	14	10	N
Not At All Vacant	3,915	3,344	529	29	9	4	N

Table B19. Number of Establishments in Building, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)						
		Number of Establishments in Building					
	All Buildings*	One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
All Buildings*	4,645	3,754	643	55	23	14	157
Multibuilding Facility							
Not Part of a Multibuilding Facility	3,169	2,509	489	34	13	11	113
College or University	83	67	14	Q	Q	Q	N
Primary or Secondary School	254	252	Q	N	N	N	Q
Office Complex	111	50	40	14	3	Q	Q
Retail Complex	151	134	Q	Q	N	Q	Q
Religious Campus or Complex	195	170	Q	Q	Q	N	Q
Health Care Complex	39	27	11	Q	Q	Q	Q
Lodging or Resort Complex	61	51	Q	Q	N	N	Q
Government Complex	87	71	Q	Q	Q	Q	Q
Other	496	422	46	Q	Q	Q	Q
Energy Sources (more than one may apply)							
Electricity	4,404	3,591	635	55	23	14	85
Natural Gas	2,391	1,912	382	39	12	9	37
Fuel Oil	451	373	65	6	3	3	Q
District Heat	67	45	15	Q	Q	1	Q
District Chilled Water	33	22	8	Q	Q	Q	Q
Propane	502	433	60	Q	Q	Q	Q
Other	132	107	24	Q	N	Q	Q
Energy End Uses (more than one may apply)							
Buildings with Space Heating	3,982	3,233	602	53	22	13	60
Buildings with Cooling	3,625	2,921	578	52	22	12	40
Buildings with Water Heating	3,472	2,779	574	53	21	10	34
Buildings with Cooking	801	676	106	Q	5	3	Q
Buildings with Manufacturing	119	89	25	Q	Q	Q	N
Buildings with Electricity Generation	149	109	28	6	3	3	Q
Heating Equipment (more than one may apply)							
Heat Pumps	476	398	57	8	5	2	Q
Packaged Heat Pumps	278	228	34	Q	Q	Q	Q
Split-System Heat Pumps	166	141	21	Q	Q	Q	N
Individual Room Heat Pumps	58	51	4	Q	Q	Q	N
Furnaces	1,864	1,483	321	22	Q	Q	Q
Individual Space Heaters	819	669	126	7	Q	2	Q
District Heat	65	43	15	Q	Q	Q	Q
Boilers	579	464	92	8	5	6	Q
Packaged Heating Units	953	769	148	14	6	4	Q
Other	205	169	27	Q	Q	Q	Q

Table B19. Number of Establishments in Building, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)						
		Number of Establishments in Building					
	All Buildings*	One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
All Buildings*	4,645	3,754	643	55	23	14	157
Cooling Equipment (more than one may apply)							
Residential-Type Central Air Conditioners	1,006	764	219	13	Q	Q	Q
Heat Pumps	492	410	58	8	6	2	Q
Packaged Heat Pumps	288	234	34	Q	Q	Q	Q
Split-System Heat Pumps	174	148	22	Q	Q	Q	N
Individual Room Heat Pumps	58	51	4	Q	Q	Q	N
Individual Air Conditioners	742	610	112	7	Q	Q	Q
District Chilled Water	33	22	8	Q	Q	Q	Q
Central Chillers	111	79	19	6	3	4	Q
Packaged Air Conditioning Units	1,613	1,318	240	25	10	7	Q
Swamp Coolers	122	97	20	Q	Q	Q	Q
Other	40	28	Q	Q	Q	Q	N
Main Equipment Replaced Since 1990 (more than one may apply)							
Heating	1,197	949	197	16	7	4	Q
Cooling	1,356	1,078	236	19	8	4	Q
Office Equipment (more than one may apply)							
Computers	3,081	2,443	539	55	23	13	Q
With Flat Screen Monitors	877	637	186	29	14	11	Q
Dedicated Servers	1,175	880	238	34	14	8	Q
Laser Printers	1,970	1,545	370	32	11	8	Q
Inkjet Printers	1,420	1,102	254	33	18	10	Q
FAX Machines	2,715	2,107	511	55	21	11	Q
Photocopiers	1,939	1,463	391	47	21	10	Q
Number of Computers							
None	1,565	1,311	104	N	Q	Q	148
1 to 4	1,670	1,402	241	Q	Q	Q	Q
5 to 9	559	439	114	Q	Q	Q	N
10 to 19	370	278	80	Q	Q	Q	Q
20 to 49	255	178	61	12	Q	Q	N
50 to 99	110	69	24	9	5	Q	N
100 to 249	79	55	11	5	5	Q	Q
250 or More	38	22	7	3	2	3	N
Number of Dedicated Servers							
None	3,471	2,873	405	20	Q	Q	157
1 to 4	1,060	818	212	21	7	Q	Q
5 to 9	58	35	11	8	3	Q	N
10 to 19	30	15	6	4	Q	2	N
20 to 49	17	8	5	Q	Q	3	N
50 or More	10	5	Q	Q	Q	1	N
Number of Photocopiers							
None	2,706	2,291	252	Q	Q	Q	150
One	1,250	1,023	202	Q	Q	Q	Q
2 to 4	549	371	159	13	Q	Q	Q
5 to 9	85	50	17	15	Q	Q	N
10 or More	54	18	12	9	9	7	N

Table B19. Number of Establishments in Building, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)						
		Number of Establishments in Building					
	All Buildings*	One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
All Buildings*	4,645	3,754	643	55	23	14	157
Energy-Related Space Functions (more than one may apply)							
Commercial Food Preparation	799	676	106	Q	5	3	Q
Activities with Large Amounts of Hot Water	567	486	71	5	2	2	Q
Separate Computer Area	553	421	103	15	8	6	Q
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	466	361	73	15	9	5	Q
Economizer Cycle	508	396	80	19	6	5	Q
HVAC Maintenance	2,581	2,069	420	44	21	9	17
Energy Management and Control System (EMCS)	252	197	34	9	4	4	Q
Window and Interior Lighting Features (more than one may apply)							
Multipaned Windows	2,201	1,751	354	33	14	8	41
Tinted Window Glass	1,323	1,032	227	26	11	6	21
Reflective Window Glass	308	252	32	10	Q	3	Q
External Overhangs or Awnings	1,233	968	205	20	8	Q	28
Skylights or Atriums	331	248	60	9	4	3	Q
Daylighting Sensors	74	64	7	Q	Q	Q	Q
Specular Reflectors	928	746	139	21	11	6	Q
Electronic Ballasts	2,577	2,113	390	36	16	14	Q
Energy Management and Control System (EMCS) for Lighting	60	49	6	Q	1	2	N
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]							
Heating	2,878	2,328	447	39	12	11	42
Cooling	2,761	2,199	471	40	13	11	27
Lighting	3,685	3,041	566	47	20	11	N
Office Equipment	1,504	1,225	246	20	5	Q	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B20. Number of Establishments in Building, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
		Number of Establishments in Building					
	All Buildings*	One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
All Buildings*	64,783	45,144	10,960	1,958	1,951	2,609	2,161
Building Floorspace (Square Feet)							
1,001 to 5,000	6,789	5,613	916	Q	Q	N	223
5,001 to 10,000	6,585	5,304	1,031	Q	N	Q	Q
10,001 to 25,000	11,535	9,098	1,732	383	Q	Q	Q
25,001 to 50,000	8,668	5,807	1,837	355	Q	Q	Q
50,001 to 100,000	9,057	6,218	1,739	273	337	Q	Q
100,001 to 200,000	9,064	6,102	1,545	539	Q	Q	Q
200,001 to 500,000	7,176	4,246	1,361	Q	389	531	Q
Over 500,000	5,908	2,756	800	Q	Q	1,522	Q
Principal Building Activity							
Education	9,874	8,714	946	Q	N	N	N
Food Sales	1,255	1,057	Q	N	N	Q	N
Food Service	1,654	1,375	246	Q	N	N	N
Health Care	3,163	2,004	735	Q	Q	Q	N
Inpatient	1,905	1,328	361	Q	Q	Q	N
Outpatient	1,258	676	374	Q	Q	Q	N
Lodging	5,096	4,234	783	Q	N	N	N
Retail (Other Than Mall)	4,317	3,410	630	Q	Q	Q	N
Office	12,208	4,894	2,709	1,144	1,332	2,129	N
Public Assembly	3,939	3,110	677	Q	Q	Q	N
Public Order and Safety	1,090	643	Q	Q	Q	N	N
Religious Worship	3,754	3,272	479	N	Q	N	N
Service	4,050	3,509	465	Q	Q	N	N
Warehouse and Storage	10,078	7,560	2,034	Q	Q	Q	N
Other	1,738	1,188	495	Q	N	Q	N
Vacant	2,567	Q	Q	N	N	N	2,161
Year Constructed							
Before 1920	3,769	2,460	788	Q	Q	Q	Q
1920 to 1945	6,871	4,557	997	Q	Q	Q	465
1946 to 1959	7,045	5,229	1,145	Q	Q	Q	Q
1960 to 1969	8,101	5,582	1,476	306	Q	Q	Q
1970 to 1979	10,772	7,604	1,552	297	277	600	Q
1980 to 1989	10,332	6,287	2,142	387	491	882	Q
1990 to 1999	12,360	9,151	2,080	Q	Q	Q	Q
2000 to 2003	5,533	4,273	780	Q	Q	Q	Q
Census Region							
Northeast	12,905	8,061	2,517	571	722	696	Q
Midwest	17,080	12,359	2,803	510	301	Q	892
South	23,489	16,947	3,740	550	589	1,011	652
West	11,310	7,776	1,900	327	340	688	Q
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	10,622	7,138	2,271	401	Q	Q	Q
5,500-7,000 HDD	17,335	12,514	2,774	540	409	Q	821
4,000-5,499 HDD	11,504	7,713	1,887	341	533	812	Q
Fewer than 4,000 HDD	15,739	11,616	2,422	226	387	598	491
2,000 CDD or More and --							
Fewer than 4,000 HDD	9,584	6,163	1,606	450	304	760	303

Table B20. Number of Establishments in Building, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
		Number of Establishments in Building					
	All Buildings*	One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
All Buildings*	64,783	45,144	10,960	1,958	1,951	2,609	2,161
Number of Floors							
One	25,981	20,956	3,717	265	Q	Q	889
Two	16,270	11,910	2,858	527	Q	Q	652
Three	7,501	5,084	1,279	259	481	Q	Q
Four to Nine	10,085	5,860	2,335	697	496	345	Q
Ten or More	4,947	1,332	772	Q	693	1,940	N
Elevators and Escalators (more than one may apply)							
Any Elevators	24,617	13,567	4,830	1,404	1,729	2,453	634
Number of Elevators							
One	8,221	5,751	1,639	360	Q	Q	Q
Two to Five	10,129	5,410	2,137	804	959	462	Q
Six or More	6,268	2,406	1,054	241	638	1,900	Q
Any Escalators	2,350	1,023	Q	Q	Q	809	Q
Number of Workers (main shift)							
Fewer than 5	15,492	11,824	1,399	Q	Q	Q	2,161
5 to 9	6,166	4,924	1,183	Q	Q	N	N
10 to 19	7,803	6,115	1,584	Q	N	Q	N
20 to 49	10,989	7,967	2,369	476	Q	Q	N
50 to 99	7,934	5,487	1,487	375	511	Q	N
100 to 249	6,871	4,368	1,451	340	420	293	N
250 or More	9,528	4,458	1,486	565	853	2,165	N
Weekly Operating Hours							
Fewer than 40	6,863	4,235	437	N	Q	Q	2,161
40 to 48	11,622	8,244	2,714	213	Q	Q	N
49 to 60	15,723	10,192	3,022	806	852	851	N
61 to 84	10,334	7,310	1,664	323	346	691	N
85 to 167	7,092	5,645	1,038	Q	Q	Q	N
Open Continuously	13,149	9,518	2,086	403	437	705	N
Ownership and Occupancy							
Nongovernment Owned	49,421	32,808	8,830	1,539	1,791	2,536	1,916
Owner Occupied	23,591	15,690	4,948	519	1,149	1,285	N
Nonowner Occupied	23,914	17,118	3,882	1,020	642	1,251	N
Unoccupied	1,916	N	N	N	N	N	1,916
Government Owned	15,363	12,336	2,130	419	Q	Q	Q
Federal	1,956	1,683	Q	Q	Q	Q	Q
State	3,808	2,633	866	Q	Q	Q	Q
Local	9,599	8,020	1,177	Q	Q	Q	Q
Vacancy Status							
Completely Vacant	2,161	N	N	N	N	N	2,161
Mostly Vacant	406	Q	Q	N	N	N	N
Partially Vacant	12,382	5,288	2,473	1,043	1,427	2,151	N
Not At All Vacant	49,834	39,682	8,255	915	524	458	N

Table B20. Number of Establishments in Building, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
		Number of Establishments in Building					
	All Buildings*	One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
All Buildings*	64,783	45,144	10,960	1,958	1,951	2,609	2,161
Multibuilding Facility							
Not Part of a Multibuilding Facility	40,048	27,568	6,792	1,019	1,064	2,005	1,601
College or University	3,480	2,136	1,085	Q	Q	Q	N
Primary or Secondary School	3,947	3,779	Q	N	N	N	Q
Office Complex	2,712	877	546	422	375	Q	Q
Retail Complex	1,238	1,004	Q	Q	N	Q	Q
Religious Campus or Complex	2,347	2,027	Q	Q	Q	N	Q
Health Care Complex	2,303	1,620	471	Q	Q	Q	Q
Lodging or Resort Complex	912	698	Q	Q	N	N	Q
Government Complex	2,014	1,559	Q	Q	Q	Q	Q
Other	5,783	3,877	1,000	Q	Q	Q	Q
Energy Sources (more than one may apply)							
Electricity	63,307	44,379	10,921	1,958	1,951	2,609	1,489
Natural Gas	43,468	30,518	7,593	1,355	1,271	1,797	933
Fuel Oil	15,157	9,213	2,657	524	1,119	1,567	Q
District Heat	5,443	3,063	1,301	Q	Q	436	Q
District Chilled Water	2,853	1,608	849	Q	Q	Q	Q
Propane	7,076	5,379	1,071	Q	Q	Q	Q
Other	1,401	858	409	Q	N	Q	Q
Energy End Uses (more than one may apply)							
Buildings with Space Heating	60,028	42,173	10,296	1,924	1,858	2,555	1,222
Buildings with Cooling	56,940	39,811	10,345	1,922	1,700	2,577	585
Buildings with Water Heating	56,478	39,280	10,117	1,933	1,880	2,550	718
Buildings with Cooking	22,237	16,102	3,530	398	639	1,481	Q
Buildings with Manufacturing	3,138	1,980	632	Q	Q	Q	N
Buildings with Electricity Generation	12,821	7,603	2,400	476	829	1,415	Q
Heating Equipment (more than one may apply)							
Heat Pumps	8,814	6,637	1,111	368	350	325	Q
Packaged Heat Pumps	5,442	3,980	686	Q	Q	Q	Q
Split-System Heat Pumps	2,581	2,094	321	Q	Q	Q	N
Individual Room Heat Pumps	2,691	2,008	310	Q	Q	Q	N
Furnaces	19,615	14,437	3,761	414	Q	Q	Q
Individual Space Heaters	12,545	8,528	2,419	420	Q	419	Q
District Heat	5,166	2,905	1,245	Q	Q	Q	Q
Boilers	20,423	14,218	3,370	646	704	1,227	Q
Packaged Heating Units	18,021	12,903	2,880	597	650	610	Q
Other	3,262	2,022	508	Q	Q	Q	Q

Table B20. Number of Establishments in Building, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
		Number of Establishments in Building					
	All Buildings*	One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
All Buildings*	64,783	45,144	10,960	1,958	1,951	2,609	2,161
Cooling Equipment (more than one may apply)							
Residential-Type Central Air Conditioners	11,035	8,024	2,313	329	Q	Q	Q
Heat Pumps	9,041	6,659	1,166	366	355	456	Q
Packaged Heat Pumps	5,426	3,938	688	Q	Q	Q	Q
Split-System Heat Pumps	2,606	2,056	354	Q	Q	Q	N
Individual Room Heat Pumps	2,940	2,095	329	Q	Q	Q	N
Individual Air Conditioners	12,558	9,223	2,358	315	Q	Q	Q
District Chilled Water	2,853	1,608	849	Q	Q	Q	Q
Central Chillers	11,636	6,679	1,834	573	689	1,820	Q
Packaged Air Conditioning Units	29,969	21,391	5,283	982	966	1,019	Q
Swamp Coolers	1,561	1,204	233	Q	Q	Q	Q
Other	1,232	729	Q	Q	Q	Q	N
Main Equipment Replaced Since 1990 (more than one may apply)							
Heating	16,403	11,523	2,890	559	798	405	Q
Cooling	20,995	14,585	3,831	699	655	1,147	Q
Office Equipment (more than one may apply)							
Computers	55,627	38,544	10,293	1,958	1,948	2,571	Q
With Flat Screen Monitors	26,417	15,859	5,172	1,415	1,546	2,413	Q
Dedicated Servers	36,338	23,761	6,942	1,532	1,711	2,363	Q
Laser Printers	33,012	22,914	6,411	1,214	877	1,354	Q
Inkjet Printers	32,210	20,886	6,233	1,284	1,602	2,163	Q
FAX Machines	52,373	35,578	10,038	1,951	1,946	2,581	Q
Photocopiers	46,257	31,326	8,809	1,846	1,689	2,496	Q
Number of Computers							
None	9,156	6,600	667	N	Q	Q	1,847
1 to 4	12,395	10,211	1,720	Q	Q	Q	Q
5 to 9	7,179	5,347	1,475	Q	Q	Q	N
10 to 19	6,610	4,712	1,593	Q	Q	Q	Q
20 to 49	7,414	5,201	1,726	362	Q	Q	N
50 to 99	5,376	3,406	1,097	401	300	Q	N
100 to 249	6,690	4,665	991	319	434	Q	Q
250 or More	9,963	5,002	1,691	498	741	2,031	N
Number of Dedicated Servers							
None	28,445	21,382	4,018	426	Q	Q	2,132
1 to 4	24,116	17,854	4,935	641	436	Q	Q
5 to 9	3,864	2,070	653	408	522	Q	N
10 to 19	3,027	1,505	595	410	Q	276	N
20 to 49	2,583	986	393	Q	Q	923	N
50 or More	2,748	1,346	365	Q	Q	732	N
Number of Photocopiers							
None	18,526	13,818	2,151	Q	Q	Q	2,072
One	15,475	12,580	2,500	Q	Q	Q	Q
2 to 4	15,082	10,854	3,401	467	Q	Q	Q
5 to 9	5,515	3,592	1,070	657	Q	Q	N
10 or More	10,185	4,300	1,838	554	1,208	2,285	N

Table B20. Number of Establishments in Building, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
		Number of Establishments in Building					
	All Buildings*	One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
All Buildings*	64,783	45,144	10,960	1,958	1,951	2,609	2,161
Energy-Related Space Functions (more than one may apply)							
Commercial Food Preparation	22,223	16,090	3,530	398	639	1,481	Q
Activities with Large Amounts of Hot Water	19,482	14,846	3,037	331	463	730	Q
Separate Computer Area	26,873	17,693	5,002	822	1,216	2,093	Q
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	19,597	11,801	3,519	988	1,230	1,809	Q
Economizer Cycle	21,108	13,314	3,898	1,163	1,011	1,563	Q
HVAC Maintenance	51,163	35,231	9,184	1,774	1,866	2,466	642
Energy Management and Control System (EMCS)	15,630	9,706	2,588	642	821	1,727	Q
Window and Interior Lighting Features (more than one may apply)							
Multipaned Windows	38,910	27,265	7,011	1,194	1,436	1,430	574
Tinted Window Glass	29,887	18,968	5,774	1,218	1,297	1,791	839
Reflective Window Glass	8,544	5,379	1,102	438	475	1,037	Q
External Overhangs or Awnings	17,242	12,582	2,879	806	500	285	190
Skylights or Atriums	12,546	8,361	2,543	441	512	610	Q
Daylighting Sensors	2,868	1,899	540	Q	Q	Q	Q
Specular Reflectors	26,118	16,988	4,570	1,074	1,405	1,811	Q
Electronic Ballasts	46,882	32,240	8,346	1,560	1,820	2,515	Q
Energy Management and Control System (EMCS) for Lighting	4,781	2,804	680	Q	382	681	N
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]							
Heating	42,722	29,789	7,290	1,305	1,296	2,169	873
Cooling	43,205	29,802	7,892	1,528	1,395	2,148	439
Lighting	46,987	33,694	8,403	1,523	1,484	1,884	N
Office Equipment	19,397	14,753	3,558	442	249	Q	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B21. Multibuilding Facilities, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)			Total Floorspace (million square feet)		
		Buildings on Multibuilding Facilities			Buildings on Multibuilding Facilities	
	All Buildings*	All Buildings	With Central Physical Plant	All Buildings*	All Buildings	With Central Physical Plant
All Buildings*	4,645	1,477	116	64,783	24,735	6,604
Building Floorspace (Square Feet)						
1,001 to 5,000	2,552	771	Q	6,789	2,009	Q
5,001 to 10,000	889	259	Q	6,585	1,912	Q
10,001 to 25,000	738	263	33	11,535	4,158	520
25,001 to 50,000	241	92	18	8,668	3,277	630
50,001 to 100,000	129	49	13	9,057	3,381	911
100,001 to 200,000	65	28	12	9,064	3,935	1,723
200,001 to 500,000	25	13	5	7,176	3,568	1,438
Over 500,000	7	3	2	5,908	2,494	1,235
Principal Building Activity						
Education	386	281	57	9,874	5,642	2,037
Food Sales	226	Q	N	1,255	Q	N
Food Service	297	27	Q	1,654	264	Q
Health Care	129	26	4	3,163	1,899	733
Inpatient	8	6	2	1,905	1,508	629
Outpatient	121	20	Q	1,258	391	Q
Lodging	142	69	14	5,096	2,237	726
Retail (Other Than Mall)	443	66	Q	4,317	707	Q
Office	824	240	18	12,208	4,022	1,102
Public Assembly	277	84	10	3,939	1,542	602
Public Order and Safety	71	11	Q	1,090	541	Q
Religious Worship	370	121	Q	3,754	1,308	Q
Service	622	149	Q	4,050	1,041	Q
Warehouse and Storage	597	302	Q	10,078	3,874	Q
Other	79	31	Q	1,738	842	Q
Vacant	182	51	Q	2,567	670	Q
Year Constructed						
Before 1920	330	59	Q	3,769	978	Q
1920 to 1945	527	112	12	6,871	2,874	985
1946 to 1959	562	147	24	7,045	2,347	669
1960 to 1969	579	215	26	8,101	3,956	1,166
1970 to 1979	731	211	11	10,772	3,787	806
1980 to 1989	707	251	14	10,332	4,154	1,249
1990 to 1999	876	318	16	12,360	4,448	1,193
2000 to 2003	334	163	3	5,533	2,190	235
Census Region						
Northeast	726	158	19	12,905	4,490	1,103
Midwest	1,266	306	21	17,080	6,003	1,863
South	1,775	617	35	23,489	9,056	2,567
West	878	395	41	11,310	5,186	1,071

Table B21. Multibuilding Facilities, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)			Total Floorspace (million square feet)		
		Buildings on Multibuilding Facilities			Buildings on Multibuilding Facilities	
	All Buildings*	All Buildings	With Central Physical Plant	All Buildings*	All Buildings	With Central Physical Plant
All Buildings*	4,645	1,477	116	64,783	24,735	6,604
Number of Workers (main shift)						
Fewer than 5	2,653	882	35	15,492	5,554	870
5 to 9	778	184	Q	6,166	1,642	Q
10 to 19	563	165	15	7,803	2,602	253
20 to 49	398	143	27	10,989	4,084	985
50 to 99	147	54	16	7,934	3,408	1,167
100 to 249	77	36	11	6,871	3,339	1,271
250 or More	30	13	6	9,528	4,106	1,948
Weekly Operating Hours						
Fewer than 40	1,002	341	Q	6,863	2,248	Q
40 to 48	1,117	366	24	11,622	4,474	864
49 to 60	1,062	309	27	15,723	5,574	1,689
61 to 84	591	155	23	10,334	3,528	1,006
85 to 167	400	84	10	7,092	2,728	898
Open Continuously	475	223	20	13,149	6,183	1,960
Ownership and Occupancy						
Nongovernment Owned	4,011	1,062	37	49,421	15,647	2,503
Owner Occupied	1,841	446	22	23,591	7,648	1,556
Nonowner Occupied	2,029	581	15	23,914	7,461	911
Unoccupied	141	35	Q	1,916	538	Q
Government Owned	635	415	79	15,363	9,088	4,101
Federal	46	34	Q	1,956	1,240	Q
State	164	127	43	3,808	3,028	2,085
Local	425	254	26	9,599	4,819	1,210
Vacancy Status						
Completely Vacant	157	44	Q	2,161	560	Q
Mostly Vacant	25	Q	N	406	Q	N
Partially Vacant	548	219	19	12,382	5,092	1,311
Not At All Vacant	3,915	1,207	96	49,834	18,973	5,257
Multibuilding Facility Activity						
Not Part of a Multibuilding Facility	3,169	N	N	40,048	N	N
College or University	83	83	48	3,480	3,480	2,467
Primary or Secondary School	254	254	36	3,947	3,947	871
Office Complex	111	111	4	2,712	2,712	456
Retail Complex	151	151	N	1,238	1,238	N
Religious Campus or Complex	195	195	Q	2,347	2,347	Q
Health Care Complex	39	39	8	2,303	2,303	867
Lodging or Resort Complex	61	61	Q	912	912	Q
Government Complex	87	87	5	2,014	2,014	Q
Other	496	496	5	5,783	5,783	526
Central Plant that Produces						
District Hot Water	59	59	59	3,321	3,321	3,321
District Steam	56	56	56	4,059	4,059	4,059
District Chilled Water	69	69	69	4,969	4,969	4,969
Electricity	19	19	19	1,251	1,251	1,251

Table B21. Multibuilding Facilities, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)			Total Floorspace (million square feet)		
		Buildings on Multibuilding Facilities			Buildings on Multibuilding Facilities	
	All Buildings*	All Buildings	With Central Physical Plant	All Buildings*	All Buildings	With Central Physical Plant
All Buildings*	4,645	1,477	116	64,783	24,735	6,604
Energy Sources (more than one may apply)						
Electricity	4,404	1,343	116	63,307	24,089	6,604
Natural Gas	2,391	582	64	43,468	14,974	3,970
Fuel Oil	451	115	14	15,157	6,961	2,244
District Heat	67	61	58	5,443	4,241	3,909
District Chilled Water	33	29	25	2,853	2,647	2,410
Propane	502	160	9	7,076	3,315	825
Other	132	26	Q	1,401	537	Q
Energy End Uses (more than one may apply)						
Buildings with Space Heating	3,982	1,147	115	60,028	22,590	6,513
Buildings with Cooling	3,625	1,031	100	56,940	20,964	5,806
Buildings with Water Heating	3,472	967	94	56,478	21,176	5,834
Buildings with Cooking	801	175	19	22,237	8,521	2,563
Buildings with Manufacturing	119	21	Q	3,138	1,025	Q
Buildings with Electricity Generation	149	61	14	12,821	6,389	2,572

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use the particular energy source.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B22. Energy Sources, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
			Energy Sources Used (more than one may apply)						
	All Buildings*	Buildings Using Any Energy Source	Elec-tricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Other [a]
All Buildings*	4,645	4,414	4,404	2,391	451	67	33	502	132
Building Floorspace (Square Feet)									
1,001 to 5,000	2,552	2,393	2,384	1,110	209	Q	Q	295	79
5,001 to 10,000	889	836	834	496	99	Q	Q	100	Q
10,001 to 25,000	738	727	727	450	61	18	Q	64	Q
25,001 to 50,000	241	234	234	168	22	10	6	18	Q
50,001 to 100,000	129	128	128	95	23	8	5	13	Q
100,001 to 200,000	65	65	65	48	21	9	6	7	Q
200,001 to 500,000	25	24	24	19	12	4	2	4	Q
Over 500,000	7	7	7	5	4	2	1	Q	Q
Principal Building Activity									
Education	386	386	384	213	26	26	14	43	Q
Food Sales	226	226	221	98	Q	N	N	Q	Q
Food Service	297	297	297	226	Q	Q	Q	52	Q
Health Care	129	129	129	72	13	2	1	11	Q
Inpatient	8	8	8	7	7	1	1	Q	Q
Outpatient	121	121	121	65	6	Q	Q	Q	N
Lodging	142	142	142	86	28	6	Q	24	Q
Retail (Other Than Mall)	443	443	443	245	37	Q	Q	47	Q
Office	824	824	824	488	65	16	9	39	17
Public Assembly	277	274	274	146	42	6	3	37	Q
Public Order and Safety	71	71	71	36	23	Q	Q	Q	Q
Religious Worship	370	370	370	220	38	Q	Q	51	N
Service	622	601	601	281	93	Q	N	92	70
Warehouse and Storage	597	464	464	187	37	Q	Q	48	Q
Other	79	79	76	45	12	Q	Q	Q	Q
Vacant	182	108	106	49	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	330	319	318	200	75	6	Q	43	Q
1920 to 1945	527	499	499	338	52	12	Q	37	Q
1946 to 1959	562	541	541	313	75	15	4	52	Q
1960 to 1969	579	571	571	309	61	13	4	63	21
1970 to 1979	731	702	700	391	59	6	5	68	49
1980 to 1989	707	671	668	303	63	5	5	90	Q
1990 to 1999	876	813	809	419	49	8	8	95	Q
2000 to 2003	334	298	298	118	17	Q	Q	54	Q
Census Region									
Northeast	726	710	710	397	254	17	6	73	26
Midwest	1,266	1,197	1,189	802	76	13	4	173	42
South	1,775	1,656	1,654	714	84	21	14	176	28
West	878	851	851	479	37	15	9	80	37
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	855	813	809	493	145	6	3	112	43
5,500-7,000 HDD	1,173	1,131	1,129	718	148	27	4	106	44
4,000-5,499 HDD	673	646	642	347	97	13	7	Q	24
Fewer than 4,000 HDD	1,276	1,193	1,193	646	49	13	10	112	Q
2,000 CDD or More and --									
Fewer than 4,000 HDD	669	631	631	187	13	7	9	31	Q

Table B22. Energy Sources, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
			Energy Sources Used (more than one may apply)						
	All Buildings*	Buildings Using Any Energy Source	Elec-tricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Other [a]
All Buildings*	4,645	4,414	4,404	2,391	451	67	33	502	132
Number of Workers (main shift)									
Fewer than 5	2,653	2,425	2,415	1,082	252	20	Q	318	84
5 to 9	778	775	775	474	67	Q	Q	75	Q
10 to 19	563	563	563	359	38	Q	Q	59	Q
20 to 49	398	397	397	289	36	16	6	30	13
50 to 99	147	147	147	113	22	7	7	9	Q
100 to 249	77	77	77	52	20	9	6	8	Q
250 or More	30	30	30	23	16	5	4	3	1
Weekly Operating Hours									
Fewer than 40	1,002	874	866	382	83	Q	Q	125	Q
40 to 48	1,117	1,105	1,105	569	107	12	Q	115	41
49 to 60	1,062	1,058	1,055	607	100	18	6	105	30
61 to 84	591	580	580	374	55	11	6	55	Q
85 to 167	400	376	376	233	35	9	7	55	Q
Open Continuously	475	422	422	225	69	11	4	47	16
Ownership and Occupancy									
Nongovernment Owned	4,011	3,794	3,783	2,078	371	25	13	425	122
Owner Occupied	1,841	1,823	1,817	1,044	209	16	9	225	75
Nonowner Occupied	2,029	1,889	1,885	997	161	8	4	194	46
Unoccupied	141	82	81	36	Q	Q	Q	Q	Q
Government Owned	635	620	620	313	80	42	19	77	10
Federal	46	46	46	23	4	4	0	Q	Q
State	164	163	163	72	24	27	12	Q	Q
Local	425	411	411	218	52	11	7	53	Q
Vacancy Status									
Completely Vacant	157	86	85	37	Q	Q	Q	Q	Q
Mostly Vacant	25	Q	Q	Q	Q	N	N	Q	N
Partially Vacant	548	501	499	264	49	12	5	46	18
Not At All Vacant	3,915	3,806	3,798	2,079	399	54	28	449	114
Energy Sources (more than one may apply)									
Electricity	4,404	4,404	4,404	2,390	448	67	33	499	126
Natural Gas	2,391	2,391	2,390	2,391	129	25	17	47	39
Fuel Oil	451	451	448	129	451	4	3	77	29
District Heat	67	67	67	25	4	67	25	Q	Q
District Chilled Water	33	33	33	17	3	25	33	Q	Q
Propane	502	502	499	47	77	Q	Q	502	24
Other	132	132	126	39	29	Q	Q	24	132
Energy End Uses (more than one may apply)									
Buildings with Space Heating	3,982	3,982	3,971	2,344	443	67	32	489	132
Buildings with Cooling	3,625	3,625	3,623	2,153	298	55	33	399	78
Buildings with Water Heating	3,472	3,472	3,470	2,126	376	61	31	428	95
Buildings with Cooking	801	801	801	564	115	9	6	148	17
Buildings with Manufacturing	119	119	119	70	25	Q	Q	31	Q
Buildings with Electricity Generation	149	149	149	104	92	7	5	29	16

Table B22. Energy Sources, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
			Energy Sources Used (more than one may apply)						
	All Buildings*	Buildings Using Any Energy Source	Elec-tricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Other [a]
All Buildings*	4,645	4,414	4,404	2,391	451	67	33	502	132
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	799	799	799	563	115	9	6	146	17
Activities with Large Amounts of Hot Water	567	567	567	404	82	19	7	85	24
Separate Computer Area	553	553	553	373	80	19	14	50	10

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] "Other" includes wood, coal, solar, and all other energy sources.

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B23. Energy Sources, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
			Energy Sources Used (more than one may apply)						
	All Buildings*	Buildings Using Any Energy Source	Elec-tricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Other [a]
All Buildings*	64,783	63,343	63,307	43,468	15,157	5,443	2,853	7,076	1,401
Building Floorspace (Square Feet)									
1,001 to 5,000	6,789	6,362	6,346	3,084	600	Q	Q	806	199
5,001 to 10,000	6,585	6,212	6,197	3,692	716	Q	Q	725	Q
10,001 to 25,000	11,535	11,370	11,370	7,053	966	289	Q	1,014	Q
25,001 to 50,000	8,668	8,385	8,385	6,025	825	369	240	638	Q
50,001 to 100,000	9,057	9,031	9,031	6,683	1,740	574	332	925	Q
100,001 to 200,000	9,064	9,018	9,018	6,645	2,927	1,399	793	989	Q
200,001 to 500,000	7,176	7,056	7,051	5,679	3,400	1,018	495	1,165	Q
Over 500,000	5,908	5,908	5,908	4,606	3,981	1,693	822	Q	Q
Principal Building Activity									
Education	9,874	9,874	9,871	7,045	1,864	1,145	768	855	Q
Food Sales	1,255	1,255	1,237	747	Q	N	N	Q	Q
Food Service	1,654	1,654	1,654	1,396	Q	Q	Q	220	Q
Health Care	3,163	3,163	3,163	2,544	1,882	493	297	397	Q
Inpatient	1,905	1,905	1,905	1,805	1,683	436	279	329	Q
Outpatient	1,258	1,258	1,258	739	199	Q	Q	Q	N
Lodging	5,096	5,096	5,096	4,256	2,193	345	Q	614	Q
Retail (Other Than Mall)	4,317	4,317	4,317	2,866	501	Q	Q	382	Q
Office	12,208	12,208	12,208	8,208	4,075	1,569	730	368	272
Public Assembly	3,939	3,935	3,935	2,723	939	547	458	393	Q
Public Order and Safety	1,090	1,090	1,090	637	620	Q	Q	Q	Q
Religious Worship	3,754	3,754	3,754	2,629	453	Q	Q	381	N
Service	4,050	3,982	3,982	2,496	626	Q	N	557	402
Warehouse and Storage	10,078	9,425	9,425	5,494	1,268	Q	Q	2,217	Q
Other	1,738	1,738	1,729	1,252	454	Q	Q	Q	Q
Vacant	2,567	1,852	1,846	1,176	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	3,769	3,732	3,730	2,759	961	294	Q	338	Q
1920 to 1945	6,871	6,597	6,595	4,679	1,986	1,207	Q	961	Q
1946 to 1959	7,045	6,840	6,838	4,659	2,048	705	359	726	Q
1960 to 1969	8,101	8,057	8,057	5,635	1,685	853	446	746	281
1970 to 1979	10,772	10,558	10,555	7,659	2,187	588	456	1,222	401
1980 to 1989	10,332	10,163	10,154	6,469	3,079	888	531	922	Q
1990 to 1999	12,360	12,096	12,078	8,177	2,086	705	804	1,428	Q
2000 to 2003	5,533	5,299	5,299	3,431	1,125	Q	Q	733	Q
Census Region									
Northeast	12,905	12,809	12,809	9,181	6,080	1,363	620	1,354	222
Midwest	17,080	16,729	16,701	13,163	2,832	1,648	596	2,189	505
South	23,489	22,774	22,766	13,311	4,122	1,766	1,150	2,360	306
West	11,310	11,030	11,030	7,813	2,123	667	487	1,173	367
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	10,622	10,404	10,393	7,645	2,499	825	350	1,607	483
5,500-7,000 HDD	17,335	17,091	17,076	12,850	4,052	1,784	698	2,036	378
4,000-5,499 HDD	11,504	11,381	11,375	8,113	4,628	1,349	514	1,102	268
Fewer than 4,000 HDD	15,739	15,172	15,172	10,509	2,337	1,025	659	1,403	223
2,000 CDD or More and --									
Fewer than 4,000 HDD	9,584	9,295	9,290	4,350	1,642	460	633	928	Q

Table B23. Energy Sources, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
			Energy Sources Used (more than one may apply)						
	All Buildings*	Buildings Using Any Energy Source	Elec-tricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Other [a]
All Buildings*	64,783	63,343	63,307	43,468	15,157	5,443	2,853	7,076	1,401
Number of Workers (main shift)									
Fewer than 5	15,492	14,097	14,061	7,023	1,459	853	Q	2,092	307
5 to 9	6,166	6,147	6,147	4,084	625	Q	Q	564	Q
10 to 19	7,803	7,803	7,803	5,317	1,024	Q	Q	907	Q
20 to 49	10,989	10,962	10,962	8,212	1,602	667	327	907	319
50 to 99	7,934	7,934	7,934	6,156	2,131	474	505	956	Q
100 to 249	6,871	6,871	6,871	5,127	2,149	1,050	583	661	Q
250 or More	9,528	9,528	9,528	7,549	6,168	2,191	1,219	989	205
Weekly Operating Hours									
Fewer than 40	6,863	5,934	5,900	3,259	576	Q	Q	692	Q
40 to 48	11,622	11,571	11,571	6,913	1,994	493	Q	942	238
49 to 60	15,723	15,705	15,702	10,191	3,015	1,590	658	2,034	313
61 to 84	10,334	10,312	10,312	7,468	2,089	785	347	927	Q
85 to 167	7,092	6,941	6,941	5,225	1,508	790	604	973	Q
Open Continuously	13,149	12,881	12,881	10,411	5,976	1,605	753	1,508	399
Ownership and Occupancy									
Nongovernment Owned	49,421	48,043	48,012	33,317	11,374	2,148	1,069	5,280	1,033
Owner Occupied	23,591	23,478	23,454	16,548	6,092	1,421	711	2,481	611
Nonowner Occupied	23,914	23,263	23,258	15,886	5,215	698	323	2,639	396
Unoccupied	1,916	1,301	1,299	883	Q	Q	Q	Q	Q
Government Owned	15,363	15,300	15,295	10,150	3,783	3,295	1,785	1,796	368
Federal	1,956	1,956	1,951	1,083	381	Q	247	Q	Q
State	3,808	3,786	3,786	2,438	962	1,694	1,051	Q	Q
Local	9,599	9,558	9,558	6,630	2,441	653	487	1,030	Q
Vacancy Status									
Completely Vacant	2,161	1,495	1,489	933	Q	Q	Q	Q	Q
Mostly Vacant	406	Q	Q	Q	Q	N	N	Q	N
Partially Vacant	12,382	12,201	12,199	8,446	4,346	1,483	681	1,199	274
Not At All Vacant	49,834	49,289	49,262	33,845	10,718	3,834	2,138	5,653	1,101
Energy Sources (more than one may apply)									
Electricity	63,307	63,307	63,307	43,461	15,142	5,443	2,853	7,067	1,380
Natural Gas	43,468	43,468	43,461	43,468	10,383	2,444	1,765	2,470	903
Fuel Oil	15,157	15,157	15,142	10,383	15,157	1,731	986	2,139	359
District Heat	5,443	5,443	5,443	2,444	1,731	5,443	2,311	Q	Q
District Chilled Water	2,853	2,853	2,853	1,765	986	2,311	2,853	Q	Q
Propane	7,076	7,076	7,067	2,470	2,139	Q	Q	7,076	234
Other	1,401	1,401	1,380	903	359	Q	Q	234	1,401
Energy End Uses (more than one may apply)									
Buildings with Space Heating	60,028	60,028	59,991	42,974	14,942	5,378	2,734	6,790	1,399
Buildings with Cooling	56,940	56,940	56,925	41,023	13,890	4,653	2,853	5,713	1,225
Buildings with Water Heating	56,478	56,478	56,463	41,134	14,560	4,631	2,655	6,292	1,306
Buildings with Cooking	22,237	22,237	22,237	18,656	8,987	1,926	1,274	2,673	599
Buildings with Manufacturing	3,138	3,138	3,138	2,301	1,008	Q	Q	1,044	Q
Buildings with Electricity Generation	12,821	12,821	12,821	10,402	9,867	2,121	1,272	1,454	467

Table B23. Energy Sources, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
			Energy Sources Used (more than one may apply)						
	All Buildings*	Buildings Using Any Energy Source	Elec-tricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Other [a]
All Buildings*	64,783	63,343	63,307	43,468	15,157	5,443	2,853	7,076	1,401
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	22,223	22,223	22,223	18,644	8,987	1,926	1,274	2,659	599
Activities with Large Amounts of Hot Water	19,482	19,482	19,482	16,023	7,690	2,259	1,198	2,305	633
Separate Computer Area	26,873	26,873	26,873	20,615	10,251	3,268	1,858	2,618	569

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] "Other" includes wood, coal, solar, and all other energy sources.

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B24. Energy End Uses, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					
		Energy Used For (more than one may apply)				
	All Buildings*	Space Heating	Cooling	Water Heating	Cooking	Manu-facturing
All Buildings*	4,645	3,982	3,625	3,472	801	119
Building Floorspace (Square Feet)						
1,001 to 5,000	2,552	2,100	1,841	1,715	354	Q
5,001 to 10,000	889	782	732	725	155	29
10,001 to 25,000	738	659	629	607	127	28
25,001 to 50,000	241	225	216	217	69	Q
50,001 to 100,000	129	123	118	119	50	8
100,001 to 200,000	65	62	60	60	28	3
200,001 to 500,000	25	24	23	23	14	2
Over 500,000	7	6	6	6	4	Q
Principal Building Activity						
Education	386	382	352	298	125	Q
Food Sales	226	188	210	186	84	Q
Food Service	297	282	283	297	284	Q
Health Care	129	124	129	127	12	Q
Inpatient	8	8	8	8	7	Q
Outpatient	121	116	121	119	Q	Q
Lodging	142	142	130	142	47	Q
Retail (Other Than Mall)	443	408	406	314	14	Q
Office	824	802	790	733	23	19
Public Assembly	277	258	213	227	73	Q
Public Order and Safety	71	70	61	70	14	N
Religious Worship	370	359	308	315	108	N
Service	622	515	370	418	Q	Q
Warehouse and Storage	597	316	266	243	Q	44
Other	79	67	57	55	Q	23
Vacant	182	69	52	47	Q	N
Year Constructed						
Before 1920	330	302	232	266	71	Q
1920 to 1945	527	442	382	367	87	Q
1946 to 1959	562	493	430	416	119	Q
1960 to 1969	579	524	467	444	92	17
1970 to 1979	731	648	609	582	112	28
1980 to 1989	707	618	577	531	112	14
1990 to 1999	876	719	695	642	144	19
2000 to 2003	334	236	234	224	65	Q
Census Region						
Northeast	726	672	519	600	157	30
Midwest	1,266	1,112	957	987	206	30
South	1,775	1,462	1,479	1,217	304	33
West	878	735	671	668	134	26
Climate Zone: 30-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	855	752	578	683	145	28
5,500-7,000 HDD	1,173	1,055	882	926	227	24
4,000-5,499 HDD	673	626	582	554	102	21
Fewer than 4,000 HDD	1,276	1,051	1,003	883	210	38
2,000 CDD or More and --						
Fewer than 4,000 HDD	669	498	580	426	116	Q

Table B24. Energy End Uses, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					
		Energy Used For (more than one may apply)				
	All Buildings*	Space Heating	Cooling	Water Heating	Cooking	Manu-facturing
All Buildings*	4,645	3,982	3,625	3,472	801	119
Number of Workers (main shift)						
Fewer than 5	2,653	2,080	1,746	1,653	301	48
5 to 9	778	733	725	675	152	Q
10 to 19	563	536	523	514	134	19
20 to 49	398	387	386	384	115	21
50 to 99	147	141	139	142	53	Q
100 to 249	77	76	76	75	31	3
250 or More	30	29	30	30	14	2
Weekly Operating Hours						
Fewer than 40	1,002	751	595	580	127	Q
40 to 48	1,117	1,037	951	856	72	47
49 to 60	1,062	965	883	845	141	46
61 to 84	591	535	521	506	169	8
85 to 167	400	331	338	330	174	Q
Open Continuously	475	364	338	356	117	4
Energy Sources (more than one may apply)						
Electricity	4,404	3,971	3,623	3,470	801	119
Natural Gas	2,391	2,344	2,153	2,126	564	70
Fuel Oil	451	443	298	376	115	25
District Heat	67	67	55	61	9	Q
District Chilled Water	33	32	33	31	6	Q
Propane	502	489	399	428	148	31
Other	132	132	78	95	17	Q
Energy End Uses (more than one may apply)						
Buildings with Space Heating	3,982	3,982	3,469	3,337	764	111
Buildings with Cooling	3,625	3,469	3,625	3,112	743	92
Buildings with Water Heating	3,472	3,337	3,112	3,472	787	102
Buildings with Cooking	801	764	743	787	801	9
Buildings with Manufacturing	119	111	92	102	9	119
Buildings with Electricity Generation	149	148	144	143	58	4
Energy-Related Space Functions (more than one may apply)						
Commercial Food Preparation	799	762	742	785	799	9
Activities with Large Amounts of Hot Water	567	550	516	567	322	16
Separate Computer Area	553	539	533	516	149	19

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B25. Energy End Uses, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)					
		Energy Used For (more than one may apply)				
	All Buildings*	Space Heating	Cooling	Water Heating	Cooking	Manu-facturing
All Buildings*	64,783	60,028	56,940	56,478	22,237	3,138
Building Floorspace (Square Feet)						
1,001 to 5,000	6,789	5,668	5,007	4,759	997	Q
5,001 to 10,000	6,585	5,786	5,408	5,348	1,136	214
10,001 to 25,000	11,535	10,387	9,922	9,562	1,954	472
25,001 to 50,000	8,668	8,060	7,776	7,734	2,511	Q
50,001 to 100,000	9,057	8,718	8,331	8,412	3,575	540
100,001 to 200,000	9,064	8,710	8,339	8,300	3,991	473
200,001 to 500,000	7,176	6,907	6,565	6,680	4,047	605
Over 500,000	5,908	5,792	5,591	5,683	4,025	Q
Principal Building Activity						
Education	9,874	9,755	9,200	9,481	6,402	Q
Food Sales	1,255	1,131	1,198	1,130	677	Q
Food Service	1,654	1,608	1,583	1,654	1,611	Q
Health Care	3,163	3,100	3,157	3,160	1,922	Q
Inpatient	1,905	1,905	1,899	1,905	1,819	Q
Outpatient	1,258	1,195	1,258	1,255	Q	Q
Lodging	5,096	4,994	4,841	5,096	3,184	Q
Retail (Other Than Mall)	4,317	4,075	4,079	3,459	771	Q
Office	12,208	11,929	12,032	11,804	3,077	469
Public Assembly	3,939	3,777	3,477	3,632	1,506	Q
Public Order and Safety	1,090	1,083	1,043	957	543	N
Religious Worship	3,754	3,581	3,301	3,512	1,552	N
Service	4,050	3,687	3,261	3,320	Q	Q
Warehouse and Storage	10,078	8,126	7,295	6,624	Q	1,627
Other	1,738	1,691	1,636	1,630	Q	502
Vacant	2,567	1,491	836	1,020	Q	N
Year Constructed						
Before 1920	3,769	3,667	2,891	3,353	1,362	Q
1920 to 1945	6,871	6,236	4,919	5,292	2,242	Q
1946 to 1959	7,045	6,534	6,045	5,924	3,156	Q
1960 to 1969	8,101	7,510	7,125	7,202	2,669	514
1970 to 1979	10,772	10,223	9,973	9,787	3,431	537
1980 to 1989	10,332	9,808	9,836	9,420	3,677	429
1990 to 1999	12,360	11,254	11,304	10,816	3,597	572
2000 to 2003	5,533	4,796	4,848	4,683	2,104	Q
Census Region						
Northeast	12,905	12,596	10,954	11,789	5,016	1,013
Midwest	17,080	16,331	14,484	14,928	5,850	798
South	23,489	20,998	21,553	19,913	7,881	642
West	11,310	10,102	9,950	9,848	3,489	685
Climate Zone: 30-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	10,622	10,109	8,550	9,474	3,302	855
5,500-7,000 HDD	17,335	16,720	14,524	15,160	6,369	729
4,000-5,499 HDD	11,504	11,239	10,946	10,785	4,736	772
Fewer than 4,000 HDD	15,739	13,965	13,977	13,192	4,621	608
2,000 CDD or More and --						
Fewer than 4,000 HDD	9,584	7,995	8,943	7,867	3,208	Q

Table B25. Energy End Uses, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)					
		Energy Used For (more than one may apply)				
	All Buildings*	Space Heating	Cooling	Water Heating	Cooking	Manu-facturing
All Buildings*	64,783	60,028	56,940	56,478	22,237	3,138
Number of Workers (main shift)						
Fewer than 5	15,492	12,182	9,591	9,525	1,886	288
5 to 9	6,166	5,822	5,726	5,393	1,172	Q
10 to 19	7,803	7,410	7,304	7,182	2,010	367
20 to 49	10,989	10,822	10,566	10,480	3,829	762
50 to 99	7,934	7,650	7,428	7,688	3,699	Q
100 to 249	6,871	6,766	6,806	6,815	3,515	382
250 or More	9,528	9,376	9,519	9,395	6,126	628
Weekly Operating Hours						
Fewer than 40	6,863	5,246	3,998	4,305	1,123	Q
40 to 48	11,622	10,928	10,508	9,989	2,805	566
49 to 60	15,723	14,763	13,757	13,564	4,509	1,124
61 to 84	10,334	10,012	9,691	9,477	3,438	348
85 to 167	7,092	6,680	6,708	6,635	3,039	Q
Open Continuously	13,149	12,399	12,277	12,508	7,324	619
Energy Sources (more than one may apply)						
Electricity	63,307	59,991	56,925	56,463	22,237	3,138
Natural Gas	43,468	42,974	41,023	41,134	18,656	2,301
Fuel Oil	15,157	14,942	13,890	14,560	8,987	1,008
District Heat	5,443	5,378	4,653	4,631	1,926	Q
District Chilled Water	2,853	2,734	2,853	2,655	1,274	Q
Propane	7,076	6,790	5,713	6,292	2,673	1,044
Other	1,401	1,399	1,225	1,306	599	Q
Energy End Uses (more than one may apply)						
Buildings with Space Heating	60,028	60,028	55,188	55,154	21,725	3,072
Buildings with Cooling	56,940	55,188	56,940	53,232	21,451	2,655
Buildings with Water Heating	56,478	55,154	53,232	56,478	21,914	2,987
Buildings with Cooking	22,237	21,725	21,451	21,914	22,237	623
Buildings with Manufacturing	3,138	3,072	2,655	2,987	623	3,138
Buildings with Electricity Generation	12,821	12,635	12,746	12,612	8,028	516
Energy-Related Space Functions (more than one may apply)						
Commercial Food Preparation	22,223	21,712	21,437	21,901	22,223	623
Activities with Large Amounts of Hot Water	19,482	19,186	18,820	19,482	14,761	831
Separate Computer Area	26,873	26,295	26,292	26,129	14,158	1,368

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B26. Space Heating Energy Sources, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)							
			Space-Heating Energy Sources Used (more than one may apply)					
	All Buildings*	Buildings with Space Heating	Elec-tricity	Natural Gas	Fuel Oil	District Heat	Propane	Other [a]
All Buildings*	4,645	3,982	1,766	2,165	360	65	372	113
Building Floorspace (Square Feet)								
1,001 to 5,000	2,552	2,100	888	1,013	196	Q	243	72
5,001 to 10,000	889	782	349	450	86	Q	72	Q
10,001 to 25,000	738	659	311	409	46	18	38	Q
25,001 to 50,000	241	225	114	151	11	9	11	Q
50,001 to 100,000	129	123	60	84	8	8	Q	Q
100,001 to 200,000	65	62	29	39	9	9	Q	Q
200,001 to 500,000	25	24	11	15	4	4	Q	Q
Over 500,000	7	6	3	4	1	2	Q	Q
Principal Building Activity								
Education	386	382	180	186	21	25	36	Q
Food Sales	226	188	98	79	Q	N	Q	Q
Food Service	297	282	125	171	Q	Q	31	Q
Health Care	129	124	62	68	Q	2	Q	Q
Inpatient	8	8	4	6	1	1	Q	Q
Outpatient	121	116	58	62	Q	Q	Q	N
Lodging	142	142	103	57	16	Q	Q	Q
Retail (Other Than Mall)	443	408	169	236	35	Q	40	Q
Office	824	802	380	465	46	16	36	Q
Public Assembly	277	258	83	141	37	6	Q	Q
Public Order and Safety	71	70	24	31	Q	Q	Q	Q
Religious Worship	370	359	152	208	36	Q	44	N
Service	622	515	180	266	82	Q	75	68
Warehouse and Storage	597	316	150	178	28	Q	24	Q
Other	79	67	32	41	Q	Q	Q	Q
Vacant	182	69	27	40	Q	Q	Q	Q
Year Constructed								
Before 1920	330	302	66	183	72	Q	Q	Q
1920 to 1945	527	442	142	309	48	12	Q	Q
1946 to 1959	562	493	195	280	65	13	41	Q
1960 to 1969	579	524	212	281	49	13	43	Q
1970 to 1979	731	648	293	360	46	6	48	45
1980 to 1989	707	618	352	271	36	4	74	Q
1990 to 1999	876	719	380	373	34	8	72	Q
2000 to 2003	334	236	126	107	Q	Q	47	Q
Census Region and Division								
Northeast	726	672	179	347	229	17	24	Q
New England	233	211	48	57	114	Q	Q	Q
Middle Atlantic	493	461	131	290	115	12	Q	Q
Midwest	1,266	1,112	356	774	59	13	144	36
East North Central	696	633	181	524	25	8	Q	Q
West North Central	571	479	175	250	34	Q	126	Q
South	1,775	1,462	883	630	51	20	136	Q
South Atlantic	874	746	492	264	40	13	80	Q
East South Central	348	283	134	150	Q	Q	41	Q
West South Central	553	433	257	217	Q	Q	Q	Q
West	878	735	348	413	22	15	67	Q
Mountain	299	273	96	177	Q	7	32	Q
Pacific	580	462	251	236	Q	8	Q	Q

Table B26. Space Heating Energy Sources, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)							
			Space-Heating Energy Sources Used (more than one may apply)					
	All Buildings*	Buildings with Space Heating	Elec-tricity	Natural Gas	Fuel Oil	District Heat	Propane	Other [a]
All Buildings*	4,645	3,982	1,766	2,165	360	65	372	113
Climate Zone: 30-Year Average								
Under 2,000 CDD and --								
More than 7,000 HDD	855	752	245	477	135	6	67	38
5,500-7,000 HDD	1,173	1,055	325	670	124	27	71	36
4,000-5,499 HDD	673	626	246	306	70	13	Q	Q
Fewer than 4,000 HDD	1,276	1051	553	576	27	12	96	Q
2,000 CDD or More and --								
Fewer than 4,000 HDD	669	498	396	136	Q	7	Q	Q
Number of Workers (main shift)								
Fewer than 5	2,653	2,080	874	988	239	Q	251	78
5 to 9	778	733	336	431	58	Q	51	Q
10 to 19	563	536	261	316	27	Q	40	Q
20 to 49	398	387	176	270	17	16	20	Q
50 to 99	147	141	63	98	10	7	Q	Q
100 to 249	77	76	39	46	6	9	Q	Q
250 or More	30	29	16	17	3	5	Q	Q
Weekly Operating Hours								
Fewer than 40	1,002	751	287	347	82	Q	107	Q
40 to 48	1,117	1,037	472	546	98	12	93	39
49 to 60	1,062	965	418	571	77	18	79	Q
61 to 84	591	535	234	330	42	11	32	Q
85 to 167	400	331	143	195	28	9	28	Q
Open Continuously	475	364	211	176	34	10	32	Q
Energy Sources (more than one may apply)								
Electricity	4,404	3,971	1,766	2,164	358	65	369	107
Natural Gas	2,391	2,344	671	2,165	73	24	Q	27
Fuel Oil	451	443	116	90	360	4	20	Q
District Heat	67	67	8	4	Q	65	Q	N
District Chilled Water	33	32	6	8	Q	24	Q	N
Propane	502	489	179	40	59	Q	372	Q
Other	132	132	41	35	28	Q	Q	113
Primary Space-Heating Energy Source								
Electricity	1,258	1,258	1,258	153	23	Q	41	Q
Natural Gas	1,999	1,999	386	1,999	33	Q	Q	19
Fuel Oil	282	282	30	8	282	N	Q	Q
District Heat	63	63	5	Q	Q	63	Q	N
Propane	308	308	73	N	Q	Q	308	Q
Other	72	72	Q	Q	Q	N	Q	72
Cooling Energy Sources (more than one may apply)								
Electricity	3,589	3,434	1,640	1,945	213	31	298	57
Natural Gas	17	17	9	17	Q	Q	N	Q
District Chilled Water	33	32	6	8	Q	24	Q	N

Table B26. Space Heating Energy Sources, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)							
			Space-Heating Energy Sources Used (more than one may apply)					
	All Buildings*	Buildings with Space Heating	Elec-tricity	Natural Gas	Fuel Oil	District Heat	Propane	Other [a]
All Buildings*	4,645	3,982	1,766	2,165	360	65	372	113
Water-Heating Energy Sources (more than one may apply)								
Electricity	1,910	1,815	1,066	708	164	25	211	49
Natural Gas	1,445	1,407	409	1,281	44	15	Q	14
Fuel Oil	94	87	6	Q	86	Q	Q	Q
District Heat	27	27	4	1	Q	26	Q	N
Propane	128	124	46	Q	Q	Q	100	Q
Cooking Energy Sources (more than one may apply)								
Electricity	410	392	203	220	31	4	38	Q
Natural Gas	457	439	176	352	28	7	Q	Q
Propane	108	101	40	Q	Q	Q	51	Q
Energy End Uses (more than one may apply)								
Buildings with Space Heating	3,982	3,982	1,766	2,165	360	65	372	113
Buildings with Cooling	3,625	3,469	1,643	1,956	215	53	298	59
Buildings with Water Heating	3,472	3,337	1,474	1,912	290	59	311	76
Buildings with Cooking	801	764	348	446	80	9	81	Q
Buildings with Manufacturing	119	111	51	66	Q	Q	Q	Q
Buildings with Electricity Generation	149	148	74	89	17	7	16	Q
Percent of Floorspace Heated								
Not Heated	663	N	N	N	N	N	N	N
1 to 50	523	523	275	214	57	Q	64	Q
51 to 99	498	498	229	294	48	5	41	Q
100	2,962	2,962	1,261	1,658	254	59	266	89
Heating Equipment (more than one may apply)								
Heat Pumps	476	476	466	124	6	2	28	Q
Packaged Heat Pumps	278	278	268	71	Q	Q	Q	N
Split-System Heat Pumps	166	166	166	43	Q	Q	Q	Q
Individual Room Heat Pumps	58	58	57	22	Q	Q	Q	Q
Furnaces	1,864	1,864	554	1,273	188	Q	212	65
Individual Space Heaters	819	819	604	399	79	4	122	40
District Heat	65	65	6	4	Q	65	Q	N
Boilers	579	579	161	397	144	Q	30	18
Packaged Heating Units	953	953	572	529	17	3	79	Q
Other	205	205	116	80	36	Q	40	47

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] "Other" includes wood, coal, solar, and all other energy sources.

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B27. Space Heating Energy Sources, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)							
			Space-Heating Energy Sources Used (more than one may apply)					
	All Buildings*	Buildings with Space Heating	Elec-tricity	Natural Gas	Fuel Oil	District Heat	Propane	Other [a]
All Buildings*	64,783	60,028	28,600	36,959	5,988	5,198	3,204	842
Building Floorspace (Square Feet)								
1,001 to 5,000	6,789	5,668	2,367	2,829	557	Q	665	183
5,001 to 10,000	6,585	5,786	2,560	3,358	626	Q	529	Q
10,001 to 25,000	11,535	10,387	4,872	6,407	730	289	597	Q
25,001 to 50,000	8,668	8,060	4,040	5,394	436	325	392	Q
50,001 to 100,000	9,057	8,718	4,243	5,932	594	560	Q	Q
100,001 to 200,000	9,064	8,710	3,962	5,261	1,271	1,386	Q	Q
200,001 to 500,000	7,176	6,907	3,230	4,537	984	1,010	Q	Q
Over 500,000	5,908	5,792	3,326	3,241	789	1,528	Q	Q
Principal Building Activity								
Education	9,874	9,755	4,047	5,700	1,240	1,117	446	Q
Food Sales	1,255	1,131	497	633	Q	N	Q	Q
Food Service	1,654	1,608	737	1,070	Q	Q	147	Q
Health Care	3,163	3,100	1,479	2,184	546	414	Q	Q
Inpatient	1,905	1,905	877	1,490	501	357	Q	Q
Outpatient	1,258	1,195	602	694	Q	Q	Q	N
Lodging	5,096	4,994	3,230	2,918	795	Q	Q	Q
Retail (Other Than Mall)	4,317	4,075	1,941	2,719	236	Q	224	Q
Office	12,208	11,929	6,400	6,637	672	1,526	211	Q
Public Assembly	3,939	3,777	1,202	2,132	Q	547	Q	Q
Public Order and Safety	1,090	1,083	408	559	Q	Q	Q	Q
Religious Worship	3,754	3,581	1,759	2,450	397	Q	249	N
Service	4,050	3,687	1,483	2,411	493	Q	422	398
Warehouse and Storage	10,078	8,126	4,141	5,351	591	Q	Q	Q
Other	1,738	1,691	762	1,145	Q	Q	Q	Q
Vacant	2,567	1,491	514	1,050	Q	Q	Q	Q
Year Constructed								
Before 1920	3,769	3,667	1,044	2,528	806	Q	Q	Q
1920 to 1945	6,871	6,236	2,070	3,747	1,499	1,203	Q	Q
1946 to 1959	7,045	6,534	2,656	3,776	1,162	661	479	Q
1960 to 1969	8,101	7,510	2,924	4,992	795	818	385	Q
1970 to 1979	10,772	10,223	5,072	6,800	805	573	452	318
1980 to 1989	10,332	9,808	5,822	5,289	294	780	402	Q
1990 to 1999	12,360	11,254	5,998	6,863	493	691	620	Q
2000 to 2003	5,533	4,796	3,016	2,965	Q	Q	373	Q
Census Region and Division								
Northeast	12,905	12,596	4,405	7,238	3,927	1,260	743	Q
New England	2,964	2,819	1,132	1,198	1,219	Q	Q	Q
Middle Atlantic	9,941	9,778	3,273	6,041	2,708	1,015	Q	Q
Midwest	17,080	16,331	6,223	12,180	916	1,640	806	272
East North Central	11,595	11,223	3,895	8,758	456	1,420	Q	Q
West North Central	5,485	5,108	2,328	3,422	460	Q	695	Q
South	23,489	20,998	13,058	10,693	897	1,683	1,195	Q
South Atlantic	12,258	11,012	7,347	4,852	627	1,173	908	Q
East South Central	3,393	3,056	1,411	2,110	Q	Q	Q	Q
West South Central	7,837	6,929	4,300	3,731	Q	Q	Q	Q
West	11,310	10,102	4,914	6,848	247	615	459	Q
Mountain	3,675	3,525	1,389	2,547	Q	253	245	Q
Pacific	7,635	6,577	3,526	4,301	Q	362	Q	Q

Table B27. Space Heating Energy Sources, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)							
			Space-Heating Energy Sources Used (more than one may apply)					
	All Buildings*	Buildings with Space Heating	Elec-tricity	Natural Gas	Fuel Oil	District Heat	Propane	Other [a]
All Buildings*	64,783	60,028	28,600	36,959	5,988	5,198	3,204	842
Climate Zone: 30-Year Average								
Under 2,000 CDD and --								
More than 7,000 HDD	10,622	10,109	3,945	7,142	1,516	818	849	339
5,500-7,000 HDD	17,335	16,720	6,180	11,538	1,616	1,749	650	208
4,000-5,499 HDD	11,504	11,239	5,080	6,236	2,295	1,281	Q	Q
Fewer than 4,000 HDD	15,739	13,965	7,343	9,362	385	918	755	Q
2,000 CDD or More and --								
Fewer than 4,000 HDD	9,584	7,995	6,052	2,679	Q	432	Q	Q
Number of Workers (main shift)								
Fewer than 5	15,492	12,182	4,980	6,340	1,317	Q	1,108	295
5 to 9	6,166	5,822	2,612	3,730	465	Q	375	Q
10 to 19	7,803	7,410	3,700	4,274	810	Q	417	Q
20 to 49	10,989	10,822	4,936	7,290	748	653	511	Q
50 to 99	7,934	7,650	3,705	5,368	921	460	Q	Q
100 to 249	6,871	6,766	3,555	4,562	689	984	Q	Q
250 or More	9,528	9,376	5,111	5,395	1,037	2,084	Q	Q
Weekly Operating Hours								
Fewer than 40	6,863	5,246	2,167	2,995	430	Q	459	Q
40 to 48	11,622	10,928	5,059	6,128	1,175	493	650	185
49 to 60	15,723	14,763	7,157	8,731	1,152	1,576	966	Q
61 to 84	10,334	10,012	4,626	6,658	982	772	333	Q
85 to 167	7,092	6,680	2,827	4,370	527	790	282	Q
Open Continuously	13,149	12,399	6,764	8,077	1,722	1,388	514	Q
Energy Sources (more than one may apply)								
Electricity	63,307	59,991	28,600	36,952	5,973	5,198	3,194	821
Natural Gas	43,468	42,974	17,056	36,959	3,372	2,323	Q	467
Fuel Oil	15,157	14,942	6,994	7,299	5,988	1,596	877	Q
District Heat	5,443	5,378	1,205	565	Q	5,198	Q	N
District Chilled Water	2,853	2,734	637	605	Q	2,231	Q	N
Propane	7,076	6,790	3,339	2,034	1,091	Q	3,204	Q
Other	1,401	1,399	495	870	216	Q	Q	842
Primary Space-Heating Energy Source								
Electricity	15,996	15,996	15,996	3,278	361	Q	472	Q
Natural Gas	32,970	32,970	10,265	32,970	1,645	Q	Q	318
Fuel Oil	3,818	3,818	645	320	3,818	N	Q	Q
District Heat	4,907	4,907	992	Q	Q	4,907	Q	N
Propane	1,955	1,955	632	N	Q	Q	1,955	Q
Other	382	382	Q	Q	Q	N	Q	382
Cooling Energy Sources (more than one may apply)								
Electricity	54,321	52,584	27,212	33,906	4,634	2,467	2,488	652
Natural Gas	1,018	1,018	477	1,006	Q	Q	N	Q
District Chilled Water	2,853	2,734	637	605	Q	2,231	Q	N

Table B27. Space Heating Energy Sources, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)							
			Space-Heating Energy Sources Used (more than one may apply)					
	All Buildings*	Buildings with Space Heating	Elec-tricity	Natural Gas	Fuel Oil	District Heat	Propane	Other [a]
All Buildings*	64,783	60,028	28,600	36,959	5,988	5,198	3,204	842
Water-Heating Energy Sources (more than one may apply)								
Electricity	27,490	26,527	16,579	12,487	2,328	1,618	1,950	421
Natural Gas	28,820	28,544	11,286	25,279	2,401	936	Q	264
Fuel Oil	1,880	1,797	283	342	1,696	Q	Q	Q
District Heat	3,088	3,023	832	390	Q	2,860	Q	N
Propane	1,422	1,376	625	Q	Q	Q	971	Q
Cooking Energy Sources (more than one may apply)								
Electricity	13,161	12,942	7,219	8,082	1,384	1,193	570	Q
Natural Gas	15,438	15,125	7,194	11,256	2,296	1,212	Q	Q
Propane	1,460	1,335	569	Q	471	Q	569	Q
Energy End Uses (more than one may apply)								
Buildings with Space Heating	60,028	60,028	28,600	36,959	5,988	5,198	3,204	842
Buildings with Cooling	56,940	55,188	27,509	34,725	4,804	4,408	2,499	667
Buildings with Water Heating	56,478	55,154	26,529	34,755	5,589	4,386	2,985	747
Buildings with Cooking	22,237	21,725	10,845	14,066	3,197	1,768	1,044	Q
Buildings with Manufacturing	3,138	3,072	1,762	2,214	Q	Q	Q	Q
Buildings with Electricity Generation	12,821	12,635	6,587	8,070	1,231	1,985	629	Q
Percent of Floorspace Heated								
Not Heated	4,756	N	N	N	N	N	N	N
1 to 50	6,850	6,850	4,077	3,685	772	Q	587	Q
51 to 99	8,107	8,107	4,355	5,077	846	631	344	Q
100	45,071	45,071	20,168	28,197	4,370	4,541	2,272	679
Heating Equipment (more than one may apply)								
Heat Pumps	8,814	8,814	8,688	4,643	295	413	516	Q
Packaged Heat Pumps	5,442	5,442	5,350	2,845	Q	Q	Q	N
Split-System Heat Pumps	2,581	2,581	2,581	1,261	Q	Q	Q	Q
Individual Room Heat Pumps	2,691	2,691	2,657	1,723	Q	Q	Q	Q
Furnaces	19,615	19,615	8,653	14,562	1,827	Q	1,946	435
Individual Space Heaters	12,545	12,545	9,838	7,947	1,438	560	1,178	317
District Heat	5,166	5,166	1,088	486	Q	5,166	Q	N
Boilers	20,423	20,423	7,766	16,417	4,355	Q	761	286
Packaged Heating Units	18,021	18,021	11,947	12,283	593	528	833	Q
Other	3,262	3,262	2,139	1,524	265	Q	443	384

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] "Other" includes wood, coal, solar, and all other energy sources.

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B28. Primary Space-Heating Energy Sources, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					
			Primary Space-Heating Energy Source Used [a]			
	All Buildings*	Buildings with Space Heating	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	3,982	1,258	1,999	282	63
Building Floorspace (Square Feet)						
1,001 to 5,000	2,552	2,100	699	955	171	Q
5,001 to 10,000	889	782	233	409	58	Q
10,001 to 25,000	738	659	211	372	32	Q
25,001 to 50,000	241	225	63	140	8	9
50,001 to 100,000	129	123	32	73	6	8
100,001 to 200,000	65	62	15	33	Q	9
200,001 to 500,000	25	24	5	13	Q	4
Over 500,000	7	6	1	3	Q	2
Principal Building Activity						
Education	386	382	141	172	14	24
Food Sales	226	188	94	68	Q	N
Food Service	297	282	94	149	Q	Q
Health Care	129	124	49	65	Q	1
Inpatient	8	8	Q	6	Q	0
Outpatient	121	116	48	59	Q	Q
Lodging	142	142	78	34	Q	Q
Retail (Other Than Mall)	443	408	115	223	Q	Q
Office	824	802	279	435	40	16
Public Assembly	277	258	62	129	37	6
Public Order and Safety	71	70	Q	31	Q	Q
Religious Worship	370	359	93	198	31	Q
Service	622	515	103	249	50	Q
Warehouse and Storage	597	316	103	168	Q	Q
Other	79	67	Q	40	Q	Q
Vacant	182	69	Q	39	Q	Q
Year Constructed						
Before 1920	330	302	24	177	66	Q
1920 to 1945	527	442	80	291	41	12
1946 to 1959	562	493	126	268	48	13
1960 to 1969	579	524	157	266	38	13
1970 to 1979	731	648	219	324	36	6
1980 to 1989	707	618	276	244	Q	4
1990 to 1999	876	719	288	333	Q	7
2000 to 2003	334	236	89	97	Q	Q
Census Region and Division						
Northeast	726	672	90	324	212	17
New England	233	211	Q	56	113	Q
Middle Atlantic	493	461	71	268	98	11
Midwest	1,266	1,112	179	738	36	13
East North Central	696	633	87	501	Q	7
West North Central	571	479	92	238	Q	Q
South	1,775	1,462	729	566	21	19
South Atlantic	874	746	406	234	Q	13
East South Central	348	283	103	133	Q	Q
West South Central	553	433	220	199	N	Q
West	878	735	261	371	Q	15
Mountain	299	273	65	162	Q	Q
Pacific	580	462	196	209	Q	8

Table B28. Primary Space-Heating Energy Sources, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					
			Primary Space-Heating Energy Source Used [a]			
	All Buildings*	Buildings with Space Heating	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	3,982	1,258	1,999	282	63
Climate Zone: 30-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	855	752	115	448	112	6
5,500-7,000 HDD	1,173	1,055	196	640	109	27
4,000-5,499 HDD	673	626	142	291	48	13
Fewer than 4,000 HDD	1,276	1051	433	508	Q	11
2,000 CDD or More and --						
Fewer than 4,000 HDD	669	498	372	112	Q	6
Number of Workers (main shift)						
Fewer than 5	2,653	2,080	674	918	190	Q
5 to 9	778	733	236	404	47	Q
10 to 19	563	536	180	291	24	Q
20 to 49	398	387	101	244	Q	15
50 to 99	147	141	38	87	6	7
100 to 249	77	76	22	39	Q	9
250 or More	30	29	8	15	Q	5
Weekly Operating Hours						
Fewer than 40	1,002	751	227	333	65	Q
40 to 48	1,117	1,037	340	506	80	11
49 to 60	1,062	965	274	541	54	18
61 to 84	591	535	160	304	36	11
85 to 167	400	331	103	171	20	9
Open Continuously	475	364	154	144	27	9
Energy Sources (more than one may apply)						
Electricity	4,404	3,971	1,258	1,998	282	63
Natural Gas	2,391	2,344	281	1,999	38	24
Fuel Oil	451	443	51	77	282	4
District Heat	67	67	Q	Q	N	63
District Chilled Water	33	32	Q	5	Q	23
Propane	502	489	78	39	49	Q
Other	132	132	Q	29	Q	Q
Energy End Uses (more than one may apply)						
Buildings with Space Heating	3,982	3,982	1,258	1,999	282	63
Buildings with Cooling	3,625	3,469	1,188	1,794	161	52
Buildings with Water Heating	3,472	3,337	999	1,765	226	57
Buildings with Cooking	801	764	223	397	68	8
Buildings with Manufacturing	119	111	25	62	Q	Q
Buildings with Electricity Generation	149	148	40	78	10	6
Percent of Floorspace Heated						
Not Heated	663	N	N	N	N	N
1 to 50	523	523	222	192	42	Q
51 to 99	498	498	146	272	41	5
100	2,962	2,962	891	1,534	199	57

Table B28. Primary Space-Heating Energy Sources, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					
			Primary Space-Heating Energy Source Used [a]			
	All Buildings*	Buildings with Space Heating	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	3,982	1,258	1,999	282	63
Heating Equipment (more than one may apply)						
Heat Pumps	476	476	371	85	Q	1
Packaged Heat Pumps	278	278	220	51	Q	Q
Split-System Heat Pumps	166	166	128	27	N	Q
Individual Room Heat Pumps	58	58	42	14	Q	Q
Furnaces	1,864	1,864	296	1,212	145	Q
Individual Space Heaters	819	819	305	361	39	4
District Heat	65	65	Q	Q	N	63
Boilers	579	579	58	373	121	Q
Packaged Heating Units	953	953	427	456	Q	2
Other	205	205	60	69	Q	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] Additionally, 308,000 buildings used propane; 72,000 used wood, coal or some other energy source; and no responding buildings in the sample used solar as a primary space-heating energy source.

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B29. Primary Space-Heating Energy Sources, Total Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)					
			Primary Space-Heating Energy Source Used [a]			
	All Buildings*	Buildings with Space Heating	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	64,783	60,028	15,996	32,970	3,818	4,907
Building Floorspace (Square Feet)						
1,001 to 5,000	6,789	5,668	1,779	2,672	484	Q
5,001 to 10,000	6,585	5,786	1,686	3,068	428	Q
10,001 to 25,000	11,535	10,387	3,366	5,807	536	Q
25,001 to 50,000	8,668	8,060	2,264	4,974	300	325
50,001 to 100,000	9,057	8,718	2,245	5,147	431	516
100,001 to 200,000	9,064	8,710	2,011	4,489	Q	1,340
200,001 to 500,000	7,176	6,907	1,380	3,933	Q	1,003
Over 500,000	5,908	5,792	1,265	2,880	Q	1,352
Principal Building Activity						
Education	9,874	9,755	2,495	5,191	803	970
Food Sales	1,255	1,131	437	568	Q	N
Food Service	1,654	1,608	436	957	Q	Q
Health Care	3,163	3,100	592	1,972	Q	388
Inpatient	1,905	1,905	Q	1,388	Q	331
Outpatient	1,258	1,195	491	583	Q	Q
Lodging	5,096	4,994	2,122	2,040	Q	Q
Retail (Other Than Mall)	4,317	4,075	1,199	2,470	Q	Q
Office	12,208	11,929	3,995	6,046	301	1,448
Public Assembly	3,939	3,777	672	1,813	Q	547
Public Order and Safety	1,090	1,083	Q	537	Q	Q
Religious Worship	3,754	3,581	796	2,305	306	Q
Service	4,050	3,687	519	2,286	340	Q
Warehouse and Storage	10,078	8,126	2,257	4,736	Q	Q
Other	1,738	1,691	Q	1,064	Q	Q
Vacant	2,567	1,491	Q	987	Q	Q
Year Constructed						
Before 1920	3,769	3,667	355	2,304	564	Q
1920 to 1945	6,871	6,236	390	3,580	1,125	1,072
1946 to 1959	7,045	6,534	1,142	3,546	894	661
1960 to 1969	8,101	7,510	1,455	4,564	420	783
1970 to 1979	10,772	10,223	2,830	6,037	415	557
1980 to 1989	10,332	9,808	4,131	4,547	Q	704
1990 to 1999	12,360	11,254	3,892	5,933	Q	680
2000 to 2003	5,533	4,796	1,802	2,457	Q	Q
Census Region and Division						
Northeast	12,905	12,596	1,253	6,439	3,250	1,205
New England	2,964	2,819	Q	1,061	1,161	Q
Middle Atlantic	9,941	9,778	1,127	5,377	2,089	970
Midwest	17,080	16,331	2,545	11,321	229	1,531
East North Central	11,595	11,223	1,487	8,230	Q	1,319
West North Central	5,485	5,108	1,058	3,091	Q	Q
South	23,489	20,998	9,084	9,299	232	1,614
South Atlantic	12,258	11,012	4,968	4,175	Q	1,149
East South Central	3,393	3,056	791	1,817	Q	Q
West South Central	7,837	6,929	3,325	3,308	N	Q
West	11,310	10,102	3,114	5,911	Q	557
Mountain	3,675	3,525	789	2,277	Q	Q
Pacific	7,635	6,577	2,325	3,633	Q	362

Table B29. Primary Space-Heating Energy Sources, Total Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)					
			Primary Space-Heating Energy Source Used [a]			
	All Buildings*	Buildings with Space Heating	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	64,783	60,028	15,996	32,970	3,818	4,907
Climate Zone: 30-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	10,622	10,109	1,375	6,515	962	752
5,500-7,000 HDD	17,335	16,720	2,603	10,640	1,211	1,638
4,000-5,499 HDD	11,504	11,239	2,210	5,617	1,557	1,231
Fewer than 4,000 HDD	15,739	13,965	4,580	7,965	Q	883
2,000 CDD or More and --						
Fewer than 4,000 HDD	9,584	7,995	5,228	2,233	Q	Q
Number of Workers (main shift)						
Fewer than 5	15,492	12,182	3,385	5,890	987	Q
5 to 9	6,166	5,822	1,736	3,426	328	Q
10 to 19	7,803	7,410	2,430	3,833	Q	Q
20 to 49	10,989	10,822	2,602	6,556	Q	611
50 to 99	7,934	7,650	1,834	4,614	593	460
100 to 249	6,871	6,766	1,692	3,748	Q	975
250 or More	9,528	9,376	2,318	4,903	Q	1,895
Weekly Operating Hours						
Fewer than 40	6,863	5,246	1,424	2,848	302	Q
40 to 48	11,622	10,928	3,348	5,578	1,006	486
49 to 60	15,723	14,763	3,940	8,015	708	1,566
61 to 84	10,334	10,012	2,746	5,801	651	572
85 to 167	7,092	6,680	1,266	3,960	359	790
Open Continuously	13,149	12,399	3,273	6,768	793	1,315
Energy Sources (more than one may apply)						
Electricity	63,307	59,991	15,996	32,963	3,818	4,907
Natural Gas	43,468	42,974	6,162	32,970	1,588	2,117
Fuel Oil	15,157	14,942	3,079	6,258	3,818	1,490
District Heat	5,443	5,378	Q	Q	N	4,907
District Chilled Water	2,853	2,734	Q	339	Q	2,165
Propane	7,076	6,790	1,323	1,947	930	Q
Other	1,401	1,399	Q	713	Q	Q
Energy End Uses (more than one may apply)						
Buildings with Space Heating	60,028	60,028	15,996	32,970	3,818	4,907
Buildings with Cooling	56,940	55,188	15,562	30,808	2,836	4,147
Buildings with Water Heating	56,478	55,154	14,429	31,026	3,539	4,095
Buildings with Cooking	22,237	21,725	5,109	12,430	1,892	1,623
Buildings with Manufacturing	3,138	3,072	515	1,954	Q	Q
Buildings with Electricity Generation	12,821	12,635	3,131	7,077	316	1,817
Percent of Floorspace Heated						
Not Heated	4,756	N	N	N	N	N
1 to 50	6,850	6,850	2,890	3,029	565	Q
51 to 99	8,107	8,107	2,164	4,707	459	574
100	45,071	45,071	10,943	25,233	2,793	4,307

Table B29. Primary Space-Heating Energy Sources, Total Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)					
			Primary Space-Heating Energy Source Used [a]			
	All Buildings*	Buildings with Space Heating	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	64,783	60,028	15,996	32,970	3,818	4,907
Heating Equipment (more than one may apply)						
Heat Pumps	8,814	8,814	4,812	3,430	Q	388
Packaged Heat Pumps	5,442	5,442	3,056	2,092	Q	Q
Split-System Heat Pumps	2,581	2,581	1,343	1,014	N	Q
Individual Room Heat Pumps	2,691	2,691	1,286	1,173	Q	Q
Furnaces	19,615	19,615	3,655	13,476	1,153	Q
Individual Space Heaters	12,545	12,545	3,736	6,907	739	533
District Heat	5,166	5,166	Q	Q	N	4,875
Boilers	20,423	20,423	2,115	15,138	2,714	Q
Packaged Heating Units	18,021	18,021	6,767	10,115	Q	466
Other	3,262	3,262	1,286	1,275	Q	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] Additionally, buildings comprising 1,955 million square feet used propane; buildings comprising 382 million square feet used wood, coal or some other energy source; and no responding buildings in the sample used solar as a primary space-heating energy source.

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B30. Cooling Energy Sources, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
			Cooling Energy Sources (more than one may apply)					Cooling Energy Sources (more than one may apply)		
	All Buildings*	Buildings with Cooling	Electricity	Natural Gas	District Chilled Water	All Buildings*	Buildings with Cooling	Electricity	Natural Gas	District Chilled Water
All Buildings*	4,645	3,625	3,589	17	33	64,783	56,940	54,321	1,018	2,853
Building Floorspace (Square Feet)										
1,001 to 5,000	2,552	1,841	1,838	Q	Q	6,789	5,007	4,994	Q	Q
5,001 to 10,000	889	732	727	Q	Q	6,585	5,408	5,367	Q	Q
10,001 to 25,000	738	629	618	Q	Q	11,535	9,922	9,743	Q	Q
25,001 to 50,000	241	216	211	Q	6	8,668	7,776	7,557	Q	240
50,001 to 100,000	129	118	114	Q	5	9,057	8,331	8,086	Q	332
100,001 to 200,000	65	60	55	Q	6	9,064	8,339	7,657	Q	793
200,001 to 500,000	25	23	21	Q	2	7,176	6,565	6,112	Q	495
Over 500,000	7	6	5	Q	1	5,908	5,591	4,806	Q	822
Principal Building Activity										
Education	386	352	339	Q	14	9,874	9,200	8,406	Q	768
Food Sales	226	210	208	N	N	1,255	1,198	1,183	N	N
Food Service	297	283	283	Q	Q	1,654	1,583	1,570	Q	Q
Health Care	129	129	128	0	1	3,163	3,157	2,972	215	297
Inpatient	8	8	8	0	1	1,905	1,899	1,735	204	279
Outpatient	121	121	121	Q	Q	1,258	1,258	1,237	Q	Q
Lodging	142	130	129	Q	Q	5,096	4,841	4,746	Q	Q
Retail (Other Than Mall)	443	406	405	Q	Q	4,317	4,079	4,040	Q	Q
Office	824	790	781	Q	9	12,208	12,032	11,192	Q	730
Public Assembly	277	213	210	Q	3	3,939	3,477	3,113	Q	458
Public Order and Safety	71	61	60	Q	Q	1,090	1,043	925	Q	Q
Religious Worship	370	308	308	Q	Q	3,754	3,301	3,301	Q	Q
Service	622	370	370	Q	N	4,050	3,261	3,261	Q	N
Warehouse and Storage	597	266	261	Q	Q	10,078	7,295	7,196	Q	Q
Other	79	57	56	Q	Q	1,738	1,636	1,577	Q	Q
Vacant	182	52	52	N	Q	2,567	836	836	N	Q
Year Constructed										
Before 1920	330	232	230	Q	Q	3,769	2,891	2,859	Q	Q
1920 to 1945	527	382	379	Q	Q	6,871	4,919	4,676	Q	Q
1946 to 1959	562	430	426	Q	4	7,045	6,045	5,727	Q	359
1960 to 1969	579	467	458	Q	4	8,101	7,125	6,737	Q	446
1970 to 1979	731	609	607	Q	5	10,772	9,973	9,715	Q	456
1980 to 1989	707	577	572	Q	5	10,332	9,836	9,392	Q	531
1990 to 1999	876	695	685	Q	8	12,360	11,304	10,528	Q	804
2000 to 2003	334	234	232	Q	Q	5,533	4,848	4,687	Q	Q
Census Region and Division										
Northeast	726	519	512	7	6	12,905	10,954	10,402	353	620
New England	233	130	130	Q	Q	2,964	2,021	1,946	Q	Q
Middle Atlantic	493	388	382	Q	6	9,941	8,932	8,456	Q	583
Midwest	1,266	957	951	Q	4	17,080	14,484	13,781	Q	596
East North Central	696	550	544	Q	3	11,595	9,790	9,157	Q	569
West North Central	571	408	407	Q	Q	5,485	4,694	4,625	Q	Q
South	1,775	1,479	1,467	Q	14	23,489	21,553	20,623	Q	1,150
South Atlantic	874	761	754	Q	9	12,258	11,474	10,969	Q	667
East South Central	348	262	260	Q	Q	3,393	2,985	2,820	Q	Q
West South Central	553	456	454	Q	3	7,837	7,094	6,834	Q	284
West	878	671	659	Q	9	11,310	9,950	9,515	Q	487
Mountain	299	237	235	Q	Q	3,675	3,267	3,186	Q	Q
Pacific	580	434	424	Q	6	7,635	6,683	6,328	Q	300

Table B30. Cooling Energy Sources, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
			Cooling Energy Sources (more than one may apply)					Cooling Energy Sources (more than one may apply)		
	All Buildings*	Buildings with Cooling	Electricity	Natural Gas	District Chilled Water	All Buildings*	Buildings with Cooling	Electricity	Natural Gas	District Chilled Water
All Buildings*	4,645	3,625	3,589	17	33	64,783	56,940	54,321	1,018	2,853
Climate Zone: 30-Year Average										
Under 2,000 CDD and --										
More than 7,000 HDD	855	578	575	Q	3	10,622	8,550	8,205	Q	350
5,500-7,000 HDD	1,173	882	871	7	4	17,335	14,524	13,843	355	698
4,000-5,499 HDD	673	582	574	Q	7	11,504	10,946	10,319	Q	514
Fewer than 4,000 HDD	1,276	1003	996	Q	10	15,739	13,977	13,508	Q	659
2,000 CDD or More and --										
Fewer than 4,000 HDD	669	580	573	Q	9	9,584	8,943	8,446	Q	633
Number of Workers (main shift)										
Fewer than 5	2,653	1,746	1,738	Q	Q	15,492	9,591	9,528	Q	Q
5 to 9	778	725	724	Q	Q	6,166	5,726	5,630	Q	Q
10 to 19	563	523	520	Q	Q	7,803	7,304	7,234	Q	Q
20 to 49	398	386	377	Q	6	10,989	10,566	10,211	Q	327
50 to 99	147	139	132	Q	7	7,934	7,428	6,988	Q	505
100 to 249	77	76	71	Q	6	6,871	6,806	6,377	Q	583
250 or More	30	30	27	1	4	9,528	9,519	8,352	373	1,219
Weekly Operating Hours										
Fewer than 40	1,002	595	590	Q	Q	6,863	3,998	3,954	Q	Q
40 to 48	1,117	951	948	Q	Q	11,622	10,508	10,328	Q	Q
49 to 60	1,062	883	869	Q	6	15,723	13,757	13,048	Q	658
61 to 84	591	521	516	Q	6	10,334	9,691	9,274	Q	347
85 to 167	400	338	330	Q	7	7,092	6,708	6,151	Q	604
Open Continuously	475	338	335	2	4	13,149	12,277	11,567	499	753
Energy Sources (more than one may apply)										
Electricity	4,404	3,623	3,589	17	33	63,307	56,925	54,321	1,018	2,853
Natural Gas	2,391	2,153	2,133	17	17	43,468	41,023	39,286	1,018	1,765
Fuel Oil	451	298	294	2	3	15,157	13,890	13,036	488	986
District Heat	67	55	32	Q	25	5,443	4,653	2,674	Q	2,311
District Chilled Water	33	33	9	Q	33	2,853	2,853	924	Q	2,853
Propane	502	399	399	Q	Q	7,076	5,713	5,666	Q	Q
Other	132	78	72	Q	Q	1,401	1,225	1,130	Q	Q
Primary Space-Heating Energy Source										
Electricity	1,258	1,188	1,186	Q	Q	15,996	15,562	15,442	Q	Q
Natural Gas	1,999	1,794	1,783	16	5	32,970	30,808	30,167	918	339
Fuel Oil	282	161	161	Q	Q	3,818	2,836	2,813	Q	Q
District Heat	63	52	30	Q	23	4,907	4,147	2,353	Q	2,165
Propane	308	245	244	N	Q	1,955	1,553	1,542	N	Q
Other	72	31	29	N	N	382	282	267	N	N
Water-Heating Energy Sources (more than one may apply)										
Electricity	1,910	1,708	1,701	Q	9	27,490	26,028	25,459	Q	745
Natural Gas	1,445	1,326	1,312	10	14	28,820	27,379	26,280	937	1,023
Fuel Oil	94	62	60	Q	Q	1,880	1,591	1,569	Q	Q
District Heat	27	25	15	Q	10	3,088	2,987	1,852	Q	1,205
Propane	128	109	109	N	Q	1,422	1,252	1,241	N	Q

Table B30. Cooling Energy Sources, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
			Cooling Energy Sources (more than one may apply)					Cooling Energy Sources (more than one may apply)		
	All Buildings*	Buildings with Cooling	Electricity	Natural Gas	District Chilled Water	All Buildings*	Buildings with Cooling	Electricity	Natural Gas	District Chilled Water
All Buildings*	4,645	3,625	3,589	17	33	64,783	56,940	54,321	1,018	2,853
Cooking Energy Sources (more than one may apply)										
Electricity	410	378	374	5	4	13,161	12,695	12,058	460	936
Natural Gas	457	444	441	5	3	15,438	15,127	14,299	634	900
Propane	108	85	85	N	Q	1,460	1,263	1,249	N	Q
Energy End Uses (more than one may apply)										
Buildings with Space Heating	3,982	3,469	3,434	17	32	60,028	55,188	52,584	1,018	2,734
Buildings with Cooling	3,625	3,625	3,589	17	33	56,940	56,940	54,321	1,018	2,853
Buildings with Water Heating	3,472	3,112	3,080	15	31	56,478	53,232	50,669	1,007	2,655
Buildings with Cooking	801	743	738	7	6	22,237	21,451	20,333	767	1,274
Buildings with Manufacturing	119	92	91	Q	Q	3,138	2,655	2,627	Q	Q
Buildings with Electricity Generation	149	144	140	2	5	12,821	12,746	11,541	456	1,272
Percent of Floorspace Cooled										
Not Cooled	1,020	N	N	N	N	7,843	N	N	N	N
1 to 50	985	985	978	Q	Q	16,598	16,598	16,465	Q	Q
51 to 99	629	629	625	2	5	13,211	13,211	12,327	360	829
100	2,011	2,011	1,986	11	27	27,132	27,132	25,529	541	1,985
Cooling Equipment (more than one may apply)										
Residential-Type Central Air Conditioners	1,006	1,006	1,005	Q	Q	11,035	11,035	10,946	Q	Q
Heat Pumps	492	492	492	8	1	9,041	9,041	9,030	325	251
Packaged Heat Pumps	288	288	287	Q	Q	5,426	5,426	5,415	Q	Q
Split-System Heat Pumps	174	174	174	Q	Q	2,606	2,606	2,606	Q	Q
Individual Room Heat Pumps	58	58	58	Q	Q	2,940	2,940	2,940	Q	Q
Individual Air Conditioners	742	742	742	Q	2	12,558	12,558	12,558	Q	439
District Chilled Water	33	33	9	Q	33	2,853	2,853	924	Q	2,853
Central Chillers	111	111	106	5	Q	11,636	11,636	11,054	782	Q
Packaged Air Conditioning Units	1,613	1,613	1,612	4	4	29,969	29,969	29,756	554	511
Swamp Coolers	122	122	122	Q	Q	1,561	1,561	1,561	Q	Q
Other	40	40	30	Q	Q	1,232	1,232	1,091	Q	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B31. Water-Heating Energy Sources, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)						
			Water-Heating Energy Sources Used (more than one may apply)				
	All Buildings*	Buildings with Water Heating	Elec-tricity	Natural Gas	Fuel Oil	District Heat	Propane
All Buildings*	4,645	3,472	1,910	1,445	94	27	128
Building Floorspace (Square Feet)							
1,001 to 5,000	2,552	1,715	1,020	617	41	N	66
5,001 to 10,000	889	725	386	307	Q	Q	27
10,001 to 25,000	738	607	301	285	16	Q	27
25,001 to 50,000	241	217	110	114	Q	Q	Q
50,001 to 100,000	129	119	53	70	Q	5	Q
100,001 to 200,000	65	60	27	35	Q	5	Q
200,001 to 500,000	25	23	9	14	Q	2	Q
Over 500,000	7	6	3	3	Q	1	N
Principal Building Activity							
Education	386	298	144	149	10	6	15
Food Sales	226	186	109	68	Q	N	Q
Food Service	297	297	101	176	Q	Q	Q
Health Care	129	127	72	56	1	1	Q
Inpatient	8	8	1	6	0	1	Q
Outpatient	121	119	70	50	Q	Q	N
Lodging	142	142	45	74	14	Q	18
Retail (Other Than Mall)	443	314	189	118	Q	N	Q
Office	824	733	443	273	Q	10	Q
Public Assembly	277	227	128	81	Q	3	Q
Public Order and Safety	71	70	32	24	Q	Q	Q
Religious Worship	370	315	171	139	Q	N	Q
Service	622	418	260	154	Q	Q	Q
Warehouse and Storage	597	243	163	85	Q	Q	Q
Other	79	55	32	20	Q	Q	Q
Vacant	182	47	21	27	N	Q	N
Year Constructed							
Before 1920	330	266	121	120	Q	Q	Q
1920 to 1945	527	367	139	212	15	Q	Q
1946 to 1959	562	416	212	191	Q	Q	Q
1960 to 1969	579	444	237	177	20	8	24
1970 to 1979	731	582	333	248	13	3	Q
1980 to 1989	707	531	347	170	Q	3	23
1990 to 1999	876	642	373	257	Q	Q	Q
2000 to 2003	334	224	146	70	Q	Q	Q
Census Region and Division							
Northeast	726	600	249	266	84	8	22
New England	233	188	92	38	53	Q	Q
Middle Atlantic	493	411	157	229	32	6	Q
Midwest	1,266	987	504	469	Q	6	44
East North Central	696	572	263	323	Q	3	Q
West North Central	571	415	241	146	Q	Q	Q
South	1,775	1,217	841	370	Q	7	35
South Atlantic	874	643	491	147	Q	Q	19
East South Central	348	227	153	72	N	Q	Q
West South Central	553	347	197	151	Q	Q	Q
West	878	668	316	340	Q	Q	Q
Mountain	299	256	109	140	Q	Q	Q
Pacific	580	413	207	201	Q	Q	Q

Table B31. Water-Heating Energy Sources, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)						
			Water-Heating Energy Sources Used (more than one may apply)				
	All Buildings*	Buildings with Water Heating	Elec-tricity	Natural Gas	Fuel Oil	District Heat	Propane
All Buildings*	4,645	3,472	1,910	1,445	94	27	128
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	855	683	324	312	41	4	28
5,500-7,000 HDD	1,173	926	454	440	33	8	29
4,000-5,499 HDD	673	554	314	203	19	7	Q
Fewer than 4,000 HDD	1,276	883	504	377	Q	6	28
2,000 CDD or More and --							
Fewer than 4,000 HDD	669	426	315	113	Q	Q	Q
Number of Workers (main shift)							
Fewer than 5	2,653	1,653	995	569	46	Q	78
5 to 9	778	675	365	297	Q	Q	Q
10 to 19	563	514	258	238	Q	Q	Q
20 to 49	398	384	183	203	Q	11	Q
50 to 99	147	142	59	83	Q	Q	Q
100 to 249	77	75	35	39	Q	5	Q
250 or More	30	30	15	15	1	3	Q
Weekly Operating Hours							
Fewer than 40	1,002	580	347	212	Q	Q	Q
40 to 48	1,117	856	519	318	Q	Q	Q
49 to 60	1,062	845	504	330	17	Q	Q
61 to 84	591	506	252	235	Q	5	Q
85 to 167	400	330	145	171	Q	4	Q
Open Continuously	475	356	142	178	23	7	27
Energy Sources (more than one may apply)							
Electricity	4,404	3,470	1,910	1,445	92	27	128
Natural Gas	2,391	2,126	757	1,445	19	6	Q
Fuel Oil	451	376	206	85	94	3	18
District Heat	67	61	25	15	Q	27	Q
District Chilled Water	33	31	9	14	Q	10	Q
Propane	502	428	268	27	25	Q	128
Other	132	95	58	20	Q	Q	Q
Primary Space-Heating Energy Source							
Electricity	1,258	999	823	184	Q	Q	15
Natural Gas	1,999	1,765	642	1,190	2	Q	Q
Fuel Oil	282	226	131	18	79	N	Q
District Heat	63	57	25	14	Q	25	N
Propane	308	252	163	N	Q	N	92
Other	72	38	Q	Q	Q	N	Q
Cooking Energy Sources (more than one may apply)							
Electricity	410	407	219	189	10	2	18
Natural Gas	457	451	116	354	14	2	N
Propane	108	101	40	Q	Q	Q	47

Table B31. Water-Heating Energy Sources, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)						
			Water-Heating Energy Sources Used (more than one may apply)				
	All Buildings*	Buildings with Water Heating	Elec-tricity	Natural Gas	Fuel Oil	District Heat	Propane
All Buildings*	4,645	3,472	1,910	1,445	94	27	128
Energy End Uses (more than one may apply)							
Buildings with Space Heating	3,982	3,337	1,815	1,407	87	27	124
Buildings with Cooling	3,625	3,112	1,708	1,326	62	25	109
Buildings with Water Heating	3,472	3,472	1,910	1,445	94	27	128
Buildings with Cooking	801	787	316	426	32	3	59
Buildings with Manufacturing	119	102	63	42	Q	Q	Q
Buildings with Electricity Generation	149	143	69	73	6	5	Q
Water Heating Equipment							
Centralized System	2,513	2,513	1,265	1,103	91	22	98
Distributed System	785	785	550	240	Q	Q	Q
Combination of Centralized and Distributed System	175	175	94	102	2	3	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B32. Water-Heating Energy Sources, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
			Water-Heating Energy Sources Used (more than one may apply)				
	All Buildings*	Buildings with Water Heating	Elec-tricity	Natural Gas	Fuel Oil	District Heat	Propane
All Buildings*	64,783	56,478	27,490	28,820	1,880	3,088	1,422
Building Floorspace (Square Feet)							
1,001 to 5,000	6,789	4,759	2,847	1,699	116	N	169
5,001 to 10,000	6,585	5,348	2,821	2,296	Q	Q	205
10,001 to 25,000	11,535	9,562	4,809	4,470	265	Q	430
25,001 to 50,000	8,668	7,734	3,924	4,055	Q	Q	Q
50,001 to 100,000	9,057	8,412	3,659	5,005	Q	303	Q
100,001 to 200,000	9,064	8,300	3,884	4,754	Q	822	Q
200,001 to 500,000	7,176	6,680	2,722	4,076	Q	621	Q
Over 500,000	5,908	5,683	2,824	2,467	Q	1,064	N
Principal Building Activity							
Education	9,874	9,481	3,829	5,549	501	535	347
Food Sales	1,255	1,130	515	557	Q	N	Q
Food Service	1,654	1,654	482	1,127	Q	Q	Q
Health Care	3,163	3,160	1,026	1,926	177	423	Q
Inpatient	1,905	1,905	280	1,380	162	381	Q
Outpatient	1,258	1,255	746	547	Q	Q	N
Lodging	5,096	5,096	905	3,676	Q	Q	219
Retail (Other Than Mall)	4,317	3,459	2,047	1,470	Q	N	Q
Office	12,208	11,804	7,015	4,713	Q	974	Q
Public Assembly	3,939	3,632	1,638	1,957	Q	389	Q
Public Order and Safety	1,090	957	327	486	Q	Q	Q
Religious Worship	3,754	3,512	1,825	1,893	Q	N	Q
Service	4,050	3,320	1,841	1,523	Q	Q	Q
Warehouse and Storage	10,078	6,624	4,520	2,672	Q	Q	Q
Other	1,738	1,630	990	656	Q	Q	Q
Vacant	2,567	1,020	530	614	N	Q	N
Year Constructed							
Before 1920	3,769	3,353	1,348	1,942	Q	Q	Q
1920 to 1945	6,871	5,292	1,872	2,857	Q	617	Q
1946 to 1959	7,045	5,924	2,819	3,245	Q	399	Q
1960 to 1969	8,101	7,202	2,865	3,953	314	608	314
1970 to 1979	10,772	9,787	4,775	5,169	303	453	Q
1980 to 1989	10,332	9,420	5,665	3,994	Q	561	174
1990 to 1999	12,360	10,816	5,853	5,295	Q	Q	Q
2000 to 2003	5,533	4,683	2,294	2,366	Q	Q	Q
Census Region and Division							
Northeast	12,905	11,789	5,125	5,601	1,542	929	261
New England	2,964	2,724	1,439	682	590	Q	Q
Middle Atlantic	9,941	9,065	3,686	4,919	952	775	Q
Midwest	17,080	14,928	6,477	8,799	Q	749	390
East North Central	11,595	10,208	4,086	6,417	Q	588	Q
West North Central	5,485	4,720	2,391	2,382	Q	Q	362
South	23,489	19,913	11,882	8,306	Q	956	537
South Atlantic	12,258	10,714	7,033	3,649	Q	730	391
East South Central	3,393	2,858	1,581	1,456	N	Q	Q
West South Central	7,837	6,341	3,267	3,201	Q	Q	Q
West	11,310	9,848	4,007	6,114	Q	454	Q
Mountain	3,675	3,422	1,236	2,276	Q	Q	Q
Pacific	7,635	6,426	2,771	3,838	Q	338	Q

Table B32. Water-Heating Energy Sources, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
			Water-Heating Energy Sources Used (more than one may apply)				
	All Buildings*	Buildings with Water Heating	Elec-tricity	Natural Gas	Fuel Oil	District Heat	Propane
All Buildings*	64,783	56,478	27,490	28,820	1,880	3,088	1,422
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	10,622	9,474	3,941	5,482	389	582	341
5,500-7,000 HDD	17,335	15,160	6,525	8,466	481	654	312
4,000-5,499 HDD	11,504	10,785	5,147	4,892	902	1,073	Q
Fewer than 4,000 HDD	15,739	13,192	6,685	7,068	Q	695	260
2,000 CDD or More and --							
Fewer than 4,000 HDD	9,584	7,867	5,192	2,913	Q	Q	Q
Number of Workers (main shift)							
Fewer than 5	15,492	9,525	5,218	3,869	249	Q	510
5 to 9	6,166	5,393	2,864	2,513	Q	Q	Q
10 to 19	7,803	7,182	3,532	3,317	Q	Q	Q
20 to 49	10,989	10,480	5,002	6,002	Q	484	Q
50 to 99	7,934	7,688	3,253	4,713	Q	Q	Q
100 to 249	6,871	6,815	2,956	3,842	Q	729	Q
250 or More	9,528	9,395	4,666	4,564	342	1,347	Q
Weekly Operating Hours							
Fewer than 40	6,863	4,305	2,435	1,918	Q	Q	Q
40 to 48	11,622	9,989	5,949	4,342	Q	Q	Q
49 to 60	15,723	13,564	7,886	6,100	252	463	Q
61 to 84	10,334	9,477	4,657	4,793	Q	516	Q
85 to 167	7,092	6,635	2,996	3,596	Q	476	Q
Open Continuously	13,149	12,508	3,568	8,072	875	1,409	335
Energy Sources (more than one may apply)							
Electricity	63,307	56,463	27,490	28,820	1,865	3,088	1,422
Natural Gas	43,468	41,134	14,880	28,820	1,020	1,427	Q
Fuel Oil	15,157	14,560	6,745	6,968	1,880	1,241	389
District Heat	5,443	4,631	1,685	939	Q	3,088	Q
District Chilled Water	2,853	2,655	745	1,023	Q	1,205	Q
Propane	7,076	6,292	3,710	1,593	450	Q	1,422
Other	1,401	1,306	645	577	Q	Q	Q
Primary Space-Heating Energy Source							
Electricity	15,996	14,429	11,021	4,038	Q	Q	223
Natural Gas	32,970	31,026	10,988	22,675	207	Q	Q
Fuel Oil	3,818	3,539	1,746	911	1,502	N	Q
District Heat	4,907	4,095	1,541	848	Q	2,694	N
Propane	1,955	1,751	1,046	N	Q	N	814
Other	382	314	Q	Q	Q	N	Q
Cooking Energy Sources (more than one may apply)							
Electricity	13,161	13,003	6,222	7,474	490	911	304
Natural Gas	15,438	15,296	4,537	11,840	883	834	N
Propane	1,460	1,437	398	Q	246	Q	714

Table B32. Water-Heating Energy Sources, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
			Water-Heating Energy Sources Used (more than one may apply)				
	All Buildings*	Buildings with Water Heating	Elec-tricity	Natural Gas	Fuel Oil	District Heat	Propane
All Buildings*	64,783	56,478	27,490	28,820	1,880	3,088	1,422
Energy End Uses (more than one may apply)							
Buildings with Space Heating	60,028	55,154	26,527	28,544	1,797	3,023	1,376
Buildings with Cooling	56,940	53,232	26,028	27,379	1,591	2,987	1,252
Buildings with Water Heating	56,478	56,478	27,490	28,820	1,880	3,088	1,422
Buildings with Cooking	22,237	21,914	8,295	13,909	1,265	1,248	796
Buildings with Manufacturing	3,138	2,987	1,761	1,520	Q	Q	Q
Buildings with Electricity Generation	12,821	12,612	5,559	7,123	389	1,443	Q
Water Heating Equipment							
Centralized System	34,671	34,671	14,245	17,917	1,591	2,073	973
Distributed System	11,540	11,540	7,842	4,435	Q	Q	Q
Combination of Centralized and Distributed System	10,267	10,267	5,404	6,468	248	859	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B33. Cooking Energy Sources, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
			Cooking Energy Sources (more than one may apply)					Cooking Energy Sources (more than one may apply)		
	All Buildings*	Buildings with Cooking	Electricity	Natural Gas	Propane	All Buildings*	Buildings with Cooking	Electricity	Natural Gas	Propane
All Buildings*	4,645	801	410	457	108	64,783	22,237	13,161	15,438	1,460
Building Floorspace (Square Feet)										
1,001 to 5,000	2,552	354	170	183	63	6,789	997	493	549	165
5,001 to 10,000	889	155	82	88	Q	6,585	1,136	621	641	Q
10,001 to 25,000	738	127	59	75	Q	11,535	1,954	961	1,115	Q
25,001 to 50,000	241	69	40	44	Q	8,668	2,511	1,444	1,623	Q
50,001 to 100,000	129	50	33	31	Q	9,057	3,575	2,350	2,237	Q
100,001 to 200,000	65	28	15	22	Q	9,064	3,991	2,068	3,011	Q
200,001 to 500,000	25	14	9	11	Q	7,176	4,047	2,583	3,247	Q
Over 500,000	7	4	3	3	Q	5,908	4,025	2,641	3,015	Q
Principal Building Activity										
Education	386	125	78	62	11	9,874	6,402	4,240	3,745	455
Food Sales	226	84	51	31	Q	1,255	677	395	412	Q
Food Service	297	284	129	200	38	1,654	1,611	818	1,280	174
Health Care	129	12	8	6	Q	3,163	1,922	1,187	1,616	Q
Inpatient	8	7	4	6	Q	1,905	1,819	1,125	1,572	Q
Outpatient	121	Q	Q	Q	Q	1,258	Q	Q	Q	Q
Lodging	142	47	28	29	Q	5,096	3,184	1,741	2,660	Q
Retail (Other Than Mall)	443	14	4	11	Q	4,317	771	493	641	Q
Office	824	23	17	12	N	12,208	3,077	2,041	1,946	N
Public Assembly	277	73	34	30	Q	3,939	1,506	623	1,133	Q
Public Order and Safety	71	14	Q	Q	Q	1,090	543	Q	Q	Q
Religious Worship	370	108	51	60	Q	3,754	1,552	810	1,000	Q
Service	622	Q	Q	Q	N	4,050	Q	Q	Q	N
Warehouse and Storage	597	Q	Q	Q	Q	10,078	Q	Q	Q	Q
Other	79	Q	Q	Q	Q	1,738	Q	Q	Q	Q
Vacant	182	Q	Q	Q	Q	2,567	Q	Q	Q	Q
Year Constructed										
Before 1920	330	71	32	41	Q	3,769	1,362	664	1,042	Q
1920 to 1945	527	87	40	61	Q	6,871	2,242	946	1,810	Q
1946 to 1959	562	119	60	60	Q	7,045	3,156	1,709	1,996	Q
1960 to 1969	579	92	42	52	Q	8,101	2,669	1,766	1,510	Q
1970 to 1979	731	112	68	64	13	10,772	3,431	2,233	2,412	214
1980 to 1989	707	112	65	51	20	10,332	3,677	2,450	2,384	278
1990 to 1999	876	144	69	90	Q	12,360	3,597	2,127	2,777	Q
2000 to 2003	334	65	35	37	Q	5,533	2,104	1,264	1,506	Q
Census Region and Division										
Northeast	726	157	57	88	35	12,905	5,016	2,495	3,580	396
New England	233	53	14	18	29	2,964	938	537	474	266
Middle Atlantic	493	104	43	70	Q	9,941	4,078	1,958	3,106	Q
Midwest	1,266	206	112	123	25	17,080	5,850	3,784	3,965	233
East North Central	696	131	73	90	Q	11,595	4,378	2,934	3,052	Q
West North Central	571	75	39	33	Q	5,485	1,472	850	913	Q
South	1,775	304	176	167	27	23,489	7,881	4,900	5,480	451
South Atlantic	874	149	94	73	17	12,258	4,198	2,611	2,741	374
East South Central	348	59	32	29	Q	3,393	1,055	665	786	Q
West South Central	553	96	50	64	Q	7,837	2,628	1,623	1,953	Q
West	878	134	64	79	20	11,310	3,489	1,982	2,412	381
Mountain	299	46	27	21	Q	3,675	1,209	791	796	Q
Pacific	580	88	37	57	Q	7,635	2,280	1,192	1,616	Q

Table B33. Cooking Energy Sources, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings*	Buildings with Cooking	Cooking Energy Sources (more than one may apply)			All Buildings*	Buildings with Cooking	Cooking Energy Sources (more than one may apply)		
			Electricity	Natural Gas	Propane			Electricity	Natural Gas	Propane
All Buildings*	4,645	801	410	457	108	64,783	22,237	13,161	15,438	1,460
Climate Zone: 30-Year Average										
Under 2,000 CDD and --										
More than 7,000 HDD	855	145	69	65	40	10,622	3,302	2,123	2,217	354
5,500-7,000 HDD	1,173	227	125	141	19	17,335	6,369	4,210	4,071	259
4,000-5,499 HDD	673	102	45	65	Q	11,504	4,736	2,235	3,464	Q
Fewer than 4,000 HDD	1,276	210	101	127	19	15,739	4,621	2,472	3,518	387
2,000 CDD or More and --										
Fewer than 4,000 HDD	669	116	70	58	Q	9,584	3,208	2,120	2,167	Q
Number of Workers (main shift)										
Fewer than 5	2,653	301	154	131	56	15,492	1,886	887	933	324
5 to 9	778	152	63	97	25	6,166	1,172	567	723	144
10 to 19	563	134	65	88	Q	7,803	2,010	908	1,494	Q
20 to 49	398	115	69	75	Q	10,989	3,829	2,238	2,644	Q
50 to 99	147	53	33	36	Q	7,934	3,699	2,487	2,665	Q
100 to 249	77	31	17	19	Q	6,871	3,515	2,137	2,417	Q
250 or More	30	14	9	10	Q	9,528	6,126	3,937	4,562	Q
Weekly Operating Hours										
Fewer than 40	1,002	127	66	57	Q	6,863	1,123	607	608	Q
40 to 48	1,117	72	45	35	Q	11,622	2,805	1,820	1,567	Q
49 to 60	1,062	141	70	87	Q	15,723	4,509	3,036	3,082	Q
61 to 84	591	169	84	101	25	10,334	3,438	1,781	2,048	306
85 to 167	400	174	83	102	29	7,092	3,039	1,924	2,074	224
Open Continuously	475	117	63	75	12	13,149	7,324	3,993	6,059	467
Energy Sources (more than one may apply)										
Electricity	4,404	801	410	457	108	63,307	22,237	13,161	15,438	1,460
Natural Gas	2,391	564	261	457	Q	43,468	18,656	10,311	15,438	Q
Fuel Oil	451	115	52	51	35	15,157	8,987	5,392	6,655	672
District Heat	67	9	4	7	Q	5,443	1,926	1,337	1,281	Q
District Chilled Water	33	6	4	3	Q	2,853	1,274	936	900	Q
Propane	502	148	56	12	108	7,076	2,673	1,432	912	1,460
Other	132	17	7	5	Q	1,401	599	444	383	Q
Water-Heating Energy Sources (more than one may apply)										
Electricity	1,910	316	219	116	40	27,490	8,295	6,222	4,537	398
Natural Gas	1,445	426	189	354	Q	28,820	13,909	7,474	11,840	Q
Fuel Oil	94	32	10	14	Q	1,880	1,265	490	883	246
District Heat	27	3	2	2	Q	3,088	1,248	911	834	Q
Propane	128	59	18	N	47	1,422	796	304	N	714

Table B33. Cooking Energy Sources, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Build-ings*	Build-ings with Cooking	Cooking Energy Sources (more than one may apply)			All Build-ings*	Build-ings with Cooking	Cooking Energy Sources (more than one may apply)		
			Elec-tricity	Natural Gas	Propane			Elec-tricity	Natural Gas	Propane
All Buildings*	4,645	801	410	457	108	64,783	22,237	13,161	15,438	1,460
Energy End Uses (more than one may apply)										
Buildings with Space Heating	3,982	764	392	439	101	60,028	21,725	12,942	15,125	1,335
Buildings with Cooling	3,625	743	378	444	85	56,940	21,451	12,695	15,127	1,263
Buildings with Water Heating	3,472	787	407	451	101	56,478	21,914	13,003	15,296	1,437
Buildings with Cooking	801	801	410	457	108	22,237	22,237	13,161	15,438	1,460
Buildings with Manufacturing	119	9	Q	3	Q	3,138	623	Q	400	Q
Buildings with Electricity Generation	149	58	38	37	Q	12,821	8,028	5,403	6,071	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

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

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B34. Percent of Floorspace Heated, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Build-ings*	Not Heated	1 to 50 Percent Heated	51 to 99 Percent Heated	100 Percent Heated	All Build-ings*	Not Heated	1 to 50 Percent Heated	51 to 99 Percent Heated	100 Percent Heated
All Buildings*	4,645	663	523	498	2,962	64,783	4,756	6,850	8,107	45,071
Building Floorspace (Square Feet)										
1,001 to 5,000	2,552	452	262	258	1,580	6,789	1,121	738	731	4,198
5,001 to 10,000	889	107	112	99	570	6,585	799	889	724	4,173
10,001 to 25,000	738	79	107	89	463	11,535	1,148	1,742	1,420	7,225
25,001 to 50,000	241	16	22	27	176	8,668	608	842	941	6,278
50,001 to 100,000	129	Q	13	13	98	9,057	Q	916	926	6,877
100,001 to 200,000	65	Q	5	6	52	9,064	Q	703	779	7,228
200,001 to 500,000	25	Q	Q	4	19	7,176	Q	Q	1,168	5,404
Over 500,000	7	Q	Q	2	4	5,908	Q	Q	1,418	3,688
Principal Building Activity										
Education	386	Q	Q	27	340	9,874	Q	Q	1,017	8,586
Food Sales	226	Q	Q	Q	130	1,255	Q	Q	Q	791
Food Service	297	Q	Q	52	211	1,654	Q	Q	292	1,113
Health Care	129	Q	Q	21	97	3,163	Q	Q	465	2,569
Inpatient	8	N	N	1	7	1,905	N	N	325	1,580
Outpatient	121	Q	Q	Q	90	1,258	Q	Q	Q	989
Lodging	142	Q	12	16	114	5,096	Q	234	605	4,155
Retail (Other Than Mall)	443	Q	64	74	270	4,317	Q	657	787	2,631
Office	824	22	47	102	653	12,208	279	541	2,222	9,167
Public Assembly	277	Q	26	34	198	3,939	Q	259	590	2,928
Public Order and Safety	71	Q	Q	Q	58	1,090	Q	Q	Q	929
Religious Worship	370	Q	Q	39	295	3,754	Q	Q	404	2,897
Service	622	107	99	68	348	4,050	364	542	521	2,624
Warehouse and Storage	597	280	153	14	149	10,078	1,952	3,320	728	4,077
Other	79	Q	Q	Q	55	1,738	Q	Q	Q	1,473
Vacant	182	113	Q	Q	45	2,567	1,077	Q	Q	1,132
Year Constructed										
Before 1920	330	27	48	55	200	3,769	102	635	676	2,356
1920 to 1945	527	85	60	70	312	6,871	635	819	1,066	4,351
1946 to 1959	562	69	55	70	368	7,045	511	506	869	5,159
1960 to 1969	579	55	65	52	407	8,101	591	557	867	6,086
1970 to 1979	731	83	68	82	497	10,772	549	998	1,248	7,978
1980 to 1989	707	88	84	73	460	10,332	524	1,054	1,361	7,394
1990 to 1999	876	157	93	78	549	12,360	1,106	1,370	1,480	8,403
2000 to 2003	334	98	50	18	168	5,533	737	911	540	3,345
Census Region										
Northeast	726	54	74	84	514	12,905	309	1,387	1,539	9,671
Midwest	1,266	154	117	141	853	17,080	748	1,130	1,727	13,474
South	1,775	312	236	168	1,059	23,489	2,491	2,841	2,891	15,266
West	878	143	95	105	535	11,310	1,208	1,491	1,950	6,661
Climate Zone: 30-Year Average										
Under 2,000 CDD and --										
More than 7,000 HDD	855	103	97	95	560	10,622	513	1111	1377	7,620
5,500-7,000 HDD	1,173	117	104	113	837	17,335	615	1,109	1,735	13,876
4,000-5,499 HDD	673	47	89	81	455	11,504	265	1,325	1,713	8,202
Fewer than 4,000 HDD	1,276	225	146	150	754	15,739	1,773	1,845	2,349	9,772
2,000 CDD or More and --										
Fewer than 4,000 HDD	669	171	85	58	355	9,584	1,589	1,460	932	5,602

Table B34. Percent of Floorspace Heated, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Build-ings*	Not Heated	1 to 50 Percent Heated	51 to 99 Percent Heated	100 Percent Heated	All Build-ings*	Not Heated	1 to 50 Percent Heated	51 to 99 Percent Heated	100 Percent Heated
All Buildings*	4,645	663	523	498	2,962	64,783	4,756	6,850	8,107	45,071
Number of Floors										
One	3,136	570	353	292	1,921	25,981	3,237	3,336	2,534	16,875
Two	1,031	70	135	111	714	16,270	862	2,027	1,643	11,739
Three	339	Q	21	69	228	7,501	Q	749	1,049	5,401
Four to Nine	128	Q	13	22	91	10,085	Q	556	1,601	7,587
Ten or More	12	Q	Q	3	8	4,947	Q	Q	1,280	3,470
Number of Workers (main shift)										
Fewer than 5	2,653	573	352	251	1,477	15,492	3,311	2,406	1,318	8,457
5 to 9	778	46	80	98	555	6,166	344	918	858	4,046
10 to 19	563	27	56	68	412	7,803	394	1,049	843	5,517
20 to 49	398	Q	23	50	313	10,989	Q	1,106	1,240	8,476
50 to 99	147	Q	7	18	115	7,934	Q	641	980	6,028
100 to 249	77	Q	Q	7	66	6,871	Q	Q	743	5,696
250 or More	30	Q	Q	5	23	9,528	Q	Q	2,123	6,851
Weekly Operating Hours										
Fewer than 40	1,002	250	115	81	555	6,863	1,617	842	509	3,895
40 to 48	1,117	80	140	118	779	11,622	694	1,389	1,091	8,447
49 to 60	1,062	96	132	120	713	15,723	960	2,055	2,035	10,672
61 to 84	591	57	55	90	389	10,334	323	971	1,797	7,244
85 to 167	400	69	39	38	254	7,092	412	828	681	5,171
Open Continuously	475	111	41	50	273	13,149	750	765	1,994	9,641
Vacancy Status										
Completely Vacant	157	97	Q	Q	39	2,161	940	Q	Q	943
Mostly Vacant	25	Q	Q	Q	Q	406	Q	Q	Q	Q
Partially Vacant	548	116	74	62	296	12,382	891	1,367	2,307	7,817
Not At All Vacant	3,915	434	435	425	2,620	49,834	2,788	5,185	5,740	36,122
Energy Sources (more than one may apply)										
Electricity	4,404	432	520	498	2,953	63,307	3,315	6,829	8,107	45,055
Natural Gas	2,391	47	231	317	1,796	43,468	494	4,006	5,965	33,002
Fuel Oil	451	Q	62	56	325	15,157	Q	1,253	2,480	11,209
District Heat	67	Q	Q	5	60	5,443	Q	Q	636	4,716
District Chilled Water	33	Q	Q	3	28	2,853	Q	Q	342	2,328
Propane	502	Q	88	58	342	7,076	Q	1,178	1,009	4,602
Other	132	Q	Q	Q	104	1,401	Q	Q	Q	1,142
Space-Heating Energy Sources (more than one may apply)										
Electricity	1,766	N	275	229	1,261	28,600	N	4,077	4,355	20,168
Natural Gas	2,165	N	214	294	1,658	36,959	N	3,685	5,077	28,197
Fuel Oil	360	N	57	48	254	5,988	N	772	846	4,370
District Heat	65	N	Q	5	59	5,198	N	Q	631	4,541
Propane	372	N	64	41	266	3,204	N	587	344	2,272
Other	113	N	Q	Q	89	842	N	Q	Q	679

Table B34. Percent of Floorspace Heated, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Build-ings*	Not Heated	1 to 50 Percent Heated	51 to 99 Percent Heated	100 Percent Heated	All Build-ings*	Not Heated	1 to 50 Percent Heated	51 to 99 Percent Heated	100 Percent Heated
All Buildings*	4,645	663	523	498	2,962	64,783	4,756	6,850	8,107	45,071
Primary Space-Heating Energy Source										
Electricity	1,258	N	222	146	891	15,996	N	2,890	2,164	10,943
Natural Gas	1,999	N	192	272	1,534	32,970	N	3,029	4,707	25,233
Fuel Oil	282	N	42	41	199	3,818	N	565	459	2,793
District Heat	63	N	Q	5	57	4,907	N	Q	574	4,307
Propane	308	N	54	33	221	1,955	N	280	203	1,473
Other	72	N	Q	N	60	382	N	Q	N	322
Energy End Uses (more than one may apply)										
Buildings with Space Heating	3,982	N	523	498	2,962	60,028	N	6,850	8,107	45,071
Buildings with Cooling	3,625	156	425	448	2,596	56,940	1,752	6,013	7,768	41,407
Buildings with Water Heating	3,472	135	368	427	2,542	56,478	1,324	5,404	7,683	42,067
Buildings with Cooking	801	37	44	99	620	22,237	511	711	3,215	17,799
Buildings with Manufacturing	119	Q	24	Q	76	3,138	Q	812	Q	1,763
Buildings with Electricity Generation	149	Q	10	14	123	12,821	Q	576	2,102	9,957
Percent of Floorspace Cooled										
Not Cooled	1,020	507	97	49	366	7,843	3,004	836	339	3,664
1 to 50	985	51	373	93	469	16,598	745	5,201	1,906	8,746
51 to 99	629	30	17	322	260	13,211	322	300	5,399	7,189
100	2,011	76	35	33	1,867	27,132	684	512	463	25,472
Percent Lit When Open										
Zero	47	Q	Q	N	Q	293	Q	Q	N	Q
1 to 50	929	133	247	83	466	10,203	909	2,916	1,046	5,333
51 to 99	1,108	73	87	263	685	18,288	640	1,248	4,132	12,267
100	2,176	143	157	137	1,739	32,789	1,214	2,343	2,863	26,370
Building Never Open/ Electricity Not Used	386	276	Q	Q	68	3,210	1,767	Q	Q	1,068
Heating Equipment (more than one may apply)										
Heat Pumps	476	N	37	61	378	8,814	N	670	1,497	6,647
Packaged Heat Pumps	278	N	19	33	226	5,442	N	393	825	4,224
Split-System Heat Pumps	166	N	Q	22	127	2,581	N	Q	426	1,877
Individual Room Heat Pumps	58	N	Q	12	46	2,691	N	Q	587	2,086
Furnaces	1,864	N	240	241	1,383	19,615	N	2,852	2,597	14,165
Individual Space Heaters	819	N	178	114	527	12,545	N	2,055	1,943	8,547
District Heat	65	N	Q	5	58	5,166	N	Q	631	4,509
Boilers	579	N	30	77	472	20,423	N	792	3,110	16,521
Packaged Heating Units	953	N	109	138	706	18,021	N	2,390	2,546	13,085
Other	205	N	29	22	153	3,262	N	279	476	2,507
HVAC Conservation Features (more than one may apply)										
Variable Air-Volume System	466	25	27	55	358	19,597	489	1,004	3,035	15,070
Economizer Cycle	508	Q	31	80	386	21,108	Q	942	3,420	16,466
HVAC Maintenance	2,581	90	234	332	1,925	51,163	1,351	4,542	6,910	38,359
Energy Management and Control System (EMCS)	252	Q	9	33	203	15,630	Q	541	2,502	12,414

Table B34. Percent of Floorspace Heated, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Build-ings*	Not Heated	1 to 50 Percent Heated	51 to 99 Percent Heated	100 Percent Heated	All Build-ings*	Not Heated	1 to 50 Percent Heated	51 to 99 Percent Heated	100 Percent Heated
All Buildings*	4,645	663	523	498	2,962	64,783	4,756	6,850	8,107	45,071
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]										
Heating	2,878	N	382	362	2,135	42,722	N	4,451	5,917	32,353
Cooling	2,761	111	324	352	1,974	43,205	1,228	4,350	6,118	31,508
Lighting	3,685	288	437	418	2,542	46,987	2,189	5,541	5,939	33,319
Office Equipment	1,504	58	186	164	1,095	19,397	759	2,244	2,118	14,277

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B35. Percent of Floorspace Cooled, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Build-ings*	Not Cooled	1 to 50 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled	All Build-ings*	Not Cooled	1 to 50 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled
All Buildings*	4,645	1,020	985	629	2,011	64,783	7,843	16,598	13,211	27,132
Building Floorspace (Square Feet)										
1,001 to 5,000	2,552	710	407	279	1,155	6,789	1,782	1,206	781	3,021
5,001 to 10,000	889	157	226	133	374	6,585	1,177	1,704	995	2,710
10,001 to 25,000	738	109	225	126	277	11,535	1,612	3,517	2,034	4,372
25,001 to 50,000	241	25	64	43	109	8,668	893	2,369	1,479	3,928
50,001 to 100,000	129	11	41	25	52	9,057	726	2,926	1,751	3,654
100,001 to 200,000	65	5	14	14	32	9,064	725	1,984	1,954	4,402
200,001 to 500,000	25	Q	6	7	10	7,176	Q	1,822	2,057	2,685
Over 500,000	7	Q	Q	2	3	5,908	Q	Q	2,159	2,360
Principal Building Activity										
Education	386	34	49	46	257	9,874	673	1,993	2,228	4,980
Food Sales	226	Q	38	69	104	1,255	Q	252	508	438
Food Service	297	Q	38	56	189	1,654	Q	276	359	948
Health Care	129	Q	Q	26	95	3,163	Q	Q	893	2,148
Inpatient	8	Q	Q	2	6	1,905	Q	Q	605	1,229
Outpatient	121	N	Q	25	89	1,258	N	Q	288	919
Lodging	142	Q	23	24	83	5,096	Q	Q	1,361	2,790
Retail (Other Than Mall)	443	37	115	86	205	4,317	238	1,048	1,091	1,940
Office	824	34	97	143	549	12,208	176	1,093	3,508	7,432
Public Assembly	277	64	39	45	128	3,939	462	649	1,140	1,688
Public Order and Safety	71	Q	26	13	21	1,090	Q	184	221	638
Religious Worship	370	62	54	55	199	3,754	453	626	696	1,979
Service	622	252	231	44	95	4,050	789	2,151	435	675
Warehouse and Storage	597	330	213	Q	43	10,078	2,783	6,314	Q	652
Other	79	Q	31	4	22	1,738	Q	685	368	584
Vacant	182	130	23	Q	Q	2,567	1,731	523	Q	Q
Year Constructed										
Before 1920	330	98	95	50	87	3,769	878	1,320	728	842
1920 to 1945	527	146	107	79	196	6,871	1,952	1,990	1,445	1,484
1946 to 1959	562	132	125	81	224	7,045	999	2,083	1,490	2,473
1960 to 1969	579	112	131	64	272	8,101	976	2,202	1,734	3,189
1970 to 1979	731	121	146	133	331	10,772	799	2,751	2,112	5,110
1980 to 1989	707	129	151	90	335	10,332	496	2,061	2,324	5,450
1990 to 1999	876	181	165	97	433	12,360	1,056	3,000	2,421	5,883
2000 to 2003	334	100	65	35	133	5,533	686	1,190	956	2,701
Census Region										
Northeast	726	208	184	97	237	12,905	1,952	4,270	3,101	3,582
Midwest	1,266	309	293	197	467	17,080	2,596	4,757	3,761	5,966
South	1,775	296	366	195	918	23,489	1,936	4,915	3,903	12,735
West	878	208	142	140	388	11,310	1,359	2,656	2,446	4,849
Climate Zone: 30-Year Average										
Under 2,000 CDD and --										
More than 7,000 HDD	855	277	207	118	253	10,622	2,072	3,133	2,327	3,089
5,500-7,000 HDD	1,173	290	245	184	453	17,335	2,810	4,657	3,568	6,300
4,000-5,499 HDD	673	91	195	92	295	11,504	558	3,422	3,297	4,227
Fewer than 4,000 HDD	1,276	273	215	162	626	15,739	1,762	3,480	2,803	7,693
2,000 CDD or More and --										
Fewer than 4,000 HDD	669	88	123	74	384	9,584	641	1,906	1,215	5,822

Table B35. Percent of Floorspace Cooled, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Build-ings*	Not Cooled	1 to 50 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled	All Build-ings*	Not Cooled	1 to 50 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled
All Buildings*	4,645	1,020	985	629	2,011	64,783	7,843	16,598	13,211	27,132
Number of Floors										
One	3,136	795	607	361	1,372	25,981	4,562	7,975	3,508	9,936
Two	1,031	167	249	161	453	16,270	1,726	4,806	3,068	6,670
Three	339	49	92	72	126	7,501	1,064	1,626	1,629	3,182
Four to Nine	128	8	37	30	53	10,085	411	1,917	2,927	4,829
Ten or More	12	Q	Q	5	6	4,947	Q	Q	2,078	2,515
Number of Workers (main shift)										
Fewer than 5	2,653	907	555	259	932	15,492	5,901	3,819	1,438	4,334
5 to 9	778	53	176	122	428	6,166	440	2,046	1,077	2,603
10 to 19	563	40	130	103	289	7,803	499	2,999	1,347	2,958
20 to 49	398	12	82	98	206	10,989	423	3,361	2,629	4,576
50 to 99	147	8	31	22	86	7,934	506	2,034	1,585	3,810
100 to 249	77	Q	9	16	50	6,871	Q	1,152	1,696	3,958
250 or More	30	Q	2	8	19	9,528	Q	1,188	3,439	4,893
Weekly Operating Hours										
Fewer than 40	1,002	407	143	82	371	6,863	2,865	1,207	658	2,132
40 to 48	1,117	166	273	140	538	11,622	1,114	3,136	2,222	5,150
49 to 60	1,062	179	283	149	450	15,723	1,966	4,598	2,973	6,186
61 to 84	591	70	136	114	272	10,334	643	3,192	2,448	4,051
85 to 167	400	62	79	73	186	7,092	383	2,328	1,354	3,027
Open Continuously	475	137	71	71	195	13,149	872	2,137	3,555	6,585
Vacancy Status										
Completely Vacant	157	117	Q	Q	Q	2,161	1,577	Q	Q	Q
Mostly Vacant	25	Q	Q	Q	Q	406	Q	Q	Q	Q
Partially Vacant	548	153	129	65	201	12,382	1,298	2,795	3,145	5,144
Not At All Vacant	3,915	736	832	557	1,789	49,834	4,814	13,280	9,992	21,747
Energy Sources (more than one may apply)										
Electricity	4,404	780	983	629	2,011	63,307	6,381	16,583	13,211	27,132
Natural Gas	2,391	238	601	402	1,150	43,468	2,444	12,132	9,732	19,159
Fuel Oil	451	152	120	57	121	15,157	1,267	3,384	4,493	6,013
District Heat	67	Q	9	9	37	5,443	Q	370	1,626	2,657
District Chilled Water	33	N	Q	5	27	2,853	N	Q	829	1,985
Propane	502	103	149	67	184	7,076	1,363	2,620	1,119	1,974
Other	132	54	37	19	22	1,401	176	503	304	418
Cooling Energy Sources (more than one may apply)										
Electricity	3,589	N	978	625	1,986	54,321	N	16,465	12,327	25,529
Natural Gas	17	N	Q	2	11	1,018	N	Q	360	541
District Chilled Water	33	N	Q	5	27	2,853	N	Q	829	1,985
Energy End Uses (more than one may apply)										
Buildings with Space Heating	3,982	513	934	599	1,936	60,028	4,839	15,852	12,888	26,448
Buildings with Cooling	3,625	N	985	629	2,011	56,940	N	16,598	13,211	27,132
Buildings with Water Heating	3,472	360	810	560	1,742	56,478	3,246	14,671	12,741	25,819
Buildings with Cooking	801	58	129	154	460	22,237	786	3,593	6,608	11,250
Buildings with Manufacturing	119	Q	59	10	23	3,138	Q	1,695	524	437
Buildings with Electricity Generation	149	Q	30	34	80	12,821	Q	1,839	4,225	6,683

Table B35. Percent of Floorspace Cooled, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Build-ings*	Not Cooled	1 to 50 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled	All Build-ings*	Not Cooled	1 to 50 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled
All Buildings*	4,645	1,020	985	629	2,011	64,783	7,843	16,598	13,211	27,132
Percent of Floorspace Heated										
Not Heated	663	507	51	30	76	4,756	3,004	745	322	684
1 to 50	523	97	373	17	35	6,850	836	5,201	300	512
51 to 99	498	49	93	322	33	8,107	339	1,906	5,399	463
100	2,962	366	469	260	1,867	45,071	3,664	8,746	7,189	25,472
Percent Lit When Open										
Zero	47	Q	Q	N	Q	293	Q	Q	N	Q
1 to 50	929	231	378	89	231	10,203	1,668	4,053	1,755	2,727
51 to 99	1,108	132	210	304	462	18,288	1,156	3,820	6,366	6,947
100	2,176	286	374	228	1,289	32,789	2,229	8,311	5,055	17,194
Building Never Open/ Electricity Not Used	386	330	Q	Q	Q	3,210	2,552	Q	Q	Q
Cooling Equipment (more than one may apply)										
Residential-Type Central Air Conditioners	1,006	N	284	182	540	11,035	N	4,453	2,332	4,250
Heat Pumps	492	N	76	82	335	9,041	N	1,573	2,334	5,134
Packaged Heat Pumps	288	N	43	43	202	5,426	N	808	1,346	3,272
Split-System Heat Pumps	174	N	32	34	108	2,606	N	623	655	1,329
Individual Room Heat Pumps	58	N	Q	15	41	2,940	N	Q	895	1,728
Individual Air Conditioners	742	N	349	119	274	12,558	N	5,424	3,170	3,964
District Chilled Water	33	N	Q	5	27	2,853	N	Q	829	1,985
Central Chillers	111	N	9	31	72	11,636	N	462	4,304	6,870
Packaged Air Conditioning Units	1,613	N	348	313	952	29,969	N	8,900	7,331	13,738
Swamp Coolers	122	N	36	43	43	1,561	N	489	522	550
Other	40	N	Q	Q	22	1,232	N	Q	261	766
HVAC Conservation Features (more than one may apply)										
Variable Air-Volume System	466	16	72	84	294	19,597	342	2,863	5,549	10,843
Economizer Cycle	508	N	78	128	303	21,108	N	3,062	6,716	11,331
HVAC Maintenance	2,581	253	547	419	1,362	51,163	3,228	12,648	11,627	23,660
Energy Management and Control System (EMCS)	252	5	27	53	167	15,630	272	1,823	4,934	8,601
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]										
Heating	2,878	366	698	432	1,382	42,722	2,857	11,363	9,666	18,835
Cooling	2,761	N	788	474	1,499	43,205	N	12,888	10,297	20,020
Lighting	3,685	563	866	530	1,727	46,987	4,399	13,673	9,368	19,548
Office Equipment	1,504	136	421	204	743	19,397	1,648	6,258	3,372	8,119

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B36. Percent of Floorspace Lit When Open, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Build-ings*	Not Lit [a]	1 to 50 Percent Lit	51 to 99 Percent Lit	100 Percent Lit	All Build-ings*	Not Lit [a]	1 to 50 Percent Lit	51 to 99 Percent Lit	100 Percent Lit
All Buildings*	4,645	432	929	1,108	2,176	64,783	3,503	10,203	18,288	32,789
Building Floorspace (Square Feet)										
1,001 to 5,000	2,552	304	524	540	1,184	6,789	777	1,372	1,482	3,158
5,001 to 10,000	889	77	149	220	444	6,585	558	1,124	1,671	3,233
10,001 to 25,000	738	28	184	203	323	11,535	373	2,810	3,179	5,173
25,001 to 50,000	241	12	47	80	102	8,668	454	1,705	2,807	3,702
50,001 to 100,000	129	Q	16	37	69	9,057	Q	1,146	2,570	4,903
100,001 to 200,000	65	Q	7	18	37	9,064	Q	1,025	2,442	5,187
200,001 to 500,000	25	Q	Q	8	14	7,176	Q	Q	2,389	3,985
Over 500,000	7	Q	Q	2	4	5,908	Q	Q	1,748	3,448
Principal Building Activity										
Education	386	Q	28	107	248	9,874	Q	332	4,202	5,299
Food Sales	226	Q	Q	45	142	1,255	Q	Q	317	812
Food Service	297	Q	43	61	192	1,654	Q	276	362	1,004
Health Care	129	N	Q	45	72	3,163	N	Q	1,230	1,841
Inpatient	8	N	Q	3	5	1,905	N	Q	817	1,060
Outpatient	121	N	Q	42	67	1,258	N	Q	414	781
Lodging	142	N	56	33	53	5,096	N	1,298	1,524	2,274
Retail (Other Than Mall)	443	Q	63	126	254	4,317	Q	471	1,226	2,618
Office	824	N	144	274	406	12,208	N	1,088	4,585	6,535
Public Assembly	277	Q	74	76	114	3,939	Q	1,266	977	1,675
Public Order and Safety	71	Q	26	16	24	1,090	Q	137	242	691
Religious Worship	370	N	106	122	143	3,754	N	1,676	1,053	1,025
Service	622	43	149	113	316	4,050	145	617	825	2,463
Warehouse and Storage	597	187	165	65	180	10,078	990	2,410	1,328	5,351
Other	79	Q	Q	23	33	1,738	Q	Q	417	1,201
Vacant	182	169	Q	N	N	2,567	2,237	Q	N	N
Year Constructed										
Before 1920	330	30	117	81	102	3,769	241	1,264	1,132	1,132
1920 to 1945	527	57	113	124	233	6,871	557	1,417	1,731	3,166
1946 to 1959	562	50	125	134	253	7,045	410	1,295	2,026	3,313
1960 to 1969	579	36	131	133	279	8,101	383	1,456	2,437	3,824
1970 to 1979	731	45	106	199	380	10,772	524	1,117	3,487	5,645
1980 to 1989	707	61	131	167	348	10,332	309	1,193	3,077	5,752
1990 to 1999	876	96	159	192	429	12,360	610	1,653	3,074	7,024
2000 to 2003	334	57	47	77	153	5,533	469	808	1,324	2,933
Census Region										
Northeast	726	42	187	170	327	12,905	505	2,750	3,599	6,051
Midwest	1,266	145	279	355	488	17,080	1,247	2,753	5,299	7,781
South	1,775	201	281	357	936	23,489	1,293	3,189	6,134	12,874
West	878	44	182	227	425	11,310	458	1,512	3,256	6,083
Climate Zone: 30-Year Average										
Under 2,000 CDD and --										
More than 7,000 HDD	855	102	178	229	346	10,622	637	1,956	3,666	4,362
5,500-7,000 HDD	1,173	85	278	319	491	17,335	1,085	2,667	4,929	8,654
4,000-5,499 HDD	673	43	158	160	311	11,504	315	2,132	3,133	5,924
Fewer than 4,000 HDD	1,276	129	217	250	680	15,739	889	2,066	3,804	8,979
2,000 CDD or More and --										
Fewer than 4,000 HDD	669	72	98	150	348	9,584	576	1,382	2,756	4,870

Table B36. Percent of Floorspace Lit When Open, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Build-ings*	Not Lit [a]	1 to 50 Percent Lit	51 to 99 Percent Lit	100 Percent Lit	All Build-ings*	Not Lit [a]	1 to 50 Percent Lit	51 to 99 Percent Lit	100 Percent Lit
All Buildings*	4,645	432	929	1,108	2,176	64,783	3,503	10,203	18,288	32,789
Number of Floors										
One	3,136	361	533	656	1,585	25,981	1,985	3,655	5,594	14,747
Two	1,031	53	264	283	431	16,270	826	3,394	4,633	7,415
Three	339	Q	103	117	104	7,501	Q	1,561	2,505	3,107
Four to Nine	128	Q	28	47	51	10,085	Q	1,179	3,721	4,822
Ten or More	12	N	Q	4	6	4,947	N	Q	1,835	2,697
Number of Workers (main shift)										
Fewer than 5	2,653	426	726	497	1,003	15,492	3,412	4,560	2,585	4,935
5 to 9	778	Q	114	231	429	6,166	Q	1,741	1,651	2,751
10 to 19	563	Q	56	165	341	7,803	Q	1,512	2,155	4,124
20 to 49	398	Q	27	128	242	10,989	Q	1,235	3,297	6,427
50 to 99	147	Q	5	49	92	7,934	Q	678	2,915	4,314
100 to 249	77	N	Q	26	50	6,871	N	Q	2,337	4,453
250 or More	30	N	Q	10	19	9,528	N	Q	3,348	5,784
Weekly Operating Hours										
Fewer than 40	1,002	279	199	198	325	6,863	2,696	1,257	1,177	1,734
40 to 48	1,117	Q	240	293	561	11,622	Q	2,233	3,401	5,881
49 to 60	1,062	Q	216	282	549	15,723	Q	2,697	4,614	8,296
61 to 84	591	Q	88	164	328	10,334	Q	1,082	3,468	5,762
85 to 167	400	Q	58	86	226	7,092	Q	706	2,000	4,192
Open Continuously	475	76	127	85	187	13,149	368	2,228	3,629	6,924
Vacancy Status										
Completely Vacant	157	157	N	N	N	2,161	2,161	N	N	N
Mostly Vacant	25	Q	Q	N	N	406	Q	Q	N	N
Partially Vacant	548	69	145	137	197	12,382	321	2,146	4,399	5,516
Not At All Vacant	3,915	194	771	971	1,980	49,834	945	7,727	13,889	27,273
Energy Sources (more than one may apply)										
Electricity	4,404	190	929	1,108	2,176	63,307	2,026	10,203	18,288	32,789
Natural Gas	2,391	63	473	669	1,187	43,468	1,140	6,486	13,050	22,792
Fuel Oil	451	Q	109	127	205	15,157	Q	2,124	5,298	7,605
District Heat	67	Q	16	14	37	5,443	Q	313	1,896	3,106
District Chilled Water	33	Q	Q	10	21	2,853	Q	Q	1,128	1,541
Propane	502	Q	126	126	238	7,076	Q	1,167	1,964	3,735
Other	132	Q	Q	37	64	1,401	Q	Q	530	667
Energy End Uses (more than one may apply)										
Buildings with Space Heating	3,982	118	796	1,035	2,033	60,028	1,510	9,295	17,648	31,575
Buildings with Cooling	3,625	61	698	976	1,890	56,940	713	8,535	17,132	30,559
Buildings with Water Heating	3,472	72	689	948	1,764	56,478	932	8,621	17,130	29,795
Buildings with Cooking	801	Q	138	231	425	22,237	Q	2,817	7,918	11,367
Buildings with Manufacturing	119	Q	16	35	67	3,138	Q	574	957	1,566
Buildings with Electricity Generation	149	Q	19	55	75	12,821	Q	877	4,895	6,941
Percent of Floorspace Heated										
Not Heated	663	314	133	73	143	4,756	1,993	909	640	1,214
1 to 50	523	31	247	87	157	6,850	343	2,916	1,248	2,343
51 to 99	498	Q	83	263	137	8,107	Q	1,046	4,132	2,863
100	2,962	71	466	685	1,739	45,071	1,102	5,333	12,267	26,370

Table B36. Percent of Floorspace Lit When Open, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Build-ings*	Not Lit [a]	1 to 50 Percent Lit	51 to 99 Percent Lit	100 Percent Lit	All Build-ings*	Not Lit [a]	1 to 50 Percent Lit	51 to 99 Percent Lit	100 Percent Lit
All Buildings*	4,645	432	929	1,108	2,176	64,783	3,503	10,203	18,288	32,789
Percent of Floorspace Cooled										
Not Cooled	1,020	371	231	132	286	7,843	2,790	1,668	1,156	2,229
1 to 50	985	24	378	210	374	16,598	414	4,053	3,820	8,311
51 to 99	629	Q	89	304	228	13,211	Q	1,755	6,366	5,055
100	2,011	29	231	462	1,289	27,132	264	2,727	6,947	17,194
Percent Lit When Closed										
Zero	1,964	132	483	442	907	17,385	1,147	3,954	3,842	8,442
1 to 50	1,882	32	299	564	987	30,948	777	3,871	10,447	15,853
51 to 100	136	Q	Q	18	96	2,093	Q	Q	370	1,570
Building Never Closed/ Electricity Not Used	664	265	127	85	187	14,357	1,576	2,228	3,629	6,924
Lighting Equipment Types (more than one may apply)										
Incandescent	2,184	Q	506	673	990	38,528	Q	6,483	12,947	18,667
Standard Fluorescent	3,943	28	814	1,053	2,048	59,688	714	9,412	17,816	31,745
Compact Fluorescent	941	Q	202	290	445	27,571	Q	3,456	9,855	14,115
High Intensity Discharge	455	Q	61	147	238	20,643	Q	1,947	7,153	11,234
Halogen	565	Q	99	174	286	17,703	Q	2,425	6,112	9,110
Other	8	N	Q	Q	Q	269	N	Q	Q	Q
Window and Interior Lighting Features (more than one may apply)										
Multipaned Windows	2,201	75	455	648	1,023	38,910	752	5,918	12,356	19,884
Tinted Window Glass	1,323	28	227	375	694	29,887	883	3,412	9,365	16,227
Reflective Window Glass	308	Q	74	79	146	8,544	Q	915	2,766	4,735
External Overhangs or Awnings	1,233	40	217	351	625	17,242	275	2,143	5,599	9,224
Skylights or Atriums	331	Q	69	104	143	12,546	Q	1,452	4,360	6,612
Daylighting Sensors	74	Q	21	24	28	2,868	Q	347	930	1,562
Specular Reflectors	928	Q	159	294	464	26,118	Q	2,945	8,622	14,233
Electronic Ballasts	2,577	14	493	732	1,337	46,882	481	6,236	14,735	25,429
Energy Management and Control System (EMCS) For Lighting	60	N	Q	14	44	4,781	N	Q	1,650	2,884
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[p]										
Heating	2,878	79	571	771	1,457	42,722	1,034	6,656	12,937	22,095
Cooling	2,761	43	535	749	1,434	43,205	545	6,621	13,352	22,687
Lighting	3,685	N	749	1,007	1,930	46,987	N	7,465	14,401	25,121
Office Equipment	1,504	Q	319	372	798	19,397	Q	3,496	5,299	10,336

Table B36. Percent of Floorspace Lit When Open, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Build-ings*	Not Lit [a]	1 to 50 Percent Lit	51 to 99 Percent Lit	100 Percent Lit	All Build-ings*	Not Lit [a]	1 to 50 Percent Lit	51 to 99 Percent Lit	100 Percent Lit
All Buildings*	4,645	432	929	1,108	2,176	64,783	3,503	10,203	18,288	32,789

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] "Not Lit" includes buildings that were zero percent lit when open, buildings that were never open, and buildings that did not use any electricity.

[b] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B37. Heated, Cooled, and Lit Buildings, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
		Heated Buildings		Cooled Buildings		Lit Buildings [c]	
	Total Floorspace in All Buildings*	Total Floor-space [a]	Heated Floor-space [b]	Total Floor-space [a]	Cooled Floor-space [b]	Total Floor-space [a]	Lit Floor-space [b]
All Buildings*	64,783	60,028	53,473	56,940	41,788	62,060	51,342
Building Floorspace (Square Feet)							
1,001 to 5,000	6,789	5,668	4,988	5,007	4,017	6,038	4,826
5,001 to 10,000	6,585	5,786	5,010	5,408	3,978	6,090	4,974
10,001 to 25,000	11,535	10,387	8,865	9,922	6,927	11,229	8,618
25,001 to 50,000	8,668	8,060	7,260	7,776	5,663	8,297	6,544
50,001 to 100,000	9,057	8,718	7,815	8,331	5,665	8,912	7,548
100,001 to 200,000	9,064	8,710	8,012	8,339	6,462	8,732	7,470
200,001 to 500,000	7,176	6,907	6,458	6,565	4,702	6,946	6,158
Over 500,000	5,908	5,792	5,065	5,591	4,375	5,816	5,204
Principal Building Activity							
Education	9,874	9,755	9,521	9,200	7,211	9,870	8,983
Food Sales	1,255	1,131	998	1,198	911	1,237	1,129
Food Service	1,654	1,608	1,415	1,583	1,325	1,650	1,391
Health Care	3,163	3,100	2,982	3,157	2,934	3,163	2,937
Inpatient	1,905	1,905	1,846	1,899	1,763	1,905	1,788
Outpatient	1,258	1,195	1,137	1,258	1,171	1,258	1,149
Lodging	5,096	4,994	4,719	4,841	4,082	5,096	3,901
Retail (Other Than Mall)	4,317	4,075	3,451	4,079	3,147	4,315	3,795
Office	12,208	11,929	11,184	12,032	10,721	12,208	10,846
Public Assembly	3,939	3,777	3,463	3,477	2,791	3,917	2,807
Public Order and Safety	1,090	1,083	1,043	1,043	884	1,074	940
Religious Worship	3,754	3,581	3,344	3,301	2,733	3,754	2,419
Service	4,050	3,687	3,202	3,261	1,504	3,911	3,348
Warehouse and Storage	10,078	8,126	5,341	7,295	2,074	9,125	7,136
Other	1,738	1,691	1,585	1,636	1,075	1,721	1,582
Vacant	2,567	1,491	1,226	836	396	1020	129
Year Constructed							
Before 1920	3,769	3,667	3,069	2,891	1,774	3,554	2,448
1920 to 1945	6,871	6,236	5,546	4,919	3,097	6,367	5,127
1946 to 1959	7,045	6,534	5,972	6,045	4,109	6,727	5,331
1960 to 1969	8,101	7,510	6,991	7,125	5,137	7,972	6,371
1970 to 1979	10,772	10,223	9,261	9,973	7,467	10,381	8,960
1980 to 1989	10,332	9,808	8,750	9,836	7,859	10,087	8,688
1990 to 1999	12,360	11,254	9,876	11,304	8,568	11,828	10,119
2000 to 2003	5,533	4,796	4,008	4,848	3,777	5,144	4,298
Census Region							
Northeast	12,905	12,596	11,393	10,954	7,080	12,559	9,957
Midwest	17,080	16,331	15,191	14,484	10,103	16,246	13,044
South	23,489	20,998	18,226	21,553	17,175	22,325	19,043
West	11,310	10,102	8,663	9,950	7,429	10,930	9,299
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	10,622	10,109	9,095	8,550	5,654	10,108	7,999
5,500-7,000 HDD	17,335	16,720	15,635	14,524	10,287	16,676	13,715
4,000-5,499 HDD	11,504	11,239	9,961	10,946	7,760	11,228	9,235
Fewer than 4,000 HDD	15,739	13,965	12,120	13,977	10,810	14,947	12,821
2,000 CDD or More and --							
Fewer than 4,000 HDD	9,584	7,995	6,661	8,943	7,278	9,102	7,572

Table B37. Heated, Cooled, and Lit Buildings, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
		Heated Buildings		Cooled Buildings		Lit Buildings [c]	
	Total Floorspace in All Buildings*	Total Floor-space [a]	Heated Floor-space [b]	Total Floor-space [a]	Cooled Floor-space [b]	Total Floor-space [a]	Lit Floor-space [b]
All Buildings*	64,783	60,028	53,473	56,940	41,788	62,060	51,342
Number of Floors							
One	25,981	22,744	19,672	21,419	14,604	24,288	20,535
Two	16,270	15,408	13,614	14,544	10,315	15,752	12,377
Three	7,501	7,198	6,477	6,437	4,841	7,242	5,705
Four to Nine	10,085	9,744	9,115	9,673	7,685	9,831	8,300
Ten or More	4,947	4,933	4,595	4,867	4,343	4,947	4,425
Number of Workers (main shift)							
Fewer than 5	15,492	12,182	10,134	9,591	6,482	12,835	8,434
5 to 9	6,166	5,822	4,977	5,726	3,991	6,143	4,622
10 to 19	7,803	7,410	6,455	7,304	4,709	7,791	6,400
20 to 49	10,989	10,822	9,727	10,566	7,410	10,959	9,559
50 to 99	7,934	7,650	7,055	7,428	5,565	7,934	7,015
100 to 249	6,871	6,766	6,361	6,806	5,627	6,871	6,497
250 or More	9,528	9,376	8,765	9,519	8,004	9,528	8,815
Weekly Operating Hours							
Fewer than 40	6,863	5,246	4,505	3,998	3,000	4,922	3,149
40 to 48	11,622	10,928	9,706	10,508	7,649	11,515	9,402
49 to 60	15,723	14,763	12,900	13,757	9,687	15,625	12,909
61 to 84	10,334	10,012	8,917	9,691	6,780	10,312	9,037
85 to 167	7,092	6,680	5,944	6,708	4,592	6,906	6,143
Open Continuously	13,149	12,399	11,502	12,277	10,081	12,781	10,703
Vacancy Status							
Completely Vacant	2,161	1,222	1,016	585	286	676	36
Mostly Vacant	406	Q	Q	Q	Q	Q	Q
Partially Vacant	12,382	11,491	10,179	11,084	8,430	12,062	9,884
Not At All Vacant	49,834	47,046	42,069	45,019	32,962	48,978	41,330
Energy Sources (more than one may apply)							
Electricity	63,307	59,991	53,450	56,925	41,787	62,060	51,342
Natural Gas	43,468	42,974	38,973	41,023	29,979	42,950	35,822
Fuel Oil	15,157	14,942	13,695	13,890	10,538	15,037	12,744
District Heat	5,443	5,378	5,259	4,653	4,100	5,319	4,818
District Chilled Water	2,853	2,734	2,630	2,853	2,682	2,819	2,518
Propane	7,076	6,790	5,768	5,713	3,373	6,990	5,718
Other	1,401	1,399	1,296	1,225	783	1,370	1,158
Space-Heating Energy Sources (more than one may apply)							
Electricity	28,600	28,600	24,717	27,509	20,877	28,358	23,659
Natural Gas	36,959	36,959	33,306	34,725	24,924	36,482	30,599
Fuel Oil	5,988	5,988	5,346	4,804	2,839	5,954	4,561
District Heat	5,198	5,198	5,079	4,408	3,894	5,074	4,589
Propane	3,204	3,204	2,779	2,499	1,672	3,143	2,443
Other	842	842	756	667	347	811	698
Primary Space-Heating Energy Source							
Electricity	15,996	15,996	13,314	15,562	12,446	15,887	13,338
Natural Gas	32,970	32,970	29,900	30,808	21,977	32,500	27,190
Fuel Oil	3,818	3,818	3,384	2,836	1,425	3,800	2,717
District Heat	4,907	4,907	4,805	4,147	3,683	4,783	4,305
Propane	1,955	1,955	1,721	1,553	1,027	1,894	1,516
Other	382	382	349	282	135	351	313

Table B37. Heated, Cooled, and Lit Buildings, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
		Heated Buildings		Cooled Buildings		Lit Buildings [c]	
	Total Floorspace in All Buildings*	Total Floor-space [a]	Heated Floor-space [b]	Total Floor-space [a]	Cooled Floor-space [b]	Total Floor-space [a]	Lit Floor-space [b]
All Buildings*	64,783	60,028	53,473	56,940	41,788	62,060	51,342
Cooling Energy Sources (more than one may apply)							
Electricity	54,321	52,584	46,884	54,321	39,413	54,056	45,376
Natural Gas	1,018	1,018	958	1,018	904	1,018	882
District Chilled Water	2,853	2,734	2,630	2,853	2,682	2,819	2,518
Energy End Uses (more than one may apply)							
Buildings with Space Heating	60,028	60,028	53,473	55,188	40,694	59,215	49,379
Buildings with Cooling	56,940	55,188	49,335	56,940	41,788	56,661	47,647
Buildings with Water Heating	56,478	55,154	49,850	53,232	39,678	56,011	46,938
Buildings with Cooking	22,237	21,725	20,737	21,451	17,514	22,166	18,993
Buildings with Manufacturing	3,138	3,072	2,451	2,655	1,206	3,097	2,537
Buildings with Electricity Generation	12,821	12,635	11,902	12,746	10,689	12,745	11,468
Percent of Floorspace Heated							
Not Heated	4,756	N	N	1,752	1,095	2,845	1,963
1 to 50	6,850	6,850	1,844	6,013	1,958	6,665	4,279
51 to 99	8,107	8,107	6,558	7,768	5,216	8,064	6,590
100	45,071	45,071	45,071	41,407	33,519	44,486	38,510
Percent of Floorspace Cooled							
Not Cooled	7,843	4,839	4,138	N	N	5,400	3,695
1 to 50	16,598	15,852	11,652	16,598	3,957	16,479	12,756
51 to 99	13,211	12,888	11,704	13,211	10,699	13,197	10,948
100	27,132	26,448	25,978	27,132	27,132	26,984	23,943
Percent Lit When Open							
Zero	293	Q	Q	Q	Q	Q	Q
1 to 50	10,203	9,295	6,974	8,535	5,094	10,203	3,454
51 to 99	18,288	17,648	16,043	17,132	13,144	18,288	15,056
100	32,789	31,575	29,245	30,559	23,192	32,789	32,789
Building Never Open/ Electricity Not Used	3,210	1,443	1,172	658	323	754	43
Percent Lit When Closed							
Zero	17,385	15,724	13,502	13,741	9,332	16,238	12,794
1 to 50	30,948	29,929	26,641	28,899	20,816	30,948	25,794
51 to 100	2,093	1,939	1,805	2,008	1,559	2,093	2,051
Building Never Closed/ Electricity Not Used	14,357	12,436	11,525	12,292	10,082	12,781	10,703
Heating Equipment (more than one may apply)							
Heat Pumps	8,814	8,814	8,030	8,780	7,334	8,791	7,742
Packaged Heat Pumps	5,442	5,442	4,994	5,430	4,638	5,419	4,859
Split-System Heat Pumps	2,581	2,581	2,288	2,559	1,959	2,581	2,242
Individual Room Heat Pumps	2,691	2,691	2,572	2,691	2,410	2,691	2,346
Furnaces	19,615	19,615	17,143	17,494	11,616	19,373	15,496
Individual Space Heaters	12,545	12,545	10,714	11,526	7,689	12,380	9,869
District Heat	5,166	5,166	5,047	4,376	3,862	5,042	4,559
Boilers	20,423	20,423	19,351	19,051	14,256	20,201	17,076
Packaged Heating Units	18,021	18,021	15,675	17,745	13,374	17,831	15,311
Other	3,262	3,262	2,939	2,961	2,050	3,213	2,792

Table B37. Heated, Cooled, and Lit Buildings, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
		Heated Buildings		Cooled Buildings		Lit Buildings [c]	
	Total Floorspace in All Buildings*	Total Floor-space [a]	Heated Floor-space [b]	Total Floor-space [a]	Cooled Floor-space [b]	Total Floor-space [a]	Lit Floor-space [b]
All Buildings*	64,783	60,028	53,473	56,940	41,788	62,060	51,342
Cooling Equipment (more than one may apply)							
Residential-Type Central Air Conditioners	11,035	10,617	9,180	11,035	7,204	10,960	8,820
Heat Pumps	9,041	8,921	8,119	9,041	7,402	9,024	7,951
Packaged Heat Pumps	5,426	5,407	4,955	5,426	4,589	5,410	4,810
Split-System Heat Pumps	2,606	2,559	2,305	2,606	2,008	2,606	2,278
Individual Room Heat Pumps	2,940	2,887	2,702	2,940	2,496	2,940	2,599
Individual Air Conditioners	12,558	12,167	10,791	12,558	7,516	12,483	9,656
District Chilled Water	2,853	2,734	2,630	2,853	2,682	2,819	2,518
Central Chillers	11,636	11,440	11,008	11,636	10,637	11,630	10,490
Packaged Air Conditioning Units	29,969	29,007	26,093	29,969	21,903	29,862	25,304
Swamp Coolers	1,561	1,451	1,324	1,561	1,104	1,553	1,348
Other	1,232	1,203	1,103	1,232	1,025	1,217	1,094
Main Equipment Replaced Since 1990 (more than one may apply)							
Heating	16,403	16,403	14,365	15,190	10,741	16,150	13,014
Cooling	20,995	20,633	18,501	20,995	14,869	20,907	16,996
Lighting Equipment Types (more than one may apply)							
Incandescent	38,528	37,220	34,075	36,075	27,809	38,528	31,489
Standard Fluorescent	59,688	57,351	51,219	55,117	40,412	59,688	49,691
Compact Fluorescent	27,571	26,835	24,856	26,790	21,266	27,571	23,610
High Intensity Discharge	20,643	20,093	17,940	19,054	13,107	20,643	17,913
Halogen	17,703	17,042	15,387	17,115	13,358	17,703	14,999
Other	269	Q	Q	269	256	269	244
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	19,597	19,108	17,874	19,255	16,191	19,419	17,205
Economizer Cycle	21,108	20,828	19,603	21,108	17,656	21,030	18,732
HVAC Maintenance	51,163	49,812	45,250	47,935	36,163	50,732	43,125
Energy Management and Control System (EMCS)	15,630	15,457	14,644	15,358	13,119	15,544	14,225
Window and Interior Lighting Features (more than one may apply)							
Multipaned Windows	38,910	38,065	34,478	36,420	27,363	38,424	32,135
Tinted Window Glass	29,887	28,570	25,611	27,941	21,645	29,365	25,280
Reflective Window Glass	8,544	8,403	7,621	8,349	6,716	8,425	7,372
External Overhangs or Awnings	17,242	16,556	14,809	16,380	12,179	17,087	14,640
Skylights or Atriums	12,546	12,217	10,979	12,126	8,539	12,486	10,799
Daylighting Sensors	2,868	2,728	2,541	2,819	2,280	2,868	2,444
Specular Reflectors	26,118	25,389	23,288	24,724	18,587	26,118	22,443
Electronic Ballasts	46,882	45,351	40,872	43,881	32,693	46,882	39,880
Energy Management and Control System (EMCS) For Lighting	4,781	4,729	4,424	4,755	4,132	4,781	4,390

Table B37. Heated, Cooled, and Lit Buildings, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
		Heated Buildings		Cooled Buildings		Lit Buildings [c]	
	Total Floorspace in All Buildings*	Total Floor-space [a]	Heated Floor-space [b]	Total Floor-space [a]	Cooled Floor-space [b]	Total Floor-space [a]	Lit Floor-space [b]
All Buildings*	64,783	60,028	53,473	56,940	41,788	62,060	51,342
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[d]							
Heating	42,722	42,722	38,310	39,864	29,378	42,305	35,145
Cooling	43,205	41,977	37,643	43,205	31,409	42,977	35,950
Lighting	46,987	44,799	39,632	42,589	30,335	46,987	39,386
Office Equipment	19,397	18,638	16,582	17,749	12,294	19,349	15,788

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] "Total Floorspace" refers to all floorspace in heated, cooled, or lit buildings, including the floorspace that was not heated, cooled, or lit.

[b] "Heated Floorspace," "Cooled Floorspace," and "Lit Floorspace" refer only to the portion of the floorspace in these buildings that was reported to be heated, cooled, or lit.

[c] Data in "Lit Buildings" are for buildings lit when open or closed. The definition for these columns has changed since the original table release, when they excluded buildings that were lit when closed but not lit when open.

[d] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See Description of Detailed Tables for explanation of the differences (web address given below).

Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B38. Heating Equipment, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
			Heating Equipment (more than one may apply)						
	All Buildings*	Heated Buildings	Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other
All Buildings*	4,645	3,982	476	1,864	819	65	579	953	205
Building Floorspace (Square Feet)									
1,001 to 5,000	2,552	2,100	258	1,039	415	Q	162	423	121
5,001 to 10,000	889	782	63	391	170	Q	105	214	Q
10,001 to 25,000	738	659	86	307	142	18	138	170	28
25,001 to 50,000	241	225	33	76	49	9	78	69	13
50,001 to 100,000	129	123	21	30	25	8	49	47	6
100,001 to 200,000	65	62	9	15	12	9	31	20	Q
200,001 to 500,000	25	24	5	5	5	4	13	7	2
Over 500,000	7	6	1	1	1	2	3	2	Q
Principal Building Activity									
Education	386	382	66	111	67	25	84	99	Q
Food Sales	226	188	Q	77	Q	N	Q	46	Q
Food Service	297	282	26	125	28	Q	36	103	Q
Health Care	129	124	22	61	21	1	22	28	Q
Inpatient	8	8	Q	Q	1	1	6	3	Q
Outpatient	121	116	19	58	19	Q	16	25	Q
Lodging	142	142	25	31	57	Q	42	31	Q
Retail (Other Than Mall)	443	408	42	227	75	Q	30	97	Q
Office	824	802	113	362	157	16	123	214	33
Public Assembly	277	258	24	120	46	6	48	56	Q
Public Order and Safety	71	70	Q	41	Q	Q	13	16	Q
Religious Worship	370	359	54	193	71	Q	73	63	Q
Service	622	515	29	288	131	Q	49	96	60
Warehouse and Storage	597	316	32	156	98	Q	25	68	Q
Other	79	67	Q	35	17	Q	16	20	Q
Vacant	182	69	Q	36	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	330	302	Q	151	65	Q	105	25	Q
1920 to 1945	527	442	31	235	72	12	103	63	Q
1946 to 1959	562	493	44	259	120	13	98	79	Q
1960 to 1969	579	524	50	242	114	13	82	106	24
1970 to 1979	731	648	82	330	130	6	65	176	40
1980 to 1989	707	618	102	252	119	4	43	209	40
1990 to 1999	876	719	120	299	152	8	56	226	35
2000 to 2003	334	236	39	96	47	Q	27	70	15
Census Region									
Northeast	726	672	47	310	122	17	227	95	22
Midwest	1,266	1,112	45	736	242	13	175	151	80
South	1,775	1,462	304	467	271	20	88	532	56
West	878	735	80	352	185	15	89	175	47
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	855	752	28	474	172	6	178	90	60
5,500-7,000 HDD	1,173	1,055	68	615	215	27	198	147	54
4,000-5,499 HDD	673	626	81	297	149	13	112	122	Q
Fewer than 4,000 HDD	1,276	1,051	213	368	220	12	64	356	45
2,000 CDD or More and --									
Fewer than 4,000 HDD	669	498	86	110	64	7	27	238	22

Table B38. Heating Equipment, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
			Heating Equipment (more than one may apply)						
	All Buildings*	Heated Buildings	Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other
All Buildings*	4,645	3,982	476	1,864	819	65	579	953	205
Number of Floors									
One	3,136	2,566	334	1,193	550	14	190	682	140
Two	1,031	960	97	487	174	19	194	207	50
Three	339	319	31	155	68	10	119	41	Q
Four to Nine	128	125	11	28	25	19	69	20	4
Ten or More	12	12	3	Q	2	3	6	3	1
Number of Workers (main shift)									
Fewer than 5	2,653	2,080	236	1,013	470	Q	216	366	125
5 to 9	778	733	89	399	120	Q	88	186	Q
10 to 19	563	536	64	244	102	Q	81	165	28
20 to 49	398	387	42	152	86	16	94	137	19
50 to 99	147	141	23	40	22	7	51	58	5
100 to 249	77	76	16	12	14	9	34	33	Q
250 or More	30	29	5	4	5	5	15	9	3
Weekly Operating Hours									
Fewer than 40	1,002	751	89	375	161	Q	72	132	40
40 to 48	1,117	1,037	131	506	236	12	145	227	55
49 to 60	1,062	965	102	481	197	18	141	226	48
61 to 84	591	535	67	255	84	11	93	132	25
85 to 167	400	331	31	122	48	9	49	129	Q
Open Continuously	475	364	55	125	93	10	79	107	24
Multibuilding Facility									
Not Part of a Multibuilding Facility	3,169	2,835	281	1,434	563	Q	405	696	153
College or University	83	80	10	Q	6	29	26	6	Q
Primary or Secondary School	254	243	47	68	59	Q	31	67	Q
Office Complex	111	101	21	31	17	Q	16	31	Q
Retail Complex	151	110	Q	51	34	N	Q	19	Q
Religious Campus or Complex	195	186	33	73	28	Q	42	42	Q
Health Care Complex	39	36	7	14	4	Q	10	10	Q
Lodging or Resort Complex	61	58	9	Q	23	Q	7	16	Q
Government Complex	87	70	Q	28	15	4	14	21	Q
Other	496	262	45	137	69	Q	23	44	18
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	1,018	953	95	471	217	18	221	206	37
Addition or Annex	256	246	29	135	61	2	62	59	Q
Reduction In Floorspace	22	22	Q	Q	Q	Q	8	Q	Q
Cosmetic Improvements	741	699	79	344	156	10	171	159	23
Wall or Roof Replacement	370	348	33	161	70	9	96	82	Q
Interior Wall Re-Configuration	411	395	29	204	106	7	106	84	Q
HVAC Equipment Upgrade	442	427	48	214	97	9	126	100	10
Lighting Upgrade	455	425	44	198	97	15	124	101	12
Window Replacement	310	295	26	145	89	6	91	55	Q
Plumbing System Upgrade	315	300	26	151	72	8	85	69	Q
Insulation Upgrade	227	217	15	128	45	3	48	40	Q
Other Renovation	19	19	Q	Q	Q	Q	9	Q	N
No Renovations Since 1980	1,710	1,455	119	746	284	33	232	242	78
Building Newer than 1980	1,917	1,573	261	647	318	14	126	504	89

Table B38. Heating Equipment, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
			Heating Equipment (more than one may apply)						
	All Buildings*	Heated Buildings	Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other
All Buildings*	4,645	3,982	476	1,864	819	65	579	953	205
Energy Sources (more than one may apply)									
Electricity	4,404	3,971	476	1,860	819	65	579	953	198
Natural Gas	2,391	2,344	152	1,314	429	24	432	586	85
Fuel Oil	451	443	21	211	94	4	178	54	40
District Heat	67	67	2	Q	5	65	Q	3	Q
District Chilled Water	33	32	Q	Q	Q	24	5	5	Q
Propane	502	489	44	259	162	Q	55	101	44
Other	132	132	Q	73	46	Q	24	17	48
Space-Heating Energy Sources (more than one may apply)									
Electricity	1,766	1,766	466	554	604	6	161	572	116
Natural Gas	2,165	2,165	124	1,273	399	4	397	529	80
Fuel Oil	360	360	6	188	79	Q	144	17	36
District Heat	65	65	2	Q	4	65	Q	3	Q
Propane	372	372	28	212	122	Q	30	79	40
Other	113	113	Q	65	40	N	18	Q	47
Primary Space-Heating Energy Source									
Electricity	1,258	1,258	371	296	305	Q	58	427	60
Natural Gas	1,999	1,999	85	1,212	361	Q	373	456	69
Fuel Oil	282	282	Q	145	39	N	121	Q	Q
District Heat	63	63	1	Q	4	63	Q	2	Q
Propane	308	308	Q	176	89	Q	Q	63	Q
Other	72	72	Q	Q	Q	N	Q	Q	Q
Energy End Uses (more than one may apply)									
Buildings with Space Heating	3,982	3,982	476	1,864	819	65	579	953	205
Buildings with Cooling	3,625	3,469	469	1,581	685	53	485	932	154
Buildings with Water Heating	3,472	3,337	397	1,585	657	59	546	828	172
Buildings with Cooking	801	764	92	314	131	9	184	241	30
Buildings with Manufacturing	119	111	9	57	39	Q	26	29	Q
Buildings with Electricity Generation	149	148	26	55	38	6	62	50	8
Percent of Floorspace Heated									
Not Heated	663	N	N	N	N	N	N	N	N
1 to 50	523	523	37	240	178	Q	30	109	29
51 to 99	498	498	61	241	114	5	77	138	22
100	2,962	2,962	378	1,383	527	58	472	706	153
Heating Equipment (more than one may apply)									
Heat Pumps	476	476	476	71	56	2	33	52	16
Packaged Heat Pumps	278	278	278	38	26	Q	18	36	Q
Split-System Heat Pumps	166	166	166	30	28	Q	9	17	Q
Individual Room Heat Pumps	58	58	58	9	9	Q	13	14	Q
Furnaces	1,864	1,864	71	1,864	334	Q	87	100	47
Individual Space Heaters	819	819	56	334	819	4	87	127	32
District Heat	65	65	2	Q	4	65	Q	3	Q
Boilers	579	579	33	87	87	Q	579	61	Q
Packaged Heating Units	953	953	52	100	127	3	61	953	19
Other	205	205	16	47	32	Q	Q	19	205

Table B38. Heating Equipment, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
			Heating Equipment (more than one may apply)						
	All Buildings*	Heated Buildings	Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other
All Buildings*	4,645	3,982	476	1,864	819	65	579	953	205
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	1,006	963	36	675	171	Q	127	184	29
Heat Pumps	492	481	448	85	57	2	39	51	16
Packaged Heat Pumps	288	287	263	48	27	Q	22	37	Q
Split-System Heat Pumps	174	163	154	34	28	Q	10	14	Q
Individual Room Heat Pumps	58	58	57	9	9	Q	14	14	Q
Individual Air Conditioners	742	718	41	302	321	12	169	102	47
District Chilled Water	33	32	Q	Q	Q	24	5	5	Q
Central Chillers	111	106	11	9	12	14	73	20	10
Packaged Air Conditioning Units	1,613	1,539	68	689	255	7	207	738	55
Swamp Coolers	122	103	Q	65	36	Q	22	16	Q
Other	40	39	Q	Q	Q	Q	9	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	1,197	1,197	145	602	268	Q	179	288	49
Cooling	1,356	1,315	156	642	288	13	249	299	50
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	466	441	51	167	78	25	110	142	20
Economizer Cycle	508	497	68	155	83	21	133	186	25
HVAC Maintenance	2,581	2,491	334	1,167	375	59	468	650	104
Energy Management and Control System (EMCS)	252	245	52	43	39	17	72	85	17
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	2,878	2,878	336	1,385	648	30	396	695	143
Cooling	2,761	2,650	343	1,221	571	28	369	719	111
Lighting	3,685	3,397	402	1,649	685	49	481	800	156
Office Equipment	1,504	1,445	184	707	284	22	211	361	70

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B39. Heating Equipment, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
			Heating Equipment (more than one may apply)						
	All Buildings*	Heated Buildings	Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other
All Buildings*	64,783	60,028	8,814	19,615	12,545	5,166	20,423	18,021	3,262
Building Floorspace (Square Feet)									
1,001 to 5,000	6,789	5,668	685	2,902	1,047	Q	461	1,159	330
5,001 to 10,000	6,585	5,786	462	2,891	1,282	Q	773	1,599	Q
10,001 to 25,000	11,535	10,387	1,400	4,653	2,129	289	2,164	2,765	456
25,001 to 50,000	8,668	8,060	1,150	2,761	1,748	325	2,829	2,449	419
50,001 to 100,000	9,057	8,718	1,524	2,086	1,819	549	3,497	3,328	450
100,001 to 200,000	9,064	8,710	1,245	1,974	1,625	1,365	4,283	2,797	Q
200,001 to 500,000	7,176	6,907	1,295	1,456	1,313	1,010	3,844	2,156	514
Over 500,000	5,908	5,792	1,053	891	1,582	1,528	2,573	1,769	Q
Principal Building Activity									
Education	9,874	9,755	1,787	1,855	1,500	1,106	5,171	2,596	Q
Food Sales	1,255	1,131	Q	567	Q	N	Q	422	Q
Food Service	1,654	1,608	168	675	186	Q	328	591	Q
Health Care	3,163	3,100	641	786	600	410	1,857	942	Q
Inpatient	1,905	1,905	424	386	409	353	1,477	672	Q
Outpatient	1,258	1,195	217	400	191	Q	380	270	Q
Lodging	5,096	4,994	1,183	1,065	1,462	Q	2,773	1,356	Q
Retail (Other Than Mall)	4,317	4,075	444	2,049	667	Q	383	1,397	Q
Office	12,208	11,929	1,795	2,405	2,186	1,526	4,117	3,754	970
Public Assembly	3,939	3,777	409	1,028	677	530	1,421	879	Q
Public Order and Safety	1,090	1,083	Q	260	Q	Q	437	328	Q
Religious Worship	3,754	3,581	577	1,945	875	Q	1,148	733	Q
Service	4,050	3,687	457	1,974	1,010	Q	791	957	393
Warehouse and Storage	10,078	8,126	913	3,757	2,457	Q	1,031	3,118	Q
Other	1,738	1,691	Q	700	311	Q	546	498	Q
Vacant	2,567	1,491	Q	550	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	3,769	3,667	Q	1,350	782	Q	1,926	390	Q
1920 to 1945	6,871	6,236	622	2,085	1,427	1,203	2,744	979	Q
1946 to 1959	7,045	6,534	848	2,475	1,442	661	3,081	1,422	Q
1960 to 1969	8,101	7,510	827	2,346	1,469	786	2,957	1,993	242
1970 to 1979	10,772	10,223	1,378	3,612	2,393	573	3,339	3,443	779
1980 to 1989	10,332	9,808	2,018	2,418	1,799	780	2,803	3,816	641
1990 to 1999	12,360	11,254	1,974	3,971	2,433	691	2,257	4,067	814
2000 to 2003	5,533	4,796	999	1,359	800	Q	1,316	1,911	401
Census Region									
Northeast	12,905	12,596	1,213	3,596	2,786	1,245	6,228	2,912	579
Midwest	17,080	16,331	1,058	7,229	4,169	1,623	6,141	3,666	820
South	23,489	20,998	4,942	5,715	3,608	1,683	4,393	8,130	1,381
West	11,310	10,102	1,600	3,075	1,981	615	3,662	3,312	481
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	10,622	10,109	727	4,587	3,014	801	4,060	2,126	816
5,500-7,000 HDD	17,335	16,720	1,471	6,411	3,582	1,749	6,835	3,708	674
4,000-5,499 HDD	11,504	11,239	1,971	2,648	2,524	1,266	4,693	3,204	497
Fewer than 4,000 HDD	15,739	13,965	3,283	4,313	2,569	918	3,334	5,619	525
2,000 CDD or More and --									
Fewer than 4,000 HDD	9,584	7,995	1,361	1,658	856	432	1,500	3,365	750

Table B39. Heating Equipment, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
			Heating Equipment (more than one may apply)						
	All Buildings*	Heated Buildings	Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other
All Buildings*	64,783	60,028	8,814	19,615	12,545	5,166	20,423	18,021	3,262
Number of Floors									
One	25,981	22,744	3,440	9,476	4,914	Q	3,267	8,267	1,236
Two	16,270	15,408	2,146	6,368	2,908	501	5,116	4,671	874
Three	7,501	7,198	1,139	2,231	1,709	385	3,856	1,822	Q
Four to Nine	10,085	9,744	1,146	1,054	2,087	2,350	5,793	1,987	426
Ten or More	4,947	4,933	943	Q	927	1,298	2,391	1,273	502
Number of Workers (main shift)									
Fewer than 5	15,492	12,182	1,196	5,347	2,782	Q	1,986	2,269	544
5 to 9	6,166	5,822	647	3,043	938	Q	1,140	1,571	Q
10 to 19	7,803	7,410	932	3,057	1,542	Q	1,884	2,209	394
20 to 49	10,989	10,822	1,460	3,814	2,364	653	3,588	3,526	799
50 to 99	7,934	7,650	1,398	1,899	1,628	460	3,556	2,835	372
100 to 249	6,871	6,766	1,513	1,290	1,300	972	3,401	2,736	Q
250 or More	9,528	9,376	1,668	1,165	1,991	2,063	4,869	2,874	808
Weekly Operating Hours									
Fewer than 40	6,863	5,246	550	2,374	1,106	Q	1,023	1,058	239
40 to 48	11,622	10,928	1,623	3,978	2,013	493	3,381	3,119	479
49 to 60	15,723	14,763	1,910	4,950	3,172	1,576	4,113	4,185	949
61 to 84	10,334	10,012	1,545	3,426	1,810	760	3,491	2,806	804
85 to 167	7,092	6,680	818	1,989	1,476	773	1,974	2,690	Q
Open Continuously	13,149	12,399	2,367	2,899	2,969	1,384	6,441	4,163	449
Multibuilding Facility									
Not Part of a Multibuilding Facility	40,048	37,438	4,995	14,226	7,979	1,144	11,924	12,056	1,874
College or University	3,480	3,456	324	Q	279	1,977	1,175	440	Q
Primary or Secondary School	3,947	3,910	911	818	637	Q	1,691	1,168	Q
Office Complex	2,712	2,665	455	212	626	Q	1,055	992	Q
Retail Complex	1,238	941	Q	422	271	N	Q	280	Q
Religious Campus or Complex	2,347	2,245	320	731	302	Q	988	406	Q
Health Care Complex	2,303	2,231	543	489	413	409	1,551	655	Q
Lodging or Resort Complex	912	830	251	Q	380	Q	356	302	Q
Government Complex	2,014	1,987	Q	319	273	Q	610	463	Q
Other	5,783	4,325	696	2,019	1,384	Q	1,024	1,259	568
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	17,844	17,204	2,367	5,768	4,345	1,644	8,140	5,138	548
Addition or Annex	6,551	6,439	1,187	2,481	1,627	435	3,417	1,982	Q
Reduction In Floorspace	1,012	1,012	Q	Q	Q	Q	698	Q	Q
Cosmetic Improvements	13,119	12,739	1,687	4,128	3,186	1,169	6,277	3,773	346
Wall or Roof Replacement	8,070	7,919	1,141	2,258	2,080	833	4,224	2,478	Q
Interior Wall Re-Configuration	8,518	8,385	1,144	2,539	2,330	1,007	4,470	2,668	Q
HVAC Equipment Upgrade	10,768	10,634	1,765	3,438	2,925	1,262	5,534	3,539	361
Lighting Upgrade	10,275	10,049	1,441	2,892	2,563	1,283	5,421	3,036	288
Window Replacement	6,354	6,157	788	1,973	1,680	686	3,361	1,763	Q
Plumbing System Upgrade	7,144	6,988	1,042	2,063	1,891	924	3,891	2,293	Q
Insulation Upgrade	4,015	3,974	516	1,664	1,192	351	1,735	1,526	Q
Other Renovation	523	497	Q	Q	Q	Q	302	Q	N
No Renovations Since 1980	18,714	16,967	1,456	6,100	3,167	1,862	5,907	3,089	859
Building Newer than 1980	28,225	25,857	4,991	7,747	5,032	1,660	6,376	9,794	1,856

Table B39. Heating Equipment, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
			Heating Equipment (more than one may apply)						
	All Buildings*	Heated Buildings	Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other
All Buildings*	64,783	60,028	8,814	19,615	12,545	5,166	20,423	18,021	3,262
Energy Sources (more than one may apply)									
Electricity	63,307	59,991	8,814	19,604	12,540	5,166	20,423	18,021	3,242
Natural Gas	43,468	42,974	5,552	15,304	8,969	2,291	18,174	13,618	1,801
Fuel Oil	15,157	14,942	2,417	3,330	3,236	1,592	8,930	3,862	1,095
District Heat	5,443	5,378	413	Q	605	5,166	Q	589	Q
District Chilled Water	2,853	2,734	Q	Q	Q	2,231	391	370	Q
Propane	7,076	6,790	944	2,831	1,968	Q	1,949	1,983	599
Other	1,401	1,399	Q	617	448	Q	613	296	405
Space-Heating Energy Sources (more than one may apply)									
Electricity	28,600	28,600	8,688	8,653	9,838	1,088	7,766	11,947	2,139
Natural Gas	36,959	36,959	4,643	14,562	7,947	486	16,417	12,283	1,524
Fuel Oil	5,988	5,988	295	1,827	1,438	Q	4,355	593	265
District Heat	5,198	5,198	413	Q	560	5,166	Q	528	Q
Propane	3,204	3,204	516	1,946	1,178	Q	761	833	443
Other	842	842	Q	435	317	N	286	Q	384
Primary Space-Heating Energy Source									
Electricity	15,996	15,996	4,812	3,655	3,736	Q	2,115	6,767	1,286
Natural Gas	32,970	32,970	3,430	13,476	6,907	Q	15,138	10,115	1,275
Fuel Oil	3,818	3,818	Q	1,153	739	N	2,714	Q	Q
District Heat	4,907	4,907	388	Q	533	4,875	Q	466	Q
Propane	1,955	1,955	Q	1,140	522	Q	Q	469	Q
Other	382	382	Q	Q	Q	N	Q	Q	Q
Energy End Uses (more than one may apply)									
Buildings with Space Heating	60,028	60,028	8,814	19,615	12,545	5,166	20,423	18,021	3,262
Buildings with Cooling	56,940	55,188	8,780	17,494	11,526	4,376	19,051	17,745	2,961
Buildings with Water Heating	56,478	55,154	8,390	17,920	11,659	4,354	19,904	16,821	3,031
Buildings with Cooking	22,237	21,725	4,202	5,351	4,804	1,747	11,586	7,112	868
Buildings with Manufacturing	3,138	3,072	293	1,486	1,087	Q	1,145	1,087	Q
Buildings with Electricity Generation	12,821	12,635	2,580	2,377	2,750	1,953	6,863	4,166	915
Percent of Floorspace Heated									
Not Heated	4,756	N	N	N	N	N	N	N	N
1 to 50	6,850	6,850	670	2,852	2,055	Q	792	2,390	279
51 to 99	8,107	8,107	1,497	2,597	1,943	631	3,110	2,546	476
100	45,071	45,071	6,647	14,165	8,547	4,509	16,521	13,085	2,507
Heating Equipment (more than one may apply)									
Heat Pumps	8,814	8,814	8,814	2,117	1,861	413	2,787	3,069	358
Packaged Heat Pumps	5,442	5,442	5,442	1,125	1,114	Q	1,699	2,236	Q
Split-System Heat Pumps	2,581	2,581	2,581	774	872	Q	622	717	Q
Individual Room Heat Pumps	2,691	2,691	2,691	592	594	Q	1,227	1,376	Q
Furnaces	19,615	19,615	2,117	19,615	4,858	Q	2,986	3,483	883
Individual Space Heaters	12,545	12,545	1,861	4,858	12,545	543	3,830	3,900	373
District Heat	5,166	5,166	413	Q	543	5,166	Q	512	Q
Boilers	20,423	20,423	2,787	2,986	3,830	Q	20,423	3,910	Q
Packaged Heating Units	18,021	18,021	3,069	3,483	3,900	512	3,910	18,021	482
Other	3,262	3,262	358	883	373	Q	Q	482	3,262

Table B39. Heating Equipment, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)								
			Heating Equipment (more than one may apply)						
	All Buildings*	Heated Buildings	Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other
All Buildings*	64,783	60,028	8,814	19,615	12,545	5,166	20,423	18,021	3,262
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	11,035	10,617	1,356	6,251	2,933	Q	3,352	2,812	495
Heat Pumps	9,041	8,921	8,366	2,111	1,774	404	2,919	3,065	381
Packaged Heat Pumps	5,426	5,407	5,174	1,128	1,054	Q	1,694	2,147	Q
Split-System Heat Pumps	2,606	2,559	2,452	761	840	Q	650	711	Q
Individual Room Heat Pumps	2,940	2,887	2,610	596	568	Q	1,336	1,453	Q
Individual Air Conditioners	12,558	12,167	2,049	4,077	4,558	758	5,926	3,722	579
District Chilled Water	2,853	2,734	Q	Q	Q	2,231	391	370	Q
Central Chillers	11,636	11,440	1,992	1,352	2,175	1,737	7,857	2,703	979
Packaged Air Conditioning Units	29,969	29,007	3,446	9,995	6,288	1,023	9,946	14,747	1,255
Swamp Coolers	1,561	1,451	Q	718	611	Q	620	347	Q
Other	1,232	1,203	Q	Q	Q	Q	596	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	16,403	16,403	2,455	6,420	4,563	Q	5,746	5,315	730
Cooling	20,995	20,633	3,375	6,935	4,979	917	9,022	6,277	912
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	19,597	19,108	2,747	3,619	3,962	2,886	9,385	5,938	1,192
Economizer Cycle	21,108	20,828	3,558	3,846	4,517	2,873	10,246	7,804	1,274
HVAC Maintenance	51,163	49,812	7,769	15,148	9,459	4,956	18,923	15,677	2,579
Energy Management and Control System (EMCS)	15,630	15,457	2,897	2,092	2,973	2,662	7,451	5,128	1,124
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	42,722	42,722	6,388	14,172	9,211	3,047	14,636	12,799	2,411
Cooling	43,205	41,977	6,693	13,252	8,795	3,273	14,480	13,342	2,336
Lighting	46,987	44,799	6,227	15,787	8,942	3,568	13,430	12,979	2,563
Office Equipment	19,397	18,638	2,508	7,119	3,604	1,313	5,788	4,887	990

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B40. Cooling Equipment, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)									
			Cooling Equipment (more than one may apply)							
	All Build-ings*	Cooled Build-ings	Resid-ential-Type Central Air Condi-tioners	Heat Pumps	Indiv-idual Air Condi-tioners	District Chilled Water	Central Chillers	Pack-aged Air Condi-tioning Units	Swamp Coolers	Other
All Buildings*	4,645	3,625	1,006	492	742	33	111	1,613	122	40
Building Floorspace (Square Feet)										
1,001 to 5,000	2,552	1,841	581	260	383	Q	Q	678	58	Q
5,001 to 10,000	889	732	207	78	134	Q	Q	367	26	Q
10,001 to 25,000	738	629	140	87	114	Q	26	332	26	Q
25,001 to 50,000	241	216	47	33	62	6	19	119	Q	Q
50,001 to 100,000	129	118	19	20	27	5	24	67	Q	Q
100,001 to 200,000	65	60	8	8	16	6	17	32	Q	Q
200,001 to 500,000	25	23	4	4	4	2	10	13	Q	Q
Over 500,000	7	6	1	1	1	1	3	3	Q	Q
Principal Building Activity										
Education	386	352	59	63	87	14	36	139	Q	Q
Food Sales	226	210	36	Q	Q	N	N	107	Q	Q
Food Service	297	283	69	30	33	Q	Q	176	Q	Q
Health Care	129	129	47	22	8	1	8	57	Q	Q
Inpatient	8	8	1	Q	3	1	4	5	Q	Q
Outpatient	121	121	46	19	Q	Q	4	52	N	N
Lodging	142	130	23	25	71	Q	11	39	Q	Q
Retail (Other Than Mall)	443	406	95	50	82	Q	Q	200	Q	Q
Office	824	790	273	107	107	9	29	339	Q	15
Public Assembly	277	213	63	27	40	3	6	96	Q	Q
Public Order and Safety	71	61	Q	Q	20	Q	Q	27	Q	N
Religious Worship	370	308	102	57	74	Q	Q	138	Q	Q
Service	622	370	97	33	116	N	Q	136	Q	N
Warehouse and Storage	597	266	91	28	48	Q	Q	113	Q	Q
Other	79	57	Q	Q	Q	Q	4	27	Q	Q
Vacant	182	52	Q	Q	Q	Q	Q	18	Q	N
Year Constructed										
Before 1920	330	232	83	Q	82	Q	4	81	Q	Q
1920 to 1945	527	382	135	36	109	Q	8	147	Q	Q
1946 to 1959	562	430	115	48	124	4	11	180	Q	Q
1960 to 1969	579	467	112	50	130	4	22	201	Q	Q
1970 to 1979	731	609	157	77	121	5	24	294	35	Q
1980 to 1989	707	577	165	105	90	5	19	251	18	Q
1990 to 1999	876	695	184	122	72	8	16	334	19	Q
2000 to 2003	334	234	55	46	14	Q	8	125	Q	Q
Census Region										
Northeast	726	519	144	59	179	6	10	202	Q	Q
Midwest	1,266	957	363	49	209	4	29	425	Q	10
South	1,775	1,479	360	303	229	14	50	681	Q	12
West	878	671	138	81	125	9	22	304	113	Q
Climate Zone: 30-Year Average										
Under 2,000 CDD and --										
More than 7,000 HDD	855	578	192	30	139	3	16	261	30	Q
5,500-7,000 HDD	1,173	882	241	81	226	4	27	374	Q	13
4,000-5,499 HDD	673	582	191	88	142	7	21	224	Q	Q
Fewer than 4,000 HDD	1,276	1,003	225	205	156	10	22	488	40	Q
2,000 CDD or More and --										
Fewer than 4,000 HDD	669	580	158	89	79	9	25	266	Q	Q

Table B40. Cooling Equipment, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)									
			Cooling Equipment (more than one may apply)							
	All Buildings*	Cooled Buildings	Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other
All Buildings*	4,645	3,625	1,006	492	742	33	111	1,613	122	40
Number of Floors										
One	3,136	2,340	623	344	418	10	24	1,061	73	Q
Two	1,031	864	264	103	185	6	30	384	38	16
Three	339	290	96	32	88	4	24	119	Q	Q
Four to Nine	128	120	22	10	48	11	25	44	Q	Q
Ten or More	12	12	1	3	3	1	7	5	Q	Q
Number of Workers (main shift)										
Fewer than 5	2,653	1,746	508	257	428	Q	Q	619	64	Q
5 to 9	778	725	240	89	110	Q	Q	345	Q	Q
10 to 19	563	523	146	57	93	Q	10	274	Q	Q
20 to 49	398	386	81	47	68	6	29	223	21	Q
50 to 99	147	139	19	22	25	7	20	92	Q	Q
100 to 249	77	76	9	15	14	6	22	44	Q	Q
250 or More	30	30	2	5	4	4	14	16	Q	1
Weekly Operating Hours										
Fewer than 40	1,002	595	198	104	125	Q	7	206	Q	Q
40 to 48	1,117	951	283	128	209	Q	21	384	24	Q
49 to 60	1,062	883	262	107	169	6	33	395	29	Q
61 to 84	591	521	136	68	90	6	18	248	Q	Q
85 to 167	400	338	56	28	46	7	9	222	Q	Q
Open Continuously	475	338	70	58	103	4	23	158	15	Q
Multibuilding Facility										
Not Part of a Multibuilding Facility	3,169	2,595	773	299	511	Q	50	1,207	85	18
College or University	83	73	Q	11	11	15	20	12	Q	Q
Primary or Secondary School	254	218	22	46	53	Q	18	87	Q	Q
Office Complex	111	104	32	21	Q	Q	3	43	Q	Q
Retail Complex	151	92	Q	Q	Q	N	Q	42	Q	Q
Religious Campus or Complex	195	171	50	35	39	Q	Q	78	Q	Q
Health Care Complex	39	39	12	7	6	1	6	20	Q	Q
Lodging or Resort Complex	61	58	Q	9	26	Q	Q	14	Q	Q
Government Complex	87	62	Q	Q	17	Q	5	27	Q	Q
Other	496	214	58	39	45	Q	2	84	Q	Q

Table B40. Cooling Equipment, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)									
			Cooling Equipment (more than one may apply)							
	All Buildings*	Cooled Buildings	Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other
All Buildings*	4,645	3,625	1,006	492	742	33	111	1,613	122	40
Renovations in Buildings Constructed Before 1980 (more than one may apply)										
Any Type of Renovation Since 1980	1,018	872	243	107	236	7	40	399	35	8
Addition or Annex	256	242	79	34	75	2	12	117	Q	Q
Reduction In Floorspace	22	22	Q	Q	Q	Q	2	12	Q	Q
Cosmetic Improvements	741	644	172	81	170	5	29	321	22	6
Wall or Roof Replacement	370	309	84	37	84	2	14	145	Q	Q
Interior Wall Re-Configuration	411	362	96	36	97	4	20	176	Q	Q
HVAC Equipment Upgrade	442	405	116	56	98	4	28	206	16	Q
Lighting Upgrade	455	396	109	49	103	6	24	196	17	Q
Window Replacement	310	259	78	30	85	Q	11	123	Q	Q
Plumbing System Upgrade	315	271	74	31	81	2	12	124	Q	Q
Insulation Upgrade	227	187	68	19	50	Q	7	67	Q	Q
Other Renovation	19	17	Q	Q	Q	N	Q	Q	Q	N
No Renovations Since 1980	1,710	1,248	359	113	331	11	29	504	46	Q
Building Newer than 1980	1,917	1,506	404	273	175	14	42	710	41	16
Energy Sources (more than one may apply)										
Electricity	4,404	3,623	1,006	492	742	33	111	1,613	122	37
Natural Gas	2,391	2,153	652	176	392	17	78	1,116	78	16
Fuel Oil	451	298	82	21	132	3	27	116	10	6
District Heat	67	55	Q	2	13	25	15	8	Q	Q
District Chilled Water	33	33	Q	1	2	33	Q	4	Q	Q
Propane	502	399	118	39	139	Q	7	149	28	Q
Other	132	78	16	Q	24	Q	Q	32	Q	Q
Cooling Energy Sources (more than one may apply)										
Electricity	3,589	3,589	1,005	492	742	9	106	1,612	122	30
Natural Gas	17	17	Q	8	Q	Q	5	4	Q	Q
District Chilled Water	33	33	Q	1	2	33	Q	4	Q	Q
Energy End Uses (more than one may apply)										
Buildings with Space Heating	3,982	3,469	963	481	718	32	106	1,539	103	39
Buildings with Cooling	3,625	3,625	1,006	492	742	33	111	1,613	122	40
Buildings with Water Heating	3,472	3,112	868	406	631	31	109	1,430	115	33
Buildings with Cooking	801	743	172	103	166	6	41	417	41	8
Buildings with Manufacturing	119	92	26	12	19	Q	Q	45	Q	Q
Buildings with Electricity Generation	149	144	41	24	33	5	30	76	5	4
Percent of Floorspace Cooled										
Not Cooled	1,020	N	N	N	N	N	N	N	N	N
1 to 50	985	985	284	76	349	Q	9	348	36	Q
51 to 99	629	629	182	82	119	5	31	313	43	Q
100	2,011	2,011	540	335	274	27	72	952	43	22

Table B40. Cooling Equipment, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)									
			Cooling Equipment (more than one may apply)							
	All Buildings*	Cooled Buildings	Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other
All Buildings*	4,645	3,625	1,006	492	742	33	111	1,613	122	40
Heating Equipment (more than one may apply)										
Heat Pumps	476	469	36	448	41	Q	11	68	Q	Q
Packaged Heat Pumps	278	275	15	263	23	Q	6	50	Q	Q
Split-System Heat Pumps	166	163	25	154	18	Q	3	16	Q	Q
Individual Room Heat Pumps	58	58	6	57	10	Q	5	14	Q	Q
Furnaces	1,864	1,581	675	85	302	Q	9	689	65	Q
Individual Space Heaters	819	685	171	57	321	Q	12	255	36	Q
District Heat	65	53	Q	2	12	24	14	7	Q	Q
Boilers	579	485	127	39	169	5	73	207	22	9
Packaged Heating Units	953	932	184	51	102	5	20	738	16	Q
Other	205	154	29	16	47	Q	10	55	Q	Q
Cooling Equipment (more than one may apply)										
Residential-Type Central Air Conditioners	1,006	1,006	1,006	31	99	Q	9	64	12	Q
Heat Pumps	492	492	31	492	39	1	13	61	Q	Q
Packaged Heat Pumps	288	288	11	288	21	Q	7	43	Q	Q
Split-System Heat Pumps	174	174	24	174	18	Q	4	15	Q	Q
Individual Room Heat Pumps	58	58	6	58	9	Q	5	14	Q	Q
Individual Air Conditioners	742	742	99	39	742	2	16	153	21	Q
District Chilled Water	33	33	Q	1	2	33	Q	4	Q	Q
Central Chillers	111	111	9	13	16	Q	111	22	Q	Q
Packaged Air Conditioning Units	1,613	1,613	64	61	153	4	22	1,613	34	8
Swamp Coolers	122	122	12	Q	21	Q	Q	34	122	Q
Other	40	40	Q	Q	Q	Q	Q	8	Q	40
Main Equipment Replaced Since 1990 (more than one may apply)										
Heating	1,197	1,054	314	145	241	Q	28	475	25	Q
Cooling	1,356	1,356	386	158	373	Q	36	573	54	Q
Lighting Equipment Types (more than one may apply)										
Incandescent	2,184	1,875	580	239	455	17	73	827	61	20
Standard Fluorescent	3,943	3,408	942	460	694	29	107	1,540	120	37
Compact Fluorescent	941	864	227	127	188	17	66	423	29	10
High Intensity Discharge	455	400	105	68	85	10	33	202	17	5
Halogen	565	504	139	85	112	4	34	263	22	10
Other	8	8	Q	Q	Q	Q	Q	Q	N	N
HVAC Conservation Features (more than one may apply)										
Variable Air-Volume System	466	450	101	56	47	20	56	245	18	10
Economizer Cycle	508	508	82	72	50	18	62	326	33	5
HVAC Maintenance	2,581	2,328	625	338	368	32	104	1,157	91	26
Energy Management and Control System (EMCS)	252	248	31	51	29	17	51	117	Q	5

Table B40. Cooling Equipment, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)									
			Cooling Equipment (more than one may apply)							
	All Buildings*	Cooled Buildings	Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other
All Buildings*	4,645	3,625	1,006	492	742	33	111	1,613	122	40
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]										
Heating	2,878	2,512	692	346	515	18	70	1,135	79	22
Cooling	2,761	2,761	760	359	596	20	73	1,241	98	18
Lighting	3,685	3,122	891	412	606	25	81	1,390	103	27
Office Equipment	1,504	1,367	432	181	272	11	35	582	27	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B41. Cooling Equipment, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)									
			Cooling Equipment (more than one may apply)							
	All Buildings*	Cooled Buildings	Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other
All Buildings*	64,783	56,940	11,035	9,041	12,558	2,853	11,636	29,969	1,561	1,232
Building Floorspace (Square Feet)										
1,001 to 5,000	6,789	5,007	1,568	675	972	Q	Q	1,957	179	Q
5,001 to 10,000	6,585	5,408	1,523	563	1,012	Q	Q	2,741	207	Q
10,001 to 25,000	11,535	9,922	2,173	1,441	1,740	Q	456	5,260	378	Q
25,001 to 50,000	8,668	7,776	1,683	1,155	2,301	240	729	4,264	Q	Q
50,001 to 100,000	9,057	8,331	1,388	1,440	1,958	332	1,722	4,732	Q	Q
100,001 to 200,000	9,064	8,339	993	1,158	2,259	793	2,366	4,504	Q	Q
200,001 to 500,000	7,176	6,565	1,136	1,273	1,223	495	3,023	3,834	Q	Q
Over 500,000	5,908	5,591	569	1,334	1,095	822	3,278	2,678	Q	Q
Principal Building Activity										
Education	9,874	9,200	1,263	1,674	2,607	768	2,714	4,318	Q	Q
Food Sales	1,255	1,198	173	Q	Q	N	N	784	Q	Q
Food Service	1,654	1,583	468	217	234	Q	Q	988	Q	Q
Health Care	3,163	3,157	704	625	694	297	1,524	1,694	Q	Q
Inpatient	1,905	1,899	321	412	607	279	1,348	1,108	Q	Q
Outpatient	1,258	1,258	384	213	Q	Q	176	585	N	N
Lodging	5,096	4,841	1,102	1,172	2,306	Q	1,401	2,003	Q	Q
Retail (Other Than Mall)	4,317	4,079	624	471	564	Q	Q	2,723	Q	Q
Office	12,208	12,032	1,669	1,854	1,201	730	3,839	6,171	Q	439
Public Assembly	3,939	3,477	532	473	951	458	423	1,684	Q	Q
Public Order and Safety	1,090	1,043	Q	Q	372	Q	Q	438	Q	N
Religious Worship	3,754	3,301	946	612	847	Q	Q	1,849	Q	Q
Service	4,050	3,261	1,071	496	802	N	Q	1,466	Q	N
Warehouse and Storage	10,078	7,295	1,861	981	1,440	Q	Q	4,453	Q	Q
Other	1,738	1,636	Q	Q	Q	Q	505	881	Q	Q
Vacant	2,567	836	Q	Q	Q	Q	Q	517	Q	N
Year Constructed										
Before 1920	3,769	2,891	722	Q	1,278	Q	392	1,198	Q	Q
1920 to 1945	6,871	4,919	1,573	653	1,534	Q	1,063	2,847	Q	Q
1946 to 1959	7,045	6,045	1,175	888	2,594	359	891	3,023	Q	Q
1960 to 1969	8,101	7,125	1,421	794	1,888	446	1,776	3,596	Q	Q
1970 to 1979	10,772	9,973	1,961	1,392	2,065	456	2,323	5,400	483	Q
1980 to 1989	10,332	9,836	1,397	2,055	1,342	531	2,801	4,855	324	Q
1990 to 1999	12,360	11,304	2,066	2,038	1,366	804	1,426	6,264	252	Q
2000 to 2003	5,533	4,848	720	1,064	492	Q	963	2,787	Q	Q
Census Region										
Northeast	12,905	10,954	2,391	1,270	3,687	620	1,852	6,000	Q	Q
Midwest	17,080	14,484	3,609	1,063	3,488	596	2,842	8,086	Q	330
South	23,489	21,553	3,854	4,923	3,635	1,150	4,854	10,401	Q	430
West	11,310	9,950	1,181	1,785	1,749	487	2,088	5,482	1,342	Q
Climate Zone: 30-Year Average										
Under 2,000 CDD and --										
More than 7,000 HDD	10,622	8,550	1,971	739	2,321	350	1,604	4,565	515	Q
5,500-7,000 HDD	17,335	14,524	3,078	1,542	3,633	698	2,658	7,740	468	336
4,000-5,499 HDD	11,504	10,946	2,207	1,998	2,786	514	2,473	6,076	Q	Q
Fewer than 4,000 HDD	15,739	13,977	2,056	3,398	2,565	659	2,695	7,703	346	Q
2,000 CDD or More and --										
Fewer than 4,000 HDD	9,584	8,943	1,723	1,365	1,253	633	2,205	3,884	Q	Q

Table B41. Cooling Equipment, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)									
			Cooling Equipment (more than one may apply)							
	All Buildings*	Cooled Buildings	Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other
All Buildings*	64,783	56,940	11,035	9,041	12,558	2,853	11,636	29,969	1,561	1,232
Number of Floors										
One	25,981	21,419	4,674	3,598	3,899	259	864	12,208	733	Q
Two	16,270	14,544	3,178	2,160	3,035	302	2,017	8,436	474	330
Three	7,501	6,437	1,190	1,118	2,004	262	1,433	3,189	Q	Q
Four to Nine	10,085	9,673	1,656	1,122	2,735	1,458	3,874	4,208	Q	Q
Ten or More	4,947	4,867	338	1,043	885	571	3,447	1,927	Q	Q
Number of Workers (main shift)										
Fewer than 5	15,492	9,591	2,630	1,303	2,342	Q	Q	3,964	349	Q
5 to 9	6,166	5,726	1,461	696	1,144	Q	Q	3,025	Q	Q
10 to 19	7,803	7,304	2,035	862	1,608	Q	294	4,059	Q	Q
20 to 49	10,989	10,566	2,129	1,485	2,680	327	1,243	5,941	410	Q
50 to 99	7,934	7,428	1,097	1,339	1,710	505	1,736	4,517	Q	Q
100 to 249	6,871	6,806	776	1,427	1,328	583	2,436	3,939	Q	Q
250 or More	9,528	9,519	906	1,929	1,746	1,219	5,590	4,524	Q	250
Weekly Operating Hours										
Fewer than 40	6,863	3,998	1,046	639	854	Q	267	1,758	Q	Q
40 to 48	11,622	10,508	2,414	1,542	2,362	Q	1,427	5,342	219	Q
49 to 60	15,723	13,757	2,603	1,971	2,723	658	2,636	7,124	319	Q
61 to 84	10,334	9,691	1,757	1,572	1,649	347	1,800	5,226	Q	Q
85 to 167	7,092	6,708	1,104	797	1,072	604	983	4,101	Q	Q
Open Continuously	13,149	12,277	2,110	2,519	3,897	753	4,523	6,417	418	357
Multibuilding Facility										
Not Part of a Multibuilding Facility	40,048	35,976	7,374	5,294	7,718	Q	6,043	20,580	1,009	542
College or University	3,480	3,277	Q	329	492	1,221	1,310	590	Q	Q
Primary or Secondary School	3,947	3,560	402	828	887	Q	1,077	1,687	Q	Q
Office Complex	2,712	2,591	336	451	Q	Q	502	1,473	Q	Q
Retail Complex	1,238	919	Q	Q	Q	N	Q	603	Q	Q
Religious Campus or Complex	2,347	2,089	806	340	487	Q	Q	1,267	Q	Q
Health Care Complex	2,303	2,295	435	537	686	297	1,316	1,129	Q	Q
Lodging or Resort Complex	912	907	Q	251	548	Q	Q	264	Q	Q
Government Complex	2,014	1,509	Q	Q	436	Q	405	682	Q	Q
Other	5,783	3,816	953	689	895	Q	570	1,693	Q	Q

Table B41. Cooling Equipment, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)									
			Cooling Equipment (more than one may apply)							
	All Buildings*	Cooled Buildings	Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other
All Buildings*	64,783	56,940	11,035	9,041	12,558	2,853	11,636	29,969	1,561	1,232
Renovations in Buildings Constructed Before 1980 (more than one may apply)										
Any Type of Renovation Since 1980	17,844	16,221	3,225	2,431	5,220	705	4,243	9,203	555	441
Addition or Annex	6,551	6,173	1,367	1,257	2,236	339	1,696	3,971	Q	Q
Reduction In Floorspace	1,012	1,012	Q	Q	Q	Q	428	664	Q	Q
Cosmetic Improvements	13,119	12,360	2,479	1,646	4,194	476	3,474	7,255	335	252
Wall or Roof Replacement	8,070	7,607	1,257	1,160	2,540	298	2,385	4,590	Q	Q
Interior Wall Re-Configuration	8,518	8,096	1,452	1,147	2,460	445	2,607	5,263	Q	Q
HVAC Equipment Upgrade	10,768	10,341	1,968	1,815	3,196	537	3,417	6,158	393	Q
Lighting Upgrade	10,275	9,718	1,914	1,452	3,133	527	3,052	5,762	353	Q
Window Replacement	6,354	5,875	1,162	782	2,521	Q	1,541	3,678	Q	Q
Plumbing System Upgrade	7,144	6,728	1,164	1,056	2,442	299	2,165	4,170	Q	Q
Insulation Upgrade	4,015	3,801	966	547	995	Q	983	2,326	Q	Q
Other Renovation	523	444	Q	Q	Q	N	Q	Q	Q	N
No Renovations Since 1980	18,714	14,732	3,626	1,452	4,138	707	2,202	6,861	414	Q
Building Newer than 1980	28,225	25,987	4,184	5,157	3,200	1,441	5,191	13,905	592	454
Energy Sources (more than one may apply)										
Electricity	63,307	56,925	11,035	9,041	12,558	2,853	11,636	29,969	1,561	1,217
Natural Gas	43,468	41,023	7,982	5,832	9,114	1,765	9,100	23,806	1,265	808
Fuel Oil	15,157	13,890	2,323	2,520	4,220	986	6,049	6,860	354	505
District Heat	5,443	4,653	Q	404	900	2,311	1,837	1,162	Q	Q
District Chilled Water	2,853	2,853	Q	251	439	2,853	Q	511	Q	Q
Propane	7,076	5,713	1,299	1,072	2,111	Q	754	3,083	299	Q
Other	1,401	1,225	255	Q	370	Q	361	602	Q	Q
Cooling Energy Sources (more than one may apply)										
Electricity	54,321	54,321	10,946	9,030	12,558	924	11,054	29,756	1,561	1,091
Natural Gas	1,018	1,018	Q	325	Q	Q	782	554	Q	Q
District Chilled Water	2,853	2,853	Q	251	439	2,853	Q	511	Q	Q
Energy End Uses (more than one may apply)										
Buildings with Space Heating	60,028	55,188	10,617	8,921	12,167	2,734	11,440	29,007	1,451	1,203
Buildings with Cooling	56,940	56,940	11,035	9,041	12,558	2,853	11,636	29,969	1,561	1,232
Buildings with Water Heating	56,478	53,232	10,156	8,586	11,642	2,655	11,589	28,255	1,526	1,198
Buildings with Cooking	22,237	21,451	4,013	4,239	6,186	1,274	7,320	11,986	678	584
Buildings with Manufacturing	3,138	2,655	690	286	596	Q	Q	1,701	Q	Q
Buildings with Electricity Generation	12,821	12,746	1,704	2,608	2,656	1,272	6,047	6,587	304	529
Percent of Floorspace Cooled										
Not Cooled	7,843	N	N	N	N	N	N	N	N	N
1 to 50	16,598	16,598	4,453	1,573	5,424	Q	462	8,900	489	Q
51 to 99	13,211	13,211	2,332	2,334	3,170	829	4,304	7,331	522	261
100	27,132	27,132	4,250	5,134	3,964	1,985	6,870	13,738	550	766

Table B41. Cooling Equipment, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)									
			Cooling Equipment (more than one may apply)							
	All Buildings*	Cooled Buildings	Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other
All Buildings*	64,783	56,940	11,035	9,041	12,558	2,853	11,636	29,969	1,561	1,232
Heating Equipment (more than one may apply)										
Heat Pumps	8,814	8,780	1,356	8,366	2,049	Q	1,992	3,446	Q	Q
Packaged Heat Pumps	5,442	5,430	800	5,174	1,373	Q	1,310	2,526	Q	Q
Split-System Heat Pumps	2,581	2,559	901	2,452	589	Q	592	783	Q	Q
Individual Room Heat Pumps	2,691	2,691	478	2,610	963	Q	917	1,346	Q	Q
Furnaces	19,615	17,494	6,251	2,111	4,077	Q	1,352	9,995	718	Q
Individual Space Heaters	12,545	11,526	2,933	1,774	4,558	Q	2,175	6,288	611	Q
District Heat	5,166	4,376	Q	404	758	2,231	1,737	1,023	Q	Q
Boilers	20,423	19,051	3,352	2,919	5,926	391	7,857	9,946	620	596
Packaged Heating Units	18,021	17,745	2,812	3,065	3,722	370	2,703	14,747	347	Q
Other	3,262	2,961	495	381	579	Q	979	1,255	Q	Q
Cooling Equipment (more than one may apply)										
Residential-Type Central Air Conditioners	11,035	11,035	11,035	1,319	2,195	Q	1,342	3,057	211	Q
Heat Pumps	9,041	9,041	1,319	9,041	2,139	251	2,050	3,472	Q	Q
Packaged Heat Pumps	5,426	5,426	772	5,426	1,301	Q	1,258	2,442	Q	Q
Split-System Heat Pumps	2,606	2,606	914	2,606	632	Q	648	799	Q	Q
Individual Room Heat Pumps	2,940	2,940	471	2,940	1,052	Q	1,018	1,456	Q	Q
Individual Air Conditioners	12,558	12,558	2,195	2,139	12,558	439	1,896	5,678	436	Q
District Chilled Water	2,853	2,853	Q	251	439	2,853	Q	511	Q	Q
Central Chillers	11,636	11,636	1,342	2,050	1,896	Q	11,636	3,759	Q	Q
Packaged Air Conditioning Units	29,969	29,969	3,057	3,472	5,678	511	3,759	29,969	627	407
Swamp Coolers	1,561	1,561	211	Q	436	Q	Q	627	1,561	Q
Other	1,232	1,232	Q	Q	Q	Q	Q	407	Q	1,232
Main Equipment Replaced Since 1990 (more than one may apply)										
Heating	16,403	15,190	3,284	2,370	4,138	Q	2,388	8,431	488	Q
Cooling	20,995	20,995	4,305	3,352	6,419	Q	4,495	10,995	716	Q
Lighting Equipment Types (more than one may apply)										
Incandescent	38,528	36,075	7,231	6,153	9,229	1,768	9,518	18,592	1,019	798
Standard Fluorescent	59,688	55,117	10,670	8,862	12,036	2,784	11,452	29,192	1,528	1,199
Compact Fluorescent	27,571	26,790	4,684	5,151	6,158	1,909	9,374	13,867	622	781
High Intensity Discharge	20,643	19,054	3,627	4,048	4,427	1,040	6,081	10,844	583	490
Halogen	17,703	17,115	3,026	3,522	4,280	725	5,888	9,955	508	556
Other	269	269	Q	Q	Q	Q	Q	Q	N	N
HVAC Conservation Features (more than one may apply)										
Variable Air-Volume System	19,597	19,255	2,264	2,885	3,081	1,923	8,288	9,973	322	569
Economizer Cycle	21,108	21,108	2,559	3,708	3,267	1,930	8,488	12,414	528	438
HVAC Maintenance	51,163	47,935	8,670	7,946	9,884	2,795	11,430	26,294	1,323	1,167
Energy Management and Control System (EMCS)	15,630	15,358	1,632	2,852	2,191	1,771	7,114	7,308	238	418

Table B41. Cooling Equipment, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)									
			Cooling Equipment (more than one may apply)							
	All Buildings*	Cooled Buildings	Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other
All Buildings*	64,783	56,940	11,035	9,041	12,558	2,853	11,636	29,969	1,561	1,232
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]										
Heating	42,722	39,864	7,513	6,400	8,005	1,924	8,425	21,316	1,062	739
Cooling	43,205	43,205	8,376	6,789	8,952	2,264	8,619	22,962	1,148	748
Lighting	46,987	42,589	8,500	6,285	8,293	1,976	6,814	22,584	1,111	790
Office Equipment	19,397	17,749	3,912	2,441	4,170	751	2,242	9,069	289	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B42. Water Heating Equipment, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
			Type of Water Heating Equipment					Type of Water Heating Equipment		
	All Buildings*	Buildings with Water Heating	Centralized System	Distributed System	Combination Centralized and Distributed Systems	All Buildings*	Buildings with Water Heating	Centralized System	Distributed System	Combination Centralized and Distributed Systems
All Buildings*	4,645	3,472	2,513	785	175	64,783	56,478	34,671	11,540	10,267
Building Floorspace (Square Feet)										
1,001 to 5,000	2,552	1,715	1,267	418	Q	6,789	4,759	3,452	1,206	Q
5,001 to 10,000	889	725	557	150	Q	6,585	5,348	4,154	1,057	Q
10,001 to 25,000	738	607	429	133	44	11,535	9,562	6,649	2,205	708
25,001 to 50,000	241	217	144	43	31	8,668	7,734	5,130	1,524	1,081
50,001 to 100,000	129	119	70	27	22	9,057	8,412	5,020	1,853	1,538
100,001 to 200,000	65	60	31	11	18	9,064	8,300	4,214	1,702	2,384
200,001 to 500,000	25	23	13	3	7	7,176	6,680	3,584	900	2,196
Over 500,000	7	6	3	1	2	5,908	5,683	2,469	1,093	2,121
Principal Building Activity										
Education	386	298	184	81	34	9,874	9,481	5,343	1,766	2,372
Food Sales	226	186	148	Q	Q	1,255	1,130	844	Q	Q
Food Service	297	297	237	46	Q	1,654	1,654	1,291	226	Q
Health Care	129	127	103	14	9	3,163	3,160	2,001	247	912
Inpatient	8	8	4	Q	3	1,905	1,905	1,041	Q	755
Outpatient	121	119	100	Q	Q	1,258	1,255	960	Q	Q
Lodging	142	142	110	16	16	5,096	5,096	3,660	302	1,135
Retail (Other Than Mall)	443	314	227	77	Q	4,317	3,459	2,240	902	Q
Office	824	733	533	166	34	12,208	11,804	6,899	2,237	2,667
Public Assembly	277	227	165	54	7	3,939	3,632	2,380	932	320
Public Order and Safety	71	70	59	Q	Q	1,090	957	663	Q	Q
Religious Worship	370	315	221	78	16	3,754	3,512	2,352	835	325
Service	622	418	281	126	Q	4,050	3,320	1,989	1,025	Q
Warehouse and Storage	597	243	167	68	7	10,078	6,624	3,366	2,359	900
Other	79	55	36	Q	6	1,738	1,630	908	Q	494
Vacant	182	47	39	Q	Q	2,567	1,020	734	Q	Q
Year Constructed										
Before 1920	330	266	193	65	8	3,769	3,353	2,102	810	442
1920 to 1945	527	367	255	89	23	6,871	5,292	3,251	1,130	912
1946 to 1959	562	416	302	93	20	7,045	5,924	3,536	1,282	1,106
1960 to 1969	579	444	317	106	21	8,101	7,202	4,446	1,604	1,152
1970 to 1979	731	582	446	109	27	10,772	9,787	6,608	1,383	1,796
1980 to 1989	707	531	389	120	22	10,332	9,420	5,489	1,883	2,048
1990 to 1999	876	642	446	155	41	12,360	10,816	6,203	2,677	1,937
2000 to 2003	334	224	165	48	12	5,533	4,683	3,037	771	875

Table B42. Water Heating Equipment, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
			Type of Water Heating Equipment					Type of Water Heating Equipment		
	All Buildings*	Buildings with Water Heating	Centralized System	Distributed System	Combination Centralized and Distributed Systems	All Buildings*	Buildings with Water Heating	Centralized System	Distributed System	Combination Centralized and Distributed Systems
All Buildings*	4,645	3,472	2,513	785	175	64,783	56,478	34,671	11,540	10,267
Census Region and Division										
Northeast	726	600	480	97	22	12,905	11,789	7,770	2,325	1,695
New England	233	188	154	29	5	2,964	2,724	1,839	Q	375
Middle Atlantic	493	411	326	68	18	9,941	9,065	5,930	1,815	1,319
Midwest	1,266	987	698	241	48	17,080	14,928	9,724	2,670	2,534
East North Central	696	572	389	159	25	11,595	10,208	6,695	1,750	1,763
West North Central	571	415	310	82	23	5,485	4,720	3,029	920	771
South	1,775	1,217	854	304	60	23,489	19,913	11,537	4,564	3,812
South Atlantic	874	643	455	153	35	12,258	10,714	5,649	2,432	2,633
East South Central	348	227	174	38	14	3,393	2,858	1,890	469	499
West South Central	553	347	224	113	10	7,837	6,341	3,998	1,664	679
West	878	668	480	143	45	11,310	9,848	5,640	1,981	2,227
Mountain	299	256	189	46	21	3,675	3,422	1,928	566	928
Pacific	580	413	291	97	24	7,635	6,426	3,712	1,415	1,299
Climate Zone: 30-Year Average										
Under 2,000 CDD and --										
More than 7,000 HDD	855	683	543	107	34	10,622	9,474	6,315	1,468	1,691
5,500-7,000 HDD	1,173	926	647	225	54	17,335	15,160	9,553	2,954	2,654
4,000-5,499 HDD	673	554	405	121	28	11,504	10,785	6,774	2,015	1,996
Fewer than 4,000 HDD	1,276	883	635	208	40	15,739	13,192	7,444	3,009	2,739
2,000 CDD or More and --										
Fewer than 4,000 HDD	669	426	284	125	18	9,584	7,867	4,585	2,094	1,187
Number of Floors										
One	3,136	2,134	1,542	511	81	25,981	20,164	13,206	4,825	2,134
Two	1,031	899	645	210	44	16,270	14,914	8,809	3,882	2,224
Three	339	304	228	52	24	7,501	6,915	4,353	1,268	1,294
Four to Nine	128	124	92	11	21	10,085	9,688	5,826	1,111	2,751
Ten or More	12	11	6	1	4	4,947	4,796	2,477	454	1,865
Number of Workers (main shift)										
Fewer than 5	2,653	1,653	1,204	420	29	15,492	9,525	6,885	2,417	224
5 to 9	778	675	509	137	29	6,166	5,393	4,019	1,095	279
10 to 19	563	514	390	103	21	7,803	7,182	5,224	1,391	567
20 to 49	398	384	265	78	41	10,989	10,480	6,210	2,827	1,442
50 to 99	147	142	89	29	24	7,934	7,688	4,468	1,408	1,812
100 to 249	77	75	43	14	18	6,871	6,815	3,679	1,090	2,046
250 or More	30	30	13	3	13	9,528	9,395	4,186	1,312	3,897
Weekly Operating Hours										
Fewer than 40	1,002	580	421	148	11	6,863	4,305	2,952	1,144	209
40 to 48	1,117	856	583	247	26	11,622	9,989	5,995	2,945	1,050
49 to 60	1,062	845	585	200	60	15,723	13,564	7,404	3,538	2,622
61 to 84	591	506	397	80	29	10,334	9,477	6,321	1,416	1,740
85 to 167	400	330	259	52	19	7,092	6,635	4,288	1,173	1,174
Open Continuously	475	356	268	58	30	13,149	12,508	7,712	1,324	3,473

Table B42. Water Heating Equipment, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
			Type of Water Heating Equipment					Type of Water Heating Equipment		
	All Buildings*	Buildings with Water Heating	Centralized System	Distributed System	Combination Centralized and Distributed Systems	All Buildings*	Buildings with Water Heating	Centralized System	Distributed System	Combination Centralized and Distributed Systems
All Buildings*	4,645	3,472	2,513	785	175	64,783	56,478	34,671	11,540	10,267
Multibuilding Facility										
Not Part of a Multibuilding Facility	3,169	2,505	1,882	517	107	40,048	35,302	22,726	6,725	5,851
College or University	83	64	45	10	9	3,480	3,372	2,303	410	659
Primary or Secondary School	254	169	92	58	18	3,947	3,607	1,898	1,001	707
Office Complex	111	101	67	23	11	2,712	2,541	1,177	554	809
Retail Complex	151	87	64	Q	Q	1,238	855	483	Q	Q
Religious Campus or Complex	195	169	126	33	Q	2,347	2,206	1,562	406	Q
Health Care Complex	39	37	27	Q	6	2,303	2,294	1,252	Q	843
Lodging or Resort Complex	61	60	50	Q	Q	912	909	652	Q	Q
Government Complex	87	60	40	17	Q	2,014	1,348	807	408	Q
Other	496	222	119	96	6	5,783	4,044	1,810	1,526	708
Energy Sources (more than one may apply)										
Electricity	4,404	3,470	2,511	785	175	63,307	56,463	34,656	11,540	10,267
Natural Gas	2,391	2,126	1,560	438	128	43,468	41,134	25,353	7,559	8,222
Fuel Oil	451	376	290	61	26	15,157	14,560	8,411	2,183	3,965
District Heat	67	61	43	5	12	5,443	4,631	2,671	483	1,477
District Chilled Water	33	31	19	4	8	2,853	2,655	1,518	429	709
Propane	502	428	321	86	20	7,076	6,292	3,626	1,413	1,253
Other	132	95	67	25	Q	1,401	1,306	849	242	Q
Water-Heating Energy Sources (more than one may apply)										
Electricity	1,910	1,910	1,265	550	94	27,490	27,490	14,245	7,842	5,404
Natural Gas	1,445	1,445	1,103	240	102	28,820	28,820	17,917	4,435	6,468
Fuel Oil	94	94	91	Q	2	1,880	1,880	1,591	Q	248
District Heat	27	27	22	Q	3	3,088	3,088	2,073	Q	859
Propane	128	128	98	Q	Q	1,422	1,422	973	Q	Q
Energy End Uses (more than one may apply)										
Buildings with Space Heating	3,982	3,337	2,423	743	171	60,028	55,154	33,965	11,021	10,167
Buildings with Cooling	3,625	3,112	2,266	675	171	56,940	53,232	32,513	10,654	10,065
Buildings with Water Heating	3,472	3,472	2,513	785	175	56,478	56,478	34,671	11,540	10,267
Buildings with Cooking	801	787	595	122	69	22,237	21,914	12,932	3,163	5,819
Buildings with Manufacturing	119	102	63	27	12	3,138	2,987	1,053	1,065	869
Buildings with Electricity Generation	149	143	105	15	23	12,821	12,612	7,062	1,566	3,984

Table B42. Water Heating Equipment, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
			Type of Water Heating Equipment					Type of Water Heating Equipment		
	All Buildings*	Buildings with Water Heating	Centralized System	Distributed System	Combination Centralized and Distributed Systems	All Buildings*	Buildings with Water Heating	Centralized System	Distributed System	Combination Centralized and Distributed Systems
All Buildings*	4,645	3,472	2,513	785	175	64,783	56,478	34,671	11,540	10,267
Energy-Related Space Functions (more than one may apply)										
Commercial Food Preparation	799	785	593	122	69	22,223	21,901	12,919	3,163	5,819
Activities with Large Amounts of Hot Water	567	567	415	80	72	19,482	19,482	11,127	2,679	5,676
Separate Computer Area	553	516	348	105	63	26,873	26,129	14,844	4,200	7,085

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B43. Lighting Equipment, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)						
			Lighting Equipment Types (more than one may apply)				
	All Buildings*	Lit Buildings	Incand-escent	Standard Fluor-escent	Compact Fluor-escent	High-Intensity Discharge	Halogen
All Buildings*	4,645	4,248	2,184	3,943	941	455	565
Building Floorspace (Square Feet)							
1,001 to 5,000	2,552	2,261	1,070	2,068	382	101	205
5,001 to 10,000	889	821	416	772	148	88	107
10,001 to 25,000	738	716	412	665	189	105	123
25,001 to 50,000	241	231	145	223	102	60	55
50,001 to 100,000	129	126	75	123	60	51	37
100,001 to 200,000	65	63	43	62	38	32	25
200,001 to 500,000	25	24	17	24	16	13	10
Over 500,000	7	6	5	6	5	4	4
Principal Building Activity							
Education	386	384	132	368	97	59	39
Food Sales	226	221	78	217	35	Q	Q
Food Service	297	296	203	282	105	20	65
Health Care	129	129	82	129	43	10	19
Inpatient	8	8	7	8	7	4	4
Outpatient	121	121	75	121	37	6	15
Lodging	142	142	117	121	68	17	33
Retail (Other Than Mall)	443	442	191	427	67	35	60
Office	824	824	426	791	212	63	96
Public Assembly	277	264	170	243	59	39	37
Public Order and Safety	71	68	47	66	22	Q	Q
Religious Worship	370	370	289	327	87	17	58
Service	622	582	231	536	69	86	51
Warehouse and Storage	597	414	156	342	55	74	59
Other	79	73	38	65	17	10	11
Vacant	182	38	23	28	Q	Q	Q
Year Constructed							
Before 1920	330	303	229	272	75	17	55
1920 to 1945	527	476	276	447	113	34	48
1946 to 1959	562	517	294	491	110	55	62
1960 to 1969	579	553	295	517	111	45	51
1970 to 1979	731	688	362	651	151	81	83
1980 to 1989	707	652	294	598	136	65	76
1990 to 1999	876	781	327	726	177	116	128
2000 to 2003	334	278	109	242	69	42	63
Census Region and Division							
Northeast	726	690	375	646	172	70	90
New England	233	223	135	200	71	18	32
Middle Atlantic	493	467	240	446	101	52	58
Midwest	1,266	1,137	722	1,054	257	161	154
East North Central	696	641	380	603	150	103	98
West North Central	571	495	342	451	106	58	56
South	1,775	1,584	707	1,447	275	147	209
South Atlantic	874	811	330	740	136	82	119
East South Central	348	287	144	273	53	20	22
West South Central	553	485	232	435	86	44	69
West	878	838	381	796	238	77	113
Mountain	299	280	165	275	68	23	29
Pacific	580	558	216	522	170	54	83

Table B43. Lighting Equipment, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)						
			Lighting Equipment Types (more than one may apply)				
	All Buildings*	Lit Buildings	Incand-escent	Standard Fluor-escent	Compact Fluor-escent	High-Intensity Discharge	Halogen
All Buildings*	4,645	4,248	2,184	3,943	941	455	565
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	855	765	491	710	215	115	118
5,500-7,000 HDD	1,173	1,096	621	1,023	232	124	133
4,000-5,499 HDD	673	630	381	591	152	75	88
Fewer than 4,000 HDD	1,276	1,155	431	1,074	239	88	141
2,000 CDD or More and --							
Fewer than 4,000 HDD	669	601	259	546	103	53	85
Number of Floors							
One	3,136	2,793	1,191	2,583	456	260	278
Two	1,031	991	628	916	295	116	186
Three	339	326	254	310	108	41	53
Four to Nine	128	127	102	122	71	32	42
Ten or More	12	12	10	11	10	6	7
Number of Workers (main shift)							
Fewer than 5	2,653	2,261	1,114	2,028	322	140	196
5 to 9	778	774	395	734	182	77	104
10 to 19	563	562	266	546	149	63	90
20 to 49	398	397	245	387	156	90	100
50 to 99	147	147	87	144	65	41	36
100 to 249	77	77	55	75	44	28	25
250 or More	30	30	22	29	22	15	15
Weekly Operating Hours							
Fewer than 40	1,002	756	409	673	103	48	66
40 to 48	1,117	1,095	509	1,032	217	91	106
49 to 60	1,062	1,047	500	990	236	116	155
61 to 84	591	580	314	557	141	92	103
85 to 167	400	370	192	353	106	58	63
Open Continuously	475	399	261	338	137	50	73
Vacancy Status							
Completely Vacant	157	24	Q	18	Q	Q	Q
Mostly Vacant	25	Q	Q	Q	Q	Q	Q
Partially Vacant	548	479	259	431	124	54	67
Not At All Vacant	3,915	3,731	1,903	3,484	813	394	492
Multibuilding Facility							
Not Part of a Multibuilding Facility	3,169	2,963	1,566	2,805	648	297	405
College or University	83	83	40	78	45	12	10
Primary or Secondary School	254	251	64	234	47	33	14
Office Complex	111	109	66	103	27	13	14
Retail Complex	151	131	52	116	Q	16	28
Religious Campus or Complex	195	192	126	167	51	11	33
Health Care Complex	39	39	28	39	15	6	7
Lodging or Resort Complex	61	58	45	48	21	Q	7
Government Complex	87	78	42	72	24	8	Q
Other	496	346	155	282	53	57	43

Table B43. Lighting Equipment, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)						
			Lighting Equipment Types (more than one may apply)				
	All Buildings*	Lit Buildings	Incand-escent	Standard Fluor-escent	Compact Fluor-escent	High-Intensity Discharge	Halogen
All Buildings*	4,645	4,248	2,184	3,943	941	455	565
Renovations in Buildings Constructed Before 1980 (more than one may apply)							
Any Type of Renovation Since 1980	1,018	988	616	928	260	116	163
Addition or Annex	256	255	170	245	67	45	65
Reduction In Floorspace	22	22	16	22	9	9	8
Cosmetic Improvements	741	723	476	675	206	80	125
Wall or Roof Replacement	370	357	239	327	121	56	62
Interior Wall Re-Configuration	411	400	273	375	135	57	89
HVAC Equipment Upgrade	442	432	299	414	156	85	101
Lighting Upgrade	455	444	303	414	157	73	89
Window Replacement	310	297	196	282	113	55	57
Plumbing System Upgrade	315	309	200	291	113	54	62
Insulation Upgrade	227	218	143	201	74	33	33
Other Renovation	19	19	13	18	10	Q	Q
No Renovations Since 1980	1,710	1,549	839	1,449	300	117	136
Building Newer than 1980	1,917	1,711	729	1,566	381	222	267
Energy Sources (more than one may apply)							
Electricity	4,404	4,248	2,184	3,943	941	455	565
Natural Gas	2,391	2,353	1,332	2,244	640	334	369
Fuel Oil	451	442	272	422	113	66	80
District Heat	67	66	41	61	37	18	12
District Chilled Water	33	33	17	29	17	10	4
Propane	502	492	291	460	107	57	67
Other	132	120	52	118	36	19	14
Energy End Uses (more than one may apply)							
Buildings with Space Heating	3,982	3,896	2,055	3,671	900	431	525
Buildings with Cooling	3,625	3,584	1,875	3,408	864	400	504
Buildings with Water Heating	3,472	3,423	1,886	3,242	864	415	505
Buildings with Cooking	801	799	534	769	294	116	166
Buildings with Manufacturing	119	118	58	112	32	32	21
Buildings with Electricity Generation	149	149	103	147	81	46	51
Percent Lit When Open							
Zero	47	Q	Q	Q	Q	Q	Q
1 to 50	929	929	506	814	202	61	99
51 to 99	1,108	1,108	673	1,053	290	147	174
100	2,176	2,176	990	2,048	445	238	286
Building Never Open/ Electricity Not Used	386	34	Q	28	Q	Q	Q
Percent Lit When Closed							
Zero	1,964	1,831	871	1,677	294	137	209
1 to 50	1,882	1,882	1,000	1,800	474	246	259
51 to 100	136	136	53	129	36	22	25
Building Never Closed/ Electricity Not Used	664	399	261	338	137	50	73

Table B43. Lighting Equipment, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)						
			Lighting Equipment Types (more than one may apply)				
	All Buildings*	Lit Buildings	Incand-escent	Standard Fluor-escent	Compact Fluor-escent	High-Intensity Discharge	Halogen
All Buildings*	4,645	4,248	2,184	3,943	941	455	565
Lighting Equipment Types (more than one may apply)							
Incandescent	2,184	2,184	2,184	1,984	592	258	373
Standard Fluorescent	3,943	3,943	1,984	3,943	882	416	493
Compact Fluorescent	941	941	592	882	941	185	248
High Intensity Discharge	455	455	258	416	185	455	147
Halogen	565	565	373	493	248	147	565
Other	8	8	Q	Q	Q	Q	Q
Window and Interior Lighting Features (more than one may apply)							
Multipaned Windows	2,201	2,138	1,179	2,049	588	291	365
Tinted Window Glass	1,323	1,301	663	1,246	353	182	212
Reflective Window Glass	308	300	164	288	105	55	52
External Overhangs or Awnings	1,233	1,198	640	1,167	319	156	188
Skylights or Atriums	331	323	199	305	122	81	95
Daylighting Sensors	74	74	43	74	30	16	19
Specular Reflectors	928	928	526	928	306	181	173
Electronic Ballasts	2,577	2,577	1,318	2,555	685	344	376
Energy Management and Control System (EMCS) For Lighting	60	60	24	57	27	14	12
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]							
Heating	2,878	2,825	1,515	2,661	686	310	384
Cooling	2,761	2,731	1,432	2,591	668	311	393
Lighting	3,685	3,685	1,858	3,459	769	380	470
Office Equipment	1,504	1,500	709	1,443	346	154	194

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B44. Lighting Equipment, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
			Lighting Equipment Types (more than one may apply)				
	All Buildings*	Lit Buildings	Incand-escent	Standard Fluor-escent	Compact Fluor-escent	High-Intensity Discharge	Halogen
All Buildings*	64,783	62,060	38,528	59,688	27,571	20,643	17,703
Building Floorspace (Square Feet)							
1,001 to 5,000	6,789	6,038	2,918	5,579	1,123	312	604
5,001 to 10,000	6,585	6,090	3,061	5,726	1,109	686	781
10,001 to 25,000	11,535	11,229	6,424	10,458	2,944	1,721	1,973
25,001 to 50,000	8,668	8,297	5,176	8,001	3,662	2,191	2,013
50,001 to 100,000	9,057	8,912	5,296	8,667	4,330	3,646	2,599
100,001 to 200,000	9,064	8,732	6,042	8,612	5,268	4,349	3,473
200,001 to 500,000	7,176	6,946	4,913	6,839	4,610	3,918	2,775
Over 500,000	5,908	5,816	4,698	5,806	4,526	3,819	3,485
Principal Building Activity							
Education	9,874	9,870	6,095	9,633	4,727	4,178	2,231
Food Sales	1,255	1,237	550	1,192	304	Q	Q
Food Service	1,654	1,650	1,296	1,602	717	246	510
Health Care	3,163	3,163	2,555	3,142	2,305	1,324	1,433
Inpatient	1,905	1,905	1,715	1,886	1,689	1,115	1,166
Outpatient	1,258	1,258	840	1,255	616	209	267
Lodging	5,096	5,096	4,581	4,842	3,674	1,498	2,266
Retail (Other Than Mall)	4,317	4,315	1,991	4,041	1,173	943	828
Office	12,208	12,208	8,480	12,004	7,357	4,054	4,201
Public Assembly	3,939	3,917	2,621	3,748	1,726	1,293	1,393
Public Order and Safety	1,090	1,074	684	1,048	495	Q	Q
Religious Worship	3,754	3,754	3,060	3,567	1,284	421	959
Service	4,050	3,911	1,654	3,793	720	1,312	758
Warehouse and Storage	10,078	9,125	3,362	8,489	1,853	3,939	2,186
Other	1,738	1,721	1,066	1,677	972	713	425
Vacant	2,567	1,020	533	909	Q	Q	Q
Year Constructed							
Before 1920	3,769	3,554	2,663	3,430	1,300	536	881
1920 to 1945	6,871	6,367	4,107	6,078	2,827	2,351	1,225
1946 to 1959	7,045	6,727	4,324	6,488	2,461	2,105	1,973
1960 to 1969	8,101	7,972	4,866	7,739	3,605	2,284	1,798
1970 to 1979	10,772	10,381	7,003	10,048	4,613	3,530	2,921
1980 to 1989	10,332	10,087	6,213	9,743	5,286	3,417	3,384
1990 to 1999	12,360	11,828	6,466	11,358	4,899	4,419	3,352
2000 to 2003	5,533	5,144	2,885	4,803	2,581	2,002	2,169
Census Region and Division							
Northeast	12,905	12,559	8,102	12,159	6,091	4,379	3,581
New England	2,964	2,873	1,996	2,724	1,474	1,021	769
Middle Atlantic	9,941	9,687	6,105	9,435	4,616	3,358	2,812
Midwest	17,080	16,246	10,973	15,708	6,828	6,620	4,661
East North Central	11,595	11,046	7,211	10,701	4,845	5,104	3,259
West North Central	5,485	5,200	3,762	5,006	1,983	1,515	1,402
South	23,489	22,325	13,045	21,222	8,881	6,229	6,193
South Atlantic	12,258	11,856	7,028	11,245	4,856	4,053	3,474
East South Central	3,393	3,148	1,984	3,022	1,262	706	620
West South Central	7,837	7,322	4,033	6,955	2,764	1,470	2,099
West	11,310	10,930	6,408	10,599	5,772	3,416	3,268
Mountain	3,675	3,618	2,443	3,534	1,748	977	993
Pacific	7,635	7,312	3,965	7,066	4,024	2,438	2,275

Table B44. Lighting Equipment, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
			Lighting Equipment Types (more than one may apply)				
	All Buildings*	Lit Buildings	Incand-escent	Standard Fluor-escent	Compact Fluor-escent	High-Intensity Discharge	Halogen
All Buildings*	64,783	62,060	38,528	59,688	27,571	20,643	17,703
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	10,622	10,108	7,016	9,783	4,667	3,955	2,762
5,500-7,000 HDD	17,335	16,676	10,308	16,090	6,835	6,149	4,485
4,000-5,499 HDD	11,504	11,228	8,192	10,871	6,292	4,385	3,903
Fewer than 4,000 HDD	15,739	14,947	7,939	14,316	6,439	3,863	4,117
2,000 CDD or More and --							
Fewer than 4,000 HDD	9,584	9,102	5,073	8,627	3,339	2,292	2,435
Number of Floors							
One	25,981	24,288	10,640	22,875	5,431	6,176	3,811
Two	16,270	15,752	9,812	15,172	6,571	4,893	4,590
Three	7,501	7,242	5,620	7,057	3,914	2,582	2,026
Four to Nine	10,085	9,831	8,192	9,691	7,324	4,088	4,145
Ten or More	4,947	4,947	4,264	4,893	4,332	2,904	3,131
Number of Workers (main shift)							
Fewer than 5	15,492	12,835	6,370	11,501	2,142	1,930	1,270
5 to 9	6,166	6,143	3,436	5,943	1,516	977	1,141
10 to 19	7,803	7,791	4,363	7,615	2,744	1,651	1,473
20 to 49	10,989	10,959	6,456	10,688	4,604	3,505	3,303
50 to 99	7,934	7,934	5,336	7,790	4,337	3,364	2,439
100 to 249	6,871	6,871	4,776	6,693	4,304	3,508	2,720
250 or More	9,528	9,528	7,791	9,457	7,923	5,708	5,358
Weekly Operating Hours							
Fewer than 40	6,863	4,922	2,708	4,588	857	852	581
40 to 48	11,622	11,515	6,162	11,067	3,496	2,644	2,181
49 to 60	15,723	15,625	9,130	15,123	6,391	4,770	3,930
61 to 84	10,334	10,312	6,234	10,063	4,567	4,015	3,155
85 to 167	7,092	6,906	4,153	6,654	3,304	3,256	2,122
Open Continuously	13,149	12,781	10,142	12,192	8,957	5,105	5,733
Vacancy Status							
Completely Vacant	2,161	676	Q	610	Q	Q	Q
Mostly Vacant	406	Q	Q	Q	Q	Q	Q
Partially Vacant	12,382	12,062	8,638	11,663	7,412	4,627	4,621
Not At All Vacant	49,834	48,978	29,357	47,116	19,896	15,695	13,028
Multibuilding Facility							
Not Part of a Multibuilding Facility	40,048	38,514	23,775	37,281	15,624	12,243	11,311
College or University	3,480	3,478	2,354	3,437	2,494	1,100	804
Primary or Secondary School	3,947	3,938	1,938	3,714	1,516	1,380	708
Office Complex	2,712	2,548	1,749	2,540	1,638	1,019	1,073
Retail Complex	1,238	1,166	491	1,043	Q	249	259
Religious Campus or Complex	2,347	2,314	1,769	2,150	1,132	247	506
Health Care Complex	2,303	2,301	2,047	2,283	1,777	1,073	1,195
Lodging or Resort Complex	912	904	838	809	620	Q	463
Government Complex	2,014	1,995	882	1,976	921	949	Q
Other	5,783	4,903	2,685	4,456	1,588	2,099	1,129

Table B44. Lighting Equipment, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
			Lighting Equipment Types (more than one may apply)				
	All Buildings*	Lit Buildings	Incand-escent	Standard Fluor-escent	Compact Fluor-escent	High-Intensity Discharge	Halogen
All Buildings*	64,783	62,060	38,528	59,688	27,571	20,643	17,703
Renovations in Buildings Constructed Before 1980 (more than one may apply)							
Any Type of Renovation Since 1980	17,844	17,473	12,502	17,033	8,464	6,882	6,132
Addition or Annex	6,551	6,543	5,029	6,412	3,236	2,993	3,019
Reduction In Floorspace	1,012	1,012	769	1,012	683	509	513
Cosmetic Improvements	13,119	12,905	9,432	12,555	6,652	4,770	4,869
Wall or Roof Replacement	8,070	7,978	5,927	7,799	4,505	3,522	3,286
Interior Wall Re-Configuration	8,518	8,434	6,452	8,246	4,937	3,776	3,891
HVAC Equipment Upgrade	10,768	10,742	7,951	10,606	6,330	4,967	4,357
Lighting Upgrade	10,275	10,232	7,312	9,999	5,858	4,481	4,096
Window Replacement	6,354	6,207	4,575	6,124	3,462	2,758	2,719
Plumbing System Upgrade	7,144	7,118	5,225	6,996	4,311	3,149	3,097
Insulation Upgrade	4,015	3,988	2,626	3,916	2,229	1,799	1,240
Other Renovation	523	523	427	500	321	Q	Q
No Renovations Since 1980	18,714	17,529	10,462	16,750	6,341	3,923	2,665
Building Newer than 1980	28,225	27,058	15,564	25,904	12,766	9,837	8,906
Energy Sources (more than one may apply)							
Electricity	63,307	62,060	38,528	59,688	27,571	20,643	17,703
Natural Gas	43,468	42,950	28,624	41,843	21,209	15,922	13,645
Fuel Oil	15,157	15,037	11,635	14,904	10,201	7,314	6,893
District Heat	5,443	5,319	3,617	5,239	3,663	2,665	1,857
District Chilled Water	2,853	2,819	1,768	2,784	1,909	1,040	725
Propane	7,076	6,990	4,170	6,821	2,999	3,170	2,015
Other	1,401	1,370	902	1,365	672	525	480
Energy End Uses (more than one may apply)							
Buildings with Space Heating	60,028	59,215	37,220	57,351	26,835	20,093	17,042
Buildings with Cooling	56,940	56,661	36,075	55,117	26,790	19,054	17,115
Buildings with Water Heating	56,478	56,011	36,622	54,438	26,878	19,191	16,887
Buildings with Cooking	22,237	22,166	17,258	21,686	14,174	9,621	9,083
Buildings with Manufacturing	3,138	3,097	1,877	3,028	1,297	1,682	925
Buildings with Electricity Generation	12,821	12,745	9,976	12,665	10,041	6,861	6,448
Percent Lit When Open							
Zero	293	Q	Q	Q	Q	Q	Q
1 to 50	10,203	10,203	6,483	9,412	3,456	1,947	2,425
51 to 99	18,288	18,288	12,947	17,816	9,855	7,153	6,112
100	32,789	32,789	18,667	31,745	14,115	11,234	9,110
Building Never Open/ Electricity Not Used	3,210	754	Q	688	Q	Q	Q
Percent Lit When Closed							
Zero	17,385	16,238	7,932	15,284	3,944	3,946	3,202
1 to 50	30,948	30,948	19,169	30,185	13,696	10,741	8,126
51 to 100	2,093	2,093	1,285	2,027	975	850	642
Building Never Closed/ Electricity Not Used	14,357	12,781	10,142	12,192	8,957	5,105	5,733

Table B44. Lighting Equipment, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
			Lighting Equipment Types (more than one may apply)				
	All Buildings*	Lit Buildings	Incand-escent	Standard Fluor-escent	Compact Fluor-escent	High-Intensity Discharge	Halogen
All Buildings*	64,783	62,060	38,528	59,688	27,571	20,643	17,703
Lighting Equipment Types (more than one may apply)							
Incandescent	38,528	38,528	38,528	37,239	21,329	14,648	14,163
Standard Fluorescent	59,688	59,688	37,239	59,688	26,861	20,142	17,120
Compact Fluorescent	27,571	27,571	21,329	26,861	27,571	12,576	11,937
High Intensity Discharge	20,643	20,643	14,648	20,142	12,576	20,643	9,747
Halogen	17,703	17,703	14,163	17,120	11,937	9,747	17,703
Other	269	269	Q	Q	Q	Q	Q
Window and Interior Lighting Features (more than one may apply)							
Multipaned Windows	38,910	38,424	25,727	37,660	20,119	14,503	13,124
Tinted Window Glass	29,887	29,365	18,489	28,746	15,891	11,918	10,155
Reflective Window Glass	8,544	8,425	6,287	8,268	5,773	4,227	3,826
External Overhangs or Awnings	17,242	17,087	11,255	16,708	8,357	6,023	5,334
Skylights or Atriums	12,546	12,486	9,279	12,237	8,220	6,289	5,355
Daylighting Sensors	2,868	2,868	2,294	2,866	2,241	1,703	1,496
Specular Reflectors	26,118	26,118	18,183	26,118	15,591	12,104	9,930
Electronic Ballasts	46,882	46,882	30,132	46,583	24,070	17,727	14,691
Energy Management and Control System (EMCS) For Lighting	4,781	4,781	3,410	4,660	3,520	2,482	2,107
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]							
Heating	42,722	42,305	26,468	41,078	19,895	14,125	12,169
Cooling	43,205	42,977	27,055	41,816	20,272	14,612	12,630
Lighting	46,987	46,987	27,178	45,368	17,968	14,743	11,455
Office Equipment	19,397	19,349	10,095	18,742	6,533	5,154	4,089

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B45. Refrigeration Equipment, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)							
			Type of Equipment (more than one may apply)					
			Commercial Refrigeration				Other Refrigeration	
	All Buildings*	Buildings with Any Refrig-eration Equipment	Any	Walk-In Units	Open Cases or Cabinets	Closed Cases or Cabinets	Resid-ential-Type Units	Vending Machines
All Buildings*	4,645	3,176	1,007	666	308	696	2,370	996
Building Floorspace (Square Feet)								
1,001 to 5,000	2,552	1,591	486	332	142	353	1,159	268
5,001 to 10,000	889	642	188	124	65	117	494	181
10,001 to 25,000	738	548	138	75	40	103	427	250
25,001 to 50,000	241	196	78	44	19	53	148	134
50,001 to 100,000	129	114	60	44	19	34	81	89
100,001 to 200,000	65	58	36	29	13	23	41	48
200,001 to 500,000	25	21	16	14	7	9	16	19
Over 500,000	7	6	5	5	3	3	4	6
Principal Building Activity								
Education	386	254	93	59	31	54	203	113
Food Sales	226	212	205	167	93	159	48	56
Food Service	297	296	283	239	90	219	118	53
Health Care	129	116	23	14	7	11	110	25
Inpatient	8	8	8	7	4	5	7	7
Outpatient	121	108	15	Q	Q	6	103	18
Lodging	142	126	42	26	6	29	107	75
Retail (Other Than Mall)	443	319	98	47	25	65	215	95
Office	824	643	53	17	22	25	577	194
Public Assembly	277	210	74	40	9	51	152	55
Public Order and Safety	71	67	13	Q	Q	Q	56	38
Religious Worship	370	271	41	Q	Q	31	255	31
Service	622	362	Q	Q	Q	Q	298	145
Warehouse and Storage	597	225	47	34	Q	15	173	93
Other	79	51	14	10	Q	12	41	19
Vacant	182	24	Q	Q	Q	Q	Q	Q
Year Constructed								
Before 1920	330	243	77	52	23	61	201	40
1920 to 1945	527	342	111	61	33	81	256	93
1946 to 1959	562	401	140	71	35	97	308	114
1960 to 1969	579	396	112	78	37	81	300	156
1970 to 1979	731	511	155	109	39	101	379	175
1980 to 1989	707	487	145	109	46	97	365	148
1990 to 1999	876	598	189	129	64	129	428	205
2000 to 2003	334	199	78	58	30	49	134	65
Census Region and Division								
Northeast	726	518	177	119	48	127	398	156
New England	233	164	58	44	19	42	136	51
Middle Atlantic	493	355	119	75	29	85	262	104
Midwest	1,266	872	287	182	75	210	660	267
East North Central	696	496	189	121	48	135	353	155
West North Central	571	377	98	62	27	75	307	112
South	1,775	1,203	367	244	132	252	860	397
South Atlantic	874	607	191	127	75	130	419	194
East South Central	348	238	63	40	18	43	175	90
West South Central	553	358	113	76	39	78	266	113
West	878	583	176	122	53	107	452	176
Mountain	299	202	54	39	14	30	166	75
Pacific	580	381	122	83	39	76	287	101

Table B45. Refrigeration Equipment, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)							
			Type of Equipment (more than one may apply)					
			Commercial Refrigeration				Other Refrigeration	
	All Buildings*	Buildings with Any Refrig-eration Equipment	Any	Walk-In Units	Open Cases or Cabinets	Closed Cases or Cabinets	Resid-ential-Type Units	Vending Machines
All Buildings*	4,645	3,176	1,007	666	308	696	2,370	996
Climate Zone: 30-Year Average								
Under 2,000 CDD and --								
More than 7,000 HDD	855	591	184	130	50	137	470	184
5,500-7,000 HDD	1,173	801	278	189	78	185	597	252
4,000-5,499 HDD	673	502	151	92	43	105	374	167
Fewer than 4,000 HDD	1,276	832	254	157	84	170	593	245
2,000 CDD or More and --								
Fewer than 4,000 HDD	669	451	141	98	53	98	336	148
Number of Floors								
One	3,136	1,992	626	440	201	426	1,446	553
Two	1,031	787	232	140	66	158	612	276
Three	339	276	92	49	26	72	220	97
Four to Nine	128	110	50	33	12	34	85	61
Ten or More	12	11	7	5	4	5	7	9
Number of Workers (main shift)								
Fewer than 5	2,653	1,494	438	248	111	313	1,123	272
5 to 9	778	629	179	126	52	134	471	176
10 to 19	563	474	146	108	51	93	357	165
20 to 49	398	346	126	90	41	86	255	194
50 to 99	147	132	62	49	25	36	93	103
100 to 249	77	73	39	32	21	23	50	61
250 or More	30	28	17	13	8	11	20	25
Weekly Operating Hours								
Fewer than 40	1,002	483	88	40	20	54	421	54
40 to 48	1,117	771	105	53	31	66	663	211
49 to 60	1,062	782	168	100	40	105	626	259
61 to 84	591	490	235	142	72	174	316	198
85 to 167	400	336	263	229	95	190	127	117
Open Continuously	475	314	146	104	50	107	216	157
Multibuilding Facility								
Not Part of a Multibuilding Facility	3,169	2,372	819	553	256	576	1,702	675
College or University	83	59	15	11	3	10	40	42
Primary or Secondary School	254	119	46	37	11	27	88	54
Office Complex	111	77	15	6	10	5	61	28
Retail Complex	151	83	25	Q	Q	18	66	45
Religious Campus or Complex	195	131	25	Q	Q	18	124	19
Health Care Complex	39	32	11	8	3	8	31	18
Lodging or Resort Complex	61	52	14	Q	Q	13	37	21
Government Complex	87	53	8	Q	Q	Q	44	27
Other	496	200	30	17	Q	15	177	68

Table B45. Refrigeration Equipment, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)							
			Type of Equipment (more than one may apply)					
			Commercial Refrigeration				Other Refrigeration	
	All Buildings*	Buildings with Any Refrig-eration Equipment	Any	Walk-In Units	Open Cases or Cabinets	Closed Cases or Cabinets	Resid-ential-Type Units	Vending Machines
All Buildings*	4,645	3,176	1,007	666	308	696	2,370	996
Energy Sources (more than one may apply)								
Electricity	4,404	3,176	1,007	666	308	696	2,370	996
Natural Gas	2,391	1,892	666	450	190	473	1,375	656
Fuel Oil	451	361	121	80	35	83	294	134
District Heat	67	51	13	9	5	10	36	36
District Chilled Water	33	25	8	6	3	6	17	19
Propane	502	396	149	97	44	104	307	135
Other	132	93	16	10	5	12	82	34
Energy End Uses (more than one may apply)								
Buildings with Space Heating	3,982	3,014	934	619	287	645	2,278	953
Buildings with Cooling	3,625	2,848	943	631	286	655	2,106	915
Buildings with Water Heating	3,472	2,828	947	632	285	653	2,113	895
Buildings with Cooking	801	797	590	454	181	431	479	256
Buildings with Manufacturing	119	96	20	17	Q	11	82	42
Buildings with Electricity Generation	149	136	67	51	27	41	109	100
Energy-Related Space Functions (more than one may apply)								
Commercial Food Preparation	799	797	590	454	181	431	479	256
Activities with Large Amounts of Hot Water	567	527	330	249	107	231	329	237
Separate Computer Area	553	470	165	115	58	102	372	283

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

Table B46. Refrigeration Equipment, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)							
			Type of Equipment (more than one may apply)					
			Commercial Refrigeration				Other Refrigeration	
	All Buildings*	Buildings with Any Refrig-eration Equipment	Any	Walk-In Units	Open Cases or Cabinets	Closed Cases or Cabinets	Resid-ential-Type Units	Vending Machines
All Buildings*	64,783	52,974	26,768	20,254	10,425	17,218	38,884	35,335
Building Floorspace (Square Feet)								
1,001 to 5,000	6,789	4,333	1,310	916	366	935	3,174	830
5,001 to 10,000	6,585	4,738	1,406	909	497	894	3,609	1,407
10,001 to 25,000	11,535	8,646	2,230	1,188	614	1,665	6,725	4,072
25,001 to 50,000	8,668	7,068	2,829	1,626	676	1,933	5,289	4,910
50,001 to 100,000	9,057	8,038	4,291	3,124	1,354	2,438	5,760	6,342
100,001 to 200,000	9,064	8,096	5,116	4,148	1,926	3,302	5,667	6,578
200,001 to 500,000	7,176	6,238	4,606	4,199	2,034	2,685	4,524	5,691
Over 500,000	5,908	5,816	4,979	4,146	2,958	3,366	4,136	5,506
Principal Building Activity								
Education	9,874	9,066	6,485	5,157	2,634	3,470	6,460	7,127
Food Sales	1,255	1,210	1,177	1,069	804	902	306	551
Food Service	1,654	1,651	1,616	1,495	491	1,234	605	426
Health Care	3,163	3,013	2,131	1,942	1,244	1,671	2,656	2,262
Inpatient	1,905	1,905	1,869	1,828	1,178	1,508	1,667	1,776
Outpatient	1,258	1,108	262	Q	Q	163	989	485
Lodging	5,096	4,780	3,333	2,844	985	2,035	3,696	4,199
Retail (Other Than Mall)	4,317	3,447	1,336	670	651	1,152	2,276	1,952
Office	12,208	10,642	4,045	2,757	1,972	2,530	8,335	7,661
Public Assembly	3,939	3,302	1,805	1,235	308	1,494	2,258	1,607
Public Order and Safety	1,090	1,031	565	Q	Q	Q	883	868
Religious Worship	3,754	3,163	821	Q	Q	635	2,881	731
Service	4,050	2,992	Q	Q	Q	Q	2,464	1,902
Warehouse and Storage	10,078	6,499	2,032	1,517	Q	775	4,667	4,719
Other	1,738	1,570	841	780	Q	682	986	1,189
Vacant	2,567	608	Q	Q	Q	Q	Q	Q
Year Constructed								
Before 1920	3,769	2,939	1,297	990	396	807	2,323	1,074
1920 to 1945	6,871	5,006	2,580	1,853	1,079	1,566	4,088	3,426
1946 to 1959	7,045	6,028	3,544	2,399	1,242	2,114	4,700	3,332
1960 to 1969	8,101	6,610	3,090	2,324	1,226	2,117	4,898	4,699
1970 to 1979	10,772	8,830	4,422	3,461	1,818	2,889	6,412	6,208
1980 to 1989	10,332	8,725	4,728	3,840	1,866	3,247	6,253	6,219
1990 to 1999	12,360	10,347	4,568	3,341	1,627	2,880	7,130	7,248
2000 to 2003	5,533	4,488	2,539	2,046	1,172	1,597	3,081	3,127
Census Region and Division								
Northeast	12,905	10,842	5,936	4,452	2,361	3,652	8,288	6,559
New England	2,964	2,474	1,107	889	389	790	2,037	1,569
Middle Atlantic	9,941	8,367	4,830	3,563	1,972	2,861	6,251	4,990
Midwest	17,080	14,082	7,122	5,201	2,120	4,400	10,792	9,400
East North Central	11,595	9,538	5,286	3,860	1,679	3,228	7,247	6,583
West North Central	5,485	4,544	1,835	1,341	441	1,172	3,545	2,817
South	23,489	19,103	9,638	7,469	4,298	6,514	13,162	13,534
South Atlantic	12,258	10,256	5,426	4,324	2,581	3,568	7,043	7,066
East South Central	3,393	2,829	1,145	862	420	941	1,834	2,056
West South Central	7,837	6,018	3,067	2,284	1,297	2,004	4,285	4,412
West	11,310	8,947	4,072	3,132	1,646	2,652	6,642	5,841
Mountain	3,675	3,028	1,398	1,073	672	781	2,232	2,058
Pacific	7,635	5,919	2,674	2,059	974	1,871	4,410	3,783

Table B46. Refrigeration Equipment, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)							
			Type of Equipment (more than one may apply)					
			Commercial Refrigeration				Other Refrigeration	
	All Buildings*	Buildings with Any Refrig-eration Equipment	Any	Walk-In Units	Open Cases or Cabinets	Closed Cases or Cabinets	Resid-ential-Type Units	Vending Machines
All Buildings*	64,783	52,974	26,768	20,254	10,425	17,218	38,884	35,335
Climate Zone: 30-Year Average								
Under 2,000 CDD and --								
More than 7,000 HDD	10,622	8,673	4,106	3,188	1,296	2,495	6,713	5,824
5,500-7,000 HDD	17,335	14,438	7,355	5,353	2,808	4,601	10,957	9,186
4,000-5,499 HDD	11,504	9,893	5,702	4,341	2,220	3,654	7,367	6,729
Fewer than 4,000 HDD	15,739	12,329	5,784	4,490	2,408	3,793	8,479	8,220
2,000 CDD or More and --								
Fewer than 4,000 HDD	9,584	7,640	3,821	2,882	1,694	2,675	5,369	5,375
Number of Floors								
One	25,981	18,869	7,620	5,257	2,649	4,813	13,230	10,272
Two	16,270	13,758	6,309	4,898	2,010	3,937	10,456	8,818
Three	7,501	6,550	3,065	2,044	990	2,174	5,021	4,575
Four to Nine	10,085	9,083	6,002	5,185	2,447	3,566	6,744	7,521
Ten or More	4,947	4,715	3,773	2,871	2,328	2,727	3,433	4,150
Number of Workers (main shift)								
Fewer than 5	15,492	8,221	2,390	1,159	449	1,717	6,271	2,239
5 to 9	6,166	5,109	1,592	867	378	1,182	3,862	1,938
10 to 19	7,803	6,608	2,182	1,538	491	1,136	5,242	3,516
20 to 49	10,989	9,759	4,415	3,262	1,262	2,873	7,011	6,949
50 to 99	7,934	7,346	4,475	3,693	1,447	2,363	5,084	6,197
100 to 249	6,871	6,619	4,399	3,776	2,193	2,877	4,726	5,960
250 or More	9,528	9,313	7,314	5,960	4,204	5,068	6,687	8,536
Weekly Operating Hours								
Fewer than 40	6,863	3,376	933	557	242	561	2,808	763
40 to 48	11,622	9,130	3,156	2,190	1,109	1,968	7,358	5,286
49 to 60	15,723	12,833	5,218	3,745	1,815	2,973	9,804	8,207
61 to 84	10,334	9,304	4,350	2,996	1,625	2,844	6,490	6,234
85 to 167	7,092	6,384	4,314	3,184	1,554	2,987	3,941	4,639
Open Continuously	13,149	11,947	8,797	7,582	4,081	5,885	8,484	10,205
Multibuilding Facility								
Not Part of a Multibuilding Facility	40,048	33,711	16,426	11,954	6,307	10,842	24,007	20,526
College or University	3,480	3,041	1,295	1,009	Q	902	1,780	2,805
Primary or Secondary School	3,947	3,195	2,352	2,092	901	1,171	2,287	2,384
Office Complex	2,712	2,059	857	604	484	575	1,658	1,650
Retail Complex	1,238	833	265	Q	Q	219	651	623
Religious Campus or Complex	2,347	1,940	870	Q	Q	320	1,743	763
Health Care Complex	2,303	2,233	1,858	1,754	959	1,421	2,032	1,975
Lodging or Resort Complex	912	850	492	Q	Q	427	584	682
Government Complex	2,014	1,441	799	Q	Q	Q	1,177	1,305
Other	5,783	3,671	1,554	1,306	Q	1,021	2,965	2,622

Table B46. Refrigeration Equipment, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)							
			Type of Equipment (more than one may apply)					
			Commercial Refrigeration				Other Refrigeration	
	All Buildings*	Buildings with Any Refrig-eration Equipment	Any	Walk-In Units	Open Cases or Cabinets	Closed Cases or Cabinets	Resid-ential-Type Units	Vending Machines
All Buildings*	64,783	52,974	26,768	20,254	10,425	17,218	38,884	35,335
Energy Sources (more than one may apply)								
Electricity	63,307	52,974	26,768	20,254	10,425	17,218	38,884	35,335
Natural Gas	43,468	38,436	21,376	16,719	8,485	14,146	28,365	26,647
Fuel Oil	15,157	14,221	9,936	8,267	4,557	6,636	11,118	11,387
District Heat	5,443	4,568	2,716	2,131	1,395	2,005	3,163	4,108
District Chilled Water	2,853	2,594	1,490	1,091	593	1,056	1,899	2,376
Propane	7,076	6,065	3,237	2,495	1,268	2,012	4,473	4,132
Other	1,401	1,231	616	466	200	417	957	850
Energy End Uses (more than one may apply)								
Buildings with Space Heating	60,028	51,451	26,088	19,764	10,165	16,707	37,825	34,470
Buildings with Cooling	56,940	50,080	25,872	19,803	10,202	16,729	36,662	34,063
Buildings with Water Heating	56,478	50,212	26,153	19,986	10,145	16,882	36,777	33,964
Buildings with Cooking	22,237	22,193	19,665	16,422	8,532	13,219	15,911	16,471
Buildings with Manufacturing	3,138	2,771	973	756	Q	530	2,170	2,338
Buildings with Electricity Generation	12,821	12,351	9,247	7,765	4,617	6,272	9,564	11,183
Energy-Related Space Functions (more than one may apply)								
Commercial Food Preparation	22,223	22,193	19,665	16,422	8,532	13,219	15,911	16,471
Activities with Large Amounts of Hot Water	19,482	19,029	15,765	13,809	6,973	10,493	13,751	15,022
Separate Computer Area	26,873	25,237	16,650	13,420	7,695	10,097	18,674	21,343

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.

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

	All Buildings*		Total Energy Consumption (trillion Btu)					
				Electricity				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Primary	Site	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634
Building Floorspace (Square Feet)								
1,001 to 5,000	2,552	6,789	672	1,164	386	250	34	Q
5,001 to 10,000	889	6,585	516	790	262	209	36	Q
10,001 to 25,000	738	11,535	776	1,229	407	309	27	Q
25,001 to 50,000	241	8,668	673	1,058	350	258	16	Q
50,001 to 100,000	129	9,057	759	1,223	405	244	26	Q
100,001 to 200,000	65	9,064	934	1,458	483	249	37	165
200,001 to 500,000	25	7,176	725	1,090	361	205	36	123
Over 500,000	7	5,908	766	1,157	383	204	10	169
Principal Building Activity								
Education	386	9,874	820	1,121	371	268	47	134
Food Sales	226	1,255	251	629	208	39	Q	N
Food Service	297	1,654	427	654	217	203	Q	Q
Health Care	129	3,163	594	748	248	243	11	Q
Inpatient	8	1,905	475	539	178	204	9	Q
Outpatient	121	1,258	119	209	69	38	Q	Q
Lodging	142	5,096	510	709	235	215	35	Q
Retail (Other Than Mall)	443	4,317	319	637	211	91	Q	Q
Office	824	12,208	1,134	2,170	719	269	18	128
Public Assembly	277	3,939	370	506	167	102	29	Q
Public Order and Safety	71	1,090	126	172	57	29	8	Q
Religious Worship	370	3,754	163	188	62	82	18	Q
Service	622	4,050	312	451	149	139	Q	Q
Warehouse and Storage	597	10,078	456	738	244	132	9	Q
Other	79	1,738	286	401	133	87	Q	Q
Vacant	182	2,567	54	46	15	28	Q	Q
Year Constructed								
Before 1920	330	3,769	302	271	90	143	38	Q
1920 to 1945	527	6,871	620	626	208	229	54	129
1946 to 1959	562	7,045	565	696	231	216	48	Q
1960 to 1969	579	8,101	737	989	327	255	Q	117
1970 to 1979	731	10,772	1,023	1,726	572	351	22	77
1980 to 1989	707	10,332	1,034	1,892	627	291	9	Q
1990 to 1999	876	12,360	1,098	2,082	690	314	9	Q
2000 to 2003	334	5,533	441	884	293	127	Q	Q
Census Region and Division								
Northeast	726	12,905	1,271	1,519	503	428	175	165
New England	233	2,964	294	326	108	75	69	Q
Middle Atlantic	493	9,941	978	1,192	395	353	106	Q
Midwest	1,266	17,080	1,690	2,224	737	705	24	225
East North Central	696	11,595	1,254	1,580	524	528	Q	192
West North Central	571	5,485	436	643	213	177	Q	Q
South	1,775	23,489	1,948	3,858	1,278	474	14	182
South Atlantic	874	12,258	1,064	2,166	717	217	13	117
East South Central	348	3,393	309	515	171	102	1	Q
West South Central	553	7,837	575	1,177	390	156	1	Q
West	878	11,310	911	1,568	519	320	9	Q
Mountain	299	3,675	381	576	191	167	Q	Q
Pacific	580	7,635	530	992	329	153	4	Q

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

	All Buildings*		Total Energy Consumption (trillion Btu)					
				Electricity				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Primary	Site	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634
Climate Zone: 30-Year Average								
Under 2,000 CDD and --								
More than 7,000 HDD	855	10,622	990	1,232	408	431	63	88
5,500-7,000 HDD	1,173	17,335	1,761	2,305	763	679	63	255
4,000-5,499 HDD	673	11,504	1,134	1,713	567	337	90	140
Fewer than 4,000 HDD	1,276	15,739	1,213	2,259	748	358	6	101
2,000 CDD or More and --								
Fewer than 4,000 HDD	669	9,584	724	1,659	549	122	1	Q
Number of Floors								
One	3,136	25,981	1,937	3,442	1,140	664	47	Q
Two	1,031	16,270	1,311	2,080	689	491	69	Q
Three	339	7,501	619	863	286	241	39	Q
Four to Nine	128	10,085	1,336	1,796	595	378	55	308
Ten or More	12	4,947	617	987	327	154	13	123
Elevators and Escalators (more than one may apply)								
Any Elevators	309	24,617	2,826	4,289	1,421	830	84	491
Number of Elevators								
One	208	8,221	732	1,069	354	244	23	111
Two to Five	88	10,129	1,157	1,767	585	333	46	194
Six or More	13	6,268	937	1,453	481	254	16	186
Any Escalators	6	2,350	282	583	193	61	Q	Q
Number of Workers (main shift)								
Fewer than 5	2,653	15,492	817	1,122	372	272	69	Q
5 to 9	778	6,166	468	749	248	198	17	Q
10 to 19	563	7,803	594	915	303	242	33	Q
20 to 49	398	10,989	1,050	1,581	524	395	36	96
50 to 99	147	7,934	728	1,218	403	241	27	Q
100 to 249	77	6,871	838	1,388	460	235	19	124
250 or More	30	9,528	1,325	2,195	727	344	22	232
Weekly Operating Hours								
Fewer than 40	1,002	6,863	228	272	90	107	15	Q
40 to 48	1,117	11,622	773	1,199	397	249	58	Q
49 to 60	1,062	15,723	1,179	1,805	598	374	32	176
61 to 84	591	10,334	924	1,500	497	314	40	73
85 to 167	400	7,092	889	1,579	523	257	18	91
Open Continuously	475	13,149	1,827	2,813	932	626	59	210
Ownership and Occupancy								
Nongovernment Owned	4,011	49,421	4,203	6,944	2,300	1,503	154	247
Owner Occupied	1,841	23,591	2,060	3,280	1,086	708	81	185
Nonowner Occupied	2,029	23,914	2,115	3,639	1,205	779	72	Q
Unoccupied	141	1,916	Q	25	8	Q	Q	Q
Government Owned	635	15,363	1,617	2,224	737	425	69	387
Federal	46	1,956	303	395	131	35	Q	Q
State	164	3,808	513	616	204	98	23	188
Local	425	9,599	800	1,213	402	291	39	Q
Vacancy Status								
Completely Vacant	157	2,161	37	28	9	18	Q	Q
Mostly Vacant	25	406	Q	Q	Q	Q	Q	N
Partially Vacant	548	12,382	1,086	1,736	575	318	30	164
Not At All Vacant	3,915	49,834	4,681	7,386	2,446	1,582	191	461

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

	All Buildings*		Total Energy Consumption (trillion Btu)					
				Electricity				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Primary	Site	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634
Number of Establishments								
One	3,754	45,144	4,167	6,454	2,138	1,462	183	384
2 to 5	643	10,960	992	1,517	502	307	28	156
6 to 10	55	1,958	216	348	115	48	Q	Q
11 to 20	23	1,951	152	295	98	34	Q	Q
More than 20	14	2,609	257	526	174	58	Q	Q
Currently Unoccupied	157	2,161	37	28	9	18	Q	Q
Predominant Exterior Wall Material								
Brick, Stone or Stucco	2,044	32,817	3,186	4,549	1,507	1,127	144	408
Concrete (Block or Poured)	786	10,832	974	1,599	530	351	24	Q
Concrete Panels	131	6,559	667	1,205	399	180	Q	Q
Siding or Shingles	779	4,120	276	452	150	85	41	Q
Metal Panels	825	7,912	463	897	297	130	8	Q
Window Glass	17	1,024	95	201	67	14	0	Q
Other	47	1,113	121	190	63	35	Q	Q
No One Major Type	18	406	Q	Q	Q	Q	Q	Q
Predominant Roof Material								
Built-Up	1,036	21,170	2,083	3,143	1,041	743	37	263
Shingles (Not Wood)	1,325	10,195	823	1,247	413	310	63	Q
Metal Surfacing	1,288	11,944	630	1,184	392	194	21	Q
Synthetic or Rubber	511	14,730	1,649	2,686	890	542	46	171
Slate or Tile	263	2,462	207	313	104	67	12	Q
Wooden Materials	122	887	68	111	37	21	Q	Q
Concrete	61	2,231	236	299	99	24	Q	Q
Other	16	598	Q	125	41	Q	Q	Q
No One Major Type	25	565	40	61	20	16	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)								
Any Type of Renovation Since 1980	1,018	17,844	1,766	2,356	780	684	105	197
Addition or Annex	256	6,551	733	951	315	304	Q	Q
Reduction In Floorspace	22	1,012	117	158	52	52	Q	Q
Cosmetic Improvements	741	13,119	1,317	1,812	600	497	77	143
Wall or Roof Replacement	370	8,070	777	1,046	347	278	54	99
Interior Wall Re-Configuration	411	8,518	911	1,212	401	342	44	124
HVAC Equipment Upgrade	442	10,768	1,156	1,591	527	467	34	128
Lighting Upgrade	455	10,275	1,085	1,442	478	397	53	157
Window Replacement	310	6,354	613	757	251	242	50	Q
Plumbing System Upgrade	315	7,144	748	947	314	287	45	103
Insulation Upgrade	227	4,015	381	526	174	132	21	Q
Other Renovation	19	523	50	49	16	26	Q	Q
No Renovations Since 1980	1,710	18,714	1,482	1,953	647	512	94	229
Building Newer than 1980	1,917	28,225	2,573	4,859	1,609	732	23	208

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

	All Buildings*		Total Energy Consumption (trillion Btu)					
				Electricity				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Primary	Site	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634
Energy Sources (more than one may apply)								
Electricity	4,404	63,307	5,820	9,168	3,037	1,927	222	634
Natural Gas	2,391	43,468	4,492	6,524	2,161	1,928	99	305
Fuel Oil	451	15,157	1,760	2,578	854	507	222	177
District Heat	67	5,443	1,017	1,011	335	47	1	634
District Chilled Water	33	2,853	538	580	192	35	2	309
Propane	502	7,076	584	1,022	339	106	54	Q
Other	132	1,401	139	233	77	47	Q	Q
Space-Heating Energy Sources (more than one may apply)								
Electricity	1,766	28,600	2,373	4,696	1,555	667	29	122
Natural Gas	2,165	36,959	3,682	5,401	1,789	1,803	30	Q
Fuel Oil	360	5,988	591	588	195	176	212	Q
District Heat	65	5,198	994	967	320	39	1	633
Propane	372	3,204	160	362	120	Q	11	Q
Other	113	842	61	122	41	18	Q	N
Primary Space-Heating Energy Source								
Electricity	1,258	15,996	1,089	2,739	907	177	3	Q
Natural Gas	1,999	32,970	3,280	4,724	1,565	1,687	15	Q
Fuel Oil	282	3,818	294	232	77	20	197	N
District Heat	63	4,907	951	935	310	23	1	618
Propane	308	1,955	71	211	70	Q	Q	Q
Other	72	382	19	47	16	Q	Q	N
Cooling Energy Sources (more than one may apply)								
Electricity	3,589	54,321	5,021	8,386	2,778	1,762	174	307
Natural Gas	17	1,018	159	189	63	92	Q	Q
District Chilled Water	33	2,853	538	580	192	35	2	309
Water-Heating Energy Sources (more than one may apply)								
Electricity	1,910	27,490	2,145	4,146	1,373	522	84	167
Natural Gas	1,445	28,820	3,206	4,592	1,521	1,509	56	Q
Fuel Oil	94	1,880	206	176	58	36	109	Q
District Heat	27	3,088	563	603	200	33	Q	329
Propane	128	1,422	81	191	63	Q	Q	Q
Cooking Energy Sources (more than one may apply)								
Electricity	410	13,161	1,579	2,561	848	538	47	146
Natural Gas	457	15,438	2,074	2,970	984	856	76	158
Propane	108	1,460	114	240	80	Q	25	Q
Energy End Uses (more than one may apply)								
Buildings with Space Heating	3,982	60,028	5,705	8,887	2,944	1,909	219	634
Buildings with Cooling	3,625	56,940	5,464	8,855	2,933	1,821	176	535
Buildings with Water Heating	3,472	56,478	5,498	8,732	2,892	1,870	213	523
Buildings with Cooking	801	22,237	2,712	4,158	1,377	997	119	219
Buildings with Manufacturing	119	3,138	254	426	141	100	7	Q
Buildings with Electricity Generation	149	12,821	1,693	2,687	890	534	31	237

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

	All Buildings*		Total Energy Consumption (trillion Btu)					
				Electricity				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Primary	Site	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634
Percent of Floorspace Heated								
Not Heated	663	4,756	115	281	93	Q	Q	Q
1 to 50	523	6,850	299	565	187	97	13	Q
51 to 99	498	8,107	746	1,193	395	268	26	57
100	2,962	45,071	4,660	7,129	2,361	1,544	180	575
Percent of Floorspace Cooled								
Not Cooled	1,020	7,843	356	312	104	107	46	Q
1 to 50	985	16,598	1,026	1,339	444	452	93	Q
51 to 99	629	13,211	1,413	2,252	746	451	45	171
100	2,011	27,132	3,026	5,265	1,744	918	38	326
Percent Lit When Open								
Zero	47	293	Q	Q	Q	Q	Q	Q
1 to 50	929	10,203	540	679	225	224	50	Q
51 to 99	1,108	18,288	1,736	2,698	894	576	67	199
100	2,176	32,789	3,490	5,740	1,901	1,100	104	385
Building Never Open/ Electricity Not Used	386	3,210	46	37	12	23	Q	Q
Percent Lit When Closed								
Zero	1,964	17,385	1,132	1,639	543	395	48	Q
1 to 50	1,882	30,948	2,626	4,248	1,407	868	107	244
51 to 100	136	2,093	235	468	155	40	Q	Q
Building Never Closed/ Electricity Not Used	664	14,357	1,827	2,813	932	626	60	210
Heating Equipment (more than one may apply)								
Heat Pumps	476	8,814	805	1,578	523	224	6	Q
Packaged Heat Pumps	278	5,442	523	1,085	359	140	3	Q
Split-System Heat Pumps	166	2,581	198	410	136	42	Q	Q
Individual Room Heat Pumps	58	2,691	255	448	148	84	Q	Q
Furnaces	1,864	19,615	1,493	2,298	761	673	50	Q
Individual Space Heaters	819	12,545	1,024	1,701	563	379	31	50
District Heat	65	5,166	986	958	317	39	1	628
Boilers	579	20,423	2,244	3,045	1,009	1,040	171	Q
Packaged Heating Units	953	18,021	1,729	3,195	1,058	582	17	Q
Other	205	3,262	231	508	168	47	5	Q
Cooling Equipment (more than one may apply)								
Residential-Type Central Air Conditioners	1,006	11,035	924	1,375	455	391	56	Q
Heat Pumps	492	9,041	837	1,652	547	234	6	Q
Packaged Heat Pumps	288	5,426	529	1,086	360	145	Q	Q
Split-System Heat Pumps	174	2,606	204	421	139	45	Q	Q
Individual Room Heat Pumps	58	2,940	278	518	171	85	Q	Q
Individual Air Conditioners	742	12,558	1,080	1,445	479	410	99	91
District Chilled Water	33	2,853	538	580	192	35	2	309
Central Chillers	111	11,636	1,531	2,524	836	501	26	169
Packaged Air Conditioning Units	1,613	29,969	2,862	4,765	1,578	1,090	85	110
Swamp Coolers	122	1,561	158	227	75	81	Q	Q
Other	40	1,232	142	225	75	52	Q	Q

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

	All Buildings*		Total Energy Consumption (trillion Btu)					
				Electricity				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Primary	Site	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634
Main Equipment Replaced Since 1990 (more than one may apply)								
Heating	1,197	16,403	1,367	2,161	716	605	43	Q
Cooling	1,356	20,995	1,949	2,947	976	779	103	91
Water Heating Equipment								
Centralized System	2,513	34,671	3,432	5,310	1,759	1,226	161	286
Distributed System	785	11,540	835	1,458	483	254	31	Q
Combination of Centralized and Distributed System	175	10,267	1,231	1,964	651	390	20	170
Lighting Equipment Types (more than one may apply)								
Incandescent	2,184	38,528	3,916	6,057	2,006	1,351	161	398
Standard Fluorescent	3,943	59,688	5,644	8,909	2,951	1,865	214	614
Compact Fluorescent	941	27,571	3,208	5,027	1,665	1,025	98	419
High Intensity Discharge	455	20,643	2,141	3,400	1,126	693	52	270
Halogen	565	17,703	1,982	3,226	1,069	666	65	182
Other	8	269	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)[a]								
Any Refrigeration	3,176	52,974	5,213	8,366	2,771	1,729	200	513
Commercial Refrigeration	1,007	26,768	3,336	5,397	1,788	1,124	126	299
Walk-In Units	666	20,254	2,766	4,496	1,489	939	95	243
Cases or Cabinets	825	20,424	2,703	4,349	1,441	910	95	257
Residential-Type Units	2,370	38,884	3,466	5,342	1,769	1,181	159	357
Vending Machines	996	35,335	3,721	5,992	1,985	1,163	105	468
No Refrigeration	1,469	11,809	607	802	266	198	23	Q
Office Equipment (more than one may apply)								
Computers	3,081	55,627	5,376	8,567	2,838	1,750	196	593
With Flat Screen Monitors	877	26,417	2,966	4,797	1,589	872	88	417
Dedicated Servers	1,175	36,338	3,760	6,143	2,035	1,190	105	431
Laser Printers	1,970	33,012	3,009	4,679	1,550	1,067	124	268
Inkjet Printers	1,420	32,210	3,302	5,495	1,820	1,041	74	368
FAX Machines	2,715	52,373	5,092	8,154	2,701	1,689	184	517
Photocopiers	1,939	46,257	4,466	7,128	2,361	1,429	155	521
Number of Computers								
None	1,565	9,156	444	601	199	178	27	Q
1 to 4	1,670	12,395	1,015	1,578	523	357	74	Q
5 to 9	559	7,179	546	826	274	249	15	Q
10 to 19	370	6,610	515	859	285	196	13	Q
20 to 49	255	7,414	707	1,233	408	232	15	Q
50 to 99	110	5,376	513	781	259	147	35	Q
100 to 249	79	6,690	714	1,111	368	208	17	121
250 or More	38	9,963	1,366	2,179	722	360	27	257
Number of Dedicated Servers								
None	3,471	28,445	2,060	3,025	1,002	738	118	203
1 to 4	1,060	24,116	2,234	3,520	1,166	809	74	184
5 to 9	58	3,864	405	756	250	112	14	Q
10 to 19	30	3,027	432	653	216	101	5	109
20 to 49	17	2,583	307	552	183	76	7	Q
50 or More	10	2,748	382	662	219	91	5	Q

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

	All Buildings*		Total Energy Consumption (trillion Btu)					
				Electricity				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Primary	Site	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634
Number of Photocopiers								
None	2,706	18,526	1,355	2,040	676	498	68	Q
One	1,250	15,475	1,130	1,792	593	429	55	Q
2 to 4	549	15,082	1,334	2,132	706	451	41	137
5 to 9	85	5,515	612	976	323	191	35	Q
10 or More	54	10,185	1,389	2,229	738	359	25	268
Energy-Related Space Functions (more than one may apply)								
Commercial Food Preparation	799	22,223	2,711	4,155	1,376	996	119	219
Activities with Large Amounts of Hot Water	567	19,482	2,465	3,522	1,167	931	95	273
Separate Computer Area	553	26,873	2,895	4,678	1,550	875	96	374
HVAC Conservation Features (more than one may apply)								
Variable Air-Volume System	466	19,597	2,380	3,827	1,267	710	35	368
Economizer Cycle	508	21,108	2,589	4,251	1,408	805	42	334
HVAC Maintenance	2,581	51,163	5,170	8,161	2,703	1,659	196	612
Energy Management and Control System (EMCS)	252	15,630	1,782	2,881	954	477	31	320
Window and Interior Lighting Features (more than one may apply)								
Multipaned Windows	2,201	38,910	3,929	6,109	2,024	1,349	171	386
Tinted Window Glass	1,323	29,887	3,098	5,077	1,682	947	44	425
Reflective Window Glass	308	8,544	927	1,576	522	306	16	83
External Overhangs or Awnings	1,233	17,242	1,737	2,900	961	594	59	124
Skylights or Atriums	331	12,546	1,307	1,948	645	465	48	148
Daylighting Sensors	74	2,868	377	623	206	124	3	Q
Specular Reflectors	928	26,118	2,829	4,488	1,487	862	89	391
Electronic Ballasts	2,577	46,882	4,746	7,543	2,498	1,513	156	578
Energy Management and Control System (EMCS) For Lighting	60	4,781	538	939	311	133	6	Q
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]								
Heating	2,878	42,722	3,740	5,828	1,930	1,292	162	356
Cooling	2,761	43,205	3,844	6,132	2,031	1,288	135	390
Lighting	3,685	46,987	3,818	6,057	2,006	1,250	156	406
Office Equipment	1,504	19,397	1,465	2,177	721	476	92	Q

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

	All Buildings*		Total Energy Consumption (trillion Btu)					
				Electricity				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Primary	Site	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use the particular energy source.

Notes: ● Site electricity is the amount of electricity delivered to commercial buildings. Primary electricity, which is not included in the "Total of Major Fuels" category, is site electricity plus the conversion losses in the generation, transmission, and distribution processes. ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	All Buildings*		Total Energy Expenditures (million dollars)				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	92,577	69,032	14,525	1,776	7,245
Building Floorspace (Square Feet)							
1,001 to 5,000	2,552	6,789	12,812	10,348	2,155	292	Q
5,001 to 10,000	889	6,585	9,398	7,296	1,689	307	Q
10,001 to 25,000	738	11,535	13,140	10,001	2,524	232	Q
25,001 to 50,000	241	8,668	10,392	7,871	1,865	127	Q
50,001 to 100,000	129	9,057	11,897	8,717	1,868	203	Q
100,001 to 200,000	65	9,064	13,391	9,500	1,737	272	Q
200,001 to 500,000	25	7,176	10,347	7,323	1,343	272	Q
Over 500,000	7	5,908	11,201	7,977	1,344	71	1,810
Principal Building Activity							
Education	386	9,874	12,008	8,111	1,889	362	Q
Food Sales	226	1,255	4,990	4,627	332	Q	N
Food Service	297	1,654	6,865	5,176	1,615	Q	Q
Health Care	129	3,163	7,440	4,882	1,538	79	Q
Inpatient	8	1,905	5,329	3,198	1,241	67	Q
Outpatient	121	1,258	2,111	1,684	297	Q	Q
Lodging	142	5,096	7,445	5,288	1,581	272	Q
Retail (Other Than Mall)	443	4,317	5,980	5,132	719	117	Q
Office	824	12,208	20,841	17,050	2,201	149	1,441
Public Assembly	277	3,939	5,790	3,943	775	230	Q
Public Order and Safety	71	1,090	1,917	1,216	234	Q	Q
Religious Worship	370	3,754	2,457	1,628	664	Q	Q
Service	622	4,050	4,779	3,485	1,096	Q	Q
Warehouse and Storage	597	10,078	6,894	5,034	976	74	Q
Other	79	1,738	4,420	3,049	684	Q	Q
Vacant	182	2,567	751	412	220	Q	Q
Year Constructed							
Before 1920	330	3,769	4,131	2,319	1,134	304	Q
1920 to 1945	527	6,871	8,670	5,123	1,708	417	1,423
1946 to 1959	562	7,045	8,540	5,729	1,610	392	Q
1960 to 1969	579	8,101	11,378	7,714	1,872	Q	Q
1970 to 1979	731	10,772	16,129	12,637	2,466	182	Q
1980 to 1989	707	10,332	17,346	13,902	2,270	78	Q
1990 to 1999	876	12,360	18,761	15,236	2,452	72	Q
2000 to 2003	334	5,533	7,623	6,373	1,012	Q	Q
Census Region and Division							
Northeast	726	12,905	21,344	14,262	3,553	1,393	2,136
New England	233	2,964	4,851	3,125	673	557	Q
Middle Atlantic	493	9,941	16,493	11,137	2,880	836	Q
Midwest	1,266	17,080	21,521	14,172	4,844	176	2,329
East North Central	696	11,595	15,908	10,220	3,649	Q	Q
West North Central	571	5,485	5,613	3,952	1,195	Q	Q
South	1,775	23,489	31,595	25,540	3,866	125	Q
South Atlantic	874	12,258	17,563	14,155	1,934	112	Q
East South Central	348	3,393	4,569	3,348	817	Q	Q
West South Central	553	7,837	9,463	8,037	1,115	5	Q
West	878	11,310	18,118	15,057	2,261	81	Q
Mountain	299	3,675	5,629	4,272	1,089	Q	Q
Pacific	580	7,635	12,488	10,786	1,172	Q	Q

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

	All Buildings*		Total Energy Expenditures (million dollars)				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	92,577	69,032	14,525	1,776	7,245
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	855	10,622	13,709	9,135	3,076	471	Q
5,500-7,000 HDD	1,173	17,335	24,455	16,298	4,901	530	Q
4,000-5,499 HDD	673	11,504	18,507	13,354	2,702	713	Q
Fewer than 4,000 HDD	1,276	15,739	22,372	18,211	2,920	54	Q
2,000 CDD or More and --							
Fewer than 4,000 HDD	669	9,584	13,534	12,034	925	8	Q
Number of Floors							
One	3,136	25,981	33,617	26,809	5,406	397	Q
Two	1,031	16,270	20,932	16,066	3,627	550	Q
Three	339	7,501	9,143	6,389	1,816	304	Q
Four to Nine	128	10,085	18,968	12,517	2,560	428	3,462
Ten or More	12	4,947	9,917	7,251	1,116	97	1,454
Elevators and Escalators (more than one may apply)							
Any Elevators	309	24,617	42,252	30,227	5,802	641	5,582
Number of Elevators							
One	208	8,221	10,967	7,712	1,713	172	Q
Two to Five	88	10,129	17,217	12,340	2,387	343	2,147
Six or More	13	6,268	14,068	10,175	1,702	125	2,066
Any Escalators	6	2,350	4,861	4,096	Q	Q	Q
Number of Workers (main shift)							
Fewer than 5	2,653	15,492	13,615	9,503	2,308	578	Q
5 to 9	778	6,166	8,265	6,390	1,666	151	Q
10 to 19	563	7,803	9,936	7,647	1,841	254	Q
20 to 49	398	10,989	16,406	11,966	2,951	274	Q
50 to 99	147	7,934	11,165	8,532	1,780	204	Q
100 to 249	77	6,871	12,970	9,768	1,652	146	Q
250 or More	30	9,528	20,222	15,224	2,327	169	2,502
Weekly Operating Hours							
Fewer than 40	1,002	6,863	3,695	2,489	892	133	Q
40 to 48	1,117	11,622	12,749	9,577	2,018	457	Q
49 to 60	1,062	15,723	19,461	14,232	2,928	260	2,041
61 to 84	591	10,334	15,040	11,559	2,373	309	Q
85 to 167	400	7,092	14,287	11,188	1,906	151	Q
Open Continuously	475	13,149	27,346	19,987	4,407	466	2,486
Ownership and Occupancy							
Nongovernment Owned	4,011	49,421	69,675	54,122	11,558	1,249	2,746
Owner Occupied	1,841	23,591	33,551	25,441	5,361	671	2,078
Nonowner Occupied	2,029	23,914	35,713	28,446	6,070	578	Q
Unoccupied	141	1,916	Q	Q	Q	Q	Q
Government Owned	635	15,363	22,902	14,910	2,967	526	4,499
Federal	46	1,956	3,964	2,159	226	Q	Q
State	164	3,808	7,090	3,973	748	170	Q
Local	425	9,599	11,849	8,777	1,993	299	Q
Vacancy Status							
Completely Vacant	157	2,161	516	258	142	Q	Q
Mostly Vacant	25	406	Q	Q	Q	Q	N
Partially Vacant	548	12,382	17,624	13,209	2,477	231	1,708
Not At All Vacant	3,915	49,834	74,203	55,411	11,828	1,536	5,427

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

	All Buildings*		Total Energy Expenditures (million dollars)				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	92,577	69,032	14,525	1,776	7,245
Number of Establishments							
One	3,754	45,144	65,153	48,376	10,950	1,466	4,361
2 to 5	643	10,960	16,030	11,440	2,377	224	Q
6 to 10	55	1,958	3,402	2,632	366	Q	Q
11 to 20	23	1,951	2,718	2,268	248	Q	Q
More than 20	14	2,609	4,759	4,057	441	Q	Q
Currently Unoccupied	157	2,161	516	258	142	Q	Q
Predominant Exterior Wall Material							
Brick, Stone or Stucco	2,044	32,817	48,399	34,133	8,403	1,135	4,728
Concrete (Block or Poured)	786	10,832	16,015	12,417	2,622	206	Q
Concrete Panels	131	6,559	10,792	8,417	1,326	Q	Q
Siding or Shingles	779	4,120	5,071	4,007	735	323	Q
Metal Panels	825	7,912	8,196	6,726	1,059	77	Q
Window Glass	17	1,024	1,709	1,462	83	Q	Q
Other	47	1,113	1,801	1,416	248	Q	Q
No One Major Type	18	406	Q	Q	Q	Q	Q
Predominant Roof Material							
Built-Up	1,036	21,170	33,145	24,170	5,529	302	3,144
Shingles (Not Wood)	1,325	10,195	13,564	10,264	2,482	529	Q
Metal Surfacing	1,288	11,944	10,782	8,837	1,516	165	Q
Synthetic or Rubber	511	14,730	24,825	18,633	3,905	367	Q
Slate or Tile	263	2,462	3,794	2,816	562	94	Q
Wooden Materials	122	887	1,140	869	160	Q	Q
Concrete	61	2,231	3,373	2,029	168	Q	Q
Other	16	598	Q	845	Q	Q	Q
No One Major Type	25	565	719	568	124	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)							
Any Type of Renovation Since 1980	1,018	17,844	25,657	17,830	4,851	806	2,170
Addition or Annex	256	6,551	9,530	6,501	1,982	Q	Q
Reduction In Floorspace	22	1,012	1,710	1,180	390	Q	Q
Cosmetic Improvements	741	13,119	19,621	13,845	3,587	593	1,595
Wall or Roof Replacement	370	8,070	11,653	8,129	1,966	422	Q
Interior Wall Re-Configuration	411	8,518	13,131	9,035	2,430	352	1,315
HVAC Equipment Upgrade	442	10,768	16,899	11,822	3,281	277	1,520
Lighting Upgrade	455	10,275	15,732	10,741	2,868	417	1,706
Window Replacement	310	6,354	9,102	6,168	1,734	391	Q
Plumbing System Upgrade	315	7,144	10,965	7,360	2,051	343	1,211
Insulation Upgrade	227	4,015	5,868	4,065	978	170	Q
Other Renovation	19	523	791	517	Q	Q	Q
No Renovations Since 1980	1,710	18,714	23,191	15,691	3,939	778	Q
Building Newer than 1980	1,917	28,225	43,729	35,511	5,734	192	Q

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

	All Buildings*		Total Energy Expenditures (million dollars)				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	92,577	69,032	14,525	1,776	7,245
Energy Sources (more than one may apply)							
Electricity	4,404	63,307	92,574	69,032	14,523	1,774	7,245
Natural Gas	2,391	43,468	67,462	48,584	14,525	775	3,578
Fuel Oil	451	15,157	25,905	18,631	3,539	1,776	1,960
District Heat	67	5,443	14,098	6,519	323	10	7,245
District Chilled Water	33	2,853	7,647	3,667	244	13	Q
Propane	502	7,076	9,424	7,234	751	410	Q
Other	132	1,401	2,032	1,539	330	26	Q
Space-Heating Energy Sources (more than one may apply)							
Electricity	1,766	28,600	41,737	34,865	5,056	236	Q
Natural Gas	2,165	36,959	54,959	40,545	13,515	243	Q
Fuel Oil	360	5,988	7,485	4,513	1,194	1,676	Q
District Heat	65	5,198	13,623	6,106	270	8	7,238
Propane	372	3,204	3,303	2,985	Q	84	Q
Other	113	842	956	796	138	Q	N
Primary Space-Heating Energy Source							
Electricity	1,258	15,996	22,011	20,527	1,434	29	Q
Natural Gas	1,999	32,970	48,198	35,355	12,586	132	Q
Fuel Oil	282	3,818	3,963	2,246	162	1,555	N
District Heat	63	4,907	13,178	5,910	172	8	7,089
Propane	308	1,955	1,928	1,909	Q	Q	Q
Other	72	382	338	306	Q	Q	N
Cooling Energy Sources (more than one may apply)							
Electricity	3,589	54,321	81,478	63,402	13,267	1,371	3,438
Natural Gas	17	1,018	2,005	1,291	672	Q	Q
District Chilled Water	33	2,853	7,647	3,667	244	13	Q
Water-Heating Energy Sources (more than one may apply)							
Electricity	1,910	27,490	36,908	30,298	4,084	666	1,859
Natural Gas	1,445	28,820	47,610	34,524	11,092	441	Q
Fuel Oil	94	1,880	2,700	1,598	220	849	Q
District Heat	27	3,088	8,155	4,241	218	Q	3,690
Propane	128	1,422	1,871	1,734	Q	Q	Q
Cooking Energy Sources (more than one may apply)							
Electricity	410	13,161	23,623	17,845	3,843	363	1,572
Natural Gas	457	15,438	29,444	20,873	6,157	587	1,827
Propane	108	1,460	2,508	2,203	Q	201	Q
Energy End Uses (more than one may apply)							
Buildings with Space Heating	3,982	60,028	89,615	66,253	14,377	1,744	7,242
Buildings with Cooling	3,625	56,940	87,739	66,555	13,718	1,387	6,079
Buildings with Water Heating	3,472	56,478	87,218	65,526	14,025	1,682	5,984
Buildings with Cooking	801	22,237	40,266	29,777	7,163	929	2,396
Buildings with Manufacturing	119	3,138	3,950	3,117	718	56	Q
Buildings with Electricity Generation	149	12,821	25,422	18,679	3,718	253	2,772

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

	All Buildings*		Total Energy Expenditures (million dollars)				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	92,577	69,032	14,525	1,776	7,245
Percent of Floorspace Heated							
Not Heated	663	4,756	2,962	2,779	Q	Q	Q
1 to 50	523	6,850	5,600	4,645	831	109	Q
51 to 99	498	8,107	11,972	9,096	2,078	206	Q
100	2,962	45,071	72,043	52,512	11,468	1,428	6,635
Percent of Floorspace Cooled							
Not Cooled	1,020	7,843	4,838	2,476	807	389	Q
1 to 50	985	16,598	15,503	10,901	3,465	728	Q
51 to 99	629	13,211	22,446	16,916	3,341	355	1,833
100	2,011	27,132	49,791	38,738	6,912	304	Q
Percent Lit When Open							
Zero	47	293	Q	Q	Q	Q	Q
1 to 50	929	10,203	8,599	5,942	1,768	407	Q
51 to 99	1,108	18,288	28,253	20,893	4,324	539	2,498
100	2,176	32,789	54,958	41,762	8,222	820	4,154
Building Never Open/ Electricity Not Used	386	3,210	635	325	191	Q	Q
Percent Lit When Closed							
Zero	1,964	17,385	18,308	13,104	3,185	418	Q
1 to 50	1,882	30,948	43,011	32,796	6,620	831	2,764
51 to 100	136	2,093	3,910	3,144	311	Q	Q
Building Never Closed/ Electricity Not Used	664	14,357	27,349	19,987	4,409	468	2,486
Heating Equipment (more than one may apply)							
Heat Pumps	476	8,814	14,249	11,629	1,804	50	Q
Packaged Heat Pumps	278	5,442	9,330	7,929	1,115	Q	Q
Split-System Heat Pumps	166	2,581	3,696	2,946	361	Q	Q
Individual Room Heat Pumps	58	2,691	4,199	3,289	648	Q	Q
Furnaces	1,864	19,615	23,489	17,887	5,095	417	Q
Individual Space Heaters	819	12,545	15,964	12,387	2,720	253	Q
District Heat	65	5,166	13,505	6,051	269	8	7,177
Boilers	579	20,423	31,052	22,045	7,418	1,337	Q
Packaged Heating Units	953	18,021	29,902	24,318	4,477	139	Q
Other	205	3,262	3,988	3,451	368	46	Q
Cooling Equipment (more than one may apply)							
Residential-Type Central Air Conditioners	1,006	11,035	14,441	10,746	2,867	428	Q
Heat Pumps	492	9,041	14,738	12,060	1,887	49	Q
Packaged Heat Pumps	288	5,426	9,356	7,909	1,163	Q	Q
Split-System Heat Pumps	174	2,606	3,776	3,005	382	Q	Q
Individual Room Heat Pumps	58	2,940	4,621	3,721	660	Q	Q
Individual Air Conditioners	742	12,558	16,175	11,268	3,040	790	1,077
District Chilled Water	33	2,853	7,647	3,667	244	13	Q
Central Chillers	111	11,636	22,448	17,065	3,461	205	1,717
Packaged Air Conditioning Units	1,613	29,969	46,331	36,258	8,210	654	1,208
Swamp Coolers	122	1,561	2,350	1,808	520	Q	Q
Other	40	1,232	2,096	1,540	377	Q	Q

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

	All Buildings*		Total Energy Expenditures (million dollars)				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	92,577	69,032	14,525	1,776	7,245
Main Equipment Replaced Since 1990 (more than one may apply)							
Heating	1,197	16,403	21,542	16,626	4,519	349	Q
Cooling	1,356	20,995	30,387	22,737	5,761	794	Q
Water Heating Equipment							
Centralized System	2,513	34,671	54,768	40,871	9,346	1,286	3,266
Distributed System	785	11,540	14,394	11,253	1,989	244	Q
Combination of Centralized and Distributed System	175	10,267	18,056	13,401	2,691	153	1,811
Lighting Equipment Types (more than one may apply)							
Incandescent	2,184	38,528	60,359	44,422	9,937	1,297	4,703
Standard Fluorescent	3,943	59,688	89,627	66,864	14,039	1,707	7,016
Compact Fluorescent	941	27,571	49,570	36,584	7,428	774	4,784
High Intensity Discharge	455	20,643	31,999	23,651	4,907	404	3,037
Halogen	565	17,703	30,218	23,011	4,680	506	2,021
Other	8	269	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)[a]							
Any Refrigeration	3,176	52,974	82,557	62,357	12,913	1,575	5,713
Commercial Refrigeration	1,007	26,768	50,937	38,581	8,073	961	3,322
Walk-In Units	666	20,254	41,811	31,769	6,648	726	2,668
Cases or Cabinets	825	20,424	41,463	31,335	6,571	732	2,825
Residential-Type Units	2,370	38,884	54,108	39,936	8,848	1,259	4,065
Vending Machines	996	35,335	56,290	42,043	8,276	811	5,159
No Refrigeration	1,469	11,809	10,020	6,675	1,612	200	Q
Office Equipment (more than one may apply)							
Computers	3,081	55,627	85,407	64,010	13,089	1,544	6,764
With Flat Screen Monitors	877	26,417	46,704	34,985	6,287	688	4,743
Dedicated Servers	1,175	36,338	59,377	44,941	8,657	809	4,969
Laser Printers	1,970	33,012	47,880	36,031	7,946	999	2,904
Inkjet Printers	1,420	32,210	52,520	39,920	7,784	582	4,234
FAX Machines	2,715	52,373	80,902	60,928	12,641	1,440	5,892
Photocopiers	1,939	46,257	70,079	52,409	10,542	1,198	5,930
Number of Computers							
None	1,565	9,156	7,170	5,021	1,436	232	Q
1 to 4	1,670	12,395	17,257	12,918	3,015	602	Q
5 to 9	559	7,179	8,649	6,606	1,844	130	Q
10 to 19	370	6,610	8,588	6,741	1,492	99	Q
20 to 49	255	7,414	11,778	9,322	1,765	121	Q
50 to 99	110	5,376	7,888	5,664	1,124	259	Q
100 to 249	79	6,690	10,790	7,675	1,472	126	Q
250 or More	38	9,963	20,456	15,085	2,377	207	2,787
Number of Dedicated Servers							
None	3,471	28,445	33,201	24,090	5,867	967	Q
1 to 4	1,060	24,116	34,991	26,074	6,056	578	Q
5 to 9	58	3,864	6,784	5,608	796	100	Q
10 to 19	30	3,027	6,267	4,457	665	38	Q
20 to 49	17	2,583	4,740	3,685	518	52	Q
50 or More	10	2,748	6,594	5,118	623	40	Q

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

	All Buildings*		Total Energy Expenditures (million dollars)				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	92,577	69,032	14,525	1,776	7,245
Number of Photocopiers							
None	2,706	18,526	22,498	16,622	3,983	578	Q
One	1,250	15,475	18,436	14,098	3,295	428	Q
2 to 4	549	15,082	20,980	15,555	3,518	315	Q
5 to 9	85	5,515	9,441	7,138	1,290	268	Q
10 or More	54	10,185	21,223	15,618	2,439	187	2,979
Energy-Related Space Functions (more than one may apply)							
Commercial Food Preparation	799	22,223	40,252	29,771	7,156	929	2,396
Activities with Large Amounts of Hot Water	567	19,482	34,904	24,710	6,466	724	3,003
Separate Computer Area	553	26,873	44,552	33,308	6,230	732	4,282
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	466	19,597	36,254	26,726	5,070	273	4,184
Economizer Cycle	508	21,108	39,593	29,663	5,703	331	3,896
HVAC Maintenance	2,581	51,163	81,328	60,420	12,356	1,565	6,987
Energy Management and Control System (EMCS)	252	15,630	27,646	20,451	3,318	241	3,636
Window and Interior Lighting Features (more than one may apply)							
Multipaned Windows	2,201	38,910	59,356	43,784	10,027	1,331	4,214
Tinted Window Glass	1,323	29,887	49,568	37,166	6,978	359	5,064
Reflective Window Glass	308	8,544	14,414	11,302	2,145	132	835
External Overhangs or Awnings	1,233	17,242	28,248	21,798	4,583	463	1,404
Skylights or Atriums	331	12,546	19,284	14,007	3,210	369	1,697
Daylighting Sensors	74	2,868	6,261	4,847	917	26	Q
Specular Reflectors	928	26,118	43,466	32,092	6,179	684	4,511
Electronic Ballasts	2,577	46,882	74,873	55,837	11,181	1,236	6,619
Energy Management and Control System (EMCS) For Lighting	60	4,781	8,967	6,922	906	47	Q
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]							
Heating	2,878	42,722	60,293	45,100	9,840	1,305	4,048
Cooling	2,761	43,205	62,872	47,552	9,785	1,074	4,461
Lighting	3,685	46,987	62,313	46,811	9,710	1,257	4,534
Office Equipment	1,504	19,397	23,915	17,466	3,666	714	Q

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

	All Buildings*		Total Energy Expenditures (million dollars)				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	92,577	69,032	14,525	1,776	7,245

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use the particular energy source.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	All Buildings*			Sum of Major Fuel Consumption			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)
All Buildings*	4,645	64,783	13.9	5,820	1,253	89.8	79.9
Building Floorspace (Square Feet)							
1,001 to 5,000	2,552	6,789	2.7	672	263	98.9	67.6
5,001 to 10,000	889	6,585	7.4	516	580	78.3	68.7
10,001 to 25,000	738	11,535	15.6	776	1,052	67.3	72.0
25,001 to 50,000	241	8,668	35.9	673	2,790	77.6	75.8
50,001 to 100,000	129	9,057	70.4	759	5,901	83.8	90.0
100,001 to 200,000	65	9,064	138.8	934	14,300	103.0	80.3
200,001 to 500,000	25	7,176	289.0	725	29,189	101.0	105.3
Over 500,000	7	5,908	896.1	766	116,216	129.7	87.6
Principal Building Activity							
Education	386	9,874	25.6	820	2,125	83.1	65.7
Food Sales	226	1,255	5.6	251	1,110	199.7	175.2
Food Service	297	1,654	5.6	427	1,436	258.3	136.5
Health Care	129	3,163	24.6	594	4,612	187.7	94.0
Inpatient	8	1,905	241.4	475	60,152	249.2	127.7
Outpatient	121	1,258	10.4	119	985	94.6	45.8
Lodging	142	5,096	35.8	510	3,578	100.0	207.5
Retail (Other Than Mall)	443	4,317	9.7	319	720	73.9	92.1
Office	824	12,208	14.8	1,134	1,376	92.9	40.3
Public Assembly	277	3,939	14.2	370	1,338	93.9	154.5
Public Order and Safety	71	1,090	15.5	126	1,791	115.8	93.7
Religious Worship	370	3,754	10.1	163	440	43.5	95.6
Service	622	4,050	6.5	312	501	77.0	85.0
Warehouse and Storage	597	10,078	16.9	456	764	45.2	104.3
Other	79	1,738	21.9	286	3,600	164.4	157.1
Vacant	182	2,567	14.1	54	294	20.9	832.1
Year Constructed							
Before 1920	330	3,769	11.4	302	917	80.2	99.3
1920 to 1945	527	6,871	13.0	620	1,176	90.3	101.3
1946 to 1959	562	7,045	12.5	565	1,007	80.3	85.1
1960 to 1969	579	8,101	14.0	737	1,272	90.9	84.6
1970 to 1979	731	10,772	14.7	1,023	1,400	95.0	81.2
1980 to 1989	707	10,332	14.6	1,034	1,463	100.1	68.8
1990 to 1999	876	12,360	14.1	1,098	1,253	88.8	67.8
2000 to 2003	334	5,533	16.6	441	1,319	79.7	98.5
Census Region and Division							
Northeast	726	12,905	17.8	1,271	1,751	98.5	85.3
New England	233	2,964	12.7	294	1,262	99.0	93.0
Middle Atlantic	493	9,941	20.1	978	1,981	98.3	83.2
Midwest	1,266	17,080	13.5	1,690	1,334	98.9	103.2
East North Central	696	11,595	16.7	1,254	1,802	108.1	109.1
West North Central	571	5,485	9.6	436	764	79.5	89.3
South	1,775	23,489	13.2	1,948	1,098	82.9	72.0
South Atlantic	874	12,258	14.0	1,064	1,218	86.8	63.5
East South Central	348	3,393	9.8	309	889	91.1	101.0
West South Central	553	7,837	14.2	575	1,039	73.4	79.2
West	878	11,310	12.9	911	1,037	80.6	63.1
Mountain	299	3,675	12.3	381	1,278	103.8	89.1
Pacific	580	7,635	13.2	530	913	69.4	52.1

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

	All Buildings*			Sum of Major Fuel Consumption			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)
All Buildings*	4,645	64,783	13.9	5,820	1,253	89.8	79.9
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	855	10,622	12.4	990	1,157	93.2	96.1
5,500-7,000 HDD	1,173	17,335	14.8	1,761	1,501	101.6	101.5
4,000-5,499 HDD	673	11,504	17.1	1,134	1,685	98.5	80.9
Fewer than 4,000 HDD	1,276	15,739	12.3	1,213	950	77.0	70.6
2,000 CDD or More and --							
Fewer than 4,000 HDD	669	9,584	14.3	724	1,082	75.5	51.8
Number of Floors							
One	3,136	25,981	8.3	1,937	618	74.6	81.7
Two	1,031	16,270	15.8	1,311	1,272	80.6	81.1
Three	339	7,501	22.1	619	1,825	82.6	77.8
Four to Nine	128	10,085	78.7	1,336	10,423	132.5	84.0
Ten or More	12	4,947	420.0	617	52,356	124.6	68.1
Elevators and Escalators (more than one may apply)							
Any Elevators	309	24,617	79.7	2,826	9,146	114.8	77.3
Number of Elevators							
One	208	8,221	39.5	732	3,514	89.0	80.6
Two to Five	88	10,129	115.1	1,157	13,156	114.3	72.8
Six or More	13	6,268	491.5	937	73,451	149.5	80.8
Any Escalators	6	2,350	388.7	282	46,640	120.0	69.6
Number of Workers (main shift)							
Fewer than 5	2,653	15,492	5.8	817	308	52.8	176.4
5 to 9	778	6,166	7.9	468	602	76.0	92.2
10 to 19	563	7,803	13.9	594	1,056	76.2	81.4
20 to 49	398	10,989	27.6	1,050	2,640	95.6	89.1
50 to 99	147	7,934	53.8	728	4,935	91.7	76.2
100 to 249	77	6,871	89.7	838	10,936	121.9	75.5
250 or More	30	9,528	320.4	1,325	44,551	139.0	56.7
Weekly Operating Hours							
Fewer than 40	1,002	6,863	6.9	228	227	33.2	69.1
40 to 48	1,117	11,622	10.4	773	693	66.5	56.2
49 to 60	1,062	15,723	14.8	1,179	1,111	75.0	61.6
61 to 84	591	10,334	17.5	924	1,563	89.4	79.5
85 to 167	400	7,092	17.7	889	2,226	125.4	84.9
Open Continuously	475	13,149	27.7	1,827	3,846	138.9	126.0
Ownership and Occupancy							
Nongovernment Owned	4,011	49,421	12.3	4,203	1,048	85.1	78.8
Owner Occupied	1,841	23,591	12.8	2,060	1,119	87.3	76.0
Nonowner Occupied	2,029	23,914	11.8	2,115	1,042	88.4	80.6
Unoccupied	141	1,916	13.6	Q	Q	Q	.
Government Owned	635	15,363	24.2	1,617	2,548	105.3	83.1
Federal	46	1,956	42.9	303	6,642	155.0	124.6
State	164	3,808	23.2	513	3,125	134.8	71.3
Local	425	9,599	22.6	800	1,885	83.4	81.4
Vacancy Status							
Completely Vacant	157	2,161	13.8	37	237	17.2	.
Mostly Vacant	25	406	16.1	Q	Q	Q	254.5
Partially Vacant	548	12,382	22.6	1,086	1,981	87.7	63.9
Not At All Vacant	3,915	49,834	12.7	4,681	1,196	93.9	84.0

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

	All Buildings*			Sum of Major Fuel Consumption			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)
All Buildings*	4,645	64,783	13.9	5,820	1,253	89.8	79.9
Number of Establishments							
One	3,754	45,144	12.0	4,167	1,110	92.3	94.5
2 to 5	643	10,960	17.1	992	1,544	90.6	76.3
6 to 10	55	1,958	35.7	216	3,933	110.1	33.3
11 to 20	23	1,951	85.7	152	6,655	77.6	45.3
More than 20	14	2,609	181.1	257	17,833	98.5	43.3
Currently Unoccupied	157	2,161	13.8	37	237	17.2	.
Predominant Exterior Wall Material							
Brick, Stone or Stucco	2,044	32,817	16.1	3,186	1,559	97.1	86.6
Concrete (Block or Poured)	786	10,832	13.8	974	1,239	89.9	93.1
Concrete Panels	131	6,559	50.2	667	5,111	101.7	61.3
Siding or Shingles	779	4,120	5.3	276	355	67.1	60.5
Metal Panels	825	7,912	9.6	463	561	58.5	74.3
Window Glass	17	1,024	60.1	95	5,548	92.3	49.5
Other	47	1,113	23.8	121	2,591	108.7	78.5
No One Major Type	18	406	22.9	Q	Q	Q	88.5
Predominant Roof Material							
Built-Up	1,036	21,170	20.4	2,083	2,011	98.4	80.7
Shingles (Not Wood)	1,325	10,195	7.7	823	621	80.7	78.6
Metal Surfacing	1,288	11,944	9.3	630	489	52.7	74.4
Synthetic or Rubber	511	14,730	28.8	1,649	3,228	112.0	79.3
Slate or Tile	263	2,462	9.4	207	789	84.2	68.6
Wooden Materials	122	887	7.3	68	562	77.0	70.2
Concrete	61	2,231	36.7	236	3,886	Q	120.6
Other	16	598	38.1	Q	Q	Q	Q
No One Major Type	25	565	22.7	40	1,589	69.9	59.0
Renovations in Buildings Constructed Before 1980 (more than one may apply)							
Any Type of Renovation Since 1980	1,018	17,844	17.5	1,766	1,734	99.0	86.2
Addition or Annex	256	6,551	25.6	733	2,860	111.9	109.9
Reduction In Floorspace	22	1,012	46.1	117	5,306	115.2	108.2
Cosmetic Improvements	741	13,119	17.7	1,317	1,778	100.4	82.9
Wall or Roof Replacement	370	8,070	21.8	777	2,100	96.3	76.8
Interior Wall Re-Configuration	411	8,518	20.7	911	2,218	107.0	81.4
HVAC Equipment Upgrade	442	10,768	24.4	1,156	2,619	107.4	83.5
Lighting Upgrade	455	10,275	22.6	1,085	2,388	105.6	87.2
Window Replacement	310	6,354	20.5	613	1,974	96.5	82.1
Plumbing System Upgrade	315	7,144	22.7	748	2,376	104.7	85.4
Insulation Upgrade	227	4,015	17.7	381	1,676	94.8	75.8
Other Renovation	19	523	27.3	50	2,587	94.9	104.1
No Renovations Since 1980	1,710	18,714	10.9	1,482	866	79.2	89.1
Building Newer than 1980	1,917	28,225	14.7	2,573	1,342	91.1	72.1

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

	All Buildings*			Sum of Major Fuel Consumption			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)
All Buildings*	4,645	64,783	13.9	5,820	1,253	89.8	79.9
Energy Sources (more than one may apply)							
Electricity	4,404	63,307	14.4	5,820	1,322	91.9	80.0
Natural Gas	2,391	43,468	18.2	4,492	1,878	103.3	86.5
Fuel Oil	451	15,157	33.6	1,760	3,906	116.1	89.7
District Heat	67	5,443	81.4	1,017	15,203	186.8	99.8
District Chilled Water	33	2,853	86.7	538	16,353	188.7	74.9
Propane	502	7,076	14.1	584	1,164	82.6	99.8
Other	132	1,401	10.6	139	1,050	99.2	73.8
Space-Heating Energy Sources (more than one may apply)							
Electricity	1,766	28,600	16.2	2,373	1,344	83.0	70.0
Natural Gas	2,165	36,959	17.1	3,682	1,700	99.6	89.9
Fuel Oil	360	5,988	16.6	591	1,641	98.6	109.7
District Heat	65	5,198	79.7	994	15,241	191.2	100.0
Propane	372	3,204	8.6	160	430	49.9	53.3
Other	113	842	7.4	61	541	72.6	70.7
Primary Space-Heating Energy Source							
Electricity	1,258	15,996	12.7	1,089	865	68.1	56.1
Natural Gas	1,999	32,970	16.5	3,280	1,641	99.5	89.2
Fuel Oil	282	3,818	13.5	294	1,044	77.1	110.3
District Heat	63	4,907	77.4	951	15,010	193.8	97.8
Propane	308	1,955	6.4	71	232	36.6	37.3
Other	72	382	5.3	19	270	50.6	64.3
Cooling Energy Sources (more than one may apply)							
Electricity	3,589	54,321	15.1	5,021	1,399	92.4	79.4
Natural Gas	17	1,018	58.9	159	9,202	156.3	118.6
District Chilled Water	33	2,853	86.7	538	16,353	188.7	74.9
Water-Heating Energy Sources (more than one may apply)							
Electricity	1,910	27,490	14.4	2,145	1,123	78.0	65.7
Natural Gas	1,445	28,820	19.9	3,206	2,218	111.2	89.7
Fuel Oil	94	1,880	19.9	206	2,186	109.7	101.2
District Heat	27	3,088	113.1	563	20,610	182.3	134.2
Propane	128	1,422	11.1	81	628	56.7	52.8
Cooking Energy Sources (more than one may apply)							
Electricity	410	13,161	32.1	1,579	3,851	120.0	98.5
Natural Gas	457	15,438	33.8	2,074	4,542	134.3	109.1
Propane	108	1,460	13.6	114	1,064	78.3	61.3
Energy End Uses (more than one may apply)							
Buildings with Space Heating	3,982	60,028	15.1	5,705	1,433	95.0	80.6
Buildings with Cooling	3,625	56,940	15.7	5,464	1,507	96.0	77.9
Buildings with Water Heating	3,472	56,478	16.3	5,498	1,583	97.4	79.4
Buildings with Cooking	801	22,237	27.8	2,712	3,386	122.0	99.6
Buildings with Manufacturing	119	3,138	26.5	254	2,144	81.1	88.3
Buildings with Electricity Generation	149	12,821	85.9	1,693	11,347	132.1	87.8

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

	All Buildings*			Sum of Major Fuel Consumption			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)
All Buildings*	4,645	64,783	13.9	5,820	1,253	89.8	79.9
Percent of Floorspace Heated							
Not Heated	663	4,756	7.2	115	173	24.2	56.7
1 to 50	523	6,850	13.1	299	571	43.6	72.2
51 to 99	498	8,107	16.3	746	1,500	92.1	77.6
100	2,962	45,071	15.2	4,660	1,573	103.4	81.7
Percent of Floorspace Cooled							
Not Cooled	1,020	7,843	7.7	356	349	45.4	134.1
1 to 50	985	16,598	16.8	1,026	1,042	61.8	92.5
51 to 99	629	13,211	21.0	1,413	2,246	106.9	85.6
100	2,011	27,132	13.5	3,026	1,504	111.5	71.1
Percent Lit When Open							
Zero	47	293	6.3	Q	Q	Q	Q
1 to 50	929	10,203	11.0	540	581	52.9	122.4
51 to 99	1,108	18,288	16.5	1,736	1,567	94.9	65.2
100	2,176	32,789	15.1	3,490	1,603	106.4	84.0
Building Never Open/ Electricity Not Used	386	3,210	8.3	46	120	14.4	415.9
Percent Lit When Closed							
Zero	1,964	17,385	8.9	1,132	577	65.1	62.6
1 to 50	1,882	30,948	16.4	2,626	1,396	84.9	70.3
51 to 100	136	2,093	15.4	235	1,725	112.3	84.7
Building Never Closed/ Electricity Not Used	664	14,357	21.6	1,827	2,752	127.2	125.2
Heating Equipment (more than one may apply)							
Heat Pumps	476	8,814	18.5	805	1,692	91.3	74.8
Packaged Heat Pumps	278	5,442	19.6	523	1,880	96.0	70.0
Split-System Heat Pumps	166	2,581	15.5	198	1,191	76.8	71.6
Individual Room Heat Pumps	58	2,691	46.5	255	4,405	94.7	85.5
Furnaces	1,864	19,615	10.5	1,493	801	76.1	80.2
Individual Space Heaters	819	12,545	15.3	1,024	1,250	81.6	79.5
District Heat	65	5,166	79.7	986	15,202	190.8	100.2
Boilers	579	20,423	35.3	2,244	3,877	109.9	95.6
Packaged Heating Units	953	18,021	18.9	1,729	1,814	95.9	76.5
Other	205	3,262	15.9	231	1,127	70.7	66.4
Cooling Equipment (more than one may apply)							
Residential-Type Central Air Conditioners	1,006	11,035	11.0	924	918	83.7	80.8
Heat Pumps	492	9,041	18.4	837	1,700	92.6	76.4
Packaged Heat Pumps	288	5,426	18.9	529	1,838	97.4	70.6
Split-System Heat Pumps	174	2,606	15.0	204	1,176	78.4	73.9
Individual Room Heat Pumps	58	2,940	50.7	278	4,788	94.4	85.1
Individual Air Conditioners	742	12,558	16.9	1,080	1,455	86.0	94.1
District Chilled Water	33	2,853	86.7	538	16,353	188.7	74.9
Central Chillers	111	11,636	105.1	1,531	13,824	131.6	87.3
Packaged Air Conditioning Units	1,613	29,969	18.6	2,862	1,775	95.5	79.9
Swamp Coolers	122	1,561	12.8	158	1,296	101.1	95.3
Other	40	1,232	31.1	142	3,583	115.1	84.3

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

	All Buildings*			Sum of Major Fuel Consumption			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)
All Buildings*	4,645	64,783	13.9	5,820	1,253	89.8	79.9
Main Equipment Replaced Since 1990 (more than one may apply)							
Heating	1,197	16,403	13.7	1,367	1,143	83.4	80.5
Cooling	1,356	20,995	15.5	1,949	1,437	92.8	79.4
Water Heating Equipment							
Centralized System	2,513	34,671	13.8	3,432	1,366	99.0	85.9
Distributed System	785	11,540	14.7	835	1,064	72.4	70.5
Combination of Centralized and Distributed System	175	10,267	58.8	1,231	7,051	119.9	70.6
Lighting Equipment Types (more than one may apply)							
Incandescent	2,184	38,528	17.6	3,916	1,793	101.6	80.2
Standard Fluorescent	3,943	59,688	15.1	5,644	1,431	94.6	79.6
Compact Fluorescent	941	27,571	29.3	3,208	3,409	116.4	87.7
High Intensity Discharge	455	20,643	45.4	2,141	4,706	103.7	82.1
Halogen	565	17,703	31.3	1,982	3,505	111.9	86.6
Other	8	269	31.7	Q	Q	Q	90.9
Refrigeration Equipment (more than one may apply)[a]							
Any Refrigeration	3,176	52,974	16.7	5,213	1,641	98.4	79.5
Commercial Refrigeration	1,007	26,768	26.6	3,336	3,314	124.6	103.3
Walk-In Units	666	20,254	30.4	2,766	4,152	136.6	109.4
Cases or Cabinets	825	20,424	24.8	2,703	3,278	132.3	106.3
Residential-Type Units	2,370	38,884	16.4	3,466	1,463	89.1	72.5
Vending Machines	996	35,335	35.5	3,721	3,735	105.3	81.1
No Refrigeration	1,469	11,809	8.0	607	413	51.4	83.8
Office Equipment (more than one may apply)							
Computers	3,081	55,627	18.1	5,376	1,745	96.6	77.9
With Flat Screen Monitors	877	26,417	30.1	2,966	3,383	112.3	70.3
Dedicated Servers	1,175	36,338	30.9	3,760	3,201	103.5	71.6
Laser Printers	1,970	33,012	16.8	3,009	1,528	91.2	75.1
Inkjet Printers	1,420	32,210	22.7	3,302	2,325	102.5	75.2
FAX Machines	2,715	52,373	19.3	5,092	1,876	97.2	76.0
Photocopiers	1,939	46,257	23.9	4,466	2,303	96.5	72.8
Number of Computers							
None	1,565	9,156	5.9	444	284	48.5	118.2
1 to 4	1,670	12,395	7.4	1,015	608	81.9	116.9
5 to 9	559	7,179	12.8	546	976	76.0	90.8
10 to 19	370	6,610	17.9	515	1,393	77.9	75.2
20 to 49	255	7,414	29.1	707	2,777	95.3	75.3
50 to 99	110	5,376	48.9	513	4,662	95.4	73.9
100 to 249	79	6,690	84.3	714	8,992	106.7	80.5
250 or More	38	9,963	264.3	1,366	36,244	137.1	61.2
Number of Dedicated Servers							
None	3,471	28,445	8.2	2,060	594	72.4	101.5
1 to 4	1,060	24,116	22.8	2,234	2,108	92.6	83.6
5 to 9	58	3,864	67.0	405	7,027	104.9	67.0
10 to 19	30	3,027	100.1	432	14,284	142.7	50.2
20 to 49	17	2,583	150.0	307	17,825	118.9	64.1
50 or More	10	2,748	276.6	382	38,458	139.0	60.2

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

	All Buildings*			Sum of Major Fuel Consumption			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)
All Buildings*	4,645	64,783	13.9	5,820	1,253	89.8	79.9
Number of Photocopiers							
None	2,706	18,526	6.8	1,355	501	73.1	118.1
One	1,250	15,475	12.4	1,130	904	73.0	90.0
2 to 4	549	15,082	27.5	1,334	2,430	88.5	77.2
5 to 9	85	5,515	64.7	612	7,173	110.9	57.3
10 or More	54	10,185	187.2	1,389	25,537	136.4	66.7
Energy-Related Space Functions (more than one may apply)							
Commercial Food Preparation	799	22,223	27.8	2,711	3,392	122.0	99.5
Activities with Large Amounts of Hot Water	567	19,482	34.4	2,465	4,349	126.6	113.3
Separate Computer Area	553	26,873	48.6	2,895	5,236	107.7	76.5
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	466	19,597	42.1	2,380	5,112	121.4	77.4
Economizer Cycle	508	21,108	41.5	2,589	5,092	122.6	80.1
HVAC Maintenance	2,581	51,163	19.8	5,170	2,003	101.1	81.3
Energy Management and Control System (EMCS)	252	15,630	62.0	1,782	7,068	114.0	82.4
Window and Interior Lighting Features (more than one may apply)							
Multipaned Windows	2,201	38,910	17.7	3,929	1,785	101.0	89.3
Tinted Window Glass	1,323	29,887	22.6	3,098	2,341	103.6	76.6
Reflective Window Glass	308	8,544	27.8	927	3,011	108.5	75.3
External Overhangs or Awnings	1,233	17,242	14.0	1,737	1,408	100.7	77.6
Skylights or Atriums	331	12,546	37.9	1,307	3,950	104.2	92.3
Daylighting Sensors	74	2,868	38.7	377	5,084	131.4	99.8
Specular Reflectors	928	26,118	28.2	2,829	3,049	108.3	85.6
Electronic Ballasts	2,577	46,882	18.2	4,746	1,842	101.2	80.4
Energy Management and Control System (EMCS) For Lighting	60	4,781	80.1	538	9,025	112.6	75.9
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]							
Heating	2,878	42,722	14.8	3,740	1,300	87.6	75.9
Cooling	2,761	43,205	15.6	3,844	1,392	89.0	71.2
Lighting	3,685	46,987	12.7	3,818	1,036	81.3	67.7
Office Equipment	1,504	19,397	12.9	1,465	975	75.5	72.7

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

	All Buildings*			Sum of Major Fuel Consumption			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)
All Buildings*	4,645	64,783	13.9	5,820	1,253	89.8	79.9

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	All Buildings*			Sum of Major Fuel Expenditures			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)
All Buildings*	4,645	64,783	13.9	92,577	19.9	1.43	15.91
Building Floorspace (Square Feet)							
1,001 to 5,000	2,552	6,789	2.7	12,812	5.0	1.89	19.08
5,001 to 10,000	889	6,585	7.4	9,398	10.6	1.43	18.22
10,001 to 25,000	738	11,535	15.6	13,140	17.8	1.14	16.93
25,001 to 50,000	241	8,668	35.9	10,392	43.1	1.20	15.44
50,001 to 100,000	129	9,057	70.4	11,897	92.5	1.31	15.68
100,001 to 200,000	65	9,064	138.8	13,391	205.1	1.48	14.34
200,001 to 500,000	25	7,176	289.0	10,347	416.7	1.44	14.28
Over 500,000	7	5,908	896.1	11,201	1698.8	1.90	14.62
Principal Building Activity							
Education	386	9,874	25.6	12,008	31.1	1.22	14.64
Food Sales	226	1,255	5.6	4,990	22.1	3.98	19.91
Food Service	297	1,654	5.6	6,865	23.1	4.15	16.07
Health Care	129	3,163	24.6	7,440	57.8	2.35	12.53
Inpatient	8	1,905	241.4	5,329	675.4	2.80	11.23
Outpatient	121	1,258	10.4	2,111	17.5	1.68	17.74
Lodging	142	5,096	35.8	7,445	52.3	1.46	14.61
Retail (Other Than Mall)	443	4,317	9.7	5,980	13.5	1.39	18.75
Office	824	12,208	14.8	20,841	25.3	1.71	18.39
Public Assembly	277	3,939	14.2	5,790	20.9	1.47	15.65
Public Order and Safety	71	1,090	15.5	1,917	27.2	1.76	15.18
Religious Worship	370	3,754	10.1	2,457	6.6	0.65	15.06
Service	622	4,050	6.5	4,779	7.7	1.18	15.33
Warehouse and Storage	597	10,078	16.9	6,894	11.5	0.68	15.12
Other	79	1,738	21.9	4,420	55.7	2.54	15.47
Vacant	182	2,567	14.1	751	4.1	0.29	14.02
Year Constructed							
Before 1920	330	3,769	11.4	4,131	12.5	1.10	13.66
1920 to 1945	527	6,871	13.0	8,670	16.4	1.26	13.98
1946 to 1959	562	7,045	12.5	8,540	15.2	1.21	15.10
1960 to 1969	579	8,101	14.0	11,378	19.7	1.40	15.44
1970 to 1979	731	10,772	14.7	16,129	22.1	1.50	15.77
1980 to 1989	707	10,332	14.6	17,346	24.5	1.68	16.78
1990 to 1999	876	12,360	14.1	18,761	21.4	1.52	17.09
2000 to 2003	334	5,533	16.6	7,623	22.8	1.38	17.28
Census Region and Division							
Northeast	726	12,905	17.8	21,344	29.4	1.65	16.79
New England	233	2,964	12.7	4,851	20.9	1.64	16.53
Middle Atlantic	493	9,941	20.1	16,493	33.4	1.66	16.87
Midwest	1,266	17,080	13.5	21,521	17.0	1.26	12.74
East North Central	696	11,595	16.7	15,908	22.9	1.37	12.69
West North Central	571	5,485	9.6	5,613	9.8	1.02	12.87
South	1,775	23,489	13.2	31,595	17.8	1.35	16.22
South Atlantic	874	12,258	14.0	17,563	20.1	1.43	16.51
East South Central	348	3,393	9.8	4,569	13.1	1.35	14.78
West South Central	553	7,837	14.2	9,463	17.1	1.21	16.45
West	878	11,310	12.9	18,118	20.6	1.60	19.88
Mountain	299	3,675	12.3	5,629	18.9	1.53	14.76
Pacific	580	7,635	13.2	12,488	21.5	1.64	23.58

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

	All Buildings*			Sum of Major Fuel Expenditures			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)
All Buildings*	4,645	64,783	13.9	92,577	19.9	1.43	15.91
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	855	10,622	12.4	13,709	16.0	1.29	13.85
5,500-7,000 HDD	1,173	17,335	14.8	24,455	20.9	1.41	13.89
4,000-5,499 HDD	673	11,504	17.1	18,507	27.5	1.61	16.33
Fewer than 4,000 HDD	1,276	15,739	12.3	22,372	17.5	1.42	18.45
2,000 CDD or More and --							
Fewer than 4,000 HDD	669	9,584	14.3	13,534	20.2	1.41	18.70
Number of Floors							
One	3,136	25,981	8.3	33,617	10.7	1.29	17.35
Two	1,031	16,270	15.8	20,932	20.3	1.29	15.97
Three	339	7,501	22.1	9,143	26.9	1.22	14.76
Four to Nine	128	10,085	78.7	18,968	148.0	1.88	14.20
Ten or More	12	4,947	420.0	9,917	842.1	2.00	16.08
Elevators and Escalators (more than one may apply)							
Any Elevators	309	24,617	79.7	42,252	136.8	1.72	14.95
Number of Elevators							
One	208	8,221	39.5	10,967	52.7	1.33	14.99
Two to Five	88	10,129	115.1	17,217	195.7	1.70	14.88
Six or More	13	6,268	491.5	14,068	1103.1	2.24	15.02
Any Escalators	6	2,350	388.7	4,861	804.2	2.07	17.24
Number of Workers (main shift)							
Fewer than 5	2,653	15,492	5.8	13,615	5.1	0.88	16.66
5 to 9	778	6,166	7.9	8,265	10.6	1.34	17.64
10 to 19	563	7,803	13.9	9,936	17.7	1.27	16.72
20 to 49	398	10,989	27.6	16,406	41.2	1.49	15.62
50 to 99	147	7,934	53.8	11,165	75.7	1.41	15.34
100 to 249	77	6,871	89.7	12,970	169.3	1.89	15.48
250 or More	30	9,528	320.4	20,222	680.0	2.12	15.26
Weekly Operating Hours							
Fewer than 40	1,002	6,863	6.9	3,695	3.7	0.54	16.24
40 to 48	1,117	11,622	10.4	12,749	11.4	1.10	16.49
49 to 60	1,062	15,723	14.8	19,461	18.3	1.24	16.50
61 to 84	591	10,334	17.5	15,040	25.4	1.46	16.28
85 to 167	400	7,092	17.7	14,287	35.8	2.01	16.06
Open Continuously	475	13,149	27.7	27,346	57.6	2.08	14.97
Ownership and Occupancy							
Nongovernment Owned	4,011	49,421	12.3	69,675	17.4	1.41	16.58
Owner Occupied	1,841	23,591	12.8	33,551	18.2	1.42	16.29
Nonowner Occupied	2,029	23,914	11.8	35,713	17.6	1.49	16.89
Unoccupied	141	1,916	13.6	411	2.9	0.21	Q
Government Owned	635	15,363	24.2	22,902	36.1	1.49	14.16
Federal	46	1,956	42.9	3,964	86.8	2.03	13.08
State	164	3,808	23.2	7,090	43.2	1.86	13.81
Local	425	9,599	22.6	11,849	27.9	1.23	14.80
Vacancy Status							
Completely Vacant	157	2,161	13.8	516	3.3	0.24	13.88
Mostly Vacant	25	406	16.1	Q	Q	Q	Q
Partially Vacant	548	12,382	22.6	17,624	32.2	1.42	16.23
Not At All Vacant	3,915	49,834	12.7	74,203	19.0	1.49	15.85

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

	All Buildings*			Sum of Major Fuel Expenditures			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)
All Buildings*	4,645	64,783	13.9	92,577	19.9	1.43	15.91
Number of Establishments							
One	3,754	45,144	12.0	65,153	17.4	1.44	15.64
2 to 5	643	10,960	17.1	16,030	24.9	1.46	16.15
6 to 10	55	1,958	35.7	3,402	62.1	1.74	15.78
11 to 20	23	1,951	85.7	2,718	119.4	1.39	17.94
More than 20	14	2,609	181.1	4,759	330.4	1.82	18.53
Currently Unoccupied	157	2,161	13.8	516	3.3	0.24	13.88
Predominant Exterior Wall Material							
Brick, Stone or Stucco	2,044	32,817	16.1	48,399	23.7	1.47	15.19
Concrete (Block or Poured)	786	10,832	13.8	16,015	20.4	1.48	16.44
Concrete Panels	131	6,559	50.2	10,792	82.7	1.65	16.17
Siding or Shingles	779	4,120	5.3	5,071	6.5	1.23	18.34
Metal Panels	825	7,912	9.6	8,196	9.9	1.04	17.70
Window Glass	17	1,024	60.1	1,709	100.3	1.67	18.08
Other	47	1,113	23.8	1,801	38.6	1.62	14.88
No One Major Type	18	406	22.9	Q	Q	Q	Q
Predominant Roof Material							
Built-Up	1,036	21,170	20.4	33,145	32.0	1.57	15.91
Shingles (Not Wood)	1,325	10,195	7.7	13,564	10.2	1.33	16.49
Metal Surfacing	1,288	11,944	9.3	10,782	8.4	0.90	17.12
Synthetic or Rubber	511	14,730	28.8	24,825	48.6	1.69	15.05
Slate or Tile	263	2,462	9.4	3,794	14.4	1.54	18.30
Wooden Materials	122	887	7.3	1,140	9.4	1.28	16.68
Concrete	61	2,231	36.7	3,373	55.5	Q	14.28
Other	16	598	38.1	1,235	78.7	2.06	Q
No One Major Type	25	565	22.7	719	28.9	1.27	18.21
Renovations in Buildings Constructed Before 1980 (more than one may apply)							
Any Type of Renovation Since 1980	1,018	17,844	17.5	25,657	25.2	1.44	14.53
Addition or Annex	256	6,551	25.6	9,530	37.2	1.45	13.00
Reduction In Floorspace	22	1,012	46.1	1,710	77.8	1.69	14.67
Cosmetic Improvements	741	13,119	17.7	19,621	26.5	1.50	14.90
Wall or Roof Replacement	370	8,070	21.8	11,653	31.5	1.44	14.99
Interior Wall Re-Configuration	411	8,518	20.7	13,131	32.0	1.54	14.41
HVAC Equipment Upgrade	442	10,768	24.4	16,899	38.3	1.57	14.61
Lighting Upgrade	455	10,275	22.6	15,732	34.6	1.53	14.50
Window Replacement	310	6,354	20.5	9,102	29.3	1.43	14.85
Plumbing System Upgrade	315	7,144	22.7	10,965	34.8	1.53	14.66
Insulation Upgrade	227	4,015	17.7	5,868	25.8	1.46	15.41
Other Renovation	19	523	27.3	791	41.3	1.51	15.96
No Renovations Since 1980	1,710	18,714	10.9	23,191	13.6	1.24	15.65
Building Newer than 1980	1,917	28,225	14.7	43,729	22.8	1.55	17.00

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

	All Buildings*			Sum of Major Fuel Expenditures			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)
All Buildings*	4,645	64,783	13.9	92,577	19.9	1.43	15.91
Energy Sources (more than one may apply)							
Electricity	4,404	63,307	14.4	92,574	21.0	1.46	15.91
Natural Gas	2,391	43,468	18.2	67,462	28.2	1.55	15.02
Fuel Oil	451	15,157	33.6	25,905	57.5	1.71	14.72
District Heat	67	5,443	81.4	14,098	210.7	2.59	13.86
District Chilled Water	33	2,853	86.7	7,647	232.3	2.68	14.20
Propane	502	7,076	14.1	9,424	18.8	1.33	16.12
Other	132	1,401	10.6	2,032	15.4	1.45	14.63
Space-Heating Energy Sources (more than one may apply)							
Electricity	1,766	28,600	16.2	41,737	23.6	1.46	17.59
Natural Gas	2,165	36,959	17.1	54,959	25.4	1.49	14.93
Fuel Oil	360	5,988	16.6	7,485	20.8	1.25	12.67
District Heat	65	5,198	79.7	13,623	208.9	2.62	13.71
Propane	372	3,204	8.6	3,303	8.9	1.03	20.65
Other	113	842	7.4	956	8.5	1.14	15.65
Primary Space-Heating Energy Source							
Electricity	1,258	15,996	12.7	22,011	17.5	1.38	20.22
Natural Gas	1,999	32,970	16.5	48,198	24.1	1.46	14.69
Fuel Oil	282	3,818	13.5	3,963	14.1	1.04	13.47
District Heat	63	4,907	77.4	13,178	208.0	2.69	13.86
Propane	308	1,955	6.4	1,928	6.3	0.99	26.96
Other	72	382	5.3	338	4.7	0.88	17.47
Cooling Energy Sources (more than one may apply)							
Electricity	3,589	54,321	15.1	81,478	22.7	1.50	16.23
Natural Gas	17	1,018	58.9	2,005	116.0	1.97	12.60
District Chilled Water	33	2,853	86.7	7,647	232.3	2.68	14.20
Water-Heating Energy Sources (more than one may apply)							
Electricity	1,910	27,490	14.4	36,908	19.3	1.34	17.21
Natural Gas	1,445	28,820	19.9	47,610	32.9	1.65	14.85
Fuel Oil	94	1,880	19.9	2,700	28.6	1.44	13.10
District Heat	27	3,088	113.1	8,155	298.6	2.64	14.49
Propane	128	1,422	11.1	1,871	14.6	1.32	23.21
Cooking Energy Sources (more than one may apply)							
Electricity	410	13,161	32.1	23,623	57.6	1.79	14.96
Natural Gas	457	15,438	33.8	29,444	64.5	1.91	14.20
Propane	108	1,460	13.6	2,508	23.3	1.72	21.92
Energy End Uses (more than one may apply)							
Buildings with Space Heating	3,982	60,028	15.1	89,615	22.5	1.49	15.71
Buildings with Cooling	3,625	56,940	15.7	87,739	24.2	1.54	16.06
Buildings with Water Heating	3,472	56,478	16.3	87,218	25.1	1.54	15.86
Buildings with Cooking	801	22,237	27.8	40,266	50.3	1.81	14.84
Buildings with Manufacturing	119	3,138	26.5	3,950	33.3	1.26	15.53
Buildings with Electricity Generation	149	12,821	85.9	25,422	170.4	1.98	15.02

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

	All Buildings*			Sum of Major Fuel Expenditures			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)
All Buildings*	4,645	64,783	13.9	92,577	19.9	1.43	15.91
Percent of Floorspace Heated							
Not Heated	663	4,756	7.2	2,962	4.5	0.62	25.77
1 to 50	523	6,850	13.1	5,600	10.7	0.82	18.76
51 to 99	498	8,107	16.3	11,972	24.1	1.48	16.04
100	2,962	45,071	15.2	72,043	24.3	1.60	15.46
Percent of Floorspace Cooled							
Not Cooled	1,020	7,843	7.7	4,838	4.7	0.62	13.59
1 to 50	985	16,598	16.8	15,503	15.7	0.93	15.11
51 to 99	629	13,211	21.0	22,446	35.7	1.70	15.89
100	2,011	27,132	13.5	49,791	24.8	1.84	16.46
Percent Lit When Open							
Zero	47	293	6.3	Q	Q	Q	Q
1 to 50	929	10,203	11.0	8,599	9.3	0.84	15.92
51 to 99	1,108	18,288	16.5	28,253	25.5	1.54	16.28
100	2,176	32,789	15.1	54,958	25.3	1.68	15.75
Building Never Open/ Electricity Not Used	386	3,210	8.3	635	1.6	0.20	13.75
Percent Lit When Closed							
Zero	1,964	17,385	8.9	18,308	9.3	1.05	16.17
1 to 50	1,882	30,948	16.4	43,011	22.9	1.39	16.38
51 to 100	136	2,093	15.4	3,910	28.7	1.87	16.63
Building Never Closed/ Electricity Not Used	664	14,357	21.6	27,349	41.2	1.90	14.97
Heating Equipment (more than one may apply)							
Heat Pumps	476	8,814	18.5	14,249	30.0	1.62	17.71
Packaged Heat Pumps	278	5,442	19.6	9,330	33.6	1.71	17.85
Split-System Heat Pumps	166	2,581	15.5	3,696	22.2	1.43	18.65
Individual Room Heat Pumps	58	2,691	46.5	4,199	72.6	1.56	16.48
Furnaces	1,864	19,615	10.5	23,489	12.6	1.20	15.73
Individual Space Heaters	819	12,545	15.3	15,964	19.5	1.27	15.59
District Heat	65	5,166	79.7	13,505	208.3	2.61	13.70
Boilers	579	20,423	35.3	31,052	53.6	1.52	13.84
Packaged Heating Units	953	18,021	18.9	29,902	31.4	1.66	17.30
Other	205	3,262	15.9	3,988	19.5	1.22	17.29
Cooling Equipment (more than one may apply)							
Residential-Type Central Air Conditioners	1,006	11,035	11.0	14,441	14.4	1.31	15.63
Heat Pumps	492	9,041	18.4	14,738	29.9	1.63	17.61
Packaged Heat Pumps	288	5,426	18.9	9,356	32.5	1.72	17.70
Split-System Heat Pumps	174	2,606	15.0	3,776	21.7	1.45	18.48
Individual Room Heat Pumps	58	2,940	50.7	4,621	79.7	1.57	16.64
Individual Air Conditioners	742	12,558	16.9	16,175	21.8	1.29	14.98
District Chilled Water	33	2,853	86.7	7,647	232.3	2.68	14.20
Central Chillers	111	11,636	105.1	22,448	202.7	1.93	14.66
Packaged Air Conditioning Units	1,613	29,969	18.6	46,331	28.7	1.55	16.19
Swamp Coolers	122	1,561	12.8	2,350	19.3	1.51	14.89
Other	40	1,232	31.1	2,096	53.0	1.70	14.79

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

	All Buildings*			Sum of Major Fuel Expenditures			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)
All Buildings*	4,645	64,783	13.9	92,577	19.9	1.43	15.91
Main Equipment Replaced Since 1990 (more than one may apply)							
Heating	1,197	16,403	13.7	21,542	18.0	1.31	15.75
Cooling	1,356	20,995	15.5	30,387	22.4	1.45	15.59
Water Heating Equipment							
Centralized System	2,513	34,671	13.8	54,768	21.8	1.58	15.96
Distributed System	785	11,540	14.7	14,394	18.3	1.25	17.23
Combination of Centralized and Distributed System	175	10,267	58.8	18,056	103.4	1.76	14.67
Lighting Equipment Types (more than one may apply)							
Incandescent	2,184	38,528	17.6	60,359	27.6	1.57	15.41
Standard Fluorescent	3,943	59,688	15.1	89,627	22.7	1.50	15.88
Compact Fluorescent	941	27,571	29.3	49,570	52.7	1.80	15.45
High Intensity Discharge	455	20,643	45.4	31,999	70.3	1.55	14.94
Halogen	565	17,703	31.3	30,218	53.4	1.71	15.25
Other	8	269	31.7	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)[a]							
Any Refrigeration	3,176	52,974	16.7	82,557	26.0	1.56	15.84
Commercial Refrigeration	1,007	26,768	26.6	50,937	50.6	1.90	15.27
Walk-In Units	666	20,254	30.4	41,811	62.8	2.06	15.12
Cases or Cabinets	825	20,424	24.8	41,463	50.3	2.03	15.34
Residential-Type Units	2,370	38,884	16.4	54,108	22.8	1.39	15.61
Vending Machines	996	35,335	35.5	56,290	56.5	1.59	15.13
No Refrigeration	1,469	11,809	8.0	10,020	6.8	0.85	16.50
Office Equipment (more than one may apply)							
Computers	3,081	55,627	18.1	85,407	27.7	1.54	15.89
With Flat Screen Monitors	877	26,417	30.1	46,704	53.3	1.77	15.75
Dedicated Servers	1,175	36,338	30.9	59,377	50.6	1.63	15.79
Laser Printers	1,970	33,012	16.8	47,880	24.3	1.45	15.91
Inkjet Printers	1,420	32,210	22.7	52,520	37.0	1.63	15.90
FAX Machines	2,715	52,373	19.3	80,902	29.8	1.54	15.89
Photocopiers	1,939	46,257	23.9	70,079	36.1	1.52	15.69
Number of Computers							
None	1,565	9,156	5.9	7,170	4.6	0.78	16.13
1 to 4	1,670	12,395	7.4	17,257	10.3	1.39	17.00
5 to 9	559	7,179	12.8	8,649	15.5	1.20	15.85
10 to 19	370	6,610	17.9	8,588	23.2	1.30	16.68
20 to 49	255	7,414	29.1	11,778	46.3	1.59	16.66
50 to 99	110	5,376	48.9	7,888	71.7	1.47	15.39
100 to 249	79	6,690	84.3	10,790	135.9	1.61	15.12
250 or More	38	9,963	264.3	20,456	542.6	2.05	14.97
Number of Dedicated Servers							
None	3,471	28,445	8.2	33,201	9.6	1.17	16.12
1 to 4	1,060	24,116	22.8	34,991	33.0	1.45	15.66
5 to 9	58	3,864	67.0	6,784	117.6	1.76	16.74
10 to 19	30	3,027	100.1	6,267	207.2	2.07	14.50
20 to 49	17	2,583	150.0	4,740	275.2	1.84	15.44
50 or More	10	2,748	276.6	6,594	663.9	2.40	17.26

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

	All Buildings*			Sum of Major Fuel Expenditures			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)
All Buildings*	4,645	64,783	13.9	92,577	19.9	1.43	15.91
Number of Photocopiers							
None	2,706	18,526	6.8	22,498	8.3	1.21	16.61
One	1,250	15,475	12.4	18,436	14.7	1.19	16.32
2 to 4	549	15,082	27.5	20,980	38.2	1.39	15.72
5 to 9	85	5,515	64.7	9,441	110.7	1.71	15.43
10 or More	54	10,185	187.2	21,223	390.1	2.08	15.27
Energy-Related Space Functions (more than one may apply)							
Commercial Food Preparation	799	22,223	27.8	40,252	50.4	1.81	14.85
Activities with Large Amounts of Hot Water	567	19,482	34.4	34,904	61.6	1.79	14.16
Separate Computer Area	553	26,873	48.6	44,552	80.6	1.66	15.39
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	466	19,597	42.1	36,254	77.9	1.85	15.23
Economizer Cycle	508	21,108	41.5	39,593	77.9	1.88	15.29
HVAC Maintenance	2,581	51,163	19.8	81,328	31.5	1.59	15.73
Energy Management and Control System (EMCS)	252	15,630	62.0	27,646	109.6	1.77	15.51
Window and Interior Lighting Features (more than one may apply)							
Multipaned Windows	2,201	38,910	17.7	59,356	27.0	1.53	15.11
Tinted Window Glass	1,323	29,887	22.6	49,568	37.5	1.66	16.00
Reflective Window Glass	308	8,544	27.8	14,414	46.8	1.69	15.55
External Overhangs or Awnings	1,233	17,242	14.0	28,248	22.9	1.64	16.27
Skylights or Atriums	331	12,546	37.9	19,284	58.3	1.54	14.76
Daylighting Sensors	74	2,868	38.7	6,261	84.5	2.18	16.62
Specular Reflectors	928	26,118	28.2	43,466	46.9	1.66	15.37
Electronic Ballasts	2,577	46,882	18.2	74,873	29.1	1.60	15.78
Energy Management and Control System (EMCS) For Lighting	60	4,781	80.1	8,967	150.3	1.88	16.65
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]							
Heating	2,878	42,722	14.8	60,293	20.9	1.41	16.12
Cooling	2,761	43,205	15.6	62,872	22.8	1.46	16.36
Lighting	3,685	46,987	12.7	62,313	16.9	1.33	16.32
Office Equipment	1,504	19,397	12.9	23,915	15.9	1.23	16.32

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

	All Buildings*			Sum of Major Fuel Expenditures			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)
All Buildings*	4,645	64,783	13.9	92,577	19.9	1.43	15.91

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6
Building Floorspace (Square Feet)												
1,001 to 5,000	118	206	240	108	1,025	1,895	2,533	1,336	115.1	108.5	94.9	80.6
5,001 to 10,000	102	117	185	112	1,123	1,565	2,658	1,239	90.7	74.7	69.5	90.8
10,001 to 25,000	148	228	250	150	1,972	3,098	4,378	2,087	75.3	73.6	57.2	71.7
25,001 to 50,000	106	247	205	114	1,292	2,567	3,168	1,643	82.4	96.3	64.8	69.4
50,001 to 100,000	203	212	255	89	2,040	2,260	3,435	1,322	99.4	93.6	74.3	67.6
100,001 to 200,000	209	252	375	97	2,117	2,296	3,475	1,177	98.8	109.8	107.9	82.7
200,001 to 500,000	189	244	191	100	1,781	2,196	1,914	1,286	106.3	111.1	99.9	78.1
Over 500,000	Q	184	246	140	1,556	1,203	1,928	1,221	Q	153.2	127.8	115.0
Principal Building Activity												
Education	171	219	301	129	1,683	2,541	3,983	1,667	101.6	86.3	75.5	77.6
Food Sales	Q	70	91	Q	238	320	487	Q	Q	219.1	187.7	Q
Food Service	Q	99	217	65	172	453	764	265	Q	218.8	283.4	243.8
Health Care	114	164	217	99	535	798	1,277	553	212.2	205.6	169.8	179.6
Inpatient	Q	119	190	67	358	438	838	270	Q	272.2	226.7	246.8
Outpatient	Q	45	27	33	177	359	438	283	Q	124.4	60.9	115.3
Lodging	108	125	164	113	1,171	1,144	1,694	1,087	Q	109.0	96.9	103.7
Retail (Other Than Mall)	41	90	127	61	630	880	1,844	963	65.0	102.7	68.7	63.2
Office	305	325	329	175	3,012	2,989	3,782	2,425	101.2	108.8	87.0	72.1
Public Assembly	93	103	109	64	1,048	1,012	1,174	706	Q	101.7	93.2	91.2
Public Order and Safety	Q	Q	Q	Q	362	221	373	Q	Q	Q	Q	Q
Religious Worship	33	59	57	14	627	1,115	1,498	515	52.1	52.8	38.3	27.6
Service	59	110	90	53	740	1,289	1,358	664	79.8	85.0	66.3	80.0
Warehouse and Storage	63	225	106	61	1,523	3,017	3,966	1,572	41.6	74.7	26.7	39.0
Other	Q	Q	Q	Q	649	316	Q	186	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	517	984	701	Q	Q	Q	Q	Q
Year Constructed												
Before 1920	114	123	41	Q	1,406	1,552	516	295	81.4	79.4	79.5	Q
1920 to 1945	221	262	79	59	2,504	2,099	1,348	920	88.2	124.6	58.3	64.1
1946 to 1959	189	165	138	74	2,094	2,027	1,795	1,128	90.5	81.2	76.8	65.2
1960 to 1969	211	205	201	120	1,737	2,229	2,538	1,597	121.4	91.8	79.2	75.4
1970 to 1979	191	322	320	190	1,723	3,237	3,726	2,086	111.0	99.5	85.8	91.1
1980 to 1989	146	221	449	218	1,374	1,949	4,768	2,241	106.2	113.3	94.2	97.4
1990 to 1999	118	286	524	170	1,370	2,746	6,241	2,004	85.9	104.0	84.0	84.9
2000 to 2003	Q	107	197	56	698	1,240	2,557	1,038	Q	86.3	77.1	54.2
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	197	539	N	254	2,416	5,615	N	2,591	81.6	96.0	N	98.0
5,500-7,000 HDD	525	1,038	N	197	5,398	9,867	N	2,070	97.3	105.2	N	95.4
4,000-5,499 HDD	549	113	407	Q	5,092	1,597	4,122	693	107.8	70.5	98.7	94.0
Fewer than 4,000 HDD	N	N	884	329	N	N	10,338	5,401	N	N	85.5	60.9
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	658	66	N	N	9,029	555	N	N	72.8	118.8
Number of Floors												
One	271	565	736	365	3,151	6,104	11,757	4,969	86.0	92.5	62.6	73.4
Two	254	429	401	227	3,029	5,177	4,946	3,118	83.8	82.9	81.1	72.7
Three	156	236	164	64	2,083	2,584	1,938	896	74.9	91.4	84.4	71.0
Four to Nine	368	380	435	153	3,003	2,660	3,094	1,328	122.6	142.9	140.6	115.2
Ten or More	222	79	212	Q	1,640	555	1,754	999	135.5	142.6	121.1	103.1

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

	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6
Elevators and Escalators (more than one may apply)												
Any Elevators	723	793	938	372	6,137	6,677	7,949	3,855	117.8	118.8	118.0	96.5
Number of Elevators												
One	167	289	200	77	1,585	3,084	2,475	1,077	105.1	93.5	80.7	71.3
Two to Five	302	334	393	128	2,971	2,704	3,094	1,360	101.7	123.5	127.1	94.3
Six or More	254	171	345	167	1,581	889	2,380	1,418	160.8	192.0	144.9	117.8
Any Escalators	Q	Q	130	Q	541	Q	1,002	Q	Q	Q	129.4	Q
Number of Workers (main shift)												
Fewer than 5	153	341	211	113	2,376	4,958	5,670	2,489	64.3	68.8	37.1	45.3
5 to 9	89	131	169	80	1,085	1,463	2,595	1,023	81.7	89.4	65.2	78.1
10 to 19	129	182	199	84	1,872	2,081	2,741	1,109	68.9	87.5	72.7	75.8
20 to 49	208	310	366	167	2,314	2,856	3,883	1,935	89.7	108.5	94.2	86.1
50 to 99	165	231	218	113	1,598	2,311	2,654	1,370	103.4	100.0	82.3	82.5
100 to 249	179	205	332	121	1,331	1,609	2,534	1,397	134.6	127.3	131.2	86.8
250 or More	349	290	453	234	2,329	1,800	3,413	1,986	149.6	161.0	132.7	117.6
Weekly Operating Hours												
Fewer than 40	35	83	68	41	923	2,300	2,544	1,096	37.8	36.2	26.8	37.7
40 to 48	161	239	257	117	2,111	2,783	4,567	2,161	76.3	85.8	56.2	54.0
49 to 60	221	447	347	163	3,098	4,614	5,556	2,455	71.4	97.0	62.5	66.5
61 to 84	195	251	329	150	2,048	2,583	3,754	1,950	95.0	97.2	87.5	76.8
85 to 167	161	286	320	122	1,317	2,008	2,459	1,308	122.5	142.7	130.1	93.1
Open Continuously	498	383	627	318	3,407	2,793	4,608	2,340	146.2	137.1	136.1	136.0
Ownership and Occupancy												
Nongovernment Owned	993	1,143	1,408	659	10,389	12,470	17,826	8,736	95.6	91.7	79.0	75.5
Owner Occupied	581	588	627	265	5,904	6,171	7,869	3,648	98.3	95.3	79.6	72.7
Nonowner Occupied	408	541	774	392	4,204	5,539	9,358	4,813	96.9	97.7	82.7	81.4
Unoccupied	Q	Q	Q	Q	Q	760	600	Q	Q	Q	Q	Q
Government Owned	278	547	541	252	2,517	4,610	5,662	2,574	110.4	118.6	95.5	97.8
Federal	Q	Q	66	Q	Q	Q	521	Q	Q	Q	126.9	Q
State	Q	119	219	88	599	764	1,718	727	Q	156.1	127.7	121.3
Local	174	251	255	120	1,706	2,925	3,423	1,545	101.7	85.9	74.6	78.0
Vacancy Status												
Completely Vacant	Q	Q	Q	Q	Q	892	652	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	297	322	302	164	3,117	3,119	4,061	2,085	95.3	103.3	74.4	78.9
Not At All Vacant	962	1,340	1,639	741	9,271	12,976	18,726	8,860	103.7	103.3	87.5	83.6
Number of Establishments												
One	841	1,262	1,374	689	8,061	12,359	16,947	7,776	104.4	102.1	81.1	88.6
2 to 5	245	291	324	133	2,517	2,803	3,740	1,900	97.2	103.8	86.6	70.0
6 to 10	58	56	76	25	571	510	550	327	101.9	110.1	138.2	76.9
11 to 20	Q	Q	62	Q	722	301	589	340	Q	Q	104.7	Q
More than 20	Q	Q	105	Q	696	Q	1,011	688	Q	Q	104.2	Q
Currently Unoccupied	Q	Q	Q	Q	Q	892	652	Q	Q	Q	Q	Q

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

	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6
Predominant Exterior Wall Material												
Brick, Stone or Stucco	770	1,005	1,009	403	7,248	9,248	11,574	4,747	106.2	108.7	87.2	84.8
Concrete (Block or Poured)	187	288	343	156	2,184	2,887	3,985	1,777	85.4	99.9	86.0	88.0
Concrete Panels	Q	150	288	153	599	1,230	2,758	1,972	Q	121.6	104.6	77.7
Siding or Shingles	76	71	73	57	1,193	1,183	1,045	698	63.4	60.0	69.9	81.3
Metal Panels	104	95	165	99	1,054	1,880	3,426	1,552	98.7	50.5	48.2	63.7
Window Glass	Q	Q	Q	Q	Q	Q	280	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	303	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material												
Built-Up	414	586	707	378	4,068	5,262	7,430	4,411	101.7	111.3	95.1	85.6
Shingles (Not Wood)	207	258	236	122	2,022	3,199	3,325	1,649	102.4	80.7	70.9	73.7
Metal Surfacing	58	161	290	121	1,027	2,663	6,309	1,946	56.1	60.3	46.0	62.3
Synthetic or Rubber	468	482	514	185	4,116	4,443	4,298	1,873	113.7	108.5	119.6	98.7
Slate or Tile	Q	30	79	47	480	306	1,056	620	Q	98.3	74.9	75.4
Wooden Materials	Q	Q	Q	Q	Q	Q	301	244	Q	Q	Q	Q
Concrete	Q	Q	Q	Q	Q	Q	426	400	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)												
Any Type of Renovation Since 1980	537	566	416	248	5,104	5,437	4,462	2,841	105.2	104.0	93.2	87.3
Addition or Annex	187	241	195	110	1,797	1,970	1,804	979	104.0	122.4	108.1	112.1
Reduction In Floorspace	Q	Q	Q	Q	404	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	419	426	285	188	3,952	3,879	3,105	2,183	106.1	109.8	91.7	85.9
Wall or Roof Replacement	260	230	171	115	2,676	2,238	1,863	1,294	97.2	103.0	92.0	89.2
Interior Wall Re-Configuration	265	294	201	151	2,489	2,586	1,936	1,507	106.5	113.9	103.7	100.0
HVAC Equipment Upgrade	338	369	278	172	3,027	3,332	2,584	1,825	111.7	110.8	107.4	94.0
Lighting Upgrade	365	337	215	168	3,350	3,059	2,092	1,775	109.0	110.2	102.7	94.8
Window Replacement	271	184	82	76	2,750	1,847	916	842	98.6	99.5	89.1	90.8
Plumbing System Upgrade	261	215	148	124	2,511	1,898	1,366	1,369	103.8	113.3	108.6	90.8
Insulation Upgrade	138	115	84	43	1,370	1,212	857	576	101.0	95.2	97.6	75.2
Other Renovation	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	390	511	362	219	4,360	5,708	5,462	3,185	89.4	89.5	66.3	68.7
Building Newer than 1980	344	613	1,170	445	3,441	5,935	13,565	5,283	100.0	103.4	86.3	84.1
Energy Sources (more than one may apply)												
Electricity	1,271	1,689	1,948	911	12,809	16,701	22,766	11,030	99.2	101.2	85.6	82.6
Natural Gas	997	1,379	1,389	726	9,181	13,163	13,311	7,813	108.6	104.8	104.4	92.9
Fuel Oil	636	389	488	247	6,080	2,832	4,122	2,123	104.6	137.4	118.4	116.2
District Heat	Q	336	324	Q	1,363	1,648	1,766	667	Q	204.2	183.7	Q
District Chilled Water	Q	Q	202	Q	620	596	1,150	487	Q	Q	175.3	Q
Propane	98	211	148	127	1,354	2,189	2,360	1,173	72.1	96.6	62.9	108.2
Other	Q	48	Q	Q	222	505	306	367	Q	94.3	Q	93.7

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

	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6
Space-Heating Energy Sources (more than one may apply)												
Electricity	444	547	1,013	369	4,405	6,223	13,058	4,914	100.8	88.0	77.6	75.1
Natural Gas	778	1,227	1,082	595	7,238	12,180	10,693	6,848	107.5	100.7	101.2	86.9
Fuel Oil	358	108	92	Q	3,927	916	897	247	91.2	117.8	102.5	Q
District Heat	Q	335	318	Q	1,260	1,640	1,683	615	Q	204.0	188.7	Q
Propane	Q	27	70	Q	743	806	1,195	459	Q	33.7	58.7	80.4
Other	Q	Q	Q	Q	Q	272	Q	Q	Q	Q	Q	Q
Primary Space-Heating Energy Source												
Electricity	99	205	596	189	1,253	2,545	9,084	3,114	78.8	80.5	65.6	60.7
Natural Gas	677	1,112	950	541	6,439	11,321	9,299	5,911	105.1	98.2	102.2	91.5
Fuel Oil	240	Q	Q	Q	3,250	229	232	Q	73.9	Q	Q	Q
District Heat	Q	318	304	Q	1,205	1,531	1,614	557	Q	207.8	188.6	Q
Propane	Q	Q	22	Q	Q	569	674	332	Q	31.7	33.0	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling Energy Sources (more than one may apply)												
Electricity	1,074	1,387	1,767	792	10,402	13,781	20,623	9,515	103.3	100.7	85.7	83.3
Natural Gas	Q	Q	Q	Q	353	Q	Q	Q	Q	Q	Q	Q
District Chilled Water	Q	Q	202	Q	620	596	1,150	487	Q	Q	175.3	Q
Water-Heating Energy Sources (more than one may apply)												
Electricity	404	564	909	268	5,125	6,477	11,882	4,007	78.9	87.1	76.5	66.8
Natural Gas	660	942	1,005	598	5,601	8,799	8,306	6,114	117.9	107.1	121.0	97.8
Fuel Oil	155	Q	Q	Q	1,542	Q	Q	Q	100.5	Q	Q	Q
District Heat	Q	Q	171	Q	929	749	956	454	Q	Q	179.2	Q
Propane	Q	Q	27	Q	261	390	537	Q	Q	42.9	50.5	Q
Cooking Energy Sources (more than one may apply)												
Electricity	315	449	598	217	2,495	3,784	4,900	1,982	126.2	118.8	122.1	109.3
Natural Gas	458	538	774	303	3,580	3,965	5,480	2,412	128.0	135.7	141.2	125.7
Propane	28	Q	33	Q	396	233	451	381	70.0	Q	74.3	Q
Energy End Uses (more than one may apply)												
Buildings with Space Heating	1,264	1,682	1,900	858	12,596	16,331	20,998	10,102	100.3	103.0	90.5	85.0
Buildings with Cooling	1,170	1,511	1,927	857	10,954	14,484	21,553	9,950	106.8	104.3	89.4	86.1
Buildings with Water Heating	1,213	1,537	1,869	879	11,789	14,928	19,913	9,848	102.9	103.0	93.8	89.3
Buildings with Cooking	618	731	967	397	5,016	5,850	7,881	3,489	123.1	124.9	122.7	113.8
Buildings with Manufacturing	84	72	42	56	1,013	798	642	685	83.1	90.3	65.4	81.9
Buildings with Electricity Generation	457	487	495	254	3,245	3,317	4,017	2,241	140.8	146.8	123.3	113.2
Percent of Floorspace Heated												
Not Heated	Q	Q	48	53	309	748	2,491	1,208	Q	Q	19.2	43.7
1 to 50	57	56	121	65	1,387	1,130	2,841	1,491	41.0	49.8	42.4	43.4
51 to 99	150	176	253	167	1,539	1,727	2,891	1,950	97.5	102.1	87.5	85.8
100	1,057	1,450	1,527	626	9,671	13,474	15,266	6,661	109.3	107.6	100.0	94.0

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

	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6
Percent of Floorspace Cooled												
Not Cooled	101	179	22	54	1,952	2,596	1,936	1,359	51.9	68.8	11.1	39.9
1 to 50	324	336	208	158	4,270	4,757	4,915	2,656	76.0	70.7	42.3	59.3
51 to 99	377	435	378	223	3,101	3,761	3,903	2,446	121.5	115.7	96.8	91.1
100	468	739	1,341	476	3,582	5,966	12,735	4,849	130.8	124.0	105.3	98.3
Percent Lit When Open												
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	157	178	133	72	2,750	2,753	3,189	1,512	57.3	64.8	41.6	47.4
51 to 99	426	514	514	282	3,599	5,299	6,134	3,256	118.2	97.0	83.9	86.6
100	678	970	1,288	553	6,051	7,781	12,874	6,083	112.1	124.7	100.1	90.9
Building Never Open/ Electricity Not Used	Q	Q	Q	Q	465	1,227	1,108	Q	Q	Q	Q	Q
Percent Lit When Closed												
Zero	189	434	333	176	2,807	5,174	6,292	3,112	67.5	83.9	52.9	56.5
1 to 50	542	790	894	399	6,279	8,293	11,027	5,349	86.3	95.3	81.1	74.7
51 to 100	Q	82	94	Q	Q	499	1,013	238	Q	164.3	92.4	Q
Building Never Closed/ Electricity Not Used	498	383	627	318	3,476	3,114	5,157	2,611	143.3	123.1	121.7	121.9
Heating Equipment (more than one may apply)												
Heat Pumps	177	96	395	136	1,213	1,058	4,942	1,600	146.1	91.0	79.9	85.2
Packaged Heat Pumps	Q	68	257	Q	744	738	2,928	1,031	Q	92.7	87.6	95.1
Split-System Heat Pumps	Q	Q	127	30	Q	Q	1,862	368	Q	Q	68.1	82.3
Individual Room Heat Pumps	Q	Q	101	34	544	358	1,250	538	Q	Q	80.5	62.5
Furnaces	275	596	397	225	3,596	7,229	5,715	3,075	76.6	82.4	69.4	73.1
Individual Space Heaters	263	339	276	146	2,786	4,169	3,608	1,981	94.2	81.4	76.5	73.6
District Heat	Q	330	318	Q	1,245	1,623	1,683	615	Q	203.5	188.7	Q
Boilers	661	656	559	368	6,228	6,141	4,393	3,662	106.1	106.8	127.4	100.5
Packaged Heating Units	365	401	722	241	2,912	3,666	8,130	3,312	125.2	109.4	88.8	72.7
Other	Q	74	85	33	579	820	1,381	481	Q	90.7	61.4	67.5
Cooling Equipment (more than one may apply)												
Residential-Type Central Air Conditioners	237	343	255	90	2,391	3,609	3,854	1,181	99.1	94.9	66.0	75.9
Heat Pumps	183	99	406	149	1,270	1,063	4,923	1,785	143.8	93.5	82.4	83.7
Packaged Heat Pumps	Q	72	255	Q	788	760	2,849	1,030	Q	95.1	89.4	94.0
Split-System Heat Pumps	Q	Q	132	32	Q	Q	1,868	404	Q	Q	70.5	79.6
Individual Room Heat Pumps	Q	Q	108	49	557	358	1,290	734	Q	Q	83.6	66.6
Individual Air Conditioners	352	320	272	136	3,687	3,488	3,635	1,749	95.4	91.8	74.7	77.8
District Chilled Water	Q	Q	202	Q	620	596	1,150	487	Q	Q	175.3	Q
Central Chillers	294	404	600	233	1,852	2,842	4,854	2,088	158.6	142.1	123.7	111.7
Packaged Air Conditioning Units	657	851	897	457	6,000	8,086	10,401	5,482	109.6	105.2	86.2	83.3
Swamp Coolers	Q	Q	Q	134	Q	Q	Q	1,342	Q	Q	Q	100.1
Other	Q	Q	Q	Q	Q	330	430	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)												
Heating	304	461	370	232	3,974	5,026	4,815	2,588	76.5	91.8	76.8	89.6
Cooling	535	597	522	295	5,453	5,752	6,415	3,374	98.1	103.8	81.3	87.5

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

	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6
Water Heating Equipment												
Centralized System	828	1,000	1,094	510	7,770	9,724	11,537	5,640	106.6	102.8	94.9	90.4
Distributed System	179	228	312	117	2,325	2,670	4,564	1,981	77.1	85.2	68.3	58.9
Combination of Centralized and Distributed System	206	310	463	252	1,695	2,534	3,812	2,227	121.4	122.3	121.4	113.3
Lighting Equipment Types (more than one may apply)												
Incandescent	860	1,132	1,320	604	8,102	10,973	13,045	6,408	106.2	103.2	101.2	94.3
Standard Fluorescent	1,230	1,637	1,886	891	12,159	15,708	21,222	10,599	101.2	104.2	88.9	84.1
Compact Fluorescent	744	837	1,071	556	6,091	6,828	8,881	5,772	122.2	122.6	120.6	96.3
High Intensity Discharge	492	748	620	282	4,379	6,620	6,229	3,416	112.3	113.0	99.5	82.5
Halogen	430	573	675	303	3,581	4,661	6,193	3,268	120.1	122.9	109.0	92.9
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)[a]												
Any Refrigeration	1,136	1,456	1,818	804	10,842	14,082	19,103	8,947	104.7	103.4	95.2	89.9
Commercial Refrigeration	758	883	1,225	469	5,936	7,122	9,638	4,072	127.8	124.0	127.1	115.2
Walk-In Units	588	701	1,073	404	4,452	5,201	7,469	3,132	132.0	134.9	143.6	129.0
Cases or Cabinets	641	654	1,006	402	4,504	4,978	7,664	3,277	142.3	131.4	131.2	122.6
Residential-Type Units	819	1,026	1,102	519	8,288	10,792	13,162	6,642	98.9	95.0	83.7	78.2
Vending Machines	786	1,023	1,345	567	6,559	9,400	13,534	5,841	119.8	108.9	99.4	97.0
No Refrigeration	136	234	130	107	2,064	2,997	4,386	2,363	65.7	78.0	29.7	45.4
Office Equipment (more than one may apply)												
Computers	1,198	1,526	1,794	859	11,518	14,415	19,715	9,980	104.0	105.8	91.0	86.0
With Flat Screen Monitors	748	750	1,005	463	5,995	6,346	9,135	4,940	124.8	118.2	110.0	93.7
Dedicated Servers	909	1,028	1,242	581	8,143	9,252	12,649	6,294	111.7	111.1	98.2	92.3
Laser Printers	685	834	966	524	7,095	8,463	11,566	5,888	96.6	98.6	83.5	89.0
Inkjet Printers	718	914	1,153	516	6,415	8,305	11,480	6,009	112.0	110.1	100.5	85.9
FAX Machines	1,165	1,391	1,747	789	11,173	13,295	18,782	9,123	104.3	104.6	93.0	86.5
Photocopiers	1,051	1,236	1,479	699	9,893	11,859	16,312	8,193	106.2	104.2	90.7	85.4
Number of Computers												
None	73	164	155	53	1,388	2,664	3,774	1,330	52.9	61.5	41.0	39.6
1 to 4	183	327	363	143	2,081	3,743	4,419	2,151	87.9	87.3	82.2	66.3
5 to 9	88	193	152	112	1,604	1,938	2,538	1,099	55.0	99.8	59.9	102.0
10 to 19	112	168	145	90	1,321	1,690	2,403	1,196	84.7	99.5	60.4	75.1
20 to 49	146	186	250	126	1,504	1,932	2,425	1,554	96.9	96.0	103.0	81.1
50 to 99	100	133	207	73	1,157	1,049	2,102	1,068	Q	126.6	98.6	67.9
100 to 249	173	198	222	121	1,260	1,851	2,262	1,317	137.2	106.7	98.2	91.9
250 or More	396	322	455	194	2,590	2,213	3,565	1,595	152.8	145.4	127.5	121.9
Number of Dedicated Servers												
None	362	662	706	330	4,763	7,828	10,839	5,015	75.9	84.6	65.1	65.9
1 to 4	518	650	715	351	5,247	6,567	8,208	4,093	98.7	99.0	87.1	85.7
5 to 9	Q	114	140	61	914	966	1,313	671	Q	118.3	106.9	91.1
10 to 19	Q	124	155	53	578	773	1,126	552	Q	160.3	138.0	96.2
20 to 49	Q	Q	141	Q	493	334	1,265	491	Q	Q	111.8	Q
50 or More	Q	86	90	Q	912	Q	737	487	Q	141.1	122.5	Q

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

	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6
Number of Photocopiers												
None	220	454	469	212	3,012	5,221	7,176	3,117	73.0	86.9	65.4	68.0
One	231	366	340	192	3,027	4,235	5,460	2,753	76.4	86.5	62.2	69.9
2 to 4	276	384	482	192	2,944	4,026	5,518	2,594	93.7	95.5	87.3	74.2
5 to 9	177	162	197	76	1,518	1,401	1,782	814	116.4	115.8	110.6	93.2
10 or More	367	323	461	239	2,404	2,196	3,553	2,032	152.7	147.1	129.7	117.4
Energy-Related Space Functions (more than one may apply)												
Commercial Food Preparation	618	731	967	396	5,016	5,850	7,880	3,478	123.1	124.9	122.7	113.7
Activities with Large Amounts of Hot Water	506	683	856	421	3,922	5,225	6,903	3,432	129.0	130.7	124.0	122.6
Separate Computer Area	763	731	943	458	5,925	6,482	9,397	5,070	128.8	112.8	100.3	90.3
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System	525	648	845	362	3,780	5,001	7,348	3,468	138.9	129.6	115.0	104.5
Economizer Cycle	587	752	813	436	4,141	5,884	6,632	4,452	141.8	127.8	122.6	98.0
HVAC Maintenance	1,160	1,457	1,731	822	11,047	13,128	17,641	9,347	105.0	111.0	98.1	87.9
Energy Management and Control System (EMCS)	419	460	609	295	3,002	3,799	5,802	3,027	139.5	121.0	104.9	97.4
Window and Interior Lighting Features (more than one may apply)												
Multipaned Windows	950	1,253	1,197	529	9,308	11,761	12,305	5,536	102.0	106.5	97.3	95.6
Tinted Window Glass	628	843	1,129	498	4,958	7,319	11,950	5,660	126.7	115.1	94.4	88.0
Reflective Window Glass	198	249	340	139	1,661	2,165	3,010	1,707	119.2	115.2	113.0	81.5
External Overhangs or Awnings	297	441	669	329	2,687	4,225	6,785	3,545	110.6	104.5	98.5	92.9
Skylights or Atriums	300	380	379	247	2,892	3,267	3,922	2,466	103.8	116.4	96.7	100.3
Daylighting Sensors	Q	112	79	139	428	815	674	951	Q	137.1	117.8	145.9
Specular Reflectors	674	931	812	412	5,834	7,709	7,871	4,703	115.6	120.7	103.1	87.5
Electronic Ballasts	1,002	1,403	1,580	761	9,288	12,610	16,459	8,525	107.9	111.3	96.0	89.2
Energy Management and Control System (EMCS) For Lighting	Q	162	148	108	849	1,292	1,471	1,169	Q	125.1	100.5	92.7
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]												
Heating	922	1,009	1,197	613	9,519	10,908	14,655	7,639	96.8	92.5	81.7	80.3
Cooling	883	1,002	1,309	649	8,812	10,469	16,094	7,829	100.2	95.8	81.4	82.9
Lighting	724	1,259	1,260	575	8,706	12,884	17,115	8,282	83.1	97.8	73.6	69.5
Office Equipment	355	496	401	213	4,269	5,412	6,426	3,291	83.0	91.7	62.5	64.8

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

	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Sum of Major Fuel Expenditures (million dollars)				Sum of Major Fuel Expenditures (dollars) per Million Btu				Sum of Major Fuel Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60
Building Floorspace (Square Feet)												
1,001 to 5,000	2,298	3,235	4,752	2,526	19.47	15.74	19.77	23.48	2.24	1.71	1.88	1.89
5,001 to 10,000	1,806	1,694	3,368	2,529	17.72	14.50	18.24	22.49	1.61	1.08	1.27	2.04
10,001 to 25,000	2,606	3,157	4,530	2,846	17.56	13.85	18.09	19.03	1.32	1.02	1.03	1.36
25,001 to 50,000	1,768	3,033	3,422	2,170	16.61	12.27	16.67	19.02	1.37	1.18	1.08	1.32
50,001 to 100,000	3,479	2,592	3,959	1,866	17.16	12.25	15.52	20.88	1.71	1.15	1.15	1.41
100,001 to 200,000	3,292	3,029	5,328	1,743	15.74	12.02	14.20	17.92	1.55	1.32	1.53	1.48
200,001 to 500,000	2,877	2,798	2,781	1,892	15.20	11.47	14.55	18.84	1.62	1.27	1.45	1.47
Over 500,000	Q	1,983	3,456	2,545	Q	10.75	14.03	18.12	Q	1.65	1.79	2.08
Principal Building Activity												
Education	2,508	2,465	4,948	2,087	14.66	11.24	16.46	16.14	1.49	0.97	1.24	1.25
Food Sales	Q	1,192	1,814	Q	Q	16.99	19.86	Q	Q	3.72	3.73	Q
Food Service	Q	1,384	3,399	1,250	Q	13.95	15.70	19.37	Q	3.05	4.45	4.72
Health Care	1,510	1,690	2,681	1,560	13.30	10.30	12.37	15.70	2.82	2.12	2.10	2.82
Inpatient	Q	1,052	2,180	Q	Q	8.81	11.47	Q	Q	2.40	2.60	Q
Outpatient	Q	638	501	658	Q	14.27	18.76	20.17	Q	1.78	1.14	2.33
Lodging	1,531	1,434	2,451	2,029	14.16	11.51	14.92	18.00	Q	1.25	1.45	1.87
Retail (Other Than Mall)	837	1,212	2,433	1,499	20.43	13.40	19.20	24.64	1.33	1.38	1.32	1.56
Office	6,229	4,787	5,609	4,216	20.44	14.72	17.05	24.13	2.07	1.60	1.48	1.74
Public Assembly	1,329	1,290	1,735	Q	14.22	12.54	15.87	22.31	Q	1.28	1.48	2.03
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	425	693	1,071	268	13.02	11.76	18.66	18.86	0.68	0.62	0.71	0.52
Service	942	1,434	1,535	867	15.97	13.09	Q	16.33	1.27	1.11	1.13	1.31
Warehouse and Storage	1,056	2,724	1,928	1,187	16.66	12.08	18.24	19.36	0.69	0.90	0.49	0.76
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed												
Before 1920	1,710	1,434	605	Q	14.93	11.63	14.74	Q	1.22	0.92	1.17	Q
1920 to 1945	3,246	2,880	1,301	1,242	14.69	11.01	16.57	21.07	1.30	1.37	0.97	1.35
1946 to 1959	2,943	2,031	2,126	1,440	15.54	12.34	15.42	19.57	1.41	1.00	1.18	1.28
1960 to 1969	3,505	2,448	3,222	2,203	16.63	11.96	16.04	18.29	2.02	1.10	1.27	1.38
1970 to 1979	3,425	4,127	5,077	3,500	17.91	12.82	15.88	18.41	1.99	1.27	1.36	1.68
1980 to 1989	2,923	3,069	7,152	4,202	20.02	13.90	15.93	19.26	2.13	1.57	1.50	1.87
1990 to 1999	2,216	3,988	8,567	3,989	18.83	13.96	16.34	23.45	1.62	1.45	1.37	1.99
2000 to 2003	1,376	1,544	3,544	1,158	Q	14.43	17.96	20.60	1.97	1.25	1.39	1.12
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	3,499	6,874	N	3,336	17.74	12.76	N	13.14	1.45	1.22	N	1.29
5,500-7,000 HDD	8,356	13,204	N	2,895	15.92	12.72	N	14.66	1.55	1.34	N	1.40
4,000-5,499 HDD	9,489	1,442	6,339	Q	17.29	12.80	15.58	18.99	1.86	0.90	1.54	1.78
Fewer than 4,000 HDD	N	N	13,141	9,231	N	N	14.87	28.07	N	N	1.27	1.71
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	12,115	1,419	N	N	18.42	21.51	N	N	1.34	2.55
Number of Floors												
One	5,015	7,842	13,429	7,330	18.50	13.88	18.24	20.09	1.59	1.28	1.14	1.48
Two	4,166	5,474	6,664	4,628	16.42	12.75	16.62	20.42	1.38	1.06	1.35	1.48
Three	2,390	3,012	2,457	1,285	15.31	12.75	15.02	20.20	1.15	1.17	1.27	1.43
Four to Nine	6,000	4,237	5,941	2,789	16.30	11.15	13.66	18.23	2.00	1.59	1.92	2.10
Ten or More	Q	Q	3,105	Q	Q	Q	14.62	Q	Q	Q	1.77	Q

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

	Sum of Major Fuel Expenditures (million dollars)				Sum of Major Fuel Expenditures (dollars)							
					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*	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60
Elevators and Escalators (more than one may apply)												
Any Elevators	11,964	9,486	13,512	7,290	16.55	11.96	14.41	19.60	1.95	1.42	1.70	1.89
Number of Elevators												
One	2,895	3,543	3,184	1,345	17.37	12.28	15.95	17.50	1.83	1.15	1.29	1.25
Two to Five	4,886	4,082	5,587	2,663	16.18	12.22	14.21	20.77	1.64	1.51	1.81	1.96
Six or More	4,183	1,861	4,741	3,283	16.46	10.91	13.75	19.66	2.65	2.09	1.99	2.31
Any Escalators	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Number of Workers (main shift)												
Fewer than 5	2,461	4,520	4,256	2,378	16.11	13.25	20.21	21.09	1.04	0.91	0.75	0.96
5 to 9	1,646	1,954	3,162	1,503	18.56	14.94	18.70	18.82	1.52	1.34	1.22	1.47
10 to 19	2,128	2,417	3,596	1,795	16.49	13.26	18.06	21.36	1.14	1.16	1.31	1.62
20 to 49	3,614	3,879	5,709	3,203	17.40	12.52	15.60	19.22	1.56	1.36	1.47	1.66
50 to 99	2,655	2,903	3,486	2,121	16.07	12.57	15.96	18.76	1.66	1.26	1.31	1.55
100 to 249	2,876	2,453	4,878	2,763	16.04	11.98	14.68	22.79	2.16	1.52	1.93	1.98
250 or More	5,965	3,394	6,508	4,355	17.11	11.71	14.37	18.65	2.56	1.89	1.91	2.19
Weekly Operating Hours												
Fewer than 40	528	1,098	1,287	783	15.12	13.21	18.86	18.96	0.57	0.48	0.51	0.71
40 to 48	2,419	3,157	4,689	2,483	15.01	13.23	18.26	21.28	1.15	1.13	1.03	1.15
49 to 60	4,030	5,704	6,022	3,705	18.23	12.75	17.33	22.67	1.30	1.24	1.08	1.51
61 to 84	3,345	3,323	5,555	2,817	17.19	13.23	16.91	18.81	1.63	1.29	1.48	1.44
85 to 167	2,960	3,836	5,164	2,326	18.35	13.39	16.14	19.11	2.25	1.91	2.10	1.78
Open Continuously	8,062	4,402	8,877	6,005	16.19	11.50	14.15	18.86	2.37	1.58	1.93	2.57
Ownership and Occupancy												
Nongovernment Owned	17,306	15,018	23,198	14,154	17.42	13.14	16.48	21.46	1.67	1.20	1.30	1.62
Owner Occupied	9,772	7,513	10,288	5,979	16.83	12.78	16.42	22.55	1.66	1.22	1.31	1.64
Nonowner Occupied	7,441	7,338	12,806	8,128	18.26	13.57	16.54	20.74	1.77	1.32	1.37	1.69
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	4,038	6,503	8,397	3,964	14.53	11.90	15.53	15.75	1.60	1.41	1.48	1.54
Federal	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	1.96	Q
State	Q	Q	2,976	1,384	Q	Q	13.56	15.69	Q	Q	1.73	1.90
Local	2,483	2,927	4,399	2,039	14.31	11.65	17.24	16.93	1.46	1.00	1.29	1.32
Vacancy Status												
Completely Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	5,398	4,070	5,030	3,125	18.16	12.63	16.66	19.01	1.73	1.30	1.24	1.50
Not At All Vacant	15,731	17,136	26,443	14,893	16.36	12.79	16.14	20.11	1.70	1.32	1.41	1.68
Number of Establishments												
One	13,370	16,206	22,598	12,980	15.89	12.84	16.44	18.83	1.66	1.31	1.33	1.67
2 to 5	4,318	3,711	5,052	2,949	17.66	12.75	15.60	22.17	1.72	1.32	1.35	1.55
6 to 10	1,019	605	1,184	593	17.51	10.77	15.58	23.58	1.78	1.19	2.15	1.81
11 to 20	Q	Q	907	Q	Q	Q	14.70	Q	Q	Q	1.54	Q
More than 20	Q	Q	1,740	Q	Q	Q	16.51	Q	Q	Q	1.72	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Sum of Major Fuel Expenditures (million dollars)				Sum of Major Fuel Expenditures (dollars)							
					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*	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60
Predominant Exterior Wall Material												
Brick, Stone or Stucco	11,983	12,651	16,070	7,694	15.57	12.59	15.93	19.11	1.65	1.37	1.39	1.62
Concrete (Block or Poured)	3,482	3,611	5,714	3,208	18.67	12.52	16.68	20.50	1.59	1.25	1.43	1.81
Concrete Panels	Q	1,877	4,661	2,967	Q	12.55	16.16	19.37	Q	1.53	1.69	1.50
Siding or Shingles	1,272	1,043	1,268	1,487	16.82	14.69	17.35	26.21	1.07	0.88	1.21	2.13
Metal Panels	2,068	1,435	2,778	1,915	19.87	15.10	16.83	19.37	1.96	0.76	0.81	1.23
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material												
Built-Up	7,382	7,284	11,161	7,318	17.85	12.44	15.79	19.37	1.81	1.38	1.50	1.66
Shingles (Not Wood)	3,288	3,353	4,131	2,793	15.88	12.98	17.53	22.97	1.63	1.05	1.24	1.69
Metal Surfacing	1,147	2,178	5,269	2,189	19.90	13.57	18.14	18.05	1.12	0.82	0.84	1.12
Synthetic or Rubber	7,735	6,210	7,637	3,243	16.54	12.88	14.85	17.54	1.88	1.40	1.78	1.73
Slate or Tile	Q	388	1,383	1,202	Q	12.88	17.48	25.73	Q	1.27	1.31	1.94
Wooden Materials	Q	Q	Q	291	Q	Q	Q	Q	Q	Q	Q	1.19
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	1.53	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)												
Any Type of Renovation Since 1980	8,758	6,522	6,154	4,223	16.31	11.53	14.80	17.03	1.72	1.20	1.38	1.49
Addition or Annex	2,757	2,582	2,761	1,429	14.75	10.71	14.16	13.03	1.53	1.31	1.53	1.46
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	7,113	4,939	4,245	3,324	16.97	11.60	14.92	17.72	1.80	1.27	1.37	1.52
Wall or Roof Replacement	4,422	2,702	2,595	1,934	17.01	11.72	15.15	16.76	1.65	1.21	1.39	1.50
Interior Wall Re-Configuration	4,296	3,448	2,812	2,575	16.20	11.71	14.00	17.09	1.73	1.33	1.45	1.71
HVAC Equipment Upgrade	5,929	4,223	3,914	2,832	17.53	11.44	14.10	16.51	1.96	1.27	1.51	1.55
Lighting Upgrade	5,917	3,880	3,025	2,911	16.21	11.51	14.09	17.29	1.77	1.27	1.45	1.64
Window Replacement	4,548	2,068	1,216	1,270	16.78	11.25	14.89	16.61	1.65	1.12	1.33	1.51
Plumbing System Upgrade	4,289	2,481	2,007	2,188	16.46	11.54	13.53	17.60	1.71	1.31	1.47	1.60
Insulation Upgrade	2,398	1,424	1,257	789	17.33	12.35	15.02	18.21	1.75	1.18	1.47	1.37
Other Renovation	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	6,070	6,398	6,178	4,545	15.57	12.53	17.05	20.78	1.39	1.12	1.13	1.43
Building Newer than 1980	6,516	8,601	19,263	9,350	18.93	14.02	16.46	21.03	1.89	1.45	1.42	1.77
Energy Sources (more than one may apply)												
Electricity	21,344	21,518	31,595	18,118	16.79	12.74	16.22	19.88	1.67	1.29	1.39	1.64
Natural Gas	16,336	17,202	20,764	13,159	16.38	12.47	14.94	18.13	1.78	1.31	1.56	1.68
Fuel Oil	9,930	4,397	6,953	4,625	15.62	11.30	14.24	18.75	1.63	1.55	1.69	2.18
District Heat	Q	Q	Q	Q	Q	Q	13.30	Q	Q	Q	2.44	Q
District Chilled Water	Q	Q	2,629	Q	Q	Q	13.04	Q	Q	Q	2.29	Q
Propane	1,606	2,729	2,488	2,601	16.45	12.91	16.75	20.49	1.19	1.25	1.05	2.22
Other	Q	599	551	Q	Q	12.59	Q	Q	Q	1.19	1.80	Q

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

	Sum of Major Fuel Expenditures (million dollars)				Sum of Major Fuel Expenditures (dollars) per Million Btu				Sum of Major Fuel Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60
Space-Heating Energy Sources (more than one may apply)												
Electricity	8,456	7,487	17,900	7,894	19.05	13.68	17.67	21.39	1.92	1.20	1.37	1.61
Natural Gas	12,966	15,164	15,939	10,889	16.66	12.36	14.74	18.29	1.79	1.25	1.49	1.59
Fuel Oil	4,722	1,105	1,196	Q	13.18	10.24	13.00	Q	1.20	1.21	1.33	Q
District Heat	Q	Q	Q	Q	Q	Q	13.21	Q	Q	Q	2.49	Q
Propane	Q	519	1,220	Q	Q	19.13	17.40	Q	Q	0.64	1.02	Q
Other	Q	215	Q	Q	Q	Q	Q	Q	Q	0.79	Q	Q
Primary Space-Heating Energy Source												
Electricity	2,318	3,353	11,722	4,618	23.46	16.36	19.67	24.43	1.85	1.32	1.29	1.48
Natural Gas	11,229	13,617	13,826	9,525	16.59	12.24	14.55	17.62	1.74	1.20	1.49	1.61
Fuel Oil	3,278	Q	Q	Q	13.65	Q	Q	Q	1.01	Q	Q	Q
District Heat	Q	Q	Q	Q	Q	Q	13.27	Q	Q	Q	2.50	Q
Propane	Q	396	485	Q	Q	21.94	21.82	37.59	Q	0.70	0.72	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling Energy Sources (more than one may apply)												
Electricity	18,271	17,938	29,097	16,172	17.01	12.93	16.47	20.41	1.76	1.30	1.41	1.70
Natural Gas	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Chilled Water	Q	Q	2,629	Q	Q	Q	13.04	Q	Q	Q	2.29	Q
Water-Heating Energy Sources (more than one may apply)												
Electricity	7,228	7,602	15,995	6,082	17.88	13.47	17.60	22.72	1.41	1.17	1.35	1.52
Natural Gas	10,768	11,529	14,522	10,791	16.31	12.24	14.44	18.05	1.92	1.31	1.75	1.76
Fuel Oil	2,025	Q	Q	Q	13.07	Q	Q	Q	1.31	Q	Q	Q
District Heat	Q	Q	Q	Q	Q	Q	13.66	Q	Q	Q	2.45	Q
Propane	Q	Q	500	Q	Q	15.90	18.42	Q	Q	0.68	0.93	Q
Cooking Energy Sources (more than one may apply)												
Electricity	5,129	5,433	9,274	3,786	16.29	12.09	15.50	17.48	2.06	1.44	1.89	1.91
Natural Gas	6,991	6,263	11,058	5,131	15.25	11.64	14.29	16.92	1.95	1.58	2.02	2.13
Propane	466	Q	584	Q	16.83	Q	17.45	Q	1.18	Q	1.30	Q
Energy End Uses (more than one may apply)												
Buildings with Space Heating	21,201	21,367	30,483	16,563	16.77	12.70	16.04	19.29	1.68	1.31	1.45	1.64
Buildings with Cooling	19,935	19,466	31,209	17,129	17.04	12.88	16.20	19.99	1.82	1.34	1.45	1.72
Buildings with Water Heating	20,407	19,598	29,918	17,295	16.82	12.75	16.01	19.67	1.73	1.31	1.50	1.76
Buildings with Cooking	9,562	8,772	14,691	7,241	15.48	12.01	15.19	18.23	1.91	1.50	1.86	2.08
Buildings with Manufacturing	1,485	870	624	Q	17.65	12.06	14.86	17.30	1.47	1.09	0.97	1.42
Buildings with Electricity Generation	7,871	5,766	7,028	4,756	17.23	11.84	14.19	18.75	2.43	1.74	1.75	2.12
Percent of Floorspace Heated												
Not Heated	Q	153	1,112	1,554	Q	21.19	23.22	29.47	Q	0.20	0.45	1.29
1 to 50	1,008	794	2,185	1,614	17.74	14.10	18.12	24.91	0.73	0.70	0.77	1.08
51 to 99	2,404	2,167	4,190	3,211	16.02	12.29	16.56	19.21	1.56	1.25	1.45	1.65
100	17,789	18,407	24,109	11,738	16.83	12.70	15.79	18.74	1.84	1.37	1.58	1.76

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

	Sum of Major Fuel Expenditures (million dollars)				Sum of Major Fuel Expenditures (dollars) per Million Btu				Sum of Major Fuel Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60
Percent of Floorspace Cooled												
Not Cooled	1,409	2,055	386	989	13.90	11.50	17.92	18.21	0.72	0.79	0.20	0.73
1 to 50	4,827	4,108	3,503	3,065	14.88	12.22	16.86	19.45	1.13	0.86	0.71	1.15
51 to 99	6,603	5,439	6,151	4,253	17.52	12.50	16.28	19.08	2.13	1.45	1.58	1.74
100	8,505	9,919	21,556	9,811	18.16	13.41	16.07	20.59	2.37	1.66	1.69	2.02
Percent Lit When Open												
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	2,378	2,236	2,411	1,574	15.10	12.54	18.16	21.94	0.86	0.81	0.76	1.04
51 to 99	7,274	6,631	8,536	5,813	17.09	12.90	16.60	20.61	2.02	1.25	1.39	1.79
100	11,536	12,338	20,429	10,654	17.01	12.72	15.86	19.28	1.91	1.59	1.59	1.75
Building Never Open/ Electricity Not Used	Q	301	Q	Q	Q	Q	Q	Q	Q	0.25	Q	Q
Percent Lit When Closed												
Zero	3,294	5,545	5,920	3,549	17.39	12.78	17.77	20.20	1.17	1.07	0.94	1.14
1 to 50	9,231	10,434	15,141	8,206	17.03	13.20	16.93	20.55	1.47	1.26	1.37	1.53
51 to 100	Q	1,138	1,657	Q	Q	13.87	17.70	Q	Q	2.28	1.64	Q
Building Never Closed/ Electricity Not Used	8,062	4,405	8,878	6,005	16.19	11.50	14.15	18.86	2.32	1.41	1.72	2.30
Heating Equipment (more than one may apply)												
Heat Pumps	3,282	1,298	6,729	2,941	18.52	13.47	17.04	21.57	2.71	1.23	1.36	1.84
Packaged Heat Pumps	1,938	907	4,454	2,030	Q	13.26	17.36	20.71	2.60	1.23	1.52	1.97
Split-System Heat Pumps	Q	Q	2,201	738	Q	Q	17.37	24.40	Q	Q	1.18	2.01
Individual Room Heat Pumps	Q	Q	1,596	667	Q	Q	15.87	19.81	Q	Q	1.28	1.24
Furnaces	4,758	8,025	6,516	4,190	17.28	13.46	16.42	18.64	1.32	1.11	1.14	1.36
Individual Space Heaters	4,626	4,368	4,549	2,421	17.62	12.87	16.49	16.60	1.66	1.05	1.26	1.22
District Heat	Q	Q	Q	Q	Q	Q	13.21	Q	Q	Q	2.49	Q
Boilers	9,785	7,454	7,486	6,327	14.81	11.37	13.38	17.19	1.57	1.21	1.70	1.73
Packaged Heating Units	6,770	5,282	12,272	5,578	18.57	13.17	17.00	23.17	2.32	1.44	1.51	1.68
Other	Q	1,048	1,508	593	Q	14.09	17.78	18.23	Q	1.28	1.09	1.23
Cooling Equipment (more than one may apply)												
Residential-Type Central Air Conditioners	3,882	4,378	4,419	1,762	16.38	12.78	17.36	19.65	1.62	1.21	1.15	1.49
Heat Pumps	3,376	1,313	6,856	3,194	18.49	13.21	16.90	21.37	2.66	1.23	1.39	1.79
Packaged Heat Pumps	2,019	944	4,417	1,976	Q	13.07	17.33	20.41	2.56	1.24	1.55	1.92
Split-System Heat Pumps	Q	Q	2,271	771	Q	Q	17.24	23.98	Q	Q	1.22	1.91
Individual Room Heat Pumps	Q	Q	1,690	982	Q	Q	15.67	20.08	Q	Q	1.31	1.34
Individual Air Conditioners	5,230	3,744	4,391	2,811	14.87	11.69	16.16	20.67	1.42	1.07	1.21	1.61
District Chilled Water	Q	Q	2,629	Q	Q	Q	13.04	Q	Q	Q	2.29	Q
Central Chillers	4,731	4,571	8,574	4,572	16.10	11.32	14.28	19.61	2.55	1.61	1.77	2.19
Packaged Air Conditioning Units	11,093	11,024	14,884	9,330	16.87	12.95	16.59	20.42	1.85	1.36	1.43	1.70
Swamp Coolers	Q	Q	Q	2,049	Q	Q	Q	15.26	Q	Q	Q	1.53
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)												
Heating	5,572	5,905	5,972	4,093	18.33	12.80	16.15	17.64	1.40	1.17	1.24	1.58
Cooling	9,227	7,399	8,366	5,396	17.26	12.39	16.03	18.28	1.69	1.29	1.30	1.60

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

	Sum of Major Fuel Expenditures (million dollars)				Sum of Major Fuel Expenditures (dollars)							
					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*	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60
Water Heating Equipment												
Centralized System	13,758	13,278	17,757	9,976	16.61	13.28	16.23	19.56	1.77	1.37	1.54	1.77
Distributed System	3,187	2,962	5,419	2,827	17.78	13.01	17.38	24.21	1.37	1.11	1.19	1.43
Combination of Centralized and Distributed System	3,463	3,358	6,742	4,493	16.83	10.84	14.57	17.80	2.04	1.33	1.77	2.02
Lighting Equipment Types (more than one may apply)												
Incandescent	14,219	14,319	20,589	11,232	16.53	12.65	15.60	18.59	1.76	1.30	1.58	1.75
Standard Fluorescent	20,666	20,834	30,464	17,662	16.80	12.73	16.15	19.81	1.70	1.33	1.44	1.67
Compact Fluorescent	12,479	10,498	15,934	10,660	16.76	12.54	14.88	19.17	2.05	1.54	1.79	1.85
High Intensity Discharge	8,290	8,871	9,455	5,384	16.86	11.86	15.25	19.10	1.89	1.34	1.52	1.58
Halogen	7,455	6,817	10,142	5,804	17.33	11.90	15.03	19.13	2.08	1.46	1.64	1.78
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)[a]												
Any Refrigeration	18,988	18,548	29,141	15,880	16.72	12.74	16.03	19.75	1.75	1.32	1.53	1.77
Commercial Refrigeration	12,287	10,930	18,876	8,843	16.20	12.38	15.41	18.86	2.07	1.53	1.96	2.17
Walk-In Units	9,630	8,580	16,164	7,438	16.38	12.23	15.07	18.41	2.16	1.65	2.16	2.37
Cases or Cabinets	10,231	8,075	15,591	7,567	15.97	12.34	15.50	18.83	2.27	1.62	2.03	2.31
Residential-Type Units	13,108	13,081	17,727	10,192	16.00	12.76	16.08	19.63	1.58	1.21	1.35	1.53
Vending Machines	12,657	12,442	20,697	10,495	16.11	12.16	15.38	18.52	1.93	1.32	1.53	1.80
No Refrigeration	2,355	2,973	2,454	2,238	17.38	12.71	18.81	20.88	1.14	0.99	0.56	0.95
Office Equipment (more than one may apply)												
Computers	20,062	19,381	28,855	17,109	16.75	12.70	16.09	19.93	1.74	1.34	1.46	1.71
With Flat Screen Monitors	12,641	9,288	15,413	9,362	16.90	12.39	15.33	20.23	2.11	1.46	1.69	1.90
Dedicated Servers	15,313	13,036	19,117	11,911	16.84	12.69	15.39	20.51	1.88	1.41	1.51	1.89
Laser Printers	11,298	10,344	15,714	10,523	16.49	12.40	16.27	20.09	1.59	1.22	1.36	1.79
Inkjet Printers	12,502	11,824	17,974	10,220	17.40	12.93	15.58	19.79	1.95	1.42	1.57	1.70
FAX Machines	19,559	17,648	27,796	15,899	16.79	12.69	15.91	20.16	1.75	1.33	1.48	1.74
Photocopiers	17,464	15,408	23,166	14,041	16.61	12.47	15.66	20.08	1.77	1.30	1.42	1.71
Number of Computers												
None	1,282	2,140	2,740	1,009	17.45	13.06	17.72	19.18	0.92	0.80	0.73	0.76
1 to 4	3,089	4,589	6,663	2,916	16.88	14.05	18.35	20.45	1.48	1.23	1.51	1.36
5 to 9	1,604	2,339	2,749	1,957	18.19	12.10	18.08	17.45	1.00	1.21	1.08	1.78
10 to 19	1,909	2,222	2,518	1,939	17.06	13.22	17.35	21.58	1.45	1.32	1.05	1.62
20 to 49	2,555	2,409	3,784	3,030	17.53	12.99	15.15	24.06	1.70	1.25	1.56	1.95
50 to 99	1,548	1,625	3,155	1,561	15.45	12.23	15.23	21.52	Q	1.55	1.50	1.46
100 to 249	2,771	2,401	3,466	2,153	16.02	12.15	15.60	17.78	2.20	1.30	1.53	1.63
250 or More	6,586	3,797	6,521	3,552	16.65	11.80	14.34	18.27	2.54	1.72	1.83	2.23
Number of Dedicated Servers												
None	6,031	8,485	12,479	6,207	16.68	12.81	17.68	18.79	1.27	1.08	1.15	1.24
1 to 4	8,340	8,382	11,294	6,975	16.11	12.89	15.80	19.89	1.59	1.28	1.38	1.70
5 to 9	Q	1,468	2,203	1,525	Q	12.84	15.70	24.94	Q	1.52	1.68	2.27
10 to 19	Q	1,338	2,216	1,110	Q	10.80	14.27	20.93	Q	1.73	1.97	2.01
20 to 49	Q	Q	2,138	Q	Q	Q	15.11	Q	Q	Q	1.69	Q
50 or More	Q	1,155	1,266	Q	Q	13.40	14.01	Q	Q	1.89	1.72	Q

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

	Sum of Major Fuel Expenditures (million dollars)				Sum of Major Fuel Expenditures (dollars)							
					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*	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60
Number of Photocopiers												
None	3,880	6,113	8,429	4,077	17.64	13.47	17.97	19.24	1.29	1.17	1.17	1.31
One	3,833	4,733	6,054	3,816	16.57	12.92	17.81	19.83	1.27	1.12	1.11	1.39
2 to 4	4,517	4,954	7,500	4,010	16.37	12.89	15.57	20.84	1.53	1.23	1.36	1.55
5 to 9	2,780	1,874	3,016	1,771	15.73	11.55	15.31	23.34	1.83	1.34	1.69	2.17
10 or More	6,334	3,848	6,596	4,444	17.26	11.91	14.32	18.63	2.63	1.75	1.86	2.19
Energy-Related Space Functions (more than one may apply)												
Commercial Food Preparation	9,562	8,772	14,690	7,229	15.48	12.01	15.19	18.28	1.91	1.50	1.86	2.08
Activities with Large Amounts of Hot Water	7,641	7,812	12,288	7,163	15.10	11.44	14.36	17.02	1.95	1.50	1.78	2.09
Separate Computer Area	12,390	8,956	14,183	9,023	16.24	12.24	15.04	19.71	2.09	1.38	1.51	1.78
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System	8,946	7,873	12,510	6,925	17.05	12.15	14.81	19.11	2.37	1.57	1.70	2.00
Economizer Cycle	10,399	9,370	11,888	7,936	17.71	12.46	14.62	18.19	2.51	1.59	1.79	1.78
HVAC Maintenance	19,443	18,283	27,254	16,349	16.77	12.55	15.74	19.89	1.76	1.39	1.54	1.75
Energy Management and Control System (EMCS)	7,348	5,459	9,285	5,554	17.54	11.87	15.25	18.83	2.45	1.44	1.60	1.84
Window and Interior Lighting Features (more than one may apply)												
Multipaned Windows	15,717	16,103	18,428	9,108	16.55	12.85	15.39	17.21	1.69	1.37	1.50	1.65
Tinted Window Glass	10,569	10,767	17,975	10,257	16.82	12.78	15.93	20.58	2.13	1.47	1.50	1.81
Reflective Window Glass	3,661	3,059	5,149	2,545	18.50	12.26	15.14	18.28	2.20	1.41	1.71	1.49
External Overhangs or Awnings	5,115	5,826	10,769	6,539	17.21	13.20	16.11	19.85	1.90	1.38	1.59	1.84
Skylights or Atriums	4,694	4,490	5,557	4,543	15.64	11.81	14.65	18.37	1.62	1.37	1.42	1.84
Daylighting Sensors	Q	1,336	1,173	2,945	Q	11.95	14.78	21.21	Q	1.64	1.74	3.10
Specular Reflectors	11,394	11,334	12,462	8,276	16.89	12.18	15.35	20.10	1.95	1.47	1.58	1.76
Electronic Ballasts	17,031	17,658	24,971	15,213	16.99	12.59	15.81	20.00	1.83	1.40	1.52	1.78
Energy Management and Control System (EMCS) For Lighting	Q	1,975	2,339	2,284	Q	12.21	15.81	21.09	Q	1.53	1.59	1.95
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]												
Heating	15,363	12,897	19,642	12,391	16.67	12.79	16.41	20.20	1.61	1.18	1.34	1.62
Cooling	15,068	12,931	21,644	13,228	17.06	12.90	16.53	20.39	1.71	1.24	1.34	1.69
Lighting	12,402	16,515	21,641	11,755	17.14	13.11	17.18	20.43	1.42	1.28	1.26	1.42
Office Equipment	5,758	6,293	7,457	4,407	16.24	12.68	18.58	20.66	1.35	1.16	1.16	1.34

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

	Sum of Major Fuel Expenditures (million dollars)				Sum of Major Fuel Expenditures (dollars)							
					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*	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
Building Floorspace (Square Feet)									
1,001 to 5,000	33	85	146	360	666	974	91.2	128.1	149.7
5,001 to 10,000	Q	64	73	359	764	843	Q	83.7	86.8
10,001 to 25,000	Q	115	163	553	1,419	1,934	Q	81.2	84.3
25,001 to 50,000	Q	74	140	347	944	1,618	Q	78.7	86.8
50,001 to 100,000	Q	134	148	516	1,524	1,618	Q	87.8	91.5
100,001 to 200,000	Q	150	203	414	1,703	1,682	Q	87.9	120.8
200,001 to 500,000	Q	177	214	Q	1,673	1,801	Q	105.8	118.8
Over 500,000	Q	Q	Q	Q	1,248	1,126	Q	Q	Q
Principal Building Activity									
Education	Q	143	175	Q	1,384	1,990	Q	103.1	87.7
Food Sales	Q	Q	Q	Q	Q	218	Q	Q	Q
Food Service	Q	Q	68	Q	127	248	Q	Q	276.6
Health Care	Q	102	122	Q	464	551	Q	219.0	220.7
Inpatient	Q	Q	Q	Q	310	316	Q	Q	Q
Outpatient	Q	Q	Q	Q	Q	235	Q	Q	Q
Lodging	Q	Q	70	374	797	548	Q	Q	126.7
Retail (Other Than Mall)	Q	30	59	Q	419	544	Q	72.3	108.4
Office	66	239	263	578	2,434	2,190	114.6	98.0	120.1
Public Assembly	Q	Q	80	Q	769	635	Q	Q	126.8
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	Q	28	41	Q	474	720	Q	58.1	56.4
Service	Q	45	78	Q	620	775	Q	72.0	100.8
Warehouse and Storage	Q	55	175	Q	1,112	2,023	Q	49.2	86.4
Other	Q	Q	Q	Q	501	248	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	791	Q	Q	Q
Year Constructed									
Before 1920	38	76	84	444	962	999	86.7	79.0	84.5
1920 to 1945	Q	180	216	611	1,893	1,603	Q	95.0	135.0
1946 to 1959	Q	168	125	Q	1,745	1,454	Q	96.0	86.2
1960 to 1969	Q	150	134	Q	1,393	1,380	Q	107.4	97.0
1970 to 1979	Q	145	235	450	1,273	2,198	Q	114.2	107.1
1980 to 1989	Q	118	179	265	1,109	1,486	Q	106.4	120.8
1990 to 1999	Q	87	202	Q	1,130	1,655	Q	77.1	122.1
2000 to 2003	Q	Q	76	Q	435	820	Q	Q	93.3
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	61	Q	313	Q	1,445	3,050	62.8	94.2	102.8
5,500-7,000 HDD	232	293	940	1,993	3,404	8,545	116.6	85.9	110.0
4,000-5,499 HDD	N	549	N	N	5,092	N	N	107.8	N
Fewer than 4,000 HDD	N	N	N	N	N	N	N	N	N
2,000 CDD or More and --									
Fewer than 4,000 HDD	N	N	N	N	N	N	N	N	N
Number of Floors									
One	55	216	416	545	2,606	3,877	100.4	83.0	107.3
Two	49	205	283	742	2,288	3,251	65.6	89.7	87.0
Three	Q	113	172	755	1,327	1,881	Q	85.2	91.4
Four to Nine	129	239	312	793	2,210	2,081	163.1	108.0	149.7
Ten or More	Q	Q	71	Q	1,510	506	Q	Q	141.2

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
Elevators and Escalators (more than one may apply)									
Any Elevators	164	559	624	1,375	4,762	5,050	119.3	117.3	123.5
Number of Elevators									
One	Q	111	210	500	1,086	2,224	Q	102.2	94.3
Two to Five	Q	219	270	723	2,248	2,060	Q	97.3	131.3
Six or More	Q	229	144	Q	1,428	766	Q	160.4	187.3
Any Escalators	Q	Q	Q	Q	494	Q	Q	Q	Q
Number of Workers (main shift)									
Fewer than 5	58	95	264	776	1,599	3,195	74.3	59.5	82.5
5 to 9	Q	64	85	401	684	866	Q	94.3	98.3
10 to 19	Q	102	122	409	1,463	1,214	Q	69.5	100.3
20 to 49	Q	168	210	350	1,964	1,980	Q	85.3	106.2
50 to 99	Q	126	158	Q	1,110	1,570	Q	113.3	100.7
100 to 249	Q	Q	163	Q	1,034	1,212	Q	Q	134.1
250 or More	Q	306	252	Q	2,087	1,558	Q	146.7	161.8
Weekly Operating Hours									
Fewer than 40	Q	28	65	Q	725	1,600	Q	38.3	40.4
40 to 48	Q	123	184	440	1,672	1,746	86.5	73.7	105.2
49 to 60	45	176	348	837	2,261	3,340	53.7	77.9	104.1
61 to 84	Q	140	179	494	1,554	1,737	Q	90.4	103.2
85 to 167	Q	135	218	Q	1,078	1,450	Q	125.6	150.0
Open Continuously	Q	375	261	756	2,651	1,721	163.2	141.3	151.4
Ownership and Occupancy									
Nongovernment Owned	215	778	799	2,283	8,106	8,015	94.2	96.0	99.7
Owner Occupied	151	429	401	1,587	4,317	3,755	95.2	99.5	106.7
Nonowner Occupied	64	344	385	669	3,535	3,597	95.4	97.2	107.0
Unoccupied	Q	Q	Q	Q	Q	663	Q	Q	Q
Government Owned	78	199	454	682	1,835	3,580	115.1	108.7	126.9
Federal	Q	Q	Q	Q	Q	Q	Q	Q	Q
State	Q	Q	Q	Q	386	536	Q	Q	Q
Local	Q	145	202	346	1,360	2,199	Q	106.7	91.7
Vacancy Status									
Completely Vacant	Q	Q	Q	Q	Q	756	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	94	204	261	1,031	2,086	2,255	90.7	97.6	115.6
Not At All Vacant	199	763	973	1,795	7,475	8,549	110.6	102.1	113.9
Number of Establishments									
One	198	643	952	1,784	6,277	8,315	111.2	102.4	114.5
2 to 5	51	193	202	615	1,901	1,833	83.1	101.7	110.5
6 to 10	Q	Q	Q	Q	411	264	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	Q	641	Q	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q	756	Q	Q	Q

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
Predominant Exterior Wall Material									
Brick, Stone or Stucco	166	604	812	1,541	5,707	7,166	107.7	105.8	113.4
Concrete (Block or Poured)	Q	164	180	284	1,900	1,885	Q	86.1	95.5
Concrete Panels	Q	Q	104	Q	550	855	Q	Q	121.4
Siding or Shingles	52	24	36	779	415	473	66.5	57.6	75.5
Metal Panels	Q	Q	45	Q	862	651	Q	Q	69.8
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material									
Built-Up	Q	373	448	704	3,363	3,913	Q	110.9	114.5
Shingles (Not Wood)	66	141	186	683	1,340	2,070	96.3	105.5	89.8
Metal Surfacing	Q	49	85	Q	780	1,046	Q	62.7	81.3
Synthetic or Rubber	151	317	367	1,018	3,097	3,453	148.5	102.2	106.3
Slate or Tile	Q	Q	Q	Q	398	236	Q	Q	Q
Wooden Materials	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	138	399	396	1,445	3,659	3,492	95.6	109.0	113.4
Addition or Annex	Q	162	156	Q	1,395	1,243	Q	116.3	125.7
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	95	324	302	943	3,010	2,354	100.8	107.7	128.4
Wall or Roof Replacement	71	189	158	720	1,955	1,367	98.1	96.8	115.2
Interior Wall Re-Configuration	73	192	220	639	1,850	1,709	114.9	103.6	128.7
HVAC Equipment Upgrade	75	263	257	739	2,287	2,136	101.7	115.0	120.6
Lighting Upgrade	92	273	240	853	2,497	1,985	107.9	109.4	120.7
Window Replacement	73	198	144	688	2,061	1,339	105.7	96.2	107.4
Plumbing System Upgrade	78	182	154	633	1,878	1,177	123.8	97.0	131.2
Insulation Upgrade	Q	100	71	356	1,014	700	Q	99.0	101.4
Other Renovation	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	70	320	399	752	3,608	4,142	93.3	88.6	96.4
Building Newer than 1980	Q	259	458	767	2,675	3,961	110.9	96.9	115.6
Energy Sources (more than one may apply)									
Electricity	294	978	1,253	2,942	9,867	11,373	99.8	99.1	110.2
Natural Gas	187	810	1,029	1,465	7,716	9,570	127.8	105.0	107.5
Fuel Oil	147	489	277	1,577	4,502	1,871	92.9	108.7	148.1
District Heat	Q	Q	Q	Q	1,082	1,420	Q	Q	Q
District Chilled Water	Q	Q	Q	Q	583	569	Q	Q	Q
Propane	53	Q	164	Q	505	Q	62.0	Q	136.7
Other	Q	Q	Q	Q	Q	283	Q	Q	Q

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
Space-Heating Energy Sources (more than one may apply)									
Electricity	Q	319	362	1,132	3,273	3,895	110.7	97.4	92.9
Natural Gas	153	625	899	1,198	6,041	8,758	127.7	103.5	102.7
Fuel Oil	104	254	Q	1,219	2,708	456	85.5	Q	Q
District Heat	Q	Q	Q	Q	1,015	1,420	Q	Q	Q
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Primary Space-Heating Energy Source									
Electricity	Q	87	135	Q	1,127	1,487	Q	76.8	91.1
Natural Gas	118	559	824	1,061	5,377	8,230	110.7	104.0	100.1
Fuel Oil	99	141	Q	1,161	2,089	Q	85.6	Q	Q
District Heat	Q	Q	Q	Q	970	1,319	Q	Q	Q
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling Energy Sources (more than one may apply)									
Electricity	245	829	983	1,946	8,456	9,157	126.0	98.1	107.4
Natural Gas	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Chilled Water	Q	Q	Q	Q	583	569	Q	Q	Q
Water-Heating Energy Sources (more than one may apply)									
Electricity	123	281	374	1,439	3,686	4,086	85.5	76.3	91.6
Natural Gas	Q	563	709	682	4,919	6,417	142.4	114.4	110.5
Fuel Oil	68	87	Q	590	952	Q	115.5	Q	Q
District Heat	Q	Q	Q	Q	775	588	Q	Q	Q
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooking Energy Sources (more than one may apply)									
Electricity	Q	258	352	537	1,958	2,934	Q	131.5	120.1
Natural Gas	Q	400	415	474	3,106	3,052	Q	128.9	135.9
Propane	Q	Q	Q	266	Q	Q	Q	Q	Q
Energy End Uses (more than one may apply)									
Buildings with Space Heating	292	972	1,247	2,819	9,778	11,223	103.5	99.4	111.1
Buildings with Cooling	254	916	1,100	2,021	8,932	9,790	125.7	102.5	112.4
Buildings with Water Heating	285	928	1,120	2,724	9,065	10,208	104.6	102.4	109.7
Buildings with Cooking	98	520	564	938	4,078	4,378	104.4	127.4	128.7
Buildings with Manufacturing	Q	71	44	Q	679	489	Q	105.2	90.0
Buildings with Electricity Generation	Q	385	387	567	2,678	2,558	Q	143.9	151.2
Percent of Floorspace Heated									
Not Heated	Q	Q	Q	Q	Q	372	Q	Q	Q
1 to 50	Q	41	45	Q	899	774	Q	45.1	58.2
51 to 99	Q	116	137	418	1,120	1,214	Q	103.7	113.2
100	242	816	1,065	1,913	7,758	9,235	126.3	105.1	115.3

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
Percent of Floorspace Cooled									
Not Cooled	39	62	153	943	1,009	1,805	41.9	61.3	84.9
1 to 50	93	232	236	922	3,349	3,186	100.8	69.2	74.2
51 to 99	Q	286	305	550	2,551	2,436	Q	112.0	125.1
100	70	398	559	550	3,033	4,169	127.5	131.3	134.1
Percent Lit When Open									
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	44	114	116	953	1,796	1,575	45.8	63.3	73.6
51 to 99	105	321	377	1,070	2,529	3,641	97.9	126.9	103.4
100	143	535	737	830	5,221	5,418	172.4	102.5	136.0
Building Never Open/ Electricity Not Used	Q	Q	Q	Q	372	946	Q	Q	Q
Percent Lit When Closed									
Zero	43	147	321	721	2,086	3,237	59.3	70.3	99.1
1 to 50	119	423	606	1,400	4,880	6,101	85.3	86.6	99.3
51 to 100	Q	Q	Q	Q	Q	Q	Q	Q	Q
Building Never Closed/ Electricity Not Used	Q	375	261	764	2,711	1,916	161.3	138.2	136.1
Heating Equipment (more than one may apply)									
Heat Pumps	Q	141	68	Q	1,019	719	Q	137.9	94.1
Packaged Heat Pumps	Q	Q	49	Q	656	541	Q	Q	91.4
Split-System Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps	Q	Q	Q	Q	430	Q	Q	Q	Q
Furnaces	82	193	393	990	2,606	4,572	83.2	74.1	85.9
Individual Space Heaters	Q	166	207	1,011	1,775	2,544	95.1	93.7	81.5
District Heat	Q	Q	Q	Q	1,000	1,420	Q	Q	Q
Boilers	159	502	499	1,465	4,763	4,466	108.4	105.4	111.7
Packaged Heating Units	110	255	294	615	2,297	2,531	178.9	110.8	116.2
Other	Q	Q	41	Q	408	434	Q	Q	94.7
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	Q	190	209	291	2,100	2,040	Q	90.5	102.4
Heat Pumps	Q	141	71	Q	1,008	746	Q	140.0	95.7
Packaged Heat Pumps	Q	Q	53	Q	646	563	Q	Q	93.8
Split-System Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps	Q	Q	Q	Q	430	Q	Q	Q	Q
Individual Air Conditioners	105	247	225	925	2,762	2,199	113.0	89.5	102.2
District Chilled Water	Q	Q	Q	Q	583	569	Q	Q	Q
Central Chillers	Q	240	310	383	1,469	2,074	Q	163.7	149.7
Packaged Air Conditioning Units	140	517	604	872	5,128	5,505	160.9	100.8	109.8
Swamp Coolers	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	317	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	70	234	320	1,013	2,961	3,273	69.3	79.0	97.9
Cooling	143	392	421	1,100	4,353	3,700	130.0	90.0	113.8

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
Water Heating Equipment									
Centralized System	183	645	732	1,839	5,930	6,695	99.5	108.8	109.3
Distributed System	Q	142	167	Q	1,815	1,750	Q	78.2	95.3
Combination of Centralized and Distributed System	Q	141	221	375	1,319	1,763	Q	107.0	125.5
Lighting Equipment Types (more than one may apply)									
Incandescent	218	642	810	1,996	6,105	7,211	109.3	105.2	112.4
Standard Fluorescent	282	948	1,212	2,724	9,435	10,701	103.6	100.5	113.3
Compact Fluorescent	192	553	623	1,474	4,616	4,845	130.1	119.7	128.5
High Intensity Discharge	138	354	607	1,021	3,358	5,104	135.2	105.3	119.0
Halogen	107	323	412	769	2,812	3,259	139.4	114.8	126.3
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	270	866	1,063	2,474	8,367	9,538	108.9	103.5	111.4
Commercial Refrigeration	160	598	683	1,107	4,830	5,286	144.6	123.9	129.2
Walk-In Units	138	450	541	889	3,563	3,860	155.4	126.2	140.2
Cases or Cabinets	144	497	504	849	3,656	3,702	170.0	135.8	136.1
Residential-Type Units	216	603	748	2,037	6,251	7,247	106.2	96.5	103.2
Vending Machines	200	585	760	1,569	4,990	6,583	127.5	117.3	115.4
No Refrigeration	Q	112	191	490	1,574	2,056	Q	70.9	92.7
Office Equipment (more than one may apply)									
Computers	280	917	1,123	2,521	8,996	9,882	111.2	102.0	113.7
With Flat Screen Monitors	159	589	566	1,156	4,839	4,584	137.5	121.7	123.4
Dedicated Servers	202	707	754	1,656	6,486	6,456	121.9	109.1	116.8
Laser Printers	160	525	606	1,569	5,526	5,678	102.1	95.0	106.8
Inkjet Printers	151	567	663	1,204	5,211	5,817	125.7	108.8	114.0
FAX Machines	266	899	1,018	2,367	8,806	9,138	112.2	102.1	111.5
Photocopiers	230	821	914	1,869	8,024	8,273	122.9	102.4	110.5
Number of Computers									
None	13	60	130	443	945	1,712	29.5	63.9	76.0
1 to 4	62	121	245	570	1,511	2,536	108.9	80.0	96.7
5 to 9	Q	68	115	Q	1,087	1,112	Q	62.9	103.9
10 to 19	Q	82	118	329	992	1,069	Q	82.4	110.3
20 to 49	Q	110	118	322	1,182	1,196	Q	92.9	98.6
50 to 99	Q	84	95	Q	1,018	744	Q	Q	128.1
100 to 249	Q	136	142	Q	1,054	1,221	Q	128.7	115.9
250 or More	Q	316	290	439	2,151	2,005	Q	146.9	144.7
Number of Dedicated Servers									
None	92	270	500	1,308	3,455	5,139	70.0	78.2	97.2
1 to 4	109	409	433	1,028	4,219	4,202	106.2	96.8	103.1
5 to 9	Q	Q	93	Q	604	754	Q	Q	122.8
10 to 19	Q	Q	101	Q	437	647	Q	Q	156.2
20 to 49	Q	Q	Q	Q	411	Q	Q	Q	Q
50 or More	Q	Q	Q	Q	815	Q	Q	Q	Q

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
Number of Photocopiers									
None	64	156	339	1,095	1,917	3,322	58.3	81.4	102.1
One	52	179	242	683	2,344	2,620	76.1	76.5	92.2
2 to 4	89	187	269	643	2,302	2,745	137.9	81.4	98.1
5 to 9	Q	129	122	Q	1,250	1,013	Q	103.4	120.9
10 or More	Q	325	281	276	2,128	1,894	Q	152.9	148.2
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	98	520	564	938	4,078	4,378	104.4	127.4	128.7
Activities with Large Amounts of Hot Water	139	367	490	995	2,927	3,546	139.5	125.4	138.1
Separate Computer Area	158	605	558	1,045	4,880	4,759	151.0	124.0	117.3
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	Q	419	493	592	3,188	3,660	Q	131.5	134.8
Economizer Cycle	135	452	586	824	3,317	4,350	163.8	136.3	134.6
HVAC Maintenance	261	899	1,121	2,311	8,736	9,424	112.8	102.9	119.0
Energy Management and Control System (EMCS)	Q	350	356	429	2,573	2,835	Q	135.9	125.7
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	243	707	919	2,307	7,001	8,023	105.2	101.0	114.6
Tinted Window Glass	Q	495	663	803	4,155	5,393	165.4	119.2	123.0
Reflective Window Glass	Q	159	180	Q	1,436	1,454	Q	110.4	124.1
External Overhangs or Awnings	Q	237	294	577	2,110	2,537	Q	112.2	115.8
Skylights or Atriums	Q	255	287	476	2,416	2,338	Q	105.4	122.8
Daylighting Sensors	Q	Q	89	Q	319	608	Q	Q	146.7
Specular Reflectors	157	517	741	1,390	4,444	5,813	112.9	116.4	127.5
Electronic Ballasts	237	765	1,039	2,162	7,125	8,623	109.8	107.4	120.5
Energy Management and Control System (EMCS) For Lighting	Q	Q	131	Q	758	988	Q	Q	133.1

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	165	757	742	1,768	7,751	7,595	93.3	97.6	97.7
Cooling	160	723	738	1,456	7,356	7,147	109.8	98.3	103.2
Lighting	165	559	961	2,067	6,639	8,846	79.7	84.2	108.6
Office Equipment	74	280	363	847	3,422	3,645	88.0	81.8	99.5

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	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*	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
Building Floorspace (Square Feet)									
1,001 to 5,000	60	116	36	922	1,207	538	64.9	96.5	67.8
5,001 to 10,000	44	103	Q	722	1,387	393	60.5	74.0	Q
10,001 to 25,000	65	126	Q	1,164	2,240	810	55.9	56.4	Q
25,001 to 50,000	107	112	Q	949	1,672	498	112.5	67.3	Q
50,001 to 100,000	64	123	59	642	1,470	650	99.0	83.4	91.3
100,001 to 200,000	49	237	Q	614	2,087	Q	79.8	113.5	Q
200,001 to 500,000	Q	110	Q	395	1,072	Q	Q	102.2	Q
Over 500,000	Q	137	Q	Q	1,123	Q	Q	122.1	Q
Principal Building Activity									
Education	45	198	Q	552	2,445	341	81.0	80.9	Q
Food Sales	Q	Q	Q	Q	223	Q	Q	Q	Q
Food Service	Q	112	Q	206	433	99	Q	259.2	Q
Health Care	Q	120	Q	247	749	219	Q	160.1	Q
Inpatient	Q	Q	Q	Q	469	Q	Q	Q	Q
Outpatient	Q	Q	Q	Q	280	Q	Q	Q	Q
Lodging	55	91	Q	595	939	368	92.6	96.8	Q
Retail (Other Than Mall)	31	66	Q	337	897	353	93.6	73.4	Q
Office	62	155	50	799	1,958	481	77.6	79.3	103.2
Public Assembly	Q	42	Q	377	440	Q	Q	94.3	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	18	29	Q	395	721	310	46.2	39.6	Q
Service	31	Q	Q	514	753	307	61.3	73.5	Q
Warehouse and Storage	51	66	Q	994	1,836	390	51.0	35.7	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	252	Q	Q	Q	Q
Year Constructed									
Before 1920	39	Q	Q	553	Q	Q	70.2	Q	Q
1920 to 1945	Q	40	Q	496	650	300	Q	61.5	Q
1946 to 1959	39	88	Q	574	1,097	239	68.5	80.3	Q
1960 to 1969	71	98	Q	850	1,379	483	83.5	71.4	Q
1970 to 1979	87	152	64	1,039	1,464	789	83.3	103.6	80.7
1980 to 1989	41	221	Q	463	2,403	431	89.5	91.8	142.3
1990 to 1999	83	327	59	1,091	3,652	766	76.5	89.4	76.6
2000 to 2003	30	113	Q	420	1,272	342	72.6	89.0	Q
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	225	N	N	2,565	N	N	87.9	N	N
5,500-7,000 HDD	98	N	N	Q	N	N	74.1	N	N
4,000-5,499 HDD	113	264	Q	1,597	2,616	Q	70.5	100.8	112.6
Fewer than 4,000 HDD	N	564	Q	N	6,422	Q	N	87.8	77.6
2,000 CDD or More and --									
Fewer than 4,000 HDD	N	237	Q	N	3,220	Q	N	73.5	99.5
Number of Floors									
One	149	370	102	2,227	5,753	1,641	66.9	64.3	62.1
Two	146	215	104	1,926	2,700	864	76.0	79.7	120.8
Three	64	99	Q	703	1,043	442	91.6	95.0	Q
Four to Nine	69	284	58	579	2,003	355	118.4	142.0	163.0
Ten or More	Q	95	Q	Q	759	Q	Q	125.3	Q

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	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*	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
Elevators and Escalators (more than one may apply)									
Any Elevators	169	549	134	1,627	4,612	923	104.1	119.1	145.0
Number of Elevators									
One	79	115	Q	860	1,475	369	91.5	78.0	Q
Two to Five	64	246	Q	644	1,900	386	98.6	129.6	Q
Six or More	Q	188	Q	Q	1,237	168	Q	152.0	Q
Any Escalators	Q	Q	Q	Q	Q	Q	Q	Q	Q
Number of Workers (main shift)									
Fewer than 5	77	115	40	1,763	2,517	1,107	43.9	45.7	35.8
5 to 9	46	75	36	598	1,284	476	76.5	58.5	74.8
10 to 19	60	97	24	867	1,392	350	69.6	69.9	69.1
20 to 49	99	152	97	876	1,773	701	113.6	86.0	138.6
50 to 99	73	128	Q	742	1,611	Q	98.3	79.7	Q
100 to 249	Q	239	Q	397	1,737	Q	Q	137.8	Q
250 or More	Q	256	Q	242	1,943	Q	Q	131.9	Q
Weekly Operating Hours									
Fewer than 40	18	41	9	700	1,211	416	26.4	34.0	22.5
40 to 48	55	126	61	1,036	2,109	770	53.1	59.5	78.6
49 to 60	100	165	Q	1,273	3,074	610	78.2	53.7	92.7
61 to 84	72	171	57	845	1,926	600	84.9	88.6	94.2
85 to 167	Q	197	Q	558	1,402	Q	Q	140.8	Q
Open Continuously	122	364	108	1,073	2,536	823	114.0	143.6	131.2
Ownership and Occupancy									
Nongovernment Owned	344	748	200	4,455	9,049	2,453	77.2	82.6	81.7
Owner Occupied	187	365	72	2,416	4,141	967	77.4	88.1	74.2
Nonowner Occupied	156	378	128	1,942	4,678	1,450	80.4	80.8	88.5
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	92	316	109	1,030	3,209	940	89.5	98.5	115.8
Federal	Q	Q	Q	Q	Q	Q	Q	126.6	Q
State	Q	96	Q	Q	726	507	Q	132.9	Q
Local	50	168	28	726	2,078	376	68.4	81.0	75.2
Vacancy Status									
Completely Vacant	Q	Q	Q	Q	241	Q	Q	Q	Q
Mostly Vacant	Q	Q	N	Q	Q	Q	Q	Q	N
Partially Vacant	62	137	26	864	1,980	397	71.5	69.3	64.8
Not At All Vacant	366	920	283	4,427	10,026	2,898	82.7	91.8	97.7
Number of Establishments									
One	310	752	223	4,044	8,902	2,707	76.7	84.5	82.4
2 to 5	89	193	Q	970	2,139	385	91.3	90.1	Q
6 to 10	Q	Q	Q	Q	Q	Q	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	Q	320	Q	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	241	Q	Q	Q	Q

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	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*	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
Predominant Exterior Wall Material									
Brick, Stone or Stucco	192	514	177	2,082	6,051	1,824	92.4	84.9	97.1
Concrete (Block or Poured)	108	190	73	1,002	2,371	641	108.2	80.1	113.5
Concrete Panels	Q	189	Q	375	1,416	Q	Q	133.6	Q
Siding or Shingles	35	41	Q	711	649	Q	49.7	62.6	Q
Metal Panels	50	97	Q	1,229	1,450	616	40.4	66.6	Q
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	N	Q	Q	N	Q	Q	N
Predominant Roof Material									
Built-Up	137	373	119	1,349	4,125	827	101.8	90.4	143.5
Shingles (Not Wood)	72	132	48	1,129	1,889	638	64.1	69.7	75.1
Metal Surfacing	75	137	60	1,616	2,557	1,116	46.7	53.7	53.9
Synthetic or Rubber	115	292	70	990	2,449	643	116.3	119.2	108.5
Slate or Tile	Q	47	Q	Q	624	Q	Q	74.8	Q
Wooden Materials	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete	Q	Q	N	Q	Q	N	Q	Q	N
Other	Q	Q	N	Q	Q	N	Q	Q	N
No One Major Type	Q	Q	N	Q	Q	N	Q	Q	N
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	169	231	85	1,945	2,304	884	87.1	100.3	96.6
Addition or Annex	85	91	46	727	884	392	116.7	102.9	118.3
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	124	141	70	1,525	1,497	677	81.1	94.4	103.5
Wall or Roof Replacement	73	100	36	871	961	340	83.8	103.6	105.7
Interior Wall Re-Configuration	75	107	Q	877	1,036	334	85.0	103.7	Q
HVAC Equipment Upgrade	112	161	63	1,197	1,559	464	93.3	103.1	135.6
Lighting Upgrade	97	111	60	1,074	1,186	440	90.7	93.5	137.3
Window Replacement	40	43	Q	508	505	Q	78.7	85.5	Q
Plumbing System Upgrade	61	79	Q	721	782	262	84.0	101.6	Q
Insulation Upgrade	44	Q	Q	512	468	Q	86.6	Q	Q
Other Renovation	N	Q	Q	N	Q	Q	N	Q	Q
No Renovations Since 1980	111	172	77	1,566	2,626	971	71.1	65.7	78.8
Building Newer than 1980	155	660	147	1,974	7,327	1,538	78.7	90.1	95.8
Energy Sources (more than one may apply)									
Electricity	436	1,064	309	5,328	12,097	3,220	81.9	88.0	96.0
Natural Gas	350	693	241	3,593	6,326	2,281	97.4	109.6	105.6
Fuel Oil	112	291	Q	961	2,639	341	116.4	110.3	Q
District Heat	Q	220	Q	Q	1,243	Q	Q	177.4	Q
District Chilled Water	Q	115	Q	Q	667	Q	Q	172.3	Q
Propane	48	116	Q	991	1,548	265	48.2	75.1	39.4
Other	Q	Q	Q	222	Q	Q	Q	Q	Q

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	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*	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
Space-Heating Energy Sources (more than one may apply)									
Electricity	185	598	113	2,328	7,347	1,411	79.7	81.4	80.1
Natural Gas	327	504	223	3,422	4,852	2,110	95.7	103.8	105.7
Fuel Oil	Q	59	Q	460	627	Q	Q	93.5	Q
District Heat	Q	214	Q	Q	1,173	Q	Q	182.7	Q
Propane	23	64	Q	695	908	Q	33.3	70.9	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Primary Space-Heating Energy Source									
Electricity	70	334	61	1,058	4,968	791	65.7	67.2	77.2
Natural Gas	289	445	182	3,091	4,175	1,817	93.3	106.7	100.0
Fuel Oil	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Heat	Q	210	Q	Q	1,149	Q	Q	182.9	Q
Propane	Q	Q	Q	496	456	Q	29.7	39.7	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling Energy Sources (more than one may apply)									
Electricity	404	965	270	4,625	10,969	2,820	87.4	88.0	95.7
Natural Gas	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Chilled Water	Q	115	Q	Q	667	Q	Q	172.3	Q
Water-Heating Energy Sources (more than one may apply)									
Electricity	190	558	140	2,391	7,033	1,581	79.6	79.3	88.9
Natural Gas	233	476	189	2,382	3,649	1,456	98.0	130.5	130.0
Fuel Oil	Q	Q	N	Q	Q	N	Q	Q	N
District Heat	Q	123	Q	Q	730	Q	Q	168.9	Q
Propane	Q	Q	Q	362	391	Q	Q	Q	Q
Cooking Energy Sources (more than one may apply)									
Electricity	97	322	76	850	2,611	665	114.4	123.3	114.3
Natural Gas	123	405	109	913	2,741	786	134.8	147.7	138.2
Propane	Q	Q	Q	Q	374	Q	Q	Q	Q
Energy End Uses (more than one may apply)									
Buildings with Space Heating	435	1,031	306	5,108	11,012	3,056	85.2	93.7	100.1
Buildings with Cooling	411	1,052	306	4,694	11,474	2,985	87.5	91.7	102.4
Buildings with Water Heating	417	1,026	300	4,720	10,714	2,858	88.4	95.8	105.0
Buildings with Cooking	167	514	129	1,472	4,198	1,055	113.4	122.5	122.3
Buildings with Manufacturing	Q	Q	Q	Q	296	Q	Q	Q	Q
Buildings with Electricity Generation	100	280	Q	760	2,396	324	132.1	117.0	Q
Percent of Floorspace Heated									
Not Heated	Q	33	Q	377	1,246	337	Q	26.1	Q
1 to 50	11	71	Q	356	1,105	353	31.6	64.3	Q
51 to 99	39	143	34	513	1,864	309	75.7	76.9	108.4
100	385	817	252	4,239	8,043	2,394	90.8	101.6	105.2

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	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*	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
Percent of Floorspace Cooled									
Not Cooled	25	12	Q	791	784	408	32.1	15.7	Q
1 to 50	100	125	Q	1,571	2,418	472	63.5	51.6	Q
51 to 99	131	230	53	1,325	2,624	459	98.5	87.6	115.2
100	180	697	229	1,797	6,431	2,054	100.4	108.4	111.6
Percent Lit When Open									
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	62	56	25	1,178	1,313	505	52.9	43.0	49.4
51 to 99	137	294	84	1,658	3,293	913	82.8	89.3	91.6
100	233	704	200	2,362	7,210	1,730	98.8	97.6	115.7
Building Never Open/ Electricity Not Used	Q	Q	Q	281	363	Q	Q	Q	Q
Percent Lit When Closed									
Zero	113	206	29	1,936	3,431	623	58.4	60.0	46.4
1 to 50	184	443	161	2,192	5,687	1,682	84.1	77.9	95.8
51 to 100	Q	Q	Q	Q	491	Q	Q	Q	Q
Building Never Closed/ Electricity Not Used	122	364	108	1,197	2,649	942	102.2	137.5	114.7
Heating Equipment (more than one may apply)									
Heat Pumps	29	297	48	339	3,677	542	84.5	80.8	89.4
Packaged Heat Pumps	Q	199	Q	Q	2,145	246	Q	92.6	Q
Split-System Heat Pumps	Q	103	Q	Q	1,459	214	Q	70.5	Q
Individual Room Heat Pumps	Q	79	Q	Q	1,039	Q	Q	76.1	Q
Furnaces	203	188	53	2,657	2,772	895	76.5	67.8	59.0
Individual Space Heaters	132	183	37	1,625	2,148	563	81.3	85.4	66.6
District Heat	Q	214	Q	Q	1,173	Q	Q	182.7	Q
Boilers	157	265	134	1,675	2,135	786	93.6	124.0	170.1
Packaged Heating Units	107	372	106	1,135	3,917	1,215	94.3	94.8	87.2
Other	33	51	Q	386	905	Q	86.1	56.8	Q
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	134	147	36	1,568	1,843	489	85.1	79.6	72.8
Heat Pumps	28	307	54	317	3,742	586	88.3	82.0	92.6
Packaged Heat Pumps	Q	195	Q	Q	2,104	294	Q	92.5	87.4
Split-System Heat Pumps	Q	108	Q	Q	1,494	225	Q	72.3	Q
Individual Room Heat Pumps	Q	86	Q	Q	1,079	Q	Q	80.1	Q
Individual Air Conditioners	96	184	42	1,289	2,218	610	74.1	83.0	68.9
District Chilled Water	Q	115	Q	Q	667	Q	Q	172.3	Q
Central Chillers	93	319	87	768	2,489	594	121.7	128.3	146.8
Packaged Air Conditioning Units	247	478	151	2,581	5,520	1,555	95.6	86.5	97.3
Swamp Coolers	N	Q	Q	N	Q	Q	N	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	141	179	76	1,754	2,253	886	80.4	79.5	85.3
Cooling	176	247	108	2,052	3,111	1,059	85.7	79.2	102.3

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	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*	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
Water Heating Equipment									
Centralized System	268	539	190	3,029	5,649	1,890	88.4	95.3	100.4
Distributed System	61	174	38	920	2,432	469	66.1	71.5	80.6
Combination of Centralized and Distributed System	89	314	73	771	2,633	499	114.9	119.1	145.4
Lighting Equipment Types (more than one may apply)									
Incandescent	321	743	198	3,762	7,028	1,984	85.4	105.7	99.7
Standard Fluorescent	425	1,028	301	5,006	11,245	3,022	84.8	91.4	99.6
Compact Fluorescent	214	579	186	1,983	4,856	1,262	108.1	119.3	147.4
High Intensity Discharge	140	421	74	1,515	4,053	706	92.6	104.0	104.6
Halogen	161	430	68	1,402	3,474	620	115.0	123.9	109.7
Other	N	Q	Q	N	Q	Q	N	Q	Q
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	393	1,003	295	4,544	10,256	2,829	86.5	97.8	104.4
Commercial Refrigeration	200	686	165	1,835	5,426	1,145	109.1	126.4	144.4
Walk-In Units	160	606	150	1,341	4,324	862	119.5	140.1	174.0
Cases or Cabinets	150	550	140	1,276	4,246	993	117.9	129.5	140.5
Residential-Type Units	277	603	165	3,545	7,043	1,834	78.2	85.7	90.1
Vending Machines	264	743	222	2,817	7,066	2,056	93.6	105.1	107.9
No Refrigeration	43	61	Q	941	2,002	565	45.9	30.7	Q
Office Equipment (more than one may apply)									
Computers	403	966	293	4,533	10,483	2,724	88.8	92.1	107.6
With Flat Screen Monitors	184	519	176	1,762	4,768	1,314	104.6	108.8	134.1
Dedicated Servers	274	684	200	2,796	6,839	1,606	97.9	99.9	124.7
Laser Printers	228	525	163	2,784	6,059	1,813	81.9	86.7	89.9
Inkjet Printers	251	619	181	2,489	6,138	1,502	101.0	100.8	120.3
FAX Machines	373	948	278	4,157	9,973	2,551	89.7	95.1	108.8
Photocopiers	322	831	241	3,586	8,821	2,211	89.7	94.2	109.1
Number of Computers									
None	34	98	16	952	1,775	669	35.3	55.5	23.8
1 to 4	81	175	63	1,207	2,124	807	67.5	82.4	78.2
5 to 9	78	71	35	826	1,154	520	94.4	61.5	67.7
10 to 19	50	78	Q	621	1,321	Q	80.8	59.3	Q
20 to 49	68	119	68	736	1,207	437	91.8	98.3	154.6
50 to 99	Q	118	Q	305	1,265	Q	Q	93.4	Q
100 to 249	56	140	Q	630	1,353	Q	89.0	103.4	Q
250 or More	Q	264	Q	208	2,059	Q	Q	128.4	Q
Number of Dedicated Servers									
None	162	380	109	2,689	5,419	1,788	60.4	70.2	61.0
1 to 4	217	363	159	2,366	4,155	1,272	91.9	87.4	124.8
5 to 9	Q	103	Q	212	966	Q	Q	106.2	Q
10 to 19	Q	121	Q	Q	837	Q	Q	145.0	Q
20 to 49	Q	Q	Q	Q	524	Q	Q	Q	Q
50 or More	Q	Q	Q	Q	Q	Q	Q	96.6	Q

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	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*	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
Number of Photocopiers									
None	114	233	68	1,899	3,437	1,182	60.3	67.7	57.5
One	125	179	63	1,615	2,611	1,016	77.2	68.7	61.6
2 to 4	115	262	102	1,281	3,060	659	89.8	85.8	154.2
5 to 9	Q	119	Q	388	1,124	Q	Q	105.8	Q
10 or More	42	270	44	302	2,026	284	139.8	133.5	155.2
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	167	514	129	1,472	4,196	1,055	113.4	122.6	122.3
Activities with Large Amounts of Hot Water	193	518	115	1,678	4,178	949	115.2	124.1	121.6
Separate Computer Area	173	532	121	1,723	5,236	1,028	100.5	101.6	117.9
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	155	447	120	1,342	3,818	788	115.5	117.2	152.4
Economizer Cycle	166	476	105	1,533	3,815	828	108.5	124.7	126.7
HVAC Maintenance	336	959	261	3,704	9,547	2,258	90.7	100.4	115.5
Energy Management and Control System (EMCS)	103	331	80	965	3,426	542	107.2	96.6	148.5
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	333	696	180	3,738	7,191	1,685	89.2	96.7	107.1
Tinted Window Glass	179	644	129	1,925	6,498	1,169	93.1	99.1	110.1
Reflective Window Glass	69	167	56	711	1,655	257	97.0	100.8	216.5
External Overhangs or Awnings	148	367	111	1,688	3,814	1,022	87.4	96.3	108.4
Skylights or Atriums	93	173	43	929	1,831	434	100.2	94.4	99.4
Daylighting Sensors	Q	Q	Q	Q	448	Q	Q	Q	Q
Specular Reflectors	190	499	74	1,896	4,553	785	100.0	109.6	94.0
Electronic Ballasts	364	869	238	3,987	8,835	2,177	91.4	98.4	109.2
Energy Management and Control System (EMCS) For Lighting	Q	70	Q	Q	810	Q	Q	85.9	Q

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	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*	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	267	617	203	3,314	7,843	2,124	80.5	78.7	95.7
Cooling	265	684	214	3,323	8,678	2,175	79.6	78.9	98.2
Lighting	298	668	194	4,037	9,061	2,340	73.9	73.7	83.0
Office Equipment	134	234	59	1,767	3,468	703	75.7	67.4	83.3

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
Building Floorspace (Square Feet)									
1,001 to 5,000	87	44	64	788	464	871	110.9	94.7	73.0
5,001 to 10,000	60	36	76	879	418	820	68.2	86.7	92.9
10,001 to 25,000	53	76	73	1,329	831	1,256	40.2	91.7	58.4
25,001 to 50,000	64	49	65	998	511	1,132	63.9	96.5	57.2
50,001 to 100,000	73	29	60	1,314	374	948	55.7	77.6	63.6
100,001 to 200,000	90	Q	66	1,131	Q	895	79.5	Q	73.8
200,001 to 500,000	54	Q	65	664	339	947	81.6	Q	69.0
Over 500,000	Q	Q	Q	Q	Q	766	Q	Q	Q
Principal Building Activity									
Education	74	53	76	1,198	640	1,027	61.4	82.9	74.3
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	Q	Q	Q	232	Q	232	Q	Q	Q
Health Care	59	Q	57	309	230	323	192.3	Q	177.7
Inpatient	Q	Q	Q	235	Q	176	Q	Q	Q
Outpatient	Q	Q	Q	Q	Q	147	Q	Q	Q
Lodging	Q	Q	47	387	438	649	Q	Q	71.8
Retail (Other Than Mall)	39	Q	40	594	210	753	66.3	Q	52.8
Office	124	58	117	1,343	629	1,796	92.3	91.9	65.1
Public Assembly	Q	Q	Q	498	Q	468	Q	Q	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	20	Q	Q	467	Q	341	42.1	Q	Q
Service	Q	Q	Q	298	345	319	Q	Q	Q
Warehouse and Storage	30	Q	25	1,740	506	1,066	17.5	Q	23.3
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	350	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	Q	Q	Q	Q	Q	Q	Q	Q	Q
1920 to 1945	Q	Q	46	398	Q	783	Q	Q	59.2
1946 to 1959	31	25	48	460	255	873	66.8	98.4	55.5
1960 to 1969	45	60	60	675	592	1,005	66.6	101.5	60.0
1970 to 1979	104	105	85	1,473	924	1,162	70.8	113.3	73.5
1980 to 1989	167	Q	128	1,934	700	1,541	86.4	128.5	83.2
1990 to 1999	139	55	115	1,823	627	1,377	76.2	88.4	83.3
2000 to 2003	57	Q	36	943	307	731	60.0	Q	48.9
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	N	209	Q	N	2,108	Q	N	99.2	92.5
5,500-7,000 HDD	N	121	77	N	1,090	979	N	110.8	78.2
4,000-5,499 HDD	Q	N	Q	Q	N	693	Q	N	94.0
Fewer than 4,000 HDD	171	N	329	1,992	N	5,401	85.7	N	60.9
2,000 CDD or More and --									
Fewer than 4,000 HDD	379	52	Q	5,385	476	Q	70.4	108.1	Q
Number of Floors									
One	264	160	205	4,362	1,871	3,098	60.6	85.5	66.1
Two	81	96	131	1,381	990	2,128	58.9	96.5	61.6
Three	Q	Q	42	453	181	715	Q	Q	59.4
Four to Nine	93	48	105	736	338	990	Q	141.1	106.4
Ten or More	Q	Q	Q	904	Q	704	Q	Q	Q

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
Elevators and Escalators (more than one may apply)									
Any Elevators	255	144	228	2,414	1,069	2,785	105.5	134.9	81.8
Number of Elevators									
One	37	33	44	631	414	662	59.0	79.2	66.4
Two to Five	91	Q	92	808	275	1,085	Q	Q	84.4
Six or More	126	Q	92	975	Q	1,039	129.6	Q	88.8
Any Escalators	Q	Q	Q	Q	Q	Q	Q	Q	Q
Number of Workers (main shift)									
Fewer than 5	56	53	59	2,046	766	1,723	27.4	69.6	34.5
5 to 9	58	29	51	835	345	678	69.9	84.8	74.6
10 to 19	78	42	42	999	428	681	77.7	98.8	61.3
20 to 49	116	59	107	1,408	645	1,291	82.5	92.1	83.1
50 to 99	68	53	60	840	558	812	81.5	94.6	74.2
100 to 249	42	Q	84	451	311	1,086	93.5	Q	77.2
250 or More	156	Q	126	1,259	622	1,364	124.2	172.1	92.7
Weekly Operating Hours									
Fewer than 40	18	Q	25	918	291	804	19.2	Q	31.5
40 to 48	71	60	57	1,688	783	1,378	41.9	76.4	41.2
49 to 60	126	55	108	1,872	712	1,744	67.3	77.2	62.2
61 to 84	101	55	95	1,228	592	1,358	82.6	93.2	69.6
85 to 167	104	Q	81	882	357	950	118.3	Q	85.2
Open Continuously	155	155	164	1,250	940	1,401	124.2	164.7	116.8
Ownership and Occupancy									
Nongovernment Owned	459	268	392	6,325	2,611	6,125	72.6	102.5	64.0
Owner Occupied	190	86	179	2,761	976	2,672	68.9	88.1	67.1
Nonowner Occupied	268	181	211	3,230	1,624	3,189	83.0	111.6	66.1
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	116	114	138	1,512	1,064	1,510	76.6	107.2	91.2
Federal	Q	Q	Q	Q	Q	Q	Q	Q	Q
State	Q	Q	63	Q	Q	565	Q	Q	111.2
Local	59	65	56	969	681	864	60.5	95.3	64.3
Vacancy Status									
Completely Vacant	Q	Q	Q	346	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	139	74	90	1,685	750	1,335	82.6	99.0	67.5
Not At All Vacant	435	306	435	5,802	2,882	5,978	75.0	106.2	72.7
Number of Establishments									
One	399	308	381	5,339	2,794	4,982	74.8	110.1	76.6
2 to 5	78	45	88	1,217	538	1,362	63.9	83.5	64.7
6 to 10	Q	Q	Q	Q	Q	211	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	639	Q	547	Q	Q	Q
Currently Unoccupied	Q	Q	Q	346	Q	Q	Q	Q	Q

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
Predominant Exterior Wall Material									
Brick, Stone or Stucco	318	149	253	3,699	1,551	3,195	85.9	96.2	79.3
Concrete (Block or Poured)	80	55	102	973	462	1,315	82.1	118.4	77.4
Concrete Panels	85	Q	59	1,216	695	1,277	70.3	135.7	46.1
Siding or Shingles	23	16	41	281	Q	461	81.5	68.3	88.0
Metal Panels	41	54	45	1,360	634	918	30.4	85.1	48.9
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material									
Built-Up	215	176	202	2,479	1,421	2,990	86.8	123.7	67.6
Shingles (Not Wood)	56	42	79	797	475	1,174	70.3	89.5	67.4
Metal Surfacing	93	67	55	2,635	944	1,001	35.3	70.7	54.4
Synthetic or Rubber	153	74	110	1,206	664	1,209	126.6	111.9	91.4
Slate or Tile	Q	Q	38	279	Q	552	Q	Q	69.7
Wooden Materials	Q	Q	Q	Q	Q	212	Q	Q	Q
Concrete	Q	Q	Q	Q	Q	353	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	N	Q	Q	N	Q	Q	N	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	99	124	123	1,273	1,095	1,746	78.0	113.6	70.7
Addition or Annex	Q	71	39	529	551	428	Q	128.5	90.9
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	73	86	102	931	718	1,465	78.7	119.5	69.5
Wall or Roof Replacement	Q	59	56	562	504	789	Q	117.4	71.3
Interior Wall Re-Configuration	46	83	68	566	637	870	81.3	129.9	78.1
HVAC Equipment Upgrade	54	92	79	561	776	1,049	96.3	118.9	75.6
Lighting Upgrade	43	87	81	466	733	1,042	93.2	119.1	77.8
Window Replacement	Q	35	41	266	332	510	Q	106.0	80.9
Plumbing System Upgrade	Q	63	61	323	517	852	Q	122.3	71.7
Insulation Upgrade	Q	Q	Q	231	Q	411	Q	Q	Q
Other Renovation	N	Q	Q	N	Q	Q	N	Q	Q
No Renovations Since 1980	113	91	127	1,864	945	2,240	60.8	96.5	56.9
Building Newer than 1980	363	166	279	4,700	1,634	3,649	77.2	101.5	76.4
Energy Sources (more than one may apply)									
Electricity	575	381	530	7,449	3,633	7,397	77.2	105.0	71.6
Natural Gas	455	330	396	4,704	2,797	5,016	96.8	118.0	78.9
Fuel Oil	143	Q	141	1,141	626	1,497	125.1	Q	94.5
District Heat	Q	Q	Q	Q	253	413	Q	Q	Q
District Chilled Water	Q	Q	Q	284	Q	300	Q	Q	Q
Propane	Q	Q	73	547	555	618	Q	97.8	117.6
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
Space-Heating Energy Sources (more than one may apply)									
Electricity	302	143	226	4,300	1,389	3,526	70.2	102.7	64.2
Natural Gas	355	291	304	3,731	2,547	4,301	95.2	114.2	70.8
Fuel Oil	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Heat	Q	Q	Q	Q	253	362	Q	Q	Q
Propane	Q	Q	Q	Q	245	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Primary Space-Heating Energy Source									
Electricity	201	57	132	3,325	789	2,325	60.5	72.6	56.7
Natural Gas	323	269	272	3,308	2,277	3,633	97.8	117.9	74.9
Fuel Oil	N	Q	Q	N	Q	Q	N	Q	Q
District Heat	Q	Q	Q	Q	Q	362	Q	Q	Q
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	N	Q	Q	N	Q	Q	N	Q	Q
Cooling Energy Sources (more than one may apply)									
Electricity	532	344	449	6,834	3,186	6,328	77.9	107.9	70.9
Natural Gas	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Chilled Water	Q	Q	Q	284	Q	300	Q	Q	Q
Water-Heating Energy Sources (more than one may apply)									
Electricity	211	94	174	3,267	1,236	2,771	64.4	76.1	62.7
Natural Gas	340	287	311	3,201	2,276	3,838	106.2	126.0	81.0
Fuel Oil	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Heat	Q	Q	Q	Q	Q	338	Q	Q	Q
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooking Energy Sources (more than one may apply)									
Electricity	200	Q	104	1,623	791	1,192	123.5	142.5	87.2
Natural Gas	261	123	180	1,953	796	1,616	133.4	154.3	111.7
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy End Uses (more than one may apply)									
Buildings with Space Heating	563	370	489	6,929	3,525	6,577	81.3	104.9	74.3
Buildings with Cooling	569	358	499	7,094	3,267	6,683	80.3	109.6	74.7
Buildings with Water Heating	543	373	507	6,341	3,422	6,426	85.6	108.8	78.8
Buildings with Cooking	324	156	241	2,628	1,209	2,280	123.1	129.4	105.6
Buildings with Manufacturing	Q	Q	Q	Q	Q	412	Q	Q	Q
Buildings with Electricity Generation	159	Q	138	1,297	738	1,504	122.9	157.0	91.7
Percent of Floorspace Heated									
Not Heated	Q	Q	41	908	Q	1,057	Q	Q	38.6
1 to 50	29	Q	51	1,384	Q	1,257	21.0	Q	40.7
51 to 99	76	70	97	718	569	1,381	105.9	123.7	70.1
100	458	286	341	4,828	2,721	3,940	94.9	105.0	86.5

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
All Buildings*	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
Percent of Floorspace Cooled									
Not Cooled	Q	24	31	744	407	952	Q	57.8	32.3
1 to 50	59	82	76	2,025	918	1,738	29.3	89.3	43.5
51 to 99	95	93	130	820	886	1,559	116.2	104.4	83.6
100	415	183	293	4,249	1,463	3,386	97.6	125.4	86.5
Percent Lit When Open									
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	51	27	45	1,371	382	1,130	37.5	70.8	39.5
51 to 99	137	117	165	1,928	1,095	2,161	70.9	106.7	76.4
100	384	237	315	3,933	2,136	3,947	97.7	111.1	79.9
Building Never Open/ Electricity Not Used	Q	Q	Q	553	Q	Q	Q	Q	Q
Percent Lit When Closed									
Zero	98	76	100	2,239	1,118	1,994	43.9	68.0	50.0
1 to 50	290	146	254	3,658	1,526	3,823	79.4	95.5	66.3
51 to 100	Q	Q	Q	374	Q	180	Q	Q	Q
Building Never Closed/ Electricity Not Used	155	155	164	1,565	973	1,638	99.2	159.0	99.9
Heating Equipment (more than one may apply)									
Heat Pumps	49	Q	77	722	333	1,268	68.3	Q	60.8
Packaged Heat Pumps	Q	Q	42	537	Q	741	Q	Q	57.0
Split-System Heat Pumps	Q	Q	24	Q	Q	305	Q	Q	77.6
Individual Room Heat Pumps	Q	Q	Q	Q	Q	431	Q	Q	Q
Furnaces	156	102	123	2,048	1,302	1,773	76.1	78.2	69.4
Individual Space Heaters	55	62	84	898	692	1,290	61.4	89.1	65.3
District Heat	Q	Q	Q	Q	253	362	Q	Q	Q
Boilers	161	182	186	1,472	1,359	2,302	109.4	133.7	80.9
Packaged Heating Units	245	77	164	2,998	748	2,564	81.6	102.8	63.9
Other	Q	Q	Q	399	347	Q	Q	Q	Q
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	72	31	58	1,523	341	841	47.5	91.7	69.5
Heat Pumps	Q	Q	79	595	430	1,355	Q	Q	58.2
Packaged Heat Pumps	Q	Q	41	451	Q	742	Q	Q	55.1
Split-System Heat Pumps	Q	Q	Q	Q	Q	322	Q	Q	Q
Individual Room Heat Pumps	Q	Q	31	Q	Q	546	Q	Q	57.3
Individual Air Conditioners	45	76	60	806	730	1,019	56.3	104.2	58.8
District Chilled Water	Q	Q	Q	284	Q	300	Q	Q	Q
Central Chillers	194	Q	134	1,771	621	1,466	109.5	159.2	91.5
Packaged Air Conditioning Units	268	191	266	3,325	1,655	3,826	80.6	115.2	69.6
Swamp Coolers	Q	85	50	Q	874	468	Q	96.9	105.9
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	115	135	97	1,675	1,133	1,455	68.7	118.7	67.0
Cooling	167	161	135	2,245	1,356	2,018	74.4	118.5	66.7

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
Water Heating Equipment									
Centralized System	366	194	316	3,998	1,928	3,712	91.6	100.4	85.2
Distributed System	100	47	70	1,664	566	1,415	60.2	82.5	49.5
Combination of Centralized and Distributed System	76	132	120	679	928	1,299	112.4	142.4	92.5
Lighting Equipment Types (more than one may apply)									
Incandescent	379	274	330	4,033	2,443	3,965	94.0	112.3	83.2
Standard Fluorescent	557	376	515	6,955	3,534	7,066	80.0	106.5	72.9
Compact Fluorescent	305	211	345	2,764	1,748	4,024	110.5	120.9	85.6
High Intensity Discharge	125	101	181	1,470	977	2,438	84.9	103.1	74.3
Halogen	177	124	179	2,099	993	2,275	84.2	125.1	78.8
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	520	335	469	6,018	3,028	5,919	86.4	110.8	79.2
Commercial Refrigeration	374	193	276	3,067	1,398	2,674	121.9	137.8	103.4
Walk-In Units	317	162	242	2,284	1,073	2,059	138.7	151.3	117.4
Cases or Cabinets	316	164	238	2,425	1,093	2,185	130.4	149.6	109.1
Residential-Type Units	334	216	303	4,285	2,232	4,410	77.9	97.0	68.6
Vending Machines	381	256	311	4,412	2,058	3,783	86.2	124.2	82.2
No Refrigeration	55	46	61	1,819	647	1,715	30.3	71.2	35.6
Office Equipment (more than one may apply)									
Computers	535	357	501	6,507	3,282	6,698	82.2	108.8	74.8
With Flat Screen Monitors	310	173	289	3,053	1,365	3,575	101.6	127.1	80.9
Dedicated Servers	359	228	353	4,204	1,959	4,335	85.3	116.6	81.3
Laser Printers	278	227	297	3,694	2,165	3,723	75.2	105.0	79.6
Inkjet Printers	354	212	304	3,840	1,901	4,108	92.1	111.5	74.1
FAX Machines	521	333	456	6,258	2,983	6,140	83.2	111.5	74.3
Photocopiers	407	303	396	5,281	2,753	5,439	77.0	110.1	72.8
Number of Computers									
None	40	24	28	1,330	393	937	30.3	61.8	30.2
1 to 4	125	64	79	1,488	707	1,444	83.9	90.0	54.7
5 to 9	46	49	63	864	450	649	53.1	109.5	96.8
10 to 19	49	37	53	910	371	825	53.6	99.2	64.3
20 to 49	63	45	81	780	548	1,006	81.3	81.5	80.8
50 to 99	43	Q	47	490	285	784	87.3	Q	59.4
100 to 249	55	56	65	660	448	869	83.2	124.9	75.0
250 or More	154	Q	114	1,315	473	1,122	117.4	Q	101.2
Number of Dedicated Servers									
None	217	153	177	3,633	1,716	3,299	59.6	89.3	53.7
1 to 4	193	140	210	2,782	1,428	2,665	69.4	98.2	78.9
5 to 9	Q	Q	54	Q	Q	601	Q	Q	89.5
10 to 19	Q	Q	37	Q	Q	414	Q	Q	90.3
20 to 49	Q	Q	Q	Q	Q	Q	Q	Q	Q
50 or More	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
Number of Photocopiers									
None	168	78	134	2,557	921	2,196	65.8	84.9	60.9
One	98	84	108	1,833	995	1,757	53.4	84.6	61.6
2 to 4	118	81	112	1,799	887	1,706	65.3	90.9	65.5
5 to 9	Q	Q	58	405	Q	634	Q	Q	91.4
10 or More	146	121	118	1,243	690	1,341	117.7	174.6	88.0
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	324	156	239	2,628	1,209	2,269	123.1	129.4	105.4
Activities with Large Amounts of Hot Water	222	182	239	1,776	1,384	2,048	124.9	131.3	116.8
Separate Computer Area	290	196	262	3,132	1,607	3,462	92.5	121.9	75.6
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	277	155	208	2,743	1,236	2,232	101.1	125.1	93.0
Economizer Cycle	232	184	252	1,988	1,383	3,069	116.9	133.1	82.2
HVAC Maintenance	512	333	488	5,836	3,065	6,282	87.7	108.8	77.8
Energy Management and Control System (EMCS)	197	117	178	1,834	857	2,170	107.6	136.6	82.0
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	321	289	240	3,429	2,656	2,880	93.7	108.9	83.4
Tinted Window Glass	356	218	280	4,283	1,617	4,043	83.1	134.9	69.3
Reflective Window Glass	118	41	99	1,098	489	1,219	107.0	83.3	80.8
External Overhangs or Awnings	191	171	158	1,950	1,521	2,025	97.7	112.4	78.2
Skylights or Atriums	163	132	115	1,656	1,001	1,465	98.5	131.6	78.8
Daylighting Sensors	Q	Q	79	Q	Q	674	Q	Q	117.9
Specular Reflectors	239	176	236	2,533	1,307	3,396	94.2	134.5	69.4
Electronic Ballasts	472	331	430	5,446	2,905	5,621	86.7	113.9	76.5
Energy Management and Control System (EMCS) For Lighting	Q	Q	87	629	Q	923	Q	Q	94.8

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	376	261	352	4,688	2,456	5,183	80.3	106.4	67.9
Cooling	411	269	380	5,241	2,449	5,380	78.5	109.8	70.6
Lighting	398	222	354	5,715	2,608	5,674	69.6	85.0	62.3
Office Equipment	109	88	125	2,255	1,030	2,260	48.4	85.9	55.2

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Sum of Major Fuel Consumption (trillion Btu)					Total Floorspace of Buildings (million square feet)					Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)				
	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*	990	1,761	1,134	1,213	724	10,622	17,335	11,504	15,739	9,584	93.2	101.6	98.5	77.0	75.5
Building Floorspace (Square Feet)															
1,001 to 5,000	143	187	90	170	95	1,313	1,709	1,010	1,915	975	108.7	109.6	88.8	89.0	97.9
5,001 to 10,000	110	137	91	156	69	1,248	1,725	1,077	2,024	959	88.1	79.3	84.6	77.1	71.7
10,001 to 25,000	183	286	146	166	118	2,406	3,506	1,498	3,176	2,073	75.9	81.6	97.6	52.3	56.9
25,001 to 50,000	146	212	125	152	107	1,547	2,424	1,382	2,381	1,647	94.4	87.6	90.3	63.7	64.8
50,001 to 100,000	149	273	183	191	118	1,480	2,780	2,011	2,352	1,668	100.8	98.0	90.8	81.2	70.6
100,001 to 200,000	117	336	187	283	141	1,311	2,889	1,881	2,597	1,538	89.4	116.3	99.2	109.1	91.7
200,001 to 500,000	129	226	168	136	94	1,150	2,007	1,678	1,612	1,047	111.8	112.5	99.8	84.1	89.6
Over 500,000	Q	272	254	132	Q	1,073	1,766	1,966	1,573	1,282	Q	153.8	129.4	83.9	Q
Principal Building Activity															
Education	141	238	131	186	123	1,537	2,800	1,403	2,435	1,698	91.6	85.2	93.5	76.6	72.6
Food Sales	Q	Q	Q	Q	Q	271	368	Q	273	Q	Q	Q	Q	Q	Q
Food Service	52	96	Q	134	Q	227	400	219	440	366	230.1	238.7	Q	305.4	Q
Health Care	96	161	108	145	83	475	784	564	844	496	202.4	205.8	191.4	171.9	167.7
Inpatient	65	127	Q	127	Q	262	450	323	592	278	246.1	283.3	Q	215.0	Q
Outpatient	Q	34	Q	Q	Q	213	334	240	252	218	Q	101.5	Q	Q	Q
Lodging	69	174	110	104	Q	768	1,314	1,132	1,275	608	90.1	132.1	Q	81.4	Q
Retail (Other Than Mall)	73	64	54	74	55	710	865	695	1,454	592	103.0	73.5	77.7	50.7	92.0
Office	145	364	298	162	165	1,593	3,165	3,125	2,341	1,985	90.7	114.9	95.4	69.3	83.2
Public Assembly	90	74	70	101	35	876	818	806	910	529	102.2	90.8	Q	111.1	65.8
Public Order and Safety	Q	Q	Q	Q	Q	Q	360	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	26	62	26	31	19	408	1,320	499	1,039	488	62.9	46.9	52.8	29.4	38.2
Service	95	84	64	49	Q	944	1,185	644	969	308	100.4	71.2	99.5	50.3	Q
Warehouse and Storage	78	201	73	73	31	1,704	2,639	1,479	2,419	1,836	45.7	76.1	49.5	30.1	16.9
Other	Q	Q	Q	Q	Q	334	467	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	543	849	Q	569	318	Q	Q	Q	Q	Q
Year Constructed															
Before 1920	109	99	Q	Q	Q	1,227	1,413	731	290	Q	88.6	70.2	89.0	Q	Q
1920 to 1945	86	262	199	57	Q	1,089	2,266	1,985	1,239	405	79.3	115.5	100.2	45.7	Q
1946 to 1959	86	236	124	114	28	1,093	2,508	1,446	1,663	552	78.7	94.2	86.0	68.3	49.9
1960 to 1969	156	254	158	141	81	1,447	2,576	1,576	1,997	1,046	108.0	98.8	100.3	70.5	77.7
1970 to 1979	274	344	212	217	143	2,496	3,259	1,942	2,783	1,796	109.8	105.7	109.2	77.9	79.9
1980 to 1989	110	343	222	354	217	1,123	2,808	2,110	3,850	2,576	98.2	122.2	105.3	91.9	84.3
1990 to 1999	195	266	164	371	264	2,120	2,655	1,764	4,207	3,235	92.2	100.3	93.1	88.3	81.6
2000 to 2003	69	124	98	112	108	934	1,322	949	1,601	1,456	73.6	93.5	103.3	70.0	74.4
Census Region and Division															
Northeast	211	597	588	N	N	2,567	5,989	5,440	N	N	82.2	99.8	108.0	N	N
New England	62	282	N	N	N	Q	2,463	N	N	N	63.1	114.5	N	N	N
Middle Atlantic	Q	315	588	N	N	1,577	3,526	5,440	N	N	94.2	89.4	108.0	N	N
Midwest	573	1,112	114	N	N	5,910	10,584	1,609	N	N	97.0	105.1	70.5	N	N
East North Central	333	1,010	N	N	N	3,208	9,215	N	N	N	103.8	109.6	N	N	N
West North Central	240	102	114	N	N	2,702	Q	1,609	N	N	88.9	74.6	70.5	N	N
South	N	N	472	997	796	N	N	4,736	11,506	10,497	N	N	99.7	86.6	75.8
South Atlantic	N	N	311	635	296	N	N	3,065	7,126	3,807	N	N	101.4	89.0	77.7
East South Central	N	N	Q	Q	Q	N	N	Q	Q	Q	N	N	112.3	78.5	98.9
West South Central	N	N	Q	195	457	N	N	Q	2,255	6,258	N	N	Q	86.7	73.0
West	302	219	Q	389	84	3,052	2,234	718	6,125	692	99.0	98.2	96.4	63.5	121.0
Mountain	244	136	N	N	65	2,446	1,181	N	N	580	99.9	115.5	N	N	112.9
Pacific	Q	83	Q	389	Q	Q	Q	718	6,125	Q	95.1	78.8	96.4	63.5	Q

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

	Sum of Major Fuel Consumption (trillion Btu)					Total Floorspace of Buildings (million square feet)					Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)				
	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*	990	1,761	1,134	1,213	724	10,622	17,335	11,504	15,739	9,584	93.2	101.6	98.5	77.0	75.5
Number of Floors															
One	320	588	247	484	298	3,750	6,253	3,156	8,011	4,810	85.4	94.1	78.2	60.4	61.9
Two	275	383	243	271	139	3,146	4,867	2,623	3,423	2,210	87.5	78.7	92.5	79.1	62.9
Three	143	220	101	123	32	1,664	2,643	1,228	1,473	492	86.1	83.4	82.6	83.4	64.0
Four to Nine	206	393	328	264	145	1,731	2,525	2,744	1,982	1,103	119.3	155.7	119.5	133.2	131.2
Ten or More	Q	176	215	71	Q	330	1,047	1,752	850	968	Q	168.0	122.5	83.5	Q
Elevators and Escalators (more than one may apply)															
Any Elevators	422	842	659	556	348	4,047	6,462	5,728	4,967	3,413	104.2	130.3	115.0	111.9	101.9
Number of Elevators															
One	162	246	146	114	63	1,714	2,647	1,539	1,272	1,048	94.5	93.1	95.0	89.5	60.4
Two to Five	185	335	234	272	131	1,906	2,479	2,282	2,263	1,199	97.3	135.2	102.5	120.3	109.2
Six or More	74	261	278	170	154	427	1,336	1,908	1,431	1,166	173.9	195.1	146.0	118.5	131.8
Any Escalators	Q	Q	Q	Q	Q	Q	Q	788	Q	Q	Q	Q	Q	Q	Q
Number of Workers (main shift)															
Fewer than 5	164	348	93	140	72	2,699	4,857	1,755	4,076	2,106	60.9	71.7	53.1	34.2	34.1
5 to 9	83	139	79	109	59	1,035	1,529	1,013	1,646	944	79.9	91.0	77.9	65.9	62.9
10 to 19	124	166	103	112	89	1,374	2,155	1,359	1,599	1,317	90.5	76.8	75.9	70.3	67.6
20 to 49	220	254	232	226	118	2,014	2,709	2,132	2,498	1,635	109.3	93.6	109.0	90.4	72.2
50 to 99	152	222	128	157	68	1,673	2,166	1,316	1,812	966	91.2	102.4	97.3	86.5	70.7
100 to 249	118	232	145	262	81	996	1,561	1,434	2,109	771	118.0	148.9	100.9	124.4	104.5
250 or More	128	399	353	207	237	832	2,357	2,495	1,999	1,845	154.2	169.5	141.6	103.6	128.3
Weekly Operating Hours															
Fewer than 40	43	83	24	48	28	977	2,330	658	1,903	994	44.5	35.6	37.1	25.4	28.5
40 to 48	113	282	122	162	94	1,549	3,147	1,983	3,017	1,926	73.1	89.6	61.5	53.6	49.1
49 to 60	222	400	206	201	150	3,094	4,123	2,380	3,589	2,537	71.8	97.0	86.6	56.0	59.2
61 to 84	168	260	177	212	107	1,586	2,887	1,897	2,557	1,407	106.1	90.2	93.2	82.8	76.1
85 to 167	199	218	174	180	118	1,552	1,665	1,386	1,384	1,105	128.2	131.0	125.7	130.0	107.0
Open Continuously	244	517	430	410	225	1,863	3,184	3,200	3,288	1,615	130.9	162.5	134.4	124.7	139.5
Ownership and Occupancy															
Nongovernment Owned	704	1,177	885	904	533	8,063	12,350	9,204	12,409	7,396	87.3	95.3	96.1	72.9	72.0
Owner Occupied	314	633	464	415	235	3,894	6,510	4,791	5,496	2,899	80.5	97.2	96.8	75.6	81.0
Nonowner Occupied	388	529	414	487	297	3,972	5,030	4,244	6,439	4,228	97.6	105.2	97.6	75.6	70.1
Unoccupied	Q	Q	Q	Q	Q	Q	810	Q	473	Q	Q	Q	Q	Q	Q
Government Owned	285	583	249	309	191	2,558	4,985	2,300	3,330	2,189	111.6	117.0	108.1	92.6	87.3
Federal	Q	Q	Q	Q	Q	167	1,135	Q	144	Q	Q	Q	169.3	Q	Q
State	115	101	80	153	Q	696	709	692	1,247	Q	165.0	142.6	115.5	123.0	Q
Local	151	290	97	142	120	1,695	3,141	1,182	1,939	1,642	89.4	92.3	81.8	73.3	73.2
Vacancy Status															
Completely Vacant	Q	Q	Q	Q	Q	Q	821	Q	491	303	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	188	362	243	134	158	2,295	3,261	2,606	2,179	2,041	82.1	111.0	93.2	61.6	77.6
Not At All Vacant	882	1,547	986	1,249	719	8,690	14,697	9,609	14,882	8,830	101.4	105.3	102.6	83.9	81.4
Number of Establishments															
One	696	1,333	777	896	465	7,138	12,514	7,713	11,616	6,163	97.6	106.5	100.7	77.1	75.5
2 to 5	252	321	196	276	117	2,527	3,217	2,021	3,008	1,792	99.8	99.6	96.8	91.6	65.4
6 to 10	57	117	60	51	93	584	867	530	586	791	97.8	135.0	113.5	86.7	117.6
11 to 20	Q	80	64	72	68	Q	747	793	694	723	Q	106.9	80.5	104.3	94.7
More than 20	Q	Q	Q	89	134	538	641	1,227	1,236	1,417	Q	Q	Q	72.4	94.7
Currently Unoccupied	Q	Q	Q	Q	Q	Q	821	Q	491	303	Q	Q	Q	Q	Q

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

	Sum of Major Fuel Consumption (trillion Btu)					Total Floorspace of Buildings (million square feet)					Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)				
	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*	990	1,761	1,134	1,213	724	10,622	17,335	11,504	15,739	9,584	93.2	101.6	98.5	77.0	75.5
Predominant Exterior Wall Material															
Brick, Stone or Stucco	458	1,096	621	668	342	4,477	9,905	6,068	8,295	4,071	102.4	110.7	102.4	80.6	83.9
Concrete (Block or Poured)	216	222	213	191	132	2,023	2,599	1,840	2,428	1,942	106.6	85.4	115.9	78.8	68.0
Concrete Panels	109	160	121	124	154	895	1,252	1,219	1,431	1,762	121.7	127.4	99.2	86.9	87.1
Siding or Shingles	83	81	22	72	Q	1,294	1,319	443	849	214	64.3	61.6	49.0	84.3	Q
Metal Panels	102	112	84	134	32	1,665	1,492	1,287	2,394	1,074	61.0	74.8	65.2	56.1	29.5
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	351	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material															
Built-Up	343	592	433	432	283	3,311	5,174	3,862	5,283	3,540	103.6	114.5	112.2	81.8	79.8
Shingles (Not Wood)	161	264	156	184	58	1,788	3,309	1,498	2,657	943	90.3	79.6	103.8	69.1	61.9
Metal Surfacing	146	128	88	184	84	2,396	2,091	1,620	3,390	2,448	60.9	61.2	54.4	54.2	34.3
Synthetic or Rubber	279	577	334	246	214	2,530	5,225	2,847	2,561	1,566	110.1	110.3	117.3	96.0	136.7
Slate or Tile	Q	50	40	72	30	145	478	451	972	416	Q	103.6	88.0	74.1	71.9
Wooden Materials	Q	Q	Q	Q	Q	Q	217	Q	254	Q	Q	Q	Q	Q	Q
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	320	394	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)															
Any Type of Renovation Since 1980	387	578	411	267	124	3,793	5,445	4,025	3,157	1,424	102.0	106.1	102.1	84.4	87.0
Addition or Annex	205	215	152	107	54	1,800	1,798	1,489	930	533	113.6	119.6	102.0	115.0	101.8
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	307	418	304	196	93	2,780	3,719	3,124	2,449	1,047	110.5	112.3	97.2	80.0	88.7
Wall or Roof Replacement	182	233	211	97	54	1,723	2,178	2,280	1,316	573	105.7	107.1	92.5	73.7	94.5
Interior Wall Re-Configuration	219	285	224	125	58	1,983	2,300	2,297	1,388	550	110.4	124.1	97.4	89.8	106.2
HVAC Equipment Upgrade	262	345	292	187	72	2,415	3,076	2,660	1,879	738	108.4	112.0	109.6	99.4	97.2
Lighting Upgrade	274	339	263	148	61	2,492	3,124	2,353	1,707	600	110.1	108.6	111.7	86.8	101.1
Window Replacement	133	234	175	53	Q	1,384	2,142	1,938	650	241	96.0	109.1	90.1	81.3	Q
Plumbing System Upgrade	184	230	189	106	Q	1,616	1,939	1,948	1,204	437	113.5	118.7	97.1	88.1	Q
Insulation Upgrade	90	110	105	55	Q	907	1,181	1,079	583	265	99.5	93.3	97.6	93.8	Q
Other Renovation	Q	Q	Q	Q	N	Q	Q	Q	Q	N	Q	Q	Q	Q	N
No Renovations Since 1980	282	536	306	239	119	3,217	5,893	3,291	4,329	1,983	87.5	91.0	92.9	55.3	59.8
Building Newer than 1980	375	733	485	837	590	4,177	6,785	4,823	9,658	7,267	89.7	108.0	100.5	86.7	81.1
Energy Sources (more than one may apply)															
Electricity	1,086	1,929	1,243	1,386	879	11,300	18,549	12,374	17,064	10,894	96.1	104.0	100.4	81.2	80.7
Natural Gas	893	1,551	990	1,054	555	8,486	14,122	8,970	11,796	5,098	105.2	109.8	110.3	89.3	108.9
Fuel Oil	303	529	539	284	212	2,624	4,285	4,950	2,528	1,878	115.6	123.4	108.8	112.3	112.9
District Heat	Q	Q	228	Q	Q	825	1,917	1,349	1,025	460	Q	Q	168.7	Q	Q
District Chilled Water	Q	Q	Q	Q	Q	350	698	514	659	633	Q	Q	Q	Q	Q
Propane	118	214	71	123	57	1,607	2,036	1,102	1,403	928	73.7	105.2	64.7	87.8	61.9
Other	45	33	Q	Q	Q	483	378	268	223	Q	94.1	87.6	Q	Q	Q

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

	Sum of Major Fuel Consumption (trillion Btu)					Total Floorspace of Buildings (million square feet)					Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)				
	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*	990	1,761	1,134	1,213	724	10,622	17,335	11,504	15,739	9,584	93.2	101.6	98.5	77.0	75.5
Space-Heating Energy Sources (more than one may apply)															
Electricity	406	663	577	615	551	4,620	6,930	5,818	8,674	7,156	88.0	95.7	99.2	70.9	77.0
Natural Gas	818	1,335	757	903	330	7,970	12,658	7,002	10,350	3,128	102.7	105.5	108.1	87.3	105.4
Fuel Oil	149	161	242	Q	Q	1,563	1,687	2,418	385	Q	95.3	95.7	Q	Q	Q
District Heat	Q	Q	222	Q	Q	818	1,882	1,281	918	432	Q	Q	173.0	Q	Q
Propane	34	24	Q	Q	Q	849	650	Q	755	Q	39.5	36.7	37.7	Q	Q
Other	Q	Q	Q	Q	Q	339	208	Q	Q	Q	79.7	Q	Q	Q	Q
Primary Space-Heating Energy Source															
Electricity	171	266	230	376	450	1,984	3,236	2,859	5,863	6,274	86.4	82.1	80.3	64.2	71.8
Natural Gas	738	1,209	688	781	280	7,264	11,744	6,310	8,738	2,616	101.6	103.0	109.0	89.4	107.2
Fuel Oil	79	99	Q	Q	Q	962	1,283	1,587	Q	Q	82.3	77.3	Q	Q	Q
District Heat	Q	Q	212	Q	Q	752	1,771	1,231	883	Q	Q	Q	172.6	Q	Q
Propane	11	14	Q	Q	Q	394	492	Q	423	Q	29.1	29.2	35.4	Q	Q
Other	Q	Q	Q	Q	N	Q	Q	Q	Q	N	Q	Q	Q	Q	N
Cooling Energy Sources (more than one may apply)															
Electricity	944	1,605	1,099	1,267	790	9,092	15,265	11,279	15,330	9,974	103.9	105.1	97.4	82.7	79.2
Natural Gas	Q	Q	Q	Q	Q	Q	358	Q	Q	Q	Q	Q	Q	Q	Q
District Chilled Water	Q	Q	Q	Q	Q	350	698	514	659	633	Q	Q	Q	Q	Q
Water-Heating Energy Sources (more than one may apply)															
Electricity	383	673	503	626	453	4,685	7,610	5,923	8,077	6,274	81.7	88.4	85.0	77.5	72.2
Natural Gas	663	1,067	661	797	416	6,152	9,299	5,421	8,047	3,393	107.8	114.7	121.9	99.1	122.5
Fuel Oil	48	53	Q	Q	Q	389	505	933	Q	Q	124.1	105.6	Q	Q	Q
District Heat	Q	Q	178	Q	Q	582	787	1,073	695	Q	Q	Q	165.9	Q	Q
Propane	Q	Q	Q	Q	Q	341	312	Q	260	Q	Q	Q	44.9	Q	Q
Cooking Energy Sources (more than one may apply)															
Electricity	256	513	279	288	243	2,123	4,210	2,235	2,472	2,120	120.6	121.8	125.0	116.3	114.8
Natural Gas	298	568	470	454	283	2,217	4,071	3,464	3,518	2,167	134.4	139.6	135.8	129.1	130.6
Propane	27	Q	Q	Q	Q	354	259	Q	387	Q	75.5	Q	Q	Q	Q
Energy End Uses (more than one may apply)															
Buildings with Space Heating	986	1,750	1,127	1,168	674	10,109	16,720	11,239	13,965	7,995	97.5	104.7	100.2	83.7	84.3
Buildings with Cooling	906	1,553	1,106	1,178	721	8,550	14,524	10,946	13,977	8,943	105.9	106.9	101.1	84.3	80.7
Buildings with Water Heating	966	1,571	1,116	1,160	686	9,474	15,160	10,785	13,192	7,867	102.0	103.6	103.4	87.9	87.2
Buildings with Cooking	408	805	586	538	374	3,302	6,369	4,736	4,621	3,208	123.7	126.4	123.8	116.5	116.6
Buildings with Manufacturing	61	64	79	44	Q	855	729	772	608	Q	71.5	88.2	102.9	73.1	Q
Buildings with Electricity Generation	240	571	396	296	190	1,764	3,862	2,973	2,583	1,639	135.9	147.8	133.3	114.7	115.8
Percent of Floorspace Heated															
Not Heated	100	178	116	217	205	1,420	2,088	1,263	3,665	3,194	70.5	85.5	91.9	59.3	64.3
1 to 50	42	62	73	84	37	1,111	1,109	1,325	1,845	1,460	38.2	56.0	55.3	45.3	25.3
51 to 99	139	168	160	180	100	1,377	1,735	1,713	2,349	932	100.6	96.6	93.5	76.6	107.4
100	805	1,521	893	905	537	7,620	13,876	8,202	9,772	5,602	105.6	109.6	108.9	92.6	95.9

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

	Sum of Major Fuel Consumption (trillion Btu)					Total Floorspace of Buildings (million square feet)					Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)				
	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*	990	1,761	1,134	1,213	724	10,622	17,335	11,504	15,739	9,584	93.2	101.6	98.5	77.0	75.5
Percent of Floorspace Cooled															
Not Cooled	180	376	137	208	158	2,979	4,283	1,557	3,654	2,245	60.5	87.8	87.7	56.8	70.4
1 to 50	270	325	218	166	49	3,133	4,657	3,422	3,480	1,906	86.0	69.7	63.6	47.6	25.5
51 to 99	255	425	375	233	126	2,327	3,568	3,297	2,803	1,215	109.5	119.0	113.6	83.2	103.3
100	381	804	514	779	547	3,089	6,300	4,227	7,693	5,822	123.5	127.6	121.6	101.3	94.0
Percent Lit When Open															
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	129	166	112	75	58	1,956	2,667	2,132	2,066	1,382	65.8	62.3	52.6	36.5	41.7
51 to 99	346	488	378	286	238	3,666	4,929	3,133	3,804	2,756	94.4	99.1	120.5	75.2	86.3
100	505	1,081	634	845	425	4,362	8,654	5,924	8,979	4,870	115.7	124.9	107.0	94.1	87.3
Building Never Open/ Electricity Not Used	Q	Q	Q	Q	Q	597	1,064	282	808	459	Q	Q	Q	Q	Q
Percent Lit When Closed															
Zero	236	396	148	212	141	3,536	4,589	2,252	4,370	2,637	66.7	86.2	65.7	48.5	53.5
1 to 50	478	777	502	557	312	4,772	8,916	5,541	7,172	4,546	100.2	87.1	90.6	77.7	68.6
51 to 100	Q	Q	Q	Q	45	263	409	442	478	501	Q	Q	Q	Q	90.7
Building Never Closed/ Electricity Not Used	244	518	430	410	225	2,051	3,421	3,269	3,718	1,899	119.0	151.3	131.6	110.3	118.6
Heating Equipment (more than one may apply)															
Heat Pumps	75	176	213	222	119	727	1,471	1,971	3,283	1,361	102.8	119.7	108.2	67.5	87.6
Packaged Heat Pumps	Q	Q	144	125	93	433	995	1,267	1,749	997	Q	112.6	113.5	71.2	93.4
Split-System Heat Pumps	Q	Q	Q	66	29	Q	227	686	1,140	419	Q	Q	112.4	58.0	69.1
Individual Room Heat Pumps	Q	Q	56	64	Q	Q	497	537	1,021	287	Q	Q	105.0	62.6	Q
Furnaces	370	512	207	286	118	4,587	6,411	2,648	4,313	1,658	80.6	79.9	78.0	66.4	71.1
Individual Space Heaters	236	314	247	166	60	3,014	3,582	2,524	2,569	856	78.4	87.7	98.0	64.5	70.2
District Heat	Q	Q	218	Q	Q	801	1,749	1,266	918	432	Q	Q	171.9	Q	Q
Boilers	435	740	533	381	155	4,060	6,835	4,693	3,334	1,500	107.1	108.3	113.5	114.3	103.6
Packaged Heating Units	239	441	326	435	287	2,126	3,708	3,204	5,619	3,365	112.5	119.0	101.6	77.5	85.4
Other	63	58	Q	25	48	816	674	497	525	750	77.4	85.4	Q	47.3	63.9
Cooling Equipment (more than one may apply)															
Residential-Type Central Air Conditioners	197	273	219	152	83	1,971	3,078	2,207	2,056	1,723	99.9	88.7	99.1	73.8	48.4
Heat Pumps	76	182	221	233	125	739	1,542	1,998	3,398	1,365	102.8	118.1	110.5	68.6	91.7
Packaged Heat Pumps	50	Q	155	118	90	453	1,033	1,337	1,679	924	110.3	112.8	115.6	70.2	97.0
Split-System Heat Pumps	Q	Q	Q	70	31	Q	247	703	1,127	458	Q	Q	111.6	61.7	68.0
Individual Room Heat Pumps	Q	Q	55	78	Q	377	510	523	1,190	340	Q	Q	104.7	65.2	Q
Individual Air Conditioners	234	358	210	192	86	2,321	3,633	2,786	2,565	1,253	100.8	98.5	75.5	74.7	68.7
District Chilled Water	Q	Q	Q	Q	Q	350	698	514	659	633	Q	Q	Q	Q	Q
Central Chillers	200	433	348	326	225	1,604	2,658	2,473	2,695	2,205	124.7	162.8	140.7	120.9	101.8
Packaged Air Conditioning Units	505	858	588	600	312	4,565	7,740	6,076	7,703	3,884	110.6	110.8	96.8	77.8	80.4
Swamp Coolers	57	38	Q	Q	Q	515	468	Q	346	Q	111.7	81.6	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	336	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)															
Heating	263	481	273	229	122	3,263	4,981	3,204	3,195	1,759	80.5	96.5	85.1	71.7	69.4
Cooling	361	656	452	288	192	3,555	5,895	4,827	4,112	2,606	101.7	111.2	93.6	70.0	73.7

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

	Sum of Major Fuel Consumption (trillion Btu)					Total Floorspace of Buildings (million square feet)					Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)				
	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*	990	1,761	1,134	1,213	724	10,622	17,335	11,504	15,739	9,584	93.2	101.6	98.5	77.0	75.5
Water Heating Equipment															
Centralized System	684	958	683	697	411	6,315	9,553	6,774	7,444	4,585	108.4	100.3	100.8	93.6	89.6
Distributed System	102	244	167	187	134	1,468	2,954	2,015	3,009	2,094	69.8	82.6	83.0	62.2	64.2
Combination of Centralized and Distributed System	180	369	266	276	141	1,691	2,654	1,996	2,739	1,187	106.1	139.0	133.2	100.7	118.4
Lighting Equipment Types (more than one may apply)															
Incandescent	674	1,156	854	770	461	7,016	10,308	8,192	7,939	5,073	96.1	112.2	104.3	97.0	90.9
Standard Fluorescent	965	1,696	1,107	1,178	698	9,783	16,090	10,871	14,316	8,627	98.7	105.4	101.8	82.3	80.9
Compact Fluorescent	529	882	745	693	358	4,667	6,835	6,292	6,439	3,339	113.5	129.1	118.5	107.6	107.3
High Intensity Discharge	395	738	439	343	226	3,955	6,149	4,385	3,863	2,292	99.9	120.0	100.0	88.9	98.7
Halogen	356	550	417	434	225	2,762	4,485	3,903	4,117	2,435	128.8	122.5	106.9	105.5	92.2
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	142.6	198.5	Q
Refrigeration Equipment (more than one may apply)[b]															
Any Refrigeration	887	1,526	1,030	1,102	669	8,673	14,438	9,893	12,329	7,640	102.2	105.7	104.1	89.4	87.6
Commercial Refrigeration	504	975	705	711	441	4,106	7,355	5,702	5,784	3,821	122.8	132.5	123.7	122.9	115.3
Walk-In Units	408	788	565	630	375	3,188	5,353	4,341	4,490	2,882	127.9	147.2	130.2	140.3	130.0
Cases or Cabinets	401	776	575	572	378	2,950	5,523	4,191	4,586	3,174	135.9	140.5	137.3	124.8	119.0
Residential-Type Units	632	1,076	689	635	435	6,713	10,957	7,367	8,479	5,369	94.1	98.2	93.6	74.8	80.9
Vending Machines	609	1,102	729	782	499	5,824	9,186	6,729	8,220	5,375	104.7	119.9	108.3	95.1	92.8
No Refrigeration	103	235	104	111	55	1,949	2,897	1,611	3,410	1,944	53.0	81.1	64.3	32.5	28.1
Office Equipment (more than one may apply)															
Computers	919	1,595	1,078	1,100	684	8,976	14,756	10,556	13,086	8,253	102.3	108.1	102.2	84.0	82.8
With Flat Screen Monitors	413	828	742	585	398	3,629	6,548	6,204	6,118	3,919	113.9	126.5	119.5	95.6	101.5
Dedicated Servers	592	1,099	851	762	456	5,673	9,426	7,813	8,157	5,269	104.4	116.6	108.9	93.4	86.6
Laser Printers	558	924	565	585	377	5,811	8,950	5,910	7,675	4,666	95.9	103.3	95.6	76.2	80.9
Inkjet Printers	599	861	696	706	440	5,523	7,781	6,220	7,556	5,130	108.5	110.7	111.8	93.4	85.8
FAX Machines	865	1,450	1,056	1,067	653	8,446	13,443	10,336	12,438	7,710	102.5	107.8	102.2	85.8	84.7
Photocopiers	744	1,312	935	919	555	7,181	12,244	9,222	10,780	6,828	103.6	107.1	101.4	85.3	81.3
Number of Computers															
None	71	165	55	113	40	1,646	2,579	948	2,652	1,331	43.2	64.1	58.1	42.6	30.1
1 to 4	201	324	134	220	136	2,242	3,537	1,801	3,206	1,608	89.6	91.6	74.5	68.6	84.8
5 to 9	123	157	96	95	74	1,392	1,946	1,206	1,572	1,063	88.3	80.5	80.0	60.7	69.8
10 to 19	106	153	90	106	59	1,057	1,724	1,032	1,568	1,228	100.4	89.0	87.2	67.6	48.4
20 to 49	126	186	154	168	71	1,239	2,045	1,441	1,729	960	102.1	91.2	107.0	97.4	74.5
50 to 99	84	119	93	148	69	740	1,124	1,078	1,547	887	113.1	105.9	Q	95.9	77.3
100 to 249	141	191	148	160	74	1,266	1,554	1,389	1,626	855	111.3	123.2	106.3	98.5	86.1
250 or More	138	464	363	201	200	1,040	2,825	2,610	1,837	1,652	132.5	164.4	139.1	109.6	121.0
Number of Dedicated Servers															
None	398	662	283	450	268	4,949	7,909	3,691	7,581	4,315	80.3	83.7	76.6	59.4	62.0
1 to 4	433	600	471	492	237	4,305	6,249	4,591	5,624	3,346	100.6	96.0	102.6	87.6	70.9
5 to 9	35	117	Q	90	Q	516	980	1,078	884	405	67.7	119.5	112.8	101.3	Q
10 to 19	62	160	59	82	Q	412	965	455	724	472	150.2	165.6	129.6	113.0	Q
20 to 49	Q	Q	Q	Q	Q	252	428	586	604	713	Q	Q	Q	Q	Q
50 or More	Q	155	119	Q	Q	Q	804	1,102	321	Q	Q	192.7	107.7	Q	Q

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

	Sum of Major Fuel Consumption (trillion Btu)					Total Floorspace of Buildings (million square feet)					Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)				
	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*	990	1,761	1,134	1,213	724	10,622	17,335	11,504	15,739	9,584	93.2	101.6	98.5	77.0	75.5
Number of Photocopiers															
None	246	449	198	293	168	3,440	5,090	2,281	4,958	2,756	71.4	88.1	86.9	59.2	61.1
One	243	343	177	246	121	2,653	4,546	2,337	3,806	2,133	91.6	75.4	75.6	64.7	56.9
2 to 4	256	369	244	302	164	2,655	3,694	2,833	3,554	2,345	96.2	99.9	86.0	85.0	69.9
5 to 9	95	181	119	132	85	863	1,386	1,219	1,326	721	110.2	130.5	97.4	99.7	117.8
10 or More	150	419	396	239	185	1,010	2,619	2,833	2,093	1,629	148.9	160.1	139.9	113.9	113.5
Energy-Related Space Functions (more than one may apply)															
Commercial Food Preparation	408	804	586	538	374	3,302	6,358	4,736	4,620	3,208	123.7	126.4	123.8	116.5	116.6
Activities with Large Amounts of Hot Water	424	727	485	570	259	3,451	5,260	4,091	4,479	2,200	122.8	138.2	118.5	127.4	117.9
Separate Computer Area	414	877	683	580	340	3,713	7,143	5,988	6,266	3,763	111.6	122.8	114.0	92.6	90.5
HVAC Conservation Features (more than one may apply)															
Variable Air-Volume System	364	672	516	488	340	2,985	4,852	4,086	4,201	3,473	122.0	138.5	126.3	116.1	98.0
Economizer Cycle	447	780	591	489	282	3,804	5,533	4,736	4,630	2,406	117.5	141.0	124.8	105.6	117.1
HVAC Maintenance	829	1,595	1,017	1,064	665	8,045	14,309	9,597	11,542	7,670	103.0	111.5	105.9	92.2	86.7
Energy Management and Control System (EMCS)	282	495	424	327	254	2,438	3,834	3,284	3,546	2,528	115.8	129.2	129.2	92.1	100.4
Window and Interior Lighting Features (more than one may apply)															
Multipaned Windows	811	1,288	787	696	348	8,109	11,763	7,855	7,264	3,919	100.0	109.5	100.2	95.8	88.9
Tinted Window Glass	417	941	629	648	464	3,628	7,587	5,356	7,883	5,434	114.9	124.0	117.4	82.2	85.3
Reflective Window Glass	127	258	217	194	131	1,259	2,139	1,733	2,066	1,347	100.5	120.6	125.4	94.0	96.9
External Overhangs or Awnings	288	486	304	401	257	2,640	4,510	3,003	4,424	2,665	109.1	107.8	101.3	90.6	96.5
Skylights or Atriums	253	407	278	213	156	2,164	3,572	2,573	2,596	1,640	116.8	114.0	108.1	82.0	95.1
Daylighting Sensors	80	Q	Q	60	Q	574	837	413	618	426	138.6	147.4	Q	97.6	Q
Specular Reflectors	493	931	603	521	281	4,446	7,579	5,238	5,892	2,961	110.9	122.8	115.2	88.4	94.7
Electronic Ballasts	859	1,357	948	975	608	8,390	11,771	8,922	10,876	6,923	102.3	115.3	106.2	89.7	87.8
Energy Management and Control System (EMCS) For Lighting	84	148	134	77	95	756	1,249	881	899	997	111.8	118.8	151.8	85.4	95.5
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[b]															
Heating	635	1,096	843	736	431	6,995	11,651	8,469	10,227	5,380	90.7	94.1	99.5	71.9	80.1
Cooling	621	1,053	858	777	535	6,309	10,745	8,843	10,627	6,681	98.4	98.0	97.1	73.1	80.1
Lighting	711	1,203	662	771	471	7,959	12,889	7,802	11,312	7,025	89.3	93.3	84.9	68.2	67.1
Office Equipment	296	489	257	254	168	3,401	5,473	3,238	4,319	2,966	87.0	89.4	79.5	58.9	56.8

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

	Sum of Major Fuel Consumption (trillion Btu)					Total Floorspace of Buildings (million square feet)					Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)				
	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*	990	1,761	1,134	1,213	724	10,622	17,335	11,504	15,739	9,584	93.2	101.6	98.5	77.0	75.5

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

[a] Climate zone (30-year average) definitions: Zone 1 = Under 2,000 CDD and more than 7,000 HDD; Zone 2 = Under 2,000 CDD and 5,500-7,000 HDD; Zone 3 = Under 2,000 CDD and 4,000-5,499 HDD; Zone 4 = Under 2,000 CDD and fewer than 4,000 HDD; Zone 5 = 2,000 CDD or more and fewer than 4,000 HDD. (See "Glossary" for definitions of CDD and HDD.)

[b] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	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*	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
Principal Building Activity									
Education	63	423	334	808	5,378	3,687	78.3	78.6	90.7
Food Sales	144	Q	Q	765	467	Q	188.5	Q	Q
Food Service	318	108	Q	986	664	Q	322.9	163.2	Q
Health Care	32	104	457	445	835	1,883	71.8	125.1	242.9
Inpatient	N	Q	436	N	182	1,723	N	Q	252.9
Outpatient	32	66	Q	445	652	160	71.8	100.5	Q
Lodging	29	207	273	260	2,274	2,563	111.0	91.2	106.7
Retail (Other Than Mall)	110	137	72	1,363	2,133	821	80.9	64.1	87.8
Office	171	412	551	2,320	4,602	5,286	73.5	89.5	104.2
Public Assembly	59	150	Q	854	1,851	1,233	69.5	80.8	Q
Public Order and Safety	22	Q	Q	231	390	Q	94.3	Q	Q
Religious Worship	54	100	Q	1,160	2,391	Q	46.5	41.8	Q
Service	120	144	Q	1,755	1,862	Q	68.4	77.2	Q
Warehouse and Storage	47	157	253	1,763	4,601	3,714	26.4	34.1	68.0
Other	Q	100	Q	215	601	922	Q	166.8	Q
Vacant	Q	Q	Q	447	1,211	909	Q	Q	Q
Year Constructed									
Before 1920	77	162	Q	991	1,972	805	77.7	82.4	Q
1920 to 1945	130	175	314	1,623	2,466	2,781	80.2	71.2	113.0
1946 to 1959	114	220	231	1,503	3,283	2,258	76.1	66.9	102.4
1960 to 1969	133	350	254	1,555	4,177	2,369	85.4	83.7	107.3
1970 to 1979	206	367	450	2,297	4,735	3,740	89.8	77.5	120.3
1980 to 1989	182	342	509	1,870	4,211	4,251	97.4	81.3	119.8
1990 to 1999	274	401	423	2,533	5,798	4,029	108.0	69.2	105.0
2000 to 2003	71	191	180	1,001	2,618	1,915	70.8	72.8	93.8
Census Region and Division									
Northeast	220	458	594	2,149	5,303	5,454	102.4	86.3	108.8
New England	71	134	Q	719	1,416	829	98.4	94.8	Q
Middle Atlantic	149	323	505	1,430	3,887	4,624	104.4	83.2	109.2
Midwest	322	687	680	3,460	7,925	5,695	93.2	86.7	119.5
East North Central	219	451	583	1,816	5,170	4,608	120.5	87.3	126.5
West North Central	104	235	97	1,644	2,755	1,086	63.0	85.4	89.5
South	425	711	813	5,191	10,981	7,317	81.9	64.7	111.1
South Atlantic	219	361	484	2,593	5,382	4,282	84.5	67.1	112.9
East South Central	59	159	92	931	1,958	505	63.0	81.2	181.5
West South Central	147	190	237	1,667	3,640	2,530	88.4	52.3	93.8
West	220	353	338	2,574	5,052	3,684	85.5	69.9	91.8
Mountain	80	155	147	883	1,716	1,076	90.9	90.1	136.4
Pacific	140	198	191	1,692	3,335	2,608	82.7	59.5	73.4
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	245	427	318	2,504	4,981	3,137	98.0	85.7	101.2
5,500-7,000 HDD	312	673	775	3,306	7,971	6,058	94.4	84.5	128.0
4,000-5,499 HDD	164	407	562	1,969	4,516	5,018	83.1	90.2	112.1
Fewer than 4,000 HDD	309	427	477	3,769	7,033	4,936	82.1	60.7	96.6
2,000 CDD or More and --									
Fewer than 4,000 HDD	157	274	293	1,826	4,759	2,999	86.1	57.5	97.6

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	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*	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
Number of Floors									
One	828	802	307	9,342	12,643	3,996	88.7	63.4	76.9
Two	264	732	315	3,030	9,194	4,045	87.1	79.6	77.9
Three	81	322	216	846	4,227	2,428	96.2	76.3	88.8
Four to Nine	Q	340	983	155	3,078	6,851	Q	110.4	143.4
Ten or More	N	Q	604	N	Q	4,828	N	Q	125.1
Elevators and Escalators (more than one may apply)									
Any Elevators	Q	789	2,005	286	8,036	16,296	Q	98.2	123.0
Number of Elevators									
One	Q	482	218	286	5,190	2,745	Q	92.8	79.4
Two to Five	N	303	855	N	2,799	7,329	N	108.1	116.6
Six or More	N	Q	932	N	Q	6,222	N	Q	149.8
Any Escalators	Q	Q	275	Q	Q	2,257	Q	Q	121.9
Number of Workers (main shift)									
Fewer than 5	496	194	Q	7,981	5,932	1,579	62.2	32.7	Q
5 to 9	278	175	Q	2,637	3,202	Q	105.6	54.7	Q
10 to 19	248	284	Q	1,798	4,940	1,066	138.0	57.6	Q
20 to 49	136	751	163	844	7,898	2,247	160.5	95.1	72.7
50 to 99	Q	437	275	Q	4,492	3,368	Q	97.3	81.6
100 to 249	Q	313	511	Q	2,377	4,455	Q	131.7	114.7
250 or More	N	53	1,271	N	419	9,109	N	127.4	139.6
Weekly Operating Hours									
Fewer than 40	117	79	Q	3,029	2,790	1,044	38.6	28.4	Q
40 to 48	210	378	185	3,415	6,136	2,071	61.5	61.6	89.5
49 to 60	221	518	440	2,909	8,031	4,783	76.1	64.5	92.0
61 to 84	221	437	266	1,578	5,209	3,547	139.9	84.0	75.0
85 to 167	266	330	293	1,222	2,938	2,932	217.6	112.4	100.0
Open Continuously	153	465	1,209	1,221	4,156	7,771	125.0	111.9	155.5
Ownership and Occupancy									
Nongovernment Owned	1,062	1,580	1,561	11,871	22,176	15,374	89.5	71.2	101.5
Owner Occupied	449	736	875	5,540	10,688	7,363	81.1	68.9	118.8
Nonowner Occupied	609	834	672	5,953	10,621	7,339	102.3	78.5	91.5
Unoccupied	Q	Q	Q	377	867	Q	Q	Q	Q
Government Owned	125	628	864	1,504	7,084	6,775	83.3	88.7	127.5
Federal	Q	Q	255	Q	402	1,471	Q	Q	173.1
State	Q	199	278	302	1,755	1,751	Q	113.3	158.8
Local	83	386	331	1,119	4,927	3,553	74.5	78.4	93.1
Vacancy Status									
Completely Vacant	Q	Q	Q	405	918	838	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	83	350	652	1,443	4,519	6,420	57.8	77.5	101.6
Not At All Vacant	1,099	1,833	1,749	11,484	23,530	14,820	95.7	77.9	118.0

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	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*	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
Number of Establishments									
One	1,035	1,657	1,474	10,917	21,123	13,104	94.8	78.5	112.5
2 to 5	140	390	462	1,947	5,307	3,705	71.9	73.5	124.7
6 to 10	Q	87	121	Q	1,011	872	Q	86.5	139.3
11 to 20	Q	44	108	Q	624	1,325	Q	70.4	81.2
More than 20	Q	Q	238	Q	277	2,305	Q	Q	103.1
Currently Unoccupied	Q	Q	Q	405	918	838	Q	Q	Q
Predominant Exterior Wall Material									
Brick, Stone or Stucco	652	1,263	1,271	5,838	15,926	11,052	111.7	79.3	115.0
Concrete (Block or Poured)	201	430	343	2,074	5,357	3,402	96.9	80.3	100.8
Concrete Panels	Q	166	468	275	2,014	4,270	Q	82.3	109.5
Siding or Shingles	173	80	Q	2,274	1,555	Q	76.0	51.6	Q
Metal Panels	108	223	131	2,668	3,819	1,425	40.5	58.5	92.3
Window Glass	Q	Q	74	Q	231	762	Q	Q	97.3
Other	Q	Q	Q	Q	229	770	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material									
Built-Up	348	783	953	2,725	9,595	8,850	127.5	81.6	107.7
Shingles (Not Wood)	322	357	Q	3,901	4,888	1,406	82.5	72.9	Q
Metal Surfacing	186	319	124	4,021	6,356	1,567	46.3	50.2	79.3
Synthetic or Rubber	205	553	891	1,352	5,667	7,710	151.3	97.6	115.6
Slate or Tile	76	99	Q	776	1,296	391	97.3	76.0	Q
Wooden Materials	24	Q	Q	336	403	Q	72.6	Q	Q
Concrete	Q	Q	Q	158	455	1,618	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	280	699	788	2,924	8,005	6,916	95.7	87.3	113.9
Addition or Annex	75	260	398	668	2,805	3,079	112.9	92.6	129.2
Reduction In Floorspace	Q	Q	Q	Q	420	550	Q	Q	Q
Cosmetic Improvements	201	515	601	2,107	5,906	5,105	95.6	87.2	117.7
Wall or Roof Replacement	99	262	416	1,177	2,989	3,904	84.2	87.8	106.5
Interior Wall Re-Configuration	109	287	515	1,181	3,222	4,115	92.2	89.1	125.2
HVAC Equipment Upgrade	114	431	611	1,175	4,662	4,931	97.4	92.5	123.9
Lighting Upgrade	103	426	556	1,204	4,417	4,654	85.9	96.3	119.5
Window Replacement	77	250	286	873	2,847	2,633	88.0	87.9	108.5
Plumbing System Upgrade	87	245	416	890	2,735	3,519	97.4	89.6	118.3
Insulation Upgrade	46	150	184	640	1,655	1,719	72.6	90.6	107.1
Other Renovation	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	381	576	525	5,047	8,629	5,038	75.5	66.7	104.2
Building Newer than 1980	527	934	1,112	5,404	12,627	10,195	97.5	74.0	109.1

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	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*	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
Energy Sources (more than one may apply)									
Electricity	1,187	2,208	2,425	12,543	28,786	21,977	94.7	76.7	110.3
Natural Gas	852	1,736	1,903	6,776	19,761	16,931	125.7	87.9	112.4
Fuel Oil	123	352	1,285	1,317	3,532	10,308	93.6	99.6	124.7
District Heat	Q	239	763	Q	1,232	4,111	Q	194.3	185.6
District Chilled Water	Q	121	411	Q	694	2,111	Q	174.0	194.5
Propane	102	155	327	1,531	2,577	2,968	66.5	60.3	110.3
Other	17	59	Q	429	583	388	39.6	101.1	Q
Space-Heating Energy Sources (more than one may apply)									
Electricity	424	961	989	4,927	13,154	10,519	86.0	73.0	94.0
Natural Gas	745	1,511	1,425	6,187	17,733	13,038	120.5	85.2	109.3
Fuel Oil	108	128	355	1,183	1,760	3,045	91.1	72.4	116.7
District Heat	Q	235	744	Q	1,173	3,924	Q	200.3	189.7
Propane	58	49	Q	1,194	1,305	Q	48.5	37.8	Q
Other	13	32	Q	410	347	Q	32.0	91.7	Q
Primary Space-Heating Energy Source									
Electricity	289	492	308	3,465	7,876	4,656	83.3	62.5	66.2
Natural Gas	681	1,338	1,261	5,741	15,927	11,302	118.6	84.0	111.6
Fuel Oil	94	89	Q	913	1,268	1,637	103.3	70.5	Q
District Heat	Q	226	710	Q	1,112	3,695	Q	203.6	192.2
Propane	45	24	Q	1,009	858	Q	44.9	27.5	Q
Other	Q	Q	Q	226	Q	Q	Q	Q	Q
Cooling Energy Sources (more than one may apply)									
Electricity	1,073	2,013	1,935	10,360	25,385	18,575	103.6	79.3	104.2
Natural Gas	Q	Q	118	Q	298	683	Q	Q	173.6
District Chilled Water	Q	121	411	Q	694	2,111	Q	174.0	194.5
Water-Heating Energy Sources (more than one may apply)									
Electricity	463	893	788	5,669	12,392	9,430	81.7	72.1	83.6
Natural Gas	593	1,277	1,336	3,995	13,529	11,296	148.4	94.4	118.3
Fuel Oil	Q	48	112	285	694	900	Q	69.1	Q
District Heat	Q	Q	465	Q	555	2,507	Q	Q	185.4
Propane	Q	39	Q	374	853	Q	Q	45.2	Q
Cooking Energy Sources (more than one may apply)									
Electricity	215	444	920	1,114	4,754	7,292	193.1	93.5	126.1
Natural Gas	333	537	1,203	1,190	4,975	9,273	280.3	107.9	129.8
Propane	Q	43	Q	295	714	Q	Q	60.4	Q

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	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*	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
Energy End Uses (more than one may apply)									
Buildings with Space Heating	1,130	2,181	2,394	11,454	27,165	21,408	98.6	80.3	111.8
Buildings with Cooling	1,079	2,101	2,284	10,416	26,030	20,495	103.6	80.7	111.4
Buildings with Water Heating	1,093	2,126	2,280	10,107	25,708	20,663	108.1	82.7	110.3
Buildings with Cooking	452	769	1,492	2,133	8,041	12,063	211.8	95.6	123.7
Buildings with Manufacturing	21	109	124	330	1,326	1,482	64.8	81.9	83.9
Buildings with Electricity Generation	Q	388	1,284	199	3,074	9,547	Q	126.3	134.5
Percent of Floorspace Heated									
Not Heated	58	27	Q	1,920	2,095	740	30.0	13.0	Q
1 to 50	92	150	57	1,627	3,499	1,723	56.3	42.9	32.8
51 to 99	153	246	348	1,455	3,286	3,365	104.9	74.8	103.4
100	886	1,785	1,990	8,372	20,380	16,320	105.8	87.6	121.9
Percent of Floorspace Cooled									
Not Cooled	108	107	Q	2,959	3,231	1,654	36.6	33.1	Q
1 to 50	205	534	287	2,909	8,811	4,877	70.3	60.6	58.9
51 to 99	215	469	729	1,775	5,265	6,170	120.9	89.2	118.1
100	660	1,098	1,268	5,731	11,953	9,447	115.2	91.8	134.2
Percent Lit When Open									
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	155	260	125	2,495	5,662	2,046	62.2	45.8	61.3
51 to 99	279	680	777	3,154	8,556	6,579	88.5	79.4	118.1
100	740	1,251	1,499	6,390	13,779	12,620	115.8	90.8	118.8
Building Never Open/ Electricity Not Used	Q	Q	Q	1,186	1,130	893	Q	Q	Q
Percent Lit When Closed									
Zero	382	476	274	5,839	8,570	2,976	65.4	55.5	92.1
1 to 50	608	1,173	845	5,314	15,218	10,415	114.5	77.1	81.1
51 to 100	44	94	97	361	891	841	122.3	105.5	115.3
Building Never Closed/ Electricity Not Used	153	465	1,209	1,860	4,581	7,916	82.2	101.6	152.7
Heating Equipment (more than one may apply)									
Heat Pumps	91	327	387	1,147	4,074	3,593	79.4	80.2	107.7
Packaged Heat Pumps	62	192	269	686	2,402	2,354	89.8	79.8	114.4
Split-System Heat Pumps	26	98	Q	420	1,293	868	60.8	76.1	85.5
Individual Room Heat Pumps	Q	98	151	Q	1,113	1,509	Q	88.2	100.2
Furnaces	530	624	340	5,794	9,501	4,320	91.4	65.7	78.6
Individual Space Heaters	158	445	420	2,329	5,696	4,520	67.7	78.2	93.0
District Heat	Q	233	739	Q	1,162	3,903	Q	200.1	189.2
Boilers	156	821	1,267	1,234	8,490	10,699	126.2	96.7	118.4
Packaged Heating Units	365	730	634	2,758	8,541	6,722	132.2	85.4	94.3
Other	34	95	102	549	1,325	1,388	62.2	71.5	73.3

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	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*	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	274	385	265	3,091	5,245	2,699	88.6	73.4	98.1
Heat Pumps	105	329	403	1,239	4,036	3,766	85.1	81.5	106.9
Packaged Heat Pumps	70	194	264	761	2,370	2,295	92.5	82.0	115.0
Split-System Heat Pumps	31	99	Q	436	1,289	880	70.9	76.7	84.5
Individual Room Heat Pumps	Q	97	175	Q	1,096	1,774	Q	88.5	98.6
Individual Air Conditioners	155	454	471	1,984	5,999	4,576	77.9	75.7	102.9
District Chilled Water	Q	121	411	Q	694	2,111	Q	174.0	194.5
Central Chillers	Q	350	1,173	Q	2,907	8,666	Q	120.3	135.4
Packaged Air Conditioning Units	597	1,179	1,087	4,698	14,256	11,016	127.0	82.7	98.7
Swamp Coolers	46	76	Q	385	776	399	119.1	98.1	Q
Other	Q	Q	Q	Q	445	700	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	312	660	395	3,379	8,613	4,411	92.3	76.7	89.6
Cooling	402	835	712	3,903	10,012	7,080	102.9	83.4	100.5
Water Heating Equipment									
Centralized System	876	1,395	1,161	7,606	16,799	10,266	115.2	83.0	113.1
Distributed System	190	365	281	2,263	5,582	3,695	83.8	65.4	75.9
Combination of Centralized and Distributed System	Q	365	838	239	3,327	6,702	Q	109.8	125.1
Lighting Equipment Types (more than one may apply)									
Incandescent	614	1,457	1,846	5,979	16,896	15,653	102.7	86.2	117.9
Standard Fluorescent	1,125	2,138	2,381	11,305	27,126	21,256	99.5	78.8	112.0
Compact Fluorescent	316	1,078	1,814	2,232	10,936	14,403	141.5	98.5	126.0
High Intensity Discharge	127	670	1,344	998	7,559	12,086	127.5	88.7	111.2
Halogen	211	624	1,147	1,385	6,585	9,734	152.2	94.8	117.8
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	1,001	1,955	2,257	9,071	23,752	20,150	110.4	82.3	112.0
Commercial Refrigeration	561	976	1,799	2,716	9,350	14,702	206.5	104.4	122.3
Walk-In Units	466	706	1,594	1,824	5,937	12,493	255.5	118.8	127.6
Cases or Cabinets	485	767	1,450	2,216	7,057	11,151	219.0	108.7	130.0
Residential-Type Units	526	1,339	1,601	6,783	17,774	14,328	77.5	75.4	111.8
Vending Machines	248	1,411	2,061	2,237	15,323	17,775	110.9	92.1	116.0
No Refrigeration	186	253	Q	4,303	5,508	1,998	43.3	46.0	Q

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	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*	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
Office Equipment (more than one may apply)									
Computers	920	2,120	2,335	8,727	26,064	20,837	105.4	81.3	112.1
With Flat Screen Monitors	238	983	1,745	2,173	10,178	14,065	109.6	96.6	124.0
Dedicated Servers	328	1,406	2,027	2,790	15,713	17,835	117.4	89.5	113.6
Laser Printers	577	1,244	1,188	5,598	16,584	10,830	103.0	75.0	109.7
Inkjet Printers	402	1,292	1,608	3,821	14,731	13,658	105.2	87.7	117.7
FAX Machines	806	2,004	2,282	7,520	24,274	20,580	107.2	82.5	110.9
Photocopiers	422	1,827	2,217	5,167	21,434	19,657	81.7	85.2	112.8
Number of Computers									
None	267	88	Q	4,647	3,197	1,312	57.5	27.5	Q
1 to 4	564	345	Q	5,366	5,844	1,185	105.2	59.1	Q
5 to 9	193	300	Q	1,725	4,428	1,027	111.9	67.8	Q
10 to 19	93	324	98	1,031	4,055	1,524	89.8	80.0	64.3
20 to 49	64	449	194	569	4,639	2,207	112.0	96.8	88.0
50 to 99	Q	296	212	Q	3,297	2,045	Q	89.8	103.9
100 to 249	Q	324	388	Q	3,165	3,522	Q	102.3	110.1
250 or More	N	81	1,285	N	636	9,327	N	127.8	137.8
Number of Dedicated Servers									
None	860	802	398	10,585	13,547	4,314	81.2	59.2	92.2
1 to 4	309	1,103	822	2,667	13,017	8,432	115.7	84.7	97.5
5 to 9	Q	153	238	Q	1,491	2,305	Q	102.4	103.4
10 to 19	Q	88	340	Q	603	2,370	Q	145.5	143.3
20 to 49	N	Q	257	N	482	2,101	N	Q	122.2
50 or More	N	Q	370	N	Q	2,627	N	Q	140.9
Number of Photocopiers									
None	765	381	208	8,208	7,827	2,492	93.3	48.7	83.4
One	301	658	171	3,817	8,993	2,665	78.8	73.2	64.1
2 to 4	105	791	438	1,257	8,908	4,917	83.4	88.8	89.1
5 to 9	Q	223	372	Q	2,032	3,390	Q	109.9	109.8
10 or More	N	154	1,236	N	1,500	8,685	N	102.6	142.3
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	452	767	1,492	2,131	8,029	12,063	212.0	95.6	123.7
Activities with Large Amounts of Hot Water	303	757	1,405	1,477	7,554	10,451	204.9	100.3	134.5
Separate Computer Area	87	959	1,849	969	10,433	15,471	89.8	92.0	119.5
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	162	690	1,529	1,048	6,736	11,813	154.5	102.4	129.4
Economizer Cycle	168	812	1,609	1,102	7,217	12,789	152.2	112.6	125.8
HVAC Maintenance	837	1,939	2,394	7,133	23,011	21,019	117.4	84.3	113.9
Energy Management and Control System (EMCS)	53	523	1,206	364	4,973	10,294	146.3	105.2	117.1

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	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*	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	677	1,478	1,774	6,243	17,321	15,346	108.4	85.3	115.6
Tinted Window Glass	406	980	1,712	3,791	12,179	13,917	107.0	80.5	123.0
Reflective Window Glass	75	285	567	697	2,932	4,915	107.1	97.3	115.3
External Overhangs or Awnings	436	643	658	3,655	7,868	5,720	119.3	81.7	115.0
Skylights or Atriums	77	355	875	758	4,618	7,170	101.2	76.9	122.0
Daylighting Sensors	Q	77	272	216	789	1,864	Q	97.4	145.8
Specular Reflectors	241	923	1,665	2,184	10,058	13,875	110.2	91.8	120.0
Electronic Ballasts	762	1,750	2,234	7,346	20,431	19,105	103.7	85.6	117.0
Energy Management and Control System (EMCS) For Lighting	Q	131	393	Q	1,172	3,537	Q	112.1	111.1
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	740	1,471	1,529	8,161	19,476	15,084	90.7	75.5	101.4
Cooling	742	1,500	1,602	7,797	19,738	15,670	95.1	76.0	102.3
Lighting	995	1,668	1,155	10,689	23,175	13,123	93.1	72.0	88.0
Office Equipment	378	672	416	4,483	10,317	4,597	84.3	65.1	90.4

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	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*	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0
Building Floorspace (Square Feet)									
1,001 to 5,000	191	290	190	2,146	2,805	1,838	89.1	103.5	103.5
5,001 to 10,000	131	231	154	1,972	2,917	1,696	66.2	79.2	91.0
10,001 to 25,000	235	351	191	3,213	4,976	3,346	73.1	70.5	57.0
25,001 to 50,000	172	328	173	2,449	4,128	2,091	70.4	79.4	82.5
50,001 to 100,000	150	380	228	2,060	4,018	2,979	73.0	94.6	76.7
100,001 to 200,000	214	438	281	2,124	3,947	2,993	100.7	111.1	94.0
200,001 to 500,000	219	354	152	2,155	3,427	1,593	101.7	103.2	95.3
Over 500,000	176	421	Q	1,566	2,986	1,357	112.1	141.2	Q
Principal Building Activity									
Education	248	385	187	3,191	4,359	2,324	77.6	88.4	80.6
Food Sales	Q	116	Q	277	587	391	Q	197.0	Q
Food Service	89	152	187	613	524	517	144.4	290.1	361.2
Health Care	130	361	103	730	1,671	762	177.7	215.8	135.7
Inpatient	Q	311	Q	456	1,218	231	Q	255.3	Q
Outpatient	Q	50	45	273	453	531	Q	109.6	84.4
Lodging	109	286	114	1,236	2,564	1,296	Q	111.7	88.1
Retail (Other Than Mall)	76	115	128	1,026	1,804	1,487	73.9	63.5	86.4
Office	267	641	226	2,852	6,792	2,563	93.6	94.4	88.0
Public Assembly	90	156	124	1,455	1,450	1,035	62.0	107.6	119.7
Public Order and Safety	Q	39	Q	Q	385	453	Q	101.3	Q
Religious Worship	71	53	39	1,522	1,328	904	46.6	39.9	43.3
Service	66	168	78	1,057	1,954	1,040	62.8	85.9	74.8
Warehouse and Storage	166	156	134	2,029	4,014	4,034	81.6	38.8	33.3
Other	Q	142	Q	372	693	673	Q	Q	Q
Vacant	Q	Q	Q	1,073	1,080	415	Q	Q	Q
Census Region and Division									
Northeast	525	548	198	6,004	4,834	2,067	87.4	113.4	95.9
New England	101	135	Q	1,404	1,058	502	72.3	127.6	Q
Middle Atlantic	423	413	141	4,600	3,776	1,565	92.0	109.4	90.2
Midwest	550	748	393	5,679	7,415	3,986	96.8	100.8	98.5
East North Central	426	549	279	4,056	5,064	2,475	105.1	108.3	112.6
West North Central	123	199	114	1,623	2,351	1,511	76.0	84.6	75.4
South	257	969	721	3,659	11,032	8,798	70.4	87.9	82.0
South Atlantic	153	471	440	2,087	5,247	4,924	73.5	89.7	89.3
East South Central	41	182	86	583	1,703	1,108	69.9	107.1	77.7
West South Central	63	316	196	989	4,082	2,766	64.1	77.5	70.7
West	156	529	226	2,343	5,924	3,042	66.6	89.3	74.4
Mountain	51	255	76	524	2,217	934	97.0	114.9	81.2
Pacific	105	274	150	1,819	3,708	2,108	57.9	73.9	71.4
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	279	488	224	3,390	4,652	2,580	82.2	104.8	86.6
5,500-7,000 HDD	583	827	350	6,069	7,626	3,640	96.1	108.5	96.2
4,000-5,499 HDD	380	517	237	4,078	4,911	2,515	93.3	105.2	94.1
Fewer than 4,000 HDD	183	608	422	3,095	7,506	5,137	59.0	81.0	82.1
2,000 CDD or More and --									
Fewer than 4,000 HDD	63	354	307	1,052	4,511	4,021	60.0	78.4	76.3

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	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*	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0
Number of Floors									
One	377	863	698	4,849	11,814	9,318	77.7	73.0	74.9
Two	345	628	338	4,548	7,501	4,221	75.8	83.7	80.1
Three	250	241	128	3,470	2,465	1,565	72.1	97.7	82.0
Four to Nine	340	698	299	3,403	4,507	2,175	99.8	154.8	137.5
Ten or More	177	365	Q	1,415	2,919	613	124.9	124.9	Q
Elevators and Escalators (more than one may apply)									
Any Elevators	639	1,491	696	6,588	11,645	6,384	97.0	128.0	109.0
Number of Elevators									
One	171	341	220	2,392	3,249	2,580	71.6	104.9	85.1
Two to Five	260	614	284	2,821	4,792	2,516	92.0	128.1	112.8
Six or More	208	536	193	1,375	3,605	1,288	151.1	148.8	149.5
Any Escalators	Q	193	Q	Q	1,598	Q	Q	120.7	Q
Number of Workers (main shift)									
Fewer than 5	362	295	160	5,370	6,047	4,075	67.5	48.8	39.3
5 to 9	127	220	121	1,766	2,693	1,706	72.1	81.6	71.1
10 to 19	166	235	193	2,429	3,045	2,329	68.5	77.2	82.8
20 to 49	256	480	314	3,158	4,568	3,262	81.2	105.0	96.2
50 to 99	161	347	220	1,781	3,725	2,428	90.2	93.2	90.6
100 to 249	147	459	232	1,284	3,779	1,808	114.2	121.6	128.1
250 or More	268	758	299	1,896	5,347	2,285	141.4	141.7	130.8
Weekly Operating Hours									
Fewer than 40	88	94	46	2,541	2,798	1,525	34.5	33.7	30.0
40 to 48	253	363	157	3,627	5,079	2,917	69.8	71.5	53.8
49 to 60	385	536	259	4,564	7,382	3,777	84.4	72.5	68.5
61 to 84	258	414	252	2,728	4,615	2,991	94.6	89.6	84.3
85 to 167	152	379	359	1,353	2,859	2,880	112.5	132.5	124.5
Open Continuously	352	1,008	467	2,872	6,473	3,803	122.5	155.8	122.7
Ownership and Occupancy									
Nongovernment Owned	1,009	2,054	1,140	12,993	22,391	14,037	77.6	91.7	81.2
Owner Occupied	579	962	519	7,114	10,422	6,055	81.4	92.3	85.7
Nonowner Occupied	423	1,076	616	5,206	11,103	7,604	81.2	96.9	81.0
Unoccupied	Q	Q	Q	673	865	Q	Q	Q	Q
Government Owned	479	740	398	4,692	6,814	3,856	102.1	108.5	103.3
Federal	142	109	Q	843	737	Q	168.6	147.6	Q
State	86	304	123	838	2,122	848	103.1	143.1	145.4
Local	251	327	223	3,011	3,955	2,632	83.3	82.7	84.6
Vacancy Status									
Completely Vacant	Q	Q	Q	905	879	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	319	538	229	3,680	5,693	3,009	86.7	94.4	76.2
Not At All Vacant	1,146	2,231	1,303	12,933	22,432	14,469	88.6	99.5	90.1
Number of Establishments									
One	1,095	1,929	1,143	12,247	19,473	13,424	89.4	99.0	85.2
2 to 5	240	508	245	2,930	5,170	2,860	81.9	98.2	85.6
6 to 10	39	102	75	467	989	501	82.6	103.1	149.3
11 to 20	Q	93	Q	529	974	449	Q	95.3	Q
More than 20	Q	145	Q	607	1,720	Q	Q	84.5	Q
Currently Unoccupied	Q	Q	Q	905	879	Q	Q	Q	Q

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	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*	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0
Predominant Exterior Wall Material									
Brick, Stone or Stucco	1,111	1,372	703	12,922	13,061	6,834	86.0	105.0	102.8
Concrete (Block or Poured)	244	500	230	2,696	5,446	2,690	90.4	91.8	85.5
Concrete Panels	Q	419	233	166	3,595	2,798	Q	116.6	83.4
Siding or Shingles	72	105	100	1,186	1,526	1,407	60.4	69.0	70.8
Metal Panels	Q	236	192	524	4,016	3,372	Q	58.9	56.8
Window Glass	Q	60	Q	Q	624	Q	Q	95.5	Q
Other	Q	Q	Q	Q	730	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material									
Built-Up	578	1,119	386	6,646	10,567	3,957	86.9	105.9	97.6
Shingles (Not Wood)	265	351	207	3,347	4,170	2,678	79.1	84.2	77.1
Metal Surfacing	51	254	325	1,072	4,964	5,908	47.8	51.2	54.9
Synthetic or Rubber	308	822	519	3,530	6,959	4,240	87.3	118.1	122.3
Slate or Tile	91	58	58	1,185	705	572	76.8	82.3	101.9
Wooden Materials	Q	40	Q	314	464	Q	Q	86.5	Q
Concrete	Q	Q	Q	Q	666	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	830	937	N	9,146	8,698	N	90.7	107.7	N
Addition or Annex	290	443	N	3,069	3,482	N	94.3	127.3	N
Reduction In Floorspace	Q	Q	N	501	511	N	Q	Q	N
Cosmetic Improvements	606	712	N	6,751	6,368	N	89.7	111.8	N
Wall or Roof Replacement	343	434	N	4,168	3,903	N	82.3	111.2	N
Interior Wall Re-Configuration	378	534	N	4,191	4,327	N	90.1	123.3	N
HVAC Equipment Upgrade	510	646	N	5,436	5,332	N	93.9	121.2	N
Lighting Upgrade	489	596	N	5,483	4,792	N	89.2	124.4	N
Window Replacement	344	269	N	4,090	2,264	N	84.2	118.6	N
Plumbing System Upgrade	368	380	N	4,013	3,130	N	91.8	121.3	N
Insulation Upgrade	173	207	N	2,212	1,803	N	78.4	115.0	N
Other Renovation	Q	Q	N	451	Q	N	Q	Q	N
No Renovations Since 1980	658	823	N	8,539	10,175	N	77.1	80.9	N
Building Newer than 1980	N	1,034	1,539	N	10,332	17,893	N	100.1	86.0
Energy Sources (more than one may apply)									
Electricity	1,488	2,794	1,538	17,163	28,766	17,378	86.7	97.1	88.5
Natural Gas	1,082	2,175	1,235	12,097	19,763	11,608	89.4	110.1	106.4
Fuel Oil	481	908	370	4,995	6,951	3,211	96.4	130.7	115.3
District Heat	354	490	Q	2,206	2,330	908	160.6	210.4	Q
District Chilled Water	Q	286	Q	510	1,433	910	Q	199.4	Q
Propane	209	233	143	2,025	2,890	2,161	103.2	80.5	66.0
Other	21	84	Q	331	806	263	64.1	104.7	Q

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	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*	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0
Space-Heating Energy Sources (more than one may apply)									
Electricity	427	1,222	724	5,769	13,818	9,013	74.1	88.4	80.3
Natural Gas	881	1,793	1,007	10,050	17,081	9,828	87.7	105.0	102.5
Fuel Oil	293	225	73	3,466	1,895	627	84.4	118.8	116.6
District Heat	349	475	Q	2,147	2,171	880	162.4	218.7	Q
Propane	55	60	45	972	1,238	993	56.3	48.2	45.8
Other	Q	30	Q	203	465	Q	Q	64.5	Q
Primary Space-Heating Energy Source									
Electricity	112	587	390	1,886	8,416	5,694	59.2	69.7	68.6
Natural Gas	830	1,581	869	9,431	15,149	8,390	88.1	104.3	103.6
Fuel Oil	179	92	Q	2,583	958	Q	69.4	96.4	Q
District Heat	326	458	Q	2,001	2,044	862	163.0	224.1	Q
Propane	13	22	37	450	777	729	28.4	28.0	50.7
Other	Q	Q	Q	Q	198	Q	Q	Q	Q
Cooling Energy Sources (more than one may apply)									
Electricity	1,128	2,530	1,363	13,263	25,843	15,214	85.0	97.9	89.6
Natural Gas	Q	Q	Q	Q	419	Q	Q	Q	Q
District Chilled Water	Q	286	Q	510	1,433	910	Q	199.4	Q
Water-Heating Energy Sources (more than one may apply)									
Electricity	431	1,105	609	6,039	13,305	8,147	71.4	83.1	74.7
Natural Gas	765	1,507	934	8,044	13,116	7,661	95.0	114.9	122.0
Fuel Oil	92	92	Q	1,047	668	Q	Q	138.5	Q
District Heat	167	331	Q	1,127	1,622	340	148.1	203.9	Q
Propane	Q	29	Q	346	651	426	Q	44.5	Q
Cooking Energy Sources (more than one may apply)									
Electricity	333	834	412	3,320	6,449	3,392	100.4	129.3	121.5
Natural Gas	524	961	588	4,847	6,307	4,284	108.1	152.4	137.4
Propane	Q	50	Q	450	678	332	Q	74.0	Q
Energy End Uses (more than one may apply)									
Buildings with Space Heating	1,464	2,747	1,495	16,437	27,541	16,049	89.0	99.7	93.1
Buildings with Cooling	1,229	2,719	1,517	13,855	26,933	16,152	88.7	100.9	93.9
Buildings with Water Heating	1,291	2,708	1,500	14,569	26,409	15,499	88.6	102.5	96.8
Buildings with Cooking	694	1,289	729	6,760	9,776	5,701	102.7	131.9	127.9
Buildings with Manufacturing	67	115	72	928	1,480	730	72.7	77.9	98.0
Buildings with Electricity Generation	315	975	403	2,294	6,955	3,572	137.3	140.2	112.9
Percent of Floorspace Heated									
Not Heated	24	47	44	1,248	1,664	1,844	19.6	28.1	23.7
1 to 50	75	104	120	1,960	2,608	2,281	38.2	39.9	52.4
51 to 99	222	332	192	2,611	3,476	2,020	85.0	95.5	95.2
100	1,167	2,311	1,183	11,866	21,458	11,748	98.3	107.7	100.7

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	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*	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0
Percent of Floorspace Cooled									
Not Cooled	259	75	22	3,830	2,272	1,741	67.6	33.1	12.5
1 to 50	376	432	218	5,393	7,014	4,191	69.8	61.5	52.0
51 to 99	348	693	372	3,663	6,171	3,377	94.9	112.3	110.2
100	505	1,594	927	4,799	13,748	8,584	105.2	115.9	108.0
Percent Lit When Open									
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	227	191	122	3,977	3,766	2,461	57.1	50.6	49.7
51 to 99	433	888	415	4,889	9,002	4,398	88.5	98.7	94.3
100	804	1,692	993	7,611	15,221	9,957	105.6	111.2	99.8
Building Never Open/ Electricity Not Used	Q	Q	Q	1,155	1,172	883	Q	Q	Q
Percent Lit When Closed									
Zero	400	431	302	5,199	7,017	5,169	76.9	61.4	58.4
1 to 50	716	1,253	657	8,854	14,432	7,662	80.9	86.8	85.7
51 to 100	Q	101	113	238	961	894	Q	105.4	126.7
Building Never Closed/ Electricity Not Used	352	1,008	467	3,394	6,795	4,168	103.7	148.4	112.0
Heating Equipment (more than one may apply)									
Heat Pumps	136	422	247	1,617	4,223	2,973	83.9	99.9	83.1
Packaged Heat Pumps	78	307	138	796	3,059	1,587	98.5	100.3	86.7
Split-System Heat Pumps	23	104	71	364	1,214	1,003	63.6	85.7	70.8
Individual Room Heat Pumps	62	113	80	753	1,050	888	82.3	107.6	89.8
Furnaces	423	655	415	5,910	8,376	5,329	71.5	78.2	77.9
Individual Space Heaters	246	506	272	3,650	5,661	3,233	67.3	89.3	84.2
District Heat	349	467	Q	2,147	2,139	880	162.4	218.1	Q
Boilers	734	1,100	410	7,751	9,099	3,573	94.7	120.9	114.8
Packaged Heating Units	243	869	617	2,791	9,252	5,978	87.2	93.9	103.1
Other	Q	128	74	386	1,662	1,215	Q	77.2	61.0
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	301	389	234	3,470	4,779	2,786	86.6	81.4	84.1
Heat Pumps	150	418	269	1,699	4,241	3,102	88.0	98.7	86.8
Packaged Heat Pumps	90	301	138	860	2,997	1,569	104.4	100.3	88.1
Split-System Heat Pumps	29	103	73	419	1,205	981	68.5	85.2	74.3
Individual Room Heat Pumps	59	120	99	716	1,183	1,041	82.4	101.3	94.9
Individual Air Conditioners	448	456	177	5,406	5,295	1,858	82.8	86.0	95.1
District Chilled Water	Q	286	Q	510	1,433	910	Q	199.4	Q
Central Chillers	299	922	311	2,346	6,900	2,390	127.3	133.6	130.1
Packaged Air Conditioning Units	633	1,376	854	7,068	13,851	9,050	89.5	99.3	94.3
Swamp Coolers	Q	115	Q	221	1,072	269	Q	107.5	Q
Other	Q	Q	Q	416	528	287	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	429	938	N	6,052	10,351	N	70.9	90.7	N
Cooling	633	1,316	N	7,686	13,309	N	82.3	98.9	N

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	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*	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0
Water Heating Equipment									
Centralized System	848	1,686	899	8,889	16,543	9,240	95.4	101.9	97.3
Distributed System	195	374	266	3,221	4,871	3,448	60.6	76.9	77.1
Combination of Centralized and Distributed System	248	648	336	2,459	4,996	2,812	100.7	129.6	119.4
Lighting Equipment Types (more than one may apply)									
Incandescent	965	1,997	955	11,094	18,083	9,351	87.0	110.4	102.1
Standard Fluorescent	1,415	2,735	1,493	15,996	27,530	16,161	88.5	99.4	92.4
Compact Fluorescent	687	1,688	833	6,587	13,504	7,480	104.2	125.0	111.4
High Intensity Discharge	498	975	668	4,992	9,231	6,420	99.8	105.7	104.0
Halogen	427	994	561	4,079	8,102	5,522	104.6	122.6	101.7
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	1,230	2,527	1,456	13,973	24,165	14,836	88.0	104.6	98.1
Commercial Refrigeration	772	1,648	916	7,421	12,240	7,107	104.0	134.6	128.9
Walk-In Units	566	1,421	780	5,242	9,625	5,387	107.9	147.6	144.7
Cases or Cabinets	614	1,379	710	5,492	9,628	5,304	111.8	143.2	133.8
Residential-Type Units	912	1,666	888	11,110	17,563	10,211	82.1	94.9	87.0
Vending Machines	775	1,914	1,032	7,833	17,126	10,375	98.9	111.8	99.5
No Refrigeration	258	266	83	3,712	5,040	3,057	69.4	52.8	27.2
Office Equipment (more than one may apply)									
Computers	1,256	2,653	1,467	14,244	25,894	15,490	88.2	102.5	94.7
With Flat Screen Monitors	630	1,568	768	6,001	13,348	7,068	104.9	117.5	108.7
Dedicated Servers	771	1,959	1,031	8,136	17,936	10,265	94.7	109.2	100.4
Laser Printers	766	1,460	783	9,240	15,256	8,516	82.9	95.7	91.9
Inkjet Printers	675	1,675	953	6,987	15,573	9,650	96.5	107.5	98.8
FAX Machines	1,169	2,519	1,403	13,208	24,496	14,669	88.5	102.8	95.7
Photocopiers	1,037	2,248	1,180	11,473	21,832	12,952	90.4	103.0	91.1
Number of Computers									
None	232	141	72	3,441	3,311	2,403	67.3	42.5	30.0
1 to 4	306	392	318	4,022	5,011	3,362	76.0	78.3	94.4
5 to 9	139	237	170	2,124	2,820	2,236	65.7	83.9	75.9
10 to 19	103	253	159	1,268	3,254	2,088	81.1	77.8	76.2
20 to 49	156	332	220	1,808	3,178	2,428	86.0	104.4	90.4
50 to 99	135	276	102	1,607	2,523	1,246	83.8	109.4	81.8
100 to 249	149	362	202	1,507	3,277	1,907	99.2	110.5	106.0
250 or More	269	801	296	1,909	5,832	2,222	140.7	137.4	133.4
Number of Dedicated Servers									
None	717	835	508	9,549	11,269	7,628	75.1	74.1	66.6
1 to 4	470	1,138	625	5,444	11,560	7,112	86.4	98.5	87.9
5 to 9	98	179	129	1,078	1,607	1,180	90.8	111.2	109.2
10 to 19	104	221	107	795	1,468	764	130.8	150.8	139.6
20 to 49	Q	221	Q	239	1,921	423	Q	114.9	Q
50 or More	Q	200	118	581	1,380	787	Q	144.7	149.8

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	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*	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0
Number of Photocopiers									
None	451	546	358	6,212	7,374	4,941	72.6	74.0	72.5
One	325	451	354	4,324	6,116	5,035	75.1	73.7	70.3
2 to 4	283	696	355	3,669	7,155	4,258	77.3	97.2	83.4
5 to 9	114	297	201	1,256	2,754	1,505	90.5	107.9	133.6
10 or More	315	804	270	2,224	5,806	2,154	141.7	138.5	125.3
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	693	1,289	729	6,748	9,774	5,701	102.6	131.9	127.9
Activities with Large Amounts of Hot Water	533	1,271	661	4,912	9,140	5,430	108.6	139.1	121.8
Separate Computer Area	630	1,561	703	6,222	13,495	7,156	101.3	115.7	98.3
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	407	1,297	676	3,465	9,798	6,335	117.4	132.4	106.7
Economizer Cycle	424	1,461	703	3,618	11,196	6,294	117.2	130.5	111.7
HVAC Maintenance	1,242	2,501	1,427	13,084	23,507	14,572	94.9	106.4	97.9
Energy Management and Control System (EMCS)	326	985	471	2,975	8,078	4,577	109.6	122.0	102.8
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	850	1,876	1,203	9,646	16,720	12,544	88.1	112.2	95.9
Tinted Window Glass	567	1,669	862	5,566	15,091	9,231	101.9	110.6	93.4
Reflective Window Glass	161	479	286	1,579	4,009	2,956	102.0	119.6	96.8
External Overhangs or Awnings	344	902	491	4,147	8,148	4,947	82.9	110.7	99.1
Skylights or Atriums	245	686	376	2,666	6,130	3,750	91.9	111.8	100.3
Daylighting Sensors	49	197	130	448	1,407	1,014	110.1	140.3	128.4
Specular Reflectors	627	1,410	792	6,340	12,258	7,519	98.9	115.0	105.3
Electronic Ballasts	1,143	2,313	1,290	11,938	21,721	13,223	95.7	106.5	97.6
Energy Management and Control System (EMCS) For Lighting	59	306	174	565	2,606	1,610	103.8	117.5	107.9
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	937	1,836	967	11,574	20,077	11,070	81.0	91.4	87.4
Cooling	911	1,874	1,059	11,103	20,157	11,945	82.1	93.0	88.6
Lighting	1,096	1,701	1,021	13,346	20,951	12,690	82.2	81.2	80.4
Office Equipment	470	598	398	6,195	8,140	5,062	75.8	73.4	78.6

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

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	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*	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
				Primary	Site		
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	Total (million dollars)
All Buildings*	4,404	63,307	14.4	9,168	3,037	890	69,032
Building Floorspace (Square Feet)							
1,001 to 5,000	2,384	6,346	2.7	1,164	386	113	10,348
5,001 to 10,000	834	6,197	7.4	790	262	77	7,296
10,001 to 25,000	727	11,370	15.6	1,229	407	119	10,001
25,001 to 50,000	234	8,385	35.8	1,058	350	103	7,871
50,001 to 100,000	128	9,031	70.5	1,223	405	119	8,717
100,001 to 200,000	65	9,018	139.0	1,458	483	141	9,500
200,001 to 500,000	24	7,051	289.8	1,090	361	106	7,323
Over 500,000	7	5,908	896.1	1,157	383	112	7,977
Principal Building Activity							
Education	384	9,871	25.7	1,121	371	109	8,111
Food Sales	221	1,237	5.6	629	208	61	4,627
Food Service	297	1,654	5.6	654	217	63	5,176
Health Care	129	3,163	24.6	748	248	73	4,882
Inpatient	8	1,905	241.4	539	178	52	3,198
Outpatient	121	1,258	10.4	209	69	20	1,684
Lodging	142	5,096	35.8	709	235	69	5,288
Retail (Other Than Mall)	443	4,317	9.7	637	211	62	5,132
Office	824	12,208	14.8	2,170	719	211	17,050
Public Assembly	274	3,935	14.4	506	167	49	3,943
Public Order and Safety	71	1,090	15.5	172	57	17	1,216
Religious Worship	370	3,754	10.1	188	62	18	1,628
Service	601	3,982	6.6	451	149	44	3,485
Warehouse and Storage	464	9,425	20.3	738	244	72	5,034
Other	76	1,729	22.7	401	133	39	3,049
Vacant	106	1,846	17.3	46	15	4	412
Year Constructed							
Before 1920	318	3,730	11.7	271	90	26	2,319
1920 to 1945	499	6,595	13.2	626	208	61	5,123
1946 to 1959	541	6,838	12.6	696	231	68	5,729
1960 to 1969	571	8,057	14.1	989	327	96	7,714
1970 to 1979	700	10,555	15.1	1,726	572	168	12,637
1980 to 1989	668	10,154	15.2	1,892	627	184	13,902
1990 to 1999	809	12,078	14.9	2,082	690	202	15,236
2000 to 2003	298	5,299	17.8	884	293	86	6,373
Census Region and Division							
Northeast	710	12,809	18.0	1,519	503	147	14,262
New England	228	2,942	12.9	326	108	32	3,125
Middle Atlantic	482	9,867	20.5	1,192	395	116	11,137
Midwest	1,189	16,701	14.0	2,224	737	216	14,172
East North Central	659	11,373	17.3	1,580	524	153	10,220
West North Central	531	5,328	10.0	643	213	62	3,952
South	1,654	22,766	13.8	3,858	1,278	375	25,540
South Atlantic	835	12,097	14.5	2,166	717	210	14,155
East South Central	312	3,220	10.3	515	171	50	3,348
West South Central	507	7,449	14.7	1,177	390	114	8,037
West	851	11,030	13.0	1,568	519	152	15,057
Mountain	285	3,633	12.7	576	191	56	4,272
Pacific	565	7,397	13.1	992	329	96	10,786

Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
				Primary	Site		
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	Total (million dollars)
All Buildings*	4,404	63,307	14.4	9,168	3,037	890	69,032
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	809	10,393	12.8	1,232	408	120	9,135
5,500-7,000 HDD	1,129	17,076	15.1	2,305	763	224	16,298
4,000-5,499 HDD	642	11,375	17.7	1,713	567	166	13,354
Fewer than 4,000 HDD	1,193	15,172	12.7	2,259	748	219	18,211
2,000 CDD or More and --							
Fewer than 4,000 HDD	631	9,290	14.7	1,659	549	161	12,034
Number of Floors							
One	2,919	24,935	8.5	3,442	1,140	334	26,809
Two	1,011	15,978	15.8	2,080	689	202	16,066
Three	333	7,381	22.1	863	286	84	6,389
Four to Nine	128	10,065	78.7	1,796	595	174	12,517
Ten or More	12	4,947	420.0	987	327	96	7,251
Elevators and Escalators (more than one may apply)							
Any Elevators	305	24,495	80.3	4,289	1,421	416	30,227
Number of Elevators							
One	205	8,107	39.6	1,069	354	104	7,712
Two to Five	88	10,120	115.3	1,767	585	172	12,340
Six or More	13	6,268	491.5	1,453	481	141	10,175
Any Escalators	6	2,350	388.7	583	193	57	4,096
Number of Workers (main shift)							
Fewer than 5	2,415	14,061	5.8	1,122	372	109	9,503
5 to 9	775	6,147	7.9	749	248	73	6,390
10 to 19	563	7,803	13.9	915	303	89	7,647
20 to 49	397	10,962	27.6	1,581	524	154	11,966
50 to 99	147	7,934	53.8	1,218	403	118	8,532
100 to 249	77	6,871	89.7	1,388	460	135	9,768
250 or More	30	9,528	320.4	2,195	727	213	15,224
Weekly Operating Hours							
Fewer than 40	866	5,900	6.8	272	90	26	2,489
40 to 48	1,105	11,571	10.5	1,199	397	116	9,577
49 to 60	1,055	15,702	14.9	1,805	598	175	14,232
61 to 84	580	10,312	17.8	1,500	497	146	11,559
85 to 167	376	6,941	18.5	1,579	523	153	11,188
Open Continuously	422	12,881	30.5	2,813	932	273	19,987
Ownership and Occupancy							
Nongovernment Owned	3,783	48,012	12.7	6,944	2,300	674	54,122
Owner Occupied	1,817	23,454	12.9	3,280	1,086	318	25,441
Nonowner Occupied	1,885	23,258	12.3	3,639	1,205	353	28,446
Unoccupied	81	1,299	16.0	25	8	2	Q
Government Owned	620	15,295	24.7	2,224	737	216	14,910
Federal	46	1,951	42.8	395	131	38	2,159
State	163	3,786	23.2	616	204	60	3,973
Local	411	9,558	23.2	1,213	402	118	8,777

Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
				Primary	Site		
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	Total (million dollars)
All Buildings*	4,404	63,307	14.4	9,168	3,037	890	69,032
Vacancy Status							
Completely Vacant	85	1,489	17.5	28	9	3	258
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	499	12,199	24.4	1,736	575	169	13,209
Not At All Vacant	3,798	49,262	13.0	7,386	2,446	717	55,411
Number of Establishments							
One	3,591	44,379	12.4	6,454	2,138	627	48,376
2 to 5	635	10,921	17.2	1,517	502	147	11,440
6 to 10	55	1,958	35.7	348	115	34	2,632
11 to 20	23	1,951	85.7	295	98	29	2,268
More than 20	14	2,609	181.1	526	174	51	4,057
Currently Unoccupied	85	1,489	17.5	28	9	3	258
Predominant Exterior Wall Material							
Brick, Stone or Stucco	1,991	32,295	16.2	4,549	1,507	442	34,133
Concrete (Block or Poured)	756	10,738	14.2	1,599	530	155	12,417
Concrete Panels	122	6,383	52.2	1,205	399	117	8,417
Siding or Shingles	742	3,975	5.4	452	150	44	4,007
Metal Panels	714	7,377	10.3	897	297	87	6,726
Window Glass	17	1,024	60.1	201	67	20	1,462
Other	44	1,108	25.4	190	63	18	1,416
No One Major Type	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material							
Built-Up	1,008	20,781	20.6	3,143	1,041	305	24,170
Shingles (Not Wood)	1,283	9,871	7.7	1,247	413	121	10,264
Metal Surfacing	1,134	11,234	9.9	1,184	392	115	8,837
Synthetic or Rubber	504	14,711	29.2	2,686	890	261	18,633
Slate or Tile	257	2,438	9.5	313	104	30	2,816
Wooden Materials	119	881	7.4	111	37	11	869
Concrete	61	2,231	36.7	299	99	29	2,029
Other	13	595	44.4	125	41	12	845
No One Major Type	25	565	22.7	61	20	6	568
Renovations in Buildings Constructed Before 1980 (more than one may apply)							
Any Type of Renovation Since 1980	1,006	17,638	17.5	2,356	780	229	17,830
Addition or Annex	256	6,551	25.6	951	315	92	6,501
Reduction In Floorspace	22	1,012	46.1	158	52	15	1,180
Cosmetic Improvements	735	13,002	17.7	1,812	600	176	13,845
Wall or Roof Replacement	365	8,056	22.0	1,046	347	102	8,129
Interior Wall Re-Configuration	407	8,502	20.9	1,212	401	118	9,035
HVAC Equipment Upgrade	440	10,765	24.5	1,591	527	154	11,822
Lighting Upgrade	453	10,273	22.7	1,442	478	140	10,741
Window Replacement	307	6,277	20.5	757	251	73	6,168
Plumbing System Upgrade	313	7,141	22.8	947	314	92	7,360
Insulation Upgrade	225	4,012	17.8	526	174	51	4,065
Other Renovation	19	523	27.3	49	16	5	517
No Renovations Since 1980	1,622	18,137	11.2	1,953	647	190	15,691
Building Newer than 1980	1,776	27,532	15.5	4,859	1,609	472	35,511

Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
				Primary	Site		
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	Total (million dollars)
All Buildings*	4,404	63,307	14.4	9,168	3,037	890	69,032
Energy Sources (more than one may apply)							
Electricity	4,404	63,307	14.4	9,168	3,037	890	69,032
Natural Gas	2,390	43,461	18.2	6,524	2,161	633	48,584
Fuel Oil	448	15,142	33.8	2,578	854	250	18,631
District Heat	67	5,443	81.4	1,011	335	98	6,519
District Chilled Water	33	2,853	86.7	580	192	56	3,667
Propane	499	7,067	14.2	1,022	339	99	7,234
Other	126	1,380	11.0	233	77	23	1,539
Space-Heating Energy Sources							
Electricity	1,766	28,600	16.2	4,696	1,555	456	34,865
Electricity Main	1,258	15,996	12.7	2,739	907	266	20,527
Electricity Secondary	507	12,604	24.8	1,957	648	190	14,338
Other Excluding Electricity	2,206	31,391	14.2	4,191	1,388	407	31,387
Buildings without Heating	432	3,315	7.7	281	93	27	2,779
Primary Space-Heating Energy Source							
Electricity	1,258	15,996	12.7	2,739	907	266	20,527
Natural Gas	1,998	32,963	16.5	4,724	1,565	459	35,355
Fuel Oil	282	3,818	13.5	232	77	23	2,246
District Heat	63	4,907	77.4	935	310	91	5,910
Propane	305	1,946	6.4	211	70	20	1,909
Other	65	361	5.5	47	16	5	306
Cooling Energy Sources							
Electricity	3,589	54,321	15.1	8,386	2,778	814	63,402
Other Excluding Electricity	34	2,604	76.5	469	156	46	3,153
Buildings without Cooling	780	6,381	8.2	312	104	30	2,476
Water-Heating Energy Sources							
Electricity	1,910	27,490	14.4	4,146	1,373	402	30,298
Other Excluding Electricity	1,560	28,973	18.6	4,586	1,519	445	35,228
Bldgs without Water Heating	933	6,844	7.3	436	144	42	3,505
Cooking Energy Sources							
Electricity	410	13,161	32.1	2,561	848	249	17,845
Other Excluding Electricity	391	9,076	23.2	1,598	529	155	11,932
Buildings without Cooking	3,603	41,070	11.4	5,010	1,659	486	39,254
Energy End Uses (more than one may apply)							
Buildings with Space Heating	3,971	59,991	15.1	8,887	2,944	863	66,253
Buildings with Cooling	3,623	56,925	15.7	8,855	2,933	860	66,555
Buildings with Water Heating	3,470	56,463	16.3	8,732	2,892	848	65,526
Buildings with Cooking	801	22,237	27.8	4,158	1,377	404	29,777
Buildings with Manufacturing	119	3,138	26.5	426	141	41	3,117
Buildings with Electricity Generation	149	12,821	85.9	2,687	890	261	18,679

Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
				Primary	Site		
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	Total (million dollars)
All Buildings*	4,404	63,307	14.4	9,168	3,037	890	69,032
Percent of Floorspace Heated							
Not Heated	432	3,315	7.7	281	93	27	2,779
1 to 50	520	6,829	13.1	565	187	55	4,645
51 to 99	498	8,107	16.3	1,193	395	116	9,096
100	2,953	45,055	15.3	7,129	2,361	692	52,512
Percent of Floorspace Cooled							
Not Cooled	780	6,381	8.2	312	104	30	2,476
1 to 50	983	16,583	16.9	1,339	444	130	10,901
51 to 99	629	13,211	21.0	2,252	746	219	16,916
100	2,011	27,132	13.5	5,265	1,744	511	38,738
Percent Lit When Open							
Zero	Q	Q	Q	Q	Q	Q	Q
1 to 50	929	10,203	11.0	679	225	66	5,942
51 to 99	1,108	18,288	16.5	2,698	894	262	20,893
100	2,176	32,789	15.1	5,740	1,901	557	41,762
Building Never Open/ Electricity Not Used	144	1,733	12.1	37	12	4	325
Percent Lit When Closed							
Zero	1,964	17,385	8.9	1,639	543	159	13,104
1 to 50	1,882	30,948	16.4	4,248	1,407	412	32,796
51 to 100	136	2,093	15.4	468	155	45	3,144
Building Never Closed/ Electricity Not Used	422	12,881	30.5	2,813	932	273	19,987
Heating Equipment (more than one may apply)							
Heat Pumps	476	8,814	18.5	1,578	523	153	11,629
Packaged Heat Pumps	278	5,442	19.6	1,085	359	105	7,929
Split-System Heat Pumps	166	2,581	15.5	410	136	40	2,946
Individual Room Heat Pumps	58	2,691	46.5	448	148	43	3,289
Furnaces	1,860	19,604	10.5	2,298	761	223	17,887
Individual Space Heaters	819	12,540	15.3	1,701	563	165	12,387
District Heat	65	5,166	79.7	958	317	93	6,051
Boilers	579	20,423	35.3	3,045	1,009	296	22,045
Packaged Heating Units	953	18,021	18.9	3,195	1,058	310	24,318
Other	198	3,242	16.4	508	168	49	3,451
Cooling Equipment (more than one may apply)							
Residential-Type Central Air Conditioners	1,006	11,035	11.0	1,375	455	133	10,746
Heat Pumps	492	9,041	18.4	1,652	547	160	12,060
Packaged Heat Pumps	288	5,426	18.9	1,086	360	105	7,909
Split-System Heat Pumps	174	2,606	15.0	421	139	41	3,005
Individual Room Heat Pumps	58	2,940	50.7	518	171	50	3,721
Individual Air Conditioners	742	12,558	16.9	1,445	479	140	11,268
District Chilled Water	33	2,853	86.7	580	192	56	3,667
Central Chillers	111	11,636	105.1	2,524	836	245	17,065
Packaged Air Conditioning Units	1,613	29,969	18.6	4,765	1,578	463	36,258
Swamp Coolers	122	1,561	12.8	227	75	22	1,808
Other	37	1,217	32.5	225	75	22	1,540

Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
				Primary	Site		
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	Total (million dollars)
All Buildings*	4,404	63,307	14.4	9,168	3,037	890	69,032
Main Equipment Replaced Since 1990 (more than one may apply)							
Heating	1,193	16,394	13.7	2,161	716	210	16,626
Cooling	1,356	20,995	15.5	2,947	976	286	22,737
Water Heating Equipment							
Centralized System	2,511	34,656	13.8	5,310	1,759	515	40,871
Distributed System	785	11,540	14.7	1,458	483	142	11,253
Combination of Centralized and Distributed System	175	10,267	58.8	1,964	651	191	13,401
Lighting Equipment Types (more than one may apply)							
Incandescent	2,184	38,528	17.6	6,057	2,006	588	44,422
Standard Fluorescent	3,943	59,688	15.1	8,909	2,951	865	66,864
Compact Fluorescent	941	27,571	29.3	5,027	1,665	488	36,584
High Intensity Discharge	455	20,643	45.4	3,400	1,126	330	23,651
Halogen	565	17,703	31.3	3,226	1,069	313	23,011
Other	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)[a]							
Any Refrigeration	3,176	52,974	16.7	8,366	2,771	812	62,357
Commercial Refrigeration	1,007	26,768	26.6	5,397	1,788	524	38,581
Walk-In Units	666	20,254	30.4	4,496	1,489	436	31,769
Cases or Cabinets	825	20,424	24.8	4,349	1,441	422	31,335
Residential-Type Units	2,370	38,884	16.4	5,342	1,769	519	39,936
Vending Machines	996	35,335	35.5	5,992	1,985	582	42,043
No Refrigeration	1,227	10,333	8.4	802	266	78	6,675
Office Equipment (more than one may apply)							
Computers	3,081	55,627	18.1	8,567	2,838	832	64,010
With Flat Screen Monitors	877	26,417	30.1	4,797	1,589	466	34,985
Dedicated Servers	1,175	36,338	30.9	6,143	2,035	596	44,941
Laser Printers	1,970	33,012	16.8	4,679	1,550	454	36,031
Inkjet Printers	1,420	32,210	22.7	5,495	1,820	533	39,920
FAX Machines	2,715	52,373	19.3	8,154	2,701	792	60,928
Photocopiers	1,939	46,257	23.9	7,128	2,361	692	52,409
Number of Computers							
None	1,323	7,679	5.8	601	199	58	5,021
1 to 4	1,670	12,395	7.4	1,578	523	153	12,918
5 to 9	559	7,179	12.8	826	274	80	6,606
10 to 19	370	6,610	17.9	859	285	83	6,741
20 to 49	255	7,414	29.1	1,233	408	120	9,322
50 to 99	110	5,376	48.9	781	259	76	5,664
100 to 249	79	6,690	84.3	1,111	368	108	7,675
250 or More	38	9,963	264.3	2,179	722	212	15,085

Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
				Primary	Site		
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	Total (million dollars)
All Buildings*	4,404	63,307	14.4	9,168	3,037	890	69,032
Number of Dedicated Servers							
None	3,229	26,969	8.4	3,025	1,002	294	24,090
1 to 4	1,060	24,116	22.8	3,520	1,166	342	26,074
5 to 9	58	3,864	67.0	756	250	73	5,608
10 to 19	30	3,027	100.1	653	216	63	4,457
20 to 49	17	2,583	150.0	552	183	54	3,685
50 or More	10	2,748	276.6	662	219	64	5,118
Number of Photocopiers							
None	2,464	17,050	6.9	2,040	676	198	16,622
One	1,250	15,475	12.4	1,792	593	174	14,098
2 to 4	549	15,082	27.5	2,132	706	207	15,555
5 to 9	85	5,515	64.7	976	323	95	7,138
10 or More	54	10,185	187.2	2,229	738	216	15,618
Energy-Related Space Functions (more than one may apply)							
Commercial Food Preparation	799	22,223	27.8	4,155	1,376	403	29,771
Activities with Large Amounts of Hot Water	567	19,482	34.4	3,522	1,167	342	24,710
Separate Computer Area	553	26,873	48.6	4,678	1,550	454	33,308
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	466	19,597	42.1	3,827	1,267	371	26,726
Economizer Cycle	508	21,108	41.5	4,251	1,408	413	29,663
HVAC Maintenance	2,576	51,151	19.9	8,161	2,703	792	60,420
Energy Management and Control System (EMCS)	252	15,630	62.0	2,881	954	280	20,451
Window and Interior Lighting Features (more than one may apply)							
Multipaned Windows	2,175	38,727	17.8	6,109	2,024	593	43,784
Tinted Window Glass	1,313	29,625	22.6	5,077	1,682	493	37,166
Reflective Window Glass	305	8,529	27.9	1,576	522	153	11,302
External Overhangs or Awnings	1,220	17,172	14.1	2,900	961	282	21,798
Skylights or Atriums	324	12,508	38.6	1,948	645	189	14,007
Daylighting Sensors	74	2,868	38.7	623	206	60	4,847
Specular Reflectors	928	26,118	28.2	4,488	1,487	436	32,092
Electronic Ballasts	2,577	46,882	18.2	7,543	2,498	732	55,837
Energy Management and Control System (EMCS) For Lighting	60	4,781	80.1	939	311	91	6,922
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]							
Heating	2,876	42,707	14.8	5,828	1,930	566	45,100
Cooling	2,759	43,190	15.7	6,132	2,031	595	47,552
Lighting	3,685	46,987	12.7	6,057	2,006	588	46,811
Office Equipment	1,504	19,397	12.9	2,177	721	211	17,466

Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
				Primary	Site		
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	Total (million dollars)
All Buildings*	4,404	63,307	14.4	9,168	3,037	890	69,032
Annual Consumption (kilowatthours)							
10,000 or Less	757	2,861	3.8	39	13	4	476
10,001 to 50,000	1,698	9,228	5.4	463	153	45	4,668
50,001 to 100,000	705	6,461	9.2	532	176	52	5,055
100,001 to 500,000	954	16,111	16.9	2,157	715	209	18,053
500,001 to 1,000,000	142	6,737	47.5	999	331	97	7,735
1,000,001 to 5,000,000	129	13,209	102.6	2,769	917	269	18,537
Over 5,000,000	19	8,699	464.8	2,209	732	214	14,507
Provider of Purchased Electricity (more than one may apply)							
Local Utility	4,225	57,853	13.7	8,151	2,700	791	61,476
Some Other Provider	152	4,945	32.5	930	308	90	7,052

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 9.7 percent of total electricity consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use electricity.

Notes: ● Site electricity is the amount of electricity delivered to commercial buildings. Primary electricity, which is not included in the "Total of Major Fuels" category, is site electricity plus the conversion losses in the generation, transmission, and distribution processes. ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Electricity Consumption						Electricity Expenditures		
				Distribution of Building-Level Intensities (kWh/square foot)					
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
All Buildings*	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
Building Floorspace (Square Feet)									
1,001 to 5,000	47	17.8	11.4	3.8	8.9	20.3	4.3	1.63	0.092
5,001 to 10,000	92	12.4	10.3	3.8	7.4	14.5	8.7	1.18	0.095
10,001 to 25,000	164	10.5	11.1	2.9	6.3	13.4	13.8	0.88	0.084
25,001 to 50,000	439	12.2	11.6	3.8	8.8	16.2	33.6	0.94	0.077
50,001 to 100,000	927	13.1	14.1	4.5	9.9	17.0	68.0	0.97	0.073
100,001 to 200,000	2,181	15.7	12.2	5.3	13.0	23.4	146.4	1.05	0.067
200,001 to 500,000	4,347	15.0	15.4	5.8	12.1	20.7	301.0	1.04	0.069
Over 500,000	17,034	19.0	12.8	10.0	16.6	25.2	1209.8	1.35	0.071
Principal Building Activity									
Education	283	11.0	8.7	4.9	8.9	13.6	21.1	0.82	0.075
Food Sales	276	49.4	43.0	33.4	48.0	77.0	20.9	3.74	0.076
Food Service	213	38.4	20.3	18.8	37.4	70.3	17.4	3.13	0.082
Health Care	564	22.9	11.5	6.1	12.0	18.4	37.9	1.54	0.067
Inpatient	6,628	27.5	14.1	21.8	24.0	35.6	405.3	1.68	0.061
Outpatient	168	16.1	7.8	5.8	11.3	16.5	13.9	1.34	0.083
Lodging	483	13.5	28.0	6.7	11.9	17.7	37.1	1.04	0.077
Retail (Other Than Mall)	139	14.3	17.8	4.3	9.4	18.4	11.6	1.19	0.083
Office	256	17.3	7.5	6.5	11.5	17.6	20.7	1.40	0.081
Public Assembly	179	12.5	20.5	2.2	5.1	11.3	14.4	1.00	0.080
Public Order and Safety	237	15.3	12.4	4.0	7.9	17.6	17.2	1.12	0.073
Religious Worship	49	4.9	10.7	1.9	3.5	6.0	4.4	0.43	0.089
Service	73	11.0	12.0	3.0	6.3	11.8	5.8	0.88	0.080
Warehouse and Storage	154	7.6	16.7	1.4	3.1	6.2	10.8	0.53	0.070
Other	510	22.5	21.4	3.5	7.2	20.3	40.0	1.76	0.078
Vacant	42	2.4	Q	0.4	1.7	3.8	3.9	0.22	0.092
Year Constructed									
Before 1920	83	7.1	8.7	1.6	3.9	9.6	7.3	0.62	0.088
1920 to 1945	122	9.2	9.9	3.2	6.9	13.9	10.3	0.78	0.084
1946 to 1959	125	9.9	10.2	3.1	6.4	14.3	10.6	0.84	0.085
1960 to 1969	168	11.9	11.0	3.4	7.4	14.7	13.5	0.96	0.080
1970 to 1979	239	15.9	13.3	4.4	9.5	21.4	18.1	1.20	0.075
1980 to 1989	275	18.1	12.2	4.8	10.1	20.5	20.8	1.37	0.076
1990 to 1999	250	16.7	12.5	4.7	10.5	22.6	18.8	1.26	0.075
2000 to 2003	288	16.2	19.2	3.1	7.8	18.3	21.4	1.20	0.074
Census Region and Division									
Northeast	208	11.5	9.9	2.4	6.1	14.2	20.1	1.11	0.097
New England	139	10.8	10.0	1.8	4.3	13.2	13.7	1.06	0.099
Middle Atlantic	240	11.7	9.8	2.9	6.9	15.2	23.1	1.13	0.096
Midwest	182	12.9	13.2	3.5	7.9	15.9	11.9	0.85	0.066
East North Central	233	13.5	13.4	4.2	8.3	19.1	15.5	0.90	0.067
West North Central	118	11.7	12.8	3.0	7.2	13.6	7.4	0.74	0.063
South	226	16.5	13.9	4.1	9.2	19.7	15.4	1.12	0.068
South Atlantic	252	17.4	12.6	4.2	9.7	19.7	17.0	1.17	0.067
East South Central	160	15.5	16.4	3.8	8.4	19.8	10.7	1.04	0.067
West South Central	226	15.3	15.8	4.0	9.0	19.3	15.9	1.08	0.070
West	179	13.8	10.6	4.0	9.2	15.2	17.7	1.37	0.099
Mountain	196	15.4	13.1	4.3	8.6	14.4	15.0	1.18	0.076
Pacific	170	13.0	9.5	3.8	9.3	15.7	19.1	1.46	0.112

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

	Electricity Consumption						Electricity Expenditures		
				Distribution of Building-Level Intensities (kWh/square foot)					
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
All Buildings*	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	148	11.5	11.6	2.9	7.2	15.0	11.3	0.88	0.076
5,500-7,000 HDD	198	13.1	12.9	3.2	7.4	15.4	14.4	0.95	0.073
4,000-5,499 HDD	259	14.6	11.9	3.9	8.0	17.6	20.8	1.17	0.080
Fewer than 4,000 HDD	184	14.5	12.8	3.8	8.3	16.4	15.3	1.20	0.083
2,000 CDD or More and --									
Fewer than 4,000 HDD	255	17.3	11.5	4.9	12.7	22.9	19.1	1.30	0.075
Number of Floors									
One	114	13.4	14.1	3.7	8.2	18.0	9.2	1.08	0.080
Two	200	12.6	12.5	3.5	8.3	16.5	15.9	1.01	0.080
Three	251	11.4	10.5	3.1	7.1	14.9	19.2	0.87	0.076
Four to Nine	1,363	17.3	11.0	3.5	10.7	18.3	97.9	1.24	0.072
Ten or More	8,134	19.4	10.6	12.1	18.1	25.2	615.6	1.47	0.076
Elevators and Escalators (more than one may apply)									
Any Elevators	1,365	17.0	11.4	5.8	12.6	20.7	99.1	1.23	0.073
Number of Elevators									
One	508	12.8	11.4	5.2	10.6	18.3	37.7	0.95	0.074
Two to Five	1,955	17.0	10.8	8.1	16.9	25.2	140.6	1.22	0.072
Six or More	11,057	22.5	12.2	12.5	19.0	29.5	797.9	1.62	0.072
Any Escalators	9,366	24.1	14.0	10.4	14.9	22.6	677.6	1.74	0.072
Number of Workers (main shift)									
Fewer than 5	45	7.7	23.9	2.4	5.4	12.3	3.9	0.68	0.087
5 to 9	94	11.8	14.4	5.5	10.3	20.5	8.2	1.04	0.088
10 to 19	158	11.4	12.2	5.9	10.8	20.6	13.6	0.98	0.086
20 to 49	386	14.0	13.0	8.1	13.6	21.3	30.1	1.09	0.078
50 to 99	802	14.9	12.4	8.9	15.0	21.7	57.9	1.08	0.072
100 to 249	1,759	19.6	12.1	10.9	19.1	30.4	127.5	1.42	0.072
250 or More	7,165	22.4	9.1	14.8	22.8	29.4	511.9	1.60	0.071
Weekly Operating Hours									
Fewer than 40	30	4.5	8.0	1.6	3.2	6.5	2.9	0.42	0.094
40 to 48	105	10.1	8.5	4.0	7.5	12.9	8.7	0.83	0.082
49 to 60	166	11.2	9.2	4.2	8.7	15.7	13.5	0.91	0.081
61 to 84	251	14.1	12.5	7.1	13.8	27.1	19.9	1.12	0.079
85 to 167	408	22.1	14.7	13.8	33.4	58.5	29.8	1.61	0.073
Open Continuously	647	21.2	18.8	4.9	13.7	29.5	47.4	1.55	0.073
Ownership and Occupancy									
Nongovernment Owned	178	14.0	12.7	3.4	8.0	17.9	14.3	1.13	0.080
Owner Occupied	175	13.6	11.8	3.5	7.2	15.1	14.0	1.08	0.080
Nonowner Occupied	187	15.2	13.5	3.6	9.4	21.7	15.1	1.22	0.081
Unoccupied	30	1.9	N	0.4	1.7	3.4	2.9	Q	Q
Government Owned	348	14.1	11.1	4.8	9.3	15.3	24.0	0.97	0.069
Federal	842	19.7	15.8	4.3	9.2	17.3	47.3	1.11	0.056
State	366	15.8	8.3	5.9	9.1	14.5	24.3	1.05	0.066
Local	286	12.3	12.0	4.8	9.5	15.8	21.3	0.92	0.075

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

	Electricity Consumption						Electricity Expenditures		
				Distribution of Building-Level Intensities (kWh/square foot)					
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
All Buildings*	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
Vacancy Status									
Completely Vacant	32	1.8	N	0.4	1.5	3.4	3.0	0.17	0.096
Mostly Vacant	Q	Q	Q	1.4	3.0	8.0	Q	Q	Q
Partially Vacant	338	13.8	9.9	2.9	6.7	14.2	26.5	1.08	0.078
Not At All Vacant	189	14.6	12.9	3.9	8.7	18.3	14.6	1.12	0.077
Number of Establishments									
One	174	14.1	14.2	3.7	8.3	18.2	13.5	1.09	0.077
2 to 5	232	13.5	11.3	3.9	8.7	15.3	18.0	1.05	0.078
6 to 10	616	17.3	5.2	5.5	11.2	18.3	48.0	1.34	0.078
11 to 20	1,259	14.7	8.6	4.7	14.2	19.1	99.6	1.16	0.079
More than 20	3,544	19.6	8.6	3.0	10.5	18.7	281.6	1.56	0.079
Currently Unoccupied	32	1.8	N	0.4	1.5	3.4	3.0	0.17	0.096
Predominant Exterior Wall Material									
Brick, Stone or Stucco	222	13.7	12.0	4.4	9.7	20.3	17.1	1.06	0.077
Concrete (Block or Poured)	205	14.5	14.9	4.0	9.4	20.0	16.4	1.16	0.080
Concrete Panels	956	18.3	10.8	5.8	11.3	26.2	68.8	1.32	0.072
Siding or Shingles	59	11.0	9.6	3.3	7.4	14.1	5.4	1.01	0.091
Metal Panels	122	11.8	14.1	2.1	4.5	9.7	9.4	0.91	0.077
Window Glass	1,148	19.1	10.2	6.6	17.0	27.6	85.8	1.43	0.075
Other	423	16.7	12.0	2.0	9.5	21.6	32.4	1.28	0.077
No One Major Type	Q	Q	Q	1.1	5.4	10.4	Q	Q	Q
Predominant Roof Material									
Built-Up	303	14.7	11.8	4.9	11.3	24.4	24.0	1.16	0.079
Shingles (Not Wood)	94	12.3	11.6	3.2	7.1	14.7	8.0	1.04	0.085
Metal Surfacing	101	10.2	13.7	2.4	5.3	11.1	7.8	0.79	0.077
Synthetic or Rubber	518	17.7	12.6	6.0	12.3	24.5	37.0	1.27	0.071
Slate or Tile	118	12.5	10.1	5.0	9.7	19.6	11.0	1.16	0.093
Wooden Materials	91	12.2	11.1	4.2	8.3	15.7	7.3	0.99	0.081
Concrete	477	Q	14.8	6.2	11.4	24.2	33.4	Q	0.070
Other	908	20.4	18.6	5.8	15.3	39.2	63.2	1.42	0.070
No One Major Type	237	10.4	8.8	3.0	5.8	21.6	22.8	1.01	0.097
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	227	13.0	11.2	3.7	8.2	15.7	17.7	1.01	0.078
Addition or Annex	360	14.1	13.9	4.0	8.7	17.0	25.4	0.99	0.070
Reduction In Floorspace	699	15.2	14.2	7.4	13.1	29.5	53.7	1.17	0.077
Cosmetic Improvements	239	13.5	11.1	3.7	8.0	15.8	18.8	1.06	0.079
Wall or Roof Replacement	278	12.6	10.0	3.2	6.9	15.0	22.2	1.01	0.080
Interior Wall Re-Configuration	289	13.8	10.5	4.1	8.2	17.5	22.2	1.06	0.077
HVAC Equipment Upgrade	351	14.4	11.2	4.3	8.2	16.0	26.9	1.10	0.077
Lighting Upgrade	309	13.6	11.2	3.7	8.0	15.4	23.7	1.05	0.077
Window Replacement	239	11.7	9.8	4.0	7.2	13.5	20.1	0.98	0.084
Plumbing System Upgrade	294	12.9	10.5	3.9	7.9	15.0	23.5	1.03	0.080
Insulation Upgrade	227	12.7	10.2	3.0	6.7	13.2	18.0	1.01	0.080
Other Renovation	246	9.0	9.9	3.7	10.1	24.0	27.0	0.99	0.110
No Renovations Since 1980	117	10.5	11.4	3.1	6.7	14.1	9.7	0.87	0.083
Building Newer than 1980	266	17.1	13.2	4.4	10.0	20.6	20.0	1.29	0.075

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

	Electricity Consumption						Electricity Expenditures		
				Distribution of Building-Level Intensities (kWh/square foot)					
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
All Buildings*	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
Energy Sources (more than one may apply)									
Electricity	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
Natural Gas	265	14.6	12.2	4.3	8.8	18.5	20.3	1.12	0.077
Fuel Oil	558	16.5	12.8	2.2	5.5	14.0	41.5	1.23	0.074
District Heat	1,467	18.0	9.6	6.4	12.6	20.4	97.5	1.20	0.066
District Chilled Water	1,711	19.7	7.8	10.9	15.3	23.1	111.4	1.29	0.065
Propane	199	14.0	16.9	3.3	6.9	14.0	14.5	1.02	0.073
Other	180	16.4	12.1	2.8	5.3	11.2	12.2	1.11	0.068
Space-Heating Energy Sources									
Electricity	258	15.9	13.4	5.5	11.3	20.8	19.7	1.22	0.076
Electricity Main	211	16.6	13.7	6.3	12.6	23.3	16.3	1.28	0.077
Electricity Secondary	375	15.1	13.1	4.7	8.7	16.1	28.3	1.14	0.075
Other Excluding Electricity	184	13.0	11.0	3.3	6.9	14.1	14.2	1.00	0.077
Buildings without Heating	63	8.2	14.0	0.9	2.8	12.2	6.4	0.84	0.102
Primary Space-Heating Energy Source									
Electricity	211	16.6	13.7	6.3	12.6	23.3	16.3	1.28	0.077
Natural Gas	230	13.9	12.5	4.2	8.0	16.0	17.7	1.07	0.077
Fuel Oil	80	5.9	8.4	1.8	3.4	8.2	8.0	0.59	0.100
District Heat	1,432	18.5	9.3	4.9	12.6	20.7	93.3	1.20	0.065
Propane	67	10.5	10.7	2.9	6.2	12.0	6.3	0.98	0.093
Other	70	12.6	15.9	2.5	4.0	9.4	4.7	0.85	0.067
Cooling Energy Sources									
Electricity	227	15.0	12.9	4.9	9.8	19.4	17.7	1.17	0.078
Other Excluding Electricity	1,340	17.5	6.6	7.0	11.2	19.1	92.7	1.21	0.069
Buildings without Cooling	39	4.8	11.8	1.1	2.4	5.1	3.2	0.39	0.082
Water-Heating Energy Sources									
Electricity	211	14.6	12.3	4.4	9.6	18.5	15.9	1.10	0.075
Other Excluding Electricity	285	15.4	12.2	4.8	9.9	20.1	22.6	1.22	0.079
Bldgs without Water Heating	45	6.2	12.1	1.5	3.7	9.1	3.8	0.51	0.083
Cooking Energy Sources									
Electricity	606	18.9	15.5	6.9	18.3	39.5	43.5	1.36	0.072
Other Excluding Electricity	397	17.1	13.8	6.3	15.0	40.7	30.5	1.31	0.077
Buildings without Cooking	135	11.8	10.7	3.3	7.2	14.2	10.9	0.96	0.081
Energy End Uses (more than one may apply)									
Buildings with Space Heating	217	14.4	12.2	4.1	8.7	17.7	16.7	1.10	0.077
Buildings with Cooling	237	15.1	12.3	4.9	9.9	19.4	18.4	1.17	0.077
Buildings with Water Heating	244	15.0	12.2	4.6	9.7	19.2	18.9	1.16	0.077
Buildings with Cooking	504	18.2	14.8	6.6	16.5	40.0	37.2	1.34	0.074
Buildings with Manufacturing	349	13.2	14.4	3.1	6.7	9.9	26.3	0.99	0.075
Buildings with Electricity Generation	1,748	20.3	13.5	9.9	16.7	25.8	125.2	1.46	0.072

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

	Electricity Consumption						Electricity Expenditures		
				Distribution of Building-Level Intensities (kWh/square foot)					
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
All Buildings*	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
Percent of Floorspace Heated									
Not Heated	63	8.2	14.0	0.9	2.8	12.2	6.4	0.84	0.102
1 to 50	105	8.0	13.3	2.4	4.8	9.2	8.9	0.68	0.085
51 to 99	233	14.3	12.0	4.0	8.4	18.5	18.3	1.12	0.079
100	234	15.4	12.1	4.6	9.7	18.6	17.8	1.17	0.076
Percent of Floorspace Cooled									
Not Cooled	39	4.8	11.8	1.1	2.4	5.1	3.2	0.39	0.082
1 to 50	132	7.8	11.7	3.1	5.7	10.1	11.1	0.66	0.084
51 to 99	348	16.5	13.2	6.1	11.2	22.5	26.9	1.28	0.077
100	254	18.8	12.0	6.2	12.4	23.1	19.3	1.43	0.076
Percent Lit When Open									
Zero	Q	Q	Q	0.8	1.2	1.9	Q	Q	Q
1 to 50	71	6.5	14.9	2.3	4.7	9.7	6.4	0.58	0.090
51 to 99	236	14.3	9.8	4.4	8.8	17.1	18.9	1.14	0.080
100	256	17.0	13.4	5.0	11.1	21.9	19.2	1.27	0.075
Building Never Open/ Electricity Not Used	25	2.1	Q	0.4	1.7	3.8	2.3	0.19	0.090
Percent Lit When Closed									
Zero	81	9.2	8.8	2.5	5.5	11.4	6.7	0.75	0.082
1 to 50	219	13.3	11.0	5.1	10.8	21.5	17.4	1.06	0.080
51 to 100	333	21.7	16.3	6.3	12.9	32.6	23.1	1.50	0.069
Building Never Closed/ Electricity Not Used	647	21.2	18.8	4.9	13.7	29.5	47.4	1.55	0.073
Heating Equipment (more than one may apply)									
Heat Pumps	322	17.4	14.2	6.4	12.2	22.2	24.4	1.32	0.076
Packaged Heat Pumps	379	19.3	14.1	7.4	13.2	24.1	28.5	1.46	0.075
Split-System Heat Pumps	239	15.4	14.4	5.1	9.2	21.0	17.7	1.14	0.074
Individual Room Heat Pumps	751	16.1	14.6	9.8	13.6	20.7	56.9	1.22	0.076
Furnaces	120	11.4	12.0	3.5	7.1	14.1	9.6	0.91	0.080
Individual Space Heaters	202	13.2	12.8	4.0	8.4	14.9	15.1	0.99	0.075
District Heat	1,435	18.0	9.5	4.9	12.6	20.7	93.3	1.17	0.065
Boilers	511	14.5	12.6	3.4	7.9	16.6	38.1	1.08	0.075
Packaged Heating Units	326	17.2	13.7	6.1	12.7	24.8	25.5	1.35	0.078
Other	249	15.2	14.3	4.2	8.8	16.9	17.4	1.06	0.070
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	133	12.1	11.7	4.5	8.6	15.8	10.7	0.97	0.081
Heat Pumps	326	17.7	14.6	6.6	12.0	22.4	24.5	1.33	0.075
Packaged Heat Pumps	366	19.4	14.1	7.2	12.6	23.8	27.5	1.46	0.075
Split-System Heat Pumps	235	15.7	14.8	5.9	10.9	21.5	17.3	1.15	0.074
Individual Room Heat Pumps	867	17.1	15.4	9.7	13.6	21.7	64.2	1.27	0.074
Individual Air Conditioners	189	11.2	12.2	3.6	6.8	13.5	15.2	0.90	0.080
District Chilled Water	1,711	19.7	7.8	10.9	15.3	23.1	111.4	1.29	0.065
Central Chillers	2,212	21.1	14.0	11.2	16.9	25.9	154.1	1.47	0.070
Packaged Air Conditioning Units	287	15.4	12.9	5.6	11.5	23.4	22.5	1.21	0.078
Swamp Coolers	181	14.1	13.3	4.0	10.1	19.9	14.8	1.16	0.082
Other	584	18.0	13.1	8.7	12.8	23.4	41.2	1.27	0.070

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

	Electricity Consumption						Electricity Expenditures		
				Distribution of Building-Level Intensities (kWh/square foot)					
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
All Buildings*	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	176	12.8	12.4	4.0	8.3	16.2	13.9	1.01	0.079
Cooling	211	13.6	11.7	4.5	9.2	18.3	16.8	1.08	0.079
Water Heating Equipment									
Centralized System	205	14.9	12.9	4.8	10.1	20.1	16.3	1.18	0.079
Distributed System	180	12.3	12.0	4.0	8.0	15.8	14.3	0.98	0.080
Combination of Centralized and Distributed System	1,092	18.6	10.9	8.4	13.5	22.5	76.8	1.31	0.070
Lighting Equipment Types (more than one may apply)									
Incandescent	269	15.3	12.0	3.6	8.4	16.9	20.3	1.15	0.076
Standard Fluorescent	219	14.5	12.2	4.2	8.9	18.4	17.0	1.12	0.077
Compact Fluorescent	519	17.7	13.3	5.1	11.4	23.7	38.9	1.33	0.075
High Intensity Discharge	725	16.0	12.7	5.0	10.1	18.6	52.0	1.15	0.072
Halogen	554	17.7	13.7	4.9	11.2	23.3	40.7	1.30	0.073
Other	Q	Q	Q	25.1	35.6	49.8	Q	Q	Q
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	256	15.3	12.4	4.7	10.0	20.8	19.6	1.18	0.077
Commercial Refrigeration	520	19.6	16.2	9.2	21.9	48.0	38.3	1.44	0.074
Walk-In Units	655	21.5	17.3	13.4	32.2	58.5	47.7	1.57	0.073
Cases or Cabinets	512	20.7	16.6	9.6	23.5	49.9	38.0	1.53	0.074
Residential-Type Units	219	13.3	10.8	4.1	8.4	15.5	16.9	1.03	0.077
Vending Machines	584	16.5	12.7	5.6	11.5	22.2	42.2	1.19	0.072
No Refrigeration	63	7.5	10.9	2.0	4.4	10.1	5.4	0.65	0.086
Office Equipment (more than one may apply)									
Computers	270	15.0	12.0	5.0	9.9	18.7	20.8	1.15	0.077
With Flat Screen Monitors	531	17.6	11.0	6.6	12.0	20.3	39.9	1.32	0.075
Dedicated Servers	508	16.4	11.4	6.9	12.3	20.7	38.3	1.24	0.075
Laser Printers	231	13.8	11.3	4.7	9.0	17.6	18.3	1.09	0.079
Inkjet Printers	376	16.6	12.2	6.2	11.3	20.2	28.1	1.24	0.075
FAX Machines	292	15.1	11.8	5.3	10.3	19.3	22.4	1.16	0.077
Photocopiers	357	15.0	11.3	4.9	9.8	17.4	27.0	1.13	0.076
Number of Computers									
None	44	7.6	15.9	1.8	4.1	11.6	3.8	0.65	0.086
1 to 4	92	12.4	17.6	4.1	8.1	17.6	7.7	1.04	0.084
5 to 9	143	11.2	13.3	5.8	9.5	18.3	11.8	0.92	0.082
10 to 19	226	12.6	12.2	7.3	11.9	19.3	18.2	1.02	0.081
20 to 49	470	16.1	12.7	8.8	13.5	21.7	36.6	1.26	0.078
50 to 99	690	14.1	10.9	7.7	13.4	19.2	51.5	1.05	0.075
100 to 249	1,359	16.1	12.2	7.9	14.7	23.5	96.7	1.15	0.071
250 or More	5,611	21.2	9.5	11.4	19.0	29.4	400.1	1.51	0.071

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

	Electricity Consumption						Electricity Expenditures		
				Distribution of Building-Level Intensities (kWh/square foot)					
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
All Buildings*	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
Number of Dedicated Servers									
None	91	10.9	14.5	2.9	6.6	15.1	7.5	0.89	0.082
1 to 4	323	14.2	12.8	6.6	11.7	19.7	24.6	1.08	0.076
5 to 9	1,272	19.0	12.1	11.2	17.0	25.9	97.3	1.45	0.076
10 to 19	2,096	20.9	7.4	10.0	18.9	29.4	147.3	1.47	0.070
20 to 49	3,109	20.7	11.2	9.9	18.7	25.3	213.9	1.43	0.069
50 or More	6,472	23.4	10.1	17.9	18.2	31.2	515.2	1.86	0.080
Number of Photocopiers									
None	80	11.6	17.4	2.8	6.9	16.9	6.7	0.97	0.084
One	139	11.2	13.9	4.3	8.4	15.0	11.3	0.91	0.081
2 to 4	377	13.7	12.0	6.1	11.0	18.2	28.3	1.03	0.075
5 to 9	1,110	17.2	8.9	10.1	15.6	29.3	83.7	1.29	0.075
10 or More	3,977	21.2	10.4	11.3	17.6	23.9	287.0	1.53	0.072
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	505	18.2	14.8	6.6	16.5	40.3	37.2	1.34	0.074
Activities with Large Amounts of Hot Water	603	17.6	15.7	7.2	13.2	26.0	43.6	1.27	0.072
Separate Computer Area	821	16.9	12.0	6.6	11.5	19.2	60.2	1.24	0.073
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	798	19.0	12.1	7.5	14.2	26.5	57.4	1.36	0.072
Economizer Cycle	812	19.5	12.8	8.2	14.9	27.3	58.3	1.41	0.072
HVAC Maintenance	308	15.5	12.5	4.8	10.4	20.0	23.5	1.18	0.076
Energy Management and Control System (EMCS)	1,109	17.9	12.9	8.0	13.6	23.7	81.1	1.31	0.073
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	273	15.3	13.5	4.5	9.3	18.4	20.1	1.13	0.074
Tinted Window Glass	375	16.6	12.2	4.8	11.0	21.3	28.3	1.25	0.075
Reflective Window Glass	501	17.9	12.4	4.7	9.5	18.9	37.0	1.33	0.074
External Overhangs or Awnings	231	16.4	12.6	5.8	11.4	23.2	17.9	1.27	0.077
Skylights or Atriums	584	15.1	13.4	4.1	8.7	15.9	43.2	1.12	0.074
Daylighting Sensors	816	21.1	16.0	5.6	10.1	25.6	65.4	1.69	0.080
Specular Reflectors	470	16.7	13.2	5.4	10.4	18.6	34.6	1.23	0.074
Electronic Ballasts	284	15.6	12.4	4.5	9.5	19.3	21.7	1.19	0.076
Energy Management and Control System (EMCS) For Lighting	1,528	19.1	12.8	10.8	17.8	34.5	116.0	1.45	0.076
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	197	13.2	11.5	3.7	7.6	15.4	15.7	1.06	0.080
Cooling	216	13.8	11.0	4.5	8.9	16.7	17.2	1.10	0.080
Lighting	160	12.5	10.4	3.9	8.4	16.5	12.7	1.00	0.080
Office Equipment	141	10.9	10.5	4.3	8.1	14.1	11.6	0.90	0.083

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

	Electricity Consumption						Electricity Expenditures		
				Distribution of Building-Level Intensities (kWh/square foot)					
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
All Buildings*	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
Annual Consumption (kilowatthours)									
10,000 or Less	5	1.3	2.8	1.0	1.9	3.2	0.6	0.17	0.124
10,001 to 50,000	26	4.9	6.1	3.8	6.9	11.7	2.7	0.51	0.104
50,001 to 100,000	73	8.0	8.6	6.4	11.4	24.0	7.2	0.78	0.098
100,001 to 500,000	220	13.0	12.2	10.1	18.9	40.0	18.9	1.12	0.086
500,001 to 1,000,000	684	14.4	13.6	12.0	16.9	30.0	54.5	1.15	0.080
1,000,001 to 5,000,000	2,087	20.3	13.5	16.0	23.4	37.7	143.9	1.40	0.069
Over 5,000,000	11,458	24.7	15.6	20.0	27.5	36.8	775.0	1.67	0.068
Provider of Purchased Electricity (more than one may apply)									
Local Utility	187	13.7	12.0	3.5	8.1	16.7	14.5	1.06	0.078
Some Other Provider	594	18.3	12.9	6.5	12.4	22.9	46.4	1.43	0.078

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 9.7 percent of total electricity consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use electricity.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
Building Floorspace (Square Feet)												
1,001 to 5,000	13	30	50	19	997	1,729	2,324	1,295	13.4	17.5	21.7	14.6
5,001 to 10,000	10	15	33	19	1,083	1,447	2,454	1,214	9.0	10.7	13.4	15.3
10,001 to 25,000	19	29	49	22	1,944	3,098	4,266	2,063	9.6	9.3	11.6	10.9
25,001 to 50,000	12	31	41	19	1,292	2,483	3,012	1,599	9.0	12.6	13.7	11.7
50,001 to 100,000	22	29	50	17	2,040	2,260	3,435	1,296	11.0	12.9	14.6	13.1
100,001 to 200,000	25	33	66	18	2,117	2,285	3,439	1,177	11.6	14.6	19.1	15.0
200,001 to 500,000	24	28	38	16	1,781	2,196	1,909	1,166	13.3	12.7	20.1	13.7
Over 500,000	23	20	46	23	1,556	1,203	1,928	1,221	15.0	16.4	24.0	18.8
Principal Building Activity												
Education	13	20	58	17	1,683	2,539	3,983	1,667	7.8	8.1	14.6	10.2
Food Sales	Q	16	24	Q	Q	305	484	Q	Q	52.5	50.5	Q
Food Service	Q	14	37	8	Q	453	764	265	Q	29.9	48.3	31.9
Health Care	10	18	31	12	535	798	1,277	553	19.4	23.2	24.5	22.5
Inpatient	8	12	26	7	358	438	838	270	23.2	26.4	30.5	25.3
Outpatient	Q	7	6	6	Q	359	438	283	Q	19.2	13.0	19.8
Lodging	9	15	29	16	1,171	1,144	1,694	1,087	Q	13.0	17.2	14.7
Retail (Other Than Mall)	6	12	29	14	630	880	1,844	963	8.8	14.2	16.0	14.8
Office	50	53	71	36	3,012	2,989	3,782	2,425	16.5	17.9	18.8	15.0
Public Assembly	6	11	21	11	1,048	1,012	1,174	701	Q	10.7	17.8	16.0
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	2	5	10	2	627	1,115	1,498	515	2.8	4.1	6.7	3.6
Service	5	14	18	7	731	1,259	1,335	657	6.9	10.8	13.2	11.4
Warehouse and Storage	9	27	25	11	1,467	2,849	3,623	1,486	5.9	9.6	6.9	7.3
Other	15	5	Q	Q	649	306	Q	Q	23.3	16.7	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed												
Before 1920	11	8	Q	Q	1,388	1,535	512	Q	7.7	5.4	10.6	Q
1920 to 1945	17	23	12	8	2,472	1,954	1,249	920	7.0	11.8	9.5	9.2
1946 to 1959	17	17	22	12	2,083	2,005	1,744	1,005	8.0	8.3	12.8	11.9
1960 to 1969	22	23	34	18	1,737	2,224	2,504	1,592	12.6	10.1	13.6	11.0
1970 to 1979	26	47	64	31	1,723	3,237	3,514	2,080	15.0	14.5	18.1	15.1
1980 to 1989	25	35	88	36	1,374	1,915	4,636	2,229	17.9	18.2	19.1	16.1
1990 to 1999	19	45	104	34	1,355	2,638	6,106	1,979	14.2	16.9	17.0	17.3
2000 to 2003	11	19	45	11	675	1,193	2,501	930	16.7	15.7	18.0	11.5
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	23	62	N	34	2,365	5,488	N	2,541	9.8	11.4	N	13.3
5,500-7,000 HDD	59	134	N	31	5,366	9,655	N	2,055	11.0	13.9	N	15.0
4,000-5,499 HDD	65	19	72	Q	5,077	1,558	4,047	693	12.8	12.4	17.8	14.0
Fewer than 4,000 HDD	N	N	156	63	N	N	9,985	5,187	N	N	15.7	12.1
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	146	15	N	N	8,734	555	N	N	16.7	27.1
Number of Floors												
One	39	80	155	60	3,086	5,873	11,127	4,849	12.5	13.6	14.0	12.4
Two	27	56	78	40	3,015	5,130	4,874	2,959	8.9	11.0	16.1	13.6
Three	15	29	28	11	2,065	2,504	1,916	896	7.3	11.6	14.8	12.8
Four to Nine	40	39	74	21	3,003	2,640	3,094	1,328	13.5	14.8	23.8	15.9
Ten or More	26	11	39	19	1,640	555	1,754	999	16.1	20.5	22.2	19.2

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

	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
Elevators and Escalators (more than one may apply)												
Any Elevators	86	99	168	63	6,119	6,594	7,941	3,841	14.1	15.0	21.2	16.5
Number of Elevators												
One	18	37	36	13	1,567	3,009	2,467	1,064	11.3	12.3	14.8	11.8
Two to Five	38	41	70	23	2,971	2,695	3,094	1,360	12.8	15.2	22.6	16.6
Six or More	31	21	62	28	1,581	889	2,380	1,418	19.3	23.2	25.9	19.8
Any Escalators	Q	Q	29	Q	Q	Q	1,002	Q	Q	Q	28.9	Q
Number of Workers (main shift)												
Fewer than 5	12	37	42	19	2,279	4,579	4,966	2,236	5.1	8.0	8.5	8.3
5 to 9	9	19	33	12	1,085	1,463	2,576	1,023	8.2	13.1	12.6	11.9
10 to 19	14	23	39	14	1,872	2,081	2,741	1,109	7.2	10.8	14.3	12.2
20 to 49	21	37	68	27	2,314	2,856	3,883	1,909	9.1	13.1	17.6	13.9
50 to 99	22	33	46	19	1,598	2,311	2,654	1,370	13.5	14.1	17.2	13.6
100 to 249	23	29	59	24	1,331	1,609	2,534	1,397	17.0	18.1	23.3	17.1
250 or More	48	38	88	39	2,329	1,800	3,413	1,986	20.7	21.3	25.7	19.6
Weekly Operating Hours												
Fewer than 40	3	7	12	5	863	2,046	2,099	892	3.0	3.5	5.7	5.1
40 to 48	13	31	51	21	2,103	2,742	4,565	2,161	6.3	11.3	11.2	9.7
49 to 60	27	52	67	29	3,098	4,595	5,553	2,455	8.8	11.4	12.0	11.8
61 to 84	21	32	67	24	2,048	2,575	3,746	1,944	10.4	12.6	18.0	12.6
85 to 167	24	42	66	21	1,317	2,008	2,370	1,246	18.3	20.9	27.8	17.2
Open Continuously	59	51	111	52	3,379	2,735	4,434	2,332	17.4	18.7	25.1	22.3
Ownership and Occupancy												
Nongovernment Owned	124	158	273	119	10,292	12,107	17,152	8,460	12.0	13.1	15.9	14.1
Owner Occupied	66	80	122	50	5,904	6,131	7,803	3,617	11.2	13.1	15.7	13.8
Nonowner Occupied	57	77	150	69	4,140	5,366	9,021	4,732	13.8	14.3	16.7	14.6
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	24	58	101	33	2,517	4,594	5,614	2,570	9.5	12.5	18.1	12.8
Federal	Q	Q	Q	3	Q	Q	516	Q	Q	20.7	27.3	8.9
State	6	11	33	10	599	764	1,697	727	10.8	14.2	19.3	13.4
Local	15	28	55	20	1,706	2,909	3,401	1,541	8.7	9.5	16.1	13.2
Vacancy Status												
Completely Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	40	41	61	27	3,095	3,105	3,919	2,079	12.8	13.1	15.5	13.2
Not At All Vacant	107	173	313	124	9,228	12,766	18,499	8,769	11.5	13.6	16.9	14.1
Number of Establishments												
One	92	162	265	108	7,996	12,134	16,569	7,679	11.4	13.4	16.0	14.1
2 to 5	28	36	59	24	2,517	2,803	3,716	1,886	11.2	12.9	15.9	12.8
6 to 10	8	7	13	5	571	510	550	327	13.9	14.1	24.3	16.1
11 to 20	Q	Q	12	Q	Q	Q	589	Q	Q	Q	19.7	Q
More than 20	13	Q	25	9	696	Q	1,011	688	18.0	Q	24.8	13.4
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
Predominant Exterior Wall Material												
Brick, Stone or Stucco	75	120	187	59	7,198	9,111	11,364	4,621	10.5	13.2	16.5	12.8
Concrete (Block or Poured)	26	36	67	26	2,173	2,877	3,922	1,765	12.0	12.5	17.0	15.0
Concrete Panels	12	21	58	26	599	1,230	2,656	1,899	19.7	17.3	21.9	13.6
Siding or Shingles	8	10	14	12	1,179	1,063	1,035	698	6.5	9.6	13.3	17.6
Metal Panels	17	17	35	18	1,032	1,768	3,088	1,489	16.5	9.5	11.3	12.4
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material												
Built-Up	46	71	128	60	4,025	5,149	7,227	4,380	11.5	13.9	17.7	13.7
Shingles (Not Wood)	23	32	46	20	1,995	3,119	3,272	1,486	11.7	10.1	14.1	13.6
Metal Surfacing	9	26	59	21	1,001	2,484	5,888	1,860	9.4	10.3	10.0	11.3
Synthetic or Rubber	61	65	103	32	4,116	4,440	4,282	1,873	14.7	14.7	24.1	17.0
Slate or Tile	4	3	16	8	480	302	1,036	620	8.0	9.8	15.0	12.9
Wooden Materials	Q	Q	Q	Q	Q	Q	Q	244	Q	Q	Q	10.9
Concrete	Q	Q	8	Q	Q	Q	426	Q	Q	Q	19.8	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)												
Any Type of Renovation Since 1980	58	63	68	39	5,090	5,361	4,346	2,841	11.5	11.8	15.7	13.6
Addition or Annex	18	29	30	16	1,797	1,970	1,804	979	9.8	14.6	16.9	16.0
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	48	50	48	31	3,938	3,879	3,002	2,183	12.2	12.8	15.9	14.0
Wall or Roof Replacement	28	27	30	17	2,676	2,236	1,850	1,294	10.3	12.0	16.3	13.2
Interior Wall Re-Configuration	27	36	31	24	2,475	2,586	1,934	1,507	10.9	13.9	16.1	15.8
HVAC Equipment Upgrade	40	42	44	28	3,027	3,332	2,582	1,825	13.2	12.7	17.2	15.3
Lighting Upgrade	42	38	33	28	3,350	3,059	2,089	1,775	12.4	12.4	15.8	15.6
Window Replacement	27	21	14	12	2,750	1,772	913	842	9.7	11.8	15.3	14.3
Plumbing System Upgrade	26	23	22	21	2,511	1,898	1,364	1,369	10.4	12.2	16.1	15.1
Insulation Upgrade	15	14	14	7	1,370	1,212	855	576	11.3	11.8	16.1	13.0
Other Renovation	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	34	54	69	33	4,314	5,594	5,179	3,051	7.9	9.7	13.3	10.7
Building Newer than 1980	55	98	237	81	3,405	5,747	13,242	5,138	16.2	17.1	17.9	15.7
Energy Sources (more than one may apply)												
Electricity	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
Natural Gas	114	171	240	107	9,181	13,162	13,306	7,813	12.5	13.0	18.0	13.7
Fuel Oil	70	50	86	43	6,080	2,817	4,122	2,123	11.6	17.9	20.9	20.4
District Heat	22	28	38	10	1,363	1,648	1,766	667	16.4	17.2	21.3	14.8
District Chilled Water	11	13	23	10	620	596	1,150	487	17.1	21.7	20.2	19.6
Propane	12	30	33	24	1,354	2,179	2,360	1,173	9.0	13.9	14.0	20.1
Other	Q	7	Q	Q	Q	487	303	367	Q	13.6	26.1	16.3

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

	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
Space-Heating Energy Sources												
Electricity	66	89	228	73	4,405	6,223	13,058	4,914	15.0	14.3	17.5	14.9
Electricity Main	21	46	153	45	1,253	2,545	9,084	3,114	17.0	18.1	16.9	14.5
Electricity Secondary	45	43	75	28	3,152	3,677	3,975	1,800	14.2	11.6	18.8	15.5
Other Excluding Electricity	80	125	133	68	8,191	10,080	7,932	5,188	9.8	12.4	16.8	13.1
Buildings without Heating	Q	Q	13	11	Q	398	1,776	928	Q	4.3	7.6	12.1
Primary Space-Heating Energy Source												
Electricity	21	46	153	45	1,253	2,545	9,084	3,114	17.0	18.1	16.9	14.5
Natural Gas	85	133	162	79	6,439	11,320	9,294	5,911	13.2	11.7	17.4	13.4
Fuel Oil	17	Q	Q	Q	3,250	Q	Q	Q	5.2	Q	Q	Q
District Heat	20	28	35	8	1,205	1,531	1,614	557	16.8	18.0	21.7	14.4
Propane	Q	Q	6	Q	Q	560	674	332	Q	9.4	9.1	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling Energy Sources												
Electricity	130	190	354	140	10,402	13,781	20,623	9,515	12.5	13.8	17.2	14.7
Other Excluding Electricity	11	Q	17	Q	552	Q	930	Q	19.6	Q	18.8	Q
Buildings without Cooling	7	Q	3	6	1,855	2,232	1,214	1,080	3.6	6.4	2.6	5.8
Water-Heating Energy Sources												
Electricity	57	86	200	59	5,125	6,477	11,882	4,007	11.2	13.3	16.8	14.7
Other Excluding Electricity	86	114	159	87	6,664	8,436	8,031	5,841	12.9	13.5	19.7	14.9
Bldgs without Water Heating	4	Q	16	6	1,020	1,788	2,853	1,182	4.0	9.0	5.6	5.3
Cooking Energy Sources												
Electricity	39	60	112	38	2,495	3,784	4,900	1,982	15.5	15.9	22.9	19.1
Other Excluding Electricity	31	32	67	26	2,521	2,066	2,982	1,507	Q	15.5	22.3	17.1
Buildings without Cooking	78	124	196	89	7,793	10,851	14,885	7,541	10.0	11.4	13.2	11.8
Energy End Uses (more than one may apply)												
Buildings with Space Heating	147	214	361	141	12,596	16,303	20,990	10,102	11.6	13.1	17.2	14.0
Buildings with Cooling	141	202	371	146	10,954	14,469	21,553	9,950	12.9	13.9	17.2	14.7
Buildings with Water Heating	143	200	359	146	11,789	14,913	19,913	9,848	12.2	13.4	18.0	14.8
Buildings with Cooking	69	92	179	64	5,016	5,850	7,881	3,489	13.8	15.7	22.7	18.2
Buildings with Manufacturing	13	10	8	10	1,013	798	642	685	13.1	13.2	11.8	14.6
Buildings with Electricity Generation	60	66	91	44	3,245	3,317	4,017	2,241	18.5	20.0	22.5	19.6
Percent of Floorspace Heated												
Not Heated	Q	Q	13	11	Q	398	1,776	928	Q	4.3	7.6	12.1
1 to 50	6	9	26	13	1,387	1,115	2,836	1,491	4.2	8.3	9.3	8.9
51 to 99	15	21	51	29	1,539	1,727	2,891	1,950	9.8	12.4	17.5	14.8
100	126	183	284	99	9,671	13,461	15,263	6,661	13.0	13.6	18.6	14.8
Percent of Floorspace Cooled												
Not Cooled	7	Q	3	6	1,855	2,232	1,214	1,080	3.6	6.4	2.6	5.8
1 to 50	28	37	39	25	4,270	4,742	4,915	2,656	6.6	7.9	8.0	9.6
51 to 99	49	58	73	38	3,101	3,761	3,903	2,446	15.8	15.4	18.8	15.7
100	64	106	259	82	3,582	5,966	12,735	4,849	17.8	17.8	20.3	16.9

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

	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
Percent Lit When Open												
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	11	17	26	12	2,750	2,753	3,189	1,512	4.1	6.3	8.0	7.7
51 to 99	49	65	102	45	3,599	5,299	6,134	3,256	13.7	12.3	16.7	13.9
100	86	132	245	94	6,051	7,781	12,874	6,083	14.2	16.9	19.0	15.5
Building Never Open/ Electricity Not Used	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Percent Lit When Closed												
Zero	20	50	61	29	2,807	5,174	6,292	3,112	7.1	9.6	9.6	9.4
1 to 50	62	103	179	68	6,279	8,293	11,027	5,349	9.9	12.5	16.2	12.7
51 to 100	Q	12	24	Q	Q	499	1,013	Q	Q	23.9	23.6	Q
Building Never Closed/ Electricity Not Used	59	51	111	52	3,379	2,735	4,434	2,332	17.4	18.7	25.1	22.3
Heating Equipment (more than one may apply)												
Heat Pumps	25	16	85	27	1,213	1,058	4,942	1,600	20.8	15.2	17.2	16.8
Packaged Heat Pumps	17	12	57	19	744	738	2,928	1,031	22.8	16.0	19.6	18.5
Split-System Heat Pumps	Q	Q	28	6	Q	Q	1,862	368	Q	Q	15.3	17.2
Individual Room Heat Pumps	Q	Q	19	7	Q	Q	1,250	538	Q	Q	15.5	12.1
Furnaces	33	82	71	37	3,596	7,219	5,715	3,075	9.2	11.3	12.5	11.9
Individual Space Heaters	35	50	56	24	2,786	4,169	3,603	1,981	12.7	11.9	15.6	11.9
District Heat	20	28	36	9	1,245	1,623	1,683	615	16.5	17.0	21.4	14.3
Boilers	71	74	94	56	6,228	6,141	4,393	3,662	11.4	12.1	21.5	15.3
Packaged Heating Units	50	62	151	48	2,912	3,666	8,130	3,312	17.3	16.8	18.5	14.4
Other	Q	14	21	8	Q	803	1,379	481	Q	17.1	15.0	15.6
Cooling Equipment (more than one may apply)												
Residential-Type Central Air Conditioners	22	45	52	15	2,391	3,609	3,854	1,181	9.1	12.5	13.4	12.7
Heat Pumps	26	16	89	31	1,270	1,063	4,923	1,785	20.1	14.8	18.0	17.1
Packaged Heat Pumps	17	12	57	19	788	760	2,849	1,030	21.7	15.7	20.1	18.5
Split-System Heat Pumps	Q	Q	29	7	Q	Q	1,868	404	Q	Q	15.7	17.1
Individual Room Heat Pumps	Q	Q	22	11	Q	Q	1,290	734	Q	Q	17.1	14.5
Individual Air Conditioners	31	35	51	23	3,687	3,488	3,635	1,749	8.3	10.1	14.1	13.2
District Chilled Water	11	13	23	10	620	596	1,150	487	17.1	21.7	20.2	19.6
Central Chillers	37	52	115	40	1,852	2,842	4,854	2,088	20.2	18.4	23.7	19.3
Packaged Air Conditioning Units	83	121	176	82	6,000	8,086	10,401	5,482	13.8	15.0	16.9	15.0
Swamp Coolers	Q	Q	Q	19	Q	Q	Q	1,342	Q	11.1	Q	13.8
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)												
Heating	42	61	68	38	3,974	5,025	4,807	2,588	10.6	12.2	14.2	14.8
Cooling	66	74	98	48	5,453	5,752	6,415	3,374	12.1	12.9	15.3	14.1
Water Heating Equipment												
Centralized System	94	133	209	80	7,770	9,709	11,537	5,640	12.1	13.7	18.1	14.2
Distributed System	23	29	66	24	2,325	2,670	4,564	1,981	9.7	10.8	14.5	12.0
Combination of Centralized and Distributed System	27	38	83	42	1,695	2,534	3,812	2,227	15.9	15.2	21.8	18.9

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

	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
Lighting Equipment Types (more than one may apply)												
Incandescent	96	146	248	98	8,102	10,973	13,045	6,408	11.9	13.3	19.0	15.3
Standard Fluorescent	144	211	363	148	12,159	15,708	21,222	10,599	11.8	13.4	17.1	14.0
Compact Fluorescent	89	109	199	90	6,091	6,828	8,881	5,772	14.7	15.9	22.4	15.7
High Intensity Discharge	64	91	124	50	4,379	6,620	6,229	3,416	14.7	13.8	19.9	14.7
Halogen	56	74	130	52	3,581	4,661	6,193	3,268	15.7	15.9	21.1	16.1
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)[a]												
Any Refrigeration	137	192	348	135	10,842	14,082	19,103	8,947	12.6	13.6	18.2	15.1
Commercial Refrigeration	89	118	237	79	5,936	7,122	9,638	4,072	15.1	16.6	24.6	19.5
Walk-In Units	73	93	204	66	4,452	5,201	7,469	3,132	16.5	17.9	27.4	21.0
Cases or Cabinets	75	89	191	67	4,504	4,978	7,664	3,277	16.8	17.8	24.9	20.6
Residential-Type Units	88	133	210	87	8,288	10,792	13,162	6,642	10.6	12.4	16.0	13.1
Vending Machines	96	134	256	94	6,559	9,400	13,534	5,841	14.7	14.3	19.0	16.1
No Refrigeration	11	24	26	17	1,967	2,619	3,663	2,083	5.5	9.1	7.1	8.3
Office Equipment (more than one may apply)												
Computers	141	199	347	145	11,518	14,415	19,715	9,980	12.2	13.8	17.6	14.5
With Flat Screen Monitors	93	102	191	80	5,995	6,346	9,135	4,940	15.5	16.1	20.9	16.3
Dedicated Servers	113	142	241	100	8,143	9,252	12,649	6,294	13.9	15.3	19.1	16.0
Laser Printers	76	104	188	86	7,095	8,463	11,566	5,888	10.7	12.3	16.3	14.6
Inkjet Printers	95	124	225	89	6,415	8,305	11,480	6,009	14.9	14.9	19.6	14.9
FAX Machines	138	183	335	136	11,173	13,295	18,782	9,123	12.3	13.8	17.8	14.9
Photocopiers	126	160	285	121	9,893	11,859	16,312	8,193	12.7	13.5	17.5	14.8
Number of Computers												
None	7	17	28	8	1,291	2,286	3,052	1,051	5.2	7.2	9.0	7.2
1 to 4	17	44	70	22	2,081	3,743	4,419	2,151	7.9	11.7	15.9	10.4
5 to 9	10	23	30	17	1,604	1,938	2,538	1,099	6.3	12.0	11.7	15.5
10 to 19	14	23	31	16	1,321	1,690	2,403	1,196	10.2	13.5	13.0	13.3
20 to 49	20	24	50	25	1,504	1,932	2,425	1,554	13.5	12.6	20.4	16.4
50 to 99	10	16	36	14	1,157	1,049	2,102	1,068	Q	15.2	17.2	12.9
100 to 249	19	26	44	19	1,260	1,851	2,262	1,317	14.8	14.0	19.3	14.8
250 or More	52	43	86	31	2,590	2,213	3,565	1,595	19.9	19.5	24.2	19.1
Number of Dedicated Servers												
None	35	74	133	52	4,666	7,449	10,117	4,736	7.4	9.9	13.2	10.9
1 to 4	57	89	136	59	5,247	6,567	8,208	4,093	10.9	13.6	16.6	14.4
5 to 9	15	16	31	12	914	966	1,313	671	16.1	16.5	23.6	17.6
10 to 19	11	15	29	9	578	773	1,126	552	19.0	19.2	25.8	15.5
20 to 49	Q	9	29	7	Q	334	1,265	491	Q	27.4	23.2	15.2
50 or More	22	13	16	Q	912	Q	737	Q	24.5	21.0	21.0	Q
Number of Photocopiers												
None	22	56	90	31	2,915	4,843	6,454	2,838	7.4	11.5	13.9	11.0
One	28	45	68	32	3,027	4,235	5,460	2,753	9.2	10.6	12.5	11.8
2 to 4	29	52	92	35	2,944	4,026	5,518	2,594	9.8	12.8	16.6	13.5
5 to 9	22	21	38	14	1,518	1,401	1,782	814	14.7	14.7	21.1	17.5
10 or More	47	43	87	39	2,404	2,196	3,553	2,032	19.4	19.6	24.6	19.3

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

	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
Energy-Related Space Functions (more than one may apply)												
Commercial Food Preparation	69	92	179	63	5,016	5,850	7,880	3,478	13.8	15.7	22.7	18.2
Activities with Large Amounts of Hot Water	55	80	146	61	3,922	5,225	6,903	3,432	13.9	15.3	21.2	17.8
Separate Computer Area	93	99	183	79	5,925	6,482	9,397	5,070	15.6	15.3	19.5	15.6
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System	67	86	158	60	3,780	5,001	7,348	3,468	17.8	17.3	21.5	17.2
Economizer Cycle	82	106	153	73	4,141	5,884	6,632	4,452	19.7	18.0	23.0	16.3
HVAC Maintenance	137	188	330	137	11,047	13,116	17,641	9,347	12.4	14.3	18.7	14.7
Energy Management and Control System (EMCS)	53	57	120	50	3,002	3,799	5,802	3,027	17.7	15.1	20.6	16.4
Window and Interior Lighting Features (more than one may apply)												
Multipaned Windows	112	169	227	85	9,276	11,649	12,273	5,529	12.1	14.5	18.5	15.4
Tinted Window Glass	78	112	218	85	4,944	7,233	11,832	5,616	15.7	15.5	18.4	15.1
Reflective Window Glass	27	37	66	23	1,661	2,165	3,008	1,694	16.5	16.9	22.1	13.3
External Overhangs or Awnings	36	65	126	55	2,672	4,205	6,749	3,545	13.4	15.6	18.6	15.4
Skylights or Atriums	34	46	71	38	2,892	3,250	3,914	2,453	11.9	14.2	18.0	15.4
Daylighting Sensors	6	15	14	25	428	815	674	951	15.1	17.8	21.4	26.3
Specular Reflectors	84	116	163	72	5,834	7,709	7,871	4,703	14.4	15.0	20.8	15.4
Electronic Ballasts	122	180	301	129	9,288	12,610	16,459	8,525	13.1	14.3	18.3	15.2
Energy Management and Control System (EMCS) For Lighting	18	22	30	21	849	1,292	1,471	1,169	21.3	17.1	20.6	17.7
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]												
Heating	104	126	231	106	9,519	10,893	14,655	7,639	10.9	11.5	15.7	13.9
Cooling	103	128	253	111	8,812	10,454	16,094	7,829	11.7	12.2	15.7	14.2
Lighting	81	160	249	98	8,706	12,884	17,115	8,282	9.3	12.4	14.6	11.8
Office Equipment	34	58	82	36	4,269	5,412	6,426	3,291	8.1	10.7	12.8	11.0
Annual Consumption (kilowatthours)												
10,000 or Less	1	1	1	1	752	929	729	451	1.1	1.1	1.7	1.8
10,001 to 50,000	6	12	17	9	1,800	2,277	3,386	1,765	3.6	5.5	5.0	5.1
50,001 to 100,000	9	11	21	10	1,547	1,466	2,448	1,000	6.0	7.7	8.7	9.7
100,001 to 500,000	26	59	83	41	2,910	4,795	5,402	3,004	8.8	12.4	15.4	13.7
500,001 to 1,000,000	13	21	48	14	1,285	1,794	2,772	886	10.5	11.7	17.5	15.9
1,000,001 to 5,000,000	46	69	111	44	2,570	3,512	4,691	2,435	17.7	19.5	23.7	18.0
Over 5,000,000	46	42	92	34	1,944	1,929	3,338	1,489	23.8	21.9	27.6	22.7

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

	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
Provider of Purchased Electricity (more than one may apply)												
Local Utility	120	198	331	142	11,159	15,631	20,579	10,484	10.8	12.7	16.1	13.6
Some Other Provider	31	16	36	Q	1,741	1,047	1,790	Q	17.9	15.6	20.3	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 9.7 percent of total electricity consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use electricity.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars) per kWh				Electricity Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
Building Floorspace (Square Feet)												
1,001 to 5,000	1,617	2,401	4,142	2,188	0.12	0.08	0.08	0.12	1.62	1.39	1.78	1.69
5,001 to 10,000	1,202	1,212	2,721	2,160	0.12	0.08	0.08	0.12	1.11	0.84	1.11	1.78
10,001 to 25,000	1,795	2,145	3,763	2,299	0.10	0.07	0.08	0.10	0.92	0.69	0.88	1.11
25,001 to 50,000	1,168	2,042	2,864	1,797	0.10	0.07	0.07	0.10	0.90	0.82	0.95	1.12
50,001 to 100,000	2,130	1,777	3,190	1,620	0.09	0.06	0.06	0.10	1.04	0.79	0.93	1.25
100,001 to 200,000	2,286	1,963	3,810	1,440	0.09	0.06	0.06	0.08	1.08	0.86	1.11	1.22
200,001 to 500,000	1,985	1,497	2,312	1,530	0.08	0.05	0.06	0.10	1.11	0.68	1.21	1.31
Over 500,000	2,079	1,135	2,738	2,025	0.09	0.06	0.06	0.09	1.34	0.94	1.42	1.66
Principal Building Activity												
Education	1,273	1,388	3,940	1,510	0.10	0.07	0.07	0.09	0.76	0.55	0.99	0.91
Food Sales	Q	1,069	1,741	Q	Q	0.07	0.07	Q	Q	3.51	3.60	Q
Food Service	Q	1,017	2,637	976	Q	0.08	0.07	0.12	Q	2.24	3.45	3.69
Health Care	871	1,057	1,822	1,131	0.08	0.06	0.06	0.09	1.63	1.32	1.43	2.04
Inpatient	631	606	1,387	574	0.08	0.05	0.05	0.08	1.76	1.38	1.65	2.12
Outpatient	Q	451	436	558	Q	0.07	0.08	0.10	Q	1.25	0.99	1.97
Lodging	882	953	1,910	1,543	0.10	0.06	0.07	0.10	Q	0.83	1.13	1.42
Retail (Other Than Mall)	650	877	2,198	1,408	0.12	0.07	0.07	0.10	1.03	1.00	1.19	1.46
Office	4,890	3,556	4,788	3,816	0.10	0.07	0.07	0.10	1.62	1.19	1.27	1.57
Public Assembly	628	731	1,370	Q	0.10	0.07	0.07	0.11	Q	0.72	1.17	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	183	369	869	207	0.11	0.08	0.09	0.11	0.29	0.33	0.58	0.40
Service	580	961	1,266	679	0.11	0.07	Q	0.09	0.79	0.76	0.95	1.03
Warehouse and Storage	763	1,522	1,736	1,013	0.09	0.06	0.07	0.09	0.52	0.53	0.48	0.68
Other	1,333	330	Q	Q	0.09	0.06	Q	Q	2.05	1.08	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed												
Before 1920	990	669	Q	Q	0.09	0.08	0.08	Q	0.71	0.44	0.81	Q
1920 to 1945	1,827	1,403	904	989	0.11	0.06	0.08	0.12	0.74	0.72	0.72	1.07
1946 to 1959	1,747	1,195	1,601	1,186	0.10	0.07	0.07	0.10	0.84	0.60	0.92	1.18
1960 to 1969	2,063	1,485	2,421	1,745	0.09	0.07	0.07	0.10	1.19	0.67	0.97	1.10
1970 to 1979	2,479	2,982	4,270	2,906	0.10	0.06	0.07	0.09	1.44	0.92	1.22	1.40
1980 to 1989	2,331	2,365	5,787	3,419	0.09	0.07	0.07	0.10	1.70	1.23	1.25	1.53
1990 to 1999	1,819	2,890	6,962	3,565	0.09	0.06	0.07	0.10	1.34	1.10	1.14	1.80
2000 to 2003	1,006	1,183	3,177	1,006	0.09	0.06	0.07	0.09	1.49	0.99	1.27	1.08
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	2,516	4,189	N	2,429	0.11	0.07	N	0.07	1.06	0.76	N	0.96
5,500-7,000 HDD	5,413	8,791	N	2,095	0.09	0.07	N	0.07	1.01	0.91	N	1.02
4,000-5,499 HDD	6,333	1,191	4,868	Q	0.10	0.06	0.07	0.10	1.25	0.76	1.20	1.39
Fewer than 4,000 HDD	N	N	9,940	8,271	N	N	0.06	0.13	N	N	1.00	1.59
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	10,732	1,301	N	N	0.07	0.09	N	N	1.23	2.34
Number of Floors												
One	3,780	5,312	11,585	6,131	0.10	0.07	0.07	0.10	1.22	0.90	1.04	1.26
Two	2,788	3,821	5,470	3,987	0.10	0.07	0.07	0.10	0.92	0.74	1.12	1.35
Three	1,473	1,988	1,854	1,073	0.10	0.07	0.07	0.09	0.71	0.79	0.97	1.20
Four to Nine	3,813	2,364	4,214	2,126	0.09	0.06	0.06	0.10	1.27	0.90	1.36	1.60
Ten or More	2,408	687	2,416	1,740	0.09	0.06	0.06	0.09	1.47	1.24	1.38	1.74

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

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars) per kWh				Electricity Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
Elevators and Escalators (more than one may apply)												
Any Elevators	7,917	6,121	10,195	5,994	0.09	0.06	0.06	0.09	1.29	0.93	1.28	1.56
Number of Elevators												
One	1,752	2,372	2,487	1,101	0.10	0.06	0.07	0.09	1.12	0.79	1.01	1.03
Two to Five	3,435	2,579	4,094	2,232	0.09	0.06	0.06	0.10	1.16	0.96	1.32	1.64
Six or More	2,730	1,170	3,614	2,662	0.09	0.06	0.06	0.09	1.73	1.32	1.52	1.88
Any Escalators	Q	Q	1,732	Q	Q	Q	0.06	Q	Q	Q	1.73	Q
Number of Workers (main shift)												
Fewer than 5	1,405	2,523	3,610	1,966	0.12	0.07	0.09	0.11	0.62	0.55	0.73	0.88
5 to 9	1,088	1,441	2,633	1,228	0.12	0.08	0.08	0.10	1.00	0.98	1.02	1.20
10 to 19	1,436	1,664	3,022	1,525	0.11	0.07	0.08	0.11	0.77	0.80	1.10	1.38
20 to 49	2,216	2,576	4,556	2,619	0.10	0.07	0.07	0.10	0.96	0.90	1.17	1.37
50 to 99	1,868	1,991	2,930	1,742	0.09	0.06	0.06	0.09	1.17	0.86	1.10	1.27
100 to 249	2,013	1,729	3,595	2,431	0.09	0.06	0.06	0.10	1.51	1.07	1.42	1.74
250 or More	4,236	2,248	5,194	3,546	0.09	0.06	0.06	0.09	1.82	1.25	1.52	1.79
Weekly Operating Hours												
Fewer than 40	290	616	1,009	574	0.11	0.09	0.08	0.13	0.34	0.30	0.48	0.64
40 to 48	1,369	2,162	3,885	2,161	0.10	0.07	0.08	0.10	0.65	0.79	0.85	1.00
49 to 60	2,814	3,345	4,891	3,181	0.10	0.06	0.07	0.11	0.91	0.73	0.88	1.30
61 to 84	2,270	2,313	4,660	2,315	0.11	0.07	0.07	0.09	1.11	0.90	1.24	1.19
85 to 167	2,214	2,739	4,300	1,934	0.09	0.07	0.07	0.09	1.68	1.36	1.81	1.55
Open Continuously	5,304	2,997	6,794	4,892	0.09	0.06	0.06	0.09	1.57	1.10	1.53	2.10
Ownership and Occupancy												
Nongovernment Owned	12,035	10,805	19,030	12,251	0.10	0.07	0.07	0.10	1.17	0.89	1.11	1.45
Owner Occupied	6,390	5,387	8,364	5,299	0.10	0.07	0.07	0.11	1.08	0.88	1.07	1.47
Nonowner Occupied	5,578	5,337	10,619	6,912	0.10	0.07	0.07	0.10	1.35	0.99	1.18	1.46
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	2,227	3,366	6,510	2,806	0.09	0.06	0.06	0.09	0.88	0.73	1.16	1.09
Federal	Q	876	843	228	Q	0.05	Q	0.09	Q	0.95	1.63	0.76
State	604	637	1,876	856	0.09	0.06	0.06	0.09	1.01	0.83	1.11	1.18
Local	1,411	1,853	3,791	1,722	0.10	0.07	0.07	0.08	0.83	0.64	1.11	1.12
Vacancy Status												
Completely Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	3,828	2,668	4,126	2,588	0.10	0.07	0.07	0.09	1.24	0.86	1.05	1.24
Not At All Vacant	10,293	11,371	21,359	12,389	0.10	0.07	0.07	0.10	1.12	0.89	1.15	1.41
Number of Establishments												
One	8,786	10,689	18,435	10,467	0.10	0.07	0.07	0.10	1.10	0.88	1.11	1.36
2 to 5	2,681	2,359	3,847	2,552	0.10	0.07	0.07	0.11	1.07	0.84	1.04	1.35
6 to 10	738	451	905	537	0.09	0.06	0.07	0.10	1.29	0.88	1.65	1.64
11 to 20	Q	Q	726	Q	Q	Q	0.06	Q	Q	Q	1.23	Q
More than 20	1,315	Q	1,578	Q	0.11	Q	0.06	Q	1.89	Q	1.56	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars) per kWh				Electricity Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
Predominant Exterior Wall Material												
Brick, Stone or Stucco	7,324	7,970	12,771	6,068	0.10	0.07	0.07	0.10	1.02	0.87	1.12	1.31
Concrete (Block or Poured)	2,606	2,399	4,721	2,692	0.10	0.07	0.07	0.10	1.20	0.83	1.20	1.53
Concrete Panels	946	1,256	3,739	2,476	0.08	0.06	0.06	0.10	1.58	1.02	1.41	1.30
Siding or Shingles	828	772	1,035	1,372	0.11	0.08	0.08	0.11	0.70	0.73	1.00	1.97
Metal Panels	1,594	1,115	2,352	1,665	0.09	0.07	0.07	0.09	1.55	0.63	0.76	1.12
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material												
Built-Up	4,819	4,676	8,720	5,955	0.10	0.07	0.07	0.10	1.20	0.91	1.21	1.36
Shingles (Not Wood)	2,118	2,334	3,417	2,395	0.09	0.07	0.07	0.12	1.06	0.75	1.04	1.61
Metal Surfacing	935	1,665	4,411	1,826	0.10	0.06	0.07	0.09	0.93	0.67	0.75	0.98
Synthetic or Rubber	5,439	4,259	6,280	2,656	0.09	0.07	0.06	0.08	1.32	0.96	1.47	1.42
Slate or Tile	432	234	1,108	1,042	0.11	0.08	0.07	0.13	0.90	0.78	1.07	1.68
Wooden Materials	Q	Q	Q	Q	Q	Q	Q	0.10	Q	Q	Q	1.05
Concrete	Q	Q	Q	Q	Q	Q	0.07	Q	Q	Q	1.43	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)												
Any Type of Renovation Since 1980	5,738	4,126	4,606	3,359	0.10	0.07	0.07	0.09	1.13	0.77	1.06	1.18
Addition or Annex	1,715	1,728	2,008	1,051	0.10	0.06	0.07	0.07	0.95	0.88	1.11	1.07
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	4,825	3,153	3,155	2,712	0.10	0.06	0.07	0.09	1.23	0.81	1.05	1.24
Wall or Roof Replacement	2,888	1,684	2,041	1,516	0.10	0.06	0.07	0.09	1.08	0.75	1.10	1.17
Interior Wall Re-Configuration	2,713	2,284	1,999	2,038	0.10	0.06	0.06	0.09	1.10	0.88	1.03	1.35
HVAC Equipment Upgrade	4,033	2,721	2,815	2,253	0.10	0.06	0.06	0.08	1.33	0.82	1.09	1.23
Lighting Upgrade	3,879	2,420	2,105	2,338	0.09	0.06	0.06	0.08	1.16	0.79	1.01	1.32
Window Replacement	2,893	1,348	927	999	0.11	0.06	0.07	0.08	1.05	0.76	1.01	1.19
Plumbing System Upgrade	2,738	1,493	1,368	1,761	0.10	0.06	0.06	0.09	1.09	0.79	1.00	1.29
Insulation Upgrade	1,569	912	918	666	0.10	0.06	0.07	0.09	1.15	0.75	1.07	1.16
Other Renovation	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	3,367	3,607	5,008	3,708	0.10	0.07	0.07	0.11	0.78	0.64	0.97	1.22
Building Newer than 1980	5,157	6,438	15,926	7,990	0.09	0.07	0.07	0.10	1.51	1.12	1.20	1.56
Energy Sources (more than one may apply)												
Electricity	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
Natural Gas	10,870	11,456	15,835	10,424	0.09	0.07	0.07	0.10	1.18	0.87	1.19	1.33
Fuel Oil	6,541	2,918	5,337	3,835	0.09	0.06	0.06	0.09	1.08	1.04	1.29	1.81
District Heat	2,131	1,400	2,141	847	0.10	0.05	0.06	0.09	1.56	0.85	1.21	1.27
District Chilled Water	825	726	1,311	805	0.08	0.06	0.06	0.08	1.33	1.22	1.14	1.65
Propane	1,201	1,662	2,194	2,177	0.10	0.05	0.07	0.09	0.89	0.76	0.93	1.86
Other	Q	423	445	472	Q	0.06	0.06	0.08	Q	0.87	1.47	1.28

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

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars) per kWh				Electricity Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
Space-Heating Energy Sources												
Electricity	6,290	5,821	15,827	6,927	0.10	0.07	0.07	0.09	1.43	0.94	1.21	1.41
Electricity Main	2,071	3,002	11,093	4,361	0.10	0.07	0.07	0.10	1.65	1.18	1.22	1.40
Electricity Secondary	4,220	2,819	4,734	2,566	0.09	0.07	0.06	0.09	1.34	0.77	1.19	1.43
Other Excluding Electricity	7,864	8,207	8,622	6,694	0.10	0.07	0.06	0.10	0.96	0.81	1.09	1.29
Buildings without Heating	Q	144	1,092	1,436	Q	0.08	0.08	0.13	Q	0.36	0.61	1.55
Primary Space-Heating Energy Source												
Electricity	2,071	3,002	11,093	4,361	0.10	0.07	0.07	0.10	1.65	1.18	1.22	1.40
Natural Gas	8,025	9,099	10,595	7,635	0.09	0.07	0.07	0.10	1.25	0.80	1.14	1.29
Fuel Oil	1,837	Q	Q	Q	0.11	Q	Q	Q	0.57	Q	Q	Q
District Heat	1,929	1,344	1,971	666	0.10	0.05	0.06	0.08	1.60	0.88	1.22	1.19
Propane	Q	Q	471	Q	Q	0.07	0.08	0.13	Q	0.71	0.70	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling Energy Sources												
Electricity	12,509	12,768	24,260	13,865	0.10	0.07	0.07	0.10	1.20	0.93	1.18	1.46
Other Excluding Electricity	1,012	Q	1,001	Q	0.09	Q	0.06	Q	1.83	Q	1.08	Q
Buildings without Cooling	741	Q	279	708	0.11	0.05	0.09	0.11	0.40	0.33	0.23	0.66
Water-Heating Energy Sources												
Electricity	5,313	5,702	13,738	5,545	0.09	0.07	0.07	0.09	1.04	0.88	1.16	1.38
Other Excluding Electricity	8,482	7,608	10,368	8,770	0.10	0.07	0.07	0.10	1.27	0.90	1.29	1.50
Bldgs without Water Heating	467	862	1,434	742	0.11	0.05	0.09	0.12	0.46	0.48	0.50	0.63
Cooking Energy Sources												
Electricity	3,487	3,802	7,476	3,080	0.09	0.06	0.07	0.08	1.40	1.00	1.53	1.55
Other Excluding Electricity	2,788	2,111	4,282	2,751	0.09	0.07	0.06	0.11	Q	1.02	1.44	1.83
Buildings without Cooking	7,987	8,259	13,783	9,226	0.10	0.07	0.07	0.10	1.02	0.76	0.93	1.22
Energy End Uses (more than one may apply)												
Buildings with Space Heating	14,154	14,028	24,449	13,621	0.10	0.07	0.07	0.10	1.12	0.86	1.16	1.35
Buildings with Cooling	13,521	13,424	25,261	14,349	0.10	0.07	0.07	0.10	1.23	0.93	1.17	1.44
Buildings with Water Heating	13,795	13,310	24,106	14,315	0.10	0.07	0.07	0.10	1.17	0.89	1.21	1.45
Buildings with Cooking	6,275	5,913	11,758	5,832	0.09	0.06	0.07	0.09	1.25	1.01	1.49	1.67
Buildings with Manufacturing	1,166	673	468	810	0.09	0.06	0.06	0.08	1.15	0.84	0.73	1.18
Buildings with Electricity Generation	5,398	3,882	5,483	3,916	0.09	0.06	0.06	0.09	1.66	1.17	1.36	1.75
Percent of Floorspace Heated												
Not Heated	Q	144	1,092	1,436	Q	0.08	0.08	0.13	Q	0.36	0.61	1.55
1 to 50	694	596	1,898	1,458	0.12	0.06	0.07	0.11	0.50	0.53	0.67	0.98
51 to 99	1,486	1,492	3,469	2,649	0.10	0.07	0.07	0.09	0.97	0.86	1.20	1.36
100	11,974	11,941	19,082	9,515	0.10	0.07	0.07	0.10	1.24	0.89	1.25	1.43
Percent of Floorspace Cooled												
Not Cooled	741	Q	279	708	0.11	0.05	0.09	0.11	0.40	0.33	0.23	0.66
1 to 50	2,897	2,623	2,819	2,561	0.10	0.07	0.07	0.10	0.68	0.55	0.57	0.96
51 to 99	4,663	3,749	5,029	3,476	0.10	0.06	0.07	0.09	1.50	1.00	1.29	1.42
100	5,961	7,052	17,413	8,313	0.09	0.07	0.07	0.10	1.66	1.18	1.37	1.71

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

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars) per kWh				Electricity Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
Percent Lit When Open												
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	1,262	1,342	2,026	1,312	0.11	0.08	0.08	0.11	0.46	0.49	0.64	0.87
51 to 99	4,757	4,383	7,016	4,737	0.10	0.07	0.07	0.10	1.32	0.83	1.14	1.45
100	8,146	8,308	16,362	8,947	0.09	0.06	0.07	0.09	1.35	1.07	1.27	1.47
Building Never Open/ Electricity Not Used	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Percent Lit When Closed												
Zero	2,124	3,236	4,759	2,986	0.11	0.07	0.08	0.10	0.76	0.63	0.76	0.96
1 to 50	6,272	7,204	12,443	6,877	0.10	0.07	0.07	0.10	1.00	0.87	1.13	1.29
51 to 100	Q	735	1,544	Q	Q	0.06	0.06	Q	Q	1.47	1.52	Q
Building Never Closed/ Electricity Not Used	5,304	2,997	6,794	4,892	0.09	0.06	0.06	0.09	1.57	1.10	1.53	2.10
Heating Equipment (more than one may apply)												
Heat Pumps	2,297	967	5,781	2,585	0.09	0.06	0.07	0.10	1.89	0.91	1.17	1.62
Packaged Heat Pumps	1,538	698	3,932	1,761	0.09	0.06	0.07	0.09	2.07	0.94	1.34	1.71
Split-System Heat Pumps	Q	Q	1,893	676	Q	Q	0.07	0.11	Q	Q	1.02	1.84
Individual Room Heat Pumps	Q	Q	1,288	586	Q	Q	0.07	0.09	Q	Q	1.03	1.09
Furnaces	3,399	5,811	5,220	3,456	0.10	0.07	0.07	0.09	0.95	0.81	0.91	1.12
Individual Space Heaters	3,394	3,244	3,804	1,944	0.10	0.07	0.07	0.08	1.22	0.78	1.06	0.98
District Heat	1,953	1,368	2,033	696	0.10	0.05	0.06	0.08	1.57	0.84	1.21	1.13
Boilers	6,441	4,822	5,657	5,124	0.09	0.06	0.06	0.09	1.03	0.79	1.29	1.40
Packaged Heating Units	4,895	3,893	10,498	5,032	0.10	0.06	0.07	0.11	1.68	1.06	1.29	1.52
Other	Q	846	1,372	530	Q	0.06	0.07	0.07	Q	1.05	1.00	1.10
Cooling Equipment (more than one may apply)												
Residential-Type Central Air Conditioners	2,372	3,158	3,733	1,484	0.11	0.07	0.07	0.10	0.99	0.87	0.97	1.26
Heat Pumps	2,357	948	5,922	2,833	0.09	0.06	0.07	0.09	1.86	0.89	1.20	1.59
Packaged Heat Pumps	1,585	707	3,904	1,713	0.09	0.06	0.07	0.09	2.01	0.93	1.37	1.66
Split-System Heat Pumps	Q	Q	1,946	709	Q	Q	0.07	0.10	Q	Q	1.04	1.76
Individual Room Heat Pumps	Q	Q	1,404	890	Q	Q	0.06	0.08	Q	Q	1.09	1.21
Individual Air Conditioners	3,052	2,295	3,551	2,370	0.10	0.07	0.07	0.10	0.83	0.66	0.98	1.36
District Chilled Water	825	726	1,311	805	0.08	0.06	0.06	0.08	1.33	1.22	1.14	1.65
Central Chillers	3,297	3,104	6,855	3,810	0.09	0.06	0.06	0.09	1.78	1.09	1.41	1.83
Packaged Air Conditioning Units	7,826	7,997	12,354	8,080	0.09	0.07	0.07	0.10	1.30	0.99	1.19	1.47
Swamp Coolers	Q	Q	Q	1,583	Q	Q	Q	0.09	Q	0.72	Q	1.18
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)												
Heating	4,204	4,210	4,857	3,355	0.10	0.07	0.07	0.09	1.06	0.84	1.01	1.30
Cooling	6,456	5,032	6,808	4,440	0.10	0.07	0.07	0.09	1.18	0.87	1.06	1.32
Water Heating Equipment												
Centralized System	9,178	9,057	14,452	8,184	0.10	0.07	0.07	0.10	1.18	0.93	1.25	1.45
Distributed System	2,171	1,913	4,624	2,545	0.10	0.07	0.07	0.11	0.93	0.72	1.01	1.29
Combination of Centralized and Distributed System	2,446	2,340	5,030	3,586	0.09	0.06	0.06	0.09	1.44	0.92	1.32	1.61

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

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars) per kWh				Electricity Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
Lighting Equipment Types (more than one may apply)												
Incandescent	9,289	9,679	16,344	9,110	0.10	0.07	0.07	0.09	1.15	0.88	1.25	1.42
Standard Fluorescent	13,843	13,759	24,616	14,647	0.10	0.07	0.07	0.10	1.14	0.88	1.16	1.38
Compact Fluorescent	8,449	6,975	12,475	8,685	0.09	0.06	0.06	0.10	1.39	1.02	1.40	1.50
High Intensity Discharge	5,868	5,483	7,765	4,534	0.09	0.06	0.06	0.09	1.34	0.83	1.25	1.33
Halogen	5,246	4,700	8,179	4,887	0.09	0.06	0.06	0.09	1.46	1.01	1.32	1.50
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)[a]												
Any Refrigeration	13,006	12,700	23,481	13,170	0.10	0.07	0.07	0.10	1.20	0.90	1.23	1.47
Commercial Refrigeration	8,341	7,605	15,318	7,318	0.09	0.06	0.06	0.09	1.40	1.07	1.59	1.80
Walk-In Units	6,819	5,922	12,980	6,049	0.09	0.06	0.06	0.09	1.53	1.14	1.74	1.93
Cases or Cabinets	6,839	5,717	12,538	6,241	0.09	0.06	0.07	0.09	1.52	1.15	1.64	1.90
Residential-Type Units	8,440	8,767	14,274	8,455	0.10	0.07	0.07	0.10	1.02	0.81	1.08	1.27
Vending Machines	8,631	8,400	16,462	8,550	0.09	0.06	0.06	0.09	1.32	0.89	1.22	1.46
No Refrigeration	1,256	1,472	2,059	1,887	0.12	0.06	0.08	0.11	0.64	0.56	0.56	0.91
Office Equipment (more than one may apply)												
Computers	13,446	12,982	23,341	14,242	0.10	0.07	0.07	0.10	1.17	0.90	1.18	1.43
With Flat Screen Monitors	8,588	6,381	12,181	7,835	0.09	0.06	0.06	0.10	1.43	1.01	1.33	1.59
Dedicated Servers	10,454	9,056	15,375	10,055	0.09	0.06	0.06	0.10	1.28	0.98	1.22	1.60
Laser Printers	7,450	7,000	12,900	8,681	0.10	0.07	0.07	0.10	1.05	0.83	1.12	1.47
Inkjet Printers	8,773	8,028	14,537	8,582	0.09	0.06	0.06	0.10	1.37	0.97	1.27	1.43
FAX Machines	13,137	12,080	22,367	13,345	0.10	0.07	0.07	0.10	1.18	0.91	1.19	1.46
Photocopiers	11,694	10,371	18,560	11,784	0.09	0.06	0.07	0.10	1.18	0.87	1.14	1.44
Number of Computers												
None	816	1,190	2,200	815	0.12	0.07	0.08	0.11	0.63	0.52	0.72	0.78
1 to 4	1,926	3,029	5,576	2,386	0.12	0.07	0.08	0.11	0.93	0.81	1.26	1.11
5 to 9	1,115	1,625	2,294	1,572	0.11	0.07	0.08	0.09	0.70	0.84	0.90	1.43
10 to 19	1,300	1,562	2,186	1,693	0.10	0.07	0.07	0.11	0.98	0.92	0.91	1.42
20 to 49	1,861	1,666	3,105	2,690	0.09	0.07	0.06	0.11	1.24	0.86	1.28	1.73
50 to 99	1,024	975	2,288	1,376	0.10	0.06	0.06	0.10	Q	0.93	1.09	1.29
100 to 249	1,640	1,573	2,752	1,710	0.09	0.06	0.06	0.09	1.30	0.85	1.22	1.30
250 or More	4,580	2,551	5,140	2,814	0.09	0.06	0.06	0.09	1.77	1.15	1.44	1.76
Number of Dedicated Servers												
None	3,808	5,116	10,165	5,002	0.11	0.07	0.08	0.10	0.82	0.69	1.00	1.06
1 to 4	5,303	5,860	9,075	5,836	0.09	0.07	0.07	0.10	1.01	0.89	1.11	1.43
5 to 9	1,268	1,021	1,915	1,404	0.09	0.06	0.06	0.12	1.39	1.06	1.46	2.09
10 to 19	991	883	1,708	875	0.09	0.06	0.06	0.10	1.72	1.14	1.52	1.59
20 to 49	Q	521	1,799	679	Q	0.06	0.06	0.09	Q	1.56	1.42	1.38
50 or More	2,207	771	879	Q	0.10	0.06	0.06	Q	2.42	1.26	1.19	Q
Number of Photocopiers												
None	2,568	3,800	6,980	3,273	0.12	0.07	0.08	0.10	0.88	0.78	1.08	1.15
One	2,624	3,209	5,066	3,199	0.09	0.07	0.07	0.10	0.87	0.76	0.93	1.16
2 to 4	2,852	3,318	5,946	3,440	0.10	0.06	0.06	0.10	0.97	0.82	1.08	1.33
5 to 9	2,016	1,244	2,332	1,546	0.09	0.06	0.06	0.11	1.33	0.89	1.31	1.90
10 or More	4,201	2,601	5,217	3,599	0.09	0.06	0.06	0.09	1.75	1.18	1.47	1.77

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

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars) per kWh				Electricity Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
Energy-Related Space Functions (more than one may apply)												
Commercial Food Preparation	6,275	5,913	11,757	5,826	0.09	0.06	0.07	0.09	1.25	1.01	1.49	1.68
Activities with Large Amounts of Hot Water	4,965	4,982	9,268	5,495	0.09	0.06	0.06	0.09	1.27	0.95	1.34	1.60
Separate Computer Area	8,286	6,100	11,405	7,516	0.09	0.06	0.06	0.09	1.40	0.94	1.21	1.48
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System	6,051	5,320	9,769	5,587	0.09	0.06	0.06	0.09	1.60	1.06	1.33	1.61
Economizer Cycle	7,496	6,479	9,250	6,438	0.09	0.06	0.06	0.09	1.81	1.10	1.39	1.45
HVAC Maintenance	13,086	11,958	21,800	13,577	0.10	0.06	0.07	0.10	1.18	0.91	1.24	1.45
Energy Management and Control System (EMCS)	4,893	3,545	7,501	4,512	0.09	0.06	0.06	0.09	1.63	0.93	1.29	1.49
Window and Interior Lighting Features (more than one may apply)												
Multipaned Windows	10,709	11,096	14,728	7,250	0.10	0.07	0.06	0.09	1.15	0.95	1.20	1.31
Tinted Window Glass	7,034	6,946	14,565	8,621	0.09	0.06	0.07	0.10	1.42	0.96	1.23	1.54
Reflective Window Glass	2,767	2,275	4,234	2,026	0.10	0.06	0.06	0.09	1.67	1.05	1.41	1.20
External Overhangs or Awnings	3,544	4,181	8,637	5,436	0.10	0.06	0.07	0.10	1.33	0.99	1.28	1.53
Skylights or Atriums	3,178	2,872	4,362	3,595	0.09	0.06	0.06	0.09	1.10	0.88	1.11	1.47
Daylighting Sensors	Q	845	936	2,487	Q	0.06	0.06	0.10	Q	1.04	1.39	2.61
Specular Reflectors	7,792	7,099	10,254	6,947	0.09	0.06	0.06	0.10	1.34	0.92	1.30	1.48
Electronic Ballasts	11,540	11,566	19,990	12,741	0.09	0.06	0.07	0.10	1.24	0.92	1.21	1.49
Energy Management and Control System (EMCS) For Lighting	1,685	1,342	1,948	1,947	0.09	0.06	0.06	0.09	1.99	1.04	1.32	1.67
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]												
Heating	10,079	8,581	15,958	10,481	0.10	0.07	0.07	0.10	1.06	0.79	1.09	1.37
Cooling	10,034	8,738	17,611	11,169	0.10	0.07	0.07	0.10	1.14	0.84	1.09	1.43
Lighting	8,314	10,806	17,810	9,881	0.10	0.07	0.07	0.10	0.95	0.84	1.04	1.19
Office Equipment	3,575	3,837	6,296	3,759	0.10	0.07	0.08	0.10	0.84	0.71	0.98	1.14
Annual Consumption (kilowatthours)												
10,000 or Less	111	109	144	113	0.14	0.11	0.12	0.14	0.15	0.12	0.20	0.25
10,001 to 50,000	873	1,108	1,621	1,066	0.14	0.09	0.10	0.12	0.49	0.49	0.48	0.60
50,001 to 100,000	1,130	885	1,867	1,173	0.12	0.08	0.09	0.12	0.73	0.60	0.76	1.17
100,001 to 500,000	2,936	4,502	6,472	4,143	0.11	0.08	0.08	0.10	1.01	0.94	1.20	1.38
500,001 to 1,000,000	1,301	1,397	3,448	1,589	0.10	0.07	0.07	0.11	1.01	0.78	1.24	1.79
1,000,001 to 5,000,000	3,983	3,922	6,703	3,928	0.09	0.06	0.06	0.09	1.55	1.12	1.43	1.61
Over 5,000,000	3,928	2,248	5,286	3,046	0.08	0.05	0.06	0.09	2.02	1.17	1.58	2.05

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

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars)							
					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*	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
Provider of Purchased Electricity (more than one may apply)												
Local Utility	11,785	12,978	22,643	14,070	0.10	0.07	0.07	0.10	1.06	0.83	1.10	1.34
Some Other Provider	2,841	1,086	2,412	Q	0.09	0.07	0.07	Q	1.63	1.04	1.35	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 9.7 percent of total electricity consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use electricity.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
Building Floorspace (Square Feet)									
1,001 to 5,000	4	9	20	345	652	908	12.7	13.8	22.0
5,001 to 10,000	3	7	8	350	732	781	7.7	9.6	10.7
10,001 to 25,000	Q	16	20	Q	1,390	1,934	Q	11.2	10.5
25,001 to 50,000	Q	8	16	Q	944	1,534	Q	8.5	10.4
50,001 to 100,000	Q	15	21	Q	1,524	1,618	Q	10.2	12.9
100,001 to 200,000	Q	17	26	Q	1,703	1,671	Q	10.1	15.5
200,001 to 500,000	Q	22	24	Q	1,673	1,801	Q	13.1	13.1
Over 500,000	Q	22	18	Q	1,248	1,126	Q	17.3	16.4
Principal Building Activity									
Education	Q	12	16	Q	1,384	1,990	Q	8.4	7.9
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	Q	Q	10	Q	Q	248	Q	Q	38.5
Health Care	Q	9	13	Q	464	551	Q	20.2	24.2
Inpatient	Q	8	9	Q	310	316	Q	24.8	27.9
Outpatient	Q	Q	Q	Q	Q	Q	Q	Q	Q
Lodging	Q	Q	8	Q	Q	548	Q	Q	14.7
Retail (Other Than Mall)	Q	5	7	Q	419	544	Q	10.9	12.3
Office	9	40	42	578	2,434	2,190	16.3	16.6	18.9
Public Assembly	Q	5	8	Q	769	635	Q	Q	12.3
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	Q	1	3	Q	474	720	Q	3.2	4.3
Service	Q	5	9	Q	620	775	Q	7.5	12.0
Warehouse and Storage	Q	8	21	Q	1,070	1,931	Q	7.4	10.8
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	3	8	6	444	945	994	6.0	Q	5.8
1920 to 1945	3	14	Q	611	1,861	1,494	5.6	7.4	12.5
1946 to 1959	Q	15	12	Q	1,734	1,444	Q	8.8	8.6
1960 to 1969	Q	16	14	Q	1,393	1,380	17.4	11.4	10.2
1970 to 1979	6	20	32	450	1,273	2,198	12.5	15.9	14.5
1980 to 1989	Q	20	27	Q	1,109	1,459	Q	18.1	18.8
1990 to 1999	Q	15	30	Q	1,130	1,606	Q	13.3	18.6
2000 to 2003	Q	Q	13	Q	Q	799	Q	Q	16.6
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	7	Q	32	Q	1,417	3,008	7.1	11.6	10.6
5,500-7,000 HDD	25	34	122	1,993	3,373	8,365	12.5	10.1	14.5
4,000-5,499 HDD	N	65	N	N	5,077	N	N	12.8	N
Fewer than 4,000 HDD	N	N	N	N	N	N	N	N	N
2,000 CDD or More and --									
Fewer than 4,000 HDD	N	N	N	N	N	N	N	N	N
Number of Floors									
One	7	31	54	522	2,564	3,774	13.9	12.2	14.3
Two	4	23	35	742	2,274	3,228	5.6	10.0	10.9
Three	4	11	22	755	1,310	1,805	5.2	8.5	12.1
Four to Nine	14	27	32	793	2,210	2,061	17.4	12.1	15.4
Ten or More	Q	24	11	Q	1,510	506	Q	15.8	20.8

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
Elevators and Escalators (more than one may apply)									
Any Elevators	19	67	76	1,375	4,744	4,967	13.7	14.2	15.4
Number of Elevators									
One	Q	12	26	Q	1,068	2,149	Q	11.1	12.1
Two to Five	Q	28	32	723	2,248	2,051	14.1	12.4	15.7
Six or More	Q	28	18	Q	1,428	766	Q	19.5	23.7
Any Escalators	Q	Q	Q	Q	Q	Q	Q	Q	Q
Number of Workers (main shift)									
Fewer than 5	3	8	27	754	1,525	2,973	4.6	5.3	8.9
5 to 9	3	6	12	401	684	866	7.0	8.9	13.3
10 to 19	Q	10	14	Q	1,463	1,214	Q	Q	11.8
20 to 49	Q	17	25	Q	1,964	1,980	Q	8.8	12.6
50 to 99	Q	17	20	Q	1,110	1,570	Q	15.3	13.0
100 to 249	Q	15	22	Q	1,034	1,212	Q	14.7	18.1
250 or More	Q	42	34	Q	2,087	1,558	Q	20.3	21.6
Weekly Operating Hours									
Fewer than 40	Q	2	4	Q	665	1,427	Q	3.5	3.1
40 to 48	3	10	22	431	1,672	1,742	6.7	6.2	12.6
49 to 60	7	21	39	837	2,261	3,322	7.8	9.2	11.9
61 to 84	5	17	21	494	1,554	1,737	9.5	10.7	12.4
85 to 167	Q	20	32	Q	1,078	1,450	Q	18.7	22.1
Open Continuously	13	45	34	742	2,638	1,695	17.9	17.2	20.1
Ownership and Occupancy									
Nongovernment Owned	26	97	106	2,260	8,032	7,793	11.7	12.1	13.7
Owner Occupied	17	49	53	1,587	4,317	3,715	10.9	11.3	14.2
Nonowner Occupied	9	48	53	646	3,493	3,520	14.2	13.7	15.1
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	5	19	47	682	1,835	3,580	7.6	10.2	13.1
Federal	Q	Q	Q	Q	Q	Q	Q	Q	Q
State	Q	Q	9	Q	Q	536	Q	Q	15.9
Local	Q	13	21	Q	1,360	2,199	Q	9.5	9.4
Vacancy Status									
Completely Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	11	29	31	1,022	2,073	2,251	10.3	14.1	13.9
Not At All Vacant	21	86	121	1,781	7,447	8,436	11.8	11.5	14.4
Number of Establishments									
One	20	72	117	1,761	6,235	8,199	11.1	11.5	14.3
2 to 5	6	23	24	615	1,901	1,833	9.1	11.8	13.2
6 to 10	Q	5	Q	Q	411	Q	Q	11.4	Q
11 to 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
Predominant Exterior Wall Material									
Brick, Stone or Stucco	17	58	95	1,541	5,657	7,033	11.0	10.3	13.5
Concrete (Block or Poured)	Q	23	22	Q	1,890	1,875	Q	12.2	11.8
Concrete Panels	Q	Q	14	Q	Q	855	Q	Q	16.6
Siding or Shingles	4	3	5	764	415	425	5.6	8.0	10.6
Metal Panels	Q	13	8	Q	848	618	Q	15.4	12.4
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material									
Built-Up	5	41	52	704	3,321	3,812	6.9	12.4	13.6
Shingles (Not Wood)	5	18	21	668	1,326	2,002	7.6	13.7	10.6
Metal Surfacing	Q	8	13	Q	763	997	Q	11.0	13.3
Synthetic or Rubber	18	42	50	1,018	3,097	3,450	18.1	13.6	14.3
Slate or Tile	Q	3	2	Q	398	236	Q	6.5	10.2
Wooden Materials	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	12	46	43	1,445	3,645	3,416	8.6	12.6	12.5
Addition or Annex	Q	16	18	Q	1,395	1,243	Q	11.5	14.3
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	9	39	33	943	2,996	2,354	9.9	12.9	14.0
Wall or Roof Replacement	6	21	18	720	1,955	1,365	8.7	10.9	13.3
Interior Wall Re-Configuration	7	20	26	639	1,836	1,709	10.8	10.9	14.9
HVAC Equipment Upgrade	8	32	28	739	2,287	2,136	10.6	14.1	13.3
Lighting Upgrade	9	32	26	853	2,497	1,985	10.9	12.9	12.9
Window Replacement	6	20	15	688	2,061	1,264	9.2	9.8	11.8
Plumbing System Upgrade	7	19	16	633	1,878	1,177	10.8	10.3	13.7
Insulation Upgrade	Q	12	9	356	1,014	700	Q	11.8	12.5
Other Renovation	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	7	27	40	752	3,561	4,094	9.0	7.6	9.9
Building Newer than 1980	Q	43	71	744	2,661	3,863	16.9	16.0	18.3
Energy Sources (more than one may apply)									
Electricity	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
Natural Gas	21	93	125	1,465	7,716	9,568	14.4	12.1	13.1
Fuel Oil	15	56	36	1,577	4,502	1,856	9.3	12.4	19.4
District Heat	Q	17	25	Q	1,082	1,420	Q	15.7	17.7
District Chilled Water	Q	10	12	Q	583	569	Q	16.8	21.4
Propane	6	7	Q	850	505	Q	6.7	12.9	17.3
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
Space-Heating Energy Sources									
Electricity	16	50	58	1,132	3,273	3,895	14.6	15.1	14.9
Electricity Main	Q	18	30	Q	1,127	1,487	Q	16.3	20.3
Electricity Secondary	Q	31	28	1,006	2,146	2,408	13.5	14.5	11.6
Other Excluding Electricity	15	66	94	1,687	6,504	7,302	8.7	10.1	12.9
Buildings without Heating	Q	Q	Q	Q	Q	Q	Q	Q	Q
Primary Space-Heating Energy Source									
Electricity	Q	18	30	Q	1,127	1,487	Q	16.3	20.3
Natural Gas	14	71	95	1,061	5,377	8,228	13.5	13.1	11.6
Fuel Oil	8	9	Q	1,161	2,089	Q	6.7	Q	Q
District Heat	Q	15	25	Q	970	1,319	Q	16.0	18.8
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling Energy Sources									
Electricity	27	103	131	1,946	8,456	9,157	13.9	12.2	14.3
Other Excluding Electricity	Q	Q	Q	Q	Q	Q	Q	Q	Q
Buildings without Cooling	4	3	Q	920	935	1,598	3.8	3.3	7.7
Water-Heating Energy Sources									
Electricity	15	42	57	1,439	3,686	4,086	10.6	11.4	13.9
Other Excluding Electricity	16	70	84	1,285	5,379	6,106	12.1	13.1	13.7
Bldgs without Water Heating	Q	3	Q	Q	803	Q	Q	4.1	10.7
Cooking Energy Sources									
Electricity	7	32	46	537	1,958	2,934	12.5	16.3	15.8
Other Excluding Electricity	4	27	23	401	2,120	1,444	9.6	Q	15.7
Buildings without Cooking	21	57	84	2,003	5,789	6,995	10.5	9.9	12.1
Energy End Uses (more than one may apply)									
Buildings with Space Heating	31	115	152	2,819	9,778	11,197	11.1	11.8	13.6
Buildings with Cooling	28	113	141	2,021	8,932	9,775	13.9	12.6	14.4
Buildings with Water Heating	31	112	141	2,724	9,065	10,193	11.3	12.4	13.8
Buildings with Cooking	11	59	69	938	4,078	4,378	11.3	14.4	15.8
Buildings with Manufacturing	Q	11	8	Q	679	489	Q	16.2	16.4
Buildings with Electricity Generation	9	51	52	567	2,678	2,558	16.2	19.1	20.4
Percent of Floorspace Heated									
Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	Q	4	Q	Q	899	759	Q	4.7	9.0
51 to 99	3	12	15	418	1,120	1,214	8.2	10.4	12.2
100	26	99	130	1,913	7,758	9,225	13.7	12.8	14.1
Percent of Floorspace Cooled									
Not Cooled	4	3	Q	920	935	1,598	3.8	3.3	7.7
1 to 50	6	22	25	922	3,349	3,171	6.6	6.6	7.8
51 to 99	11	38	39	550	2,551	2,436	19.4	15.0	16.0
100	11	52	77	550	3,033	4,169	20.7	17.2	18.6

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
Percent Lit When Open									
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	3	8	10	953	1,796	1,575	3.3	4.5	6.5
51 to 99	11	39	47	1,070	2,529	3,641	9.9	15.3	12.8
100	18	68	95	830	5,221	5,418	21.5	13.1	17.6
Building Never Open/ Electricity Not Used	Q	Q	Q	Q	Q	Q	Q	Q	Q
Percent Lit When Closed									
Zero	4	16	34	721	2,086	3,237	5.7	7.5	10.5
1 to 50	13	49	76	1,400	4,880	6,101	9.5	10.1	12.5
51 to 100	Q	Q	Q	Q	Q	Q	Q	Q	Q
Building Never Closed/ Electricity Not Used	13	45	34	742	2,638	1,695	17.9	17.2	20.1
Heating Equipment (more than one may apply)									
Heat Pumps	Q	21	12	Q	1,019	719	Q	20.5	16.3
Packaged Heat Pumps	Q	16	9	Q	656	541	Q	24.1	16.8
Split-System Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q
Furnaces	9	24	50	990	2,606	4,561	8.8	9.3	10.9
Individual Space Heaters	11	25	30	1,011	1,775	2,544	10.5	13.9	11.7
District Heat	Q	15	25	Q	1,000	1,420	Q	15.5	17.7
Boilers	16	55	56	1,465	4,763	4,466	11.0	11.5	12.4
Packaged Heating Units	15	36	45	615	2,297	2,531	23.8	15.5	17.6
Other	Q	Q	7	Q	Q	419	Q	Q	17.1
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	Q	17	27	Q	2,100	2,040	Q	8.1	13.2
Heat Pumps	Q	21	12	Q	1,008	746	Q	20.4	15.8
Packaged Heat Pumps	Q	15	9	Q	646	563	Q	23.9	16.3
Split-System Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Air Conditioners	8	22	23	925	2,762	2,199	9.1	8.0	10.3
District Chilled Water	Q	10	12	Q	583	569	Q	16.8	21.4
Central Chillers	6	31	41	383	1,469	2,074	16.6	21.1	19.7
Packaged Air Conditioning Units	18	65	82	872	5,128	5,505	20.5	12.6	15.0
Swamp Coolers	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	9	33	41	1,013	2,961	3,271	8.4	11.3	12.4
Cooling	14	52	52	1,100	4,353	3,700	12.7	12.0	14.1
Water Heating Equipment									
Centralized System	18	76	95	1,839	5,930	6,680	9.7	12.8	14.2
Distributed System	Q	18	19	Q	1,815	1,750	Q	9.7	10.9
Combination of Centralized and Distributed System	Q	19	27	Q	1,319	1,763	Q	14.4	15.1

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
Lighting Equipment Types (more than one may apply)									
Incandescent	24	72	101	1,996	6,105	7,211	12.1	11.8	13.9
Standard Fluorescent	31	113	150	2,724	9,435	10,701	11.4	11.9	14.0
Compact Fluorescent	22	68	78	1,474	4,616	4,845	14.8	14.7	16.1
High Intensity Discharge	16	49	72	1,021	3,358	5,104	15.3	14.5	14.1
Halogen	14	42	52	769	2,812	3,259	18.3	15.0	16.0
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	30	107	136	2,474	8,367	9,538	12.0	12.8	14.2
Commercial Refrigeration	20	70	89	1,107	4,830	5,286	17.8	14.5	16.9
Walk-In Units	17	56	70	889	3,563	3,860	19.2	15.8	18.0
Cases or Cabinets	18	58	67	849	3,656	3,702	20.9	15.8	18.1
Residential-Type Units	20	67	92	2,037	6,251	7,247	10.0	10.8	12.7
Vending Machines	23	73	98	1,569	4,990	6,583	14.7	14.7	14.8
No Refrigeration	2	9	Q	467	1,500	1,835	4.3	5.9	9.8
Office Equipment (more than one may apply)									
Computers	30	110	141	2,521	8,996	9,882	12.1	12.3	14.3
With Flat Screen Monitors	19	73	74	1,156	4,839	4,584	16.6	15.2	16.2
Dedicated Servers	24	89	99	1,656	6,486	6,456	14.4	13.7	15.4
Laser Printers	15	61	72	1,569	5,526	5,678	9.4	11.1	12.8
Inkjet Printers	19	77	86	1,204	5,211	5,817	15.6	14.7	14.7
FAX Machines	29	109	129	2,367	8,806	9,138	12.1	12.4	14.1
Photocopiers	25	100	114	1,869	8,024	8,273	13.6	12.5	13.8
Number of Computers									
None	1	6	12	Q	871	1,491	2.9	6.4	8.2
1 to 4	6	11	32	570	1,511	2,536	10.1	7.1	12.5
5 to 9	Q	8	13	Q	1,087	1,112	Q	7.4	11.7
10 to 19	Q	10	14	Q	992	1,069	Q	10.6	13.4
20 to 49	Q	16	14	Q	1,182	1,196	Q	13.6	12.1
50 to 99	Q	8	11	Q	1,018	744	Q	Q	14.8
100 to 249	Q	15	18	Q	1,054	1,221	Q	14.0	14.7
250 or More	Q	42	39	439	2,151	2,005	21.4	19.6	19.3
Number of Dedicated Servers									
None	8	27	54	1,285	3,381	4,917	6.1	7.9	11.0
1 to 4	12	45	55	1,028	4,219	4,202	11.9	10.7	13.0
5 to 9	Q	12	12	Q	604	754	Q	19.4	16.2
10 to 19	Q	Q	12	Q	Q	647	Q	Q	18.6
20 to 49	Q	Q	Q	Q	Q	Q	Q	Q	Q
50 or More	Q	19	12	Q	815	Q	Q	23.1	21.0
Number of Photocopiers									
None	6	15	40	1,072	1,843	3,100	5.9	8.3	12.8
One	6	22	27	683	2,344	2,620	8.8	9.4	10.3
2 to 4	8	21	35	643	2,302	2,745	12.9	8.9	12.9
5 to 9	Q	16	15	Q	1,250	1,013	Q	13.2	14.6
10 or More	Q	41	36	Q	2,128	1,894	Q	19.5	19.2

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	11	59	69	938	4,078	4,378	11.3	14.4	15.8
Activities with Large Amounts of Hot Water	15	40	56	995	2,927	3,546	15.2	13.5	15.7
Separate Computer Area	17	75	73	1,045	4,880	4,759	16.6	15.4	15.3
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	Q	54	64	592	3,188	3,660	22.5	16.9	17.4
Economizer Cycle	17	65	79	824	3,317	4,350	20.3	19.6	18.2
HVAC Maintenance	29	109	140	2,311	8,736	9,415	12.5	12.4	14.9
Energy Management and Control System (EMCS)	8	45	42	429	2,573	2,835	19.0	17.4	14.7
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	27	85	120	2,292	6,983	7,925	11.8	12.2	15.2
Tinted Window Glass	16	61	86	803	4,141	5,307	20.1	14.8	16.2
Reflective Window Glass	Q	23	26	Q	1,436	1,454	Q	15.9	17.9
External Overhangs or Awnings	8	28	42	577	2,096	2,522	13.0	13.5	16.7
Skylights or Atriums	5	30	34	476	2,416	2,322	10.3	12.2	14.6
Daylighting Sensors	Q	Q	11	Q	Q	608	Q	Q	17.7
Specular Reflectors	19	65	89	1,390	4,444	5,813	13.5	14.7	15.4
Electronic Ballasts	28	94	128	2,162	7,125	8,623	12.9	13.2	14.8
Energy Management and Control System (EMCS) For Lighting	Q	17	17	Q	758	988	Q	21.9	17.2
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	17	87	88	1,768	7,751	7,580	9.5	11.2	11.7
Cooling	17	86	91	1,456	7,356	7,132	11.5	11.7	12.8
Lighting	18	63	117	2,067	6,639	8,846	8.8	9.5	13.2
Office Equipment	6	28	42	847	3,422	3,645	7.2	8.3	11.4
Annual Consumption (kilowatthours)									
10,000 or Less	Q	0	0	Q	Q	Q	Q	1.1	0.9
10,001 to 50,000	2	4	7	638	1,162	1,273	3.2	3.8	5.2
50,001 to 100,000	Q	7	6	Q	1,319	886	Q	5.3	7.1
100,001 to 500,000	7	19	40	606	2,304	3,293	10.9	8.3	12.1
500,001 to 1,000,000	Q	10	14	Q	967	1,107	Q	10.1	12.2
1,000,001 to 5,000,000	10	35	48	672	1,899	2,564	15.4	18.5	18.9
Over 5,000,000	Q	40	38	Q	1,770	1,751	Q	22.5	21.8

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
Provider of Purchased Electricity (more than one may apply)									
Local Utility	24	96	139	2,399	8,760	10,536	10.1	11.0	13.2
Some Other Provider	9	22	13	589	1,151	789	14.7	19.5	15.9

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 9.7 percent of total electricity consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use electricity.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
Building Floorspace (Square Feet)									
1,001 to 5,000	10	26	7	821	1,157	472	12.4	22.9	15.5
5,001 to 10,000	7	18	4	666	1,308	359	10.7	13.9	12.0
10,001 to 25,000	8	27	11	1,164	2,207	791	7.3	12.2	14.2
25,001 to 50,000	15	24	5	949	1,672	442	16.1	14.4	10.9
50,001 to 100,000	8	25	10	642	1,470	650	12.8	16.7	14.8
100,001 to 200,000	8	39	Q	614	2,087	Q	12.3	18.9	Q
200,001 to 500,000	Q	22	Q	Q	1,072	Q	Q	20.4	Q
Over 500,000	Q	29	Q	Q	1,123	Q	Q	25.6	Q
Principal Building Activity									
Education	5	39	Q	549	2,445	Q	8.8	16.0	Q
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	Q	20	Q	Q	433	Q	Q	45.7	Q
Health Care	5	17	5	247	749	219	20.8	23.4	24.2
Inpatient	Q	15	Q	Q	469	Q	Q	31.3	Q
Outpatient	Q	3	Q	Q	280	Q	Q	10.1	Q
Lodging	7	17	Q	595	939	Q	11.3	18.0	Q
Retail (Other Than Mall)	6	16	4	337	897	353	17.3	17.7	11.9
Office	12	35	9	799	1,958	481	14.9	18.0	18.8
Public Assembly	Q	9	Q	Q	440	Q	Q	20.4	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	2	5	Q	395	721	Q	3.9	6.4	Q
Service	4	Q	Q	484	753	Q	9.0	16.9	Q
Warehouse and Storage	6	16	Q	918	1,733	Q	6.9	9.1	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	3	Q	Q	541	Q	Q	4.8	8.9	Q
1920 to 1945	4	5	Q	459	630	Q	9.6	8.2	Q
1946 to 1959	4	16	Q	561	1,074	Q	7.7	14.4	Q
1960 to 1969	8	19	6	844	1,379	449	10.0	14.0	14.0
1970 to 1979	15	30	12	1,039	1,423	784	14.3	21.1	15.3
1980 to 1989	8	45	9	457	2,373	423	16.5	19.1	21.8
1990 to 1999	15	66	10	1,032	3,620	693	14.3	18.2	14.8
2000 to 2003	6	26	Q	394	1,258	Q	14.0	20.9	Q
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	31	N	N	2,479	N	N	12.4	N	N
5,500-7,000 HDD	Q	N	N	Q	N	N	9.6	N	N
4,000-5,499 HDD	19	48	Q	1,558	2,613	Q	12.4	18.2	19.0
Fewer than 4,000 HDD	N	107	Q	N	6,293	Q	N	17.0	12.6
2,000 CDD or More and --									
Fewer than 4,000 HDD	N	56	Q	N	3,190	Q	N	17.6	19.6
Number of Floors									
One	26	81	20	2,099	5,612	1,489	12.5	14.5	13.7
Two	21	47	14	1,902	2,680	864	11.1	17.6	16.1
Three	7	17	5	699	1,043	421	10.1	15.9	12.4
Four to Nine	7	48	8	579	2,003	355	12.5	24.1	22.6
Ten or More	Q	17	Q	Q	759	Q	Q	22.4	Q

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
Elevators and Escalators (more than one may apply)									
Any Elevators	22	101	18	1,627	4,612	923	13.6	21.8	19.9
Number of Elevators									
One	11	23	6	860	1,475	369	12.7	15.4	17.2
Two to Five	9	43	Q	644	1,900	Q	13.5	22.8	Q
Six or More	Q	35	Q	Q	1,237	Q	Q	28.1	Q
Any Escalators	Q	Q	Q	Q	Q	Q	Q	Q	Q
Number of Workers (main shift)									
Fewer than 5	10	23	7	1,606	2,375	933	6.2	9.7	7.7
5 to 9	8	14	7	598	1,264	476	12.7	11.3	15.7
10 to 19	8	21	5	867	1,392	350	9.5	15.0	14.5
20 to 49	13	31	14	876	1,773	701	14.4	17.5	19.7
50 to 99	12	27	Q	742	1,611	Q	16.3	16.9	Q
100 to 249	Q	42	Q	Q	1,737	Q	Q	24.0	Q
250 or More	5	52	6	242	1,943	211	19.3	26.8	26.9
Weekly Operating Hours									
Fewer than 40	3	7	2	619	1,134	308	4.3	6.0	5.6
40 to 48	9	24	11	1,001	2,107	770	9.1	11.2	13.8
49 to 60	13	37	Q	1,273	3,071	610	10.0	11.9	12.7
61 to 84	11	37	10	837	1,926	593	13.1	19.1	17.3
85 to 167	10	40	Q	558	1,370	Q	17.9	28.8	Q
Open Continuously	17	67	16	1,040	2,488	769	16.3	26.9	20.4
Ownership and Occupancy									
Nongovernment Owned	52	148	35	4,314	8,895	2,308	12.0	16.6	15.3
Owner Occupied	28	71	14	2,416	4,141	962	11.5	17.2	14.5
Nonowner Occupied	24	76	21	1,846	4,572	1,335	12.9	16.7	16.0
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	11	62	15	1,014	3,202	912	10.5	19.5	16.1
Federal	Q	Q	Q	Q	Q	Q	Q	29.3	Q
State	Q	14	8	Q	726	485	Q	19.6	17.5
Local	7	36	5	710	2,071	369	10.0	17.5	13.4
Vacancy Status									
Completely Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	N	Q	Q	N	Q	Q	N
Partially Vacant	9	27	5	854	1,939	358	11.0	14.1	12.7
Not At All Vacant	52	182	45	4,329	9,961	2,851	12.1	18.3	15.9
Number of Establishments									
One	45	151	37	3,936	8,797	2,587	11.5	17.2	14.5
2 to 5	12	37	8	970	2,139	385	12.2	17.2	20.3
6 to 10	Q	Q	Q	Q	Q	Q	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
Predominant Exterior Wall Material									
Brick, Stone or Stucco	26	99	26	2,078	6,021	1,746	12.3	16.5	15.0
Concrete (Block or Poured)	14	38	11	1,002	2,355	631	13.8	16.2	18.2
Concrete Panels	7	38	Q	375	1,416	Q	19.1	26.9	Q
Siding or Shingles	6	8	Q	638	638	Q	9.0	12.0	Q
Metal Panels	9	21	Q	1,150	1,345	530	8.0	15.5	Q
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	N	Q	Q	N	Q	Q	N
Predominant Roof Material									
Built-Up	20	72	15	1,338	4,119	762	14.8	17.6	19.7
Shingles (Not Wood)	10	26	9	1,116	1,864	638	9.2	14.0	13.8
Metal Surfacing	12	28	11	1,488	2,456	1,012	8.3	11.4	10.7
Synthetic or Rubber	16	60	13	990	2,449	638	16.1	24.4	20.3
Slate or Tile	Q	9	Q	Q	604	Q	Q	15.1	Q
Wooden Materials	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete	Q	Q	N	Q	Q	N	Q	Q	N
Other	Q	Q	N	Q	Q	N	Q	Q	N
No One Major Type	Q	Q	N	Q	Q	N	Q	Q	N
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	21	39	12	1,945	2,304	884	10.7	16.7	13.8
Addition or Annex	11	14	6	727	884	392	15.0	15.9	16.2
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	17	25	10	1,525	1,497	677	10.9	16.5	14.8
Wall or Roof Replacement	9	18	6	871	961	340	9.8	18.3	17.4
Interior Wall Re-Configuration	10	18	6	877	1,036	334	11.7	17.0	18.0
HVAC Equipment Upgrade	14	27	8	1,197	1,559	464	11.6	17.5	17.0
Lighting Upgrade	12	18	7	1,074	1,186	440	11.5	15.5	16.6
Window Replacement	6	8	Q	508	505	Q	11.7	15.0	Q
Plumbing System Upgrade	7	12	Q	721	782	Q	9.8	16.0	Q
Insulation Upgrade	6	7	Q	512	468	Q	10.9	15.6	Q
Other Renovation	N	Q	Q	N	Q	Q	N	Q	Q
No Renovations Since 1980	14	34	12	1,500	2,542	885	9.2	13.5	14.1
Building Newer than 1980	28	137	25	1,883	7,251	1,452	14.8	18.9	17.5
Energy Sources (more than one may apply)									
Electricity	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
Natural Gas	46	122	36	3,593	6,326	2,281	12.8	19.3	15.7
Fuel Oil	14	52	8	961	2,639	341	14.8	19.8	22.9
District Heat	Q	29	Q	Q	1,243	Q	Q	23.1	Q
District Chilled Water	Q	15	Q	Q	667	Q	Q	22.9	Q
Propane	10	26	Q	991	1,548	Q	9.9	16.7	8.5
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
Space-Heating Energy Sources									
Electricity	31	135	23	2,328	7,347	1,411	13.2	18.4	16.4
Electricity Main	16	86	15	1,058	4,968	791	15.0	17.3	19.0
Electricity Secondary	15	49	8	1,269	2,379	620	11.7	20.5	13.2
Other Excluding Electricity	31	66	26	2,778	3,662	1,645	11.3	18.0	15.7
Buildings without Heating	Q	9	Q	Q	1,087	Q	Q	8.5	Q
Primary Space-Heating Energy Source									
Electricity	16	86	15	1,058	4,968	791	15.0	17.3	19.0
Natural Gas	37	79	27	3,091	4,175	1,817	12.0	18.9	14.8
Fuel Oil	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Heat	Q	27	Q	Q	1,149	Q	Q	23.3	Q
Propane	Q	5	Q	496	456	Q	8.7	10.8	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling Energy Sources									
Electricity	60	198	46	4,625	10,969	2,820	12.9	18.0	16.3
Other Excluding Electricity	Q	Q	Q	Q	505	Q	Q	22.0	Q
Buildings without Cooling	2	1	Q	634	623	Q	3.1	2.1	Q
Water-Heating Energy Sources									
Electricity	29	126	26	2,391	7,033	1,581	12.3	17.9	16.4
Other Excluding Electricity	30	77	22	2,329	3,681	1,277	12.8	20.9	17.3
Bldgs without Water Heating	Q	8	Q	608	1,383	363	5.6	5.5	5.3
Cooking Energy Sources									
Electricity	14	62	13	850	2,611	665	16.0	23.6	19.1
Other Excluding Electricity	9	37	7	622	1,587	390	15.2	23.1	18.2
Buildings without Cooking	39	112	30	3,856	7,899	2,165	10.2	14.2	14.0
Energy End Uses (more than one may apply)									
Buildings with Space Heating	62	201	49	5,106	11,009	3,056	12.2	18.3	16.0
Buildings with Cooling	60	209	49	4,694	11,474	2,985	12.9	18.2	16.5
Buildings with Water Heating	59	203	48	4,720	10,714	2,858	12.5	18.9	16.8
Buildings with Cooking	23	98	20	1,472	4,198	1,055	15.6	23.4	18.7
Buildings with Manufacturing	Q	Q	Q	Q	Q	Q	Q	Q	Q
Buildings with Electricity Generation	14	52	8	760	2,396	324	18.4	21.7	24.9
Percent of Floorspace Heated									
Not Heated	Q	9	Q	Q	1,087	Q	Q	8.5	Q
1 to 50	2	15	Q	356	1,105	353	6.8	13.7	10.8
51 to 99	7	30	6	513	1,864	309	12.8	15.9	20.7
100	53	156	39	4,236	8,041	2,394	12.5	19.4	16.2
Percent of Floorspace Cooled									
Not Cooled	2	1	Q	634	623	Q	3.1	2.1	Q
1 to 50	13	25	Q	1,571	2,418	472	8.0	10.2	9.2
51 to 99	19	46	9	1,325	2,624	459	14.4	17.4	19.0
100	29	139	36	1,797	6,431	2,054	16.0	21.5	17.7

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
Percent Lit When Open									
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	7	10	4	1,178	1,313	505	6.1	7.8	8.2
51 to 99	18	58	14	1,658	3,293	913	11.2	17.7	15.5
100	36	141	32	2,362	7,210	1,730	15.4	19.5	18.3
Building Never Open/ Electricity Not Used	Q	Q	Q	Q	Q	Q	Q	Q	Q
Percent Lit When Closed									
Zero	15	37	5	1,936	3,431	623	8.0	10.9	8.8
1 to 50	27	93	26	2,192	5,687	1,682	12.3	16.4	15.5
51 to 100	Q	13	Q	Q	491	Q	Q	26.4	Q
Building Never Closed/ Electricity Not Used	17	67	16	1,040	2,488	769	16.3	26.9	20.4
Heating Equipment (more than one may apply)									
Heat Pumps	4	64	9	339	3,677	542	12.9	17.5	16.8
Packaged Heat Pumps	Q	45	Q	Q	2,145	Q	Q	20.8	Q
Split-System Heat Pumps	Q	23	Q	Q	1,459	Q	Q	15.7	Q
Individual Room Heat Pumps	Q	16	Q	Q	1,039	Q	Q	15.3	Q
Furnaces	32	34	9	2,657	2,772	895	12.0	12.4	10.3
Individual Space Heaters	20	38	7	1,625	2,148	563	12.3	17.9	12.6
District Heat	Q	27	Q	Q	1,173	Q	Q	23.3	Q
Boilers	19	47	18	1,675	2,135	786	11.2	21.9	22.6
Packaged Heating Units	17	78	20	1,135	3,917	1,215	15.0	20.0	16.4
Other	7	12	Q	383	902	Q	17.0	13.8	Q
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	18	32	6	1,568	1,843	489	11.5	17.4	12.1
Heat Pumps	4	67	11	317	3,742	586	12.5	18.0	18.6
Packaged Heat Pumps	Q	43	Q	Q	2,104	Q	Q	20.6	19.2
Split-System Heat Pumps	Q	24	Q	Q	1,494	Q	Q	16.2	Q
Individual Room Heat Pumps	Q	18	Q	Q	1,079	Q	Q	17.1	Q
Individual Air Conditioners	13	35	7	1,289	2,218	610	9.7	15.7	11.5
District Chilled Water	Q	15	Q	Q	667	Q	Q	22.9	Q
Central Chillers	11	63	13	768	2,489	594	14.8	25.1	21.2
Packaged Air Conditioning Units	39	96	26	2,581	5,520	1,555	15.1	17.4	16.7
Swamp Coolers	N	Q	Q	N	Q	Q	N	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	21	34	12	1,754	2,250	886	11.8	14.9	13.6
Cooling	22	49	17	2,052	3,111	1,059	10.7	15.6	16.0
Water Heating Equipment									
Centralized System	38	106	32	3,029	5,649	1,890	12.4	18.7	16.7
Distributed System	10	38	7	920	2,432	469	10.5	15.8	14.1
Combination of Centralized and Distributed System	12	58	10	771	2,633	499	15.3	22.2	19.7

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
Lighting Equipment Types (more than one may apply)									
Incandescent	45	138	32	3,762	7,028	1,984	12.1	19.6	16.2
Standard Fluorescent	61	203	49	5,006	11,245	3,022	12.2	18.0	16.1
Compact Fluorescent	31	114	26	1,983	4,856	1,262	15.7	23.4	20.8
High Intensity Discharge	19	84	13	1,515	4,053	706	12.8	20.7	18.2
Halogen	22	83	12	1,402	3,474	620	15.7	24.0	19.0
Other	N	Q	Q	N	Q	Q	N	Q	Q
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	57	198	47	4,544	10,256	2,829	12.5	19.3	16.7
Commercial Refrigeration	29	137	27	1,835	5,426	1,145	15.8	25.2	23.2
Walk-In Units	24	121	23	1,341	4,324	862	17.6	27.9	27.1
Cases or Cabinets	22	106	23	1,276	4,246	993	17.0	25.1	22.9
Residential-Type Units	41	118	26	3,545	7,043	1,834	11.7	16.8	14.4
Vending Machines	37	145	35	2,817	7,066	2,056	13.1	20.5	17.0
No Refrigeration	6	12	Q	784	1,841	392	7.4	6.5	Q
Office Equipment (more than one may apply)									
Computers	58	193	47	4,533	10,483	2,724	12.8	18.4	17.3
With Flat Screen Monitors	28	103	25	1,762	4,768	1,314	15.7	21.6	19.2
Dedicated Servers	43	137	31	2,796	6,839	1,606	15.2	20.0	19.3
Laser Printers	32	106	29	2,784	6,059	1,813	11.4	17.6	15.8
Inkjet Printers	38	125	27	2,489	6,138	1,502	15.3	20.4	18.2
FAX Machines	55	187	45	4,157	9,973	2,551	13.2	18.8	17.5
Photocopiers	46	164	36	3,586	8,821	2,211	13.0	18.6	16.3
Number of Computers									
None	4	17	3	795	1,613	496	5.4	10.8	5.8
1 to 4	12	35	13	1,207	2,124	807	10.0	16.6	16.0
5 to 9	10	14	6	826	1,154	520	12.5	12.3	12.3
10 to 19	8	17	Q	621	1,321	Q	13.6	13.2	Q
20 to 49	10	25	10	736	1,207	437	13.5	20.7	23.3
50 to 99	Q	23	Q	Q	1,265	Q	Q	18.1	Q
100 to 249	8	26	Q	630	1,353	Q	12.8	19.6	Q
250 or More	4	52	Q	208	2,059	Q	21.4	25.1	Q
Number of Dedicated Servers									
None	20	74	19	2,532	5,258	1,615	7.8	14.0	11.8
1 to 4	35	72	25	2,366	4,155	1,272	14.6	17.3	19.5
5 to 9	Q	23	Q	Q	966	Q	Q	24.0	Q
10 to 19	Q	22	Q	Q	837	Q	Q	26.2	Q
20 to 49	Q	11	Q	Q	524	Q	Q	21.9	Q
50 or More	Q	Q	Q	Q	Q	Q	Q	22.2	Q
Number of Photocopiers									
None	16	46	14	1,742	3,276	1,009	9.2	14.0	13.8
One	18	37	10	1,615	2,611	1,016	11.1	14.2	10.2
2 to 4	16	53	14	1,281	3,060	659	12.7	17.4	20.5
5 to 9	6	22	Q	388	1,124	Q	14.8	19.9	Q
10 or More	7	52	7	302	2,026	284	21.7	25.6	24.0

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	23	98	20	1,472	4,196	1,055	15.6	23.4	18.7
Activities with Large Amounts of Hot Water	24	94	16	1,678	4,178	949	14.3	22.4	17.2
Separate Computer Area	26	106	20	1,723	5,236	1,028	15.1	20.3	19.1
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	23	86	18	1,342	3,818	788	16.8	22.6	22.5
Economizer Cycle	26	90	17	1,533	3,815	828	17.2	23.6	21.0
HVAC Maintenance	47	187	41	3,701	9,547	2,258	12.8	19.6	18.0
Energy Management and Control System (EMCS)	16	70	11	965	3,426	542	16.2	20.4	20.4
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	49	131	30	3,724	7,178	1,678	13.1	18.3	17.8
Tinted Window Glass	26	127	21	1,925	6,495	1,167	13.5	19.6	18.3
Reflective Window Glass	11	33	7	711	1,655	255	14.8	19.9	28.8
External Overhangs or Awnings	23	71	18	1,684	3,812	1,016	13.8	18.6	17.8
Skylights or Atriums	12	35	7	929	1,828	429	13.2	18.9	16.9
Daylighting Sensors	Q	8	Q	Q	448	Q	Q	18.9	Q
Specular Reflectors	26	99	14	1,896	4,553	785	13.9	21.8	17.8
Electronic Ballasts	52	171	37	3,987	8,835	2,177	13.0	19.3	17.0
Energy Management and Control System (EMCS) For Lighting	Q	15	Q	Q	810	Q	Q	18.5	Q
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	37	128	31	3,314	7,843	2,124	11.2	16.3	14.4
Cooling	37	140	33	3,323	8,678	2,175	11.1	16.2	15.0
Lighting	43	137	33	4,037	9,061	2,340	10.6	15.1	13.9
Office Equipment	16	50	10	1,767	3,468	703	9.3	14.3	13.9
Annual Consumption (kilowatthours)									
10,000 or Less	1	1	Q	430	302	Q	1.2	2.0	Q
10,001 to 50,000	6	8	3	1,004	1,684	546	5.9	4.8	5.8
50,001 to 100,000	5	11	4	580	1,284	376	8.5	9.0	10.8
100,001 to 500,000	19	43	13	1,502	2,743	871	12.9	15.6	15.1
500,001 to 1,000,000	7	29	Q	687	1,454	Q	10.8	20.2	Q
1,000,001 to 5,000,000	20	61	15	948	2,661	587	21.3	22.8	25.9
Over 5,000,000	Q	57	7	Q	1,968	247	Q	29.2	28.5

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
Provider of Purchased Electricity (more than one may apply)									
Local Utility	59	193	48	5,095	11,510	3,167	11.5	16.8	15.3
Some Other Provider	Q	Q	Q	Q	Q	Q	Q	31.3	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 9.7 percent of total electricity consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use electricity.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
Building Floorspace (Square Feet)									
1,001 to 5,000	17	7	12	696	437	857	24.1	15.7	14.0
5,001 to 10,000	11	5	14	787	404	810	13.4	12.0	16.9
10,001 to 25,000	11	10	13	1,267	831	1,232	8.9	11.7	10.3
25,001 to 50,000	12	7	12	897	511	1,088	13.6	13.2	11.0
50,001 to 100,000	16	5	12	1,314	374	922	12.1	12.7	13.3
100,001 to 200,000	20	Q	13	1,096	Q	895	18.2	Q	14.5
200,001 to 500,000	12	5	11	659	Q	827	18.4	14.3	13.5
Over 500,000	Q	Q	9	Q	Q	766	Q	Q	12.4
Principal Building Activity									
Education	15	6	11	1,198	640	1,027	12.8	9.4	10.7
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	Q	Q	7	Q	Q	232	Q	Q	31.8
Health Care	8	6	6	309	230	323	27.5	25.8	20.1
Inpatient	7	Q	Q	235	Q	Q	29.7	Q	Q
Outpatient	Q	Q	Q	Q	Q	Q	Q	Q	Q
Lodging	Q	Q	8	Q	438	649	Q	Q	11.9
Retail (Other Than Mall)	9	Q	10	594	Q	753	15.8	Q	13.4
Office	27	10	26	1,343	629	1,796	19.9	16.3	14.6
Public Assembly	Q	Q	Q	Q	Q	464	Q	Q	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	4	Q	Q	467	Q	Q	8.1	Q	Q
Service	Q	Q	3	Q	Q	319	Q	Q	8.0
Warehouse and Storage	7	Q	6	1,581	Q	1,000	4.3	Q	5.9
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	Q	Q	Q	Q	Q	Q	Q	Q	Q
1920 to 1945	Q	Q	7	Q	Q	783	Q	Q	9.1
1946 to 1959	4	3	9	455	255	750	9.3	13.4	11.3
1960 to 1969	8	7	10	675	592	1,000	12.5	12.4	10.2
1970 to 1979	22	15	16	1,307	924	1,156	16.5	16.7	13.7
1980 to 1989	34	13	22	1,840	688	1,541	18.4	19.4	14.6
1990 to 1999	28	11	24	1,792	612	1,367	15.6	17.2	17.4
2000 to 2003	13	4	7	907	292	638	14.2	12.7	11.0
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	N	27	Q	N	2,081	Q	N	13.1	14.7
5,500-7,000 HDD	N	16	Q	N	1,075	Q	N	14.8	15.1
4,000-5,499 HDD	Q	N	Q	Q	N	693	Q	N	14.0
Fewer than 4,000 HDD	27	N	63	1,891	N	5,187	14.3	N	12.1
2,000 CDD or More and --									
Fewer than 4,000 HDD	82	13	Q	5,153	476	Q	16.0	26.8	Q
Number of Floors									
One	54	23	37	4,026	1,830	3,020	13.4	12.4	12.4
Two	17	14	26	1,330	990	1,969	12.9	14.5	13.2
Three	7	Q	9	453	Q	715	14.4	Q	12.3
Four to Nine	17	7	14	736	338	990	23.5	20.5	14.4
Ten or More	19	Q	10	904	Q	Q	21.6	Q	14.1

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
All Buildings*	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
Elevators and Escalators (more than one may apply)									
Any Elevators	49	23	40	2,407	1,069	2,772	20.4	22.0	14.4
Number of Elevators									
One	7	5	7	623	414	649	11.8	13.1	11.0
Two to Five	19	5	17	808	275	1,085	24.0	19.6	15.9
Six or More	22	Q	15	975	Q	1,039	22.8	Q	14.9
Any Escalators	Q	Q	Q	Q	Q	Q	Q	Q	Q
Number of Workers (main shift)									
Fewer than 5	12	7	12	1,658	724	1,512	7.1	9.8	7.6
5 to 9	11	4	8	835	345	678	13.0	11.2	12.2
10 to 19	13	5	8	999	428	681	13.3	12.2	12.2
20 to 49	24	10	17	1,408	645	1,264	16.7	14.7	13.5
50 to 99	14	7	12	840	558	812	17.2	11.9	14.7
100 to 249	10	6	18	451	311	1,086	22.9	19.5	16.5
250 or More	30	Q	21	1,259	Q	1,364	23.8	28.2	15.6
Weekly Operating Hours									
Fewer than 40	4	1	3	656	270	623	5.4	4.4	5.4
40 to 48	17	8	13	1,688	783	1,378	10.1	10.6	9.1
49 to 60	22	7	22	1,872	712	1,744	12.0	10.2	12.5
61 to 84	20	9	16	1,227	592	1,352	16.5	14.5	11.7
85 to 167	22	Q	15	829	Q	901	26.8	Q	16.8
Open Continuously	29	24	28	1,177	931	1,401	24.4	26.0	19.8
Ownership and Occupancy									
Nongovernment Owned	90	41	78	5,949	2,569	5,891	15.1	16.0	13.3
Owner Occupied	37	13	37	2,700	976	2,641	13.8	13.0	14.1
Nonowner Occupied	53	28	41	3,114	1,582	3,149	16.9	18.0	12.9
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	24	15	18	1,500	1,064	1,507	16.3	13.9	12.0
Federal	Q	Q	Q	Q	Q	Q	Q	Q	Q
State	Q	Q	6	Q	Q	565	Q	Q	11.3
Local	14	10	11	961	681	861	14.1	14.3	12.4
Vacancy Status									
Completely Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	29	12	16	1,623	750	1,329	17.7	15.3	12.0
Not At All Vacant	85	44	80	5,687	2,855	5,914	15.0	15.5	13.4
Number of Establishments									
One	76	42	66	5,186	2,767	4,912	14.7	15.0	13.5
2 to 5	14	8	17	1,193	524	1,362	12.1	14.4	12.2
6 to 10	Q	Q	3	Q	Q	211	Q	Q	13.3
11 to 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
Predominant Exterior Wall Material									
Brick, Stone or Stucco	62	20	39	3,597	1,551	3,070	17.1	13.2	12.6
Concrete (Block or Poured)	17	8	18	937	450	1,315	18.4	17.7	14.0
Concrete Panels	17	Q	12	1,114	Q	1,204	15.6	19.6	10.1
Siding or Shingles	4	Q	9	281	Q	461	14.4	12.0	Q
Metal Panels	8	8	10	1,212	604	885	6.3	13.3	11.8
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material									
Built-Up	40	26	34	2,346	1,421	2,959	17.1	18.1	11.6
Shingles (Not Wood)	11	5	15	769	475	1,011	14.3	10.1	15.2
Metal Surfacing	20	10	11	2,420	903	958	8.3	10.8	11.7
Synthetic or Rubber	30	12	19	1,194	664	1,209	25.3	18.6	16.1
Slate or Tile	Q	Q	6	Q	Q	552	Q	Q	11.7
Wooden Materials	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	N	Q	Q	N	Q	Q	N	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	18	17	21	1,157	1,095	1,746	15.1	15.9	12.1
Addition or Annex	10	9	6	529	551	428	19.0	16.8	15.0
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	13	12	18	828	718	1,465	15.5	17.2	12.5
Wall or Roof Replacement	7	7	10	549	504	789	12.1	13.6	13.0
Interior Wall Re-Configuration	8	12	12	564	637	870	13.4	18.7	13.6
HVAC Equipment Upgrade	9	14	14	559	776	1,049	16.4	18.3	13.1
Lighting Upgrade	7	14	14	463	733	1,042	15.5	18.6	13.4
Window Replacement	Q	5	7	Q	332	510	Q	16.2	13.0
Plumbing System Upgrade	Q	10	11	Q	517	852	Q	19.4	12.5
Insulation Upgrade	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other Renovation	N	Q	Q	N	Q	Q	N	Q	Q
No Renovations Since 1980	22	11	22	1,752	945	2,106	12.6	11.5	10.3
Building Newer than 1980	75	28	53	4,540	1,593	3,545	16.4	17.3	15.0
Energy Sources (more than one may apply)									
Electricity	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
Natural Gas	82	44	64	4,698	2,797	5,016	17.5	15.6	12.7
Fuel Oil	26	Q	27	1,141	626	1,497	22.9	26.0	18.0
District Heat	Q	Q	6	Q	Q	413	Q	Q	14.1
District Chilled Water	Q	Q	Q	Q	Q	Q	Q	Q	Q
Propane	Q	Q	13	Q	555	618	Q	18.8	21.3
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
Space-Heating Energy Sources									
Electricity	70	26	47	4,300	1,389	3,526	16.2	18.5	13.5
Electricity Main	52	14	32	3,325	789	2,325	15.7	17.2	13.7
Electricity Secondary	18	Q	16	975	599	1,201	18.1	20.2	13.1
Other Excluding Electricity	41	27	41	2,624	2,136	3,052	15.7	12.7	13.3
Buildings without Heating	Q	Q	8	Q	Q	820	Q	Q	10.0
Primary Space-Heating Energy Source									
Electricity	52	14	32	3,325	789	2,325	15.7	17.2	13.7
Natural Gas	56	34	45	3,303	2,277	3,633	17.0	14.8	12.5
Fuel Oil	N	Q	Q	N	Q	Q	N	Q	Q
District Heat	Q	Q	5	Q	Q	362	Q	Q	13.3
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	N	Q	Q	N	Q	Q	N	Q	Q
Cooling Energy Sources									
Electricity	110	52	88	6,834	3,186	6,328	16.1	16.4	13.9
Other Excluding Electricity	Q	Q	Q	Q	Q	Q	Q	Q	Q
Buildings without Cooling	Q	2	4	Q	366	715	Q	5.6	5.9
Water-Heating Energy Sources									
Electricity	48	20	39	3,267	1,236	2,771	14.8	16.3	14.0
Other Excluding Electricity	60	35	52	3,074	2,187	3,655	19.4	15.9	14.3
Bldgs without Water Heating	6	Q	5	1,108	Q	972	5.7	Q	5.4
Cooking Energy Sources									
Electricity	38	18	20	1,623	791	1,192	23.4	23.1	16.4
Other Excluding Electricity	23	6	20	1,005	418	1,089	22.7	14.1	18.3
Buildings without Cooking	53	32	57	4,821	2,424	5,117	11.1	13.1	11.1
Energy End Uses (more than one may apply)									
Buildings with Space Heating	111	53	88	6,924	3,525	6,577	16.0	15.0	13.4
Buildings with Cooling	113	54	92	7,094	3,267	6,683	16.0	16.5	13.8
Buildings with Water Heating	108	55	91	6,341	3,422	6,426	17.0	16.0	14.2
Buildings with Cooking	61	24	39	2,628	1,209	2,280	23.1	20.0	17.3
Buildings with Manufacturing	Q	Q	Q	Q	Q	Q	Q	Q	Q
Buildings with Electricity Generation	30	18	26	1,297	738	1,504	23.4	24.9	17.1
Percent of Floorspace Heated									
Not Heated	Q	Q	8	Q	Q	820	Q	Q	10.0
1 to 50	7	Q	12	1,379	Q	1,257	5.4	Q	9.3
51 to 99	14	11	18	718	569	1,381	20.2	19.7	12.7
100	89	40	59	4,828	2,721	3,940	18.5	14.7	14.9
Percent of Floorspace Cooled									
Not Cooled	Q	2	4	Q	366	715	Q	5.6	5.9
1 to 50	10	10	15	2,025	918	1,738	5.0	11.2	8.7
51 to 99	19	16	23	820	886	1,559	23.2	17.7	14.5
100	84	28	54	4,249	1,463	3,386	19.8	19.0	16.1

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
All Buildings*	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
Percent Lit When Open									
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	11	3	9	1,371	382	1,130	8.1	6.7	8.0
51 to 99	30	17	29	1,928	1,095	2,161	15.5	15.2	13.3
100	73	37	58	3,933	2,136	3,947	18.5	17.1	14.7
Building Never Open/ Electricity Not Used	Q	Q	Q	Q	Q	Q	Q	Q	Q
Percent Lit When Closed									
Zero	18	10	19	2,239	1,118	1,994	7.9	8.9	9.6
1 to 50	60	21	47	3,658	1,526	3,823	16.3	13.5	12.4
51 to 100	8	Q	Q	374	Q	Q	22.0	Q	Q
Building Never Closed/ Electricity Not Used	29	24	28	1,177	931	1,401	24.4	26.0	19.8
Heating Equipment (more than one may apply)									
Heat Pumps	12	Q	17	722	Q	1,268	16.2	Q	13.4
Packaged Heat Pumps	Q	Q	10	Q	Q	741	Q	Q	13.6
Split-System Heat Pumps	Q	Q	5	Q	Q	305	Q	Q	16.9
Individual Room Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q
Furnaces	28	14	22	2,048	1,302	1,773	13.6	11.0	12.6
Individual Space Heaters	11	9	15	893	692	1,290	12.1	13.1	11.3
District Heat	Q	Q	5	Q	Q	362	Q	Q	13.3
Boilers	30	23	33	1,472	1,359	2,302	20.3	17.1	14.2
Packaged Heating Units	52	12	35	2,998	748	2,564	17.5	16.6	13.7
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	14	4	11	1,523	341	841	8.9	11.7	13.1
Heat Pumps	10	Q	18	595	430	1,355	17.4	30.1	13.0
Packaged Heat Pumps	Q	Q	10	Q	Q	742	Q	Q	13.4
Split-System Heat Pumps	Q	Q	6	Q	Q	322	Q	Q	17.2
Individual Room Heat Pumps	Q	Q	6	Q	Q	546	Q	Q	11.3
Individual Air Conditioners	9	11	12	806	730	1,019	11.7	15.7	11.5
District Chilled Water	Q	Q	Q	Q	Q	Q	Q	Q	Q
Central Chillers	40	15	25	1,771	621	1,466	22.7	24.8	16.9
Packaged Air Conditioning Units	54	31	52	3,325	1,655	3,826	16.2	18.7	13.5
Swamp Coolers	Q	11	8	Q	874	468	Q	12.3	16.6
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	23	21	17	1,670	1,133	1,455	13.5	18.9	11.6
Cooling	33	24	23	2,245	1,356	2,018	14.6	18.0	11.5
Water Heating Equipment									
Centralized System	72	25	55	3,998	1,928	3,712	17.9	12.8	14.9
Distributed System	21	9	15	1,664	566	1,415	12.8	15.4	10.7
Combination of Centralized and Distributed System	15	21	21	679	928	1,299	22.1	23.1	15.9

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
Lighting Equipment Types (more than one may apply)									
Incandescent	78	41	57	4,033	2,443	3,965	19.2	16.6	14.5
Standard Fluorescent	111	55	93	6,955	3,534	7,066	16.0	15.4	13.2
Compact Fluorescent	59	32	59	2,764	1,748	4,024	21.5	18.2	14.6
High Intensity Discharge	27	15	35	1,470	977	2,438	18.5	15.8	14.2
Halogen	35	20	33	2,099	993	2,275	16.9	20.1	14.3
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	103	51	84	6,018	3,028	5,919	17.1	16.7	14.3
Commercial Refrigeration	73	32	47	3,067	1,398	2,674	24.0	23.2	17.6
Walk-In Units	60	26	40	2,284	1,073	2,059	26.4	24.3	19.2
Cases or Cabinets	61	27	40	2,425	1,093	2,185	25.3	24.8	18.5
Residential-Type Units	66	32	55	4,285	2,232	4,410	15.4	14.3	12.5
Vending Machines	76	39	56	4,412	2,058	3,783	17.3	18.9	14.7
No Refrigeration	12	5	12	1,431	605	1,478	8.1	8.9	8.0
Office Equipment (more than one may apply)									
Computers	107	53	92	6,507	3,282	6,698	16.5	16.1	13.7
With Flat Screen Monitors	62	27	53	3,053	1,365	3,575	20.4	19.8	14.9
Dedicated Servers	74	36	65	4,204	1,959	4,335	17.5	18.2	14.9
Laser Printers	53	33	53	3,694	2,165	3,723	14.3	15.2	14.3
Inkjet Printers	72	33	57	3,840	1,901	4,108	18.8	17.2	13.8
FAX Machines	103	51	85	6,258	2,983	6,140	16.4	17.0	13.9
Photocopiers	84	46	75	5,281	2,753	5,439	16.0	16.9	13.7
Number of Computers									
None	7	3	4	942	351	699	7.7	9.0	6.3
1 to 4	22	8	14	1,488	707	1,444	15.1	11.5	9.9
5 to 9	9	7	10	864	450	649	10.4	16.6	14.8
10 to 19	11	5	11	910	371	825	11.6	14.0	13.0
20 to 49	14	8	17	780	548	1,006	18.3	14.6	17.4
50 to 99	9	Q	10	490	Q	784	17.6	Q	12.9
100 to 249	13	8	12	660	448	869	19.2	17.5	13.4
250 or More	30	Q	18	1,315	473	1,122	22.4	26.3	16.1
Number of Dedicated Servers									
None	41	20	32	3,245	1,674	3,062	12.5	12.0	10.3
1 to 4	40	23	36	2,782	1,428	2,665	14.2	15.8	13.6
5 to 9	Q	Q	11	Q	Q	601	Q	Q	18.3
10 to 19	Q	Q	6	Q	Q	414	Q	Q	15.4
20 to 49	Q	Q	Q	Q	Q	Q	Q	Q	Q
50 or More	Q	Q	Q	Q	Q	Q	Q	Q	Q
Number of Photocopiers									
None	30	10	22	2,169	880	1,958	13.8	10.8	11.1
One	21	12	21	1,833	995	1,757	11.5	11.9	11.8
2 to 4	25	13	22	1,799	887	1,706	13.8	14.9	12.7
5 to 9	Q	Q	12	Q	Q	634	Q	Q	18.6
10 or More	29	19	20	1,243	690	1,341	23.0	27.4	15.2

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	61	24	39	2,628	1,209	2,269	23.1	20.0	17.3
Activities with Large Amounts of Hot Water	36	26	35	1,776	1,384	2,048	20.5	19.0	17.1
Separate Computer Area	58	30	49	3,132	1,607	3,462	18.4	18.6	14.3
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	54	25	35	2,743	1,236	2,232	19.7	20.0	15.7
Economizer Cycle	45	29	44	1,988	1,383	3,069	22.6	21.1	14.2
HVAC Maintenance	102	50	88	5,836	3,065	6,282	17.5	16.2	14.0
Energy Management and Control System (EMCS)	38	18	31	1,834	857	2,170	21.0	21.4	14.5
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	65	42	43	3,416	2,649	2,880	19.2	15.8	15.0
Tinted Window Glass	70	33	52	4,170	1,617	3,999	16.7	20.2	13.1
Reflective Window Glass	26	7	16	1,098	489	1,206	23.8	13.7	13.2
External Overhangs or Awnings	37	24	31	1,921	1,521	2,025	19.2	15.5	15.4
Skylights or Atriums	29	19	19	1,656	1,001	1,452	17.4	18.5	13.3
Daylighting Sensors	Q	Q	15	Q	Q	674	Q	Q	22.6
Specular Reflectors	50	28	45	2,533	1,307	3,396	19.7	21.2	13.2
Electronic Ballasts	93	48	81	5,446	2,905	5,621	17.1	16.6	14.5
Energy Management and Control System (EMCS) For Lighting	14	Q	16	629	Q	923	22.9	Q	17.2
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	72	36	70	4,688	2,456	5,183	15.4	14.8	13.4
Cooling	80	40	72	5,241	2,449	5,380	15.3	16.1	13.3
Lighting	80	31	66	5,715	2,608	5,674	14.0	11.9	11.7
Office Equipment	23	12	24	2,255	1,030	2,260	10.2	11.7	10.7
Annual Consumption (kilowatthours)									
10,000 or Less	Q	Q	1	Q	Q	292	Q	Q	1.8
10,001 to 50,000	6	3	6	1,156	564	1,201	5.0	5.4	4.9
50,001 to 100,000	6	3	7	788	299	701	7.4	9.4	9.9
100,001 to 500,000	27	16	25	1,788	1,146	1,858	15.3	14.2	13.4
500,001 to 1,000,000	12	Q	10	923	Q	657	12.9	Q	15.2
1,000,001 to 5,000,000	35	12	32	1,443	665	1,770	24.3	18.1	17.9
Over 5,000,000	28	Q	16	1,123	Q	918	24.7	30.4	17.9

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
Provider of Purchased Electricity (more than one may apply)									
Local Utility	89	54	88	5,901	3,544	6,940	15.1	15.3	12.7
Some Other Provider	23	Q	Q	1,335	Q	Q	16.9	Q	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 9.7 percent of total electricity consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use electricity.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Total Electricity Consumption (billion kWh)					Total Floorspace of Buildings Using Electricity (million square feet)					Electricity Energy Intensity (kWh/square foot)				
	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*	120	224	166	219	161	10,393	17,076	11,375	15,172	9,290	11.5	13.1	14.6	14.5	17.3
Building Floorspace (Square Feet)															
1,001 to 5,000	19	26	14	31	23	1,204	1,595	918	1,759	871	15.7	16.5	14.9	17.8	26.3
5,001 to 10,000	11	17	12	24	13	1,124	1,547	950	1,738	839	9.9	10.9	12.8	13.7	15.3
10,001 to 25,000	18	29	23	25	24	2,183	3,140	1,402	2,822	1,823	8.3	9.2	16.1	9.0	13.3
25,001 to 50,000	18	24	15	25	22	1,451	2,199	1,272	2,027	1,435	12.2	10.8	11.6	12.3	15.1
50,001 to 100,000	15	32	24	28	19	1,295	2,549	1,823	2,037	1,327	11.8	12.6	13.2	13.8	14.3
100,001 to 200,000	15	40	24	41	22	1,206	2,641	1,752	2,259	1,160	12.4	15.3	13.5	17.9	18.8
200,001 to 500,000	14	27	21	25	19	1,115	1,943	1,619	1,432	942	12.3	13.7	13.1	17.8	20.0
Over 500,000	Q	29	34	20	20	Q	1,463	1,639	1,098	893	12.0	19.8	20.9	17.9	22.1
Principal Building Activity															
Education	13	23	16	31	27	1,537	2,800	1,401	2,435	1,698	8.2	8.0	11.1	12.7	16.0
Food Sales	12	Q	Q	Q	Q	271	Q	Q	Q	Q	43.0	Q	Q	Q	Q
Food Service	7	12	Q	20	17	227	400	Q	440	366	29.3	30.6	Q	45.7	46.3
Health Care	10	18	11	20	14	475	784	564	844	496	20.6	23.3	19.2	23.7	27.6
Inpatient	6	12	8	17	9	262	450	323	592	278	23.7	27.7	23.3	28.2	34.0
Outpatient	4	6	3	3	Q	213	334	240	252	Q	16.7	17.4	13.7	13.4	Q
Lodging	8	21	12	18	10	768	1,314	1,132	1,275	608	10.1	15.9	Q	14.0	16.7
Retail (Other Than Mall)	10	10	10	16	15	710	865	695	1,454	592	14.2	11.0	14.8	11.3	25.9
Office	22	58	53	39	38	1,593	3,165	3,125	2,341	1,985	13.9	18.2	17.1	16.8	19.2
Public Assembly	8	8	6	18	9	876	818	806	906	529	9.1	9.5	Q	19.7	17.0
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	1	5	2	5	5	408	1,320	499	1,039	488	3.0	3.5	4.9	4.8	10.1
Service	10	11	Q	7	Q	911	1,179	639	946	Q	10.6	9.6	Q	7.6	Q
Warehouse and Storage	11	24	11	16	9	1,564	2,539	1,426	2,186	1,710	7.0	9.6	7.9	7.5	5.0
Other	Q	11	Q	Q	Q	Q	467	Q	Q	Q	Q	24.6	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed															
Before 1920	6	8	Q	2	Q	1,212	1,387	731	277	Q	5.2	5.6	Q	8.4	Q
1920 to 1945	8	23	16	9	Q	1,070	2,076	1,924	1,169	Q	7.8	11.0	8.4	7.5	Q
1946 to 1959	9	22	14	17	6	1,053	2,435	1,369	1,462	519	8.5	9.0	10.0	11.8	11.2
1960 to 1969	16	25	20	19	16	1,405	2,302	1,504	1,845	1,001	11.1	10.8	13.1	10.5	16.4
1970 to 1979	33	44	34	34	24	2,215	2,967	1,726	2,413	1,233	14.8	14.7	19.4	14.2	19.1
1980 to 1989	13	47	31	54	38	1,003	2,339	1,664	3,051	2,097	12.8	20.0	18.8	17.9	18.3
1990 to 1999	26	39	27	63	47	1,750	2,457	1,560	3,650	2,661	15.1	15.8	17.2	17.3	17.6
2000 to 2003	8	17	17	20	23	684	1,114	898	1,305	1,298	12.2	15.4	19.1	15.1	18.1
Census Region and Division															
Northeast	23	59	65	N	N	2,365	5,366	5,077	N	N	9.8	11.0	12.8	N	N
New England	7	25	N	N	N	Q	1,993	N	N	N	7.1	12.5	N	N	N
Middle Atlantic	Q	34	65	N	N	1,417	3,373	5,077	N	N	11.6	10.1	12.8	N	N
Midwest	62	134	19	N	N	5,488	9,655	1,558	N	N	11.4	13.9	12.4	N	N
East North Central	32	122	N	N	N	3,008	8,365	N	N	N	10.6	14.5	N	N	N
West North Central	31	Q	19	N	N	2,479	Q	1,558	N	N	12.4	9.6	12.4	N	N
South	N	N	72	156	146	N	N	4,047	9,985	8,734	N	N	17.8	15.7	16.7
South Atlantic	N	N	48	107	56	N	N	2,613	6,293	3,190	N	N	18.2	17.0	17.6
East South Central	N	N	Q	Q	Q	N	N	Q	Q	Q	N	N	19.0	12.6	19.6
West South Central	N	N	Q	27	82	N	N	Q	1,891	5,153	N	N	Q	14.3	16.0
West	34	31	Q	63	15	2,541	2,055	693	5,187	555	13.3	15.0	14.0	12.1	27.1
Mountain	27	16	N	N	13	2,081	1,075	N	N	476	13.1	14.8	N	N	26.8
Pacific	Q	Q	Q	63	Q	Q	Q	693	5,187	Q	14.7	15.1	14.0	12.1	Q

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

	Total Electricity Consumption (billion kWh)					Total Floorspace of Buildings Using Electricity (million square feet)					Electricity Energy Intensity (kWh/square foot)				
	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*	120	224	166	219	161	10,393	17,076	11,375	15,172	9,290	11.5	13.1	14.6	14.5	17.3
Number of Floors															
One	46	80	46	92	71	3,565	6,112	3,064	7,623	4,571	12.8	13.1	14.9	12.1	15.5
Two	33	50	36	50	34	3,122	4,845	2,592	3,244	2,177	10.5	10.3	13.8	15.3	15.5
Three	15	27	14	21	7	1,645	2,568	1,223	1,473	471	9.0	10.4	11.6	14.4	14.7
Four to Nine	20	44	40	43	27	1,731	2,505	2,744	1,982	1,103	11.8	17.5	14.6	21.5	24.8
Ten or More	6	23	31	14	22	330	1,047	1,752	850	968	18.1	22.4	17.6	16.1	22.6
Elevators and Escalators (more than one may apply)															
Any Elevators	48	107	96	94	71	4,029	6,378	5,728	4,954	3,406	11.8	16.8	16.8	19.0	20.9
Number of Elevators															
One	18	32	20	19	15	1,696	2,573	1,539	1,259	1,041	10.4	12.6	13.2	14.9	14.1
Two to Five	21	44	33	46	27	1,906	2,470	2,282	2,263	1,199	11.2	17.7	14.6	20.3	22.7
Six or More	9	31	42	29	29	427	1,336	1,908	1,431	1,166	20.5	23.5	22.2	20.5	25.0
Any Escalators	Q	Q	Q	Q	Q	Q	Q	788	Q	Q	Q	Q	23.3	Q	Q
Number of Workers (main shift)															
Fewer than 5	15	37	13	26	18	2,470	4,599	1,626	3,554	1,811	6.2	7.9	8.1	7.3	10.0
5 to 9	11	19	11	18	14	1,035	1,529	1,013	1,627	944	10.2	12.7	11.2	10.8	14.6
10 to 19	15	21	13	21	19	1,374	2,155	1,359	1,599	1,317	11.1	9.8	9.5	13.0	14.3
20 to 49	27	31	30	37	27	2,014	2,709	2,132	2,472	1,635	13.6	11.6	14.1	15.1	16.7
50 to 99	19	31	21	31	16	1,673	2,166	1,316	1,812	966	11.5	14.2	16.1	17.2	16.6
100 to 249	15	32	22	45	21	996	1,561	1,434	2,109	771	14.9	20.6	15.2	21.6	26.7
250 or More	17	53	56	41	46	832	2,357	2,495	1,999	1,845	20.2	22.3	22.5	20.6	25.2
Weekly Operating Hours															
Fewer than 40	3	7	3	7	6	877	2,116	592	1,539	776	3.2	3.1	5.5	4.7	8.4
40 to 48	12	34	17	30	24	1,505	3,142	1,983	3,014	1,926	8.0	10.7	8.4	9.9	12.6
49 to 60	26	48	28	39	34	3,094	4,105	2,377	3,589	2,537	8.4	11.8	11.8	10.8	13.4
61 to 84	20	32	29	39	26	1,578	2,887	1,897	2,544	1,405	12.9	11.0	15.2	15.2	18.7
85 to 167	27	36	29	36	26	1,517	1,665	1,386	1,334	1,040	17.7	21.6	21.0	26.7	24.7
Open Continuously	32	67	60	69	44	1,822	3,162	3,140	3,151	1,605	17.4	21.3	19.2	22.0	27.6
Ownership and Occupancy															
Nongovernment Owned	93	163	129	169	120	7,846	12,091	9,079	11,859	7,136	11.8	13.5	14.2	14.3	16.8
Owner Occupied	41	82	64	78	54	3,884	6,481	4,791	5,434	2,865	10.5	12.7	13.4	14.3	18.8
Nonowner Occupied	52	80	64	91	66	3,797	4,937	4,179	6,208	4,137	13.7	16.2	15.4	14.7	15.8
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	27	61	37	50	41	2,547	4,985	2,296	3,313	2,154	10.5	12.2	16.2	15.1	19.2
Federal	2	Q	Q	Q	Q	167	Q	Q	Q	Q	12.3	17.8	28.5	Q	Q
State	9	10	10	20	Q	696	709	692	1,247	Q	12.8	14.1	14.4	16.1	Q
Local	16	30	15	28	29	1,683	3,141	1,178	1,921	1,634	9.3	9.7	12.9	14.3	17.7
Vacancy Status															
Completely Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	11.5
Partially Vacant	24	45	37	27	35	2,275	3,247	2,576	2,104	1,997	10.6	14.0	14.4	12.8	17.4
Not At All Vacant	94	177	128	192	126	7,621	13,116	8,575	12,806	7,144	12.4	13.5	14.9	15.0	17.6
Number of Establishments															
One	83	169	111	161	103	6,955	12,392	7,648	11,322	6,061	12.0	13.6	14.5	14.2	16.9
2 to 5	26	32	28	38	22	2,257	2,774	1,887	2,422	1,582	11.7	11.6	14.9	15.9	14.1
6 to 10	5	9	5	Q	Q	401	540	341	Q	Q	12.7	16.5	14.7	Q	Q
11 to 20	Q	Q	Q	7	Q	Q	Q	Q	387	Q	Q	Q	Q	17.3	Q
More than 20	Q	Q	15	Q	19	Q	Q	812	Q	760	Q	Q	18.2	Q	24.4
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Total Electricity Consumption (billion kWh)					Total Floorspace of Buildings Using Electricity (million square feet)					Electricity Energy Intensity (kWh/square foot)				
	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*	120	224	166	219	161	10,393	17,076	11,375	15,172	9,290	11.5	13.1	14.6	14.5	17.3
Predominant Exterior Wall Material															
Brick, Stone or Stucco	49	127	75	116	75	4,456	9,758	6,013	8,064	4,003	11.0	13.0	12.5	14.4	18.6
Concrete (Block or Poured)	27	29	33	33	33	2,001	2,589	1,831	2,402	1,914	13.7	11.4	17.9	13.7	17.0
Concrete Panels	15	23	24	23	32	895	1,252	1,219	1,357	1,660	16.8	18.5	20.1	16.9	19.0
Siding or Shingles	10	11	4	14	Q	1,221	1,266	432	841	Q	8.5	8.8	9.2	16.9	Q
Metal Panels	15	20	17	28	7	1,552	1,444	1,233	2,169	978	9.9	13.5	13.7	13.0	7.2
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material															
Built-Up	42	72	55	73	64	3,271	5,072	3,848	5,178	3,412	12.9	14.1	14.3	14.0	18.7
Shingles (Not Wood)	16	31	26	35	14	1,735	3,254	1,478	2,461	943	9.5	9.5	17.4	14.1	14.3
Metal Surfacing	20	22	18	34	21	2,263	1,989	1,539	3,158	2,284	8.8	11.0	11.9	10.7	9.1
Synthetic or Rubber	34	79	56	49	42	2,528	5,225	2,838	2,556	1,564	13.5	15.2	19.9	19.0	27.1
Slate or Tile	2	4	5	13	7	145	478	447	952	416	13.8	8.5	10.3	13.1	17.3
Wooden Materials	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)															
Any Type of Renovation Since 1980	42	67	54	41	25	3,792	5,370	4,011	3,157	1,308	11.1	12.5	13.4	13.0	19.0
Addition or Annex	24	27	18	14	10	1,800	1,798	1,489	930	533	13.5	14.8	11.9	14.9	18.6
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	34	50	41	31	19	2,780	3,719	3,110	2,449	944	12.3	13.6	13.3	12.8	19.6
Wall or Roof Replacement	20	27	27	17	11	1,722	2,178	2,280	1,316	560	11.5	12.4	11.7	13.2	19.0
Interior Wall Re-Configuration	26	34	27	20	11	1,983	2,300	2,282	1,388	548	13.1	14.8	11.9	14.1	19.9
HVAC Equipment Upgrade	31	43	39	28	14	2,415	3,076	2,660	1,879	736	12.7	14.0	14.8	14.7	19.0
Lighting Upgrade	32	41	33	23	12	2,492	3,124	2,353	1,707	598	13.0	13.0	13.8	13.3	19.7
Window Replacement	15	26	20	8	Q	1,384	2,067	1,938	650	Q	10.8	12.4	10.5	12.2	Q
Plumbing System Upgrade	20	27	21	16	Q	1,616	1,939	1,948	1,204	Q	12.7	13.7	10.9	13.0	Q
Insulation Upgrade	10	14	14	8	Q	907	1,181	1,079	583	Q	10.9	12.1	13.0	13.8	Q
Other Renovation	Q	Q	Q	Q	N	Q	Q	Q	Q	N	Q	Q	Q	Q	N
No Renovations Since 1980	30	54	38	41	28	3,163	5,796	3,242	4,010	1,925	9.4	9.3	11.6	10.2	14.3
Building Newer than 1980	48	103	75	137	109	3,438	5,910	4,122	8,005	6,057	13.9	17.4	18.2	17.2	17.9
Energy Sources (more than one may apply)															
Electricity	120	224	166	219	161	10,393	17,076	11,375	15,172	9,290	11.5	13.1	14.6	14.5	17.3
Natural Gas	94	175	118	155	91	7,644	12,850	8,113	10,509	4,345	12.3	13.6	14.6	14.7	20.9
Fuel Oil	30	65	70	45	40	2,499	4,037	4,628	2,337	1,642	12.1	16.0	15.2	19.3	24.2
District Heat	11	32	23	23	Q	825	1,784	1,349	1,025	Q	13.3	17.7	17.0	22.0	Q
District Chilled Water	6	14	9	13	Q	350	698	514	659	633	17.3	20.2	17.8	19.2	22.7
Propane	18	28	13	26	14	1,598	2,036	1,102	1,403	928	11.2	13.8	11.8	18.5	15.4
Other	7	Q	Q	Q	Q	483	363	Q	Q	Q	13.6	12.5	Q	Q	23.3

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

	Total Electricity Consumption (billion kWh)					Total Floorspace of Buildings Using Electricity (million square feet)					Electricity Energy Intensity (kWh/square foot)				
	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*	120	224	166	219	161	10,393	17,076	11,375	15,172	9,290	11.5	13.1	14.6	14.5	17.3
Space-Heating Energy Sources															
Electricity	52	97	92	106	109	3,945	6,180	5,080	7,343	6,052	13.1	15.7	18.0	14.5	18.0
Electricity Main	23	47	40	66	91	1,375	2,603	2,210	4,580	5,228	16.4	18.0	17.9	14.3	17.5
Electricity Secondary	29	50	52	41	18	2,570	3,577	2,870	2,763	824	11.3	14.1	18.1	14.7	21.7
Other Excluding Electricity	67	124	74	104	38	6,153	10,525	6,154	6,622	1,938	10.9	11.8	12.0	15.7	19.5
Buildings without Heating	Q	Q	Q	9	14	Q	372	Q	1,207	1,300	Q	6.6	Q	7.5	10.9
Primary Space-Heating Energy Source															
Electricity	23	47	40	66	91	1,375	2,603	2,210	4,580	5,228	16.4	18.0	17.9	14.3	17.5
Natural Gas	76	132	90	116	45	6,513	10,640	5,617	7,965	2,228	11.6	12.4	16.0	14.6	20.3
Fuel Oil	6	7	8	Q	Q	962	1,211	Q	Q	Q	6.0	5.9	Q	Q	11.8
District Heat	10	31	21	20	Q	752	1,638	1,231	883	Q	13.0	18.7	17.3	22.9	Q
Propane	3	4	Q	Q	Q	Q	492	Q	423	Q	8.6	8.4	10.1	Q	Q
Other	Q	Q	Q	Q	N	Q	Q	Q	Q	N	Q	Q	Q	Q	N
Cooling Energy Sources															
Electricity	107	197	154	206	150	8,205	13,843	10,319	13,508	8,446	13.0	14.2	14.9	15.2	17.8
Other Excluding Electricity	Q	11	11	8	Q	Q	667	626	468	Q	Q	15.9	17.7	18.0	Q
Buildings without Cooling	7	Q	1	5	Q	1,843	2,567	430	1,195	Q	4.0	6.3	3.0	4.1	Q
Water-Heating Energy Sources															
Electricity	43	88	77	104	91	3,941	6,525	5,147	6,685	5,192	10.8	13.5	15.0	15.6	17.5
Other Excluding Electricity	74	118	87	104	61	5,533	8,621	5,637	6,507	2,675	13.4	13.7	15.5	16.0	22.8
Bldgs without Water Heating	3	Q	2	11	9	919	1,931	591	1,980	1,423	3.2	9.1	3.1	5.4	6.5
Cooking Energy Sources															
Electricity	32	70	45	52	50	2,123	4,210	2,235	2,472	2,120	14.9	16.7	19.9	21.0	23.8
Other Excluding Electricity	17	32	39	40	27	1,179	2,160	2,501	2,149	1,088	14.7	14.9	Q	18.4	24.4
Buildings without Cooking	71	121	82	128	84	7,091	10,707	6,639	10,550	6,082	10.0	11.3	12.4	12.1	13.8
Energy End Uses (more than one may apply)															
Buildings with Space Heating	119	221	165	210	147	10,098	16,705	11,234	13,965	7,990	11.8	13.2	14.7	15.1	18.4
Buildings with Cooling	112	208	165	214	160	8,550	14,509	10,946	13,977	8,943	13.1	14.3	15.1	15.3	17.9
Buildings with Water Heating	117	206	164	209	152	9,474	15,145	10,785	13,192	7,867	12.3	13.6	15.3	15.8	19.3
Buildings with Cooking	49	102	84	91	77	3,302	6,369	4,736	4,621	3,208	14.9	16.1	17.7	19.8	24.0
Buildings with Manufacturing	9	12	11	8	Q	855	729	772	608	Q	10.2	17.0	14.1	13.3	Q
Buildings with Electricity Generation	29	78	62	52	40	1,764	3,862	2,973	2,583	1,639	16.4	20.2	20.9	20.0	24.6
Percent of Floorspace Heated															
Not Heated	Q	Q	Q	9	14	Q	372	Q	1,207	1,300	Q	6.6	Q	7.5	10.9
1 to 50	5	10	12	18	10	1,111	1,094	1,325	1,845	1,455	4.4	8.9	9.4	9.6	6.9
51 to 99	17	21	24	33	22	1,377	1,735	1,713	2,349	932	12.1	12.0	13.8	14.1	23.1
100	97	191	129	159	115	7,609	13,876	8,196	9,772	5,602	12.8	13.7	15.8	16.3	20.6
Percent of Floorspace Cooled															
Not Cooled	7	Q	1	5	Q	1,843	2,567	430	1,195	Q	4.0	6.3	3.0	4.1	Q
1 to 50	29	35	24	32	11	3,133	4,642	3,422	3,480	1,906	9.2	7.5	7.0	9.2	5.7
51 to 99	33	58	55	42	29	2,327	3,568	3,297	2,803	1,215	14.1	16.4	16.8	15.2	24.2
100	51	114	86	140	120	3,089	6,300	4,227	7,693	5,822	16.4	18.2	20.3	18.2	20.6

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

	Total Electricity Consumption (billion kWh)					Total Floorspace of Buildings Using Electricity (million square feet)					Electricity Energy Intensity (kWh/square foot)				
	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*	120	224	166	219	161	10,393	17,076	11,375	15,172	9,290	11.5	13.1	14.6	14.5	17.3
Percent Lit When Open															
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	12	14	13	13	13	1,956	2,667	2,132	2,066	1,382	5.9	5.4	6.3	6.4	9.6
51 to 99	40	62	54	54	52	3,666	4,929	3,133	3,804	2,756	10.8	12.7	17.2	14.1	19.0
100	68	145	98	151	95	4,362	8,654	5,924	8,979	4,870	15.5	16.8	16.6	16.9	19.4
Building Never Open/ Electricity Not Used	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Percent Lit When Closed															
Zero	25	45	22	38	29	3,536	4,589	2,252	4,370	2,637	7.2	9.8	9.7	8.6	11.2
1 to 50	56	103	74	105	75	4,772	8,916	5,541	7,172	4,546	11.8	11.5	13.4	14.6	16.4
51 to 100	Q	Q	Q	7	13	Q	Q	Q	478	501	Q	Q	Q	15.5	25.4
Building Never Closed/ Electricity Not Used	32	67	60	69	44	1,822	3,162	3,140	3,151	1,605	17.4	21.3	19.2	22.0	27.6
Heating Equipment (more than one may apply)															
Heat Pumps	10	29	40	46	29	727	1,471	1,971	3,283	1,361	14.2	19.6	20.1	14.0	21.0
Packaged Heat Pumps	7	20	30	26	23	433	995	1,267	1,749	997	15.0	19.8	24.0	14.7	23.0
Split-System Heat Pumps	Q	Q	Q	14	6	Q	Q	686	1,140	419	Q	Q	20.6	12.3	15.5
Individual Room Heat Pumps	Q	10	10	14	Q	Q	497	537	1,021	Q	Q	20.0	18.1	13.3	Q
Furnaces	50	70	32	48	25	4,576	6,411	2,648	4,313	1,658	10.8	10.9	11.9	11.1	14.9
Individual Space Heaters	31	48	45	30	12	3,014	3,582	2,524	2,569	851	10.2	13.3	17.8	11.5	14.3
District Heat	10	31	21	20	Q	801	1,749	1,266	918	Q	12.9	17.9	16.9	22.3	Q
Boilers	47	86	69	63	31	4,060	6,835	4,693	3,334	1,500	11.6	12.5	14.8	18.7	20.6
Packaged Heating Units	32	68	57	86	67	2,126	3,708	3,204	5,619	3,365	15.3	18.2	17.7	15.3	20.0
Other	13	11	Q	5	13	816	659	Q	525	750	15.6	16.1	Q	10.5	17.3
Cooling Equipment (more than one may apply)															
Residential-Type Central Air Conditioners	22	37	27	28	19	1,971	3,078	2,207	2,056	1,723	11.2	12.2	12.2	13.7	10.8
Heat Pumps	10	29	42	49	30	739	1,542	1,998	3,398	1,365	14.0	18.7	20.9	14.5	22.2
Packaged Heat Pumps	7	19	33	24	22	453	1,033	1,337	1,679	924	14.6	18.9	24.6	14.6	23.8
Split-System Heat Pumps	Q	Q	Q	15	7	Q	Q	703	1,127	458	Q	Q	20.6	13.0	15.5
Individual Room Heat Pumps	Q	10	10	17	Q	Q	510	523	1,190	Q	Q	19.7	19.0	14.5	Q
Individual Air Conditioners	24	36	26	35	20	2,321	3,633	2,786	2,565	1,253	10.2	10.0	9.2	13.8	15.6
District Chilled Water	6	14	9	13	Q	350	698	514	659	633	17.3	20.2	17.8	19.2	22.7
Central Chillers	24	57	55	58	51	1,604	2,658	2,473	2,695	2,205	15.1	21.3	22.2	21.6	23.1
Packaged Air Conditioning Units	69	122	87	111	72	4,565	7,740	6,076	7,703	3,884	15.1	15.8	14.4	14.5	18.6
Swamp Coolers	7	5	Q	6	Q	515	468	Q	346	Q	14.2	11.1	Q	16.8	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)															
Heating	34	67	43	39	28	3,262	4,981	3,202	3,195	1,754	10.3	13.4	13.3	12.3	15.7
Cooling	41	85	69	49	43	3,555	5,895	4,827	4,112	2,606	11.5	14.4	14.3	11.8	16.4
Water Heating Equipment															
Centralized System	79	124	100	124	90	6,315	9,538	6,774	7,444	4,585	12.5	12.9	14.7	16.6	19.6
Distributed System	14	33	26	35	34	1,468	2,954	2,015	3,009	2,094	9.8	11.0	12.8	11.6	16.1
Combination of Centralized and Distributed System	23	50	39	50	28	1,691	2,654	1,996	2,739	1,187	13.8	18.9	19.5	18.3	23.8

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

	Total Electricity Consumption (billion kWh)					Total Floorspace of Buildings Using Electricity (million square feet)					Electricity Energy Intensity (kWh/square foot)				
	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*	120	224	166	219	161	10,393	17,076	11,375	15,172	9,290	11.5	13.1	14.6	14.5	17.3
Lighting Equipment Types (more than one may apply)															
Incandescent	80	150	123	135	101	7,016	10,308	8,192	7,939	5,073	11.4	14.5	15.0	17.0	19.9
Standard Fluorescent	117	218	163	212	155	9,783	16,090	10,871	14,316	8,627	11.9	13.5	15.0	14.8	18.0
Compact Fluorescent	66	114	109	122	77	4,667	6,835	6,292	6,439	3,339	14.2	16.7	17.3	19.0	23.1
High Intensity Discharge	45	95	75	66	49	3,955	6,149	4,385	3,863	2,292	11.5	15.4	17.0	17.1	21.4
Halogen	44	74	68	77	50	2,762	4,485	3,903	4,117	2,435	15.9	16.5	17.4	18.7	20.5
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	22.4	25.6	Q
Refrigeration Equipment (more than one may apply)[b]															
Any Refrigeration	109	202	156	198	148	8,673	14,438	9,893	12,329	7,640	12.6	14.0	15.7	16.1	19.3
Commercial Refrigeration	65	131	104	128	96	4,106	7,355	5,702	5,784	3,821	15.9	17.8	18.3	22.1	25.0
Walk-In Units	54	106	86	112	79	3,188	5,353	4,341	4,490	2,882	16.8	19.8	19.7	25.0	27.5
Cases or Cabinets	51	105	86	100	81	2,950	5,523	4,191	4,586	3,174	17.3	19.0	20.4	21.7	25.5
Residential-Type Units	75	135	99	115	94	6,713	10,957	7,367	8,479	5,369	11.1	12.3	13.5	13.6	17.6
Vending Machines	76	146	113	140	107	5,824	9,186	6,729	8,220	5,375	13.1	15.9	16.8	17.0	19.9
No Refrigeration	10	22	11	21	13	1,720	2,638	1,482	2,843	1,649	6.1	8.4	7.2	7.4	8.2
Office Equipment (more than one may apply)															
Computers	111	208	160	202	152	8,976	14,756	10,556	13,086	8,253	12.4	14.1	15.2	15.4	18.4
With Flat Screen Monitors	52	112	109	107	85	3,629	6,548	6,204	6,118	3,919	14.4	17.1	17.6	17.4	21.7
Dedicated Servers	76	148	129	143	100	5,673	9,426	7,813	8,157	5,269	13.4	15.7	16.5	17.5	19.1
Laser Printers	67	113	84	109	82	5,811	8,950	5,910	7,675	4,666	11.6	12.6	14.2	14.2	17.5
Inkjet Printers	74	120	108	131	99	5,523	7,781	6,220	7,556	5,130	13.5	15.5	17.4	17.4	19.4
FAX Machines	105	191	156	195	145	8,446	13,443	10,336	12,438	7,710	12.4	14.2	15.1	15.7	18.8
Photocopiers	91	169	136	170	125	7,181	12,244	9,222	10,780	6,828	12.7	13.8	14.8	15.7	18.3
Number of Computers															
None	9	16	6	18	9	1,417	2,320	819	2,086	1,037	6.1	7.0	7.8	8.5	9.0
1 to 4	24	41	20	38	31	2,242	3,537	1,801	3,206	1,608	10.6	11.5	10.9	12.0	19.0
5 to 9	14	21	12	16	17	1,392	1,946	1,206	1,572	1,063	9.9	10.8	10.3	10.0	16.3
10 to 19	12	21	14	21	15	1,057	1,724	1,032	1,568	1,228	11.7	12.1	14.0	13.3	12.1
20 to 49	18	25	24	36	17	1,239	2,045	1,441	1,729	960	14.2	12.1	16.8	20.7	18.0
50 to 99	9	15	12	24	15	740	1,124	1,078	1,547	887	12.4	13.7	Q	15.6	17.1
100 to 249	17	24	21	28	18	1,266	1,554	1,389	1,626	855	13.3	15.7	14.8	17.4	20.8
250 or More	17	60	57	38	39	1,040	2,825	2,610	1,837	1,652	16.7	21.3	21.7	20.9	23.5
Number of Dedicated Servers															
None	43	75	38	77	61	4,720	7,651	3,563	7,015	4,021	9.2	9.8	10.6	10.9	15.1
1 to 4	55	82	62	88	55	4,305	6,249	4,591	5,624	3,346	12.9	13.1	13.4	15.7	16.4
5 to 9	5	17	Q	19	Q	516	980	1,078	884	Q	9.0	16.9	21.7	21.5	Q
10 to 19	7	18	9	17	Q	412	965	455	724	472	17.3	18.5	19.0	23.2	27.5
20 to 49	Q	Q	11	11	Q	Q	Q	586	604	Q	Q	Q	18.4	18.9	Q
50 or More	Q	21	24	Q	Q	Q	804	1,102	Q	Q	Q	26.6	22.0	Q	Q
Number of Photocopiers															
None	28	54	30	50	36	3,212	4,832	2,153	4,392	2,462	8.8	11.3	13.9	11.3	14.6
One	30	44	24	46	29	2,653	4,546	2,337	3,806	2,133	11.4	9.6	10.3	12.2	13.8
2 to 4	30	48	35	54	40	2,655	3,694	2,833	3,554	2,345	11.3	13.1	12.4	15.1	17.0
5 to 9	11	23	17	27	17	863	1,386	1,219	1,326	721	13.0	16.7	Q	20.1	23.4
10 or More	20	54	60	43	39	1,010	2,619	2,833	2,093	1,629	19.5	20.6	21.3	20.7	24.0

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

	Total Electricity Consumption (billion kWh)					Total Floorspace of Buildings Using Electricity (million square feet)					Electricity Energy Intensity (kWh/square foot)				
	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*	120	224	166	219	161	10,393	17,076	11,375	15,172	9,290	11.5	13.1	14.6	14.5	17.3
Energy-Related Space Functions (more than one may apply)															
Commercial Food Preparation	49	102	84	91	77	3,302	6,358	4,736	4,620	3,208	14.9	16.1	17.7	19.8	24.0
Activities with Large Amounts of Hot Water	48	88	68	90	48	3,451	5,260	4,091	4,479	2,200	13.9	16.7	16.7	20.0	21.9
Separate Computer Area	56	113	102	110	74	3,713	7,143	5,988	6,266	3,763	15.1	15.8	17.0	17.6	19.6
HVAC Conservation Features (more than one may apply)															
Variable Air-Volume System	44	91	81	84	71	2,985	4,852	4,086	4,201	3,473	14.9	18.7	19.8	20.0	20.5
Economizer Cycle	59	112	96	89	57	3,804	5,533	4,736	4,630	2,406	15.5	20.2	20.3	19.2	23.5
HVAC Maintenance	101	204	149	190	148	8,035	14,309	9,595	11,542	7,670	12.6	14.2	15.6	16.5	19.3
Energy Management and Control System (EMCS)	34	64	67	59	55	2,438	3,834	3,284	3,546	2,528	14.0	16.7	20.4	16.8	21.8
Window and Interior Lighting Features (more than one may apply)															
Multipaned Windows	100	173	115	128	77	8,065	11,659	7,843	7,244	3,916	12.4	14.8	14.7	17.7	19.6
Tinted Window Glass	52	124	98	121	99	3,628	7,501	5,333	7,836	5,328	14.2	16.5	18.3	15.4	18.6
Reflective Window Glass	17	38	36	32	30	1,259	2,139	1,733	2,051	1,347	13.7	17.5	20.5	15.8	22.6
External Overhangs or Awnings	37	73	47	73	52	2,639	4,497	2,985	4,416	2,637	13.9	16.2	15.8	16.5	19.8
Skylights or Atriums	29	52	36	41	30	2,163	3,557	2,573	2,575	1,640	13.6	14.7	14.2	15.9	18.3
Daylighting Sensors	9	18	10	13	11	574	837	413	618	426	15.5	21.8	24.2	20.6	24.9
Specular Reflectors	57	125	88	101	65	4,446	7,579	5,238	5,892	2,961	12.8	16.4	16.9	17.1	22.1
Electronic Ballasts	104	177	143	176	133	8,390	11,771	8,922	10,876	6,923	12.3	15.0	16.0	16.2	19.3
Energy Management and Control System (EMCS) For Lighting	12	22	21	15	21	756	1,249	881	899	997	16.0	17.4	23.5	17.0	21.5
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[b]															
Heating	75	137	124	137	93	6,995	11,636	8,469	10,227	5,380	10.7	11.7	14.6	13.4	17.4
Cooling	74	136	125	145	116	6,309	10,730	8,843	10,627	6,681	11.8	12.7	14.1	13.6	17.3
Lighting	83	153	99	143	110	7,959	12,889	7,802	11,312	7,025	10.4	11.9	12.7	12.7	15.6
Office Equipment	32	56	33	46	43	3,401	5,473	3,238	4,319	2,966	9.5	10.3	10.3	10.8	14.4
Annual Consumption (kilowatthours)															
10,000 or Less	1	1	1	1	Q	636	1,052	306	622	Q	1.3	1.1	1.7	1.7	Q
10,001 to 50,000	7	12	7	12	7	1,589	2,594	1,270	2,624	1,150	4.6	4.5	5.6	4.6	5.8
50,001 to 100,000	10	11	7	16	8	1,081	1,506	1,340	1,672	862	9.1	7.3	5.6	9.4	8.8
100,001 to 500,000	38	54	26	52	39	3,073	4,313	2,698	3,648	2,380	12.5	12.5	9.7	14.3	16.3
500,001 to 1,000,000	10	21	20	23	23	1,022	1,715	1,261	1,456	1,282	10.2	12.0	15.8	15.9	17.8
1,000,001 to 5,000,000	36	69	50	67	46	2,225	3,545	2,269	3,319	1,851	16.3	19.5	22.2	20.3	24.7
Over 5,000,000	17	56	55	48	39	768	2,351	2,231	1,831	1,518	21.7	23.9	24.5	26.1	25.8

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

	Total Electricity Consumption (billion kWh)					Total Floorspace of Buildings Using Electricity (million square feet)					Electricity Energy Intensity (kWh/square foot)				
	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*	120	224	166	219	161	10,393	17,076	11,375	15,172	9,290	11.5	13.1	14.6	14.5	17.3
Provider of Purchased Electricity (more than one may apply)															
Local Utility	109	198	140	210	134	9,635	15,515	10,370	14,626	7,707	11.3	12.8	13.5	14.4	17.4
Some Other Provider	Q	25	27	Q	23	784	1,500	987	Q	1,341	14.2	16.5	26.9	Q	17.1

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 9.7 percent of total electricity consumption.

[a] Climate zone (30-year average) definitions: Zone 1 = Under 2,000 CDD and more than 7,000 HDD; Zone 2 = Under 2,000 CDD and 5,500-7,000 HDD; Zone 3 = Under 2,000 CDD and 4,000-5,499 HDD; Zone 4 = Under 2,000 CDD and fewer than 4,000 HDD; Zone 5 = 2,000 CDD or more and fewer than 4,000 HDD. (See "Glossary" for definitions of CDD and HDD.)

[b] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use electricity.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
Principal Building Activity									
Education	9	55	45	806	5,378	3,687	11.1	10.2	12.2
Food Sales	36	24	Q	747	467	Q	48.8	51.1	Q
Food Service	47	16	Q	986	664	Q	47.8	24.5	Q
Health Care	6	17	50	445	835	1,883	13.1	20.5	26.3
Inpatient	N	Q	47	N	Q	1,723	N	Q	27.0
Outpatient	6	11	Q	445	652	Q	13.1	17.4	Q
Lodging	4	31	34	260	2,274	2,563	14.0	13.5	13.5
Retail (Other Than Mall)	17	28	18	1,363	2,133	821	12.2	12.9	21.5
Office	30	75	105	2,320	4,602	5,286	12.9	16.4	19.9
Public Assembly	10	21	19	850	1,851	1,233	11.6	11.2	Q
Public Order and Safety	2	6	Q	231	390	Q	10.4	14.9	Q
Religious Worship	5	11	Q	1,160	2,391	Q	4.5	4.7	Q
Service	14	19	Q	1,687	1,862	Q	8.2	10.2	Q
Warehouse and Storage	7	25	40	1,256	4,482	3,687	5.8	5.5	10.8
Other	2	11	25	206	601	922	9.6	19.1	27.6
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	6	14	6	953	1,972	805	6.7	7.3	7.0
1920 to 1945	16	17	28	1,491	2,336	2,768	10.7	7.4	10.0
1946 to 1959	16	26	25	1,465	3,237	2,136	10.8	8.1	11.9
1960 to 1969	19	43	33	1,545	4,143	2,369	12.5	10.4	14.1
1970 to 1979	34	64	70	2,208	4,607	3,740	15.2	13.9	18.7
1980 to 1989	34	61	88	1,769	4,169	4,215	19.4	14.7	20.9
1990 to 1999	50	75	77	2,252	5,798	4,029	22.1	13.0	19.1
2000 to 2003	14	39	33	860	2,524	1,915	16.8	15.4	17.0
Census Region and Division									
Northeast	23	53	72	2,080	5,275	5,454	11.1	10.0	13.1
New England	7	14	Q	696	1,416	829	10.2	9.7	13.1
Middle Atlantic	16	39	61	1,384	3,859	4,624	11.6	10.1	13.1
Midwest	46	89	81	3,176	7,841	5,684	14.4	11.4	14.3
East North Central	28	57	68	1,689	5,086	4,598	16.8	11.2	14.8
West North Central	17	32	13	1,487	2,755	1,086	11.7	11.6	12.0
South	83	141	150	4,778	10,712	7,276	17.5	13.1	20.7
South Atlantic	45	76	90	2,464	5,350	4,282	18.1	14.1	21.0
East South Central	12	26	13	832	1,884	505	14.0	13.6	25.1
West South Central	27	39	48	1,482	3,478	2,489	18.4	11.3	19.2
West	37	58	57	2,509	4,958	3,564	14.9	11.7	15.9
Mountain	12	21	23	841	1,716	1,076	13.9	12.4	21.4
Pacific	26	37	34	1,668	3,242	2,488	15.4	11.4	13.5
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	30	51	38	2,327	4,929	3,137	12.9	10.4	12.3
5,500-7,000 HDD	43	85	96	3,142	7,887	6,047	13.7	10.7	15.9
4,000-5,499 HDD	26	61	79	1,868	4,498	5,009	13.8	13.7	15.8
Fewer than 4,000 HDD	55	78	86	3,496	6,886	4,790	15.8	11.4	17.9
2,000 CDD or More and --									
Fewer than 4,000 HDD	36	65	60	1,709	4,586	2,994	20.9	14.2	20.2

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
Number of Floors									
One	142	139	53	8,615	12,365	3,955	16.5	11.3	13.4
Two	38	115	50	2,932	9,121	3,925	12.9	12.6	12.6
Three	9	44	31	841	4,112	2,428	10.2	10.7	12.8
Four to Nine	Q	41	132	Q	3,069	6,841	Q	13.5	19.2
Ten or More	N	Q	94	N	Q	4,828	N	Q	19.5
Elevators and Escalators (more than one may apply)									
Any Elevators	4	116	296	286	7,913	16,296	14.6	14.7	18.2
Number of Elevators									
One	4	67	32	286	5,077	2,745	14.6	13.3	11.7
Two to Five	N	48	123	N	2,791	7,329	N	17.3	16.8
Six or More	N	Q	140	N	Q	6,222	N	Q	22.6
Any Escalators	Q	Q	56	Q	Q	2,257	Q	Q	24.6
Number of Workers (main shift)									
Fewer than 5	75	22	Q	7,169	5,485	Q	10.5	4.0	Q
5 to 9	45	25	Q	2,618	3,202	Q	17.3	8.0	Q
10 to 19	41	44	Q	1,798	4,940	Q	22.9	8.8	Q
20 to 49	22	110	22	844	7,872	2,247	25.6	14.0	9.6
50 to 99	Q	74	42	Q	4,492	3,368	Q	16.4	12.6
100 to 249	Q	55	76	Q	2,377	4,455	Q	23.1	17.0
250 or More	N	11	202	N	419	9,109	N	25.7	22.2
Weekly Operating Hours									
Fewer than 40	13	10	Q	2,586	2,415	Q	5.2	4.1	Q
40 to 48	32	59	25	3,364	6,136	2,071	9.5	9.7	12.2
49 to 60	34	75	66	2,888	8,031	4,783	11.9	9.4	13.7
61 to 84	33	65	47	1,555	5,209	3,547	21.5	12.5	13.3
85 to 167	48	57	48	1,121	2,889	2,932	42.7	19.8	16.4
Open Continuously	29	74	171	1,029	4,107	7,745	28.1	17.9	22.0
Ownership and Occupancy									
Nongovernment Owned	172	253	248	11,073	21,731	15,208	15.6	11.7	16.3
Owner Occupied	73	114	132	5,456	10,662	7,336	13.3	10.7	18.0
Nonowner Occupied	99	139	115	5,424	10,495	7,339	18.3	13.2	15.7
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	17	87	111	1,470	7,055	6,770	11.8	12.4	16.4
Federal	Q	6	32	Q	402	1,466	Q	14.1	21.7
State	3	23	34	302	1,733	1,751	10.4	13.1	19.3
Local	13	59	46	1,085	4,920	3,553	12.2	12.0	12.8
Vacancy Status									
Completely Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	13	49	106	1,275	4,504	6,420	10.6	10.8	16.6
Not At All Vacant	176	290	252	11,042	23,426	14,794	15.9	12.4	17.0

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
Number of Establishments									
One	166	252	208	10,331	20,970	13,077	16.0	12.0	15.9
2 to 5	23	58	67	1,908	5,307	3,705	11.8	10.9	18.1
6 to 10	Q	16	17	Q	1,011	872	Q	15.9	19.4
11 to 20	Q	10	19	Q	624	1,325	Q	15.4	14.4
More than 20	Q	Q	47	Q	Q	2,305	Q	Q	20.4
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Exterior Wall Material									
Brick, Stone or Stucco	101	180	161	5,658	15,715	10,922	17.8	11.5	14.7
Concrete (Block or Poured)	33	70	52	2,003	5,347	3,388	16.7	13.1	15.3
Concrete Panels	Q	30	82	Q	1,843	4,270	Q	16.2	19.2
Siding or Shingles	28	12	Q	2,129	1,555	Q	13.1	7.4	Q
Metal Panels	19	41	27	2,242	3,737	1,398	8.3	11.0	19.5
Window Glass	Q	Q	15	Q	Q	762	Q	Q	20.0
Other	Q	Q	13	Q	Q	770	Q	Q	17.3
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material									
Built-Up	54	117	134	2,678	9,269	8,834	20.3	12.6	15.2
Shingles (Not Wood)	50	53	18	3,736	4,849	1,286	13.3	11.0	14.2
Metal Surfacing	31	60	24	3,446	6,247	1,541	9.0	9.6	15.6
Synthetic or Rubber	33	84	144	1,342	5,667	7,701	24.6	14.7	18.7
Slate or Tile	13	13	5	751	1,296	391	17.0	10.0	12.0
Wooden Materials	4	Q	Q	330	Q	Q	13.3	Q	Q
Concrete	Q	6	Q	Q	455	Q	Q	14.2	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	36	95	98	2,893	7,830	6,916	12.3	12.1	14.2
Addition or Annex	9	37	46	668	2,805	3,079	14.2	13.2	14.9
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	27	73	76	2,091	5,806	5,105	12.7	12.6	15.0
Wall or Roof Replacement	13	33	55	1,162	2,989	3,904	11.4	11.2	14.1
Interior Wall Re-Configuration	15	42	61	1,164	3,222	4,115	12.7	12.9	14.9
HVAC Equipment Upgrade	15	60	80	1,173	4,662	4,931	12.7	12.8	16.2
Lighting Upgrade	13	59	67	1,202	4,417	4,654	11.0	13.4	14.5
Window Replacement	9	32	32	871	2,772	2,633	10.4	11.7	12.1
Plumbing System Upgrade	10	30	51	888	2,735	3,519	11.5	11.1	14.6
Insulation Upgrade	6	21	25	638	1,655	1,719	8.8	12.4	14.5
Other Renovation	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	56	71	63	4,769	8,465	4,903	11.7	8.3	12.9
Building Newer than 1980	99	175	198	4,881	12,491	10,159	20.2	14.0	19.5

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
Energy Sources (more than one may apply)									
Electricity	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
Natural Gas	112	243	279	6,775	19,761	16,926	16.5	12.3	16.5
Fuel Oil	12	52	186	1,302	3,532	10,308	9.4	14.8	18.0
District Heat	Q	20	77	Q	1,232	4,111	Q	16.4	18.8
District Chilled Water	Q	13	43	Q	694	2,111	Q	19.0	20.2
Propane	21	30	48	1,522	2,577	2,968	14.1	11.7	16.0
Other	3	10	9	409	583	388	8.0	17.7	23.4
Space-Heating Energy Sources									
Electricity	89	181	185	4,927	13,154	10,519	18.1	13.8	17.6
Electricity Main	69	118	79	3,465	7,876	4,656	19.8	15.0	17.0
Electricity Secondary	20	63	106	1,462	5,279	5,863	14.0	12.0	18.1
Other Excluding Electricity	88	152	166	6,496	14,011	10,885	13.6	10.9	15.3
Buildings without Heating	12	7	Q	1,120	1,621	Q	10.9	4.3	Q
Primary Space-Heating Energy Source									
Electricity	69	118	79	3,465	7,876	4,656	19.8	15.0	17.0
Natural Gas	86	182	191	5,739	15,927	11,297	14.9	11.4	16.9
Fuel Oil	8	6	9	913	1,268	Q	8.3	4.9	Q
District Heat	Q	18	72	Q	1,112	3,695	Q	16.4	19.4
Propane	13	6	Q	999	858	Q	13.2	7.5	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling Energy Sources									
Electricity	178	324	312	10,360	25,385	18,575	17.2	12.7	16.8
Other Excluding Electricity	Q	9	36	Q	644	1,920	Q	14.5	18.7
Buildings without Cooling	11	8	Q	2,142	2,757	Q	5.2	2.8	7.7
Water-Heating Energy Sources									
Electricity	88	163	152	5,669	12,392	9,430	15.5	13.1	16.1
Other Excluding Electricity	83	167	196	4,423	13,317	11,233	18.7	12.5	17.4
Bldgs without Water Heating	19	11	Q	2,451	3,078	Q	7.8	3.6	Q
Cooking Energy Sources									
Electricity	40	74	135	1,114	4,754	7,292	35.8	15.5	18.5
Other Excluding Electricity	33	46	76	1,019	3,286	4,771	32.4	13.9	16.0
Buildings without Cooking	117	221	148	10,410	20,746	9,914	11.2	10.7	14.9
Energy End Uses (more than one may apply)									
Buildings with Space Heating	178	334	351	11,423	27,165	21,403	15.5	12.3	16.4
Buildings with Cooling	179	333	348	10,401	26,030	20,495	17.2	12.8	17.0
Buildings with Water Heating	171	330	347	10,092	25,708	20,663	16.9	12.8	16.8
Buildings with Cooking	73	119	211	2,133	8,041	12,063	34.2	14.8	17.5
Buildings with Manufacturing	3	18	21	330	1,326	1,482	9.4	13.2	14.0
Buildings with Electricity Generation	Q	65	192	Q	3,074	9,547	Q	21.3	20.1

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
Percent of Floorspace Heated									
Not Heated	12	7	Q	1,120	1,621	Q	10.9	4.3	Q
1 to 50	15	27	13	1,612	3,499	1,718	9.2	7.8	7.5
51 to 99	23	39	53	1,455	3,286	3,365	16.1	11.9	15.8
100	139	267	285	8,355	20,380	16,320	16.7	13.1	17.5
Percent of Floorspace Cooled									
Not Cooled	11	8	Q	2,142	2,757	Q	5.2	2.8	7.7
1 to 50	28	64	38	2,894	8,811	4,877	9.6	7.2	7.9
51 to 99	37	79	102	1,775	5,265	6,170	21.0	15.0	16.5
100	113	190	208	5,731	11,953	9,447	19.8	15.9	22.0
Percent Lit When Open									
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	20	31	15	2,495	5,662	2,046	8.1	5.4	7.4
51 to 99	44	105	113	3,154	8,556	6,579	14.1	12.3	17.1
100	123	203	231	6,390	13,779	12,620	19.3	14.8	18.3
Building Never Open/ Electricity Not Used	Q	Q	Q	Q	Q	Q	Q	Q	Q
Percent Lit When Closed									
Zero	57	66	36	5,839	8,570	2,976	9.8	7.7	12.0
1 to 50	95	181	137	5,314	15,218	10,415	17.8	11.9	13.1
51 to 100	9	20	16	361	891	841	23.9	22.8	19.6
Building Never Closed/ Electricity Not Used	29	74	171	1,029	4,107	7,745	28.1	17.9	22.0
Heating Equipment (more than one may apply)									
Heat Pumps	21	65	68	1,147	4,074	3,593	18.2	15.9	18.8
Packaged Heat Pumps	15	41	50	686	2,402	2,354	21.2	17.0	21.2
Split-System Heat Pumps	6	18	Q	420	1,293	868	13.4	13.7	19.0
Individual Room Heat Pumps	Q	18	24	Q	1,113	1,509	Q	16.5	15.9
Furnaces	75	95	54	5,783	9,501	4,320	12.9	10.0	12.4
Individual Space Heaters	25	68	72	2,329	5,696	4,515	10.7	11.9	16.0
District Heat	Q	19	73	Q	1,162	3,903	Q	16.1	18.8
Boilers	16	100	180	1,234	8,490	10,699	12.7	11.8	16.8
Packaged Heating Units	66	130	114	2,758	8,541	6,722	24.1	15.2	17.0
Other	7	20	22	529	1,325	1,388	12.7	15.3	16.0
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	41	56	36	3,091	5,245	2,699	13.4	10.7	13.3
Heat Pumps	22	65	73	1,239	4,036	3,766	18.0	16.2	19.3
Packaged Heat Pumps	15	42	49	761	2,370	2,295	19.8	17.6	21.2
Split-System Heat Pumps	7	18	Q	436	1,289	880	15.0	13.7	18.9
Individual Room Heat Pumps	Q	18	31	Q	1,096	1,774	Q	16.5	17.5
Individual Air Conditioners	20	59	61	1,984	5,999	4,576	10.2	9.9	13.3
District Chilled Water	Q	13	43	Q	694	2,111	Q	19.0	20.2
Central Chillers	Q	54	189	Q	2,907	8,666	Q	18.7	21.8
Packaged Air Conditioning Units	102	196	164	4,698	14,256	11,016	21.8	13.7	14.9
Swamp Coolers	6	10	Q	385	776	Q	16.4	12.7	Q
Other	Q	Q	13	Q	Q	700	Q	Q	18.1

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	49	97	63	3,374	8,613	4,406	14.6	11.3	14.4
Cooling	61	117	108	3,903	10,012	7,080	15.7	11.7	15.2
Water Heating Equipment									
Centralized System	136	208	171	7,591	16,799	10,266	17.9	12.4	16.7
Distributed System	31	63	48	2,263	5,582	3,695	13.6	11.3	12.9
Combination of Centralized and Distributed System	Q	58	128	Q	3,327	6,702	Q	17.6	19.1
Lighting Equipment Types (more than one may apply)									
Incandescent	93	218	277	5,979	16,896	15,653	15.6	12.9	17.7
Standard Fluorescent	181	330	354	11,305	27,126	21,256	16.0	12.2	16.6
Compact Fluorescent	47	169	272	2,232	10,936	14,403	21.2	15.4	18.9
High Intensity Discharge	17	105	208	998	7,559	12,086	16.8	13.9	17.2
Halogen	30	102	181	1,385	6,585	9,734	21.9	15.4	18.6
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	164	308	340	9,071	23,752	20,150	18.1	13.0	16.9
Commercial Refrigeration	100	160	263	2,716	9,350	14,702	36.9	17.1	17.9
Walk-In Units	86	118	233	1,824	5,937	12,493	47.1	19.8	18.6
Cases or Cabinets	85	127	210	2,216	7,057	11,151	38.5	18.0	18.8
Residential-Type Units	80	207	231	6,783	17,774	14,328	11.8	11.7	16.1
Vending Machines	41	230	311	2,237	15,323	17,775	18.3	15.0	17.5
No Refrigeration	26	33	Q	3,472	5,034	1,827	7.4	6.5	10.6
Office Equipment (more than one may apply)									
Computers	150	330	351	8,727	26,064	20,837	17.2	12.7	16.8
With Flat Screen Monitors	39	160	266	2,173	10,178	14,065	18.1	15.7	18.9
Dedicated Servers	56	229	312	2,790	15,713	17,835	20.0	14.5	17.5
Laser Printers	91	188	175	5,598	16,584	10,830	16.3	11.3	16.2
Inkjet Printers	70	207	257	3,821	14,731	13,658	18.2	14.1	18.8
FAX Machines	130	314	347	7,520	24,274	20,580	17.3	13.0	16.9
Photocopiers	71	286	335	5,167	21,434	19,657	13.8	13.4	17.0
Number of Computers									
None	39	10	Q	3,816	2,723	Q	10.3	3.8	Q
1 to 4	89	52	Q	5,366	5,844	1,185	16.7	8.9	Q
5 to 9	30	42	Q	1,725	4,428	Q	17.2	9.5	Q
10 to 19	17	52	14	1,031	4,055	1,524	16.2	12.9	9.4
20 to 49	13	72	34	569	4,639	2,207	23.1	15.6	15.6
50 to 99	Q	47	28	Q	3,297	2,045	Q	14.3	13.6
100 to 249	Q	51	56	Q	3,165	3,522	Q	16.0	16.0
250 or More	N	14	198	N	636	9,327	N	21.7	21.2

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
Number of Dedicated Servers									
None	134	112	48	9,753	13,073	4,142	13.7	8.6	11.5
1 to 4	51	172	119	2,667	13,017	8,432	19.1	13.2	14.1
5 to 9	Q	30	40	Q	1,491	2,305	Q	20.1	17.1
10 to 19	Q	14	48	Q	603	2,370	Q	23.8	20.2
20 to 49	N	9	44	N	482	2,101	N	19.5	21.0
50 or More	N	Q	62	N	Q	2,627	N	Q	23.5
Number of Photocopiers									
None	118	54	25	7,376	7,353	2,321	16.1	7.4	10.8
One	48	99	27	3,817	8,993	2,665	12.5	11.0	10.1
2 to 4	19	122	66	1,257	8,908	4,917	15.0	13.7	13.5
5 to 9	Q	38	53	Q	2,032	3,390	Q	18.5	15.5
10 or More	N	28	189	N	1,500	8,685	N	18.3	21.7
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	73	119	211	2,131	8,029	12,063	34.2	14.8	17.5
Activities with Large Amounts of Hot Water	38	113	191	1,477	7,554	10,451	25.7	14.9	18.3
Separate Computer Area	16	157	282	969	10,433	15,471	16.3	15.0	18.2
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	26	111	235	1,048	6,736	11,813	24.5	16.5	19.9
Economizer Cycle	29	133	251	1,102	7,217	12,789	26.5	18.4	19.6
HVAC Maintenance	133	304	356	7,121	23,011	21,019	18.6	13.2	16.9
Energy Management and Control System (EMCS)	9	80	191	364	4,973	10,294	24.8	16.0	18.6
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	104	228	260	6,162	17,228	15,337	16.9	13.3	17.0
Tinted Window Glass	68	163	262	3,766	11,952	13,908	18.1	13.6	18.9
Reflective Window Glass	12	48	94	694	2,919	4,915	16.8	16.3	19.1
External Overhangs or Awnings	70	112	100	3,596	7,868	5,709	19.4	14.2	17.5
Skylights or Atriums	10	56	123	733	4,605	7,170	13.8	12.1	17.2
Daylighting Sensors	Q	12	42	Q	789	1,864	Q	15.7	22.5
Specular Reflectors	38	145	253	2,184	10,058	13,875	17.3	14.4	18.2
Electronic Ballasts	124	276	332	7,346	20,431	19,105	16.8	13.5	17.4
Energy Management and Control System (EMCS) For Lighting	Q	21	67	Q	1,172	3,537	Q	18.1	19.0
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	112	221	233	8,146	19,476	15,084	13.7	11.3	15.5
Cooling	117	232	247	7,782	19,738	15,670	15.0	11.7	15.8
Lighting	154	253	180	10,689	23,175	13,123	14.4	10.9	13.7
Office Equipment	57	97	57	4,483	10,317	4,597	12.8	9.4	12.4

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
Annual Consumption (kilowatthours)									
10,000 or Less	4	Q	Q	1,954	Q	Q	1.8	Q	Q
10,001 to 50,000	39	6	Q	5,565	3,534	Q	7.0	1.8	Q
50,001 to 100,000	38	14	Q	2,527	3,373	Q	14.9	4.1	Q
100,001 to 500,000	94	112	3	2,345	11,928	1,838	40.2	9.4	1.6
500,001 to 1,000,000	Q	77	8	Q	4,927	1,684	Q	15.6	4.6
1,000,001 to 5,000,000	Q	129	137	Q	4,144	9,037	Q	31.1	15.1
Over 5,000,000	N	Q	212	N	Q	8,677	N	Q	24.4
Provider of Purchased Electricity (more than one may apply)									
Local Utility	182	314	296	12,150	27,035	18,668	15.0	11.6	15.8
Some Other Provider	7	23	60	351	1,399	3,196	20.1	16.4	18.9

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 9.7 percent of total electricity consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use electricity.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
Building Floorspace (Square Feet)									
1,001 to 5,000	23	52	37	2,049	2,668	1,628	11.3	19.6	23.0
5,001 to 10,000	15	35	27	1,859	2,854	1,484	8.1	12.2	18.1
10,001 to 25,000	27	55	37	3,141	4,907	3,322	8.5	11.3	11.2
25,001 to 50,000	16	56	31	2,344	3,994	2,047	6.7	13.9	15.3
50,001 to 100,000	15	58	46	2,060	4,018	2,953	7.5	14.3	15.5
100,001 to 200,000	19	69	53	2,113	3,911	2,993	9.2	17.7	17.7
200,001 to 500,000	21	57	27	2,030	3,427	1,593	10.5	16.6	17.2
Over 500,000	18	65	29	1,566	2,986	1,357	11.4	21.9	21.4
Principal Building Activity									
Education	22	53	34	3,191	4,359	2,321	6.8	12.3	14.4
Food Sales	Q	29	Q	Q	585	Q	Q	50.0	Q
Food Service	10	22	31	613	524	517	16.7	42.9	59.4
Health Care	14	43	16	730	1,671	762	19.2	25.5	21.0
Inpatient	11	35	7	456	1,218	231	23.7	28.4	30.2
Outpatient	3	8	9	273	453	531	11.7	17.9	17.0
Lodging	10	39	20	1,236	2,564	1,296	Q	15.3	15.1
Retail (Other Than Mall)	8	24	29	1,026	1,804	1,487	8.2	13.3	19.7
Office	34	131	46	2,852	6,792	2,563	11.9	19.2	17.9
Public Assembly	7	20	22	1,455	1,445	1,035	4.6	13.9	21.6
Public Order and Safety	Q	7	Q	Q	385	Q	Q	18.5	Q
Religious Worship	4	6	7	1,522	1,328	904	2.9	4.8	8.1
Service	7	26	11	1,045	1,925	1,012	6.3	13.4	11.4
Warehouse and Storage	Q	25	30	1,941	3,851	3,633	8.3	6.5	8.4
Other	Q	19	14	Q	684	673	Q	28.0	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Census Region and Division									
Northeast	45	72	31	5,944	4,834	2,031	7.5	15.0	15.0
New England	8	16	Q	1,404	1,058	479	5.4	15.2	16.7
Middle Atlantic	37	56	22	4,540	3,776	1,552	8.2	14.9	14.5
Midwest	48	104	63	5,494	7,376	3,832	8.8	14.1	16.6
East North Central	37	73	43	3,932	5,036	2,405	9.4	14.6	17.9
West North Central	11	31	20	1,562	2,339	1,427	7.2	13.2	14.2
South	40	186	149	3,506	10,654	8,606	11.3	17.5	17.3
South Atlantic	24	94	92	2,043	5,175	4,878	11.6	18.3	18.9
East South Central	6	28	16	535	1,656	1,029	11.8	16.6	15.7
West South Central	10	64	41	927	3,822	2,700	10.4	16.7	15.1
West	22	85	45	2,220	5,902	2,909	10.1	14.4	15.5
Mountain	6	36	14	524	2,204	904	10.6	16.4	15.7
Pacific	17	49	31	1,695	3,697	2,005	9.9	13.1	15.4
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	24	61	35	3,335	4,624	2,435	7.1	13.2	14.3
5,500-7,000 HDD	53	115	56	5,898	7,607	3,571	8.9	15.2	15.7
4,000-5,499 HDD	38	84	44	4,024	4,894	2,458	9.4	17.3	17.9
Fewer than 4,000 HDD	28	108	83	2,908	7,309	4,954	9.8	14.8	16.7
2,000 CDD or More and --									
Fewer than 4,000 HDD	12	78	70	999	4,332	3,959	12.4	18.1	17.7

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
Number of Floors									
One	49	148	137	4,653	11,401	8,881	10.5	13.0	15.5
Two	34	99	69	4,361	7,474	4,143	7.8	13.3	16.6
Three	25	37	23	3,351	2,465	1,565	7.3	14.9	14.4
Four to Nine	26	101	47	3,384	4,507	2,175	7.8	22.5	21.4
Ten or More	21	62	13	1,415	2,919	613	14.7	21.3	21.1
Elevators and Escalators (more than one may apply)									
Any Elevators	63	234	120	6,479	11,645	6,371	9.8	20.1	18.8
Number of Elevators									
One	17	49	37	2,292	3,249	2,567	7.5	15.2	14.5
Two to Five	22	99	50	2,812	4,792	2,516	7.8	20.7	20.0
Six or More	24	85	32	1,375	3,605	1,288	17.7	23.5	24.8
Any Escalators	Q	41	Q	Q	1,598	Q	Q	25.7	Q
Number of Workers (main shift)									
Fewer than 5	36	44	29	4,848	5,608	3,605	7.4	7.8	8.1
5 to 9	15	37	21	1,766	2,693	1,687	8.2	13.9	12.3
10 to 19	14	37	38	2,429	3,045	2,329	5.8	12.2	16.2
20 to 49	24	70	60	3,158	4,568	3,236	7.7	15.2	18.4
50 to 99	18	58	42	1,781	3,725	2,428	10.3	15.6	17.1
100 to 249	18	72	45	1,284	3,779	1,808	13.6	19.2	24.8
250 or More	30	129	54	1,896	5,347	2,285	15.8	24.1	23.8
Weekly Operating Hours									
Fewer than 40	6	12	8	2,019	2,548	1,333	3.2	4.6	6.1
40 to 48	26	61	30	3,627	5,076	2,868	7.2	11.9	10.4
49 to 60	38	92	46	4,564	7,361	3,777	8.2	12.5	12.1
61 to 84	26	71	48	2,728	4,607	2,976	9.6	15.4	16.2
85 to 167	20	64	69	1,353	2,818	2,770	14.6	22.9	25.0
Open Continuously	39	148	87	2,872	6,355	3,653	13.5	23.2	23.8
Ownership and Occupancy									
Nongovernment Owned	108	343	222	12,516	21,961	13,534	8.7	15.6	16.4
Owner Occupied	57	160	101	7,103	10,371	5,981	8.0	15.4	16.9
Nonowner Occupied	51	182	120	5,116	10,912	7,230	10.0	16.7	16.6
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	46	104	66	4,647	6,804	3,844	10.0	15.3	17.1
Federal	Q	17	Q	Q	737	Q	17.0	23.2	Q
State	9	34	17	816	2,122	848	11.1	15.8	20.2
Local	23	53	41	2,992	3,945	2,620	7.7	13.5	15.8
Vacancy Status									
Completely Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	33	93	43	3,680	5,665	2,853	8.9	16.4	15.0
Not At All Vacant	120	352	244	12,832	22,251	14,179	9.4	15.8	17.2
Number of Establishments									
One	112	300	215	12,146	19,255	12,978	9.2	15.6	16.5
2 to 5	27	77	43	2,930	5,146	2,845	9.1	15.0	15.2
6 to 10	4	17	13	467	989	501	8.1	16.9	26.4
11 to 20	Q	17	Q	Q	974	Q	Q	17.8	Q
More than 20	9	34	Q	607	1,720	Q	14.8	19.9	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
Predominant Exterior Wall Material									
Brick, Stone or Stucco	107	212	122	12,533	12,959	6,802	8.6	16.4	17.9
Concrete (Block or Poured)	30	78	46	2,664	5,391	2,683	11.4	14.5	17.3
Concrete Panels	Q	72	44	Q	3,493	2,728	Q	20.5	16.0
Siding or Shingles	8	16	20	1,128	1,512	1,335	6.9	10.7	15.0
Metal Panels	Q	41	40	485	3,854	3,038	10.7	10.7	13.3
Window Glass	Q	12	Q	Q	624	Q	Q	19.6	Q
Other	Q	11	Q	Q	726	Q	Q	15.7	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material									
Built-Up	61	173	71	6,451	10,404	3,926	9.5	16.6	18.2
Shingles (Not Wood)	26	55	40	3,179	4,128	2,564	8.2	13.3	15.7
Metal Surfacing	7	46	62	943	4,753	5,538	7.3	9.6	11.3
Synthetic or Rubber	35	132	93	3,525	6,945	4,240	10.0	19.0	22.0
Slate or Tile	9	10	12	1,164	701	572	7.6	13.9	20.7
Wooden Materials	Q	7	Q	Q	461	Q	Q	15.3	Q
Concrete	Q	12	Q	Q	666	Q	Q	17.5	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	91	138	N	9,053	8,584	N	10.0	16.1	N
Addition or Annex	31	61	N	3,069	3,482	N	10.1	17.7	N
Reduction In Floorspace	7	Q	N	501	Q	N	13.2	Q	N
Cosmetic Improvements	67	108	N	6,735	6,267	N	10.0	17.3	N
Wall or Roof Replacement	41	61	N	4,166	3,890	N	9.8	15.6	N
Interior Wall Re-Configuration	42	76	N	4,175	4,327	N	9.9	17.6	N
HVAC Equipment Upgrade	59	96	N	5,433	5,332	N	10.8	18.0	N
Lighting Upgrade	54	86	N	5,481	4,792	N	9.9	17.9	N
Window Replacement	36	38	N	4,013	2,264	N	8.9	16.7	N
Plumbing System Upgrade	39	53	N	4,011	3,130	N	9.8	16.9	N
Insulation Upgrade	23	28	N	2,209	1,803	N	10.3	15.6	N
Other Renovation	3	Q	N	451	Q	N	7.4	Q	N
No Renovations Since 1980	64	125	N	8,110	10,027	N	7.9	12.5	N
Building Newer than 1980	N	184	288	N	10,154	17,378	N	18.1	16.6
Energy Sources (more than one may apply)									
Electricity	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
Natural Gas	106	318	210	12,091	19,763	11,608	8.7	16.1	18.1
Fuel Oil	44	139	67	4,995	6,951	3,196	8.8	20.1	20.9
District Heat	31	47	20	2,206	2,330	908	14.0	20.3	22.0
District Chilled Water	8	28	20	510	1,433	910	16.3	19.8	21.6
Propane	24	39	36	2,025	2,881	2,161	11.8	13.6	16.7
Other	2	14	Q	331	804	Q	6.9	17.1	Q

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
Space-Heating Energy Sources									
Electricity	61	238	158	5,769	13,818	9,013	10.5	17.2	17.5
Electricity Main	23	144	98	1,886	8,416	5,694	12.4	17.1	17.3
Electricity Secondary	37	93	59	3,883	5,402	3,319	9.6	17.3	17.9
Other Excluding Electricity	89	198	120	10,661	13,711	7,019	8.4	14.4	17.0
Buildings without Heating	5	12	11	733	1,237	1,346	6.8	9.4	7.9
Primary Space-Heating Energy Source									
Electricity	23	144	98	1,886	8,416	5,694	12.4	17.1	17.3
Natural Gas	83	232	144	9,425	15,149	8,390	8.8	15.3	17.2
Fuel Oil	10	9	Q	2,583	958	Q	4.0	9.3	Q
District Heat	29	43	19	2,001	2,044	862	14.6	20.9	22.0
Propane	4	6	10	450	768	729	8.3	8.1	14.4
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling Energy Sources									
Electricity	126	421	267	13,263	25,843	15,214	9.5	16.3	17.5
Other Excluding Electricity	Q	18	18	Q	1,090	922	Q	16.4	19.1
Buildings without Cooling	Q	8	4	3,308	1,832	1,241	5.7	4.4	2.9
Water-Heating Energy Sources									
Electricity	51	216	135	6,039	13,305	8,147	8.5	16.2	16.6
Other Excluding Electricity	85	216	144	8,530	13,104	7,338	9.9	16.5	19.7
Bldgs without Water Heating	Q	15	9	2,594	2,356	1,893	7.2	6.4	4.5
Cooking Energy Sources									
Electricity	38	132	79	3,320	6,449	3,392	11.3	20.4	23.4
Other Excluding Electricity	33	70	52	3,440	3,327	2,309	9.7	21.0	22.5
Buildings without Cooking	84	246	157	10,404	18,990	11,676	8.1	12.9	13.4
Energy End Uses (more than one may apply)									
Buildings with Space Heating	150	436	277	16,430	27,529	16,032	9.1	15.8	17.3
Buildings with Cooling	136	439	284	13,855	26,933	16,137	9.8	16.3	17.6
Buildings with Water Heating	136	432	279	14,569	26,409	15,484	9.3	16.4	18.0
Buildings with Cooking	71	202	131	6,760	9,776	5,701	10.5	20.6	23.0
Buildings with Manufacturing	7	20	15	928	1,480	730	7.2	13.4	20.3
Buildings with Electricity Generation	35	154	71	2,294	6,955	3,572	15.3	22.2	20.0
Percent of Floorspace Heated									
Not Heated	5	12	11	733	1,237	1,346	6.8	9.4	7.9
1 to 50	9	19	26	1,955	2,608	2,266	4.8	7.4	11.5
51 to 99	23	57	36	2,611	3,476	2,020	8.9	16.3	17.8
100	117	360	215	11,864	21,446	11,746	9.9	16.8	18.3
Percent of Floorspace Cooled									
Not Cooled	Q	8	4	3,308	1,832	1,241	5.7	4.4	2.9
1 to 50	31	59	40	5,393	7,014	4,176	5.8	8.3	9.6
51 to 99	39	111	68	3,663	6,171	3,377	10.6	18.1	20.2
100	66	269	176	4,799	13,748	8,584	13.8	19.6	20.5

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
Percent Lit When Open									
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	18	26	22	3,977	3,766	2,461	4.5	6.9	8.9
51 to 99	46	144	71	4,889	9,002	4,398	9.4	16.0	16.3
100	89	274	194	7,611	15,221	9,957	11.7	18.0	19.4
Building Never Open/ Electricity Not Used	Q	Q	Q	Q	Q	Q	Q	Q	Q
Percent Lit When Closed									
Zero	37	67	56	5,199	7,017	5,169	7.1	9.5	10.8
1 to 50	76	213	123	8,854	14,432	7,662	8.6	14.8	16.1
51 to 100	3	20	22	238	961	894	12.7	20.8	25.1
Building Never Closed/ Electricity Not Used	39	148	87	2,872	6,355	3,653	13.5	23.2	23.8
Heating Equipment (more than one may apply)									
Heat Pumps	20	79	54	1,617	4,223	2,973	12.5	18.6	18.3
Packaged Heat Pumps	11	62	33	796	3,059	1,587	14.1	20.1	20.5
Split-System Heat Pumps	5	20	15	364	1,214	1,003	12.6	16.7	14.9
Individual Room Heat Pumps	9	20	15	753	1,050	888	11.6	19.1	16.5
Furnaces	51	100	73	5,908	8,367	5,329	8.5	11.9	13.7
Individual Space Heaters	29	89	48	3,645	5,661	3,233	7.8	15.6	14.9
District Heat	30	44	19	2,147	2,139	880	13.9	20.5	22.0
Boilers	65	164	66	7,751	9,099	3,573	8.4	18.1	18.5
Packaged Heating Units	32	156	123	2,791	9,252	5,978	11.3	16.9	20.5
Other	4	29	16	386	1,659	1,197	11.0	17.2	13.8
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	32	62	40	3,470	4,779	2,786	9.1	12.9	14.4
Heat Pumps	22	78	60	1,699	4,241	3,102	13.0	18.4	19.5
Packaged Heat Pumps	12	60	33	860	2,997	1,569	14.4	20.1	20.9
Split-System Heat Pumps	5	20	15	419	1,205	981	13.0	16.6	15.7
Individual Room Heat Pumps	9	22	20	716	1,183	1,041	12.0	18.4	19.2
Individual Air Conditioners	39	69	33	5,406	5,295	1,858	7.2	13.0	17.7
District Chilled Water	8	28	20	510	1,433	910	16.3	19.8	21.6
Central Chillers	37	153	55	2,346	6,900	2,390	15.8	22.2	23.0
Packaged Air Conditioning Units	71	229	162	7,068	13,851	9,050	10.1	16.5	18.0
Swamp Coolers	Q	16	Q	Q	1,072	Q	Q	15.3	Q
Other	Q	9	Q	Q	528	Q	Q	17.6	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	50	160	N	6,045	10,348	N	8.3	15.4	N
Cooling	72	215	N	7,686	13,309	N	9.3	16.1	N
Water Heating Equipment									
Centralized System	88	260	167	8,889	16,543	9,225	9.9	15.7	18.1
Distributed System	21	71	50	3,221	4,871	3,448	6.4	14.5	14.6
Combination of Centralized and Distributed System	28	101	62	2,459	4,996	2,812	11.2	20.2	22.1

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
Lighting Equipment Types (more than one may apply)									
Incandescent	98	318	172	11,094	18,083	9,351	8.8	17.6	18.4
Standard Fluorescent	148	438	279	15,996	27,530	16,161	9.3	15.9	17.3
Compact Fluorescent	72	264	152	6,587	13,504	7,480	10.9	19.5	20.4
High Intensity Discharge	55	151	124	4,992	9,231	6,420	11.0	16.4	19.3
Halogen	44	163	107	4,079	8,102	5,522	10.7	20.1	19.3
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	131	410	271	13,973	24,165	14,836	9.4	17.0	18.3
Commercial Refrigeration	84	266	173	7,421	12,240	7,107	11.4	21.7	24.4
Walk-In Units	64	226	146	5,242	9,625	5,387	12.3	23.4	27.2
Cases or Cabinets	70	219	134	5,492	9,628	5,304	12.7	22.8	25.2
Residential-Type Units	90	269	160	11,110	17,563	10,211	8.1	15.3	15.7
Vending Machines	80	311	191	7,833	17,126	10,375	10.2	18.2	18.4
No Refrigeration	24	37	17	3,190	4,601	2,542	7.4	8.1	6.6
Office Equipment (more than one may apply)									
Computers	131	426	274	14,244	25,894	15,490	9.2	16.5	17.7
With Flat Screen Monitors	68	254	143	6,001	13,348	7,068	11.4	19.1	20.3
Dedicated Servers	84	322	190	8,136	17,936	10,265	10.4	17.9	18.5
Laser Printers	77	233	145	9,240	15,256	8,516	8.3	15.2	17.0
Inkjet Printers	77	275	182	6,987	15,573	9,650	11.1	17.6	18.8
FAX Machines	123	408	261	13,208	24,496	14,669	9.3	16.6	17.8
Photocopiers	106	362	224	11,473	21,832	12,952	9.2	16.6	17.3
Number of Computers									
None	24	21	14	2,920	2,872	1,888	8.1	7.4	7.2
1 to 4	30	64	59	4,022	5,011	3,362	7.5	12.7	17.6
5 to 9	14	35	31	2,124	2,820	2,236	6.5	12.5	14.0
10 to 19	11	39	33	1,268	3,254	2,088	8.8	12.1	15.8
20 to 49	19	55	46	1,808	3,178	2,428	10.4	17.3	18.9
50 to 99	13	44	19	1,607	2,523	1,246	8.3	17.3	15.1
100 to 249	16	56	36	1,507	3,277	1,907	10.3	17.1	19.0
250 or More	28	133	50	1,909	5,832	2,222	14.8	22.8	22.5
Number of Dedicated Servers									
None	70	125	98	9,027	10,829	7,112	7.8	11.6	13.8
1 to 4	49	177	115	5,444	11,560	7,112	9.1	15.3	16.2
5 to 9	10	37	26	1,078	1,607	1,180	9.4	23.0	22.3
10 to 19	10	33	20	795	1,468	764	13.1	22.3	26.4
20 to 49	Q	41	8	Q	1,921	423	Q	21.4	19.5
50 or More	10	34	20	581	1,380	787	17.5	24.7	25.4
Number of Photocopiers									
None	49	85	64	5,690	6,934	4,426	8.6	12.2	14.6
One	32	72	70	4,324	6,116	5,035	7.4	11.7	14.0
2 to 4	30	107	70	3,669	7,155	4,258	8.1	15.0	16.5
5 to 9	10	49	36	1,256	2,754	1,505	Q	17.8	23.6
10 or More	34	135	48	2,224	5,806	2,154	15.4	23.2	22.1

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	71	202	131	6,748	9,774	5,701	10.5	20.6	23.0
Activities with Large Amounts of Hot Water	52	178	111	4,912	9,140	5,430	10.6	19.5	20.5
Separate Computer Area	68	255	131	6,222	13,495	7,156	11.0	18.9	18.2
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	45	209	118	3,465	9,798	6,335	13.0	21.3	18.6
Economizer Cycle	53	233	127	3,618	11,196	6,294	14.6	20.8	20.1
HVAC Maintenance	127	399	266	13,084	23,498	14,569	9.7	17.0	18.3
Energy Management and Control System (EMCS)	35	158	87	2,975	8,078	4,577	11.6	19.5	19.1
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	84	293	216	9,534	16,692	12,502	8.8	17.6	17.3
Tinted Window Glass	63	273	157	5,462	14,980	9,183	11.5	18.2	17.1
Reflective Window Glass	19	81	53	1,576	4,009	2,943	12.3	20.2	17.8
External Overhangs or Awnings	38	149	95	4,112	8,141	4,919	9.3	18.3	19.3
Skylights or Atriums	23	102	64	2,661	6,126	3,722	8.5	16.7	17.3
Daylighting Sensors	5	31	25	448	1,407	1,014	10.3	21.7	24.9
Specular Reflectors	64	226	146	6,340	12,258	7,519	10.1	18.4	19.4
Electronic Ballasts	122	371	240	11,938	21,721	13,223	10.2	17.1	18.1
Energy Management and Control System (EMCS) For Lighting	6	51	34	565	2,606	1,610	11.1	19.4	21.3
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	95	294	176	11,574	20,077	11,055	8.2	14.6	16.0
Cooling	99	304	192	11,103	20,157	11,930	9.0	15.1	16.1
Lighting	113	285	190	13,346	20,951	12,690	8.4	13.6	15.0
Office Equipment	46	96	69	6,195	8,140	5,062	7.4	11.8	13.7
Annual Consumption (kilowatthours)									
10,000 or Less	1	2	1	1,102	1,083	676	1.4	1.5	1.1
10,001 to 50,000	15	19	10	3,538	3,820	1,870	4.3	5.1	5.5
50,001 to 100,000	16	23	13	2,344	2,382	1,735	6.7	9.5	7.7
100,001 to 500,000	42	100	67	4,712	7,155	4,244	9.0	13.9	15.9
500,001 to 1,000,000	13	48	35	1,308	3,269	2,160	10.2	14.8	16.3
1,000,001 to 5,000,000	35	136	98	2,329	6,488	4,391	14.9	20.9	22.4
Over 5,000,000	32	120	63	1,830	4,568	2,301	17.4	26.3	27.2

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

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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*	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
Provider of Purchased Electricity (more than one may apply)									
Local Utility	142	395	254	15,846	26,253	15,754	8.9	15.0	16.2
Some Other Provider	15	51	25	1,329	2,366	1,250	11.1	21.5	19.8

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 9.7 percent of total electricity consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use electricity.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	All Buildings* Using Natural Gas			Natural Gas Consumption		Natural Gas Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (billion cubic feet)	Total (million dollars)
All Buildings*	2,391	43,468	18.2	1,928	1,870	14,525
Building Floorspace (Square Feet)						
1,001 to 5,000	1,110	3,084	2.8	250	243	2,155
5,001 to 10,000	496	3,692	7.4	209	202	1,689
10,001 to 25,000	450	7,053	15.7	309	300	2,524
25,001 to 50,000	168	6,025	35.8	258	250	1,865
50,001 to 100,000	95	6,683	70.6	244	236	1,868
100,001 to 200,000	48	6,645	138.4	249	241	1,737
200,001 to 500,000	19	5,679	292.6	205	199	1,343
Over 500,000	5	4,606	919.5	204	198	1,344
Principal Building Activity						
Education	213	7,045	33.1	268	260	1,889
Food Sales	98	747	7.6	39	37	332
Food Service	226	1,396	6.2	203	197	1,615
Health Care	72	2,544	35.5	243	235	1,538
Inpatient	7	1,805	257.0	204	198	1,241
Outpatient	65	739	11.4	38	37	297
Lodging	86	4,256	49.7	215	208	1,581
Retail (Other Than Mall)	245	2,866	11.7	91	89	719
Office	488	8,208	16.8	269	261	2,201
Public Assembly	146	2,723	18.6	102	99	775
Public Order and Safety	36	637	17.7	29	28	234
Religious Worship	220	2,629	11.9	82	80	664
Service	281	2,496	8.9	139	135	1,096
Warehouse and Storage	187	5,494	29.4	132	128	976
Other	45	1,252	27.9	87	85	684
Vacant	49	1,176	24.2	28	27	220
Year Constructed						
Before 1920	200	2,759	13.8	143	139	1,134
1920 to 1945	338	4,679	13.9	229	223	1,708
1946 to 1959	313	4,659	14.9	216	210	1,610
1960 to 1969	309	5,635	18.2	255	248	1,872
1970 to 1979	391	7,659	19.6	351	341	2,466
1980 to 1989	303	6,469	21.3	291	282	2,270
1990 to 1999	419	8,177	19.5	314	305	2,452
2000 to 2003	118	3,431	29.1	127	123	1,012
Census Region and Division						
Northeast	397	9,181	23.1	428	415	3,553
New England	74	1,465	19.8	75	73	673
Middle Atlantic	323	7,716	23.9	353	343	2,880
Midwest	802	13,163	16.4	705	683	4,844
East North Central	546	9,570	17.5	528	512	3,649
West North Central	255	3,593	14.1	177	171	1,195
South	714	13,311	18.6	474	460	3,866
South Atlantic	308	6,326	20.5	217	210	1,934
East South Central	155	2,281	14.7	102	99	817
West South Central	251	4,704	18.7	156	151	1,115
West	479	7,813	16.3	320	311	2,261
Mountain	190	2,797	14.7	167	162	1,089
Pacific	289	5,016	17.4	153	149	1,172

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

	All Buildings* Using Natural Gas			Natural Gas Consumption		Natural Gas Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (billion cubic feet)	Total (million dollars)
All Buildings*	2,391	43,468	18.2	1,928	1,870	14,525
Climate Zone: 30-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	493	7,645	15.5	431	418	3,076
5,500-7,000 HDD	718	12,850	17.9	679	659	4,901
4,000-5,499 HDD	347	8,113	23.4	337	327	2,702
Fewer than 4,000 HDD	646	10,509	16.3	358	347	2,920
2,000 CDD or More and --						
Fewer than 4,000 HDD	187	4,350	23.2	122	119	925
Number of Floors						
One	1,431	14,940	10.4	664	644	5,406
Two	617	11,441	18.5	491	476	3,627
Three	242	5,668	23.5	241	234	1,816
Four to Nine	93	7,670	82.1	378	367	2,560
Ten or More	9	3,749	437.6	154	149	1,116
Number of Workers (main shift)						
Fewer than 5	1,082	7,023	6.5	272	264	2,308
5 to 9	474	4,084	8.6	198	192	1,666
10 to 19	359	5,317	14.8	242	235	1,841
20 to 49	289	8,212	28.5	395	383	2,951
50 to 99	113	6,156	54.7	241	234	1,780
100 to 249	52	5,127	98.1	235	228	1,652
250 or More	23	7,549	333.2	344	334	2,327
Weekly Operating Hours						
Fewer than 40	382	3,259	8.5	107	104	892
40 to 48	569	6,913	12.1	249	242	2,018
49 to 60	607	10,191	16.8	374	363	2,928
61 to 84	374	7,468	20.0	314	305	2,373
85 to 167	233	5,225	22.4	257	249	1,906
Open Continuously	225	10,411	46.2	626	607	4,407
Ownership and Occupancy						
Nongovernment Owned	2,078	33,317	16.0	1,503	1,458	11,558
Owner Occupied	1,044	16,548	15.8	708	686	5,361
Nonowner Occupied	997	15,886	15.9	779	756	6,070
Unoccupied	Q	Q	Q	Q	Q	Q
Government Owned	313	10,150	32.4	425	412	2,967
Federal	23	1,083	46.3	35	34	226
State	72	2,438	33.8	98	95	748
Local	218	6,630	30.4	291	283	1,993
Vacancy Status						
Completely Vacant	37	933	25.6	18	18	142
Mostly Vacant	Q	Q	Q	Q	Q	Q
Partially Vacant	264	8,446	32.0	318	308	2,477
Not At All Vacant	2,079	33,845	16.3	1,582	1,534	11,828

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

	All Buildings* Using Natural Gas			Natural Gas Consumption		Natural Gas Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (billion cubic feet)	Total (million dollars)
All Buildings*	2,391	43,468	18.2	1,928	1,870	14,525
Number of Establishments						
One	1,912	30,518	16.0	1,462	1,418	10,950
2 to 5	382	7,593	19.9	307	298	2,377
6 to 10	39	1,355	34.5	48	47	366
11 to 20	12	1,271	102.6	34	33	248
More than 20	9	1,797	Q	58	56	441
Currently Unoccupied	37	933	25.6	18	18	142
Predominant Exterior Wall Material						
Brick, Stone or Stucco	1,292	23,551	18.2	1,127	1,093	8,403
Concrete (Block or Poured)	423	7,323	17.3	351	340	2,622
Concrete Panels	83	4,680	56.4	180	174	1,326
Siding or Shingles	261	1,997	7.7	85	83	735
Metal Panels	276	4,023	14.6	130	126	1,059
Window Glass	11	696	65.0	14	14	83
Other	33	898	26.9	35	34	248
No One Major Type	Q	Q	Q	Q	Q	Q
Predominant Roof Material						
Built-Up	649	15,208	23.4	743	720	5,529
Shingles (Not Wood)	677	6,519	9.6	310	301	2,482
Metal Surfacing	436	5,781	13.2	194	188	1,516
Synthetic or Rubber	363	11,838	32.7	542	526	3,905
Slate or Tile	152	1,574	10.4	67	65	562
Wooden Materials	59	526	8.9	21	20	160
Concrete	34	Q	Q	24	23	168
Other	Q	Q	Q	Q	Q	Q
No One Major Type	13	378	29.1	16	16	124
Renovations in Buildings Constructed Before 1980 (more than one may apply)						
Any Type of Renovation Since 1980	641	13,270	20.7	684	663	4,851
Addition or Annex	158	5,036	31.8	304	295	1,982
Reduction In Floorspace	18	964	53.6	52	50	390
Cosmetic Improvements	477	10,073	21.1	497	482	3,587
Wall or Roof Replacement	234	6,328	27.0	278	270	1,966
Interior Wall Re-Configuration	278	7,019	25.2	342	331	2,430
HVAC Equipment Upgrade	306	8,482	27.7	467	453	3,281
Lighting Upgrade	304	8,104	26.7	397	386	2,868
Window Replacement	195	5,000	25.6	242	235	1,734
Plumbing System Upgrade	213	5,714	26.8	287	278	2,051
Insulation Upgrade	142	2,960	20.8	132	128	978
Other Renovation	12	443	37.4	26	25	Q
No Renovations Since 1980	910	12,120	13.3	512	497	3,939
Building Newer than 1980	840	18,077	21.5	732	710	5,734

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

	All Buildings* Using Natural Gas			Natural Gas Consumption		Natural Gas Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (billion cubic feet)	Total (million dollars)
All Buildings*	2,391	43,468	18.2	1,928	1,870	14,525
Energy Sources (more than one may apply)						
Electricity	2,390	43,461	18.2	1,927	1,869	14,523
Natural Gas	2,391	43,468	18.2	1,928	1,870	14,525
Fuel Oil	129	10,383	80.4	507	492	3,539
District Heat	25	2,444	99.5	47	46	323
District Chilled Water	17	1,765	101.7	35	34	244
Propane	47	2,470	52.7	106	103	751
Other	39	903	23.4	47	46	330
Space-Heating Energy Sources						
Natural Gas	2,165	36,959	17.1	1,803	1,749	13,515
Natural Gas Main	1,999	32,970	16.5	1,687	1,636	12,586
Natural Gas Secondary	166	3,989	24.0	116	113	929
Other Excluding Natural Gas	179	6,015	33.6	106	103	862
Buildings without Heating	47	494	10.6	Q	Q	Q
Primary Space-Heating Energy Source						
Electricity	281	6,162	21.9	177	171	1,434
Natural Gas	1,999	32,970	16.5	1,687	1,636	12,586
Fuel Oil	38	Q	42.3	20	20	162
District Heat	24	2,117	90.0	23	22	172
Propane	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q
Cooling Energy Sources						
Natural Gas	17	1,018	58.9	92	89	672
Other Excluding Natural Gas	2,136	40,006	18.7	1,729	1,677	13,046
Buildings without Cooling	238	2,444	10.3	107	104	807
Water-Heating Energy Sources						
Natural Gas	1,445	28,820	19.9	1,509	1,463	11,092
Other Excluding Natural Gas	681	12,313	18.1	361	350	2,933
Bldgs without Water Heating	265	2,334	8.8	57	56	500
Cooking Energy Sources						
Natural Gas	457	15,438	33.8	856	830	6,157
Other Excluding Natural Gas	107	3,218	30.0	141	137	1,007
Buildings without Cooking	1,827	24,812	13.6	931	903	7,361
Energy End Uses (more than one may apply)						
Buildings with Space Heating	2,344	42,974	18.3	1,909	1,852	14,377
Buildings with Cooling	2,153	41,023	19.1	1,821	1,766	13,718
Buildings with Water Heating	2,126	41,134	19.3	1,870	1,814	14,025
Buildings with Cooking	564	18,656	33.1	997	967	7,163
Buildings with Manufacturing	70	2,301	33.1	100	97	718
Buildings with Electricity Generation	104	10,402	99.7	534	518	3,718

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

	All Buildings* Using Natural Gas			Natural Gas Consumption		Natural Gas Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (billion cubic feet)	Total (million dollars)
All Buildings*	2,391	43,468	18.2	1,928	1,870	14,525
Percent of Floorspace Heated						
Not Heated	47	494	10.6	Q	Q	Q
1 to 50	231	4,006	17.4	97	94	831
51 to 99	317	5,965	18.8	268	260	2,078
100	1,796	33,002	18.4	1,544	1,498	11,468
Percent of Floorspace Cooled						
Not Cooled	238	2,444	10.3	107	104	807
1 to 50	601	12,132	20	452	438	3,465
51 to 99	402	9,732	24	451	438	3,341
100	1,150	19,159	17	918	890	6,912
Heating Equipment (more than one may apply)						
Heat Pumps	152	5,552	37	224	217	1,804
Packaged Heat Pumps	86	3,323	39	140	135	1,115
Split-System Heat Pumps	50	1,453	29	42	41	361
Individual Room Heat Pumps	32	2,195	69	84	81	648
Furnaces	1,314	15,304	12	673	653	5,095
Individual Space Heaters	429	8,969	21	379	368	2,720
District Heat	24	2,291	95	39	38	269
Boilers	432	18,174	42	1,040	1,009	7,418
Packaged Heating Units	586	13,618	23	582	564	4,477
Other	85	1,801	21	47	46	368
Cooling Equipment (more than one may apply)						
Residential-Type Central Air Conditioners	652	7,982	12	391	379	2,867
Heat Pumps	176	5,832	33	234	227	1,887
Packaged Heat Pumps	100	3,352	33	145	141	1,163
Split-System Heat Pumps	59	1,489	25	45	43	382
Individual Room Heat Pumps	31	2,380	76	85	83	660
Individual Air Conditioners	392	9,114	23	410	398	3,040
District Chilled Water	17	1,765	102	35	34	244
Central Chillers	78	9,100	117	501	486	3,461
Packaged Air Conditioning Units	1,116	23,806	21	1,090	1,057	8,210
Swamp Coolers	78	1,265	16	81	78	520
Other	16	808	50	52	51	377
Main Equipment Replaced Since 1990 (more than one may apply)						
Heating	734	12,275	17	605	587	4,519
Cooling	873	16,047	18	779	756	5,761
Water Heating Equipment						
Centralized System	1,560	25,353	16	1,226	1,189	9,346
Distributed System	438	7,559	17	254	247	1,989
Combination of Centralized and Distributed System	128	8,222	64	390	378	2,691

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

	All Buildings* Using Natural Gas			Natural Gas Consumption		Natural Gas Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (billion cubic feet)	Total (million dollars)
All Buildings*	2,391	43,468	18.2	1,928	1,870	14,525
Energy-Related Space Functions (more than one may apply)						
Commercial Food Preparation	563	18,644	33	996	966	7,156
Activities with Large Amounts of Hot Water	404	16,023	40	931	903	6,466
Separate Computer Area	373	20,615	55	875	849	6,230
HVAC Conservation Features (more than one may apply)						
Variable Air-Volume System	290	14,594	50	710	688	5,070
Economizer Cycle	348	16,655	48	805	781	5,703
HVAC Maintenance	1,576	36,984	24	1,659	1,609	12,356
Energy Management and Control System (EMCS)	155	11,626	75	477	463	3,318
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]						
Heating	1,727	31,179	18	1,292	1,253	9,840
Cooling	1,676	31,437	19	1,288	1,249	9,785
Lighting	2,043	31,070	15	1,250	1,213	9,710
Office Equipment	863	12,670	15	476	462	3,666
Annual Consumption (hundred cubic feet)						
1,000 or Less	674	4,336	6	37	35	411
1,001 to 5,000	1,011	9,732	10	249	242	2,223
5,001 to 10,000	339	6,254	19	247	239	2,042
10,001 to 25,000	232	7,767	34	360	349	2,796
25,001 to 50,000	85	5,534	65	293	284	2,161
50,001 to 100,000	30	3,969	132	218	211	1,450
Over 100,000	21	5,875	285	525	510	3,441
Provider of Natural Gas (more than one may apply)						
Local Utility	2,255	38,362	17	1,631	1,582	12,577
Some Other Provider	149	6,372	43	389	377	2,537

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 3.8 percent of total natural gas consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use natural gas.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Natural Gas Consumption						Natural Gas Expenditures		
				Distribution of Building-Level Intensities (cubic feet/square foot)					
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	per Worker (thousand cubic feet)	25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)
All Buildings*	782	43.0	36.0	17.6	37.1	70.9	6.1	0.33	7.77
Building Floorspace (Square Feet)									
1,001 to 5,000	219	78.7	42.6	23.7	46.3	92.0	1.9	0.70	8.88
5,001 to 10,000	408	54.8	42.5	13.9	28.8	65.7	3.4	0.46	8.34
10,001 to 25,000	667	42.5	40.8	14.4	29.2	52.1	5.6	0.36	8.41
25,001 to 50,000	1,483	41.5	39.1	16.0	31.5	55.3	11.1	0.31	7.46
50,001 to 100,000	2,498	35.4	39.1	10.1	27.6	48.8	19.7	0.28	7.90
100,001 to 200,000	5,029	36.3	26.1	6.1	23.6	55.2	36.2	0.26	7.19
200,001 to 500,000	10,234	35.0	35.5	10.0	22.7	47.2	69.2	0.24	6.76
Over 500,000	39,551	43.0	28.8	2.8	20.0	71.9	268.2	0.29	6.78
Principal Building Activity									
Education	1,223	36.9	28.0	14.9	31.9	60.8	8.9	0.27	7.27
Food Sales	383	50.2	38.0	18.9	39.8	69.4	3.4	0.44	8.85
Food Service	870	141.2	72.0	77.0	150.3	301.8	7.1	1.16	8.20
Health Care	3,283	92.5	44.1	19.1	40.1	65.7	21.5	0.60	6.54
Inpatient	28,222	109.8	56.2	77.1	112.3	145.1	176.8	0.69	6.26
Outpatient	574	50.2	20.6	16.2	34.2	56.0	4.6	0.40	8.01
Lodging	2,432	48.9	101.2	19.8	36.7	76.4	18.5	0.37	7.59
Retail (Other Than Mall)	362	30.9	41.3	16.5	28.7	66.8	2.9	0.25	8.11
Office	535	31.8	13.8	17.2	35.7	56.9	4.5	0.27	8.42
Public Assembly	678	36.4	63.0	13.0	28.9	53.5	5.3	0.28	7.83
Public Order and Safety	771	43.7	39.8	26.6	49.8	76.8	6.5	0.37	8.43
Religious Worship	362	30.3	70.2	12.9	29.5	53.0	3.0	0.25	8.33
Service	481	54.1	52.2	22.9	44.5	82.6	3.9	0.44	8.12
Warehouse and Storage	687	23.4	42.1	9.3	22.1	37.5	5.2	0.18	7.60
Other	1,885	67.6	59.7	22.6	46.3	82.8	15.3	0.55	8.09
Vacant	557	23.0	Q	7.4	21.7	44.6	4.5	0.19	8.14
Year Constructed									
Before 1920	693	50.3	58.8	24.6	46.8	70.7	5.7	0.41	8.16
1920 to 1945	659	47.6	44.5	17.5	36.0	68.2	5.1	0.37	7.67
1946 to 1959	670	45.1	47.2	21.9	39.0	76.8	5.1	0.35	7.67
1960 to 1969	802	44.0	41.1	18.2	38.0	70.9	6.1	0.33	7.56
1970 to 1979	872	44.5	35.9	19.4	36.3	71.7	6.3	0.32	7.24
1980 to 1989	931	43.7	30.2	15.2	30.3	71.8	7.5	0.35	8.04
1990 to 1999	727	37.2	25.1	15.1	32.0	69.7	5.9	0.30	8.05
2000 to 2003	1,042	35.8	38.7	14.5	35.0	69.1	8.6	0.30	8.25
Census Region and Division									
Northeast	1,047	45.2	36.7	22.5	46.2	80.8	9.0	0.39	8.56
New England	981	49.5	38.4	15.9	41.1	61.7	9.1	0.46	9.27
Middle Atlantic	1,062	44.4	36.3	25.1	48.4	82.9	8.9	0.37	8.41
Midwest	853	51.9	49.5	25.6	45.4	81.2	6.0	0.37	7.09
East North Central	938	53.5	49.8	27.4	47.7	85.0	6.7	0.38	7.12
West North Central	671	47.6	48.7	23.4	43.9	74.1	4.7	0.33	6.98
South	644	34.6	27.4	12.5	26.3	52.8	5.4	0.29	8.40
South Atlantic	683	33.2	20.8	12.7	30.1	55.7	6.3	0.31	9.20
East South Central	635	43.3	45.9	14.4	25.1	45.9	5.3	0.36	8.28
West South Central	603	32.2	33.5	9.6	24.0	58.9	4.4	0.24	7.37
West	649	39.8	30.9	11.5	27.2	58.4	4.7	0.29	7.28
Mountain	853	57.9	51.1	28.3	49.8	92.0	5.7	0.39	6.72
Pacific	516	29.7	21.6	7.1	17.2	37.7	4.1	0.23	7.88

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

	Natural Gas Consumption						Natural Gas Expenditures		
				Distribution of Building-Level Intensities (cubic feet/square foot)					
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	per Worker (thousand cubic feet)	25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)
All Buildings*	782	43.0	36.0	17.6	37.1	70.9	6.1	0.33	7.77
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	849	54.7	51.2	29.6	46.4	85.7	6.2	0.40	7.35
5,500-7,000 HDD	917	51.3	46.9	25.3	46.1	80.2	6.8	0.38	7.44
4,000-5,499 HDD	941	40.3	33.2	20.2	38.4	70.1	7.8	0.33	8.27
Fewer than 4,000 HDD	538	33.0	29.2	11.5	23.4	46.2	4.5	0.28	8.41
2,000 CDD or More and --									
Fewer than 4,000 HDD	634	27.3	14.8	6.1	16.0	47.9	4.9	0.21	7.79
Number of Floors									
One	450	43.1	41.3	18.9	37.9	73.7	3.8	0.36	8.40
Two	772	41.6	42.8	16.6	33.9	63.9	5.9	0.32	7.61
Three	967	41.2	38.5	19.2	40.2	70.7	7.5	0.32	7.77
Four to Nine	3,929	47.9	29.2	13.7	41.8	70.3	27.4	0.33	6.98
Ten or More	17,396	39.8	22.5	5.2	23.2	54.9	130.2	0.30	7.49
Number of Workers (main shift)									
Fewer than 5	244	37.6	114.5	15.7	34.3	66.8	2.1	0.33	8.74
5 to 9	405	47.1	61.8	19.2	40.4	78.8	3.5	0.41	8.67
10 to 19	655	44.2	51.5	19.9	38.4	88.1	5.1	0.35	7.84
20 to 49	1,327	46.6	44.6	20.5	40.5	76.6	10.2	0.36	7.71
50 to 99	2,078	38.0	32.6	18.6	34.6	58.8	15.8	0.29	7.61
100 to 249	4,355	44.4	30.0	11.3	34.5	68.9	31.6	0.32	7.26
250 or More	14,736	44.2	17.9	4.1	21.8	55.5	102.7	0.31	6.97
Weekly Operating Hours									
Fewer than 40	272	31.9	61.6	12.9	30.3	53.7	2.3	0.27	8.59
40 to 48	425	35.0	27.3	16.3	32.3	59.9	3.5	0.29	8.34
49 to 60	598	35.6	29.0	17.4	35.9	64.7	4.8	0.29	8.07
61 to 84	816	40.8	36.8	20.2	44.9	90.9	6.4	0.32	7.78
85 to 167	1,069	47.7	27.5	23.1	62.2	173.1	8.2	0.36	7.65
Open Continuously	2,692	58.3	52.4	23.4	46.0	81.5	19.6	0.42	7.26
Ownership and Occupancy									
Nongovernment Owned	701	43.7	38.4	17.5	37.3	71.3	5.6	0.35	7.93
Owner Occupied	657	41.5	35.1	17.0	35.1	62.3	5.1	0.32	7.81
Nonowner Occupied	758	47.6	41.1	19.3	39.1	82.6	6.1	0.38	8.03
Unoccupied	Q	Q	N	8.4	18.7	47.1	Q	Q	Q
Government Owned	1,315	40.6	29.4	19.2	36.0	64.4	9.5	0.29	7.20
Federal	1,455	31.4	18.4	13.7	45.4	93.5	9.6	0.21	6.63
State	1,323	39.1	16.6	19.2	29.8	61.0	10.4	0.31	7.83
Local	1,297	42.6	44.0	19.2	40.3	64.4	9.2	0.30	7.05
Vacancy Status									
Completely Vacant	480	18.8	N	8.4	21.7	47.1	3.9	0.15	8.10
Mostly Vacant	Q	Q	Q	6.5	35.9	41.2	Q	Q	Q
Partially Vacant	1,169	36.5	26.1	16.3	34.3	63.9	9.4	0.29	8.04
Not At All Vacant	738	45.3	38.3	18.7	37.9	73.7	5.7	0.35	7.71

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

	Natural Gas Consumption						Natural Gas Expenditures		
				Distribution of Building-Level Intensities (cubic feet/square foot)					
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	per Worker (thousand cubic feet)	25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)
All Buildings*	782	43.0	36.0	17.6	37.1	70.9	6.1	0.33	7.77
Number of Establishments									
One	742	46.5	44.8	19.3	38.4	74.4	5.7	0.36	7.72
2 to 5	779	39.2	33.7	15.9	33.6	62.3	6.2	0.31	7.99
6 to 10	1,186	34.4	9.2	6.8	27.0	54.7	9.3	0.27	7.86
11 to 20	2,685	26.2	14.2	6.1	16.9	35.7	20.0	0.20	7.47
More than 20	Q	31.4	14.0	12.1	30.1	40.3	Q	0.25	7.82
Currently Unoccupied	480	18.8	N	8.4	21.7	47.1	3.9	0.15	8.10
Predominant Exterior Wall Material									
Brick, Stone or Stucco	846	46.4	40.8	17.0	36.6	72.5	6.5	0.36	7.69
Concrete (Block or Poured)	803	46.4	47.2	21.7	41.3	77.9	6.2	0.36	7.71
Concrete Panels	2,100	37.3	19.6	16.3	32.6	62.6	16.0	0.28	7.60
Siding or Shingles	317	41.4	35.3	22.3	40.9	69.4	2.8	0.37	8.88
Metal Panels	458	31.4	32.4	12.8	28.1	60.3	3.8	0.26	8.39
Window Glass	1,311	20.2	12.1	28.3	28.7	47.9	7.8	0.12	5.94
Other	1,012	37.6	26.5	17.0	23.4	57.2	7.4	0.28	7.35
No One Major Type	Q	Q	Q	7.4	29.6	39.5	Q	Q	Q
Predominant Roof Material									
Built-Up	1,110	47.4	39.3	19.2	41.7	78.3	8.5	0.36	7.68
Shingles (Not Wood)	444	46.1	45.2	19.5	35.8	61.8	3.7	0.38	8.25
Metal Surfacing	431	32.6	37.3	13.7	28.8	60.3	3.5	0.26	8.05
Synthetic or Rubber	1,450	44.4	30.0	21.2	41.3	83.9	10.8	0.33	7.43
Slate or Tile	425	41.1	34.2	13.9	34.4	79.6	3.7	0.36	8.69
Wooden Materials	343	38.6	33.0	12.8	27.1	54.4	2.7	0.30	7.90
Concrete	677	Q	20.8	9.5	21.7	98.7	5.0	Q	7.36
Other	Q	Q	Q	32.0	47.5	61.8	Q	Q	Q
No One Major Type	1,219	42.0	Q	34.9	49.5	68.0	9.5	0.33	7.80
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	1,035	50.0	42.2	21.4	40.1	74.1	7.6	0.37	7.32
Addition or Annex	1,865	58.6	54.7	26.4	47.9	85.0	12.5	0.39	6.71
Reduction In Floorspace	2,781	51.8	48.2	29.1	62.1	128.1	21.7	0.40	7.80
Cosmetic Improvements	1,010	47.8	38.9	20.9	39.0	70.8	7.5	0.36	7.44
Wall or Roof Replacement	1,152	42.6	34.6	18.4	37.9	62.1	8.4	0.31	7.28
Interior Wall Re-Configuration	1,191	47.2	36.1	21.6	39.7	71.1	8.7	0.35	7.33
HVAC Equipment Upgrade	1,480	53.4	40.5	19.2	40.9	74.1	10.7	0.39	7.24
Lighting Upgrade	1,270	47.6	38.2	18.4	39.4	69.7	9.4	0.35	7.44
Window Replacement	1,205	47.0	41.4	18.4	35.6	67.2	8.9	0.35	7.37
Plumbing System Upgrade	1,303	48.7	40.0	20.9	42.4	71.3	9.6	0.36	7.38
Insulation Upgrade	897	43.1	32.8	18.4	37.9	69.4	6.9	0.33	7.66
Other Renovation	2,147	57.4	Q	27.8	41.2	133.6	Q	Q	Q
No Renovations Since 1980	546	41.0	42.8	17.9	37.7	70.8	4.3	0.33	7.93
Building Newer than 1980	845	39.3	28.8	15.1	31.9	69.7	6.8	0.32	8.08

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

	Natural Gas Consumption						Natural Gas Expenditures		
				Distribution of Building-Level Intensities (cubic feet/square foot)					
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	per Worker (thousand cubic feet)	25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)
All Buildings*	782	43.0	36.0	17.6	37.1	70.9	6.1	0.33	7.77
Energy Sources (more than one may apply)									
Electricity	782	43.0	36.0	17.6	37.1	70.9	6.1	0.33	7.77
Natural Gas	782	43.0	36.0	17.6	37.1	70.9	6.1	0.33	7.77
Fuel Oil	3,808	47.3	35.0	11.3	35.9	68.7	27.4	0.34	7.20
District Heat	1,856	18.7	6.6	1.3	3.4	9.7	13.2	0.13	7.09
District Chilled Water	1,956	19.2	6.0	1.7	6.6	43.7	14.1	0.14	7.19
Propane	2,197	41.7	52.5	19.8	43.0	109.0	16.0	0.30	7.30
Other	1,188	50.7	36.6	17.3	25.3	45.1	8.6	0.36	7.20
Space-Heating Energy Sources									
Natural Gas	808	47.3	42.7	19.4	37.9	71.3	6.2	0.37	7.73
Natural Gas Main	819	49.6	44.5	20.7	38.9	71.7	6.3	0.38	7.69
Natural Gas Secondary	678	28.3	27.1	10.3	22.4	49.2	5.6	0.23	8.23
Other Excluding Natural Gas	574	17.1	9.7	6.1	23.5	65.0	4.8	0.14	8.38
Buildings without Heating	Q	Q	Q	5.9	12.9	54.7	Q	Q	8.40
Primary Space-Heating Energy Source									
Electricity	609	27.8	24.2	11.2	27.2	72.8	5.1	0.23	8.38
Natural Gas	819	49.6	44.5	20.7	38.9	71.7	6.3	0.38	7.69
Fuel Oil	522	Q	19.5	4.3	12.7	28.6	4.3	Q	8.28
District Heat	Q	10.5	3.4	1.1	2.8	7.9	Q	0.08	7.71
Propane	Q	Q	Q	2.9	2.9	2.9	Q	Q	Q
Other	Q	Q	Q	0.0	20.7	25.1	Q	Q	Q
Cooling Energy Sources									
Natural Gas	5,156	87.6	66.4	16.4	42.9	105.2	38.9	0.66	7.54
Other Excluding Natural Gas	785	41.9	33.9	17.9	36.6	70.8	6.1	0.33	7.78
Buildings without Cooling	435	42.4	89.1	17.2	37.9	72.5	3.4	0.33	7.79
Water-Heating Energy Sources									
Natural Gas	1,013	50.8	40.9	20.2	41.5	81.1	7.7	0.38	7.58
Other Excluding Natural Gas	515	28.5	23.5	15.0	32.8	62.8	4.3	0.24	8.37
Bldgs without Water Heating	210	23.9	42.7	11.7	25.6	41.0	1.9	0.21	8.98
Cooking Energy Sources									
Natural Gas	1,819	53.8	43.7	30.9	68.6	173.1	13.5	0.40	7.41
Other Excluding Natural Gas	1,273	42.4	38.6	21.8	36.0	68.0	9.4	0.31	7.37
Buildings without Cooking	494	36.4	30.7	15.7	31.9	61.4	4.0	0.30	8.16
Energy End Uses (more than one may apply)									
Buildings with Space Heating	790	43.1	35.9	18.4	37.4	70.9	6.1	0.33	7.76
Buildings with Cooling	820	43.0	34.8	17.9	36.6	70.9	6.4	0.33	7.77
Buildings with Water Heating	853	44.1	35.8	19.1	38.9	74.5	6.6	0.34	7.73
Buildings with Cooking	1,715	51.8	42.9	26.6	56.2	144.0	12.7	0.38	7.41
Buildings with Manufacturing	1,402	42.3	40.1	13.3	37.4	62.6	10.3	0.31	7.37
Buildings with Electricity Generation	4,964	49.8	33.8	20.7	41.6	72.0	35.6	0.36	7.18

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

	Natural Gas Consumption						Natural Gas Expenditures		
				Distribution of Building-Level Intensities (cubic feet/square foot)					
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	per Worker (thousand cubic feet)	25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)
All Buildings*	782	43.0	36.0	17.6	37.1	70.9	6.1	0.33	7.77
Percent of Floorspace Heated									
Not Heated	Q	Q	Q	5.9	12.9	54.7	Q	Q	8.40
1 to 50	408	23.5	34.9	6.9	20.2	40.9	3.6	0.21	8.81
51 to 99	820	43.6	37.2	14.5	29.2	66.8	6.6	0.35	8.00
100	834	45.4	35.8	21.5	40.4	75.1	6.4	0.35	7.66
Percent of Floorspace Cooled									
Not Cooled	435	42.4	89.1	17.2	37.9	72.5	3.4	0.33	7.79
1 to 50	729	36.1	52.5	16.5	31.5	62.6	5.8	0.29	7.91
51 to 99	1,088	45.0	36.1	17.0	34.8	65.0	8.3	0.34	7.64
100	774	46.5	29.3	19.3	40.4	76.6	6.0	0.36	7.76
Heating Equipment (more than one may apply)									
Heat Pumps	1,431	39.1	31.5	11.8	32.0	52.5	11.9	0.32	8.30
Packaged Heat Pumps	1,584	40.8	28.8	11.3	36.0	55.5	13.0	0.34	8.23
Split-System Heat Pumps	813	28.2	25.8	9.3	23.0	41.5	7.2	0.25	8.82
Individual Room Heat Pumps	2,561	37.0	33.4	19.4	36.0	60.3	20.5	0.30	7.99
Furnaces	497	42.7	44.3	19.7	36.2	67.4	3.9	0.33	7.80
Individual Space Heaters	857	41.0	38.1	19.2	32.3	59.1	6.3	0.30	7.39
District Heat	1,582	16.6	5.7	1.1	2.8	9.7	11.2	0.12	7.08
Boilers	2,334	55.5	47.6	29.7	54.4	91.5	17.2	0.41	7.35
Packaged Heating Units	962	41.4	34.5	14.3	32.8	75.6	7.6	0.33	7.93
Other	539	25.5	26.7	17.2	30.8	55.8	4.3	0.20	8.01
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	582	47.5	43.6	18.8	37.0	68.9	4.4	0.36	7.56
Heat Pumps	1,290	38.9	31.4	12.3	32.0	55.7	10.7	0.32	8.32
Packaged Heat Pumps	1,405	42.1	29.4	11.8	33.5	60.0	11.6	0.35	8.24
Split-System Heat Pumps	727	29.0	26.9	9.3	26.8	41.5	6.4	0.26	8.84
Individual Room Heat Pumps	2,638	34.7	31.8	19.4	36.0	60.3	21.1	0.28	7.99
Individual Air Conditioners	1,015	43.7	48.0	17.5	37.4	68.6	7.8	0.33	7.64
District Chilled Water	1,956	19.2	6.0	1.7	6.6	43.7	14.1	0.14	7.19
Central Chillers	6,235	53.4	37.1	21.1	41.7	76.4	44.4	0.38	7.12
Packaged Air Conditioning Units	947	44.4	38.3	18.2	36.0	73.6	7.4	0.34	7.77
Swamp Coolers	1,001	61.7	62.5	19.2	36.2	92.0	6.7	0.41	6.66
Other	3,126	62.8	45.9	11.9	30.9	112.3	23.2	0.47	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	800	47.8	44.7	19.2	38.0	68.2	6.2	0.37	7.70
Cooling	865	47.1	40.4	16.5	38.5	70.8	6.6	0.36	7.62
Water Heating Equipment									
Centralized System	763	46.9	41.1	19.8	39.9	76.8	6.0	0.37	7.86
Distributed System	564	32.7	32.5	14.6	36.2	68.0	4.5	0.26	8.06
Combination of Centralized and Distributed System	2,941	46.0	26.8	18.8	39.6	73.3	20.9	0.33	7.12

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

	Natural Gas Consumption						Natural Gas Expenditures		
				Distribution of Building-Level Intensities (cubic feet/square foot)					
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	per Worker (thousand cubic feet)	25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)
All Buildings*	782	43.0	36.0	17.6	37.1	70.9	6.1	0.33	7.77
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	1,715	51.8	42.8	26.6	56.1	144.0	12.7	0.38	7.41
Activities with Large Amounts of Hot Water	2,235	56.3	50.2	27.2	62.9	141.0	16.0	0.40	7.16
Separate Computer Area	2,276	41.2	29.9	14.4	30.9	58.2	16.7	0.30	7.34
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	2,369	47.2	29.2	19.7	37.9	83.8	17.5	0.35	7.37
Economizer Cycle	2,242	46.9	30.4	18.9	41.8	85.7	16.4	0.34	7.30
HVAC Maintenance	1,021	43.5	34.6	17.9	37.4	70.1	7.8	0.33	7.68
Energy Management and Control System (EMCS)	2,979	39.8	29.7	14.7	39.7	70.8	21.3	0.29	7.17
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	726	40.2	35.3	17.0	35.9	68.0	5.7	0.32	7.85
Cooling	745	39.7	31.4	16.9	35.8	69.7	5.8	0.31	7.83
Lighting	594	39.0	30.9	17.8	37.3	70.1	4.8	0.31	8.01
Office Equipment	535	36.5	35.4	15.6	33.6	63.6	4.2	0.29	7.94
Annual Consumption (hundred cubic feet)									
1,000 or Less	53	8.2	8.8	6.5	15.2	30.3	0.6	0.09	11.60
1,001 to 5,000	239	24.8	22.1	22.3	39.7	69.7	2.2	0.23	9.20
5,001 to 10,000	707	38.3	23.3	35.0	63.8	146.5	6.0	0.33	8.54
10,001 to 25,000	1,503	44.9	36.5	38.9	73.6	156.1	12.0	0.36	8.02
25,001 to 50,000	3,348	51.3	50.6	46.4	75.9	150.1	25.5	0.39	7.61
50,001 to 100,000	7,040	53.2	50.8	40.1	73.3	130.4	48.4	0.37	6.87
Over 100,000	24,743	86.8	69.1	59.4	94.4	141.6	167.0	0.59	6.75
Provider of Natural Gas (more than one may apply)									
Local Utility	701	41.2	34.9	17.2	36.2	70.2	5.6	0.33	7.95
Some Other Provider	2,521	59.1	44.7	27.2	57.6	94.8	17.0	0.40	6.73

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 3.8 percent of total natural gas consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use natural gas.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Total Natural Gas Consumption (billion cubic feet)				Total Floorspace of Buildings Using Natural Gas (million square feet)				Natural Gas Energy Intensity (cubic feet/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	415	683	460	311	9,181	13,163	13,311	7,813	45.2	51.9	34.6	39.8
Building Floorspace (Square Feet)												
1,001 to 5,000	46	91	65	40	513	1,074	869	628	90.4	84.9	74.9	63.7
5,001 to 10,000	38	57	64	44	621	959	1,349	763	61.3	59.0	47.5	57.2
10,001 to 25,000	51	119	70	60	1,173	2,436	2,066	1,378	43.9	48.7	33.8	43.6
25,001 to 50,000	45	115	47	44	977	2,262	1,589	1,196	45.6	50.7	29.4	36.6
50,001 to 100,000	58	94	59	25	1,645	1,930	2,153	955	35.5	48.7	27.3	26.3
100,001 to 200,000	65	86	67	24	1,706	1,777	2,241	921	38.3	48.4	29.7	25.6
200,001 to 500,000	60	71	41	28	1,588	1,673	1,419	999	37.6	42.3	28.6	27.5
Over 500,000	51	51	49	Q	956	1,052	1,625	973	53.4	48.8	30.0	48.3
Principal Building Activity												
Education	51	113	47	48	1,347	2,184	2,291	1,222	38.2	51.8	20.6	39.6
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	Q	50	87	Q	Q	379	623	Q	Q	133.2	139.3	Q
Health Care	47	64	87	38	464	657	987	436	100.9	97.0	88.4	86.1
Inpatient	41	50	80	27	351	395	812	247	117.4	127.2	98.6	108.1
Outpatient	Q	14	Q	Q	Q	262	Q	Q	Q	51.5	Q	Q
Lodging	35	66	55	52	982	1,015	1,338	920	Q	65.0	41.1	56.6
Retail (Other Than Mall)	16	37	23	12	385	688	1,148	645	42.3	54.1	20.4	18.3
Office	89	104	33	35	2,301	2,447	1,915	1,544	38.8	42.3	17.2	23.0
Public Assembly	16	43	22	18	712	770	699	542	Q	56.4	32.1	32.4
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	15	37	20	8	384	899	923	424	38.4	41.4	21.7	18.1
Service	23	57	28	Q	368	934	822	Q	62.2	61.3	34.6	Q
Warehouse and Storage	25	61	20	Q	985	1,921	1,617	971	25.8	31.9	12.1	Q
Other	45	Q	Q	Q	531	Q	Q	Q	85.5	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed												
Before 1920	42	66	Q	Q	950	1,175	Q	Q	43.8	56.4	Q	Q
1920 to 1945	88	94	23	18	1,845	1,344	790	699	47.9	69.6	28.8	25.7
1946 to 1959	56	85	46	24	1,406	1,681	953	620	39.5	50.5	48.1	38.3
1960 to 1969	58	94	50	46	1,276	1,819	1,428	1,113	45.4	51.8	35.1	40.9
1970 to 1979	55	138	74	74	1,162	2,737	2,265	1,494	47.6	50.4	32.5	49.4
1980 to 1989	40	77	89	75	1,016	1,342	2,520	1,592	39.6	57.7	35.5	47.4
1990 to 1999	44	94	121	46	949	2,126	3,708	1,395	46.2	44.1	32.6	33.0
2000 to 2003	32	35	39	16	576	939	1,261	654	56.3	37.6	31.3	23.8
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	Q	235	N	122	Q	4,382	N	2,102	53.3	53.6	N	57.9
5,500-7,000 HDD	188	405	N	66	3,692	7,947	N	1,211	51.0	51.0	N	54.1
4,000-5,499 HDD	165	44	104	14	4,328	834	2,508	443	38.1	52.3	41.5	30.8
Fewer than 4,000 HDD	N	N	249	99	N	N	6,748	3,761	N	N	36.8	26.2
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	107	11	N	N	4,054	296	N	N	26.5	37.9
Number of Floors												
One	101	209	192	142	2,061	3,915	5,853	3,111	48.9	53.5	32.8	45.5
Two	89	210	98	79	1,972	4,485	2,781	2,203	45.3	46.9	35.2	35.8
Three	60	109	47	17	1,464	2,239	1,252	714	41.3	48.6	37.9	23.7
Four to Nine	112	125	87	42	2,539	2,075	2,036	1,019	44.1	60.4	42.9	41.4
Ten or More	52	29	36	Q	1,145	449	1,389	766	45.8	65.6	25.7	Q

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

	Total Natural Gas Consumption (billion cubic feet)				Total Floorspace of Buildings Using Natural Gas (million square feet)				Natural Gas Energy Intensity (cubic feet/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	415	683	460	311	9,181	13,163	13,311	7,813	45.2	51.9	34.6	39.8
Number of Workers (main shift)												
Fewer than 5	49	121	55	39	1,191	2,608	1,974	1,249	41.0	46.3	27.9	31.4
5 to 9	40	63	54	35	693	1,231	1,464	695	58.1	51.0	36.7	50.8
10 to 19	46	94	60	35	1,258	1,769	1,533	758	36.9	53.2	38.9	45.7
20 to 49	65	157	97	63	1,955	2,620	2,282	1,355	33.4	59.9	42.7	46.6
50 to 99	58	91	46	39	1,183	1,990	1,905	1,078	48.8	45.9	24.2	35.9
100 to 249	57	75	68	27	1,118	1,407	1,574	1,028	51.0	53.3	43.4	26.6
250 or More	100	82	80	72	1,783	1,538	2,579	1,650	55.8	53.5	30.9	43.9
Weekly Operating Hours												
Fewer than 40	Q	49	17	22	Q	1,420	764	593	Q	34.7	21.7	37.6
40 to 48	43	109	50	40	1,346	2,107	2,262	1,198	31.9	51.6	22.0	33.6
49 to 60	80	160	74	50	2,148	3,548	2,813	1,682	37.1	45.0	26.2	29.6
61 to 84	75	111	69	50	1,434	2,205	2,402	1,425	52.3	50.2	28.8	35.1
85 to 167	38	106	71	34	958	1,626	1,613	1,028	39.9	65.4	43.8	33.0
Open Continuously	163	149	180	114	2,812	2,257	3,455	1,886	58.1	65.9	52.2	60.6
Ownership and Occupancy												
Nongovernment Owned	348	513	367	230	7,646	9,795	9,888	5,988	45.5	52.3	37.1	38.4
Owner Occupied	201	253	145	87	4,156	4,972	4,873	2,547	48.4	51.0	29.8	34.0
Nonowner Occupied	144	248	221	143	3,302	4,276	4,956	3,352	43.5	58.1	44.6	42.5
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	67	171	93	81	1,535	3,368	3,422	1,825	43.9	50.7	27.3	44.1
Federal	Q	Q	6	Q	Q	Q	356	Q	Q	Q	16.9	Q
State	Q	27	36	22	Q	499	1,205	463	Q	54.6	30.3	48.0
Local	53	132	51	46	1,136	2,497	1,862	1,135	47.1	53.1	27.3	40.3
Vacancy Status												
Completely Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	91	113	55	49	2,146	2,450	2,410	1,440	42.4	46.1	22.8	34.2
Not At All Vacant	317	554	404	259	6,754	10,049	10,821	6,221	47.0	55.1	37.4	41.7
Number of Establishments												
One	287	507	366	258	5,740	9,415	9,850	5,513	50.1	53.9	37.1	46.8
2 to 5	69	127	61	40	1,877	2,420	1,945	1,351	37.0	52.7	31.3	29.4
6 to 10	20	15	Q	6	474	353	Q	227	41.8	41.5	Q	26.0
11 to 20	Q	Q	Q	Q	Q	Q	391	Q	Q	Q	28.7	Q
More than 20	Q	Q	15	Q	Q	Q	756	Q	Q	Q	20.5	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Exterior Wall Material												
Brick, Stone or Stucco	280	410	256	147	5,607	7,366	7,125	3,453	50.0	55.7	35.9	42.5
Concrete (Block or Poured)	65	137	91	47	1,623	2,466	2,096	1,138	39.8	55.7	43.3	41.6
Concrete Panels	Q	59	30	61	Q	1,072	1,538	1,535	Q	54.9	19.5	39.5
Siding or Shingles	17	28	25	13	510	684	534	269	32.8	40.9	46.2	49.8
Metal Panels	Q	30	43	34	Q	1,050	1,541	986	Q	28.7	27.8	34.8
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	2.9	Q

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

	Total Natural Gas Consumption (billion cubic feet)				Total Floorspace of Buildings Using Natural Gas (million square feet)				Natural Gas Energy Intensity (cubic feet/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	415	683	460	311	9,181	13,163	13,311	7,813	45.2	51.9	34.6	39.8
Predominant Roof Material												
Built-Up	139	260	184	137	2,935	4,573	4,450	3,250	47.3	56.9	41.4	42.1
Shingles (Not Wood)	64	121	68	48	1,169	2,419	1,938	993	55.1	50.0	35.0	48.0
Metal Surfacing	Q	62	67	45	Q	1,542	2,726	1,127	Q	40.0	24.5	40.0
Synthetic or Rubber	165	193	115	52	3,308	3,767	3,291	1,472	49.8	51.3	35.0	35.5
Slate or Tile	Q	16	16	16	Q	243	484	468	Q	64.8	32.5	35.2
Wooden Materials	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)												
Any Type of Renovation Since 1980	172	278	123	90	3,567	4,692	2,809	2,202	48.2	59.1	43.8	41.1
Addition or Annex	61	116	67	51	1,239	1,793	1,122	883	49.3	64.8	59.9	57.6
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	135	196	81	70	2,980	3,309	2,011	1,773	45.4	59.2	40.1	39.6
Wall or Roof Replacement	66	113	45	46	1,979	2,010	1,226	1,113	33.2	56.0	37.0	41.6
Interior Wall Re-Configuration	87	134	54	56	2,005	2,347	1,417	1,250	43.6	56.9	38.2	45.0
HVAC Equipment Upgrade	114	188	88	63	2,265	3,003	1,713	1,501	50.2	62.8	51.3	41.9
Lighting Upgrade	113	159	54	59	2,582	2,703	1,354	1,465	43.8	58.8	39.8	40.5
Window Replacement	84	99	22	30	2,145	1,657	547	650	39.3	59.9	39.4	46.1
Plumbing System Upgrade	82	110	41	45	1,913	1,639	912	1,252	43.1	67.0	45.2	35.6
Insulation Upgrade	34	53	25	17	883	1,090	511	476	38.0	48.5	48.2	34.9
Other Renovation	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	127	199	87	83	3,072	4,065	3,013	1,971	41.2	49.1	29.0	42.3
Building Newer than 1980	117	206	250	137	2,542	4,406	7,489	3,641	45.9	46.9	33.3	37.6
Energy Sources (more than one may apply)												
Electricity	415	683	460	311	9,181	13,162	13,306	7,813	45.2	51.9	34.6	39.8
Natural Gas	415	683	460	311	9,181	13,163	13,311	7,813	45.2	51.9	34.6	39.8
Fuel Oil	148	136	131	76	3,714	2,123	2,962	1,584	39.8	64.2	44.3	48.3
District Heat	Q	14	14	Q	666	680	811	Q	21.7	21.0	16.7	Q
District Chilled Water	Q	Q	14	Q	Q	Q	694	Q	Q	Q	20.1	Q
Propane	Q	35	Q	Q	Q	877	787	632	Q	39.9	Q	42.6
Other	Q	20	Q	Q	Q	377	Q	Q	Q	53.0	Q	Q
Space-Heating Energy Sources												
Natural Gas	393	668	410	279	7,238	12,180	10,693	6,848	54.3	54.8	38.3	40.7
Natural Gas Main	367	630	377	262	6,439	11,321	9,299	5,911	57.0	55.7	40.6	44.3
Natural Gas Secondary	26	37	32	17	800	858	1,393	938	32.5	43.3	23.2	18.5
Other Excluding Natural Gas	20	14	49	19	1,938	951	2,413	713	Q	15.2	20.4	26.8
Buildings without Heating	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Primary Space-Heating Energy Source												
Electricity	24	45	69	33	675	1,185	2,954	1,348	35.3	38.1	23.5	24.4
Natural Gas	367	630	377	262	6,439	11,321	9,299	5,911	57.0	55.7	40.6	44.3
Fuel Oil	16	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Heat	Q	Q	Q	Q	526	Q	741	Q	8.6	Q	12.2	Q
Propane	N	N	Q	N	N	N	Q	N	N	N	Q	N
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Total Natural Gas Consumption (billion cubic feet)				Total Floorspace of Buildings Using Natural Gas (million square feet)				Natural Gas Energy Intensity (cubic feet/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	415	683	460	311	9,181	13,163	13,311	7,813	45.2	51.9	34.6	39.8
Cooling Energy Sources												
Natural Gas	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other Excluding Natural Gas	341	614	440	282	8,203	11,834	12,979	6,989	41.6	51.9	33.9	40.3
Buildings without Cooling	31	46	Q	20	625	1,074	Q	556	49.9	43.3	Q	36.4
Water-Heating Energy Sources												
Natural Gas	317	513	363	270	5,601	8,799	8,306	6,114	56.6	58.3	43.7	44.2
Other Excluding Natural Gas	85	151	81	33	3,159	3,685	4,257	1,212	27.0	41.0	19.1	27.2
Bldgs without Water Heating	Q	20	16	7	Q	679	748	487	Q	29.1	20.9	15.3
Cooking Energy Sources												
Natural Gas	175	262	259	135	3,580	3,965	5,480	2,412	48.7	66.0	47.3	55.9
Other Excluding Natural Gas	33	61	27	15	563	1,237	946	473	57.9	49.6	28.9	32.3
Buildings without Cooking	208	360	174	161	5,038	7,961	6,885	4,928	41.3	45.3	25.2	32.6
Energy End Uses (more than one may apply)												
Buildings with Space Heating	413	682	459	298	9,176	13,130	13,106	7,561	45.0	51.9	35.0	39.4
Buildings with Cooling	384	637	454	291	8,556	12,090	13,120	7,257	44.9	52.7	34.6	40.0
Buildings with Water Heating	402	664	445	303	8,761	12,484	12,563	7,326	45.9	53.2	35.4	41.4
Buildings with Cooking	207	323	287	150	4,143	5,202	6,426	2,885	50.0	62.1	44.6	52.1
Buildings with Manufacturing	29	32	14	Q	516	711	524	551	57.2	45.6	27.3	38.5
Buildings with Electricity Generation	136	165	133	83	2,554	2,901	3,127	1,820	53.3	57.0	42.6	45.7
Percent of Floorspace Heated												
Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	24	23	29	18	808	876	1,281	1,041	30.0	26.3	22.7	17.2
51 to 99	65	79	60	55	1,199	1,336	1,858	1,573	54.4	59.3	32.3	35.3
100	324	580	370	225	7,169	10,919	9,966	4,948	45.1	53.1	37.1	45.4
Percent of Floorspace Cooled												
Not Cooled	31	46	Q	20	625	1,074	Q	556	49.9	43.3	Q	36.4
1 to 50	119	187	69	63	3,222	3,954	3,025	1,931	37.0	47.3	22.8	32.6
51 to 99	118	177	79	63	2,507	3,111	2,362	1,753	47.2	57.0	33.3	36.1
100	146	273	307	164	2,828	5,025	7,733	3,573	51.8	54.3	39.7	46.0
Heating Equipment (more than one may apply)												
Heat Pumps	51	32	92	43	924	754	2,758	1,117	55.3	42.3	33.2	38.1
Packaged Heat Pumps	27	24	53	Q	549	563	1,560	651	49.9	42.9	33.7	Q
Split-System Heat Pumps	Q	Q	25	8	Q	Q	982	279	Q	Q	25.9	29.9
Individual Room Heat Pumps	Q	Q	28	Q	Q	Q	918	Q	Q	Q	30.5	Q
Furnaces	117	298	143	95	2,355	6,265	4,303	2,381	49.7	47.5	33.3	39.9
Individual Space Heaters	93	155	60	61	1,992	3,362	2,100	1,515	46.5	46.0	28.4	40.2
District Heat	Q	Q	13	Q	548	Q	800	Q	16.3	Q	15.8	Q
Boilers	269	365	207	167	5,142	5,729	3,941	3,362	52.4	63.8	52.5	49.6
Packaged Heating Units	134	167	190	74	2,520	3,209	5,338	2,551	53.1	52.0	35.5	29.0
Other	Q	22	9	Q	Q	562	716	Q	Q	38.3	13.3	Q

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

	Total Natural Gas Consumption (billion cubic feet)				Total Floorspace of Buildings Using Natural Gas (million square feet)				Natural Gas Energy Intensity (cubic feet/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	415	683	460	311	9,181	13,163	13,311	7,813	45.2	51.9	34.6	39.8
Cooling Equipment (more than one may apply)												
Residential-Type Central Air Conditioners	101	172	71	36	1,937	3,032	2,171	842	51.9	56.6	32.7	43.0
Heat Pumps	55	36	93	42	996	803	2,800	1,232	55.7	44.9	33.2	34.3
Packaged Heat Pumps	32	28	Q	Q	620	593	1,512	627	51.1	46.5	33.9	Q
Split-System Heat Pumps	Q	Q	27	Q	Q	Q	1,003	Q	Q	Q	27.0	Q
Individual Room Heat Pumps	Q	Q	29	11	Q	Q	958	598	Q	Q	30.1	18.5
Individual Air Conditioners	111	164	74	48	2,742	2,835	2,252	1,285	40.5	58.0	33.0	37.7
District Chilled Water	Q	Q	14	Q	Q	Q	694	Q	Q	Q	20.1	Q
Central Chillers	118	157	134	76	1,523	2,498	3,433	1,646	77.6	62.9	39.0	46.4
Packaged Air Conditioning Units	244	391	262	160	5,309	7,199	7,044	4,254	46.0	54.3	37.1	37.7
Swamp Coolers	Q	Q	Q	67	Q	Q	Q	1,077	Q	25.9	Q	62.5
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)												
Heating	121	240	127	98	2,791	4,392	3,081	2,011	43.5	54.8	41.2	48.6
Cooling	167	308	155	125	4,177	5,122	4,092	2,657	40.0	60.2	37.9	47.2
Water Heating Equipment												
Centralized System	286	430	281	192	5,521	8,122	7,626	4,084	51.9	52.9	36.9	46.9
Distributed System	51	101	63	31	1,819	2,100	2,288	1,352	28.2	48.2	27.5	23.2
Combination of Centralized and Distributed System	65	133	100	80	1,421	2,263	2,649	1,890	45.6	58.6	37.8	42.5
Energy-Related Space Functions (more than one may apply)												
Commercial Food Preparation	207	323	287	149	4,143	5,202	6,426	2,873	50.0	62.1	44.6	52.0
Activities with Large Amounts of Hot Water	168	308	256	171	3,304	4,701	5,214	2,804	50.8	65.5	49.1	61.0
Separate Computer Area	238	283	191	136	4,882	5,605	6,290	3,838	48.7	50.5	30.4	35.5
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System	159	240	175	114	3,002	4,347	4,588	2,656	52.9	55.3	38.1	43.0
Economizer Cycle	178	296	167	140	3,379	5,231	4,425	3,620	52.6	56.6	37.8	38.6
HVAC Maintenance	366	567	400	277	8,148	10,784	11,127	6,926	44.9	52.5	36.0	39.9
Energy Management and Control System (EMCS)	101	171	111	80	2,291	3,257	3,741	2,337	44.2	52.4	29.6	34.4
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]												
Heating	305	447	296	206	7,022	9,184	9,217	5,757	43.4	48.7	32.1	35.8
Cooling	283	435	310	220	6,859	8,746	9,914	5,919	41.3	49.8	31.3	37.2
Lighting	240	510	272	190	5,902	10,070	9,418	5,681	40.7	50.7	28.9	33.5
Office Equipment	106	198	80	78	3,001	4,439	2,970	2,259	35.2	44.7	27.0	34.4

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

	Total Natural Gas Consumption (billion cubic feet)				Total Floorspace of Buildings Using Natural Gas (million square feet)				Natural Gas Energy Intensity (cubic feet/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	415	683	460	311	9,181	13,163	13,311	7,813	45.2	51.9	34.6	39.8
Annual Consumption (hundred cubic feet)												
1,000 or Less	4	11	11	9	884	698	1,610	1,145	Q	16.1	7.0	7.9
1,001 to 5,000	49	85	70	38	1,633	2,770	3,420	1,909	29.7	30.6	20.5	20.1
5,001 to 10,000	46	97	59	37	1,010	1,983	2,255	1,005	45.1	48.9	26.3	37.3
10,001 to 25,000	77	119	81	71	1,926	2,232	2,162	1,447	39.8	53.5	37.5	49.4
25,001 to 50,000	53	114	64	52	1,371	2,135	1,258	770	38.7	53.4	51.2	68.0
50,001 to 100,000	43	85	55	27	810	1,450	1,092	618	53.3	58.6	50.7	44.5
Over 100,000	144	172	118	75	1,546	1,895	1,514	919	93.3	90.9	78.2	81.2
Provider of Natural Gas (more than one may apply)												
Local Utility	327	568	412	273	7,977	11,278	12,067	7,040	41.0	50.4	34.2	38.8
Some Other Provider	113	155	59	50	1,562	2,378	1,579	853	72.2	65.1	37.3	58.9

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 3.8 percent of total natural gas consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use natural gas.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Total Natural Gas Expenditures (million dollars)				Natural Gas Expenditures (dollars)							
					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*	3,553	4,844	3,866	2,261	8.56	7.09	8.40	7.28	0.39	0.37	0.29	0.29
Building Floorspace (Square Feet)												
1,001 to 5,000	456	782	599	317	9.84	8.57	9.21	7.94	0.89	0.73	0.69	0.51
5,001 to 10,000	348	427	582	332	9.15	7.54	9.08	7.60	0.56	0.45	0.43	0.44
10,001 to 25,000	502	945	656	422	9.74	7.96	9.41	7.02	0.43	0.39	0.32	0.31
25,001 to 50,000	408	738	402	317	9.14	6.44	8.60	7.24	0.42	0.33	0.25	0.27
50,001 to 100,000	531	662	493	182	9.08	7.04	8.39	7.26	0.32	0.34	0.23	0.19
100,001 to 200,000	454	573	555	156	6.94	6.66	Q	6.59	0.27	0.32	0.25	0.17
200,001 to 500,000	457	423	286	178	7.64	5.97	7.05	6.46	0.29	0.25	0.20	0.18
Over 500,000	Q	295	293	Q	7.80	5.75	6.02	7.60	0.42	0.28	0.18	Q
Principal Building Activity												
Education	412	740	397	339	8.02	6.55	8.42	7.01	0.31	0.34	0.17	0.28
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	Q	355	747	Q	Q	7.04	8.61	Q	Q	0.94	1.20	Q
Health Care	310	381	630	217	6.62	5.98	7.23	5.79	0.67	0.58	0.64	0.50
Inpatient	255	279	565	143	6.19	5.55	7.05	5.36	0.73	0.71	0.69	0.58
Outpatient	Q	103	Q	Q	Q	7.60	Q	Q	Q	0.39	Q	Q
Lodging	295	419	447	Q	8.44	6.34	8.12	8.06	Q	0.41	0.33	0.46
Retail (Other Than Mall)	141	274	212	91	8.69	7.38	9.06	7.73	0.37	0.40	0.18	0.14
Office	827	826	287	261	9.27	7.97	8.71	7.34	0.36	0.34	0.15	0.17
Public Assembly	142	315	188	129	9.11	7.26	8.39	7.36	Q	0.41	0.27	0.24
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	142	285	176	61	9.61	7.66	8.80	7.95	0.37	0.32	0.19	0.14
Service	Q	438	260	Q	Q	7.66	9.16	Q	Q	0.47	0.32	Q
Warehouse and Storage	234	399	187	Q	9.19	6.50	9.57	7.07	0.24	0.21	0.12	0.16
Other	355	Q	Q	Q	7.81	Q	Q	Q	0.67	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed												
Before 1920	390	502	Q	Q	9.37	7.58	Q	Q	0.41	0.43	Q	Q
1920 to 1945	783	582	208	135	8.87	6.23	9.14	7.50	0.42	0.43	0.26	0.19
1946 to 1959	427	635	386	162	7.69	7.49	Q	6.83	0.30	0.38	0.41	0.26
1960 to 1969	509	640	407	316	8.80	6.80	8.13	6.93	0.40	0.35	0.29	0.28
1970 to 1979	473	927	555	511	8.55	6.71	7.53	6.94	0.41	0.34	0.24	0.34
1980 to 1989	360	585	755	570	8.94	7.56	8.45	7.55	0.35	0.44	0.30	0.36
1990 to 1999	340	675	1,075	361	7.75	7.20	8.90	7.85	0.36	0.32	0.29	0.26
2000 to 2003	271	296	333	112	8.37	8.38	8.45	7.21	0.47	0.32	0.26	0.17
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	Q	1,814	N	763	8.07	7.72	N	6.27	0.43	0.41	N	0.36
5,500-7,000 HDD	1,593	2,788	N	521	8.46	6.89	N	7.94	0.43	0.35	N	0.43
4,000-5,499 HDD	1,461	242	906	93	8.85	5.55	8.69	6.81	0.34	0.29	0.36	0.21
Fewer than 4,000 HDD	N	N	2,116	804	N	N	8.52	8.15	N	N	0.31	0.21
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	844	81	N	N	7.85	7.25	N	N	0.21	0.28
Number of Floors												
One	927	1,670	1,753	1,055	9.20	7.97	9.14	7.46	0.45	0.43	0.30	0.34
Two	754	1,477	846	551	8.43	7.02	8.64	7.00	0.38	0.33	0.30	0.25
Three	549	742	395	129	9.08	6.82	Q	7.64	0.38	0.33	0.32	0.18
Four to Nine	878	782	637	263	7.84	6.24	7.28	6.25	0.35	0.38	0.31	0.26
Ten or More	445	173	235	Q	8.49	5.86	6.59	8.35	0.39	0.38	0.17	Q

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

	Total Natural Gas Expenditures (million dollars)				Natural Gas Expenditures (dollars) per Thousand Cubic Feet				Natural Gas Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	3,553	4,844	3,866	2,261	8.56	7.09	8.40	7.28	0.39	0.37	0.29	0.29
Number of Workers (main shift)												
Fewer than 5	469	993	530	316	9.59	8.21	9.62	8.03	0.39	0.38	0.27	0.25
5 to 9	396	508	500	262	9.82	8.09	9.31	7.42	0.57	0.41	0.34	0.38
10 to 19	404	662	531	245	8.70	7.03	8.90	7.07	0.32	0.37	0.35	0.32
20 to 49	602	1,081	811	457	9.21	6.89	8.32	7.23	0.31	0.41	0.36	0.34
50 to 99	495	630	386	269	8.59	6.89	8.36	6.96	0.42	0.32	0.20	0.25
100 to 249	400	479	578	195	7.02	6.39	8.45	7.14	0.36	0.34	0.37	0.19
250 or More	787	492	530	518	7.90	5.98	6.65	7.16	0.44	0.32	0.21	0.31
Weekly Operating Hours												
Fewer than 40	Q	400	159	180	Q	8.13	9.61	8.05	Q	0.28	0.21	0.30
40 to 48	407	838	493	279	9.48	7.70	9.90	6.92	0.30	0.40	0.22	0.23
49 to 60	741	1,151	665	371	9.29	7.21	9.02	7.44	0.35	0.32	0.24	0.22
61 to 84	649	792	577	356	8.65	7.15	8.34	7.12	0.45	0.36	0.24	0.25
85 to 167	330	719	608	249	8.61	6.76	8.61	7.35	0.34	0.44	0.38	0.24
Open Continuously	1,273	943	1,364	826	7.79	6.35	7.57	7.23	0.45	0.42	0.39	0.44
Ownership and Occupancy												
Nongovernment Owned	3,023	3,669	3,122	1,745	8.69	7.16	8.51	7.58	0.40	0.37	0.32	0.29
Owner Occupied	1,733	1,762	1,226	641	8.62	6.95	8.44	7.40	0.42	0.35	0.25	0.25
Nonowner Occupied	1,265	1,820	1,888	1,098	8.80	7.33	8.55	7.70	0.38	0.43	0.38	0.33
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	530	1,175	744	516	7.88	6.88	7.98	6.41	0.35	0.35	0.22	0.28
Federal	Q	Q	34	Q	Q	Q	5.73	Q	Q	Q	Q	Q
State	Q	219	287	168	Q	8.04	7.88	7.53	Q	0.44	0.24	0.36
Local	406	887	423	278	7.58	6.70	8.32	6.07	0.36	0.36	0.23	0.24
Vacancy Status												
Completely Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	839	861	452	325	9.22	7.63	8.22	6.60	0.39	0.35	0.19	0.23
Not At All Vacant	2,650	3,855	3,405	1,918	8.35	6.96	8.42	7.40	0.39	0.38	0.31	0.31
Number of Establishments												
One	2,391	3,580	3,100	1,879	8.32	7.06	8.48	7.29	0.42	0.38	0.31	0.34
2 to 5	642	943	507	285	9.24	7.39	8.33	7.16	0.34	0.39	0.26	0.21
6 to 10	175	101	Q	43	8.85	6.89	Q	7.28	0.37	0.29	Q	0.19
11 to 20	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	121	Q	Q	Q	7.80	Q	Q	Q	0.16	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Exterior Wall Material												
Brick, Stone or Stucco	2,352	2,875	2,115	1,061	8.39	7.01	8.27	7.23	0.42	0.39	0.30	0.31
Concrete (Block or Poured)	567	945	785	325	8.77	6.88	8.66	6.86	0.35	0.38	0.37	0.29
Concrete Panels	Q	440	220	Q	Q	7.47	7.31	7.62	Q	0.41	0.14	0.30
Siding or Shingles	175	228	226	107	10.46	8.15	9.16	7.95	0.34	0.33	0.42	0.40
Metal Panels	Q	247	402	247	Q	8.19	9.39	7.19	Q	0.23	0.26	0.25
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	0.03	Q

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

	Total Natural Gas Expenditures (million dollars)				Natural Gas Expenditures (dollars) per Thousand Cubic Feet				Natural Gas Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	3,553	4,844	3,866	2,261	8.56	7.09	8.40	7.28	0.39	0.37	0.29	0.29
Predominant Roof Material												
Built-Up	1,166	1,827	1,523	1,013	8.40	7.02	8.26	7.40	0.40	0.40	0.34	0.31
Shingles (Not Wood)	623	877	623	358	9.68	7.25	9.19	7.51	0.53	0.36	0.32	0.36
Metal Surfacing	Q	445	618	328	Q	7.21	9.26	7.27	Q	0.29	0.23	0.29
Synthetic or Rubber	1,328	1,369	877	332	8.06	7.08	7.60	6.35	0.40	0.36	0.27	0.23
Slate or Tile	Q	114	136	135	Q	7.25	8.68	8.18	Q	0.47	0.28	0.29
Wooden Materials	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)												
Any Type of Renovation Since 1980	1,443	1,839	950	619	8.39	6.63	7.72	6.85	0.40	0.39	0.34	0.28
Addition or Annex	475	682	489	336	7.79	5.87	7.27	6.61	0.38	0.38	0.44	0.38
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	1,143	1,318	647	479	8.45	6.73	8.03	6.83	0.38	0.40	0.32	0.27
Wall or Roof Replacement	552	758	345	311	8.39	6.74	7.61	6.73	0.28	0.38	0.28	0.28
Interior Wall Re-Configuration	750	887	405	388	8.58	6.65	7.48	6.89	0.37	0.38	0.29	0.31
HVAC Equipment Upgrade	970	1,201	679	430	8.53	6.37	7.73	6.84	0.43	0.40	0.40	0.29
Lighting Upgrade	971	1,075	414	409	8.57	6.76	7.68	6.89	0.38	0.40	0.31	0.28
Window Replacement	726	641	159	208	8.61	6.46	7.38	6.92	0.34	0.39	0.29	0.32
Plumbing System Upgrade	682	733	316	319	8.27	6.68	7.68	7.18	0.36	0.45	0.35	0.26
Insulation Upgrade	296	383	184	115	8.83	7.25	7.49	6.89	0.34	0.35	0.36	0.24
Other Renovation	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	1,139	1,449	752	599	9.00	7.26	8.61	7.18	0.37	0.36	0.25	0.30
Building Newer than 1980	971	1,556	2,163	1,043	8.33	7.54	8.67	7.62	0.38	0.35	0.29	0.29
Energy Sources (more than one may apply)												
Electricity	3,553	4,843	3,866	2,261	8.56	7.09	8.40	7.28	0.39	0.37	0.29	0.29
Natural Gas	3,553	4,844	3,866	2,261	8.56	7.09	8.40	7.28	0.39	0.37	0.29	0.29
Fuel Oil	1,155	842	981	561	7.83	6.18	7.48	7.34	0.31	0.40	0.33	0.35
District Heat	103	Q	107	Q	7.14	6.43	7.92	Q	0.16	0.14	0.13	Q
District Chilled Water	Q	Q	110	Q	Q	Q	7.92	Q	Q	Q	0.16	Q
Propane	Q	244	251	Q	Q	6.98	Q	7.09	Q	0.28	Q	0.30
Other	Q	128	Q	Q	Q	6.41	Q	Q	Q	0.34	Q	Q
Space-Heating Energy Sources												
Natural Gas	3,351	4,719	3,435	2,010	8.53	7.07	8.38	7.20	0.46	0.39	0.32	0.29
Natural Gas Main	3,115	4,450	3,140	1,882	8.49	7.06	8.32	7.19	0.48	0.39	0.34	0.32
Natural Gas Secondary	237	269	295	129	9.11	7.24	9.11	7.41	0.30	0.31	0.21	0.14
Other Excluding Natural Gas	182	116	418	146	9.05	7.98	8.50	7.66	Q	0.12	0.17	0.21
Buildings without Heating	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Primary Space-Heating Energy Source												
Electricity	232	339	611	252	9.74	7.51	8.81	7.66	0.34	0.29	0.21	0.19
Natural Gas	3,115	4,450	3,140	1,882	8.49	7.06	8.32	7.19	0.48	0.39	0.34	0.32
Fuel Oil	136	Q	Q	Q	8.30	Q	Q	Q	Q	Q	Q	Q
District Heat	Q	Q	Q	Q	8.75	Q	8.28	Q	0.07	Q	0.10	Q
Propane	N	N	Q	N	N	N	Q	N	N	N	Q	N
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Total Natural Gas Expenditures (million dollars)				Natural Gas Expenditures (dollars) per Thousand Cubic Feet				Natural Gas Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	3,553	4,844	3,866	2,261	8.56	7.09	8.40	7.28	0.39	0.37	0.29	0.29
Cooling Energy Sources												
Natural Gas	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other Excluding Natural Gas	2,934	4,347	3,704	2,060	8.61	7.08	8.42	7.32	0.36	0.37	0.29	0.29
Buildings without Cooling	247	364	Q	146	7.91	7.84	Q	7.22	0.40	0.34	Q	0.26
Water-Heating Energy Sources												
Natural Gas	2,648	3,555	2,942	1,948	8.35	6.94	8.10	7.20	0.47	0.40	0.35	0.32
Other Excluding Natural Gas	783	1,135	760	255	9.19	7.51	9.35	7.73	0.25	0.31	0.18	0.21
Bldgs without Water Heating	Q	154	164	59	Q	7.81	10.50	7.88	Q	0.23	0.22	0.12
Cooking Energy Sources												
Natural Gas	1,455	1,663	2,051	988	8.34	6.36	7.91	7.32	0.41	0.42	0.37	0.41
Other Excluding Natural Gas	231	457	209	110	7.09	7.45	7.65	7.19	0.41	0.37	0.22	0.23
Buildings without Cooking	1,867	2,724	1,607	1,163	8.97	7.56	9.25	7.24	0.37	0.34	0.23	0.24
Energy End Uses (more than one may apply)												
Buildings with Space Heating	3,533	4,834	3,853	2,156	8.56	7.09	8.40	7.23	0.39	0.37	0.29	0.29
Buildings with Cooling	3,307	4,480	3,816	2,115	8.61	7.03	8.40	7.28	0.39	0.37	0.29	0.29
Buildings with Water Heating	3,431	4,690	3,702	2,202	8.53	7.07	8.33	7.26	0.39	0.38	0.29	0.30
Buildings with Cooking	1,686	2,120	2,259	1,098	8.14	6.56	7.88	7.31	0.41	0.41	0.35	0.38
Buildings with Manufacturing	244	178	136	Q	8.26	5.49	9.52	7.53	0.47	0.25	0.26	0.29
Buildings with Electricity Generation	1,069	1,031	996	623	7.86	6.23	7.47	7.48	0.42	0.36	0.32	0.34
Percent of Floorspace Heated												
Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	214	190	284	144	8.83	8.24	9.73	8.05	0.26	0.22	0.22	0.14
51 to 99	613	569	487	408	9.41	7.19	8.12	7.35	0.51	0.43	0.26	0.26
100	2,706	4,075	3,082	1,605	8.36	7.03	8.34	7.14	0.38	0.37	0.31	0.32
Percent of Floorspace Cooled												
Not Cooled	247	364	Q	146	7.91	7.84	Q	7.22	0.40	0.34	Q	0.26
1 to 50	1,032	1,315	655	463	8.66	7.04	9.47	7.35	0.32	0.33	0.22	0.24
51 to 99	1,007	1,252	631	451	8.51	7.06	8.03	7.12	0.40	0.40	0.27	0.26
100	1,268	1,912	2,531	1,202	8.66	7.01	8.25	7.31	0.45	0.38	0.33	0.34
Heating Equipment (more than one may apply)												
Heat Pumps	420	234	802	Q	8.22	7.35	8.75	8.16	0.45	0.31	0.29	0.31
Packaged Heat Pumps	242	174	434	Q	8.85	7.21	Q	8.41	0.44	0.31	0.28	Q
Split-System Heat Pumps	Q	Q	246	62	Q	Q	9.70	7.44	Q	Q	0.25	0.22
Individual Room Heat Pumps	Q	Q	235	Q	Q	Q	8.38	Q	Q	Q	0.26	Q
Furnaces	1,010	2,124	1,242	719	8.62	7.14	8.67	7.57	0.43	0.34	0.29	0.30
Individual Space Heaters	771	1,032	466	451	8.32	6.67	7.83	7.40	0.39	0.31	0.22	0.30
District Heat	Q	Q	101	Q	6.94	Q	7.97	Q	0.11	Q	0.13	Q
Boilers	2,222	2,457	1,582	1,156	8.25	6.72	7.65	6.93	0.43	0.43	0.40	0.34
Packaged Heating Units	1,139	1,196	1,618	524	8.51	7.17	8.53	7.09	0.45	0.37	0.30	0.21
Other	Q	150	83	Q	Q	6.94	8.72	Q	Q	0.27	0.12	Q

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

	Total Natural Gas Expenditures (million dollars)				Natural Gas Expenditures (dollars) per Thousand Cubic Feet				Natural Gas Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	3,553	4,844	3,866	2,261	8.56	7.09	8.40	7.28	0.39	0.37	0.29	0.29
Cooling Equipment (more than one may apply)												
Residential-Type Central Air Conditioners	851	1,139	607	270	8.46	6.64	8.54	7.45	0.44	0.38	0.28	0.32
Heat Pumps	455	269	818	Q	8.20	7.46	8.79	8.17	0.46	0.33	0.29	0.28
Packaged Heat Pumps	277	203	425	Q	8.72	7.37	Q	8.43	0.45	0.34	0.28	Q
Split-System Heat Pumps	Q	Q	263	Q	Q	Q	9.71	Q	Q	Q	0.26	Q
Individual Room Heat Pumps	Q	Q	241	81	Q	Q	8.36	7.30	Q	Q	0.25	0.14
Individual Air Conditioners	948	1,136	613	343	8.55	6.91	8.26	7.08	0.35	0.40	0.27	0.27
District Chilled Water	Q	Q	110	Q	Q	Q	7.92	Q	Q	Q	0.16	Q
Central Chillers	936	1,021	953	550	7.92	6.50	7.12	7.20	0.61	0.41	0.28	0.33
Packaged Air Conditioning Units	2,097	2,724	2,245	1,143	8.60	6.96	8.58	7.13	0.40	0.38	0.32	0.27
Swamp Coolers	Q	Q	Q	449	Q	Q	Q	6.68	Q	0.19	Q	0.42
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)												
Heating	1,076	1,652	1,059	732	8.86	6.87	8.34	7.49	0.39	0.38	0.34	0.36
Cooling	1,484	2,128	1,231	918	8.88	6.90	7.95	7.32	0.36	0.42	0.30	0.35
Water Heating Equipment												
Centralized System	2,507	3,127	2,337	1,375	8.76	7.28	8.30	7.17	0.45	0.39	0.31	0.34
Distributed System	422	764	556	246	8.23	7.55	8.85	7.84	0.23	0.36	0.24	0.18
Combination of Centralized and Distributed System	501	799	809	582	7.74	6.02	8.07	7.25	0.35	0.35	0.31	0.31
Energy-Related Space Functions (more than one may apply)												
Commercial Food Preparation	1,686	2,120	2,259	1,091	8.14	6.56	7.88	7.30	0.41	0.41	0.35	0.38
Activities with Large Amounts of Hot Water	1,282	1,952	1,990	1,242	7.64	6.34	7.77	7.26	0.39	0.42	0.38	0.44
Separate Computer Area	1,890	1,900	1,469	971	7.94	6.71	7.68	7.13	0.39	0.34	0.23	0.25
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System	1,266	1,626	1,331	847	7.97	6.76	7.61	7.42	0.42	0.37	0.29	0.32
Economizer Cycle	1,400	2,040	1,264	999	7.87	6.89	7.55	7.15	0.41	0.39	0.29	0.28
HVAC Maintenance	3,094	3,959	3,297	2,006	8.46	6.99	8.24	7.25	0.38	0.37	0.30	0.29
Energy Management and Control System (EMCS)	793	1,089	845	590	7.84	6.38	7.63	7.34	0.35	0.33	0.23	0.25
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]												
Heating	2,618	3,181	2,544	1,497	8.60	7.11	8.61	7.27	0.37	0.35	0.28	0.26
Cooling	2,470	3,061	2,647	1,607	8.72	7.03	8.54	7.30	0.36	0.35	0.27	0.27
Lighting	2,174	3,723	2,427	1,386	9.06	7.30	8.92	7.28	0.37	0.37	0.26	0.24
Office Equipment	974	1,406	736	550	9.21	7.09	9.17	7.07	0.32	0.32	0.25	0.24

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

	Total Natural Gas Expenditures (million dollars)				Natural Gas Expenditures (dollars)							
					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*	3,553	4,844	3,866	2,261	8.56	7.09	8.40	7.28	0.39	0.37	0.29	0.29
Annual Consumption (hundred cubic feet)												
1,000 or Less	54	116	143	98	13.99	10.34	12.64	10.85	Q	0.17	0.09	0.09
1,001 to 5,000	507	732	685	300	10.45	8.64	9.76	7.81	0.31	0.26	0.20	0.16
5,001 to 10,000	450	777	538	277	9.88	8.02	9.06	7.41	0.45	0.39	0.24	0.28
10,001 to 25,000	697	890	699	510	9.08	7.46	8.61	7.14	0.36	0.40	0.32	0.35
25,001 to 50,000	422	837	532	370	7.94	7.35	8.26	7.06	0.31	0.39	0.42	0.48
50,001 to 100,000	362	452	449	188	8.39	5.32	8.11	6.83	0.45	0.31	0.41	0.30
Over 100,000	1,061	1,040	820	519	7.35	6.04	6.93	6.95	0.69	0.55	0.54	0.56
Provider of Natural Gas (more than one may apply)												
Local Utility	2,886	4,140	3,531	2,021	8.82	7.28	8.56	7.39	0.36	0.37	0.29	0.29
Some Other Provider	865	951	403	318	7.67	6.14	6.83	6.34	0.55	0.40	0.25	0.37

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 3.8 percent of total natural gas consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use natural gas.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	73	343	512	1,465	7,716	9,570	49.5	44.4	53.5
Building Floorspace (Square Feet)									
1,001 to 5,000	Q	41	68	Q	417	729	Q	99.5	93.6
5,001 to 10,000	Q	31	43	Q	482	654	Q	64.8	66.0
10,001 to 25,000	Q	45	90	Q	931	1,681	Q	47.9	53.6
25,001 to 50,000	Q	39	70	Q	829	1,422	Q	47.4	49.5
50,001 to 100,000	Q	43	73	Q	1,263	1,554	Q	34.1	47.2
100,001 to 200,000	Q	41	67	Q	1,445	1,264	Q	28.3	52.7
200,001 to 500,000	Q	55	56	Q	1,484	1,277	Q	37.3	44.1
Over 500,000	Q	47	44	Q	865	989	Q	54.0	44.4
Principal Building Activity									
Education	Q	49	99	Q	1,247	1,804	Q	39.5	54.6
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	Q	Q	35	Q	Q	228	Q	Q	152.9
Health Care	Q	41	49	Q	396	484	Q	103.8	100.6
Inpatient	Q	37	38	Q	306	287	Q	120.3	131.2
Outpatient	Q	Q	Q	Q	Q	Q	Q	Q	Q
Lodging	Q	Q	39	Q	Q	507	Q	Q	77.5
Retail (Other Than Mall)	Q	13	29	Q	269	485	Q	48.2	59.2
Office	Q	72	84	Q	1,887	1,929	Q	38.2	43.7
Public Assembly	Q	12	35	Q	602	550	Q	Q	64.2
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	Q	Q	29	Q	Q	624	Q	Q	46.3
Service	Q	Q	44	Q	Q	723	Q	Q	61.5
Warehouse and Storage	Q	24	34	Q	913	1,259	Q	26.0	26.7
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	Q	30	48	Q	704	819	Q	43.0	58.0
1920 to 1945	Q	73	65	Q	1,584	959	Q	46.2	68.2
1946 to 1959	Q	52	67	Q	1,237	1,360	Q	41.9	49.0
1960 to 1969	Q	51	68	Q	1,113	1,215	Q	45.6	56.0
1970 to 1979	Q	48	110	Q	1,034	1,980	Q	46.8	55.8
1980 to 1989	Q	31	64	Q	838	1,126	Q	37.5	56.4
1990 to 1999	Q	32	63	Q	818	1,403	Q	39.3	44.8
2000 to 2003	Q	Q	28	Q	Q	708	Q	Q	39.2
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	N	Q	151	N	Q	2,660	N	53.3	56.7
5,500-7,000 HDD	73	116	361	1,465	2,227	6,909	49.5	52.0	52.3
4,000-5,499 HDD	N	165	N	N	4,328	N	N	38.1	N
Fewer than 4,000 HDD	N	N	N	N	N	N	N	N	N
2,000 CDD or More and --									
Fewer than 4,000 HDD	N	N	N	N	N	N	N	N	N
Number of Floors									
One	Q	92	159	Q	1,889	2,820	Q	48.6	56.5
Two	Q	83	146	Q	1,755	3,025	Q	47.4	48.4
Three	Q	51	86	Q	1,125	1,658	Q	45.0	51.9
Four to Nine	45	67	93	614	1,925	1,658	73.8	34.7	56.0
Ten or More	Q	50	27	Q	1,021	409	Q	49.2	67.1

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	73	343	512	1,465	7,716	9,570	49.5	44.4	53.5
Number of Workers (main shift)									
Fewer than 5	Q	39	92	Q	887	1,956	Q	43.5	46.9
5 to 9	Q	34	44	Q	496	784	Q	69.3	56.0
10 to 19	Q	39	65	Q	1,069	1,105	Q	36.3	59.2
20 to 49	Q	60	111	Q	1,812	1,855	Q	33.1	60.0
50 to 99	Q	44	71	Q	994	1,418	Q	44.6	49.7
100 to 249	Q	41	59	Q	885	1,085	Q	46.0	54.6
250 or More	Q	86	70	Q	1,574	1,367	Q	54.5	51.2
Weekly Operating Hours									
Fewer than 40	Q	Q	43	Q	Q	1,180	Q	Q	36.3
40 to 48	Q	38	89	Q	1,188	1,554	Q	31.9	57.0
49 to 60	Q	69	108	Q	1,824	2,629	Q	37.8	41.2
61 to 84	Q	65	87	Q	1,197	1,541	Q	54.6	56.4
85 to 167	Q	35	83	Q	821	1,181	Q	42.3	70.7
Open Continuously	40	123	102	510	2,302	1,485	79.1	53.4	68.7
Ownership and Occupancy									
Nongovernment Owned	61	287	366	1,219	6,427	6,793	49.7	44.7	53.9
Owner Occupied	42	159	170	791	3,365	3,244	53.4	47.2	52.3
Nonowner Occupied	Q	125	186	Q	2,874	3,023	Q	43.6	61.4
Unoccupied	N	Q	Q	N	Q	Q	N	Q	Q
Government Owned	Q	55	146	Q	1,289	2,777	Q	42.9	52.6
Federal	Q	Q	Q	Q	Q	Q	Q	Q	Q
State	Q	Q	Q	Q	Q	Q	Q	Q	Q
Local	Q	49	113	Q	1,028	2,018	Q	48.0	55.9
Vacancy Status									
Completely Vacant	N	Q	Q	N	Q	Q	N	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	26	65	89	571	1,576	1,983	46.4	41.0	44.9
Not At All Vacant	46	271	412	880	5,874	7,026	52.2	46.2	58.6
Number of Establishments									
One	45	243	386	826	4,915	6,833	54.0	49.4	56.5
2 to 5	Q	52	91	Q	1,515	1,700	Q	34.1	53.7
6 to 10	Q	Q	Q	Q	Q	Q	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied	N	Q	Q	N	Q	Q	N	Q	Q
Predominant Exterior Wall Material									
Brick, Stone or Stucco	53	228	338	864	4,743	5,826	60.9	48.0	58.0
Concrete (Block or Poured)	Q	60	90	Q	1,484	1,690	Q	40.2	53.1
Concrete Panels	Q	Q	40	Q	Q	757	Q	Q	53.2
Siding or Shingles	Q	Q	14	Q	Q	358	Q	Q	38.1
Metal Panels	Q	Q	13	Q	Q	455	Q	Q	28.1
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	73	343	512	1,465	7,716	9,570	49.5	44.4	53.5
Predominant Roof Material									
Built-Up	Q	126	205	Q	2,621	3,492	Q	48.1	58.6
Shingles (Not Wood)	Q	55	90	Q	970	1,705	Q	57.0	53.1
Metal Surfacing	Q	Q	31	Q	Q	786	Q	Q	39.0
Synthetic or Rubber	45	120	152	745	2,563	2,988	59.8	46.9	50.7
Slate or Tile	Q	Q	13	Q	Q	188	Q	Q	67.3
Wooden Materials	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	27	145	202	581	2,987	3,211	47.0	48.5	62.9
Addition or Annex	Q	58	80	Q	1,203	1,216	Q	47.8	65.6
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	Q	119	146	439	2,541	2,197	37.9	46.7	66.3
Wall or Roof Replacement	Q	55	84	Q	1,607	1,293	Q	34.2	65.3
Interior Wall Re-Configuration	Q	69	104	Q	1,748	1,630	Q	39.5	63.5
HVAC Equipment Upgrade	Q	95	135	Q	1,896	2,016	Q	50.1	66.7
Lighting Upgrade	Q	93	119	Q	2,136	1,876	Q	43.7	63.6
Window Replacement	Q	68	81	Q	1,739	1,196	Q	39.1	67.3
Plumbing System Upgrade	Q	64	85	Q	1,613	1,111	Q	39.7	76.4
Insulation Upgrade	Q	32	35	Q	771	664	Q	41.4	53.3
Other Renovation	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	17	110	156	387	2,685	3,122	44.2	40.8	50.0
Building Newer than 1980	Q	88	154	Q	2,044	3,236	Q	43.2	47.6
Energy Sources (more than one may apply)									
Electricity	73	343	512	1,465	7,716	9,568	49.5	44.4	53.5
Natural Gas	73	343	512	1,465	7,716	9,570	49.5	44.4	53.5
Fuel Oil	Q	124	96	Q	3,188	1,494	Q	39.0	64.2
District Heat	Q	Q	Q	Q	482	Q	Q	20.1	Q
District Chilled Water	Q	Q	Q	Q	Q	Q	Q	Q	Q
Propane	N	Q	26	N	Q	630	N	Q	42.0
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Space-Heating Energy Sources									
Natural Gas	69	324	501	1,198	6,041	8,758	57.8	53.6	57.2
Natural Gas Main	66	301	477	1,061	5,377	8,230	62.0	56.0	57.9
Natural Gas Secondary	Q	23	24	Q	663	528	Q	34.0	45.5
Other Excluding Natural Gas	Q	17	10	Q	Q	781	Q	Q	13.1
Buildings without Heating	N	Q	Q	N	Q	Q	N	Q	Q
Primary Space-Heating Energy Source									
Electricity	Q	22	31	Q	636	795	Q	35.3	39.4
Natural Gas	66	301	477	1,061	5,377	8,230	62.0	56.0	57.9
Fuel Oil	Q	12	Q	Q	Q	Q	Q	Q	Q
District Heat	Q	Q	Q	Q	377	Q	Q	Q	Q
Propane	N	N	N	N	N	N	N	N	N
Other	N	Q	Q	N	Q	Q	N	Q	Q

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	73	343	512	1,465	7,716	9,570	49.5	44.4	53.5
Cooling Energy Sources									
Natural Gas	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other Excluding Natural Gas	57	284	459	1,197	7,006	8,566	47.3	40.6	53.6
Buildings without Cooling	Q	27	38	Q	478	848	Q	56.6	45.2
Water-Heating Energy Sources									
Natural Gas	49	269	389	682	4,919	6,417	71.2	54.6	60.7
Other Excluding Natural Gas	20	65	110	693	2,467	2,733	28.7	26.5	40.1
Bldgs without Water Heating	Q	Q	13	Q	Q	419	Q	Q	31.4
Cooking Energy Sources									
Natural Gas	Q	154	202	Q	3,106	3,052	Q	49.7	66.2
Other Excluding Natural Gas	Q	Q	54	Q	442	1,053	Q	58.9	51.4
Buildings without Cooking	46	162	256	870	4,168	5,465	52.8	38.9	46.9
Energy End Uses (more than one may apply)									
Buildings with Space Heating	73	340	511	1,465	7,711	9,539	49.5	44.1	53.6
Buildings with Cooling	68	316	474	1,319	7,238	8,722	51.9	43.6	54.3
Buildings with Water Heating	68	334	499	1,375	7,386	9,150	49.8	45.2	54.5
Buildings with Cooking	27	181	256	595	3,548	4,105	44.7	50.9	62.4
Buildings with Manufacturing	Q	27	13	Q	476	418	Q	57.6	32.0
Buildings with Electricity Generation	Q	112	126	Q	2,136	2,311	Q	52.6	54.7
Percent of Floorspace Heated									
Not Heated	N	Q	Q	N	Q	Q	N	Q	Q
1 to 50	Q	21	20	Q	725	686	Q	29.1	29.9
51 to 99	Q	54	65	Q	923	1,044	Q	58.8	62.2
100	59	265	425	1,107	6,063	7,809	53.0	43.7	54.5
Percent of Floorspace Cooled									
Not Cooled	Q	27	38	Q	478	848	Q	56.6	45.2
1 to 50	Q	99	139	Q	2,777	2,921	Q	35.5	47.6
51 to 99	Q	92	120	Q	2,043	2,060	Q	45.2	58.5
100	22	125	214	410	2,418	3,741	53.1	51.6	57.3
Heating Equipment (more than one may apply)									
Heat Pumps	Q	37	22	Q	799	591	Q	46.2	36.7
Packaged Heat Pumps	Q	23	18	Q	497	469	Q	47.3	37.6
Split-System Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q
Furnaces	Q	92	211	Q	2,060	4,284	Q	44.9	49.2
Individual Space Heaters	Q	68	99	Q	1,553	2,290	Q	43.5	43.3
District Heat	Q	Q	Q	Q	399	Q	Q	19.5	Q
Boilers	57	213	287	925	4,217	4,274	61.2	50.5	67.2
Packaged Heating Units	Q	99	128	Q	2,078	2,302	Q	47.8	55.6
Other	Q	Q	13	Q	Q	326	Q	Q	39.8

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	73	343	512	1,465	7,716	9,570	49.5	44.4	53.5
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	Q	76	106	Q	1,739	1,890	Q	44.0	56.2
Heat Pumps	Q	39	25	Q	817	618	Q	47.5	40.4
Packaged Heat Pumps	Q	25	21	Q	515	491	Q	49.2	42.2
Split-System Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Air Conditioners	Q	85	126	Q	2,263	2,026	Q	37.6	62.2
District Chilled Water	Q	Q	Q	Q	Q	Q	Q	Q	Q
Central Chillers	Q	96	120	Q	1,177	1,863	Q	81.3	64.2
Packaged Air Conditioning Units	48	196	295	676	4,633	5,119	70.4	42.4	57.7
Swamp Coolers	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	Q	97	175	Q	2,384	3,072	Q	40.6	56.9
Cooling	29	139	225	628	3,549	3,491	45.4	39.1	64.6
Water Heating Equipment									
Centralized System	40	246	330	921	4,599	6,013	43.4	53.5	54.8
Distributed System	Q	36	76	Q	1,618	1,523	Q	22.2	49.9
Combination of Centralized and Distributed System	Q	52	93	Q	1,169	1,614	Q	44.3	57.8
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	27	181	256	595	3,548	4,105	44.7	50.9	62.4
Activities with Large Amounts of Hot Water	38	130	221	652	2,652	3,310	58.7	48.9	66.9
Separate Computer Area	48	190	220	685	4,197	4,260	69.7	45.3	51.8
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	Q	124	192	Q	2,526	3,281	Q	49.0	58.4
Economizer Cycle	43	135	236	640	2,738	3,973	67.6	49.1	59.3
HVAC Maintenance	62	303	439	1,221	6,927	8,008	51.0	43.8	54.9
Energy Management and Control System (EMCS)	Q	90	141	Q	1,961	2,522	Q	45.8	55.9
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	33	272	341	961	6,062	6,822	33.9	44.9	50.0
Cooling	34	249	328	931	5,928	6,398	36.8	42.0	51.2
Lighting	31	209	392	890	5,013	7,425	34.3	41.8	52.8
Office Equipment	Q	96	140	Q	2,632	3,116	Q	36.3	44.9

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	73	343	512	1,465	7,716	9,570	49.5	44.4	53.5
Annual Consumption (hundred cubic feet)									
1,000 or Less	Q	3	7	Q	Q	425	Q	Q	16.4
1,001 to 5,000	11	38	57	331	1,303	1,910	31.8	29.2	30.1
5,001 to 10,000	Q	40	74	Q	859	1,445	Q	46.8	51.0
10,001 to 25,000	Q	67	86	Q	1,595	1,554	Q	41.9	55.3
25,001 to 50,000	Q	48	86	Q	1,265	1,601	Q	38.2	53.6
50,001 to 100,000	Q	31	53	Q	638	960	Q	49.3	55.3
Over 100,000	Q	115	149	Q	1,333	1,674	Q	86.1	89.1
Provider of Natural Gas (more than one may apply)									
Local Utility	59	268	415	1,212	6,765	7,922	48.9	39.6	52.4
Some Other Provider	Q	94	133	Q	1,212	2,071	Q	77.5	64.1

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 3.8 percent of total natural gas consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use natural gas.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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*	171	210	99	3,593	6,326	2,281	47.6	33.2	43.3
Building Floorspace (Square Feet)									
1,001 to 5,000	23	25	11	346	325	209	66.6	75.3	53.5
5,001 to 10,000	13	34	Q	305	620	Q	44.0	54.9	Q
10,001 to 25,000	29	28	Q	756	987	565	37.9	28.6	Q
25,001 to 50,000	44	17	12	840	714	363	52.6	24.4	Q
50,001 to 100,000	Q	27	Q	Q	806	Q	Q	33.1	Q
100,001 to 200,000	19	Q	Q	512	1,238	Q	37.8	30.8	Q
200,001 to 500,000	Q	23	Q	Q	786	Q	Q	28.9	Q
Over 500,000	Q	18	Q	Q	Q	Q	Q	21.6	Q
Principal Building Activity									
Education	14	25	Q	380	1,274	Q	38.1	19.6	Q
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	Q	42	Q	Q	339	Q	Q	123.8	Q
Health Care	Q	Q	17	Q	508	196	Q	87.5	86.2
Inpatient	Q	Q	Q	Q	Q	Q	Q	Q	Q
Outpatient	Q	Q	Q	Q	Q	Q	Q	Q	Q
Lodging	27	25	Q	508	630	Q	52.6	39.9	Q
Retail (Other Than Mall)	Q	9	Q	Q	465	Q	Q	20.4	Q
Office	19	12	Q	518	821	321	37.4	14.7	28.5
Public Assembly	Q	Q	Q	Q	Q	Q	Q	Q	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	Q	Q	Q	Q	Q	Q	Q	Q	Q
Service	13	Q	Q	211	Q	Q	60.7	Q	Q
Warehouse and Storage	Q	Q	Q	662	Q	Q	41.8	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	Q	Q	Q	Q	Q	Q	Q	Q	Q
1920 to 1945	Q	Q	Q	385	Q	Q	73.1	Q	Q
1946 to 1959	18	Q	Q	321	496	Q	56.7	Q	Q
1960 to 1969	26	20	Q	603	556	Q	43.3	35.6	Q
1970 to 1979	28	22	22	758	815	459	36.5	27.3	47.7
1980 to 1989	Q	35	Q	Q	1,055	346	Q	32.8	73.0
1990 to 1999	31	65	17	723	2,249	610	42.7	29.1	27.7
2000 to 2003	Q	20	Q	Q	654	Q	Q	30.9	Q
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	84	N	N	1,722	N	N	48.8	N	N
5,500-7,000 HDD	43	N	N	Q	N	N	Q	N	N
4,000-5,499 HDD	44	58	Q	834	1,705	Q	52.3	33.9	Q
Fewer than 4,000 HDD	N	131	Q	N	3,643	Q	N	35.9	34.9
2,000 CDD or More and --									
Fewer than 4,000 HDD	N	Q	Q	N	Q	Q	N	22.1	43.7
Number of Floors									
One	50	82	31	1,095	2,590	978	45.7	31.8	31.8
Two	64	46	34	1,461	1,439	571	43.7	31.9	58.9
Three	23	Q	Q	581	600	Q	39.2	Q	Q
Four to Nine	33	41	Q	417	1,182	Q	78.0	35.1	Q
Ten or More	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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*	171	210	99	3,593	6,326	2,281	47.6	33.2	43.3
Number of Workers (main shift)									
Fewer than 5	29	26	Q	653	727	485	44.7	35.3	30.0
5 to 9	19	23	10	447	616	393	42.4	37.5	24.9
10 to 19	29	22	7	664	688	246	43.3	31.9	27.2
20 to 49	46	36	31	764	900	498	59.6	40.4	62.8
50 to 99	21	25	Q	572	1,067	Q	36.4	23.3	Q
100 to 249	Q	Q	Q	Q	993	Q	Q	45.5	Q
250 or More	Q	33	Q	Q	1,335	Q	Q	24.8	Q
Weekly Operating Hours									
Fewer than 40	Q	8	Q	Q	334	Q	Q	23.3	Q
40 to 48	20	21	16	553	834	564	36.5	25.8	28.8
49 to 60	51	24	Q	919	1,203	323	55.7	19.8	Q
61 to 84	24	31	11	665	1,211	482	35.8	25.4	23.2
85 to 167	Q	41	Q	Q	1,010	Q	Q	40.1	Q
Open Continuously	47	86	43	773	1,733	676	60.4	49.5	63.9
Ownership and Occupancy									
Nongovernment Owned	147	170	72	3,002	4,621	1,575	48.8	36.7	46.0
Owner Occupied	84	77	23	1,728	2,243	771	48.5	34.5	30.4
Nonowner Occupied	63	92	49	1,253	2,368	799	50.0	38.9	61.2
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	25	41	26	591	1,705	706	41.7	23.8	37.2
Federal	Q	Q	Q	Q	Q	Q	Q	Q	Q
State	Q	Q	Q	Q	Q	Q	Q	Q	Q
Local	20	28	11	479	973	310	41.2	28.6	35.6
Vacancy Status									
Completely Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	N	Q	Q	N	Q	Q	N
Partially Vacant	24	24	7	467	1,088	270	51.0	22.4	27.6
Not At All Vacant	142	186	91	3,023	5,212	2,006	47.0	35.6	45.4
Number of Establishments									
One	121	172	83	2,582	4,735	1,810	47.0	36.4	45.7
2 to 5	36	25	Q	721	1,018	Q	50.3	24.7	Q
6 to 10	Q	Q	Q	Q	Q	Q	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Exterior Wall Material									
Brick, Stone or Stucco	72	112	51	1,541	3,205	1,336	46.8	35.1	37.9
Concrete (Block or Poured)	48	Q	Q	776	1,055	467	61.3	Q	69.5
Concrete Panels	19	Q	Q	315	Q	Q	59.1	20.3	Q
Siding or Shingles	14	Q	Q	326	Q	Q	44.0	Q	Q
Metal Panels	17	22	Q	595	725	Q	29.1	30.7	Q
Window Glass	Q	Q	N	Q	Q	N	Q	Q	N
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	N	Q	Q	N	Q	Q	N

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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*	171	210	99	3,593	6,326	2,281	47.6	33.2	43.3
Predominant Roof Material									
Built-Up	55	80	47	1,081	2,076	635	51.4	38.5	74.6
Shingles (Not Wood)	30	35	15	714	1,009	458	42.6	34.5	33.7
Metal Surfacing	31	27	16	756	1,117	603	41.1	24.3	26.5
Synthetic or Rubber	42	57	16	779	1,792	483	53.7	31.7	33.6
Slate or Tile	Q	Q	Q	Q	Q	Q	Q	Q	Q
Wooden Materials	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete	Q	Q	N	Q	Q	N	Q	Q	N
Other	N	Q	N	N	Q	N	N	Q	N
No One Major Type	N	Q	N	N	Q	N	N	Q	N
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	75	59	29	1,481	1,279	613	50.9	46.5	47.1
Addition or Annex	Q	Q	14	577	Q	235	63.0	Q	61.6
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	50	32	24	1,112	814	508	45.0	39.1	46.4
Wall or Roof Replacement	28	20	Q	717	557	Q	39.1	35.9	Q
Interior Wall Re-Configuration	30	20	Q	717	665	Q	41.8	29.3	Q
HVAC Equipment Upgrade	54	Q	21	987	896	345	54.6	53.3	61.7
Lighting Upgrade	40	18	21	828	608	362	48.0	28.8	59.3
Window Replacement	19	Q	Q	461	Q	Q	40.7	Q	Q
Plumbing System Upgrade	25	16	Q	527	427	Q	47.3	37.6	Q
Insulation Upgrade	18	Q	Q	427	Q	Q	41.1	Q	Q
Other Renovation	N	Q	Q	N	Q	Q	N	Q	Q
No Renovations Since 1980	43	31	21	943	1,089	537	46.1	28.0	38.2
Building Newer than 1980	52	120	49	1,169	3,958	1,131	44.8	30.4	43.6
Energy Sources (more than one may apply)									
Electricity	171	210	99	3,593	6,326	2,281	47.6	33.2	43.3
Natural Gas	171	210	99	3,593	6,326	2,281	47.6	33.2	43.3
Fuel Oil	40	74	Q	629	1,696	Q	64.1	43.5	Q
District Heat	Q	Q	Q	Q	526	Q	Q	Q	Q
District Chilled Water	Q	Q	Q	Q	Q	Q	Q	Q	Q
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Space-Heating Energy Sources									
Natural Gas	167	183	94	3,422	4,852	2,110	48.8	37.7	44.4
Natural Gas Main	154	166	85	3,091	4,175	1,817	49.7	39.7	46.8
Natural Gas Secondary	Q	17	Q	Q	677	Q	Q	25.0	Q
Other Excluding Natural Gas	Q	27	Q	Q	1,398	Q	Q	19.2	Q
Buildings without Heating	Q	Q	Q	Q	Q	Q	Q	Q	Q
Primary Space-Heating Energy Source									
Electricity	14	37	10	390	1,463	331	35.6	25.3	29.0
Natural Gas	154	166	85	3,091	4,175	1,817	49.7	39.7	46.8
Fuel Oil	Q	Q	N	Q	Q	N	Q	Q	N
District Heat	Q	Q	Q	Q	Q	Q	Q	Q	Q
Propane	N	Q	N	N	Q	N	N	Q	N
Other	Q	Q	N	Q	Q	N	Q	Q	N

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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*	171	210	99	3,593	6,326	2,281	47.6	33.2	43.3
Cooling Energy Sources									
Natural Gas	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other Excluding Natural Gas	155	195	97	3,269	6,147	2,245	47.5	31.8	43.2
Buildings without Cooling	Q	Q	Q	Q	Q	Q	Q	Q	Q
Water-Heating Energy Sources									
Natural Gas	123	157	81	2,382	3,649	1,456	51.7	43.0	55.5
Other Excluding Natural Gas	41	48	15	952	2,425	715	43.5	19.6	21.6
Bldgs without Water Heating	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooking Energy Sources									
Natural Gas	60	131	47	913	2,741	786	65.4	47.6	59.8
Other Excluding Natural Gas	Q	Q	Q	Q	Q	Q	Q	Q	Q
Buildings without Cooking	104	70	48	2,496	3,208	1,320	41.8	21.9	36.1
Energy End Uses (more than one may apply)									
Buildings with Space Heating	171	210	99	3,591	6,250	2,256	47.7	33.5	43.7
Buildings with Cooling	163	207	98	3,368	6,258	2,254	48.4	33.1	43.3
Buildings with Water Heating	165	204	96	3,334	6,074	2,171	49.4	33.6	44.3
Buildings with Cooking	67	140	51	1,097	3,118	961	61.0	44.9	53.2
Buildings with Manufacturing	Q	Q	Q	Q	Q	Q	Q	Q	Q
Buildings with Electricity Generation	39	73	24	591	1,672	301	66.2	43.5	80.1
Percent of Floorspace Heated									
Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	Q	19	Q	Q	525	Q	Q	35.3	Q
51 to 99	14	26	10	292	1,201	224	49.0	21.9	42.4
100	154	165	82	3,109	4,525	1,774	49.6	36.4	46.2
Percent of Floorspace Cooled									
Not Cooled	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	48	36	8	1,033	1,570	391	46.2	23.2	21.5
51 to 99	57	37	14	1,051	1,611	312	54.1	23.0	44.0
100	58	134	75	1,284	3,076	1,551	45.5	43.5	48.6
Heating Equipment (more than one may apply)									
Heat Pumps	Q	66	17	Q	1,947	373	Q	33.8	45.1
Packaged Heat Pumps	Q	Q	Q	Q	1,057	Q	Q	Q	Q
Split-System Heat Pumps	Q	20	Q	Q	737	Q	Q	27.8	Q
Individual Room Heat Pumps	Q	19	Q	Q	736	Q	Q	25.4	Q
Furnaces	87	64	21	1,981	2,050	784	43.8	31.5	26.2
Individual Space Heaters	56	31	12	1,072	1,195	399	51.9	25.5	29.8
District Heat	Q	Q	Q	Q	514	Q	Q	Q	Q
Boilers	78	93	58	1,454	1,795	767	53.9	51.8	75.6
Packaged Heating Units	39	92	34	907	2,361	966	42.8	39.1	35.2
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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*	171	210	99	3,593	6,326	2,281	47.6	33.2	43.3
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	65	31	15	1,142	1,001	407	57.3	31.2	36.6
Heat Pumps	Q	68	16	Q	2,023	392	Q	33.4	42.0
Packaged Heat Pumps	Q	Q	Q	Q	1,045	Q	Q	Q	Q
Split-System Heat Pumps	Q	21	Q	Q	755	Q	Q	28.2	Q
Individual Room Heat Pumps	Q	20	Q	Q	776	Q	Q	25.2	Q
Individual Air Conditioners	38	45	17	809	1,232	484	47.4	36.6	35.0
District Chilled Water	Q	Q	Q	Q	Q	Q	Q	Q	Q
Central Chillers	38	54	29	635	1,495	453	59.1	35.9	64.2
Packaged Air Conditioning Units	96	125	55	2,080	3,426	1,313	46.0	36.6	42.2
Swamp Coolers	N	Q	Q	N	Q	Q	N	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	66	57	33	1,320	1,344	545	49.8	42.4	Q
Cooling	83	56	46	1,631	1,666	777	50.8	33.9	59.8
Water Heating Equipment									
Centralized System	100	123	58	2,109	3,334	1,495	47.5	36.8	38.6
Distributed System	25	30	7	576	1,005	260	43.7	29.5	27.2
Combination of Centralized and Distributed System	39	52	Q	649	1,735	416	60.6	29.9	75.4
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	67	140	51	1,097	3,118	961	61.0	44.9	53.2
Activities with Large Amounts of Hot Water	86	130	49	1,391	2,806	833	62.1	46.5	58.9
Separate Computer Area	63	89	37	1,345	3,137	900	46.7	28.3	41.1
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	49	61	48	1,067	2,053	619	45.7	29.5	77.0
Economizer Cycle	60	74	37	1,258	2,413	608	47.9	30.8	61.0
HVAC Maintenance	127	187	83	2,776	5,494	1,767	45.8	34.0	46.7
Energy Management and Control System (EMCS)	30	49	22	735	1,805	488	40.4	27.4	45.9
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	106	126	69	2,362	4,413	1,576	45.0	28.5	44.0
Cooling	108	128	73	2,347	4,811	1,635	45.9	26.7	44.7
Lighting	118	121	54	2,645	4,449	1,529	44.7	27.1	35.6
Office Equipment	58	41	11	1,323	1,369	421	44.1	29.8	26.7

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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*	171	210	99	3,593	6,326	2,281	47.6	33.2	43.3
Annual Consumption (hundred cubic feet)									
1,000 or Less	4	5	2	272	639	225	15.7	8.1	8.9
1,001 to 5,000	27	32	18	860	1,484	815	31.6	21.6	22.4
5,001 to 10,000	23	27	Q	538	1,123	Q	43.2	23.6	Q
10,001 to 25,000	33	38	16	678	1,074	463	49.1	35.7	35.1
25,001 to 50,000	28	29	Q	534	629	Q	52.7	46.7	Q
50,001 to 100,000	Q	Q	Q	Q	Q	Q	Q	Q	Q
Over 100,000	Q	60	Q	Q	766	Q	Q	77.9	Q
Provider of Natural Gas (more than one may apply)									
Local Utility	153	190	94	3,356	5,730	2,205	45.6	33.2	42.5
Some Other Provider	22	27	Q	307	Q	Q	71.8	31.4	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 3.8 percent of total natural gas consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use natural gas.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	151	162	149	4,704	2,797	5,016	32.2	57.9	29.7
Building Floorspace (Square Feet)									
1,001 to 5,000	29	18	Q	334	265	363	87.9	68.4	60.2
5,001 to 10,000	23	Q	Q	519	Q	496	44.2	Q	53.4
10,001 to 25,000	14	38	22	514	630	748	28.1	61.1	29.0
25,001 to 50,000	17	23	21	512	464	733	33.5	49.1	28.7
50,001 to 100,000	18	Q	18	888	Q	730	20.5	Q	24.2
100,001 to 200,000	16	Q	12	760	Q	651	21.5	Q	17.8
200,001 to 500,000	Q	Q	14	470	Q	675	Q	Q	20.8
Over 500,000	Q	Q	Q	Q	Q	Q	Q	Q	Q
Principal Building Activity									
Education	16	21	28	797	420	802	20.6	48.8	34.8
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	37	Q	Q	211	Q	Q	175.7	Q	Q
Health Care	26	19	19	282	162	274	91.4	115.5	68.7
Inpatient	23	Q	Q	235	Q	Q	96.0	Q	Q
Outpatient	Q	Q	Q	Q	Q	Q	Q	Q	Q
Lodging	Q	Q	16	Q	Q	515	Q	Q	31.5
Retail (Other Than Mall)	7	Q	5	436	Q	455	16.2	Q	11.4
Office	12	19	17	Q	379	1,165	15.2	50.0	14.2
Public Assembly	Q	Q	Q	Q	Q	Q	Q	Q	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	Q	Q	Q	336	Q	Q	19.4	Q	Q
Service	Q	Q	Q	Q	Q	Q	Q	Q	Q
Warehouse and Storage	Q	Q	Q	614	Q	Q	11.3	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	Q	Q	Q	Q	Q	Q	Q	Q	Q
1920 to 1945	8	Q	12	271	Q	580	29.9	Q	21.5
1946 to 1959	14	Q	15	358	Q	478	37.7	Q	32.2
1960 to 1969	14	27	18	567	441	672	25.4	62.2	27.0
1970 to 1979	30	49	25	991	712	782	29.8	68.8	31.7
1980 to 1989	30	38	37	1,119	525	1,067	26.4	72.8	34.8
1990 to 1999	38	18	28	848	487	908	45.4	36.8	31.0
2000 to 2003	Q	Q	8	433	Q	415	27.9	Q	19.9
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	N	104	Q	N	1,722	Q	N	60.4	46.8
5,500-7,000 HDD	N	53	13	N	829	383	N	63.5	33.7
4,000-5,499 HDD	Q	N	14	Q	N	443	Q	N	30.8
Fewer than 4,000 HDD	72	N	99	1,777	N	3,761	40.3	N	26.2
2,000 CDD or More and --									
Fewer than 4,000 HDD	71	Q	Q	2,748	Q	Q	26.0	Q	Q
Number of Floors									
One	78	70	71	2,284	1,301	1,811	34.3	54.1	39.3
Two	18	44	35	771	836	1,367	23.7	52.9	25.3
Three	Q	Q	10	Q	Q	564	Q	Q	17.7
Four to Nine	26	Q	25	550	318	701	47.2	53.4	35.9
Ten or More	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	151	162	149	4,704	2,797	5,016	32.2	57.9	29.7
Number of Workers (main shift)									
Fewer than 5	15	22	17	762	462	787	19.6	47.2	22.2
5 to 9	21	15	21	456	294	401	45.7	49.4	51.9
10 to 19	31	22	13	598	334	424	51.8	65.7	29.9
20 to 49	30	26	37	884	445	910	33.8	58.3	40.9
50 to 99	15	23	15	657	500	577	22.5	46.9	26.4
100 to 249	Q	Q	17	Q	Q	786	Q	Q	21.1
250 or More	33	Q	29	Q	519	1,131	31.4	83.9	25.5
Weekly Operating Hours									
Fewer than 40	5	Q	Q	277	Q	427	19.5	Q	31.1
40 to 48	12	27	13	864	421	777	14.0	64.9	16.7
49 to 60	29	26	24	1,287	615	1,067	22.6	42.6	22.2
61 to 84	27	20	30	710	422	1,003	38.3	48.3	29.6
85 to 167	26	Q	21	520	Q	721	50.3	Q	28.5
Open Continuously	51	66	49	1,046	866	1,020	49.0	75.8	47.7
Ownership and Occupancy									
Nongovernment Owned	125	119	111	3,692	2,073	3,916	33.8	57.6	28.3
Owner Occupied	44	41	45	1,859	828	1,719	23.9	49.9	26.3
Nonowner Occupied	80	78	65	1,789	1,238	2,114	44.7	63.0	30.6
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	27	43	38	1,011	724	1,101	26.2	58.8	34.5
Federal	Q	Q	Q	Q	Q	Q	Q	Q	Q
State	Q	Q	Q	Q	Q	343	Q	Q	53.0
Local	12	29	17	578	457	678	20.6	63.3	24.8
Vacancy Status									
Completely Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant	N	Q	Q	N	Q	Q	N	Q	Q
Partially Vacant	23	31	19	1,051	507	933	22.0	60.4	19.9
Not At All Vacant	128	131	128	3,603	2,266	3,955	35.4	57.7	32.4
Number of Establishments									
One	110	141	117	3,306	2,214	3,299	33.4	63.5	35.5
2 to 5	26	17	23	656	436	915	38.9	38.8	25.0
6 to 10	Q	Q	Q	Q	Q	Q	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Exterior Wall Material									
Brick, Stone or Stucco	93	63	84	2,583	1,094	2,358	35.9	57.4	35.6
Concrete (Block or Poured)	20	19	29	574	322	816	34.8	57.8	35.2
Concrete Panels	10	Q	15	636	Q	892	15.2	70.9	16.9
Siding or Shingles	Q	Q	Q	Q	Q	Q	Q	Q	Q
Metal Panels	15	Q	9	529	504	482	27.5	51.1	17.8
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	151	162	149	4,704	2,797	5,016	32.2	57.9	29.7
Predominant Roof Material									
Built-Up	57	76	61	1,738	1,048	2,203	32.7	72.1	27.9
Shingles (Not Wood)	18	22	26	471	377	616	37.3	58.5	41.5
Metal Surfacing	24	32	13	1,007	730	397	23.5	43.6	33.5
Synthetic or Rubber	42	28	25	1,016	498	974	41.5	55.5	25.3
Slate or Tile	Q	Q	15	Q	Q	406	Q	Q	35.8
Wooden Materials	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	N	Q	Q	N	Q	Q	N	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	35	53	38	917	874	1,328	38.0	60.3	28.4
Addition or Annex	21	35	16	416	532	351	49.4	66.0	44.8
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	25	38	32	689	598	1,174	36.6	63.8	27.3
Wall or Roof Replacement	13	28	18	448	452	661	28.2	62.0	27.6
Interior Wall Re-Configuration	17	35	21	483	565	684	36.1	62.7	30.4
HVAC Equipment Upgrade	19	38	25	472	658	843	39.8	57.3	29.9
Lighting Upgrade	15	34	26	384	592	873	38.9	56.8	29.5
Window Replacement	Q	Q	14	Q	Q	380	Q	Q	35.9
Plumbing System Upgrade	Q	25	19	Q	486	766	Q	52.3	24.9
Insulation Upgrade	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other Renovation	N	Q	Q	N	Q	Q	N	Q	Q
No Renovations Since 1980	36	46	38	1,387	672	1,299	26.2	68.2	28.9
Building Newer than 1980	80	63	74	2,400	1,251	2,390	33.4	50.7	30.8
Energy Sources (more than one may apply)									
Electricity	151	162	149	4,698	2,797	5,016	32.2	57.9	29.7
Natural Gas	151	162	149	4,704	2,797	5,016	32.2	57.9	29.7
Fuel Oil	34	Q	37	Q	448	1,136	34.6	89.3	32.1
District Heat	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Chilled Water	Q	Q	Q	Q	Q	Q	Q	Q	Q
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Space-Heating Energy Sources									
Natural Gas	133	157	122	3,731	2,547	4,301	35.7	61.6	28.4
Natural Gas Main	127	148	113	3,308	2,277	3,633	38.2	65.1	31.2
Natural Gas Secondary	Q	Q	9	Q	Q	668	Q	Q	13.1
Other Excluding Natural Gas	17	Q	15	869	Q	533	19.8	Q	28.9
Buildings without Heating	Q	Q	Q	Q	Q	Q	Q	Q	Q
Primary Space-Heating Energy Source									
Electricity	23	11	22	1,160	334	1,015	19.5	31.9	21.9
Natural Gas	127	148	113	3,308	2,277	3,633	38.2	65.1	31.2
Fuel Oil	N	Q	N	N	Q	N	N	Q	N
District Heat	Q	Q	Q	Q	Q	Q	Q	Q	Q
Propane	N	N	N	N	N	N	N	N	N
Other	N	N	Q	N	N	Q	N	N	Q

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	151	162	149	4,704	2,797	5,016	32.2	57.9	29.7
Cooling Energy Sources									
Natural Gas	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other Excluding Natural Gas	148	154	128	4,587	2,634	4,355	32.2	58.4	29.3
Buildings without Cooling	Q	Q	14	Q	Q	408	Q	Q	35.0
Water-Heating Energy Sources									
Natural Gas	126	143	127	3,201	2,276	3,838	39.3	62.9	33.1
Other Excluding Natural Gas	18	Q	18	1,117	381	831	16.3	40.3	21.2
Bldgs without Water Heating	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooking Energy Sources									
Natural Gas	82	58	77	1,953	796	1,616	41.9	73.4	47.3
Other Excluding Natural Gas	14	Q	Q	394	Q	Q	35.1	Q	Q
Buildings without Cooking	56	94	66	2,357	1,815	3,113	23.6	52.0	21.2
Energy End Uses (more than one may apply)									
Buildings with Space Heating	151	161	138	4,600	2,726	4,835	32.7	58.9	28.4
Buildings with Cooling	150	156	135	4,608	2,649	4,608	32.4	58.9	29.2
Buildings with Water Heating	144	159	145	4,318	2,656	4,669	33.3	59.7	31.0
Buildings with Cooking	96	68	83	2,346	982	1,904	40.7	68.8	43.4
Buildings with Manufacturing	Q	Q	Q	Q	Q	Q	Q	Q	Q
Buildings with Electricity Generation	36	44	39	1,154	583	1,237	31.6	75.3	31.8
Percent of Floorspace Heated									
Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	Q	Q	10	499	Q	851	Q	Q	11.8
51 to 99	24	25	30	433	483	1,090	56.0	52.8	27.6
100	123	127	97	3,667	2,054	2,894	33.5	62.0	33.7
Percent of Floorspace Cooled									
Not Cooled	Q	Q	14	Q	Q	408	Q	Q	35.0
1 to 50	24	45	18	1,064	873	1,059	22.8	52.0	16.6
51 to 99	28	31	32	439	682	1,072	63.3	46.0	29.9
100	97	79	85	3,106	1,095	2,478	31.4	72.5	34.3
Heating Equipment (more than one may apply)									
Heat Pumps	Q	Q	18	Q	Q	849	Q	Q	20.8
Packaged Heat Pumps	Q	Q	7	Q	Q	426	Q	Q	17.2
Split-System Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q
Furnaces	58	51	44	1,469	1,045	1,337	39.6	49.0	32.8
Individual Space Heaters	17	29	32	506	595	920	33.9	49.1	34.5
District Heat	Q	Q	Q	Q	Q	Q	Q	Q	Q
Boilers	56	95	71	1,380	1,216	2,146	40.5	78.5	33.3
Packaged Heating Units	63	33	41	2,012	640	1,911	31.5	52.2	21.2
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	151	162	149	4,704	2,797	5,016	32.2	57.9	29.7
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	25	17	19	764	304	538	32.7	55.9	35.7
Heat Pumps	Q	Q	17	Q	Q	914	Q	Q	18.8
Packaged Heat Pumps	Q	Q	6	Q	Q	404	Q	Q	15.9
Split-System Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Air Conditioners	12	34	14	536	607	678	22.7	56.0	21.3
District Chilled Water	Q	Q	Q	Q	Q	Q	Q	Q	Q
Central Chillers	51	43	33	1,485	484	1,162	34.5	88.8	28.8
Packaged Air Conditioning Units	81	79	81	2,306	1,501	2,753	35.1	52.9	29.4
Swamp Coolers	Q	45	22	Q	763	315	Q	59.7	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	37	59	38	1,193	901	1,111	30.7	65.8	34.6
Cooling	52	73	52	1,649	1,089	1,567	31.6	66.9	33.5
Water Heating Equipment									
Centralized System	101	90	102	2,798	1,557	2,527	36.1	57.9	40.2
Distributed System	26	13	18	1,023	322	1,030	25.6	41.5	17.5
Combination of Centralized and Distributed System	17	55	25	497	777	1,112	33.9	70.8	22.7
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	96	68	82	2,346	982	1,892	40.7	68.8	43.3
Activities with Large Amounts of Hot Water	77	80	91	1,575	1,126	1,678	48.7	71.1	54.3
Separate Computer Area	65	77	59	2,253	1,296	2,543	29.0	59.5	23.2
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	67	54	60	1,917	978	1,678	34.7	55.6	35.6
Economizer Cycle	56	73	66	1,404	1,164	2,456	39.9	63.0	27.0
HVAC Maintenance	131	138	138	3,866	2,404	4,522	33.9	57.5	30.6
Energy Management and Control System (EMCS)	39	44	37	1,448	680	1,657	26.8	64.0	22.3
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	100	117	89	3,227	1,933	3,824	31.1	60.5	23.3
Cooling	109	120	100	3,468	2,070	3,849	31.4	58.1	25.9
Lighting	97	95	95	3,440	1,864	3,817	28.2	51.0	25.0
Office Equipment	28	40	38	1,180	721	1,538	23.8	55.1	24.7

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	151	162	149	4,704	2,797	5,016	32.2	57.9	29.7
Annual Consumption (hundred cubic feet)									
1,000 or Less	4	Q	7	746	Q	925	5.5	Q	7.1
1,001 to 5,000	20	19	19	1,121	591	1,317	17.7	32.3	14.6
5,001 to 10,000	24	22	16	889	387	618	27.2	56.5	25.2
10,001 to 25,000	27	Q	38	625	Q	977	42.6	70.9	39.1
25,001 to 50,000	31	23	29	511	431	339	60.4	54.5	85.1
50,001 to 100,000	Q	Q	Q	Q	Q	Q	Q	Q	Q
Over 100,000	32	48	27	466	461	Q	68.8	104.4	57.9
Provider of Natural Gas (more than one may apply)									
Local Utility	129	138	135	4,132	2,399	4,641	31.1	57.6	29.1
Some Other Provider	Q	32	18	Q	487	366	Q	66.4	48.9

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 3.8 percent of total natural gas consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use natural gas.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Total Natural Gas Consumption (billion cubic feet)					Total Floorspace of Buildings Using Natural Gas (million square feet)					Natural Gas Energy Intensity (cubic feet/square foot)				
	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*	418	659	327	347	119	7,645	12,850	8,113	10,509	4,350	54.7	51.3	40.3	33.0	27.3
Building Floorspace (Square Feet)															
1,001 to 5,000	56	81	35	55	16	660	979	421	789	234	85.0	82.9	82.5	69.8	66.6
5,001 to 10,000	47	53	27	59	16	644	944	526	1,212	367	72.5	56.5	51.2	49.0	43.9
10,001 to 25,000	88	103	50	47	13	1,679	2,134	958	1,781	501	52.4	48.0	51.7	26.4	25.9
25,001 to 50,000	59	87	52	34	18	1,251	1,839	1,031	1,441	463	47.2	47.2	50.4	23.7	38.6
50,001 to 100,000	55	88	42	41	11	1,043	2,129	1,300	1,569	642	52.4	41.5	32.3	26.0	16.5
100,001 to 200,000	35	114	31	Q	9	970	2,090	1,320	1,550	714	36.2	54.5	23.4	34.0	12.4
200,001 to 500,000	54	61	38	31	15	1,001	1,471	1,380	1,161	666	53.6	41.7	27.3	26.8	22.5
Over 500,000	Q	71	53	27	Q	Q	1,263	1,176	1,005	Q	Q	56.5	44.9	26.8	Q
Principal Building Activity															
Education	65	113	26	48	9	1,227	2,281	968	1,700	869	53.0	49.4	26.4	28.2	10.1
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	27	49	Q	64	31	174	368	Q	393	277	154.3	134.4	Q	161.9	110.9
Health Care	38	69	36	64	29	383	665	454	720	323	98.4	103.5	78.3	89.5	89.4
Inpatient	27	56	30	59	26	237	414	302	589	264	114.1	136.3	99.9	99.4	98.8
Outpatient	Q	12	Q	Q	Q	Q	251	Q	Q	Q	Q	49.4	Q	Q	Q
Lodging	34	86	36	34	18	609	1,183	958	967	538	55.5	72.8	Q	35.3	32.8
Retail (Other Than Mall)	27	27	16	16	Q	593	595	451	931	Q	46.1	45.8	36.1	17.0	Q
Office	60	106	60	22	14	1,252	2,575	1,977	1,539	865	48.0	41.0	30.1	14.4	16.1
Public Assembly	32	30	Q	25	Q	639	537	Q	700	Q	49.7	55.0	Q	35.4	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	14	38	14	13	Q	277	973	412	774	Q	49.2	38.9	32.8	16.5	Q
Service	49	37	18	23	Q	697	717	422	511	Q	70.9	52.1	Q	44.8	Q
Warehouse and Storage	33	44	33	16	Q	963	1,672	1,071	1,463	Q	34.5	26.4	30.7	11.2	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed															
Before 1920	55	46	25	Q	Q	832	1,042	599	Q	Q	66.4	43.7	41.9	Q	Q
1920 to 1945	49	70	77	17	Q	762	1,296	1,563	821	Q	64.8	54.1	49.0	21.3	Q
1946 to 1959	37	97	29	Q	Q	642	1,831	1,000	945	Q	57.5	52.8	29.0	44.8	Q
1960 to 1969	61	94	36	39	19	1,005	1,759	1,061	1,246	563	60.2	53.2	33.7	31.2	33.3
1970 to 1979	95	125	43	59	19	1,732	2,291	1,199	1,697	739	54.8	54.4	35.6	34.9	26.3
1980 to 1989	42	109	43	70	19	688	1,831	946	2,111	893	60.7	59.3	45.7	33.0	21.5
1990 to 1999	61	82	45	86	31	1,460	1,887	1,053	2,704	1,073	41.4	43.5	43.1	31.8	28.6
2000 to 2003	19	38	Q	24	13	524	913	693	785	517	36.5	41.1	41.6	30.6	25.6
Census Region and Division															
Northeast	Q	188	165	N	N	Q	3,692	4,328	N	N	53.3	51.0	38.1	N	N
New England	N	73	N	N	N	N	1,465	N	N	N	N	49.5	N	N	N
Middle Atlantic	Q	116	165	N	N	Q	2,227	4,328	N	N	53.3	52.0	38.1	N	N
Midwest	235	405	44	N	N	4382.0	7,947	834	N	N	53.6	51.0	52.3	N	N
East North Central	151	361	N	N	N	2660.0	6,909	N	N	N	56.7	52.3	N	N	N
West North Central	84	43	44	N	N	1722.0	Q	834	N	N	48.8	Q	52.3	N	N
South	N	N	104	249	107	N	N	2,508	6,748	4,054	N	N	41.5	36.8	26.5
South Atlantic	N	N	58	131	Q	N	N	1,705	3,643	Q	N	N	33.9	35.9	22.1
East South Central	N	N	Q	Q	Q	N	N	Q	Q	Q	N	N	Q	34.9	43.7
West South Central	N	N	Q	72	71	N	N	Q	1,777	2,748	N	N	Q	40.3	26.0
West	122	66	14	99	11	2102.0	1,211	443	3,761	296	57.9	54.1	30.8	26.2	37.9
Mountain	104	53	N	N	Q	1722.0	829	N	N	Q	60.4	63.5	N	N	Q
Pacific	Q	13	14	99	Q	Q	383	443	3,761	Q	46.8	33.7	30.8	26.2	117.3

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

	Total Natural Gas Consumption (billion cubic feet)					Total Floorspace of Buildings Using Natural Gas (million square feet)					Natural Gas Energy Intensity (cubic feet/square foot)				
	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*	418	659	327	347	119	7,645	12,850	8,113	10,509	4,350	54.7	51.3	40.3	33.0	27.3
Number of Floors															
One	140	213	81	161	49	2,572	3,898	1,862	4,894	1,715	54.3	54.7	43.4	32.9	28.7
Two	131	164	89	75	18	2,461	3,745	1,964	2,436	835	53.2	43.8	45.1	30.7	21.6
Three	60	96	35	Q	Q	1,140	2,239	996	1,060	Q	52.5	42.9	34.8	34.7	Q
Four to Nine	74	133	74	60	27	1,270	2,171	2,103	1,392	735	58.1	61.1	35.0	43.4	36.3
Ten or More	Q	53	49	14	Q	Q	798	1,188	727	Q	Q	66.6	41.3	19.3	Q
Number of Workers (main shift)															
Fewer than 5	65	108	35	49	7	1,279	2,639	807	1,797	501	50.9	41.0	43.0	27.1	14.7
5 to 9	41	63	30	46	12	796	1,164	616	1,166	341	51.5	54.6	48.2	39.4	35.0
10 to 19	62	81	31	37	23	997	1,575	1,055	1,196	494	62.1	51.4	29.8	31.3	46.6
20 to 49	100	112	80	71	19	1,748	2,227	1,742	1,894	601	57.3	50.3	46.1	37.6	31.9
50 to 99	60	93	33	38	10	1,338	1,838	1,036	1,363	580	45.0	50.6	31.9	27.7	16.8
100 to 249	44	83	37	54	10	872	1,409	1,071	1,418	357	50.4	58.8	34.5	38.3	26.6
250 or More	46	118	80	52	38	614	1,998	1,786	1,675	1,475	74.7	59.1	45.0	30.8	25.7
Weekly Operating Hours															
Fewer than 40	22	50	Q	Q	Q	477	1,536	Q	746	Q	46.8	32.6	Q	30.2	Q
40 to 48	53	105	35	38	Q	1,049	1,988	1,296	1,901	680	50.7	52.7	26.9	19.8	16.6
49 to 60	107	116	70	57	12	2,297	3,050	1,525	2,372	948	46.8	38.1	45.8	24.2	12.9
61 to 84	71	108	53	58	14	1,182	2,237	1,450	2,020	579	59.8	48.5	36.6	28.9	24.6
85 to 167	68	74	43	50	13	1,127	1,348	1,060	1,107	582	60.5	55.0	40.6	45.5	22.9
Open Continuously	97	205	119	121	65	1,514	2,691	2,548	2,364	1,294	63.9	76.2	46.8	51.1	50.1
Ownership and Occupancy															
Nongovernment Owned	325	485	279	274	95	5,871	9,578	6,537	8,201	3,131	55.3	50.6	42.7	33.4	30.4
Owner Occupied	142	248	147	118	31	2,758	4,941	3,647	3,859	1,343	51.6	50.1	40.3	30.5	23.4
Nonowner Occupied	180	226	131	155	64	3,003	4,009	2,859	4,260	1,755	60.0	56.3	45.7	36.4	36.3
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	94	174	48	74	23	1,774	3,273	1,576	2,308	1,219	52.8	53.1	30.2	31.8	19.2
Federal	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	15.8	Q	Q
State	13	28	13	34	Q	375	447	414	878	Q	34.9	62.8	31.7	38.5	Q
Local	78	125	30	36	15	1,331	2,281	872	1,289	856	58.2	54.7	34.3	27.6	17.2
Vacancy Status															
Completely Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	38.2	Q	5.2
Partially Vacant	88	108	59	33	21	1,640	2,503	1,679	1,515	1,110	53.4	43.0	35.2	21.8	18.9
Not At All Vacant	323	539	262	313	98	5,798	9,691	6,297	8,868	3,192	55.7	55.6	41.6	35.3	30.6
Number of Establishments															
One	300	501	247	289	80	5,184	9,094	5,555	7,980	2,706	58.0	55.1	44.4	36.2	29.7
2 to 5	96	104	36	37	24	1,838	2,164	1,402	1,528	661	52.3	48.2	25.5	24.2	37.0
6 to 10	14	20	Q	Q	Q	360	393	Q	Q	Q	39.0	50.8	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Total Natural Gas Consumption (billion cubic feet)					Total Floorspace of Buildings Using Natural Gas (million square feet)					Natural Gas Energy Intensity (cubic feet/square foot)				
	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*	418	659	327	347	119	7,645	12,850	8,113	10,509	4,350	54.7	51.3	40.3	33.0	27.3
Predominant Exterior Wall Material															
Brick, Stone or Stucco	211	419	199	197	68	3,414	7,509	4,772	5,721	2,134	61.7	55.7	41.7	34.4	31.9
Concrete (Block or Poured)	99	92	63	67	19	1,712	1,918	1,231	1,695	767	57.7	48.1	51.3	39.4	24.7
Concrete Panels	43	70	28	21	13	788	1,144	969	938	840	54.7	61.3	28.9	22.0	15.0
Siding or Shingles	17	33	Q	Q	Q	501	833	Q	Q	Q	34.6	39.1	Q	Q	Q
Metal Panels	41	24	19	35	Q	1,017	774	592	1,424	Q	40.4	31.1	32.0	24.4	Q
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	28.3	Q
Predominant Roof Material															
Built-Up	156	240	138	143	43	2,588	4,234	2,924	3,909	1,554	60.3	56.7	47.3	36.6	27.7
Shingles (Not Wood)	67	111	51	61	11	1,115	2,379	983	1,594	448	59.7	46.8	51.7	38.3	24.5
Metal Surfacing	61	44	21	50	Q	1,500	1,111	656	1,913	601	40.9	39.4	32.3	25.9	20.7
Synthetic or Rubber	112	221	90	61	42	1,998	4,257	2,281	2,049	1,254	56.1	51.9	39.4	29.6	33.6
Slate or Tile	Q	20	Q	24	Q	Q	370	Q	627	Q	Q	54.9	Q	37.6	Q
Wooden Materials	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	N	Q	Q	Q	Q	N	Q	Q	Q	Q	N
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)															
Any Type of Renovation Since 1980	168	254	116	94	33	2,731	4,313	2,969	2,478	780	61.4	58.8	39.0	37.7	41.8
Addition or Annex	88	102	40	47	18	1,351	1,594	987	756	348	65.2	64.0	Q	62.2	52.7
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	140	171	84	61	25	2,172	2,912	2,428	1,918	642	64.7	58.8	34.7	31.6	39.6
Wall or Roof Replacement	81	96	47	29	17	1,327	1,835	1,727	1,046	393	61.2	52.3	27.0	27.6	43.5
Interior Wall Re-Configuration	98	122	57	38	17	1,605	1,958	1,881	1,162	413	61.0	62.2	30.2	33.0	40.1
HVAC Equipment Upgrade	123	154	88	68	20	1,956	2,537	1,996	1,488	506	62.7	60.7	44.0	46.0	39.6
Lighting Upgrade	121	138	66	45	Q	1,971	2,467	1,890	1,391	385	61.3	55.9	35.1	32.3	40.1
Window Replacement	70	102	41	19	Q	1,118	1,732	1,523	495	Q	62.5	58.9	26.7	38.4	Q
Plumbing System Upgrade	83	96	52	35	Q	1,272	1,545	1,588	1,051	Q	65.5	62.1	32.5	33.5	Q
Insulation Upgrade	38	38	28	20	Q	696	836	773	484	Q	55.1	45.2	36.1	41.0	Q
Other Renovation	Q	Q	Q	Q	N	Q	Q	Q	Q	N	Q	Q	Q	Q	N
No Renovations Since 1980	129	177	94	74	23	2,243	3,905	2,453	2,432	1,087	57.6	45.3	38.1	30.5	21.1
Building Newer than 1980	121	228	117	179	63	2,671	4,632	2,692	5,600	2,483	45.4	49.3	43.6	32.0	25.4
Energy Sources (more than one may apply)															
Electricity	418	659	327	347	119	7,644	12,850	8,113	10,509	4,345	54.7	51.3	40.3	33.0	27.3
Natural Gas	418	659	327	347	119	7,645	12,850	8,113	10,509	4,350	54.7	51.3	40.3	33.0	27.3
Fuel Oil	81	159	125	92	34	1,255	2,450	3,550	1,907	1,221	64.7	64.9	35.3	48.1	28.1
District Heat	Q	Q	Q	Q	Q	347	789	593	Q	Q	Q	22.1	Q	Q	Q
District Chilled Water	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Propane	Q	37	Q	Q	Q	Q	789	Q	Q	Q	Q	46.7	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Total Natural Gas Consumption (billion cubic feet)					Total Floorspace of Buildings Using Natural Gas (million square feet)					Natural Gas Energy Intensity (cubic feet/square foot)				
	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*	418	659	327	347	119	7,645	12,850	8,113	10,509	4,350	54.7	51.3	40.3	33.0	27.3
Space-Heating Energy Sources															
Natural Gas	407	637	302	316	88	7,142	11,538	6,236	9,362	2,679	56.9	55.2	48.4	33.7	32.8
Natural Gas Main	381	603	286	288	78	6,515	10,640	5,617	7,965	2,233	58.5	56.7	50.9	36.2	35.0
Natural Gas Secondary	26	33	16	28	10	627	898	620	1,397	446	41.2	37.2	26.5	19.7	21.7
Other Excluding Natural Gas	Q	21	22	20	30	498	1,267	Q	925	1,452	21.3	16.2	Q	21.2	20.5
Buildings without Heating	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	483.0	Q	Q
Primary Space-Heating Energy Source															
Electricity	31	41	25	38	36	700	1,206	759	1,933	1,564	44.5	34.2	32.7	19.7	22.9
Natural Gas	381	603	286	288	78	6,515	10,640	5,617	7,965	2,233	58.5	56.7	50.9	36.2	35.0
Fuel Oil	Q	Q	Q	Q	N	Q	Q	Q	Q	N	Q	Q	Q	Q	N
District Heat	3	Q	Q	Q	Q	331	Q	482	Q	Q	8.2	Q	5.6	Q	Q
Propane	N	N	N	Q	N	N	N	N	Q	N	N	N	N	Q	N
Other	Q	Q	Q	Q	N	Q	Q	Q	Q	N	Q	Q	Q	Q	N
Cooling Energy Sources															
Natural Gas	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other Excluding Natural Gas	383	577	282	319	115	6,959	11,282	7,651	9,806	4,307	55.0	51.2	36.9	32.5	26.8
Buildings without Cooling	27	47	Q	15	Q	587	1,213	Q	469	Q	46.3	38.8	Q	32.4	Q
Water-Heating Energy Sources															
Natural Gas	335	497	253	278	101	5,482	8,466	4,892	7,068	2,913	61.2	58.7	51.6	39.3	34.7
Other Excluding Natural Gas	76	136	68	56	15	1,792	3,649	2,994	2,689	1,189	42.5	37.2	22.8	20.6	12.5
Bldgs without Water Heating	Q	26	Q	14	Q	Q	735	Q	752	Q	Q	35.8	Q	18.2	Q
Cooking Energy Sources															
Natural Gas	152	262	153	189	75	2,217	4,071	3,464	3,518	2,167	68.4	64.3	44.2	53.6	34.8
Other Excluding Natural Gas	29	71	15	10	Q	511	1,343	559	396	410	57.6	52.8	26.3	25.9	27.5
Buildings without Cooking	237	326	159	148	32	4,917	7,437	4,091	6,594	1,773	48.3	43.9	38.8	22.5	18.0
Energy End Uses (more than one may apply)															
Buildings with Space Heating	417	657	324	336	118	7,640	12,805	8,109	10,288	4,132	54.6	51.3	40.0	32.6	28.4
Buildings with Cooling	391	612	312	332	119	7,058	11,637	7,942	10,040	4,345	55.4	52.6	39.3	33.1	27.3
Buildings with Water Heating	411	632	321	333	116	7,274	12,115	7,886	9,757	4,102	56.6	52.2	40.7	34.2	28.2
Buildings with Cooking	181	332	168	199	87	2,728	5,413	4,023	3,915	2,577	66.4	61.4	41.7	50.8	33.7
Buildings with Manufacturing	25	19	37	16	Q	522	480	692	522	Q	47.3	38.8	53.9	31.3	Q
Buildings with Electricity Generation	85	198	102	102	32	1,418	3,236	2,236	2,260	1,252	60.1	61.1	45.4	45.1	25.3
Percent of Floorspace Heated															
Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	483.0	Q	Q
1 to 50	20	22	27	22	3	597	770	946	1,242	451	32.8	28.7	28.9	18.1	6.2
51 to 99	66	62	52	57	22	1,082	1,350	1,132	1,879	522	61.3	46.2	45.8	30.3	42.9
100	331	573	245	256	92	5,961	10,685	6,030	7,167	3,159	55.6	53.6	40.7	35.7	29.2
Percent of Floorspace Cooled															
Not Cooled	27	47	Q	15	Q	587	1,213	Q	469	Q	46.3	38.8	Q	32.4	Q
1 to 50	129	159	86	53	Q	2,420	3,668	2,787	2,595	661	53.3	43.4	30.9	20.3	16.9
51 to 99	110	155	81	70	21	1,984	2,806	2,197	2,050	694	55.2	55.4	36.9	34.4	30.3
100	153	297	145	209	86	2,654	5,162	2,958	5,395	2,990	57.6	57.5	49.1	38.7	28.9

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

	Total Natural Gas Consumption (billion cubic feet)					Total Floorspace of Buildings Using Natural Gas (million square feet)					Natural Gas Energy Intensity (cubic feet/square foot)				
	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*	418	659	327	347	119	7,645	12,850	8,113	10,509	4,350	54.7	51.3	40.3	33.0	27.3
Heating Equipment (more than one may apply)															
Heat Pumps	30	63	42	62	20	540	951	1,274	2,090	698	56.3	65.8	32.8	29.8	28.9
Packaged Heat Pumps	Q	Q	25	Q	13	Q	655	778	1,093	505	Q	66.1	32.1	Q	26.6
Split-System Heat Pumps	Q	Q	Q	17	Q	Q	Q	Q	640	Q	Q	Q	Q	27.3	Q
Individual Room Heat Pumps	Q	Q	15	17	Q	Q	Q	449	762	Q	Q	Q	32.8	22.3	Q
Furnaces	168	248	87	119	31	3,534	5,239	1,911	3,529	1,091	47.6	47.3	45.6	33.8	28.1
Individual Space Heaters	108	120	72	52	16	2,259	2,849	1,662	1,685	513	47.6	42.2	43.1	30.9	31.9
District Heat	Q	Q	Q	Q	Q	323	Q	511	Q	Q	Q	Q	Q	Q	Q
Boilers	227	383	204	148	47	3,450	5,903	4,328	3,273	1,219	65.7	64.8	47.2	45.2	38.3
Packaged Heating Units	105	180	94	131	54	1,863	3,229	2,380	4,441	1,704	56.4	55.9	39.4	29.5	31.7
Other	17	14	Q	Q	Q	499	393	Q	Q	Q	33.7	35.7	Q	Q	Q
Cooling Equipment (more than one may apply)															
Residential-Type Central Air Conditioners	104	132	71	53	18	1,670	2,493	1,708	1,418	692	62.5	52.8	41.8	37.7	26.4
Heat Pumps	31	68	44	63	20	568	1,036	1,271	2,216	740	54.6	65.9	34.9	28.4	27.5
Packaged Heat Pumps	19	Q	27	Q	13	320	721	818	1,015	478	60.1	67.0	33.3	Q	28.0
Split-System Heat Pumps	Q	Q	Q	19	Q	Q	Q	Q	645	Q	Q	Q	Q	28.9	Q
Individual Room Heat Pumps	Q	Q	15	18	Q	Q	Q	412	931	Q	Q	Q	35.7	19.7	Q
Individual Air Conditioners	109	155	59	58	18	1,766	2,730	2,149	1,739	729	61.8	56.7	27.3	33.1	24.4
District Chilled Water	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Central Chillers	84	176	103	77	47	1,360	2,353	1,824	2,057	1,505	61.5	74.7	56.2	37.4	31.0
Packaged Air Conditioning Units	235	373	186	202	61	4,195	6,748	4,769	6,199	1,896	56.1	55.3	39.0	32.5	32.0
Swamp Coolers	31	Q	Q	Q	Q	500	Q	Q	Q	Q	61.4	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)															
Heating	132	229	108	90	27	2,495	3,951	2,409	2,310	1,111	53.0	58.0	44.9	39.0	24.4
Cooling	171	292	144	105	43	2,936	4,728	3,755	3,021	1,608	58.1	61.8	38.4	34.8	27.0
Water Heating Equipment															
Centralized System	285	402	199	224	79	4,862	7,466	4,960	5,532	2,533	58.6	53.9	40.1	40.6	31.2
Distributed System	48	97	36	47	18	973	2,378	1,428	2,135	645	49.7	40.9	25.4	22.2	27.2
Combination of Centralized and Distributed System	78	133	86	62	19	1,439	2,271	1,498	2,090	924	54.4	58.5	57.3	29.5	20.7
Energy-Related Space Functions (more than one may apply)															
Commercial Food Preparation	181	332	168	199	87	2,728	5,402	4,023	3,915	2,577	66.4	61.4	41.7	50.8	33.7
Activities with Large Amounts of Hot Water	193	296	139	204	71	2,903	4,514	3,303	3,485	1,818	66.4	65.5	42.2	58.5	39.2
Separate Computer Area	158	332	164	135	60	3,065	5,960	4,677	4,731	2,182	51.4	55.8	35.0	28.5	27.4
HVAC Conservation Features (more than one may apply)															
Variable Air-Volume System	135	246	129	127	51	2,506	4,172	2,922	2,931	2,063	53.8	59.0	44.2	43.2	24.8
Economizer Cycle	185	298	125	122	50	3,349	4,824	3,401	3,573	1,508	55.3	61.9	36.9	34.2	33.0
HVAC Maintenance	342	577	282	302	106	6,236	10,916	7,234	8,831	3,767	54.8	52.8	39.0	34.2	28.2
Energy Management and Control System (EMCS)	103	170	79	73	37	2,071	3,275	2,224	2,549	1,507	50.0	51.9	35.7	28.7	24.6

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

	Total Natural Gas Consumption (billion cubic feet)					Total Floorspace of Buildings Using Natural Gas (million square feet)					Natural Gas Energy Intensity (cubic feet/square foot)				
	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*	418	659	327	347	119	7,645	12,850	8,113	10,509	4,350	54.7	51.3	40.3	33.0	27.3
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[b]															
Heating	271	445	252	205	82	5,471	9,069	6,259	7,493	2,887	49.4	49.0	40.2	27.3	28.3
Cooling	273	421	244	218	94	5,274	8,512	6,533	7,662	3,457	51.8	49.5	37.3	28.4	27.1
Lighting	309	432	201	218	52	5,799	9,297	5,309	7,796	2,869	53.3	46.5	37.8	28.0	18.3
Office Equipment	127	171	84	65	16	2,606	4,072	2,335	2,753	904	48.6	41.9	35.9	23.6	17.5
Annual Consumption (hundred cubic feet)															
1,000 or Less	7	9	4	13	3	512	709	863	1,556	697	13.5	12.8	Q	8.2	3.8
1,001 to 5,000	51	84	36	59	12	1,598	2,690	1,425	3,143	878	31.7	31.4	24.9	18.9	13.5
5,001 to 10,000	62	84	37	37	19	1,132	1,782	967	1,343	1,030	55.2	47.1	38.5	27.5	18.1
10,001 to 25,000	94	111	51	65	27	1,515	2,388	1,535	1,658	671	62.0	46.7	33.5	39.0	40.4
25,001 to 50,000	74	86	50	60	Q	1,198	1,780	1,309	842	405	61.6	48.4	38.0	71.3	34.6
50,001 to 100,000	39	75	58	Q	Q	673	1,321	859	Q	Q	58.6	56.6	67.1	Q	Q
Over 100,000	91	209	91	83	36	1,017	2,181	1,155	1,022	499	89.7	95.7	78.7	81.2	71.6
Provider of Natural Gas (more than one may apply)															
Local Utility	360	532	269	312	109	6,785	10,649	7,347	9,557	4,024	53.1	49.9	36.6	32.6	27.1
Some Other Provider	80	159	81	42	Q	1,143	2,543	1,276	1,032	Q	69.8	62.6	63.6	40.5	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 3.8 percent of total natural gas consumption.

[a] Climate zone (30-year average) definitions: Zone 1 = Under 2,000 CDD and more than 7,000 HDD; Zone 2 = Under 2,000 CDD and 5,500-7,000 HDD; Zone 3 = Under 2,000 CDD and 4,000-5,499 HDD; Zone 4 = Under 2,000 CDD and fewer than 4,000 HDD; Zone 5 = 2,000 CDD or more and fewer than 4,000 HDD. (See "Glossary" for definitions of CDD and HDD.)

[b] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use natural gas.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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*	445	786	638	6,776	19,761	16,931	65.7	39.8	37.7
Principal Building Activity									
Education	Q	137	101	419	3,629	2,997	53.9	37.6	33.7
Food Sales	16	Q	Q	339	Q	Q	46.6	Q	Q
Food Service	149	48	N	774	622	N	192.5	77.2	N
Health Care	12	37	187	233	520	1,792	49.5	70.8	104.4
Inpatient	N	Q	181	N	Q	1,662	N	Q	109.0
Outpatient	12	20	Q	233	377	Q	49.5	52.3	Q
Lodging	Q	83	113	Q	1,750	2,374	Q	47.6	47.4
Retail (Other Than Mall)	38	39	12	726	1,406	734	52.7	27.7	15.7
Office	59	115	87	1,400	3,138	3,670	42.4	36.7	23.7
Public Assembly	19	54	26	464	1,259	1,000	41.5	42.9	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	28	49	Q	663	1,785	Q	42.7	27.7	Q
Service	55	71	Q	783	1,394	Q	69.8	50.7	Q
Warehouse and Storage	18	66	45	522	2,538	2,434	34.2	26.0	18.4
Other	Q	42	38	Q	458	681	Q	91.1	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	32	76	31	569	1,532	658	56.6	49.4	47.1
1920 to 1945	61	90	71	987	1,917	1,776	62.1	47.2	39.9
1946 to 1959	48	94	68	797	2,407	1,455	60.0	39.1	46.7
1960 to 1969	47	123	78	867	2,894	1,873	53.8	42.5	41.7
1970 to 1979	82	117	142	1,225	3,166	3,268	66.7	37.0	43.5
1980 to 1989	60	114	108	855	2,727	2,887	70.2	41.9	37.5
1990 to 1999	97	123	85	1,189	3,634	3,353	81.2	33.9	25.2
2000 to 2003	19	48	55	287	1,484	1,660	65.7	32.6	33.4
Census Region and Division									
Northeast	84	155	176	1,134	3,795	4,251	74.4	40.7	41.5
New England	Q	28	Q	Q	772	Q	Q	35.7	Q
Middle Atlantic	73	127	143	899	3,024	3,793	80.9	42.0	37.7
Midwest	148	327	208	2,033	6,628	4,501	72.7	49.4	46.2
East North Central	111	234	167	1,382	4,656	3,531	80.6	50.2	47.3
West North Central	36	94	41	651	1,972	970	56.0	47.4	42.4
South	129	175	156	2,218	5,808	5,285	58.2	30.2	29.5
South Atlantic	59	72	79	946	2,508	2,873	61.9	28.9	27.6
East South Central	18	53	27	418	1,387	476	43.7	38.3	57.5
West South Central	52	50	49	854	1,914	1,936	61.3	26.0	25.4
West	84	129	98	1,391	3,529	2,893	60.1	36.6	33.9
Mountain	35	69	58	532	1,318	947	66.4	52.1	61.3
Pacific	48	60	40	859	2,211	1,947	56.3	27.3	20.6
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	103	202	114	1,304	3,972	2,369	78.8	50.8	48.1
5,500-7,000 HDD	134	278	247	1,923	6,102	4,824	69.9	45.5	51.1
4,000-5,499 HDD	62	143	121	948	3,289	3,877	65.1	43.6	31.3
Fewer than 4,000 HDD	114	122	111	2,001	4,792	3,717	57.2	25.4	29.8
2,000 CDD or More and --									
Fewer than 4,000 HDD	32	41	46	601	1,606	2,144	52.8	25.8	21.2

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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*	445	786	638	6,776	19,761	16,931	65.7	39.8	37.7
Number of Floors									
One	301	287	56	4,443	7,865	2,632	67.7	36.5	21.3
Two	100	268	109	1,638	6,281	3,522	60.8	42.7	30.8
Three	39	116	78	614	3,190	1,864	64.3	36.3	41.9
Four to Nine	Q	110	252	Q	2,339	5,250	Q	46.9	48.0
Ten or More	N	Q	143	N	Q	3,663	N	Q	39.1
Number of Workers (main shift)									
Fewer than 5	175	77	Q	3,395	3,081	Q	51.6	25.2	Q
5 to 9	108	80	Q	1,575	2,330	Q	68.6	34.2	Q
10 to 19	96	120	Q	1,110	3,353	Q	86.8	35.8	Q
20 to 49	59	279	45	635	5,694	1,883	92.4	49.1	23.8
50 to 99	Q	140	87	Q	3,265	2,834	Q	42.8	30.8
100 to 249	Q	75	153	Q	1,709	3,414	Q	43.6	44.8
250 or More	N	15	319	N	329	7,220	N	45.8	44.2
Weekly Operating Hours									
Fewer than 40	55	37	Q	1,239	1,460	Q	44.5	25.4	Q
40 to 48	74	132	36	1,787	3,605	1,521	41.5	36.6	23.4
49 to 60	88	209	66	1,636	5,552	3,003	53.8	37.7	21.9
61 to 84	90	153	62	945	3,915	2,607	95.3	39.1	23.6
85 to 167	94	104	52	691	2,141	2,393	135.5	48.5	21.6
Open Continuously	44	151	412	477	3,088	6,846	92.1	48.9	60.2
Ownership and Occupancy									
Nongovernment Owned	403	601	453	6,048	15,230	12,039	66.7	39.5	37.7
Owner Occupied	166	272	248	3,099	7,592	5,856	53.7	35.8	42.4
Nonowner Occupied	234	323	198	2,881	7,222	5,783	81.4	44.8	34.2
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	42	185	185	728	4,531	4,891	57.4	40.9	37.8
Federal	Q	Q	23	Q	Q	765	Q	Q	30.3
State	Q	39	44	Q	1,036	1,295	Q	37.3	34.0
Local	27	138	118	583	3,215	2,831	46.3	42.9	41.6
Vacancy Status									
Completely Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	29	130	150	618	2,912	4,916	46.3	44.5	30.5
Not At All Vacant	413	641	480	6,071	16,209	11,565	68.1	39.5	41.5
Number of Establishments									
One	384	604	430	5,549	14,298	10,672	69.2	42.2	40.3
2 to 5	54	139	105	1,065	3,911	2,617	50.6	35.5	40.1
6 to 10	Q	25	18	Q	625	664	Q	39.3	27.4
11 to 20	N	8	25	N	386	885	N	21.3	28.3
More than 20	Q	Q	51	Q	Q	1,655	Q	Q	31.1
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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*	445	786	638	6,776	19,761	16,931	65.7	39.8	37.7
Predominant Exterior Wall Material									
Brick, Stone or Stucco	270	454	370	3,722	11,431	8,398	72.5	39.7	44.0
Concrete (Block or Poured)	75	165	100	1,102	3,702	2,520	67.9	44.6	39.7
Concrete Panels	Q	59	101	Q	1,217	3,292	Q	48.1	30.7
Siding or Shingles	42	33	Q	720	996	Q	58.0	33.5	Q
Metal Panels	38	62	26	903	1,991	1,129	41.5	31.4	23.4
Window Glass	Q	Q	9	Q	Q	549	Q	Q	17.1
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material									
Built-Up	149	297	275	1,736	6,828	6,644	85.8	43.4	41.4
Shingles (Not Wood)	108	133	59	2,009	3,345	1,165	54.0	39.7	50.9
Metal Surfacing	64	100	25	1,350	3,225	1,206	47.1	30.9	20.7
Synthetic or Rubber	80	189	257	922	4,482	6,434	86.7	42.1	40.0
Slate or Tile	28	33	Q	418	935	Q	67.2	35.8	Q
Wooden Materials	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	118	273	271	1,767	5,857	5,646	67.0	46.7	48.0
Addition or Annex	28	110	157	391	2,028	2,618	72.9	54.3	59.8
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	85	195	202	1,296	4,379	4,398	65.5	44.5	46.0
Wall or Roof Replacement	40	91	139	736	2,253	3,338	54.1	40.3	41.7
Interior Wall Re-Configuration	46	108	178	770	2,479	3,769	59.7	43.5	47.1
HVAC Equipment Upgrade	51	181	220	769	3,566	4,148	66.8	50.8	53.1
Lighting Upgrade	46	153	187	793	3,286	4,025	58.0	46.5	46.4
Window Replacement	34	99	102	539	2,206	2,255	63.9	44.9	45.1
Plumbing System Upgrade	44	91	142	570	2,049	3,095	77.8	44.6	46.0
Insulation Upgrade	18	49	60	341	1,285	1,334	54.2	38.4	44.9
Other Renovation	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	151	227	119	2,678	6,058	3,384	56.5	37.4	35.1
Building Newer than 1980	175	286	248	2,331	7,845	7,900	75.3	36.4	31.4
Energy Sources (more than one may apply)									
Electricity	445	786	638	6,775	19,761	16,926	65.7	39.8	37.7
Natural Gas	445	786	638	6,776	19,761	16,931	65.7	39.8	37.7
Fuel Oil	Q	97	385	Q	2,030	8,102	Q	47.5	47.5
District Heat	Q	Q	40	Q	Q	1,955	Q	Q	20.3
District Chilled Water	Q	Q	21	Q	Q	1,375	Q	Q	15.5
Propane	Q	26	67	Q	696	1,672	Q	37.1	40.2
Other	Q	17	24	Q	437	334	Q	39.4	72.3

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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*	445	786	638	6,776	19,761	16,931	65.7	39.8	37.7
Space-Heating Energy Sources									
Natural Gas	401	740	608	6,187	17,733	13,038	64.8	41.7	46.6
Natural Gas Main	376	689	572	5,741	15,927	11,302	65.4	43.2	50.6
Natural Gas Secondary	25	51	36	446	1,807	1,736	56.2	28.5	20.9
Other Excluding Natural Gas	30	43	29	454	1,878	3,683	66.9	23.1	7.9
Buildings without Heating	Q	Q	Q	Q	Q	Q	Q	Q	Q
Primary Space-Heating Energy Source									
Electricity	52	85	35	749	2,816	2,597	69.4	30.0	13.3
Natural Gas	376	689	572	5,741	15,927	11,302	65.4	43.2	50.6
Fuel Oil	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Heat	Q	Q	18	Q	Q	1,672	Q	Q	11.0
Propane	N	Q	N	N	Q	N	N	Q	N
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling Energy Sources									
Natural Gas	Q	Q	66	Q	Q	683	Q	Q	96.1
Other Excluding Natural Gas	397	725	554	6,098	18,102	15,806	65.2	40.1	35.1
Buildings without Cooling	43	42	Q	641	1,362	Q	66.8	31.0	Q
Water-Heating Energy Sources									
Natural Gas	316	604	543	3,995	13,529	11,296	79.1	44.6	48.1
Other Excluding Natural Gas	107	153	91	2,024	4,942	5,348	52.8	30.9	17.0
Bldgs without Water Heating	22	29	Q	757	1,290	Q	29.1	22.9	Q
Cooking Energy Sources									
Natural Gas	173	246	412	1,190	4,975	9,273	145.1	49.3	44.5
Other Excluding Natural Gas	13	53	70	201	1,549	1,468	63.1	34.5	47.9
Buildings without Cooking	260	487	156	5,385	13,237	6,190	48.2	36.8	25.2
Energy End Uses (more than one may apply)									
Buildings with Space Heating	431	783	637	6,641	19,611	16,722	64.9	40.0	38.1
Buildings with Cooling	402	744	620	6,135	18,399	16,489	65.6	40.4	37.6
Buildings with Water Heating	423	757	634	6,019	18,471	16,644	70.3	41.0	38.1
Buildings with Cooking	185	299	483	1,391	6,524	10,741	133.3	45.8	44.9
Buildings with Manufacturing	Q	47	43	Q	938	1,164	Q	49.8	36.8
Buildings with Electricity Generation	Q	124	388	Q	2,431	7,893	Q	50.9	49.1
Percent of Floorspace Heated									
Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	34	51	9	712	2,271	1,024	48.3	22.6	8.4
51 to 99	60	97	103	930	2,420	2,615	64.1	40.2	39.3
100	337	635	526	4,999	14,920	13,083	67.4	42.5	40.2

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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*	445	786	638	6,776	19,761	16,931	65.7	39.8	37.7
Percent of Floorspace Cooled									
Not Cooled	43	42	Q	641	1,362	Q	66.8	31.0	Q
1 to 50	84	250	104	1,708	6,358	4,066	49.2	39.3	25.6
51 to 99	79	154	205	1,136	3,879	4,717	69.1	39.6	43.5
100	240	340	310	3,291	8,162	7,706	72.8	41.7	40.3
Heating Equipment (more than one may apply)									
Heat Pumps	19	82	116	294	2,402	2,857	65.8	34.0	40.7
Packaged Heat Pumps	Q	45	79	Q	1,359	1,801	Q	33.0	43.9
Split-System Heat Pumps	Q	22	12	Q	738	600	Q	30.5	20.7
Individual Room Heat Pumps	Q	33	46	Q	881	1,298	Q	38.0	35.4
Furnaces	234	278	140	4,068	7,668	3,568	57.6	36.3	39.3
Individual Space Heaters	65	169	134	1,210	4,315	3,444	53.4	39.2	38.9
District Heat	Q	Q	32	Q	Q	1,813	Q	Q	17.7
Boilers	66	405	538	741	7,270	10,163	89.3	55.7	52.9
Packaged Heating Units	134	235	196	1,633	6,393	5,592	81.8	36.7	35.1
Other	Q	23	14	Q	636	941	Q	36.1	15.2
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	112	164	103	2,034	3,775	2,173	55.1	43.4	47.6
Heat Pumps	28	82	117	415	2,373	3,043	68.2	34.4	38.4
Packaged Heat Pumps	Q	44	79	Q	1,315	1,784	Q	33.6	44.0
Split-System Heat Pumps	Q	23	12	Q	753	589	Q	30.6	20.2
Individual Room Heat Pumps	Q	33	48	Q	851	1,513	Q	39.1	31.4
Individual Air Conditioners	53	177	168	922	4,330	3,862	58.0	40.9	43.4
District Chilled Water	Q	Q	21	Q	Q	1,375	Q	Q	15.5
Central Chillers	Q	120	363	Q	2,163	6,896	Q	55.5	52.7
Packaged Air Conditioning Units	232	444	381	3,180	10,963	9,663	73.0	40.5	39.4
Swamp Coolers	23	41	Q	218	703	Q	105.9	58.0	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	123	301	162	1,980	6,674	3,621	62.3	45.2	44.7
Cooling	152	349	255	2,507	7,544	5,997	60.4	46.2	42.6
Water Heating Equipment									
Centralized System	333	528	328	4,557	12,516	8,279	73.1	42.2	39.6
Distributed System	77	108	62	1,283	3,389	2,887	59.7	31.9	21.5
Combination of Centralized and Distributed System	Q	120	244	Q	2,566	5,478	Q	46.9	44.6
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	185	298	483	1,391	6,512	10,741	133.3	45.8	44.9
Activities with Large Amounts of Hot Water	157	290	455	1,022	5,671	9,329	153.5	51.2	48.8
Separate Computer Area	28	307	513	578	7,533	12,505	49.3	40.8	41.0

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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*	445	786	638	6,776	19,761	16,931	65.7	39.8	37.7
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	67	213	409	665	4,638	9,292	100.5	45.8	44.0
Economizer Cycle	63	271	447	704	5,534	10,418	88.9	49.0	42.9
HVAC Maintenance	312	669	628	4,256	16,257	16,471	73.4	41.1	38.1
Energy Management and Control System (EMCS)	Q	155	287	Q	3,554	7,882	Q	43.7	36.4
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	300	548	405	4,846	14,185	12,149	61.9	38.6	33.4
Cooling	302	551	396	4,731	14,114	12,593	63.8	39.0	31.5
Lighting	388	613	212	5,980	15,710	9,381	64.8	39.0	22.6
Office Equipment	137	246	79	2,579	6,854	3,237	53.1	36.0	24.3
Annual Consumption (hundred cubic feet)									
1,000 or Less	32	3	Q	2,069	1,293	974	15.7	2.1	0.2
1,001 to 5,000	168	72	2	3,508	5,095	1,128	47.9	14.1	1.4
5,001 to 10,000	107	127	5	714	4,273	1,266	150.2	29.8	3.6
10,001 to 25,000	93	239	17	390	5,306	2,071	239.5	45.0	8.0
25,001 to 50,000	Q	193	47	Q	2,755	2,685	Q	70.0	17.5
50,001 to 100,000	N	108	103	N	844	3,125	N	127.4	33.1
Over 100,000	N	Q	465	N	Q	5,681	N	Q	81.8
Provider of Natural Gas (more than one may apply)									
Local Utility	422	707	453	6,480	18,272	13,611	65.1	38.7	33.3
Some Other Provider	26	100	251	336	1,653	4,383	77.2	60.7	57.2

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 3.8 percent of total natural gas consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use natural gas.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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*	571	871	427	12,097	19,763	11,608	47.2	44.1	36.8
Building Floorspace (Square Feet)									
1,001 to 5,000	85	98	59	1,222	1,214	648	69.5	81.0	91.5
5,001 to 10,000	56	90	56	1,131	1,733	828	49.8	51.9	67.7
10,001 to 25,000	103	141	57	2,392	2,909	1,752	42.9	48.4	32.3
25,001 to 50,000	90	102	58	1,827	2,700	1,498	49.3	37.7	38.7
50,001 to 100,000	68	112	57	1,636	3,178	1,869	41.4	35.1	30.5
100,001 to 200,000	63	120	59	1,501	2,745	2,399	42.0	43.6	24.5
200,001 to 500,000	45	104	50	1,496	2,748	1,435	30.1	37.8	34.8
Over 500,000	62	105	Q	893	2,535	Q	69.1	41.4	Q
Principal Building Activity									
Education	109	110	41	2,581	2,816	1,648	42.3	39.2	24.6
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	47	72	78	491	422	482	95.8	169.4	162.6
Health Care	66	131	39	633	1,410	501	104.1	92.6	77.5
Inpatient	58	112	28	444	1,141	220	130.2	98.3	128.2
Outpatient	Q	18	11	Q	269	282	Q	68.4	37.9
Lodging	38	129	41	Q	2,123	1,154	Q	61.0	35.7
Retail (Other Than Mall)	34	27	27	675	1,028	1,162	50.5	26.7	23.4
Office	91	129	42	2,109	4,459	1,640	43.0	29.0	25.3
Public Assembly	30	43	26	1,047	965	711	Q	45.0	36.4
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	37	29	14	1,086	943	600	33.7	31.2	22.7
Service	35	64	37	608	1,278	610	57.0	49.9	59.8
Warehouse and Storage	35	64	29	1,039	2,667	1,788	33.8	24.0	16.4
Other	Q	Q	29	Q	408	521	Q	75.7	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Census Region and Division									
Northeast	185	153	76	4,201	3,454	1,525	44.1	44.4	50.0
New England	30	Q	Q	677	Q	Q	44.9	Q	Q
Middle Atlantic	155	131	57	3,525	2,985	1,206	44.0	43.7	47.2
Midwest	245	310	129	4,201	5,898	3,064	58.2	52.5	42.1
East North Central	180	242	91	3,138	4,321	2,110	57.2	56.0	42.9
West North Central	65	68	38	1,063	1,577	954	61.3	42.9	40.4
South	87	213	160	2,129	6,213	4,969	40.7	34.3	32.3
South Atlantic	Q	77	86	996	2,426	2,903	48.0	31.6	29.5
East South Central	12	63	24	386	1,110	785	30.2	56.8	30.6
West South Central	27	74	51	746	2,677	1,280	36.5	27.5	39.5
West	54	195	62	1,566	4,198	2,049	34.8	46.4	30.1
Mountain	22	115	25	393	1,677	726	56.3	68.3	34.7
Pacific	32	80	36	1,173	2,521	1,323	27.6	31.8	27.5
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	142	197	80	2,237	3,425	1,984	63.3	57.6	40.1
5,500-7,000 HDD	212	327	120	4,168	5,882	2,800	50.9	55.6	42.7
4,000-5,499 HDD	131	122	74	3,161	3,207	1,745	41.4	37.9	42.5
Fewer than 4,000 HDD	70	168	110	1,966	5,054	3,489	35.4	33.2	31.5
2,000 CDD or More and --									
Fewer than 4,000 HDD	17	57	44	565	2,195	1,590	30.7	26.1	27.6

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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*	571	871	427	12,097	19,763	11,608	47.2	44.1	36.8
Number of Floors									
One	117	312	214	2,559	7,157	5,224	45.6	43.7	41.0
Two	153	237	86	3,223	5,432	2,786	47.5	43.7	30.8
Three	119	71	43	2,688	1,666	1,313	44.3	42.8	32.9
Four to Nine	132	176	60	2,602	3,266	1,802	50.6	53.8	33.0
Ten or More	51	74	Q	1,025	2,242	Q	49.4	33.1	Q
Number of Workers (main shift)									
Fewer than 5	100	112	53	2,447	2,975	1,601	40.7	37.7	32.8
5 to 9	66	80	46	1,359	1,696	1,029	48.7	47.1	44.8
10 to 19	85	89	60	2,026	1,886	1,406	42.2	47.4	42.8
20 to 49	117	172	94	2,622	3,332	2,258	44.7	51.6	41.4
50 to 99	62	116	56	1,136	3,005	2,016	54.9	38.5	27.8
100 to 249	62	111	55	1,147	2,613	1,367	53.9	42.5	40.0
250 or More	79	191	64	1,361	4,256	1,932	57.8	44.9	33.3
Weekly Operating Hours									
Fewer than 40	40	50	14	1,120	1,487	653	35.8	33.5	21.5
40 to 48	97	107	38	2,678	2,907	1,328	36.1	36.9	28.6
49 to 60	132	158	72	2,841	4,918	2,432	46.5	32.2	29.8
61 to 84	103	132	70	2,168	3,236	2,064	47.5	40.7	34.0
85 to 167	55	103	91	1,039	2,155	2,031	53.0	47.7	45.0
Open Continuously	144	321	141	2,251	5,059	3,101	64.2	63.5	45.6
Ownership and Occupancy									
Nongovernment Owned	441	666	350	9,318	15,243	8,756	47.4	43.7	40.0
Owner Occupied	271	262	154	5,409	7,195	3,943	50.0	36.4	39.1
Nonowner Occupied	170	392	194	3,788	7,504	4,594	44.8	52.3	42.2
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	130	205	77	2,779	4,519	2,852	46.8	45.4	26.9
Federal	7	21	Q	163	569	Q	42.3	36.4	Q
State	16	67	12	477	1,360	601	32.7	49.6	20.7
Local	108	117	58	2,139	2,591	1,900	50.3	45.1	30.5
Vacancy Status									
Completely Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	125	135	48	2,555	4,155	1,737	49.0	32.5	27.6
Not At All Vacant	439	719	377	9,264	14,947	9,635	47.4	48.1	39.1
Number of Establishments									
One	421	670	327	8,689	13,334	8,496	48.4	50.3	38.5
2 to 5	99	125	74	2,172	3,365	2,056	45.3	37.1	36.1
6 to 10	15	19	Q	372	618	Q	40.2	31.2	Q
11 to 20	Q	22	Q	Q	689	Q	Q	31.8	Q
More than 20	Q	22	Q	Q	1,210	Q	Q	18.5	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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*	571	871	427	12,097	19,763	11,608	47.2	44.1	36.8
Predominant Exterior Wall Material									
Brick, Stone or Stucco	427	459	208	9,195	9,498	4,857	46.4	48.3	42.7
Concrete (Block or Poured)	103	175	62	1,883	3,739	1,701	54.8	46.7	36.4
Concrete Panels	Q	114	55	Q	2,597	1,942	Q	43.7	28.2
Siding or Shingles	24	30	29	553	685	759	42.7	44.4	37.8
Metal Panels	Q	65	51	Q	2,163	1,647	Q	30.1	31.0
Window Glass	Q	8	Q	Q	361	Q	Q	23.0	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material									
Built-Up	254	358	108	4,836	7,622	2,751	52.5	47.0	39.2
Shingles (Not Wood)	122	119	60	2,074	2,762	1,683	58.6	43.2	35.5
Metal Surfacing	17	86	85	504	2,438	2,839	33.6	35.3	30.1
Synthetic or Rubber	130	248	148	2,731	5,411	3,696	47.6	45.8	40.1
Slate or Tile	28	21	16	740	477	357	37.5	43.0	46.0
Wooden Materials	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	348	316	N	6,712	6,558	N	51.8	48.1	N
Addition or Annex	128	167	N	2,246	2,791	N	57.1	59.9	N
Reduction In Floorspace	Q	Q	N	Q	Q	N	Q	Q	N
Cosmetic Improvements	238	244	N	5,105	4,967	N	46.5	49.2	N
Wall or Roof Replacement	120	149	N	3,225	3,103	N	37.3	48.2	N
Interior Wall Re-Configuration	151	181	N	3,465	3,554	N	43.5	50.8	N
HVAC Equipment Upgrade	229	224	N	4,163	4,319	N	54.9	51.9	N
Lighting Upgrade	191	195	N	4,254	3,850	N	44.9	50.6	N
Window Replacement	141	95	N	3,280	1,720	N	42.9	55.0	N
Plumbing System Upgrade	146	132	N	3,137	2,578	N	46.5	51.3	N
Insulation Upgrade	69	59	N	1,595	1,364	N	43.3	43.0	N
Other Renovation	Q	Q	N	Q	Q	N	Q	Q	N
No Renovations Since 1980	224	273	N	5,385	6,735	N	41.6	40.5	N
Building Newer than 1980	N	282	427	N	6,469	11,608	N	43.7	36.8
Energy Sources (more than one may apply)									
Electricity	571	871	427	12,091	19,763	11,608	47.2	44.1	36.8
Natural Gas	571	871	427	12,097	19,763	11,608	47.2	44.1	36.8
Fuel Oil	138	249	104	3,084	4,932	2,367	44.6	50.6	44.1
District Heat	Q	25	Q	667	1,135	Q	Q	22.3	Q
District Chilled Water	Q	23	Q	Q	883	Q	Q	26.6	Q
Propane	Q	55	15	Q	1,250	724	Q	43.8	20.7
Other	Q	24	Q	Q	484	Q	Q	48.9	Q

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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*	571	871	427	12,097	19,763	11,608	47.2	44.1	36.8
Space-Heating Energy Sources									
Natural Gas	541	814	394	10,050	17,081	9,828	53.9	47.6	40.1
Natural Gas Main	520	754	362	9,431	15,149	8,390	55.1	49.8	43.2
Natural Gas Secondary	22	59	32	619	1,932	1,438	35.1	30.7	22.1
Other Excluding Natural Gas	26	51	26	1,937	2,502	1,576	Q	20.3	16.7
Buildings without Heating	Q	Q	Q	Q	Q	Q	Q	Q	Q
Primary Space-Heating Energy Source									
Electricity	29	90	52	726	3,223	2,213	40.5	27.8	23.6
Natural Gas	520	754	362	9,431	15,149	8,390	55.1	49.8	43.2
Fuel Oil	13	Q	Q	Q	Q	Q	Q	Q	Q
District Heat	4	16	Q	514	968	Q	7.6	16.3	Q
Propane	N	N	Q	N	N	Q	N	N	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling Energy Sources									
Natural Gas	Q	38	Q	Q	419	Q	Q	90.1	Q
Other Excluding Natural Gas	468	806	403	10,345	18,622	11,038	45.2	43.3	36.5
Buildings without Cooling	68	27	Q	1,428	722	Q	47.8	37.7	Q
Water-Heating Energy Sources									
Natural Gas	439	681	343	8,044	13,116	7,661	54.6	51.9	44.7
Other Excluding Natural Gas	107	168	76	3,013	5,766	3,534	35.5	29.1	21.4
Bldgs without Water Heating	25	22	Q	1,041	881	Q	24.2	24.8	Q
Cooking Energy Sources									
Natural Gas	264	364	203	4,847	6,307	4,284	54.4	57.7	47.4
Other Excluding Natural Gas	41	74	22	727	1,755	736	57.0	41.9	29.3
Buildings without Cooking	266	434	203	6,523	11,701	6,588	40.8	37.1	30.8
Energy End Uses (more than one may apply)									
Buildings with Space Heating	567	865	420	11,988	19,582	11,404	47.3	44.2	36.8
Buildings with Cooling	503	844	419	10,669	19,041	11,313	47.2	44.3	37.0
Buildings with Water Heating	546	849	419	11,057	18,882	11,195	49.4	45.0	37.4
Buildings with Cooking	305	437	225	5,574	8,062	5,020	54.7	54.3	44.7
Buildings with Manufacturing	35	42	20	648	1,229	424	54.5	34.4	46.9
Buildings with Electricity Generation	123	285	110	1,836	5,646	2,920	67.1	50.5	37.6
Percent of Floorspace Heated									
Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	31	35	28	1,344	1,565	1,097	23.3	22.3	25.6
51 to 99	105	92	63	2,111	2,231	1,623	49.8	41.2	38.7
100	431	738	329	8,532	15,787	8,683	50.5	46.7	37.9
Percent of Floorspace Cooled									
Not Cooled	68	27	Q	1,428	722	Q	47.8	37.7	Q
1 to 50	178	185	74	4,377	5,173	2,582	40.8	35.8	28.8
51 to 99	137	185	115	2,879	4,188	2,666	47.7	44.3	43.0
100	187	473	230	3,414	9,680	6,065	54.9	48.9	37.9

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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*	571	871	427	12,097	19,763	11,608	47.2	44.1	36.8
Heating Equipment (more than one may apply)									
Heat Pumps	52	108	58	1,122	2,673	1,757	46.0	40.5	32.7
Packaged Heat Pumps	Q	78	24	519	1,899	904	64.2	41.1	26.7
Split-System Heat Pumps	Q	18	19	Q	736	545	Q	24.4	34.2
Individual Room Heat Pumps	21	33	27	642	785	768	33.1	42.0	35.0
Furnaces	221	274	158	4,508	6,468	4,327	49.0	42.3	36.6
Individual Space Heaters	116	157	95	2,594	3,986	2,389	44.8	39.4	39.7
District Heat	Q	19	Q	652	996	Q	Q	19.3	Q
Boilers	374	472	162	6,850	8,165	3,160	54.7	57.8	51.3
Packaged Heating Units	117	260	187	2,183	6,825	4,610	53.5	38.2	40.6
Other	Q	24	14	Q	870	672	Q	27.5	21.2
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	140	149	90	2,694	3,429	1,860	52.1	43.5	48.4
Heat Pumps	61	107	59	1,182	2,705	1,945	51.8	39.5	30.2
Packaged Heat Pumps	Q	76	24	596	1,855	902	68.2	41.2	26.6
Split-System Heat Pumps	Q	18	19	Q	730	566	Q	24.1	33.4
Individual Room Heat Pumps	21	33	28	605	867	907	35.1	38.6	30.7
Individual Air Conditioners	186	156	56	4,111	3,461	1,542	45.3	45.0	36.2
District Chilled Water	Q	23	Q	Q	883	Q	Q	26.6	Q
Central Chillers	114	274	97	1,869	5,296	1,936	61.0	51.8	50.3
Packaged Air Conditioning Units	283	495	280	5,894	10,897	7,015	48.0	45.4	39.9
Swamp Coolers	Q	56	Q	Q	905	Q	Q	61.8	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	221	365	N	4,630	7,645	N	47.8	47.8	N
Cooling	274	482	N	6,085	9,963	N	45.0	48.4	N
Water Heating Equipment									
Centralized System	343	577	270	6,539	12,019	6,795	52.4	48.0	39.7
Distributed System	92	91	63	2,462	3,051	2,046	37.5	29.9	30.9
Combination of Centralized and Distributed System	111	181	86	2,055	3,813	2,354	54.0	47.5	36.4
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	304	437	225	5,563	8,062	5,020	54.7	54.3	44.7
Activities with Large Amounts of Hot Water	249	437	217	4,152	7,176	4,694	59.9	60.9	46.2
Separate Computer Area	238	418	192	5,023	10,078	5,514	47.4	41.5	34.9
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	160	335	194	2,616	7,289	4,689	61.0	45.9	41.4
Economizer Cycle	156	429	196	2,876	8,712	5,068	54.2	49.3	38.7
HVAC Maintenance	456	760	393	9,645	16,923	10,416	47.3	44.9	37.7
Energy Management and Control System (EMCS)	111	241	112	2,167	6,029	3,431	51.1	39.9	32.5

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

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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*	571	871	427	12,097	19,763	11,608	47.2	44.1	36.8
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	409	569	275	8,877	14,453	7,850	46.1	39.4	35.1
Cooling	387	566	296	8,632	14,308	8,498	44.9	39.6	34.8
Lighting	415	523	274	9,376	13,751	7,944	44.3	38.0	34.5
Office Equipment	164	189	109	4,362	4,975	3,333	37.7	37.9	32.8
Annual Consumption (hundred cubic feet)									
1,000 or Less	14	15	7	1,617	1,670	1,049	8.5	8.9	6.5
1,001 to 5,000	90	99	53	2,818	4,392	2,522	31.8	22.5	21.1
5,001 to 10,000	75	100	65	1,466	2,803	1,984	51.1	35.6	32.5
10,001 to 25,000	117	153	79	2,316	3,187	2,265	50.6	47.9	34.8
25,001 to 50,000	75	127	82	1,497	2,376	1,661	50.4	53.4	49.1
50,001 to 100,000	52	118	42	810	2,293	866	63.6	51.4	48.0
Over 100,000	149	260	101	1,572	3,042	1,261	94.8	85.4	79.9
Provider of Natural Gas (more than one may apply)									
Local Utility	463	733	385	10,701	17,234	10,427	43.2	42.6	37.0
Some Other Provider	131	188	57	1,773	3,432	1,167	74.1	54.9	48.9

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 3.8 percent of total natural gas consumption.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use natural gas.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	All Buildings* Using Fuel Oil			Fuel Oil Consumption		Fuel Oil Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million gallons)	Total (million dollars)
All Buildings*	451	15,157	34	222	1,602	1,776
Building Floorspace (Square Feet)						
1,001 to 5,000	209	600	3	34	249	292
5,001 to 10,000	99	716	7	36	261	307
10,001 to 25,000	61	966	16	27	196	232
25,001 to 50,000	22	825	38	16	117	127
50,001 to 100,000	23	1,740	76	26	188	203
100,001 to 200,000	21	2,927	141	37	263	272
200,001 to 500,000	12	3,400	294	36	258	272
Over 500,000	4	3,981	927	10	69	71
Principal Building Activity						
Education	26	1,864	70	47	342	362
Food Sales	Q	Q	Q	Q	Q	Q
Food Service	Q	Q	Q	Q	Q	Q
Health Care	13	1,882	143	11	76	79
Inpatient	7	1,683	240	9	65	67
Outpatient	Q	Q	Q	Q	Q	Q
Lodging	28	2,193	78	35	255	272
Retail (Other Than Mall)	37	501	14	Q	Q	117
Office	65	4,075	62	18	126	149
Public Assembly	42	939	23	29	208	230
Public Order and Safety	23	620	27	8	57	Q
Religious Worship	38	453	12	18	130	Q
Service	93	626	7	Q	Q	Q
Warehouse and Storage	37	1,268	34	9	66	74
Other	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q
Year Constructed						
Before 1920	75	961	13	38	273	304
1920 to 1945	52	1,986	38	54	390	417
1946 to 1959	75	2,048	27	48	347	392
1960 to 1969	61	1,685	28	Q	Q	Q
1970 to 1979	59	2,187	37	22	161	182
1980 to 1989	63	3,079	49	9	66	78
1990 to 1999	49	2,086	43	9	65	72
2000 to 2003	17	1,125	67	Q	Q	Q
Census Region and Division						
Northeast	254	6,080	24	175	1,265	1,393
New England	122	1,577	13	69	501	557
Middle Atlantic	132	4,502	34	106	764	836
Midwest	76	2,832	37	24	170	176
East North Central	35	1,871	53	Q	Q	Q
West North Central	41	961	23	Q	Q	Q
South	84	4,122	49	14	104	125
South Atlantic	59	2,639	45	13	93	112
East South Central	15	341	23	1	7	Q
West South Central	11	1,141	108	1	4	5
West	37	2,123	58	9	63	81
Mountain	10	626	Q	Q	Q	Q
Pacific	27	1,497	56	4	29	Q

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

	All Buildings* Using Fuel Oil			Fuel Oil Consumption		Fuel Oil Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million gallons)	Total (million dollars)
All Buildings*	451	15,157	34	222	1,602	1,776
Climate Zone: 30-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	145	2,499	17	63	451	471
5,500-7,000 HDD	148	4,052	27	63	455	530
4,000-5,499 HDD	97	4,628	48	90	648	713
Fewer than 4,000 HDD	49	2,337	48	6	42	54
2,000 CDD or More and --						
Fewer than 4,000 HDD	13	1,642	130	1	6	8
Number of Floors						
One	209	2,518	12	47	335	397
Two	142	2,724	19	69	496	550
Three	57	1,914	34	39	279	304
Four to Nine	34	4,101	120	55	400	428
Ten or More	9	3,899	452	13	93	97
Number of Workers (main shift)						
Fewer than 5	252	1,459	6	69	498	578
5 to 9	67	625	9	17	120	151
10 to 19	38	1,024	27	33	239	254
20 to 49	36	1,602	44	36	257	274
50 to 99	22	2,131	99	27	195	204
100 to 249	20	2,149	109	19	138	146
250 or More	16	6,168	393	22	156	169
Weekly Operating Hours						
Fewer than 40	83	576	7	15	110	133
40 to 48	107	1,994	19	58	416	457
49 to 60	100	3,015	30	32	228	260
61 to 84	55	2,089	38	40	288	309
85 to 167	35	1,508	43	18	132	151
Open Continuously	69	5,976	86	59	428	466
Ownership and Occupancy						
Nongovernment Owned	371	11,374	31	154	1,107	1,249
Owner Occupied	209	6,092	29	81	588	671
Nonowner Occupied	161	5,215	32	72	520	578
Unoccupied	Q	Q	Q	Q	Q	Q
Government Owned	80	3,783	47	69	495	526
Federal	4	381	Q	Q	Q	Q
State	24	962	40	23	166	170
Local	52	2,441	47	39	284	299
Vacancy Status						
Completely Vacant	Q	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q
Partially Vacant	49	4,346	88	30	213	231
Not At All Vacant	399	10,718	27	191	1,380	1,536

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

	All Buildings* Using Fuel Oil			Fuel Oil Consumption		Fuel Oil Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million gallons)	Total (million dollars)
All Buildings*	451	15,157	34	222	1,602	1,776
Number of Establishments						
One	373	9,213	25	183	1,318	1,466
2 to 5	65	2,657	41	28	198	224
6 to 10	6	524	94	Q	Q	Q
11 to 20	3	1,119	384	Q	Q	Q
More than 20	3	1,567	527	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q
Predominant Exterior Wall Material						
Brick, Stone or Stucco	158	7,735	49	144	1,041	1,135
Concrete (Block or Poured)	83	2,526	31	24	175	206
Concrete Panels	10	1,943	189	Q	Q	Q
Siding or Shingles	128	753	6	41	295	323
Metal Panels	63	1,171	19	8	60	77
Window Glass	2	486	198	0	1	Q
Other	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q
Predominant Roof Material						
Built-Up	81	5,565	69	37	264	302
Shingles (Not Wood)	167	1,814	11	63	453	529
Metal Surfacing	114	1,309	11	21	153	165
Synthetic or Rubber	65	4,687	72	46	335	367
Slate or Tile	12	454	37	12	83	94
Wooden Materials	Q	Q	Q	Q	Q	Q
Concrete	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)						
Any Type of Renovation Since 1980	149	5,651	38	105	757	806
Addition or Annex	41	2,507	61	Q	Q	Q
Reduction In Floorspace	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	107	4,201	39	77	555	593
Wall or Roof Replacement	66	3,081	46	54	386	422
Interior Wall Re-Configuration	66	3,087	47	44	321	352
HVAC Equipment Upgrade	65	3,505	54	34	244	277
Lighting Upgrade	72	3,529	49	53	386	417
Window Replacement	62	2,332	38	50	362	391
Plumbing System Upgrade	48	2,785	58	45	321	343
Insulation Upgrade	48	1,386	29	21	151	170
Other Renovation	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	172	3,216	19	94	677	778
Building Newer than 1980	129	6,289	49	23	168	192

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

	All Buildings* Using Fuel Oil			Fuel Oil Consumption		Fuel Oil Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million gallons)	Total (million dollars)
All Buildings*	451	15,157	34	222	1,602	1,776
Energy Sources (more than one may apply)						
Electricity	448	15,142	34	222	1,601	1,774
Natural Gas	129	10,383	80	99	712	775
Fuel Oil	451	15,157	34	222	1,602	1,776
District Heat	4	1,731	393	1	10	10
District Chilled Water	3	986	284	2	12	13
Propane	77	2,139	28	54	387	410
Other	29	359	12	Q	Q	26
Space-Heating Energy Sources						
Fuel Oil	360	5,988	17	212	1,527	1,676
Fuel Oil Main	282	3,818	14	197	1,423	1,555
Fuel Oil Secondary	80	2,191	27	16	112	130
Other Excluding Fuel Oil	83	8,954	108	7	51	68
Buildings without Heating	Q	Q	Q	Q	Q	Q
Primary Space-Heating Energy Source						
Electricity	51	3,079	60	3	23	29
Natural Gas	77	6,258	81	15	109	132
Fuel Oil	282	3,818	14	197	1,423	1,555
District Heat	4	1,490	388	1	7	8
Propane	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q
Cooling Energy Sources						
Fuel Oil	Q	Q	Q	Q	Q	Q
Other Excluding Fuel Oil	298	13,860	46	175	1,258	1,376
Buildings without Cooling	152	1,267	8	46	334	389
Water-Heating Energy Sources						
Fuel Oil	94	1,880	20	109	786	849
Other Excluding Fuel Oil	282	12,680	45	104	748	833
Buildings without Water Heating	74	597	8	10	69	94
Cooking Energy Sources						
Fuel Oil	Q	Q	Q	Q	Q	Q
Other Excluding Fuel Oil	114	8,858	78	114	821	888
Buildings without Cooking	335	6,170	18	103	742	847
Energy End Uses (more than one may apply)						
Buildings with Space Heating	443	14,942	34	219	1,577	1,744
Buildings with Cooling	298	13,890	47	176	1,268	1,387
Buildings with Water Heating	376	14,560	39	213	1,533	1,682
Buildings with Cooking	115	8,987	78	119	860	929
Buildings with Manufacturing	25	1,008	40	7	49	56
Buildings with Electricity Generation	92	9,867	107	31	227	253

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

	All Buildings* Using Fuel Oil			Fuel Oil Consumption		Fuel Oil Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million gallons)	Total (million dollars)
All Buildings*	451	15,157	34	222	1,602	1,776
Percent of Floorspace Heated						
Not Heated	Q	Q	Q	Q	Q	Q
1 to 50	62	1,253	20	13	94	109
51 to 99	56	2,480	44	26	187	206
100	325	11,209	35	180	1,297	1,428
Heating Equipment (more than one may apply)						
Heat Pumps	21	2,417	114	6	44	50
Packaged Heat Pumps	12	1,635	137	3	22	Q
Split-System Heat Pumps	Q	533	92	Q	Q	Q
Individual Room Heat Pumps	7	983	145	Q	Q	Q
Furnaces	211	3,330	16	50	360	417
Individual Space Heaters	94	3,236	34	31	225	253
District Heat	4	1,592	395	1	8	8
Boilers	178	8,930	50	171	1,236	1,337
Packaged Heating Units	54	3,862	72	17	122	139
Other	40	1,095	27	5	36	46
Water Heating Equipment						
Centralized System	290	8,411	29	161	1,162	1,286
Distributed System	61	2,183	36	31	224	244
Combination of Centralized and Distributed System	26	3,965	154	20	147	153
Energy-Related Space Functions (more than one may apply)						
Commercial Food Preparation	115	8,987	78	119	860	929
Activities with Large Amounts of Hot Water	82	7,690	94	95	685	724
Separate Computer Area	80	10,251	129	96	695	732
HVAC Conservation Features (more than one may apply)						
Variable Air-Volume System	61	7,827	128	35	254	273
Economizer Cycle	67	7,865	118	42	303	331
HVAC Maintenance	325	14,152	43	196	1,413	1,565
Energy Management and Control System (EMCS)	32	6,362	196	31	222	241
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]						
Heating	328	10,861	33	162	1,166	1,305
Cooling	219	10,489	48	135	975	1,074
Lighting	360	8,742	24	156	1,127	1,257
Office Equipment	147	3,311	22	92	663	714

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

	All Buildings* Using Fuel Oil			Fuel Oil Consumption		Fuel Oil Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million gallons)	Total (million dollars)
All Buildings*	451	15,157	34	222	1,602	1,776
Annual Consumption (gallons)						
1,000 or Less	251	8,625	34	13	94	124
1,001 to 5,000	140	2,592	18	44	320	395
5,001 to 10,000	30	913	30	28	204	242
10,001 to 25,000	15	911	61	30	219	232
Over 25,000	14	2,116	153	106	765	782

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, total fuel oil consumption in malls was not statistically significant.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use fuel oil.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Fuel Oil Consumption			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*	3,555	0.11	81.6	3.9	0.12	1.11
Building Floorspace (Square Feet)						
1,001 to 5,000	1,187	0.41	315.2	1.4	0.49	1.18
5,001 to 10,000	2,639	0.37	456.4	3.1	0.43	1.17
10,001 to 25,000	3,238	0.20	218.5	3.8	0.24	1.18
25,001 to 50,000	5,383	0.14	109.4	5.8	0.15	1.08
50,001 to 100,000	8,163	0.11	78.4	8.8	0.12	1.08
100,001 to 200,000	12,681	0.09	80.6	13.1	0.09	1.03
200,001 to 500,000	22,353	0.08	62.1	23.6	0.08	1.05
Over 500,000	16,057	0.02	10.7	16.4	0.02	1.02
Principal Building Activity						
Education	12,911	0.18	199.2	13.7	0.19	1.06
Food Sales	Q	Q	Q	Q	Q	Q
Food Service	Q	Q	Q	Q	Q	Q
Health Care	5,755	0.04	21.0	6.0	0.04	1.05
Inpatient	9,252	0.04	20.4	9.6	0.04	1.04
Outpatient	Q	Q	Q	Q	Q	Q
Lodging	9,024	0.12	215.5	9.6	0.12	1.07
Retail (Other Than Mall)	3,084	Q	Q	3.2	Q	1.04
Office	1,932	0.03	13.3	2.3	0.04	1.18
Public Assembly	4,990	0.22	437.8	5.5	0.24	1.10
Public Order and Safety	2,489	Q	Q	Q	Q	Q
Religious Worship	3,431	0.29	Q	Q	Q	Q
Service	Q	Q	Q	1.8	0.27	1.17
Warehouse and Storage	1,779	0.05	Q	2.0	0.06	1.12
Other	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q
Year Constructed						
Before 1920	3,647	0.28	441.9	4.1	0.32	1.11
1920 to 1945	7,541	0.20	195.8	8.1	0.21	1.07
1946 to 1959	4,599	0.17	168.5	5.2	0.19	1.13
1960 to 1969	4,354	0.16	104.9	4.8	0.17	1.10
1970 to 1979	2,730	0.07	46.8	3.1	0.08	1.13
1980 to 1989	1,040	0.02	13.0	1.2	0.03	1.18
1990 to 1999	1,321	0.03	24.3	1.5	0.03	1.11
2000 to 2003	2,247	Q	Q	2.6	Q	1.14
Census Region and Division						
Northeast	4,985	0.21	176.2	5.5	0.23	1.10
New England	4,123	0.32	310.1	4.6	0.35	1.11
Middle Atlantic	5,777	0.17	137.3	6.3	0.19	1.09
Midwest	2,237	0.06	47.0	2.3	0.06	1.03
East North Central	Q	Q	Q	1.9	0.03	0.92
West North Central	2,418	0.10	106.9	2.7	Q	1.12
South	1,235	0.03	19.4	1.5	0.03	1.21
South Atlantic	1,582	0.04	27.4	1.9	0.04	1.21
East South Central	449	0.02	15.4	Q	Q	Q
West South Central	398	0.00	2.8	0.5	0.00	1.25
West	1,722	Q	18.2	Q	Q	1.28
Mountain	Q	Q	Q	Q	Q	1.32
Pacific	Q	0.02	Q	Q	Q	1.25

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

	Fuel Oil Consumption			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*	3,555	0.11	81.6	3.9	0.12	1.11
Climate Zone: 30-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	3,115	0.18	178.7	3.3	0.19	1.04
5,500-7,000 HDD	3,074	0.11	88.5	3.6	0.13	1.16
4,000-5,499 HDD	6,710	0.14	104.9	7.4	0.15	1.10
Fewer than 4,000 HDD	861	0.02	11.5	1.1	0.02	1.28
2,000 CDD or More and --						
Fewer than 4,000 HDD	500	0.00	3.0	0.6	0.00	1.27
Number of Floors						
One	1,606	0.13	131.3	1.9	0.16	1.18
Two	3,496	0.18	186.7	3.9	0.20	1.11
Three	4,879	0.15	138.9	5.3	0.16	1.09
Four to Nine	11,666	0.10	79.5	12.5	0.10	1.07
Ten or More	10,736	0.02	12.5	11.3	0.02	1.05
Number of Workers (main shift)						
Fewer than 5	1,978	0.34	977.0	2.3	0.40	1.16
5 to 9	1,785	0.19	264.2	2.2	0.24	1.26
10 to 19	6,297	0.23	482.2	6.7	0.25	1.06
20 to 49	7,044	0.16	233.2	7.5	0.17	1.07
50 to 99	9,017	0.09	132.7	9.4	0.10	1.05
100 to 249	6,958	0.06	46.3	7.4	0.07	1.06
250 or More	9,949	0.03	12.4	10.8	0.03	1.08
Weekly Operating Hours						
Fewer than 40	1,323	0.19	285.7	1.6	0.23	1.20
40 to 48	3,879	0.21	179.3	4.3	0.23	1.10
49 to 60	2,275	0.08	51.5	2.6	0.09	1.14
61 to 84	5,213	0.14	103.8	5.6	0.15	1.07
85 to 167	3,729	0.09	86.8	4.3	0.10	1.15
Open Continuously	6,188	0.07	52.2	6.7	0.08	1.09
Ownership and Occupancy						
Nongovernment Owned	2,987	0.10	72.2	3.4	0.11	1.13
Owner Occupied	2,810	0.10	72.2	3.2	0.11	1.14
Nonowner Occupied	3,225	0.10	72.1	3.6	0.11	1.11
Unoccupied	Q	Q	N	Q	Q	Q
Government Owned	6,192	0.13	115.5	6.6	0.14	1.06
Federal	11,801	Q	Q	15.2	Q	1.29
State	6,949	0.17	219.4	7.1	0.18	1.02
Local	5,442	0.12	100.6	5.7	0.12	1.05
Vacancy Status						
Completely Vacant	Q	Q	N	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q
Partially Vacant	4,303	0.05	29.1	4.7	0.05	1.08
Not At All Vacant	3,455	0.13	112.2	3.8	0.14	1.11
Number of Establishments						
One	3,537	0.14	127.8	3.9	0.16	1.11
2 to 5	3,039	0.07	67.5	3.4	0.08	1.13
6 to 10	Q	Q	46.0	Q	Q	1.03
11 to 20	Q	0.02	Q	Q	0.02	0.93
More than 20	Q	Q	Q	Q	Q	1.06
Currently Unoccupied	Q	Q	N	Q	Q	Q

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

	Fuel Oil Consumption			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*	3,555	0.11	81.6	3.9	0.12	1.11
Predominant Exterior Wall Material						
Brick, Stone or Stucco	6,580	0.13	111.0	7.2	0.15	1.09
Concrete (Block or Poured)	2,121	0.07	61.5	2.5	0.08	1.17
Concrete Panels	Q	Q	Q	Q	Q	1.15
Siding or Shingles	2,309	0.39	430.0	2.5	0.43	1.09
Metal Panels	948	0.05	38.4	1.2	0.07	1.28
Window Glass	463	0.00	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q
Predominant Roof Material						
Built-Up	3,277	0.05	34.9	3.7	0.05	1.14
Shingles (Not Wood)	2,712	0.25	211.4	3.2	0.29	1.17
Metal Surfacing	1,342	0.12	Q	1.4	0.13	1.08
Synthetic or Rubber	5,154	0.07	47.4	5.6	0.08	1.10
Slate or Tile	6,873	0.18	141.2	7.7	0.21	1.13
Wooden Materials	Q	Q	Q	Q	Q	Q
Concrete	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)						
Any Type of Renovation Since 1980	5,073	0.13	96.9	5.4	0.14	1.07
Addition or Annex	8,530	0.14	Q	8.7	0.14	1.02
Reduction In Floorspace	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	5,198	0.13	93.7	5.5	0.14	1.07
Wall or Roof Replacement	5,810	0.13	88.0	6.3	0.14	1.09
Interior Wall Re-Configuration	4,856	0.10	72.3	5.3	0.11	1.10
HVAC Equipment Upgrade	3,777	0.07	41.2	4.3	0.08	1.13
Lighting Upgrade	5,329	0.11	79.4	5.8	0.12	1.08
Window Replacement	5,876	0.16	111.4	6.3	0.17	1.08
Plumbing System Upgrade	6,673	0.12	82.6	7.1	0.12	1.07
Insulation Upgrade	3,116	0.11	71.1	3.5	0.12	1.13
Other Renovation	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	3,930	0.21	241.0	4.5	0.24	1.15
Building Newer than 1980	1,303	0.03	18.7	1.5	0.03	1.14
Energy Sources (more than one may apply)						
Electricity	3,569	0.11	81.6	4.0	0.12	1.11
Natural Gas	5,516	0.07	50.8	6.0	0.07	1.09
Fuel Oil	3,555	0.11	81.6	3.9	0.12	1.11
District Heat	2,198	0.01	3.3	2.3	0.01	1.03
District Chilled Water	3,458	0.01	9.3	3.6	0.01	1.05
Propane	5,037	0.18	193.1	5.3	0.19	1.06
Other	Q	0.06	43.7	0.9	0.07	1.19
Space-Heating Energy Sources						
Fuel Oil	4,241	0.25	283.4	4.7	0.28	1.10
Fuel Oil Main	5,046	0.37	533.0	5.5	0.41	1.09
Fuel Oil Secondary	1,399	0.05	41.2	1.6	0.06	1.17
Other Excluding Fuel Oil	609	0.01	3.6	0.8	0.01	1.34
Buildings without Heating	Q	Q	Q	Q	Q	Q

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

	Fuel Oil Consumption			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*	3,555	0.11	81.6	3.9	0.12	1.11
Primary Space-Heating Energy Source						
Electricity	456	0.01	5.3	0.6	0.01	1.24
Natural Gas	1,411	0.02	11.5	1.7	0.02	1.21
Fuel Oil	5,046	0.37	533.0	5.5	0.41	1.09
District Heat	1,896	0.00	2.8	2.0	0.01	1.07
Propane	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q
Cooling Energy Sources						
Fuel Oil	Q	Q	Q	Q	Q	Q
Other Excluding Fuel Oil	4,218	0.09	66.5	4.6	0.10	1.09
Buildings without Cooling	2,194	0.26	481.2	2.6	0.31	1.16
Water-Heating Energy Sources						
Fuel Oil	8,332	0.42	385.8	9.0	0.45	1.08
Other Excluding Fuel Oil	2,651	0.06	43.5	3.0	0.07	1.11
Buildings without Water Heating	926	0.12	Q	1.3	0.16	1.36
Cooking Energy Sources						
Fuel Oil	Q	Q	Q	Q	Q	Q
Other Excluding Fuel Oil	7,232	0.09	69.9	7.8	0.10	1.08
Buildings without Cooking	2,215	0.12	96.5	2.5	0.14	1.14
Energy End Uses (more than one may apply)						
Buildings with Space Heating	3,560	0.11	81.3	3.9	0.12	1.11
Buildings with Cooling	4,250	0.09	67.0	4.6	0.10	1.09
Buildings with Water Heating	4,075	0.11	79.8	4.5	0.12	1.10
Buildings with Cooking	7,447	0.10	72.0	8.0	0.10	1.08
Buildings with Manufacturing	1,944	0.05	Q	2.2	0.06	1.14
Buildings with Electricity Generation	2,466	0.02	14.6	2.7	0.03	1.11
Percent of Floorspace Heated						
Not Heated	Q	Q	Q	Q	Q	Q
1 to 50	1,508	0.07	106.9	1.8	0.09	1.16
51 to 99	3,305	0.08	52.9	3.7	0.08	1.11
100	3,996	0.12	86.6	4.4	0.13	1.10
Heating Equipment (more than one may apply)						
Heat Pumps	2,093	0.02	11.1	2.4	0.02	1.13
Packaged Heat Pumps	Q	Q	7.0	Q	Q	1.19
Split-System Heat Pumps	Q	Q	Q	0.5	Q	1.28
Individual Room Heat Pumps	Q	Q	Q	Q	Q	1.08
Furnaces	1,708	0.11	122.5	2.0	0.13	1.16
Individual Space Heaters	2,397	0.07	55.9	2.7	0.08	1.12
District Heat	1,935	0.00	3.0	2.0	0.01	1.04
Boilers	6,937	0.14	108.4	7.5	0.15	1.08
Packaged Heating Units	2,277	0.03	21.1	2.6	0.04	1.14
Other	894	0.03	23.9	1.1	0.04	1.28

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

	Fuel Oil Consumption			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*	3,555	0.11	81.6	3.9	0.12	1.11
Water Heating Equipment						
Centralized System	4,010	0.14	111.2	4.4	0.15	1.11
Distributed System	3,686	0.10	103.8	4.0	0.11	1.09
Combination of Centralized and Distributed System	5,722	0.04	22.2	5.9	0.04	1.04
Energy-Related Space Functions (more than one may apply)						
Commercial Food Preparation	7,447	0.10	72.0	8.0	0.10	1.08
Activities with Large Amounts of Hot Water	8,391	0.09	71.2	8.9	0.09	1.06
Separate Computer Area	8,742	0.07	43.7	9.2	0.07	1.05
HVAC Conservation Features (more than one may apply)						
Variable Air-Volume System	4,153	0.03	20.1	4.5	0.03	1.08
Economizer Cycle	4,554	0.04	24.3	5.0	0.04	1.09
HVAC Maintenance	4,342	0.10	74.7	4.8	0.11	1.11
Energy Management and Control System (EMCS)	6,819	0.03	21.4	7.4	0.04	1.09
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]						
Heating	3,555	0.11	82.3	4.0	0.12	1.12
Cooling	4,443	0.09	69.2	4.9	0.10	1.10
Lighting	3,128	0.13	102.2	3.5	0.14	1.12
Office Equipment	4,498	0.20	196.0	4.8	0.22	1.08
Annual Consumption (gallons)						
1,000 or Less	375	0.01	7.5	0.5	0.01	1.32
1,001 to 5,000	2,276	0.12	101.3	2.8	0.15	1.24
5,001 to 10,000	6,744	0.22	200.6	8.0	0.27	1.19
10,001 to 25,000	14,793	0.24	187.1	15.7	0.25	1.06
Over 25,000	55,257	0.36	434.8	56.5	0.37	1.02

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS,total fuel oil consumption in malls was not statistically significant.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use fuel oil.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Total Fuel Oil Consumption (million gallons)				Total Floorspace of Buildings Using Fuel Oil (million square feet)				Fuel Oil Energy Intensity (gallons/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,265	170	104	63	6,080	2,832	4,122	2,123	0.21	0.06	0.03	Q
Building Floorspace (Square Feet)												
1,001 to 10,000	381	Q	Q	Q	757	Q	255	Q	0.50	Q	0.10	Q
10,001 to 100,000	375	63	Q	Q	1,704	643	833	351	0.22	0.10	Q	Q
Over 100,000	509	20	44	Q	3,618	1,983	3,034	1,673	0.14	0.01	0.01	Q
Principal Building Activity												
Education	282	Q	Q	Q	933	Q	Q	Q	0.30	Q	Q	Q
Health Care	Q	Q	17	7	Q	492	786	262	Q	Q	0.02	0.03
Office	105	6	14	1	1,379	714	1,235	748	0.08	0.01	0.01	0.00
All Others	837	Q	44	40	3,426	1,281	1,644	984	0.24	Q	0.03	Q
Year Constructed												
1945 or Before	555	Q	Q	Q	2,126	Q	Q	Q	0.26	Q	Q	Q
1946 to 1959	277	Q	Q	Q	1,233	343	Q	Q	0.22	Q	Q	Q
1960 to 1969	Q	Q	Q	Q	579	398	443	Q	0.34	Q	Q	Q
1970 to 1979	121	Q	25	Q	626	562	693	Q	0.19	Q	0.04	Q
1980 to 1989	45	Q	Q	5	620	Q	1,064	980	0.07	Q	Q	0.01
1990 to 2003	Q	18	Q	6	896	806	1,184	325	0.08	0.02	Q	Q
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	295	Q	N	Q	1,009	1,158	N	331	0.29	0.13	N	Q
5,500-7,000 HDD	398	20	N	Q	2,207	1,461	N	Q	0.18	0.01	N	Q
4,000-5,499 HDD	Q	Q	Q	Q	2,863	Q	1,392	Q	0.20	Q	Q	Q
Fewer than 4,000 HDD	N	N	29	Q	N	N	1,245	1,092	N	N	0.02	Q
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	6	Q	N	N	1,486	Q	N	N	0.00	Q
Number of Floors												
One	230	35	Q	Q	987	420	800	311	0.23	0.08	Q	Q
Two	390	Q	Q	Q	1,249	603	618	Q	0.31	Q	Q	Q
Three	234	Q	Q	Q	916	Q	Q	Q	0.26	Q	Q	Q
Four to Nine	328	Q	41	Q	1,704	1,007	887	503	0.19	Q	0.05	Q
Ten or More	Q	Q	6	1	1,224	Q	1,349	900	Q	Q	0.00	0.00
Number of Workers (main shift)												
Less than 10	436	Q	33	Q	1,221	374	376	Q	0.36	Q	0.09	Q
10 to 99	606	27	Q	Q	2,501	939	988	Q	0.24	0.03	Q	Q
100 or More	222	16	39	Q	2,358	1,520	2,758	1,681	0.09	0.01	0.01	Q
Weekly Operating Hours												
48 or fewer	441	Q	Q	Q	1,426	475	559	Q	0.31	Q	0.05	Q
49 to 84	374	Q	Q	10	1,859	915	1,526	805	0.20	Q	Q	0.01
85 to 168	450	33	45	31	2,795	1,442	2,037	1,209	0.16	0.02	0.02	Q
Ownership and Occupancy												
Nongovernment Owned	865	Q	71	34	4,568	1,938	3,132	1,736	0.19	Q	0.02	0.02
Owner Occupied	517	24	39	7	2,790	1,010	1,641	650	0.19	0.02	0.02	0.01
Nonowner Occupied	348	Q	32	Q	1,711	927	1,491	1,085	0.20	Q	0.02	Q
Unoccupied	Q	N	N	N	Q	N	N	N	Q	N	N	N
Government Owned	400	33	Q	Q	1,512	894	990	387	0.26	0.04	Q	Q
Federal	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
State	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Local	245	Q	Q	Q	1,102	574	Q	Q	0.22	Q	Q	Q

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

	Total Fuel Oil Consumption (million gallons)				Total Floorspace of Buildings Using Fuel Oil (million square feet)				Fuel Oil Energy Intensity (gallons/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,265	170	104	63	6,080	2,832	4,122	2,123	0.21	0.06	0.03	Q
Vacancy Status												
Completely Vacant	Q	N	N	N	Q	N	N	N	Q	N	N	N
Mostly Vacant	Q	N	N	N	Q	N	N	N	Q	N	N	N
Partially Vacant	179	Q	16	Q	1,704	756	1,203	684	0.11	Q	0.01	Q
Not At All Vacant	1,076	156	88	60	4,283	2,077	2,919	1,439	0.25	0.08	0.03	Q
Number of Establishments												
One	1,041	Q	76	Q	3,679	1,652	2,654	1,227	0.28	0.09	0.03	Q
2 to 5	151	Q	21	Q	1,119	651	615	Q	0.13	Q	0.03	Q
6 to 10	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	Q	Q	Q	487	Q	Q	Q	Q	Q
Currently Unoccupied	Q	N	N	N	Q	N	N	N	Q	N	N	N
Predominant Exterior Wall Material												
Brick, Stone or Stucco	855	93	74	Q	3,688	1,425	2,035	587	0.23	0.07	0.04	Q
Concrete (Block or Poured)	Q	17	Q	Q	Q	471	814	449	Q	0.04	Q	Q
Concrete Panels	Q	Q	4	Q	Q	Q	843	Q	Q	Q	0.00	Q
Siding or Shingles	230	Q	Q	Q	496	Q	Q	Q	0.46	Q	Q	0.18
Metal Panels	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	N	Q	Q	Q	N	Q	Q	Q	N	Q	Q	Q
Predominant Roof Material												
Built-Up	196	17	36	Q	1,936	914	1,727	988	0.10	0.02	0.02	Q
Shingles (Not Wood)	375	Q	Q	Q	892	Q	Q	Q	0.42	Q	Q	Q
Metal Surfacing	74	Q	Q	Q	512	Q	Q	Q	0.14	Q	Q	Q
Synthetic or Rubber	240	38	Q	Q	1,745	1,068	1,172	701	0.14	0.04	Q	Q
Slate or Tile	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Wooden Materials	Q	Q	Q	N	Q	Q	Q	N	Q	0.00	Q	N
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	0.00	0.00
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)												
Any Type of Renovation Since 1980	598	Q	52	29	2,711	1,013	1,361	567	0.22	Q	0.04	0.05
Addition or Annex	Q	Q	25	Q	Q	540	760	Q	0.30	0.04	0.03	Q
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	432	Q	39	Q	2,089	832	850	430	0.21	Q	0.05	Q
Wall or Roof Replacement	333	11	22	Q	1,581	541	665	Q	0.21	0.02	0.03	Q
Interior Wall Re-Configuration	277	Q	Q	Q	1,305	651	740	392	0.21	Q	0.03	Q
HVAC Equipment Upgrade	197	Q	33	Q	1,482	709	909	405	0.13	Q	0.04	Q
Lighting Upgrade	347	Q	22	Q	1,750	694	653	432	0.20	Q	0.03	Q
Window Replacement	337	6	Q	Q	1,520	360	Q	Q	0.22	0.02	Q	Q
Plumbing System Upgrade	293	Q	20	Q	1,517	449	497	Q	0.19	Q	0.04	Q
Insulation Upgrade	137	Q	Q	Q	758	Q	Q	Q	0.18	Q	Q	Q
Other Renovation	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	0.05	Q
No Renovations Since 1980	553	Q	Q	Q	1,853	598	514	Q	0.30	Q	Q	Q
Building Newer than 1980	114	20	23	12	1,516	1,221	2,248	1,305	0.08	0.02	0.01	0.01

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

	Total Fuel Oil Consumption (million gallons)				Total Floorspace of Buildings Using Fuel Oil (million square feet)				Fuel Oil Energy Intensity (gallons/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,265	170	104	63	6,080	2,832	4,122	2,123	0.21	0.06	0.03	Q
Energy Sources (more than one may apply)												
Electricity	1,265	169	104	63	6,080	2,817	4,122	2,123	0.21	0.06	0.03	0.03
Natural Gas	629	26	47	Q	3,714	2,123	2,962	1,584	0.17	0.01	0.02	Q
Fuel Oil	1,265	170	104	63	6,080	2,832	4,122	2,123	0.21	0.06	0.03	Q
District Heat	Q	Q	2	Q	731	314	476	Q	Q	Q	Q	Q
District Chilled Water	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Propane	304	Q	Q	Q	1,014	Q	Q	Q	0.30	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Space-Heating Energy Sources												
Fuel Oil	1,237	162	79	Q	3,927	916	897	Q	0.31	Q	0.09	Q
Fuel Oil Main	1,195	Q	Q	Q	3,250	Q	Q	Q	0.37	Q	Q	Q
Fuel Oil Secondary	50	31	25	Q	699	687	665	Q	0.07	0.04	0.04	Q
Other Excluding Fuel Oil	Q	8	21	6	2,103	1,916	3,137	1,798	Q	0.00	0.01	0.00
Buildings without Heating	Q	N	Q	Q	Q	N	Q	Q	Q	N	Q	Q
Primary Space-Heating Energy Source												
Electricity	Q	Q	8	Q	Q	563	1,688	531	Q	Q	0.00	0.01
Natural Gas	49	22	31	Q	1,730	1,671	1,630	1,226	0.03	0.01	0.02	0.01
Fuel Oil	1,195	Q	Q	Q	3,250	Q	Q	Q	0.37	Q	Q	Q
District Heat	Q	Q	1	Q	Q	Q	433	Q	Q	Q	Q	Q
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling Energy Sources												
Fuel Oil	Q	N	N	N	Q	N	N	N	Q	N	N	N
Other Excluding Fuel Oil	996	127	101	35	5,070	2,670	4,093	2,027	0.20	0.05	0.02	0.02
Buildings without Cooling	259	Q	Q	Q	979	Q	Q	Q	0.26	Q	Q	Q
Water-Heating Energy Sources												
Fuel Oil	721	Q	Q	Q	1,542	Q	Q	Q	0.47	Q	Q	Q
Other Excluding Fuel Oil	508	Q	70	31	4,216	2,607	3,826	2,030	0.12	Q	0.02	0.02
Buildings without Water Heating	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooking Energy Sources												
Fuel Oil	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	0.00
Other Excluding Fuel Oil	682	64	52	Q	3,244	1,699	2,777	1,138	0.21	0.04	0.02	Q
Buildings without Cooking	558	Q	43	Q	2,776	1,111	1,315	968	0.20	Q	0.03	Q
Energy End Uses (more than one may apply)												
Buildings with Space Heating	1,253	170	100	Q	6,030	2,832	4,034	2,045	0.21	0.06	0.02	Q
Buildings with Cooling	1,005	127	101	35	5,101	2,670	4,093	2,027	0.20	0.05	0.02	0.02
Buildings with Water Heating	1,228	Q	98	49	5,758	2,699	4,030	2,072	0.21	0.06	0.02	0.02
Buildings with Cooking	707	69	60	Q	3,304	1,721	2,807	1,155	0.21	0.04	0.02	Q
Buildings with Manufacturing	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Buildings with Electricity Generation	160	Q	38	8	2,590	2,129	3,368	1,780	0.06	Q	0.01	0.00

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

	Total Fuel Oil Consumption (million gallons)				Total Floorspace of Buildings Using Fuel Oil (million square feet)				Fuel Oil Energy Intensity (gallons/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,265	170	104	63	6,080	2,832	4,122	2,123	0.21	0.06	0.03	Q
Percent of Floorspace Heated												
Not Heated	Q	N	Q	Q	Q	N	Q	Q	Q	N	Q	Q
1 to 50	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
51 to 99	150	Q	23	Q	644	Q	830	748	0.23	Q	0.03	Q
100	1,019	Q	75	Q	4,671	2,422	2,987	1,129	0.22	0.06	0.02	Q
Heating Equipment (more than one may apply)												
Heat Pumps	Q	Q	9	Q	Q	Q	1,100	510	Q	Q	0.01	Q
Packaged Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Split-System Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Furnaces	300	24	Q	Q	1,352	747	973	Q	0.22	0.03	Q	Q
Individual Space Heaters	174	Q	23	Q	1,245	876	846	Q	0.14	Q	0.03	Q
District Heat	Q	Q	2	Q	624	Q	451	Q	Q	Q	Q	Q
Boilers	981	Q	74	Q	3,833	1,775	1,904	1,418	0.26	Q	0.04	Q
Packaged Heating Units	87	10	Q	Q	945	740	1,563	614	0.09	0.01	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Water Heating Equipment												
Centralized System	916	Q	Q	Q	3,627	1,724	2,222	838	0.25	Q	Q	Q
Distributed System	208	Q	Q	Q	1,182	Q	588	Q	0.18	Q	0.02	Q
Combination of Centralized and Distributed System	105	Q	17	8	949	755	1,220	1,041	0.11	Q	0.01	0.01
Energy-Related Space Functions (more than one may apply)												
Commercial Food Preparation	707	69	60	Q	3,304	1,721	2,807	1,155	0.21	0.04	0.02	Q
Activities with Large Amounts of Hot Water	574	40	47	Q	2,577	1,652	2,380	1,081	0.22	0.02	0.02	Q
Separate Computer Area	560	41	59	35	3,623	1,957	2,916	1,756	0.15	0.02	0.02	Q
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System	174	27	45	7	2,243	1,823	2,394	1,367	0.08	0.02	0.02	0.01
Economizer Cycle	232	19	48	4	2,238	1,794	2,378	1,454	0.10	0.01	0.02	0.00
HVAC Maintenance	1,156	110	98	49	5,602	2,638	3,898	2,015	0.21	0.04	0.03	Q
Energy Management and Control System (EMCS)	156	13	39	Q	1,798	1,395	1,996	1,173	0.09	0.01	0.02	Q
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]												
Heating	952	91	82	Q	4,569	1,898	2,827	1,568	0.21	0.05	0.03	Q
Cooling	828	44	84	Q	4,138	1,758	2,968	1,625	0.20	0.03	0.03	Q
Lighting	871	Q	Q	Q	3,560	1,683	2,393	1,106	0.24	Q	Q	Q
Office Equipment	564	Q	Q	Q	1,828	617	578	Q	0.31	Q	Q	Q

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

	Total Fuel Oil Consumption (million gallons)				Total Floorspace of Buildings Using Fuel Oil (million square feet)				Fuel Oil Energy Intensity (gallons/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,265	170	104	63	6,080	2,832	4,122	2,123	0.21	0.06	0.03	Q
Annual Consumption (gallons)												
1,000 or Less	56	15	16	7	2,097	1,955	3,017	1,556	0.03	0.01	0.01	0.00
1,001 to 5,000	252	Q	Q	Q	1,310	450	433	Q	0.19	0.07	Q	Q
5,001 to 10,000	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
10,001 to 25,000	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Over 25,000	691	Q	Q	Q	1,763	Q	Q	Q	0.39	Q	Q	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, total fuel oil consumption in malls was not statistically significant.

a The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use fuel oil.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	Total Fuel Oil Expenditures (million dollars)				Fuel Oil Expenditures (dollars) per Gallon				Fuel Oil Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,393	176	125	81	1.10	1.03	1.21	1.28	0.23	0.06	0.03	Q
Building Floorspace (Square Feet)												
1,001 to 10,000	460	Q	Q	Q	1.21	Q	Q	Q	0.61	Q	Q	Q
10,001 to 100,000	408	70	Q	Q	1.09	1.12	1.29	1.31	0.24	0.11	Q	Q
Over 100,000	524	21	47	Q	1.03	1.05	1.07	1.26	0.14	0.01	0.02	Q
Principal Building Activity												
Education	293	Q	Q	Q	1.04	Q	Q	Q	0.31	Q	Q	Q
Health Care	Q	Q	19	8	Q	1.06	1.08	1.16	Q	Q	0.02	0.03
Office	122	8	18	Q	1.16	1.32	1.26	1.44	0.09	0.01	0.01	0.00
All Others	936	Q	59	50	1.12	1.01	1.34	1.26	0.27	0.11	0.04	Q
Year Constructed												
1945 or Before	612	Q	Q	Q	1.10	Q	Q	Q	0.29	Q	Q	Q
1946 to 1959	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1960 to 1969	Q	Q	Q	Q	1.06	Q	Q	Q	0.36	Q	Q	Q
1970 to 1979	133	Q	31	Q	1.10	1.19	1.23	Q	0.21	Q	0.04	Q
1980 to 1989	53	Q	Q	7	1.18	Q	1.16	1.23	0.08	Q	Q	0.01
1990 to 2003	Q	21	Q	Q	1.09	1.16	1.18	Q	0.08	0.03	Q	Q
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	312	Q	N	Q	1.06	1.00	N	1.23	0.31	0.13	N	Q
5,500-7,000 HDD	459	24	N	Q	1.15	1.23	N	Q	0.21	0.02	N	Q
4,000-5,499 HDD	Q	Q	Q	Q	1.09	Q	1.19	Q	0.22	Q	Q	Q
Fewer than 4,000 HDD	N	N	36	Q	N	N	1.24	1.38	N	N	0.03	Q
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	7	Q	N	N	1.27	Q	N	N	0.00	Q
Number of Floors												
One	267	40	Q	Q	1.16	1.11	1.28	Q	0.27	0.09	Q	Q
Two	442	Q	Q	Q	1.13	0.96	Q	Q	0.35	Q	Q	Q
Three	252	Q	Q	Q	1.08	Q	Q	Q	0.28	Q	Q	Q
Four to Nine	347	Q	47	Q	1.06	0.97	1.14	1.23	0.20	Q	0.05	Q
Ten or More	Q	Q	7	2	1.03	Q	1.16	1.33	Q	Q	0.01	0.00
Number of Workers (main shift)												
Less than 10	525	Q	46	Q	1.20	1.02	1.38	Q	0.43	Q	0.12	Q
10 to 99	635	Q	Q	Q	1.05	1.03	1.17	Q	0.25	Q	Q	Q
100 or More	233	18	43	Q	1.05	1.13	1.10	1.30	0.10	0.01	0.02	Q
Weekly Operating Hours												
48 or fewer	481	Q	34	Q	1.09	Q	1.30	Q	0.34	Q	0.06	Q
49 to 84	422	Q	Q	11	1.13	0.96	1.26	1.13	0.23	Q	Q	0.01
85 to 168	490	36	51	40	1.09	1.09	1.12	1.29	0.18	0.02	0.03	Q
Ownership and Occupancy												
Nongovernment Owned	976	140	90	Q	1.13	1.02	1.27	1.27	0.21	Q	0.03	Q
Owner Occupied	583	27	52	9	1.13	1.13	1.32	1.16	0.21	0.03	0.03	0.01
Nonowner Occupied	392	Q	38	Q	1.13	1.00	1.20	1.30	0.23	Q	0.03	Q
Unoccupied	Q	N	N	N	Q	N	N	N	Q	N	N	N
Government Owned	417	36	Q	Q	1.04	1.09	1.08	1.31	0.28	Q	Q	Q
Federal	Q	Q	Q	Q	Q	Q	1.09	Q	Q	Q	0.00	Q
State	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Local	256	Q	Q	Q	1.04	Q	Q	Q	0.23	Q	Q	Q

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

	Total Fuel Oil Expenditures (million dollars)				Fuel Oil Expenditures (dollars) per Gallon				Fuel Oil Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,393	176	125	81	1.10	1.03	1.21	1.28	0.23	0.06	0.03	Q
Vacancy Status												
Completely Vacant	Q	N	N	N	Q	N	N	N	Q	N	N	N
Mostly Vacant	Q	N	N	N	Q	N	N	N	Q	N	N	N
Partially Vacant	191	Q	19	Q	1.06	1.18	1.19	1.30	0.11	Q	0.02	Q
Not At All Vacant	1,194	159	106	Q	1.11	1.02	1.21	1.28	0.28	0.08	0.04	Q
Number of Establishments												
One	1,152	160	96	Q	1.11	1.03	1.25	1.30	0.31	0.10	0.04	Q
2 to 5	169	Q	23	Q	1.12	1.07	1.08	Q	0.15	Q	0.04	Q
6 to 10	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	Q	Q	Q	1.28	Q	Q	Q	Q	Q
Currently Unoccupied	Q	N	N	N	Q	N	N	N	Q	N	N	N
Predominant Exterior Wall Material												
Brick, Stone or Stucco	921	103	86	Q	1.08	1.12	1.17	1.25	0.25	0.07	0.04	Q
Concrete (Block or Poured)	Q	20	Q	Q	Q	1.13	1.30	1.33	Q	Q	Q	Q
Concrete Panels	Q	Q	4	Q	Q	Q	1.25	Q	Q	Q	Q	Q
Siding or Shingles	264	Q	Q	Q	1.14	Q	Q	Q	0.53	Q	Q	0.21
Metal Panels	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	N	Q	Q	Q	N	Q	Q	Q	N	Q	Q	Q
Predominant Roof Material												
Built-Up	222	19	42	Q	1.13	1.10	1.16	1.32	0.11	0.02	0.02	Q
Shingles (Not Wood)	437	Q	Q	Q	1.16	Q	Q	Q	0.49	Q	Q	Q
Metal Surfacing	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Synthetic or Rubber	253	43	Q	Q	1.05	1.12	1.16	1.32	0.14	0.04	Q	Q
Slate or Tile	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Wooden Materials	Q	Q	Q	N	Q	Q	Q	N	Q	0.00	Q	N
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	0.00	0.00
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)												
Any Type of Renovation Since 1980	638	Q	62	Q	1.07	0.90	1.18	1.26	0.24	Q	0.05	Q
Addition or Annex	Q	Q	30	Q	1.01	1.06	1.20	Q	0.30	0.04	0.04	Q
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	468	Q	45	Q	1.08	0.87	1.14	1.22	0.22	Q	0.05	Q
Wall or Roof Replacement	358	13	25	Q	1.07	1.11	1.16	Q	0.23	0.02	0.04	Q
Interior Wall Re-Configuration	302	Q	Q	Q	1.09	1.12	1.16	1.03	0.23	Q	0.04	Q
HVAC Equipment Upgrade	223	13	37	Q	1.14	1.10	1.13	1.04	0.15	Q	0.04	0.01
Lighting Upgrade	372	Q	26	Q	1.07	1.11	1.17	1.06	0.21	Q	Q	0.01
Window Replacement	362	8	Q	Q	1.08	1.23	Q	Q	0.24	0.02	Q	Q
Plumbing System Upgrade	311	Q	23	Q	1.06	1.03	1.13	Q	0.21	Q	0.05	Q
Insulation Upgrade	154	Q	Q	Q	1.12	Q	Q	Q	0.20	Q	Q	Q
Other Renovation	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	0.07	Q
No Renovations Since 1980	627	Q	Q	Q	1.13	1.15	1.29	Q	0.34	Q	Q	Q
Building Newer than 1980	128	23	27	14	1.13	1.15	1.17	1.21	0.08	0.02	0.01	0.01

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

	Total Fuel Oil Expenditures (million dollars)				Fuel Oil Expenditures (dollars) per Gallon				Fuel Oil Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,393	176	125	81	1.10	1.03	1.21	1.28	0.23	0.06	0.03	Q
Energy Sources (more than one may apply)												
Electricity	1,393	174	125	81	1.10	1.03	1.21	1.28	0.23	0.06	0.03	0.04
Natural Gas	681	29	53	Q	1.08	1.11	1.13	1.18	0.18	0.01	0.02	Q
Fuel Oil	1,393	176	125	81	1.10	1.03	1.21	1.28	0.23	0.06	0.03	Q
District Heat	Q	Q	2	Q	Q	Q	1.23	Q	Q	Q	0.01	Q
District Chilled Water	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Propane	313	Q	Q	Q	1.03	Q	Q	Q	0.31	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Space-Heating Energy Sources												
Fuel Oil	1,353	167	95	Q	1.09	1.03	1.20	Q	0.34	0.18	0.11	Q
Fuel Oil Main	1,304	Q	Q	Q	1.09	Q	Q	Q	0.40	Q	Q	Q
Fuel Oil Secondary	59	35	29	Q	1.19	1.15	1.16	Q	0.08	0.05	0.04	Q
Other Excluding Fuel Oil	Q	9	26	8	1.56	1.16	1.25	1.30	Q	0.00	0.01	0.00
Buildings without Heating	Q	N	Q	Q	Q	N	Q	Q	Q	N	Q	Q
Primary Space-Heating Energy Source												
Electricity	Q	Q	11	Q	Q	1.19	1.32	Q	Q	Q	0.01	Q
Natural Gas	63	24	36	Q	1.29	1.13	1.14	1.20	0.04	0.01	0.02	0.01
Fuel Oil	1,304	Q	Q	Q	1.09	Q	Q	Q	0.40	Q	Q	Q
District Heat	Q	Q	2	Q	Q	Q	1.25	Q	Q	Q	0.00	Q
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling Energy Sources												
Fuel Oil	Q	N	N	N	Q	N	N	N	Q	N	N	N
Other Excluding Fuel Oil	1,086	125	122	43	1.09	0.99	1.21	1.23	0.21	0.05	0.03	0.02
Buildings without Cooling	296	Q	Q	Q	1.14	Q	Q	Q	0.30	Q	Q	Q
Water-Heating Energy Sources												
Fuel Oil	773	Q	Q	Q	1.07	Q	Q	Q	0.50	Q	Q	Q
Other Excluding Fuel Oil	572	Q	85	36	1.13	1.01	1.20	1.18	0.14	0.05	0.02	0.02
Buildings without Water Heating	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooking Energy Sources												
Fuel Oil	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	0.00
Other Excluding Fuel Oil	729	70	59	Q	1.07	1.10	1.14	1.26	0.22	0.04	0.02	Q
Buildings without Cooking	639	Q	57	Q	1.14	0.99	1.31	1.30	0.23	Q	0.04	Q
Energy End Uses (more than one may apply)												
Buildings with Space Heating	1,378	176	121	Q	1.10	1.03	1.21	1.27	0.23	0.06	0.03	Q
Buildings with Cooling	1,097	125	122	43	1.09	0.99	1.21	1.23	0.21	0.05	0.03	0.02
Buildings with Water Heating	1,344	162	115	61	1.09	1.02	1.18	1.25	0.23	0.06	0.03	0.03
Buildings with Cooking	754	76	68	Q	1.07	1.10	1.14	1.26	0.23	0.04	0.02	Q
Buildings with Manufacturing	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Buildings with Electricity Generation	174	Q	45	10	1.09	1.12	1.19	1.20	0.07	0.01	0.01	0.01
Percent of Floorspace Heated												
Not Heated	Q	N	Q	Q	Q	N	Q	Q	Q	N	Q	Q
1 to 50	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
51 to 99	167	Q	25	Q	1.11	Q	1.09	1.06	0.26	Q	0.03	Q
100	1,116	160	93	Q	1.09	1.02	1.24	1.30	0.24	0.07	0.03	Q

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

	Total Fuel Oil Expenditures (million dollars)				Fuel Oil Expenditures (dollars) per Gallon				Fuel Oil Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,393	176	125	81	1.10	1.03	1.21	1.28	0.23	0.06	0.03	Q
Heating Equipment (more than one may apply)												
Heat Pumps	Q	Q	11	Q	Q	Q	1.26	1.04	Q	Q	Q	Q
Packaged Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Split-System Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Furnaces	345	28	Q	Q	1.15	1.16	1.25	Q	0.26	0.04	Q	Q
Individual Space Heaters	192	Q	29	Q	1.10	1.15	1.25	Q	0.15	0.02	0.03	Q
District Heat	Q	Q	2	Q	Q	Q	1.24	Q	Q	Q	0.00	Q
Boilers	1,060	Q	86	Q	1.08	1.01	1.15	1.28	0.28	Q	0.04	Q
Packaged Heating Units	Q	10	25	Q	Q	1.00	1.23	1.20	Q	0.01	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Water Heating Equipment												
Centralized System	1,014	Q	Q	Q	1.11	1.01	1.18	1.31	0.28	0.08	Q	Q
Distributed System	Q	Q	Q	Q	Q	Q	1.26	Q	Q	Q	0.02	Q
Combination of Centralized and Distributed System	106	Q	19	9	1.01	1.08	1.14	1.08	0.11	Q	0.02	0.01
Energy-Related Space Functions (more than one may apply)												
Commercial Food Preparation	754	76	68	Q	1.07	1.10	1.14	1.26	0.23	0.04	0.02	Q
Activities with Large Amounts of Hot Water	595	42	Q	Q	1.04	1.07	1.15	1.30	0.23	0.03	0.02	Q
Separate Computer Area	576	45	66	Q	1.03	1.08	1.11	1.30	0.16	0.02	0.02	Q
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System	184	30	50	9	1.05	1.11	1.12	1.25	0.08	0.02	0.02	0.01
Economizer Cycle	253	21	51	5	1.09	1.08	1.08	1.26	0.11	0.01	0.02	0.00
HVAC Maintenance	1,261	123	117	Q	1.09	1.12	1.20	1.30	0.23	0.05	0.03	Q
Energy Management and Control System (EMCS)	166	14	42	Q	1.06	1.12	1.08	1.31	0.09	0.01	0.02	Q
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]												
Heating	1,051	103	100	Q	1.10	1.13	1.22	1.27	0.23	0.05	0.04	Q
Cooling	897	51	102	Q	1.08	1.15	1.22	1.29	0.22	0.03	0.03	Q
Lighting	969	142	88	Q	1.11	1.02	1.24	1.28	0.27	0.08	0.04	Q
Office Equipment	613	Q	Q	Q	1.09	0.90	1.23	Q	0.34	Q	Q	Q

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

	Total Fuel Oil Expenditures (million dollars)				Fuel Oil Expenditures (dollars) per Gallon				Fuel Oil Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,393	176	125	81	1.10	1.03	1.21	1.28	0.23	0.06	0.03	Q
Annual Consumption (gallons)												
1,000 or Less	73	19	23	10	1.29	1.28	1.46	1.31	0.03	0.01	0.01	0.01
1,001 to 5,000	313	Q	Q	Q	1.24	1.18	1.23	Q	0.24	Q	Q	Q
5,001 to 10,000	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
10,001 to 25,000	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Over 25,000	699	Q	Q	Q	1.01	Q	Q	Q	0.40	Q	Q	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, total fuel oil consumption in malls was not statistically significant.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use fuel oil.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

	All Buildings* Using District Heat			District Heat Consumption	District Heat Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million dollars)
All Buildings*	67	5,443	81	634	7,245
Building Floorspace (Square Feet)					
1,001 to 5,000	Q	Q	Q	Q	Q
5,001 to 10,000	Q	Q	Q	Q	Q
10,001 to 25,000	18	289	16	Q	Q
25,001 to 50,000	10	369	35	Q	Q
50,001 to 100,000	8	574	70	Q	Q
100,001 to 200,000	9	1,399	148	165	Q
200,001 to 500,000	4	1,018	286	123	Q
Over 500,000	2	1,693	852	169	1,810
Principal Building Activity					
Education	26	1,145	45	134	Q
Food Sales	N	N	N	N	N
Food Service	Q	Q	Q	Q	Q
Health Care	2	493	Q	Q	Q
Inpatient	1	436	563	Q	Q
Outpatient	Q	Q	Q	Q	Q
Lodging	6	345	Q	Q	Q
Retail (Other Than Mall)	Q	Q	Q	Q	Q
Office	16	1,569	97	128	1,441
Public Assembly	6	547	89	Q	Q
Public Order and Safety	Q	Q	Q	Q	Q
Religious Worship	Q	Q	Q	Q	Q
Service	Q	Q	Q	Q	Q
Warehouse and Storage	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q
Year Constructed					
Before 1920	6	294	46	Q	Q
1920 to 1945	12	1,207	99	129	1,423
1946 to 1959	15	705	49	Q	Q
1960 to 1969	13	853	64	117	Q
1970 to 1979	6	588	101	77	Q
1980 to 1989	5	888	192	Q	Q
1990 to 1999	8	705	87	Q	Q
2000 to 2003	Q	Q	Q	Q	Q
Census Region and Division					
Northeast	17	1,363	78	165	2,136
New England	Q	Q	Q	Q	Q
Middle Atlantic	12	1,082	90	Q	Q
Midwest	13	1,648	126	225	2,329
East North Central	8	1,420	189	192	Q
West North Central	Q	Q	Q	Q	Q
South	21	1,766	83	182	Q
South Atlantic	15	1,243	86	117	Q
East South Central	Q	Q	Q	Q	Q
West South Central	Q	Q	Q	Q	Q
West	15	667	44	Q	Q
Mountain	7	253	35	Q	Q
Pacific	8	413	53	Q	Q

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

	All Buildings* Using District Heat			District Heat Consumption	District Heat Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million dollars)
All Buildings*	67	5,443	81	634	7,245
Climate Zone: 30-Year Average					
Under 2,000 CDD and --					
More than 7,000 HDD	6	825	131	88	Q
5,500-7,000 HDD	27	1,784	66	255	Q
4,000-5,499 HDD	13	1,349	100	140	Q
Fewer than 4,000 HDD	13	1,025	78	101	Q
2,000 CDD or More and --					
Fewer than 4,000 HDD	7	460	65	Q	Q
Number of Floors					
One	14	Q	44	Q	Q
Two	19	515	27	Q	Q
Three	11	458	41	Q	Q
Four to Nine	20	2,473	125	308	3,462
Ten or More	3	1,366	496	123	1,454
Number of Workers (main shift)					
Fewer than 5	20	853	42	Q	Q
5 to 9	Q	Q	Q	Q	Q
10 to 19	Q	Q	Q	Q	Q
20 to 49	16	667	41	96	Q
50 to 99	7	474	67	Q	Q
100 to 249	9	1,050	117	124	Q
250 or More	5	2,191	406	232	2,502
Weekly Operating Hours					
Fewer than 40	Q	Q	Q	Q	Q
40 to 48	12	493	41	Q	Q
49 to 60	18	1,590	87	176	2,041
61 to 84	11	785	69	73	Q
85 to 167	9	790	91	91	Q
Open Continuously	11	1,605	144	210	2,486
Ownership and Occupancy					
Nongovernment Owned	25	2,148	87	247	2,746
Owner Occupied	16	1,421	87	185	2,078
Nonowner Occupied	8	698	86	Q	Q
Unoccupied	Q	Q	Q	Q	Q
Government Owned	42	3,295	78	387	4,499
Federal	4	Q	219	Q	Q
State	27	1,694	63	188	Q
Local	11	653	59	Q	Q
Vacancy Status					
Completely Vacant	Q	Q	Q	Q	Q
Mostly Vacant	N	N	N	N	N
Partially Vacant	12	1,483	119	164	1,708
Not At All Vacant	54	3,834	71	461	5,427
Number of Establishments					
One	45	3,063	68	384	4,361
2 to 5	15	1,301	85	156	Q
6 to 10	Q	Q	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q
More than 20	1	436	699	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q

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

	All Buildings* Using District Heat			District Heat Consumption	District Heat Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million dollars)
All Buildings*	67	5,443	81	634	7,245
Predominant Exterior Wall Material					
Brick, Stone or Stucco	53	3,380	64	408	4,728
Concrete (Block or Poured)	6	702	110	Q	Q
Concrete Panels	4	787	176	Q	Q
Siding or Shingles	Q	Q	Q	Q	Q
Metal Panels	Q	Q	Q	Q	Q
Window Glass	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q
Predominant Roof Material					
Built-Up	23	2,607	112	263	3,144
Shingles (Not Wood)	14	215	16	Q	Q
Metal Surfacing	Q	Q	Q	Q	Q
Synthetic or Rubber	17	1,339	77	171	Q
Slate or Tile	4	270	72	Q	Q
Wooden Materials	Q	Q	Q	Q	Q
Concrete	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)					
Any Type of Renovation Since 1980	19	1,774	92	197	2,170
Addition or Annex	3	481	186	Q	Q
Reduction In Floorspace	Q	Q	Q	Q	Q
Cosmetic Improvements	12	1,298	109	143	1,595
Wall or Roof Replacement	9	897	99	99	Q
Interior Wall Re-Configuration	7	1,088	158	124	1,315
HVAC Equipment Upgrade	10	1,381	137	128	1,520
Lighting Upgrade	16	1,413	88	157	1,706
Window Replacement	6	725	Q	Q	Q
Plumbing System Upgrade	8	963	Q	103	1,211
Insulation Upgrade	3	401	144	Q	Q
Other Renovation	Q	Q	Q	Q	Q
No Renovations Since 1980	33	1,873	57	229	Q
Building Newer than 1980	15	1,796	122	208	Q
Energy Sources (more than one may apply)					
Electricity	67	5,443	81	634	7,245
Natural Gas	25	2,444	100	305	3,578
Fuel Oil	4	1,731	393	177	1,960
District Heat	67	5,443	81	634	7,245
District Chilled Water	25	2,311	93	309	Q
Propane	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q

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

	All Buildings* Using District Heat			District Heat Consumption	District Heat Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million dollars)
All Buildings*	67	5,443	81	634	7,245
Space-Heating Energy Sources					
District Heat	65	5,198	80	633	7,238
District Heat Main	63	4,907	77	618	7,089
District Heat Secondary	2	340	167	Q	Q
Other Excluding District Heat	Q	Q	Q	Q	Q
Buildings without Heating	Q	Q	Q	Q	Q
Primary Space-Heating Energy Source					
Electricity	Q	Q	Q	Q	Q
Natural Gas	Q	Q	Q	Q	Q
Fuel Oil	N	N	N	N	N
District Heat	63	4,907	77	618	7,089
Propane	N	N	N	N	N
Other	N	N	N	N	N
Cooling Energy Sources					
District Heat	Q	Q	Q	Q	Q
Other Excluding District Heat	54	4,204	78	493	5,743
Buildings without Cooling	Q	Q	Q	Q	Q
Water-Heating Energy Sources					
District Heat	27	3,088	113	329	3,690
Other Excluding District Heat	34	1,543	46	194	Q
Buildings without Water Heating	Q	Q	Q	Q	Q
Cooking Energy Sources					
District Heat	2	588	361	77	Q
Other Excluding District Heat	7	1,338	Q	142	1,547
Buildings without Cooking	58	3,517	61	415	4,849
Energy End Uses (more than one may apply)					
Buildings with Space Heating	67	5,378	81	634	7,242
Buildings with Cooling	55	4,653	85	535	6,079
Buildings with Water Heating	61	4,631	76	523	5,984
Buildings with Cooking	9	1,926	214	219	2,396
Buildings with Manufacturing	Q	Q	Q	Q	Q
Buildings with Electricity Generation	7	2,121	309	237	2,772
Percent of Floorspace Heated					
Not Heated	Q	Q	Q	Q	Q
1 to 50	Q	Q	Q	Q	Q
51 to 99	5	636	116	57	Q
100	60	4,716	78	575	6,635

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

	All Buildings* Using District Heat			District Heat Consumption	District Heat Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million dollars)
All Buildings*	67	5,443	81	634	7,245
Heating Equipment (more than one may apply)					
Heat Pumps	2	413	208	Q	Q
Packaged Heat Pumps	Q	Q	Q	Q	Q
Split-System Heat Pumps	Q	Q	Q	Q	Q
Individual Room Heat Pumps	Q	Q	Q	Q	Q
Furnaces	Q	Q	Q	Q	Q
Individual Space Heaters	5	605	124	50	Q
District Heat	65	5,166	80	628	7,177
Boilers	Q	Q	Q	Q	Q
Packaged Heating Units	3	589	191	Q	Q
Other	Q	Q	Q	Q	Q
Water Heating Equipment					
Centralized System	43	2,671	62	286	3,266
Distributed System	5	483	89	Q	Q
Combination of Centralized and Distributed System	12	1,477	119	170	1,811
Energy-Related Space Functions (more than one may apply)					
Commercial Food Preparation	9	1,926	214	219	2,396
Activities with Large Amounts of Hot Water	19	2,259	121	273	3,003
Separate Computer Area	19	3,268	172	374	4,282
HVAC Conservation Features (more than one may apply)					
Variable Air-Volume System	26	3,017	117	368	4,184
Economizer Cycle	22	3,045	140	334	3,896
HVAC Maintenance	60	5,154	86	612	6,987
Energy Management and Control System (EMCS)	18	2,782	158	320	3,636
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]					
Heating	30	3,140	105	356	4,048
Cooling	29	3,378	117	390	4,461
Lighting	49	3,624	73	406	4,534
Office Equipment	23	1,325	58	Q	Q

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

	All Buildings* Using District Heat			District Heat Consumption	District Heat Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million dollars)
All Buildings*	67	5,443	81	634	7,245

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, there were no responding malls in the sample using district heat.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use district heat.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

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

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

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

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

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

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

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

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

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

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

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

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

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, In the 1999 CBECS, there were no responding malls in the sample using district heat.

[a] The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use district heat.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C1A. Total Energy Consumption by Major Fuel for All Buildings, 2003

	All Buildings		Total Energy Consumption (trillion Btu)					
				Electricity				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Primary	Site	Natural Gas	Fuel Oil	District Heat
All Buildings	4,859	71,658	6,523	10,746	3,559	2,100	228	636
Building Floorspace (Square Feet)								
1,001 to 5,000	2,586	6,922	685	1,185	392	257	34	Q
5,001 to 10,000	948	7,033	563	883	293	224	36	Q
10,001 to 25,000	810	12,659	899	1,464	485	353	28	Q
25,001 to 50,000	261	9,382	742	1,199	397	278	17	Q
50,001 to 100,000	147	10,291	913	1,579	523	277	29	Q
100,001 to 200,000	74	10,217	1,064	1,771	587	275	37	165
200,001 to 500,000	26	7,494	751	1,152	381	211	36	123
Over 500,000	8	7,660	906	1,513	501	224	10	171
Principal Building Activity								
Education	386	9,874	820	1,121	371	268	47	134
Food Sales	226	1,255	251	629	208	39	Q	N
Food Service	297	1,654	427	654	217	203	Q	Q
Health Care	129	3,163	594	748	248	243	11	Q
Inpatient	8	1,905	475	539	178	204	9	Q
Outpatient	121	1,258	119	209	69	38	Q	Q
Lodging	142	5,096	510	709	235	215	35	Q
Mercantile	657	11,192	1,021	2,214	733	264	21	Q
Retail (Other Than Mall)	443	4,317	319	637	211	91	Q	Q
Enclosed and Strip Malls	213	6,875	702	1,578	523	172	Q	Q
Office	824	12,208	1,134	2,170	719	269	18	128
Public Assembly	277	3,939	370	506	167	102	29	Q
Public Order and Safety	71	1,090	126	172	57	29	8	Q
Religious Worship	370	3,754	163	188	62	82	18	Q
Service	622	4,050	312	451	149	139	Q	Q
Warehouse and Storage	597	10,078	456	738	244	132	9	Q
Other	79	1,738	286	401	133	87	Q	Q
Vacant	182	2,567	54	46	15	28	Q	Q
Year Constructed								
Before 1920	333	3,784	303	274	91	143	38	Q
1920 to 1945	536	6,985	631	649	215	232	55	129
1946 to 1959	573	7,262	588	744	247	223	48	Q
1960 to 1969	600	8,641	791	1,085	359	276	Q	117
1970 to 1979	784	12,275	1,191	2,079	689	402	23	77
1980 to 1989	768	12,468	1,247	2,382	789	339	12	Q
1990 to 1999	917	13,981	1,262	2,484	823	345	9	Q
2000 to 2003	347	6,262	511	1,048	347	140	Q	Q
Census Region and Division								
Northeast	761	13,995	1,396	1,772	587	462	181	166
New England	252	3,452	345	426	141	87	74	Q
Middle Atlantic	509	10,543	1,052	1,347	446	375	107	Q
Midwest	1,305	18,103	1,799	2,414	799	751	24	225
East North Central	728	12,424	1,343	1,733	574	567	Q	192
West North Central	577	5,680	456	681	225	184	Q	Q
South	1,873	26,739	2,265	4,654	1,542	527	15	182
South Atlantic	926	13,999	1,241	2,612	865	246	13	117
East South Central	360	3,719	340	591	196	107	1	Q
West South Central	587	9,022	684	1,451	481	174	1	Q
West	920	12,820	1,063	1,905	631	360	9	Q
Mountain	316	4,207	446	700	232	190	Q	Q
Pacific	603	8,613	617	1,205	399	170	4	Q

Table C1A. Total Energy Consumption by Major Fuel for All Buildings, 2003

	All Buildings		Total Energy Consumption (trillion Btu)					
				Electricity				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Primary	Site	Natural Gas	Fuel Oil	District Heat
All Buildings	4,859	71,658	6,523	10,746	3,559	2,100	228	636
Climate Zone: 30-Year Average								
Under 2,000 CDD and --								
More than 7,000 HDD	882	11,529	1,086	1,412	468	468	63	88
5,500-7,000 HDD	1,229	18,808	1,929	2,621	868	737	67	257
4,000-5,499 HDD	701	12,503	1,243	1,947	645	368	91	140
Fewer than 4,000 HDD	1,336	17,630	1,386	2,686	890	389	6	101
2,000 CDD or More and --								
Fewer than 4,000 HDD	711	11,189	879	2,081	689	138	1	Q
Number of Establishments								
One	3,754	45,144	4,167	6,454	2,138	1,462	183	384
2 to 5	762	12,565	1,161	1,859	616	359	31	156
6 to 10	117	3,358	378	692	229	95	7	Q
11 to 20	47	3,369	307	656	217	69	Q	Q
More than 20	22	5,060	473	1,056	350	96	Q	Q
Currently Unoccupied	157	2,161	37	28	9	18	Q	Q
Energy Sources (more than one may apply)								
Electricity	4,617	70,181	6,522	10,746	3,559	2,100	228	636
Natural Gas	2,538	48,473	5,042	7,651	2,534	2,100	101	306
Fuel Oil	465	16,265	1,867	2,830	937	523	228	179
District Heat	67	5,576	1,029	1,040	344	48	1	636
Energy End Uses (more than one may apply)								
Buildings with Space Heating	4,182	66,446	6,370	10,365	3,433	2,077	225	635
Buildings with Cooling	3,825	63,560	6,149	10,402	3,445	1,987	181	536
Buildings with Water Heating	3,659	62,827	6,158	10,202	3,379	2,035	218	525

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use the particular energy source.

Notes: ● Site electricity is the amount of electricity delivered to commercial buildings. Primary electricity, which is not included in the "Total of Major Fuels" category, is site electricity plus the conversion losses in the generation, transmission, and distribution processes. ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C2A. Total Energy Expenditures by Major Fuel for All Buildings, 2003

	All Buildings		Total Energy Expenditures (million dollars)				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings	4,859	71,658	107,897	82,783	16,010	1,826	7,279
Building Floorspace (Square Feet)							
1,001 to 5,000	2,586	6,922	13,083	10,547	2,227	292	Q
5,001 to 10,000	948	7,033	10,443	8,199	1,830	307	Q
10,001 to 25,000	810	12,659	15,689	12,172	2,897	238	Q
25,001 to 50,000	261	9,382	11,898	9,179	2,054	134	Q
50,001 to 100,000	147	10,291	15,171	11,694	2,140	229	Q
100,001 to 200,000	74	10,217	16,087	11,962	1,964	279	Q
200,001 to 500,000	26	7,494	10,940	7,862	1,396	272	Q
Over 500,000	8	7,660	14,586	11,167	1,502	74	1,843
Principal Building Activity							
Education	386	9,874	12,008	8,111	1,889	362	Q
Food Sales	226	1,255	4,990	4,627	332	Q	N
Food Service	297	1,654	6,865	5,176	1,615	Q	Q
Health Care	129	3,163	7,440	4,882	1,538	79	Q
Inpatient	8	1,905	5,329	3,198	1,241	67	Q
Outpatient	121	1,258	2,111	1,684	297	Q	Q
Lodging	142	5,096	7,445	5,288	1,581	272	Q
Mercantile	657	11,192	21,300	18,883	2,204	167	Q
Retail (Other Than Mall)	443	4,317	5,980	5,132	719	117	Q
Enclosed and Strip Malls	213	6,875	15,320	13,751	1,486	Q	Q
Office	824	12,208	20,841	17,050	2,201	149	1,441
Public Assembly	277	3,939	5,790	3,943	775	230	Q
Public Order and Safety	71	1,090	1,917	1,216	234	Q	Q
Religious Worship	370	3,754	2,457	1,628	664	Q	Q
Service	622	4,050	4,779	3,485	1,096	Q	Q
Warehouse and Storage	597	10,078	6,894	5,034	976	74	Q
Other	79	1,738	4,420	3,049	684	Q	Q
Vacant	182	2,567	751	412	220	Q	Q
Year Constructed							
Before 1920	333	3,784	4,153	2,338	1,136	304	Q
1920 to 1945	536	6,985	8,946	5,364	1,734	425	1,423
1946 to 1959	573	7,262	9,053	6,184	1,668	392	Q
1960 to 1969	600	8,641	12,493	8,626	2,064	Q	Q
1970 to 1979	784	12,275	19,585	15,679	2,877	185	Q
1980 to 1989	768	12,468	22,142	18,258	2,685	103	Q
1990 to 1999	917	13,981	22,356	18,560	2,722	72	Q
2000 to 2003	347	6,262	9,169	7,773	1,125	Q	Q
Census Region and Division							
Northeast	761	13,995	24,395	16,907	3,883	1,437	2,169
New England	252	3,452	6,084	4,157	806	592	Q
Middle Atlantic	509	10,543	18,311	12,750	3,076	845	Q
Midwest	1,305	18,103	23,398	15,677	5,215	178	2,329
East North Central	728	12,424	17,511	11,503	3,968	Q	Q
West North Central	577	5,680	5,888	4,174	1,246	Q	Q
South	1,873	26,739	38,398	31,849	4,356	130	Q
South Atlantic	926	13,999	21,396	17,693	2,225	116	Q
East South Central	360	3,719	5,154	3,881	869	Q	Q
West South Central	587	9,022	11,848	10,275	1,262	6	Q
West	920	12,820	21,706	18,350	2,557	82	Q
Mountain	316	4,207	6,726	5,205	1,252	Q	Q
Pacific	603	8,613	14,980	13,145	1,305	Q	Q

Table C2A. Total Energy Expenditures by Major Fuel for All Buildings, 2003

	All Buildings		Total Energy Expenditures (million dollars)				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings	4,859	71,658	107,897	82,783	16,010	1,826	7,279
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	882	11,529	15,307	10,479	3,329	472	Q
5,500-7,000 HDD	1,229	18,808	27,921	19,181	5,416	565	Q
4,000-5,499 HDD	701	12,503	20,888	15,439	2,989	723	Q
Fewer than 4,000 HDD	1,336	17,630	26,517	22,055	3,218	57	Q
2,000 CDD or More and --							
Fewer than 4,000 HDD	711	11,189	17,263	15,629	1,058	8	Q
Number of Establishments							
One	3,754	45,144	65,153	48,376	10,950	1,466	4,361
2 to 5	762	12,565	19,503	14,425	2,838	251	Q
6 to 10	117	3,358	6,782	5,587	782	Q	Q
11 to 20	47	3,369	6,213	5,449	555	Q	Q
More than 20	22	5,060	9,730	8,688	743	Q	Q
Currently Unoccupied	157	2,161	516	258	142	Q	Q
Energy Sources (more than one may apply)							
Electricity	4,617	70,181	107,894	82,783	16,009	1,824	7,279
Natural Gas	2,538	48,473	78,522	58,107	16,010	794	3,611
Fuel Oil	465	16,265	28,286	20,791	3,676	1,826	1,993
District Heat	67	5,576	14,404	6,782	333	10	7,279
Energy End Uses (more than one may apply)							
Buildings with Space Heating	4,182	66,446	103,845	78,955	15,821	1,794	7,276
Buildings with Cooling	3,825	63,560	102,694	80,010	15,141	1,430	6,112
Buildings with Water Heating	3,659	62,827	101,438	78,235	15,453	1,732	6,018

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use the particular energy source.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C3A. Consumption and Gross Energy Intensity for Sum of Major Fuels for All Buildings, 2003

	All Buildings			Sum of Major Fuel Consumption		
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)
All Buildings	4,859	71,658	14.7	6,523	1,342	91.0
Building Floorspace (Square Feet)						
1,001 to 5,000	2,586	6,922	2.7	685	265	99.0
5,001 to 10,000	948	7,033	7.4	563	594	80.0
10,001 to 25,000	810	12,659	15.6	899	1,110	71.0
25,001 to 50,000	261	9,382	36.0	742	2,843	79.0
50,001 to 100,000	147	10,291	70.2	913	6,230	88.7
100,001 to 200,000	74	10,217	138.6	1,064	14,436	104.2
200,001 to 500,000	26	7,494	287.6	751	28,831	100.2
Over 500,000	8	7,660	937.6	906	110,855	118.2
Principal Building Activity						
Education	386	9,874	25.6	820	2,125	83.1
Food Sales	226	1,255	5.6	251	1,110	199.7
Food Service	297	1,654	5.6	427	1,436	258.3
Health Care	129	3,163	24.6	594	4,612	187.7
Inpatient	8	1,905	241.4	475	60,152	249.2
Outpatient	121	1,258	10.4	119	985	94.6
Lodging	142	5,096	35.8	510	3,578	100.0
Mercantile	657	11,192	17.0	1,021	1,556	91.3
Retail (Other Than Mall)	443	4,317	9.7	319	720	73.9
Enclosed and Strip Malls	213	6,875	32.2	702	3,292	102.2
Office	824	12,208	14.8	1,134	1,376	92.9
Public Assembly	277	3,939	14.2	370	1,338	93.9
Public Order and Safety	71	1,090	15.5	126	1,791	115.8
Religious Worship	370	3,754	10.1	163	440	43.5
Service	622	4,050	6.5	312	501	77.0
Warehouse and Storage	597	10,078	16.9	456	764	45.2
Other	79	1,738	21.9	286	3,600	164.4
Vacant	182	2,567	14.1	54	294	20.9
Year Constructed						
Before 1920	333	3,784	11.4	303	912	80.2
1920 to 1945	536	6,985	13.0	631	1,177	90.4
1946 to 1959	573	7,262	12.7	588	1,026	80.9
1960 to 1969	600	8,641	14.4	791	1,317	91.5
1970 to 1979	784	12,275	15.6	1,191	1,518	97.0
1980 to 1989	768	12,468	16.2	1,247	1,622	100.0
1990 to 1999	917	13,981	15.2	1,262	1,376	90.2
2000 to 2003	347	6,262	18.1	511	1,473	81.6
Census Region and Division						
Northeast	761	13,995	18.4	1,396	1,834	99.8
New England	252	3,452	13.7	345	1,368	99.8
Middle Atlantic	509	10,543	20.7	1,052	2,064	99.7
Midwest	1,305	18,103	13.9	1,799	1,379	99.4
East North Central	728	12,424	17.1	1,343	1,846	108.1
West North Central	577	5,680	9.8	456	790	80.2
South	1,873	26,739	14.3	2,265	1,209	84.7
South Atlantic	926	13,999	15.1	1,241	1,340	88.7
East South Central	360	3,719	10.3	340	944	91.4
West South Central	587	9,022	15.4	684	1,164	75.8
West	920	12,820	13.9	1,063	1,156	82.9
Mountain	316	4,207	13.3	446	1,411	106.1
Pacific	603	8,613	14.3	617	1,022	71.6

Table C3A. Consumption and Gross Energy Intensity for Sum of Major Fuels for All Buildings, 2003

	All Buildings			Sum of Major Fuel Consumption		
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)
All Buildings	4,859	71,658	14.7	6,523	1,342	91.0
Climate Zone: 30-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	882	11,529	13.1	1,086	1,231	94.2
5,500-7,000 HDD	1,229	18,808	15.3	1,929	1,570	102.6
4,000-5,499 HDD	701	12,503	17.8	1,243	1,773	99.4
Fewer than 4,000 HDD	1,336	17,630	13.2	1,386	1,038	78.6
2,000 CDD or More and --						
Fewer than 4,000 HDD	711	11,189	15.7	879	1,236	78.6
Number of Establishments						
One	3,754	45,144	12.0	4,167	1,110	92.3
2 to 5	762	12,565	16.5	1,161	1,525	92.4
6 to 10	117	3,358	28.6	378	3,222	112.6
11 to 20	47	3,369	71.8	307	6,540	91.1
More than 20	22	5,060	227.3	473	21,234	93.4
Currently Unoccupied	157	2,161	13.8	37	237	17.2
Energy Sources (more than one may apply)						
Electricity	4,617	70,181	15.2	6,522	1,413	92.9
Natural Gas	2,538	48,473	19.1	5,042	1,987	104.0
Fuel Oil	465	16,265	35.0	1,867	4,012	114.8
District Heat	67	5,576	83.1	1,029	15,337	184.6
Energy End Uses (more than one may apply)						
Buildings with Space Heating	4,182	66,446	15.9	6,370	1,523	95.9
Buildings with Cooling	3,825	63,560	16.6	6,149	1,608	96.7
Buildings with Water Heating	3,659	62,827	17.2	6,158	1,683	98.0

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C4A. Expenditures for Sum of Major Fuels for All Buildings, 2003

	All Buildings			Sum of Major Fuel Expenditures			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)
All Buildings	4,859	71,658	14.7	107,897	22.2	1.51	16.54
Building Floorspace (Square Feet)							
1,001 to 5,000	2,586	6,922	2.7	13,083	5.1	1.89	19.08
5,001 to 10,000	948	7,033	7.4	10,443	11.0	1.48	18.56
10,001 to 25,000	810	12,659	15.6	15,689	19.4	1.24	17.46
25,001 to 50,000	261	9,382	36.0	11,898	45.6	1.27	16.04
50,001 to 100,000	147	10,291	70.2	15,171	103.5	1.47	16.62
100,001 to 200,000	74	10,217	138.6	16,087	218.2	1.57	15.12
200,001 to 500,000	26	7,494	287.6	10,940	419.8	1.46	14.56
Over 500,000	8	7,660	937.6	14,586	1785.5	1.90	16.11
Principal Building Activity							
Education	386	9,874	25.6	12,008	31.1	1.22	14.64
Food Sales	226	1,255	5.6	4,990	22.1	3.98	19.91
Food Service	297	1,654	5.6	6,865	23.1	4.15	16.07
Health Care	129	3,163	24.6	7,440	57.8	2.35	12.53
Inpatient	8	1,905	241.4	5,329	675.4	2.80	11.23
Outpatient	121	1,258	10.4	2,111	17.5	1.68	17.74
Lodging	142	5,096	35.8	7,445	52.3	1.46	14.61
Mercantile	657	11,192	17.0	21,300	32.4	1.90	20.85
Retail (Other Than Mall)	443	4,317	9.7	5,980	13.5	1.39	18.75
Enclosed and Strip Malls	213	6,875	32.2	15,320	71.8	2.23	21.81
Office	824	12,208	14.8	20,841	25.3	1.71	18.39
Public Assembly	277	3,939	14.2	5,790	20.9	1.47	15.65
Public Order and Safety	71	1,090	15.5	1,917	27.2	1.76	15.18
Religious Worship	370	3,754	10.1	2,457	6.6	0.65	15.06
Service	622	4,050	6.5	4,779	7.7	1.18	15.33
Warehouse and Storage	597	10,078	16.9	6,894	11.5	0.68	15.12
Other	79	1,738	21.9	4,420	55.7	2.54	15.47
Vacant	182	2,567	14.1	751	4.1	0.29	14.02
Year Constructed							
Before 1920	333	3,784	11.4	4,153	12.5	1.10	13.69
1920 to 1945	536	6,985	13.0	8,946	16.7	1.28	14.17
1946 to 1959	573	7,262	12.7	9,053	15.8	1.25	15.40
1960 to 1969	600	8,641	14.4	12,493	20.8	1.45	15.80
1970 to 1979	784	12,275	15.6	19,585	25.0	1.60	16.45
1980 to 1989	768	12,468	16.2	22,142	28.8	1.78	17.76
1990 to 1999	917	13,981	15.2	22,356	24.4	1.60	17.72
2000 to 2003	347	6,262	18.1	9,169	26.5	1.46	17.95
Census Region and Division							
Northeast	761	13,995	18.4	24,395	32.1	1.74	17.47
New England	252	3,452	13.7	6,084	24.2	1.76	17.66
Middle Atlantic	509	10,543	20.7	18,311	35.9	1.74	17.41
Midwest	1,305	18,103	13.9	23,398	17.9	1.29	13.01
East North Central	728	12,424	17.1	17,511	24.1	1.41	13.04
West North Central	577	5,680	9.8	5,888	10.2	1.04	12.92
South	1,873	26,739	14.3	38,398	20.5	1.44	16.95
South Atlantic	926	13,999	15.1	21,396	23.1	1.53	17.24
East South Central	360	3,719	10.3	5,154	14.3	1.39	15.16
West South Central	587	9,022	15.4	11,848	20.2	1.31	17.33
West	920	12,820	13.9	21,706	23.6	1.69	20.42
Mountain	316	4,207	13.3	6,726	21.3	1.60	15.07
Pacific	603	8,613	14.3	14,980	24.8	1.74	24.28

Table C4A. Expenditures for Sum of Major Fuels for All Buildings, 2003

	All Buildings			Sum of Major Fuel Expenditures			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)
All Buildings	4,859	71,658	14.7	107,897	22.2	1.51	16.54
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	882	11,529	13.1	15,307	17.4	1.33	14.09
5,500-7,000 HDD	1,229	18,808	15.3	27,921	22.7	1.48	14.47
4,000-5,499 HDD	701	12,503	17.8	20,888	29.8	1.67	16.81
Fewer than 4,000 HDD	1,336	17,630	13.2	26,517	19.9	1.50	19.14
2,000 CDD or More and --							
Fewer than 4,000 HDD	711	11,189	15.7	17,263	24.3	1.54	19.63
Number of Establishments							
One	3,754	45,144	12.0	65,153	17.4	1.44	15.64
2 to 5	762	12,565	16.5	19,503	25.6	1.55	16.80
6 to 10	117	3,358	28.6	6,782	57.8	2.02	17.93
11 to 20	47	3,369	71.8	6,213	132.4	1.84	20.24
More than 20	22	5,060	227.3	9,730	437.1	1.92	20.59
Currently Unoccupied	157	2,161	13.8	516	3.3	0.24	13.88
Energy Sources (more than one may apply)							
Electricity	4,617	70,181	15.2	107,894	23.4	1.54	16.54
Natural Gas	2,538	48,473	19.1	78,522	30.9	1.62	15.57
Fuel Oil	465	16,265	35.0	28,286	60.8	1.74	15.15
District Heat	67	5,576	83.1	14,404	214.6	2.58	13.99
Energy End Uses (more than one may apply)							
Buildings with Space Heating	4,182	66,446	15.9	103,845	24.8	1.56	16.30
Buildings with Cooling	3,825	63,560	16.6	102,694	26.8	1.62	16.70
Buildings with Water Heating	3,659	62,827	17.2	101,438	27.7	1.61	16.47

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C5A. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels for All Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	1,396	1,799	2,265	1,063	13,995	18,103	26,739	12,820	99.8	99.4	84.7	82.9
Building Floorspace (Square Feet)												
1,001 to 5,000	123	207	248	108	1,059	1,908	2,618	1,337	116.4	108.3	94.7	80.6
5,001 to 10,000	107	128	204	123	1,169	1,676	2,844	1,343	91.9	76.5	71.7	91.6
10,001 to 25,000	166	258	295	180	2,122	3,317	4,859	2,361	78.3	77.7	60.7	76.1
25,001 to 50,000	117	261	236	127	1,388	2,712	3,474	1,808	84.6	96.3	67.9	70.3
50,001 to 100,000	234	225	326	127	2,272	2,376	4,059	1,584	103.2	94.9	80.3	80.2
100,001 to 200,000	224	273	449	118	2,238	2,486	4,140	1,353	100.3	109.7	108.4	87.5
200,001 to 500,000	189	252	207	103	1,781	2,288	2,109	1,316	106.3	110.0	98.3	78.3
Over 500,000	Q	195	300	177	1,967	1,341	2,635	1,717	Q	145.4	113.8	103.0
Principal Building Activity												
Education	171	219	301	129	1,683	2,541	3,983	1,667	101.6	86.3	75.5	77.6
Food Sales	Q	70	91	Q	238	320	487	Q	Q	219.1	187.7	Q
Food Service	Q	99	217	65	172	453	764	265	Q	218.8	283.4	243.8
Health Care	114	164	217	99	535	798	1,277	553	212.2	205.6	169.8	179.6
Inpatient	Q	119	190	67	358	438	838	270	Q	272.2	226.7	246.8
Outpatient	Q	45	27	33	177	359	438	283	Q	124.4	60.9	115.3
Lodging	108	125	164	113	1,171	1,144	1,694	1,087	Q	109.0	96.9	103.7
Mercantile	166	200	443	213	1,720	1,904	5,094	2,473	96.5	104.8	87.0	86.0
Retail (Other Than Mall)	41	90	127	61	630	880	1,844	963	65.0	102.7	68.7	63.2
Enclosed and Strip Malls	125	109	316	152	1,090	1,024	3,251	1,511	Q	106.6	97.3	100.6
Office	305	325	329	175	3,012	2,989	3,782	2,425	101.2	108.8	87.0	72.1
Public Assembly	93	103	109	64	1,048	1,012	1,174	706	Q	101.7	93.2	91.2
Public Order and Safety	Q	Q	Q	Q	362	221	373	Q	Q	Q	Q	Q
Religious Worship	33	59	57	14	627	1,115	1,498	515	52.1	52.8	38.3	27.6
Service	59	110	90	53	740	1,289	1,358	664	79.8	85.0	66.3	80.0
Warehouse and Storage	63	225	106	61	1,523	3,017	3,966	1,572	41.6	74.7	26.7	39.0
Other	Q	Q	Q	Q	649	316	Q	186	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	517	984	701	Q	Q	Q	Q	Q
Year Constructed												
Before 1920	115	123	42	Q	1,412	1,552	525	295	81.4	79.4	79.3	Q
1920 to 1945	229	262	80	61	2,578	2,099	1,365	942	88.8	124.6	58.4	64.6
1946 to 1959	195	173	144	75	2,149	2,093	1,874	1,146	90.7	82.9	76.9	65.7
1960 to 1969	225	222	217	127	1,858	2,434	2,689	1,660	121.2	91.4	80.5	76.2
1970 to 1979	219	360	377	235	1,916	3,543	4,410	2,407	114.5	101.6	85.5	97.5
1980 to 1989	177	246	563	260	1,675	2,221	5,834	2,738	105.8	110.9	96.5	94.9
1990 to 1999	137	301	619	204	1,544	2,888	7,202	2,347	88.5	104.2	86.0	87.1
2000 to 2003	Q	111	223	78	863	1,274	2,840	1,286	Q	86.9	78.6	60.7
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	211	573	N	302	2,567	5,910	N	3,052	82.2	97.0	N	99.0
5,500-7,000 HDD	597	1,112	N	219	5,989	10,584	N	2,234	99.8	105.1	N	98.2
4,000-5,499 HDD	588	114	472	Q	5,440	1,609	4,736	718	108.0	70.5	99.7	96.4
Fewer than 4,000 HDD	N	N	997	389	N	N	11,506	6,125	N	N	86.6	63.5
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	796	84	N	N	10,497	692	N	N	75.8	121.0

Table C5A. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels for All Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	1,396	1,799	2,265	1,063	13,995	18,103	26,739	12,820	99.8	99.4	84.7	82.9
Number of Establishments												
One	841	1,262	1,374	689	8,061	12,359	16,947	7,776	104.4	102.1	81.1	88.6
2 to 5	280	326	393	162	2,802	3,116	4,493	2,155	99.9	104.7	87.6	75.0
6 to 10	92	81	149	57	792	730	1,212	624	116.5	110.3	122.7	90.8
11 to 20	Q	63	144	49	884	552	1,342	591	Q	114.2	107.3	83.1
More than 20	Q	Q	197	104	1,118	453	2,094	1,396	Q	Q	94.1	74.7
Currently Unoccupied	Q	Q	Q	Q	Q	892	652	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)												
Electricity	1,396	1,798	2,265	1,063	13,899	17,725	26,017	12,541	100.4	101.5	87.0	84.8
Natural Gas	1,110	1,485	1,600	847	10,162	14,144	15,260	8,907	109.2	105.0	104.9	95.0
Fuel Oil	678	395	535	259	6,464	2,909	4,663	2,230	104.8	135.9	114.7	116.1
District Heat	Q	336	324	Q	1,496	1,648	1,766	667	Q	204.2	183.7	Q
Energy End Uses (more than one may apply)												
Buildings with Space Heating	1,388	1,791	2,195	996	13,675	17,355	23,999	11,417	101.5	103.2	91.5	87.2
Buildings with Cooling	1,291	1,618	2,238	1,002	12,016	15,474	24,723	11,347	107.4	104.5	90.5	88.3
Buildings with Water Heating	1,338	1,640	2,159	1,021	12,875	15,865	22,859	11,227	103.9	103.4	94.5	90.9

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C6A. Expenditures by Census Region for Sum of Major Fuels for All Buildings, 2003

	Sum of Major Fuel Expenditures (million dollars)				Sum of Major Fuel Expenditures (dollars)							
					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	24,395	23,398	38,398	21,706	17.47	13.01	16.95	20.42	1.74	1.29	1.44	1.69
Building Floorspace (Square Feet)												
1,001 to 5,000	2,398	3,255	4,899	2,530	19.47	15.75	19.77	23.46	2.26	1.71	1.87	1.89
5,001 to 10,000	1,978	1,887	3,761	2,816	18.42	14.71	18.44	22.90	1.69	1.13	1.32	2.10
10,001 to 25,000	3,015	3,667	5,526	3,482	18.15	14.22	18.72	19.37	1.42	1.11	1.14	1.47
25,001 to 50,000	2,054	3,252	4,095	2,497	17.50	12.45	17.36	19.65	1.48	1.20	1.18	1.38
50,001 to 100,000	4,190	2,843	5,443	2,695	17.87	12.61	16.69	21.21	1.84	1.20	1.34	1.70
100,001 to 200,000	3,686	3,388	6,850	2,163	16.43	12.42	15.27	18.26	1.65	1.36	1.65	1.60
200,001 to 500,000	2,877	2,951	3,158	1,955	15.20	11.73	15.23	18.96	1.62	1.29	1.50	1.49
Over 500,000	Q	2,156	4,666	3,568	Q	11.06	15.56	20.17	Q	1.61	1.77	2.08
Principal Building Activity												
Education	2,508	2,465	4,948	2,087	14.66	11.24	16.46	16.14	1.49	0.97	1.24	1.25
Food Sales	Q	1,192	1,814	Q	Q	16.99	19.86	Q	Q	3.72	3.73	Q
Food Service	Q	1,384	3,399	1,250	Q	13.95	15.70	19.37	Q	3.05	4.45	4.72
Health Care	1,510	1,690	2,681	1,560	13.30	10.30	12.37	15.70	2.82	2.12	2.10	2.82
Inpatient	Q	1,052	2,180	Q	Q	8.81	11.47	Q	Q	2.40	2.60	Q
Outpatient	Q	638	501	658	Q	14.27	18.76	20.17	Q	1.78	1.14	2.33
Lodging	1,531	1,434	2,451	2,029	14.16	11.51	14.92	18.00	Q	1.25	1.45	1.87
Mercantile	3,888	3,089	9,236	5,087	23.43	15.48	20.84	23.91	2.26	1.62	1.81	2.06
Retail (Other Than Mall)	837	1,212	2,433	1,499	20.43	13.40	19.20	24.64	1.33	1.38	1.32	1.56
Enclosed and Strip Malls	3,051	1,878	6,803	3,588	24.42	17.21	21.50	23.61	Q	1.83	2.09	2.38
Office	6,229	4,787	5,609	4,216	20.44	14.72	17.05	24.13	2.07	1.60	1.48	1.74
Public Assembly	1,329	1,290	1,735	Q	14.22	12.54	15.87	22.31	Q	1.28	1.48	2.03
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	425	693	1,071	268	13.02	11.76	18.66	18.86	0.68	0.62	0.71	0.52
Service	942	1,434	1,535	867	15.97	13.09	Q	16.33	1.27	1.11	1.13	1.31
Warehouse and Storage	1,056	2,724	1,928	1,187	16.66	12.08	18.24	19.36	0.69	0.90	0.49	0.76
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed												
Before 1920	1,720	1,434	617	Q	14.96	11.63	14.82	Q	1.22	0.92	1.18	Q
1920 to 1945	3,431	2,880	1,337	1,298	14.98	11.01	16.78	21.31	1.33	1.37	0.98	1.38
1946 to 1959	3,108	2,195	2,250	1,500	15.94	12.66	15.62	19.93	1.45	1.05	1.20	1.31
1960 to 1969	3,817	2,767	3,534	2,375	16.96	12.44	16.31	18.77	2.06	1.14	1.31	1.43
1970 to 1979	4,127	4,764	6,368	4,327	18.82	13.24	16.89	18.44	2.15	1.34	1.44	1.80
1980 to 1989	3,726	3,509	9,517	5,390	21.03	14.25	16.90	20.74	2.22	1.58	1.63	1.97
1990 to 1999	2,658	4,240	10,636	4,822	19.45	14.08	17.17	23.59	1.72	1.47	1.48	2.05
2000 to 2003	1,808	1,610	4,140	1,612	Q	14.55	18.54	20.66	2.09	1.26	1.46	1.25
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	3,832	7,377	N	4,098	18.16	12.87	N	13.57	1.49	1.25	N	1.34
5,500-7,000 HDD	10,042	14,566	N	3,313	16.81	13.10	N	15.10	1.68	1.38	N	1.48
4,000-5,499 HDD	10,521	1,455	7,611	Q	17.90	12.82	16.11	18.82	1.93	0.90	1.61	1.81
Fewer than 4,000 HDD	N	N	15,344	11,173	N	N	15.39	28.73	N	N	1.33	1.82
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	15,444	1,820	N	N	19.41	21.75	N	N	1.47	2.63

Table C6A. Expenditures by Census Region for Sum of Major Fuels for All Buildings, 2003

	Sum of Major Fuel Expenditures (million dollars)				Sum of Major Fuel Expenditures (dollars)							
					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	24,395	23,398	38,398	21,706	17.47	13.01	16.95	20.42	1.74	1.29	1.44	1.69
Number of Establishments												
One	13,370	16,206	22,598	12,980	15.89	12.84	16.44	18.83	1.66	1.31	1.33	1.67
2 to 5	5,169	4,260	6,416	3,658	18.47	13.05	16.31	22.64	1.84	1.37	1.43	1.70
6 to 10	1,826	1,014	2,770	1,172	19.80	12.58	18.62	20.70	2.31	1.39	2.29	1.88
11 to 20	Q	997	2,673	1,361	Q	15.82	18.56	27.68	Q	1.81	1.99	2.30
More than 20	Q	Q	3,826	Q	Q	Q	19.41	Q	Q	Q	1.83	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)												
Electricity	24,395	23,395	38,398	21,706	17.47	13.01	16.95	20.42	1.76	1.32	1.48	1.73
Natural Gas	19,029	19,001	24,835	15,656	17.15	12.79	15.52	18.49	1.87	1.34	1.63	1.76
Fuel Oil	10,996	4,474	7,939	4,877	16.23	11.32	14.84	18.83	1.70	1.54	1.70	2.19
District Heat	Q	Q	Q	Q	Q	Q	13.30	Q	Q	Q	2.44	Q
Energy End Uses (more than one may apply)												
Buildings with Space Heating	24,226	23,245	36,718	19,657	17.46	12.98	16.73	19.74	1.77	1.34	1.53	1.72
Buildings with Cooling	22,894	21,303	37,922	20,575	17.74	13.17	16.94	20.52	1.91	1.38	1.53	1.81
Buildings with Water Heating	23,445	21,348	36,059	20,587	17.52	13.01	16.70	20.17	1.82	1.35	1.58	1.83

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C7A. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for All Buildings, 2003: Part 1

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings	345	1,052	1,343	3,452	10,543	12,424	99.8	99.7	108.1
Building Floorspace (Square Feet)									
1,001 to 5,000	37	86	147	383	676	986	95.9	127.9	148.9
5,001 to 10,000	39	68	83	369	800	939	106.0	85.4	88.2
10,001 to 25,000	Q	121	187	674	1,448	2,113	Q	83.4	88.4
25,001 to 50,000	Q	84	155	366	1,022	1,763	Q	82.5	87.6
50,001 to 100,000	Q	155	160	590	1,682	1,712	Q	92.0	93.3
100,001 to 200,000	Q	161	224	448	1,790	1,872	Q	90.0	119.6
200,001 to 500,000	Q	177	218	Q	1,673	1,847	Q	105.8	117.9
Over 500,000	Q	Q	Q	Q	1,451	1,192	Q	Q	Q
Principal Building Activity									
Education	Q	143	175	Q	1,384	1,990	Q	103.1	87.7
Food Sales	Q	Q	Q	Q	Q	218	Q	Q	Q
Food Service	Q	Q	68	Q	127	248	Q	Q	276.6
Health Care	Q	102	122	Q	464	551	Q	219.0	220.7
Inpatient	Q	Q	Q	Q	310	316	Q	Q	Q
Outpatient	Q	Q	Q	Q	Q	235	Q	Q	Q
Lodging	Q	Q	70	374	797	548	Q	Q	126.7
Mercantile	Q	104	148	699	Q	1,373	Q	Q	108.1
Retail (Other Than Mall)	Q	30	59	Q	419	544	Q	72.3	108.4
Enclosed and Strip Malls	Q	Q	89	488	Q	829	Q	Q	107.9
Office	66	239	263	578	2,434	2,190	114.6	98.0	120.1
Public Assembly	Q	Q	80	Q	769	635	Q	Q	126.8
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	Q	28	41	Q	474	720	Q	58.1	56.4
Service	Q	45	78	Q	620	775	Q	72.0	100.8
Warehouse and Storage	Q	55	175	Q	1,112	2,023	Q	49.2	86.4
Other	Q	Q	Q	Q	501	248	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	791	Q	Q	Q
Year Constructed									
Before 1920	39	76	84	450	962	999	86.5	79.0	84.5
1920 to 1945	Q	183	216	660	1,918	1,603	Q	95.5	135.0
1946 to 1959	Q	171	134	Q	1,785	1,519	Q	95.6	88.3
1960 to 1969	Q	158	150	407	1,451	1,568	Q	109.1	95.7
1970 to 1979	Q	168	266	493	1,423	2,425	Q	117.9	109.8
1980 to 1989	Q	130	200	440	1,235	1,696	Q	105.3	117.7
1990 to 1999	Q	106	213	243	1,301	1,768	Q	81.2	120.4
2000 to 2003	Q	Q	79	Q	467	845	Q	Q	93.7
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	62	Q	333	Q	1,577	3,208	63.1	94.2	103.8
5,500-7,000 HDD	282	315	1,010	2,463	3,526	9,215	114.5	89.4	109.6
4,000-5,499 HDD	N	588	N	N	5,440	N	N	108.0	N
Fewer than 4,000 HDD	N	N	N	N	N	N	N	N	N
2,000 CDD or More and --									
Fewer than 4,000 HDD	N	N	N	N	N	N	N	N	N

Table C7A. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for All Buildings, 2003: Part 1

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings	345	1,052	1,343	3,452	10,543	12,424	99.8	99.7	108.1
Number of Establishments									
One	198	643	952	1,784	6,277	8,315	111.2	102.4	114.5
2 to 5	69	211	231	756	2,046	2,096	91.2	103.1	110.0
6 to 10	Q	56	55	Q	548	459	Q	101.5	118.8
11 to 20	Q	Q	58	Q	509	501	Q	Q	116.4
More than 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q	756	Q	Q	Q
Energy Sources (more than one may apply)									
Electricity	345	1,052	1,343	3,430	10,469	12,202	100.5	100.4	110.0
Natural Gas	227	883	1,115	1,861	8,301	10,356	122.0	106.3	107.7
Fuel Oil	170	507	277	1,781	4,682	1,871	95.7	108.3	148.1
District Heat	Q	Q	Q	Q	1,082	1,420	Q	Q	Q
Energy End Uses (more than one may apply)									
Buildings with Space Heating	343	1,045	1,337	3,307	10,368	12,052	103.6	100.8	110.9
Buildings with Cooling	303	988	1,187	2,492	9,523	10,585	121.5	103.7	112.2
Buildings with Water Heating	336	1,002	1,204	3,209	9,666	10,951	104.6	103.7	109.9

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.

Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C8A. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for All Buildings, 2003: Part 2

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	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	456	1,241	340	5,680	13,999	3,719	80.2	88.7	91.4
Building Floorspace (Square Feet)									
1,001 to 5,000	60	123	37	922	1,283	547	64.9	96.2	67.6
5,001 to 10,000	45	111	27	738	1,468	420	61.6	75.4	63.2
10,001 to 25,000	71	145	74	1,204	2,443	861	59.0	59.3	Q
25,001 to 50,000	107	133	Q	949	1,867	545	112.5	71.1	Q
50,001 to 100,000	66	163	71	664	1,797	749	99.0	90.4	95.1
100,001 to 200,000	49	278	Q	614	2,422	Q	79.8	114.8	Q
200,001 to 500,000	Q	118	Q	441	1,148	Q	Q	102.4	Q
Over 500,000	Q	171	Q	Q	1,572	Q	Q	109.0	Q
Principal Building Activity									
Education	45	198	Q	552	2,445	341	81.0	80.9	Q
Food Sales	Q	Q	Q	Q	223	Q	Q	Q	Q
Food Service	Q	112	Q	206	433	99	Q	259.2	Q
Health Care	Q	120	Q	247	749	219	Q	160.1	Q
Inpatient	Q	Q	Q	Q	469	Q	Q	Q	Q
Outpatient	Q	Q	Q	Q	280	Q	Q	Q	Q
Lodging	55	91	Q	595	939	368	92.6	96.8	Q
Mercantile	51	243	52	531	2,638	678	96.3	92.2	77.1
Retail (Other Than Mall)	31	66	Q	337	897	353	93.6	73.4	Q
Enclosed and Strip Malls	Q	177	Q	Q	1,741	325	Q	101.9	Q
Office	62	155	50	799	1,958	481	77.6	79.3	103.2
Public Assembly	Q	42	Q	377	440	Q	Q	94.3	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	18	29	Q	395	721	310	46.2	39.6	Q
Service	31	Q	Q	514	753	307	61.3	73.5	Q
Warehouse and Storage	51	66	Q	994	1,836	390	51.0	35.7	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	252	Q	Q	Q	Q
Year Constructed									
Before 1920	39	Q	Q	553	Q	Q	70.2	Q	Q
1920 to 1945	Q	41	Q	496	667	300	Q	61.6	Q
1946 to 1959	39	91	Q	574	1,113	261	68.5	81.4	Q
1960 to 1969	72	111	Q	866	1,488	504	83.7	74.7	Q
1970 to 1979	93	169	70	1,117	1,672	874	83.7	101.2	79.7
1980 to 1989	47	287	75	524	3,025	540	89.1	94.8	139.6
1990 to 1999	88	387	65	1,121	4,234	842	78.8	91.5	77.4
2000 to 2003	31	130	Q	429	1,460	354	73.4	88.9	Q
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	240	N	N	2,702	N	N	88.9	N	N
5,500-7,000 HDD	102	N	N	Q	N	N	74.6	N	N
4,000-5,499 HDD	114	311	Q	1,609	3,065	Q	70.5	101.4	112.3
Fewer than 4,000 HDD	N	635	Q	N	7,126	Q	N	89.0	78.5
2,000 CDD or More and --									
Fewer than 4,000 HDD	N	296	Q	N	3,807	Q	N	77.7	98.9

Table C8A. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for All Buildings, 2003: Part 2

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	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	456	1,241	340	5,680	13,999	3,719	80.2	88.7	91.4
Number of Establishments									
One	310	752	223	4,044	8,902	2,707	76.7	84.5	82.4
2 to 5	96	221	Q	1,020	2,448	471	93.9	90.4	Q
6 to 10	Q	100	Q	Q	759	Q	Q	131.2	Q
11 to 20	Q	Q	Q	Q	684	Q	Q	Q	Q
More than 20	Q	95	Q	Q	965	Q	Q	98.2	Q
Currently Unoccupied	Q	Q	Q	Q	241	Q	Q	Q	Q
Energy Sources (more than one may apply)									
Electricity	456	1,241	340	5,523	13,837	3,546	82.5	89.7	95.9
Natural Gas	370	804	265	3,788	7,286	2,521	97.6	110.4	105.2
Fuel Oil	118	321	Q	1,037	2,961	341	114.0	108.3	Q
District Heat	Q	220	Q	Q	1,243	Q	Q	177.4	Q
Energy End Uses (more than one may apply)									
Buildings with Space Heating	455	1,191	337	5,303	12,588	3,382	85.7	94.6	99.5
Buildings with Cooling	430	1,226	336	4,888	13,186	3,311	88.0	93.0	101.6
Buildings with Water Heating	437	1,190	329	4,915	12,315	3,164	88.9	96.6	104.1

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C9A. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for All Buildings, 2003: Part 3

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings	684	446	617	9,022	4,207	8,613	75.8	106.1	71.6
Building Floorspace (Square Feet)									
1,001 to 5,000	87	44	64	788	466	871	110.9	94.8	73.0
5,001 to 10,000	67	39	84	957	465	878	69.7	84.8	95.1
10,001 to 25,000	77	91	89	1,555	933	1,429	49.4	97.2	62.4
25,001 to 50,000	70	56	71	1,062	568	1,239	65.8	98.2	57.5
50,001 to 100,000	92	49	78	1,514	492	1,092	61.0	100.2	71.2
100,001 to 200,000	119	Q	79	1,426	346	1,007	83.4	Q	78.0
200,001 to 500,000	60	Q	68	749	339	977	80.4	Q	69.6
Over 500,000	Q	Q	Q	Q	Q	1,119	Q	Q	Q
Principal Building Activity									
Education	74	53	76	1,198	640	1,027	61.4	82.9	74.3
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	Q	Q	Q	232	Q	232	Q	Q	Q
Health Care	59	Q	57	309	230	323	192.3	Q	177.7
Inpatient	Q	Q	Q	235	Q	176	Q	Q	Q
Outpatient	Q	Q	Q	Q	Q	147	Q	Q	Q
Lodging	Q	Q	47	387	438	649	Q	Q	71.8
Mercantile	148	86	127	1,778	742	1,732	83.1	115.6	73.4
Retail (Other Than Mall)	39	Q	40	594	210	753	66.3	Q	52.8
Enclosed and Strip Malls	108	Q	Q	1,185	532	979	91.4	Q	Q
Office	124	58	117	1,343	629	1,796	92.3	91.9	65.1
Public Assembly	Q	Q	Q	498	Q	468	Q	Q	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	20	Q	Q	467	Q	341	42.1	Q	Q
Service	Q	Q	Q	298	345	319	Q	Q	Q
Warehouse and Storage	30	Q	25	1,740	506	1,066	17.5	Q	23.3
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	350	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	Q	Q	Q	Q	Q	Q	Q	Q	Q
1920 to 1945	Q	Q	48	398	Q	804	Q	Q	59.7
1946 to 1959	33	25	50	500	255	891	65.7	98.4	56.3
1960 to 1969	46	64	63	697	615	1,045	66.3	103.4	60.3
1970 to 1979	138	133	101	1,865	1,135	1,272	74.1	117.4	79.7
1980 to 1989	201	Q	162	2,270	743	1,994	88.6	131.7	81.2
1990 to 1999	167	64	140	2,126	698	1,648	78.5	92.1	85.0
2000 to 2003	65	36	42	1,026	489	797	63.5	73.7	52.7
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	N	244	Q	N	2,446	Q	N	99.9	95.1
5,500-7,000 HDD	N	136	83	N	1,181	Q	N	115.5	78.8
4,000-5,499 HDD	Q	N	Q	Q	N	718	Q	N	96.4
Fewer than 4,000 HDD	195	N	389	2,255	N	6,125	86.7	N	63.5
2,000 CDD or More and --									
Fewer than 4,000 HDD	457	65	Q	6,258	580	Q	73.0	112.9	Q

Table C9A. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for All Buildings, 2003: Part 3

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings	684	446	617	9,022	4,207	8,613	75.8	106.1	71.6
Number of Establishments									
One	399	308	381	5,339	2,794	4,982	74.8	110.1	76.6
2 to 5	111	53	109	1,574	595	1,560	70.5	88.9	69.7
6 to 10	Q	Q	26	359	257	367	Q	Q	72.1
11 to 20	Q	Q	Q	412	Q	414	Q	Q	Q
More than 20	Q	Q	Q	992	Q	1,023	Q	Q	Q
Currently Unoccupied	Q	Q	Q	346	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)									
Electricity	683	446	617	8,634	4,165	8,376	79.2	107.1	73.7
Natural Gas	531	389	457	5,453	3,263	5,644	97.4	119.3	81.0
Fuel Oil	160	Q	149	1,361	655	1,575	117.6	Q	94.5
District Heat	Q	Q	Q	Q	253	413	Q	Q	Q
Energy End Uses (more than one may apply)									
Buildings with Space Heating	668	431	565	8,029	4,013	7,404	83.1	107.5	76.3
Buildings with Cooling	676	420	583	8,226	3,756	7,591	82.2	111.7	76.8
Buildings with Water Heating	640	436	584	7,380	3,935	7,292	86.8	110.9	80.1

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C10A. Consumption and Gross Energy Intensity by Climate Zone[a] for All Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)					Total Floorspace of Buildings (million square feet)					Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)				
	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	1,086	1,929	1,243	1,386	879	11,529	18,808	12,503	17,630	11,189	94.2	102.6	99.4	78.6	78.6
Building Floorspace (Square Feet)															
1,001 to 5,000	143	187	90	170	95	1,313	1,709	1,010	1,915	975	108.7	109.6	88.8	89.0	97.9
5,001 to 10,000	110	137	91	156	69	1,248	1,725	1,077	2,024	959	88.1	79.3	84.6	77.1	71.7
10,001 to 25,000	183	286	146	166	118	2,406	3,506	1,498	3,176	2,073	75.9	81.6	97.6	52.3	56.9
25,001 to 50,000	146	212	125	152	107	1,547	2,424	1,382	2,381	1,647	94.4	87.6	90.3	63.7	64.8
50,001 to 100,000	149	273	183	191	118	1,480	2,780	2,011	2,352	1,668	100.8	98.0	90.8	81.2	70.6
100,001 to 200,000	117	336	187	283	141	1,311	2,889	1,881	2,597	1,538	89.4	116.3	99.2	109.1	91.7
200,001 to 500,000	129	226	168	136	94	1,150	2,007	1,678	1,612	1,047	111.8	112.5	99.8	84.1	89.6
Over 500,000	Q	272	254	132	Q	1,073	1,766	1,966	1,573	1,282	Q	153.8	129.4	83.9	Q
Principal Building Activity															
Education	141	238	131	186	123	1,537	2,800	1,403	2,435	1,698	91.6	85.2	93.5	76.6	72.6
Food Sales	Q	Q	Q	Q	Q	271	368	Q	273	Q	Q	Q	Q	Q	Q
Food Service	52	96	Q	134	Q	227	400	219	440	366	230.1	238.7	Q	305.4	Q
Health Care	96	161	108	145	83	475	784	564	844	496	202.4	205.8	191.4	171.9	167.7
Inpatient	65	127	Q	127	Q	262	450	323	592	278	246.1	283.3	Q	215.0	Q
Outpatient	Q	34	Q	Q	Q	213	334	240	252	218	Q	101.5	Q	Q	Q
Lodging	69	174	110	104	Q	768	1,314	1,132	1,275	608	90.1	132.1	Q	81.4	Q
Mercantile	169	232	163	247	210	1,617	2,337	1,694	3,346	2,197	104.7	99.2	96.3	73.8	95.7
Retail (Other Than Mall)	73	64	54	74	55	710	865	695	1,454	592	103.0	73.5	77.7	50.7	92.0
Enclosed and Strip Malls	96	168	109	173	156	907	1,473	Q	1,892	1,604	106.1	114.3	109.3	91.5	97.0
Office	145	364	298	162	165	1,593	3,165	3,125	2,341	1,985	90.7	114.9	95.4	69.3	83.2
Public Assembly	90	74	70	101	35	876	818	806	910	529	102.2	90.8	Q	111.1	65.8
Public Order and Safety	Q	Q	Q	Q	Q	Q	360	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	26	62	26	31	19	408	1,320	499	1,039	488	62.9	46.9	52.8	29.4	38.2
Service	95	84	64	49	Q	944	1,185	644	969	308	100.4	71.2	99.5	50.3	Q
Warehouse and Storage	78	201	73	73	31	1,704	2,639	1,479	2,419	1,836	45.7	76.1	49.5	30.1	16.9
Other	Q	Q	Q	Q	Q	334	467	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	543	849	Q	569	318	Q	Q	Q	Q	Q
Year Constructed															
Before 1920	109	99	Q	Q	Q	1,227	1,413	731	290	Q	88.6	70.2	89.0	Q	Q
1920 to 1945	86	262	199	57	Q	1,089	2,266	1,985	1,239	405	79.3	115.5	100.2	45.7	Q
1946 to 1959	86	236	124	114	28	1,093	2,508	1,446	1,663	552	78.7	94.2	86.0	68.3	49.9
1960 to 1969	156	254	158	141	81	1,447	2,576	1,576	1,997	1,046	108.0	98.8	100.3	70.5	77.7
1970 to 1979	274	344	212	217	143	2,496	3,259	1,942	2,783	1,796	109.8	105.7	109.2	77.9	79.9
1980 to 1989	110	343	222	354	217	1,123	2,808	2,110	3,850	2,576	98.2	122.2	105.3	91.9	84.3
1990 to 1999	195	266	164	371	264	2,120	2,655	1,764	4,207	3,235	92.2	100.3	93.1	88.3	81.6
2000 to 2003	69	124	98	112	108	934	1,322	949	1,601	1,456	73.6	93.5	103.3	70.0	74.4
Census Region and Division															
Northeast	211	597	588	N	N	2,567	5,989	5,440	N	N	82.2	99.8	108.0	N	N
New England	62	282	N	N	N	Q	2,463	N	N	N	63.1	114.5	N	N	N
Middle Atlantic	Q	315	588	N	N	1,577	3,526	5,440	N	N	94.2	89.4	108.0	N	N
Midwest	573	1,112	114	N	N	5,910	10,584	1,609	N	N	97.0	105.1	70.5	N	N
East North Central	333	1,010	N	N	N	3,208	9,215	N	N	N	103.8	109.6	N	N	N
West North Central	240	102	114	N	N	2,702	Q	1,609	N	N	88.9	74.6	70.5	N	N
South	N	N	472	997	796	N	N	4,736	11,506	10,497	N	N	99.7	86.6	75.8
South Atlantic	N	N	311	635	296	N	N	3,065	7,126	3,807	N	N	101.4	89.0	77.7
East South Central	N	N	Q	Q	Q	N	N	Q	Q	Q	N	N	112.3	78.5	98.9
West South Central	N	N	Q	195	457	N	N	Q	2,255	6,258	N	N	Q	86.7	73.0
West	302	219	Q	389	84	3,052	2,234	718	6,125	692	99.0	98.2	96.4	63.5	121.0
Mountain	244	136	N	N	65	2,446	1,181	N	N	580	99.9	115.5	N	N	112.9
Pacific	Q	83	Q	389	Q	Q	Q	718	6,125	Q	95.1	78.8	96.4	63.5	Q

Table C10A. Consumption and Gross Energy Intensity by Climate Zone[a] for All Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)					Total Floorspace of Buildings (million square feet)					Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)				
	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	1,086	1,929	1,243	1,386	879	11,529	18,808	12,503	17,630	11,189	94.2	102.6	99.4	78.6	78.6
Number of Establishments															
One	696	1,333	777	896	465	7,138	12,514	7,713	11,616	6,163	97.6	106.5	100.7	77.1	75.5
2 to 5	252	321	196	276	117	2,527	3,217	2,021	3,008	1,792	99.8	99.6	96.8	91.6	65.4
6 to 10	57	117	60	51	93	584	867	530	586	791	97.8	135.0	113.5	86.7	117.6
11 to 20	Q	80	64	72	68	Q	747	793	694	723	Q	106.9	80.5	104.3	94.7
More than 20	Q	Q	Q	89	134	538	641	1,227	1,236	1,417	Q	Q	Q	72.4	94.7
Currently Unoccupied	Q	Q	Q	Q	Q	Q	821	Q	491	303	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)															
Electricity	1,086	1,929	1,243	1,386	879	11,300	18,549	12,374	17,064	10,894	96.1	104.0	100.4	81.2	80.7
Natural Gas	893	1,551	990	1,054	555	8,486	14,122	8,970	11,796	5,098	105.2	109.8	110.3	89.3	108.9
Fuel Oil	303	529	539	284	212	2,624	4,285	4,950	2,528	1,878	115.6	123.4	108.8	112.3	112.9
District Heat	Q	Q	228	Q	Q	825	1,917	1,349	1,025	460	Q	Q	168.7	Q	Q
Energy End Uses (more than one may apply)															
Buildings with Space Heating	1,081	1,917	1,236	1,330	806	10,996	18,181	12,238	15,705	9,325	98.3	105.5	101.0	84.7	86.4
Buildings with Cooling	1,001	1,717	1,210	1,348	873	9,438	15,947	11,906	15,798	10,472	106.1	107.7	101.7	85.3	83.4
Buildings with Water Heating	1,058	1,731	1,223	1,325	821	10,335	16,526	11,765	14,976	9,225	102.4	104.8	103.9	88.5	89.0

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.

a Climate zone (30-year average) definitions: Zone 1 = Under 2,000 CDD and more than 7,000 HDD; Zone 2 = Under 2,000 CDD and 5,500-7,000 HDD; Zone 3 = Under 2,000 CDD and 4,000-5,499 HDD; Zone 4 = Under 2,000 CDD and fewer than 4,000 HDD; Zone 5 = 2,000 CDD or more and fewer than 4,000 HDD. (See "Glossary" for definitions of CDD and HDD.)

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

N=No responding cases in sample.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C11A. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels for All Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	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	1,248	2,553	2,721	13,955	32,332	25,371	89.4	79.0	107.3
Principal Building Activity									
Education	63	423	334	808	5,378	3,687	78.3	78.6	90.7
Food Sales	144	Q	Q	765	467	Q	188.5	Q	Q
Food Service	318	108	Q	986	664	Q	322.9	163.2	Q
Health Care	32	104	457	445	835	1,883	71.8	125.1	242.9
Inpatient	N	Q	436	N	182	1,723	N	Q	252.9
Outpatient	32	66	Q	445	652	160	71.8	100.5	Q
Lodging	29	207	273	260	2,274	2,563	111.0	91.2	106.7
Mercantile	171	482	369	1,944	5,204	4,044	87.9	92.6	91.2
Retail (Other Than Mall)	110	137	72	1,363	2,133	821	80.9	64.1	87.8
Enclosed and Strip Malls	61	345	297	581	3,071	3,223	104.4	112.4	92.0
Office	171	412	551	2,320	4,602	5,286	73.5	89.5	104.2
Public Assembly	59	150	Q	854	1,851	1,233	69.5	80.8	Q
Public Order and Safety	22	Q	Q	231	390	Q	94.3	Q	Q
Religious Worship	54	100	Q	1,160	2,391	Q	46.5	41.8	Q
Service	120	144	Q	1,755	1,862	Q	68.4	77.2	Q
Warehouse and Storage	47	157	253	1,763	4,601	3,714	26.4	34.1	68.0
Other	Q	100	Q	215	601	922	Q	166.8	Q
Vacant	Q	Q	Q	447	1,211	909	Q	Q	Q
Year Constructed									
Before 1920	78	163	Q	998	1,981	805	77.7	82.3	Q
1920 to 1945	132	185	314	1,647	2,557	2,781	80.2	72.2	113.0
1946 to 1959	118	229	241	1,556	3,347	2,359	75.6	68.5	102.1
1960 to 1969	136	385	270	1,594	4,491	2,556	85.1	85.7	105.8
1970 to 1979	228	457	506	2,458	5,516	4,301	92.6	82.9	117.6
1980 to 1989	200	433	614	2,068	4,953	5,446	96.6	87.4	112.8
1990 to 1999	284	485	492	2,607	6,647	4,726	109.0	73.0	104.1
2000 to 2003	74	216	221	1,028	2,839	2,396	71.7	76.2	92.1
Census Region and Division									
Northeast	231	518	648	2,228	5,782	5,985	103.5	89.6	108.2
New England	76	158	111	752	1,630	1,071	100.9	96.9	103.4
Middle Atlantic	155	360	537	1,476	4,152	4,914	104.9	86.7	109.2
Midwest	335	744	719	3,584	8,405	6,115	93.5	88.6	117.6
East North Central	230	501	612	1,925	5,588	4,911	119.3	89.6	124.7
West North Central	105	244	107	1,659	2,816	1,204	63.5	86.5	88.8
South	452	857	956	5,462	12,392	8,885	82.7	69.2	107.6
South Atlantic	234	440	567	2,751	6,107	5,141	85.1	72.1	110.3
East South Central	63	178	99	967	2,155	597	65.7	82.6	165.0
West South Central	154	239	290	1,745	4,131	3,146	88.3	57.8	92.3
West	231	434	398	2,681	5,753	4,386	86.1	75.4	90.8
Mountain	84	196	167	931	1,993	1,282	89.8	98.2	130.1
Pacific	147	238	232	1,749	3,760	3,104	84.1	63.4	74.6
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	253	478	356	2,561	5,433	3,534	98.7	87.9	100.6
5,500-7,000 HDD	324	771	834	3,434	8,711	6,662	94.4	88.5	125.1
4,000-5,499 HDD	181	454	609	2,087	4,890	5,525	86.6	92.7	110.1
Fewer than 4,000 HDD	326	509	551	3,939	7,909	5,782	82.9	64.3	95.3
2,000 CDD or More and --									
Fewer than 4,000 HDD	164	342	373	1,933	5,388	3,868	84.9	63.6	96.4

Table C11A. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels for All Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/ square foot)		
	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	1,248	2,553	2,721	13,955	32,332	25,371	89.4	79.0	107.3
Number of Establishments									
One	1,035	1,657	1,474	10,917	21,123	13,104	94.8	78.5	112.5
2 to 5	188	487	487	2,411	6,221	3,934	77.8	78.2	123.8
6 to 10	Q	211	148	192	2,060	1,106	Q	102.2	133.7
11 to 20	Q	147	159	Q	1,548	1,819	Q	95.3	87.6
More than 20	Q	Q	431	Q	462	4,571	Q	Q	94.4
Currently Unoccupied	Q	Q	Q	405	918	838	Q	Q	Q
Energy Sources (more than one may apply)									
Electricity	1,248	2,553	2,721	13,124	31,858	25,200	95.1	80.1	108.0
Natural Gas	898	2,003	2,141	7,144	21,928	19,401	125.7	91.3	110.3
Fuel Oil	125	385	1,357	1,342	3,790	11,133	93.5	101.5	121.9
District Heat	Q	239	775	Q	1,232	4,244	Q	194.3	182.7
Energy End Uses (more than one may apply)									
Buildings with Space Heating	1,188	2,506	2,676	11,995	29,981	24,471	99.0	83.6	109.4
Buildings with Cooling	1,135	2,440	2,575	10,933	28,985	23,642	103.8	84.2	108.9
Buildings with Water Heating	1,146	2,453	2,559	10,566	28,569	23,692	108.5	85.9	108.0

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C12A. Consumption and Gross Energy Intensity by Year Constructed for Sum of Major Fuels for All Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	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	1,522	3,228	1,772	18,031	33,384	20,243	84.4	96.7	87.6
Building Floorspace (Square Feet)									
1,001 to 5,000	193	300	193	2,168	2,904	1,850	89.0	103.2	104.2
5,001 to 10,000	134	263	165	2,032	3,217	1,784	66.0	81.9	92.5
10,001 to 25,000	241	432	226	3,273	5,679	3,707	73.6	76.1	60.9
25,001 to 50,000	181	370	191	2,517	4,518	2,347	71.8	81.8	81.5
50,001 to 100,000	156	473	285	2,095	4,763	3,433	74.3	99.3	82.9
100,001 to 200,000	219	523	323	2,161	4,706	3,350	101.1	111.1	96.5
200,001 to 500,000	221	371	160	2,179	3,623	1,692	101.4	102.3	94.3
Over 500,000	179	497	Q	1,606	3,974	2,080	111.2	125.0	Q
Principal Building Activity									
Education	248	385	187	3,191	4,359	2,324	77.6	88.4	80.6
Food Sales	Q	116	Q	277	587	391	Q	197.0	Q
Food Service	89	152	187	613	524	517	144.4	290.1	361.2
Health Care	130	361	103	730	1,671	762	177.7	215.8	135.7
Inpatient	Q	311	Q	456	1,218	231	Q	255.3	Q
Outpatient	Q	50	45	273	453	531	Q	109.6	84.4
Lodging	109	286	114	1,236	2,564	1,296	Q	111.7	88.1
Mercantile	110	549	362	1,372	5,983	3,836	80.4	91.8	94.4
Retail (Other Than Mall)	76	115	128	1,026	1,804	1,487	73.9	63.5	86.4
Enclosed and Strip Malls	Q	434	234	346	4,179	2,350	Q	103.9	99.5
Office	267	641	226	2,852	6,792	2,563	93.6	94.4	88.0
Public Assembly	90	156	124	1,455	1,450	1,035	62.0	107.6	119.7
Public Order and Safety	Q	39	Q	Q	385	453	Q	101.3	Q
Religious Worship	71	53	39	1,522	1,328	904	46.6	39.9	43.3
Service	66	168	78	1,057	1,954	1,040	62.8	85.9	74.8
Warehouse and Storage	166	156	134	2,029	4,014	4,034	81.6	38.8	33.3
Other	Q	142	Q	372	693	673	Q	Q	Q
Vacant	Q	Q	Q	1,073	1,080	415	Q	Q	Q
Census Region and Division									
Northeast	539	622	235	6,140	5,448	2,407	87.8	114.1	97.8
New England	109	166	Q	1,475	1,339	638	74.0	123.7	Q
Middle Atlantic	430	456	166	4,665	4,109	1,769	92.1	111.0	93.7
Midwest	558	829	412	5,744	8,197	4,162	97.2	101.1	98.9
East North Central	435	616	292	4,121	5,690	2,613	105.5	108.3	111.8
West North Central	123	213	120	1,623	2,507	1,550	76.0	84.8	77.3
South	265	1,157	843	3,764	12,934	10,041	70.5	89.4	83.9
South Atlantic	157	567	517	2,120	6,185	5,694	74.1	91.7	90.8
East South Central	42	204	94	605	1,917	1,196	69.8	106.5	78.2
West South Central	66	385	232	1,038	4,832	3,151	63.7	79.8	73.6
West	160	621	282	2,383	6,805	3,632	67.0	91.3	77.7
Mountain	51	295	100	526	2,494	1,187	97.1	118.2	84.5
Pacific	109	326	182	1,857	4,311	2,445	58.5	75.7	74.5
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	281	541	264	3,409	5,066	3,054	82.5	106.7	86.5
5,500-7,000 HDD	597	942	390	6,188	8,643	3,977	96.5	109.0	98.0
4,000-5,499 HDD	388	592	262	4,162	5,628	2,714	93.3	105.2	96.7
Fewer than 4,000 HDD	191	712	484	3,192	8,630	5,808	59.7	82.4	83.2
2,000 CDD or More and --									
Fewer than 4,000 HDD	65	442	372	1,080	5,418	4,691	60.3	81.5	79.4

Table C12A. Consumption and Gross Energy Intensity by Year Constructed for Sum of Major Fuels for All Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	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	1,522	3,228	1,772	18,031	33,384	20,243	84.4	96.7	87.6
Number of Establishments									
One	1,095	1,929	1,143	12,247	19,473	13,424	89.4	99.0	85.2
2 to 5	253	608	300	3,085	6,096	3,384	81.9	99.8	88.7
6 to 10	45	206	127	511	1,879	968	88.3	109.5	131.5
11 to 20	Q	189	84	635	1,819	915	Q	103.8	91.3
More than 20	Q	279	Q	648	3,239	1,174	Q	86.2	Q
Currently Unoccupied	Q	Q	Q	905	879	Q	Q	Q	Q
Energy Sources (more than one may apply)									
Electricity	1,522	3,228	1,772	17,509	32,945	19,727	86.9	98.0	89.8
Natural Gas	1,115	2,514	1,413	12,407	22,762	13,304	89.8	110.4	106.2
Fuel Oil	491	969	407	5,089	7,573	3,603	96.4	127.9	113.0
District Heat	354	490	Q	2,206	2,330	1,041	160.6	210.4	Q
Energy End Uses (more than one may apply)									
Buildings with Space Heating	1,498	3,154	1,718	16,783	31,413	18,251	89.3	100.4	94.1
Buildings with Cooling	1,263	3,139	1,748	14,196	30,929	18,436	88.9	101.5	94.8
Buildings with Water Heating	1,322	3,114	1,722	14,878	30,250	17,699	88.8	103.0	97.3

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C13A. Total Electricity Consumption and Expenditures for All Buildings, 2003

	All Buildings Using Electricity			Electricity Consumption			Electricity Expenditures
				Primary	Site		
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	Total (million dollars)
All Buildings	4,617	70,181	15.2	10,746	3,559	1,043	82,783
Building Floorspace (Square Feet)							
1,001 to 5,000	2,418	6,479	2.7	1,185	392	115	10,547
5,001 to 10,000	893	6,645	7.4	883	293	86	8,199
10,001 to 25,000	799	12,495	15.6	1,464	485	142	12,172
25,001 to 50,000	254	9,098	35.9	1,199	397	116	9,179
50,001 to 100,000	146	10,265	70.3	1,579	523	153	11,694
100,001 to 200,000	73	10,171	138.7	1,771	587	172	11,962
200,001 to 500,000	26	7,370	288.4	1,152	381	112	7,862
Over 500,000	8	7,660	937.6	1,513	501	147	11,167
Principal Building Activity							
Education	384	9,871	25.7	1,121	371	109	8,111
Food Sales	221	1,237	5.6	629	208	61	4,627
Food Service	297	1,654	5.6	654	217	63	5,176
Health Care	129	3,163	24.6	748	248	73	4,882
Inpatient	8	1,905	241.4	539	178	52	3,198
Outpatient	121	1,258	10.4	209	69	20	1,684
Lodging	142	5,096	35.8	709	235	69	5,288
Mercantile	657	11,192	17.0	2,214	733	215	18,883
Retail (Other Than Mall)	443	4,317	9.7	637	211	62	5,132
Enclosed and Strip Malls	213	6,875	32.2	1,578	523	153	13,751
Office	824	12,208	14.8	2,170	719	211	17,050
Public Assembly	274	3,935	14.4	506	167	49	3,943
Public Order and Safety	71	1,090	15.5	172	57	17	1,216
Religious Worship	370	3,754	10.1	188	62	18	1,628
Service	601	3,982	6.6	451	149	44	3,485
Warehouse and Storage	464	9,425	20.3	738	244	72	5,034
Other	76	1,729	22.7	401	133	39	3,049
Vacant	106	1,846	17.3	46	15	4	412
Year Constructed							
Before 1920	321	3,746	11.7	274	91	27	2,338
1920 to 1945	508	6,709	13.2	649	215	63	5,364
1946 to 1959	552	7,055	12.8	744	247	72	6,184
1960 to 1969	592	8,597	14.5	1,085	359	105	8,626
1970 to 1979	754	12,058	16.0	2,079	689	202	15,679
1980 to 1989	730	12,290	16.8	2,382	789	231	18,258
1990 to 1999	850	13,699	16.1	2,484	823	241	18,560
2000 to 2003	311	6,028	19.4	1,048	347	102	7,773
Census Region and Division							
Northeast	745	13,899	18.7	1,772	587	172	16,907
New England	247	3,430	13.9	426	141	41	4,157
Middle Atlantic	498	10,469	21.0	1,347	446	131	12,750
Midwest	1,228	17,725	14.4	2,414	799	234	15,677
East North Central	691	12,202	17.7	1,733	574	168	11,503
West North Central	537	5,523	10.3	681	225	66	4,174
South	1,752	26,017	14.8	4,654	1,542	452	31,849
South Atlantic	887	13,837	15.6	2,612	865	254	17,693
East South Central	325	3,546	10.9	591	196	57	3,881
West South Central	540	8,634	16.0	1,451	481	141	10,275
West	892	12,541	14.1	1,905	631	185	18,350
Mountain	303	4,165	13.7	700	232	68	5,205
Pacific	589	8,376	14.2	1,205	399	117	13,145

Table C13A. Total Electricity Consumption and Expenditures for All Buildings, 2003

	All Buildings Using Electricity			Electricity Consumption			Electricity Expenditures
				Primary	Site		
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	Total (million dollars)
All Buildings	4,617	70,181	15.2	10,746	3,559	1,043	82,783
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	836	11,300	13.5	1,412	468	137	10,479
5,500-7,000 HDD	1,185	18,549	15.7	2,621	868	254	19,181
4,000-5,499 HDD	670	12,374	18.5	1,947	645	189	15,439
Fewer than 4,000 HDD	1,253	17,064	13.6	2,686	890	261	22,055
2,000 CDD or More and --							
Fewer than 4,000 HDD	674	10,894	16.2	2,081	689	202	15,629
Number of Establishments							
One	3,591	44,379	12.4	6,454	2,138	627	48,376
2 to 5	754	12,526	16.6	1,859	616	180	14,425
6 to 10	117	3,358	28.6	692	229	67	5,587
11 to 20	47	3,369	71.8	656	217	64	5,449
More than 20	22	5,060	227.3	1,056	350	103	8,688
Currently Unoccupied	85	1,489	17.5	28	9	3	258
Energy Sources (more than one may apply)							
Electricity	4,617	70,181	15.2	10,746	3,559	1,043	82,783
Natural Gas	2,536	48,466	19.1	7,651	2,534	743	58,107
Fuel Oil	463	16,250	35.1	2,830	937	275	20,791
District Heat	67	5,576	83.1	1,040	344	101	6,782
Energy End Uses (more than one may apply)							
Buildings with Space Heating	4,171	66,410	15.9	10,365	3,433	1,006	78,955
Buildings with Cooling	3,823	63,545	16.6	10,402	3,445	1,010	80,010
Buildings with Water Heating	3,657	62,812	17.2	10,202	3,379	990	78,235
Annual Consumption (kilowatthours)							
10,000 or Less	757	2,861	3.8	39	13	4	476
10,001 to 50,000	1,711	9,270	5.4	467	155	45	4,704
50,001 to 100,000	748	6,725	9.0	564	187	55	5,378
100,001 to 500,000	1,061	17,622	16.6	2,453	812	238	20,817
500,001 to 1,000,000	162	7,360	45.5	1,134	376	110	9,067
1,000,001 to 5,000,000	155	15,602	100.4	3,431	1,137	333	23,945
Over 5,000,000	22	10,742	494.1	2,657	880	258	18,396

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use electricity.

Notes: ● Site electricity is the amount of electricity delivered to commercial buildings. Primary electricity, which is not included in the "Total of Major Fuels" category, is site electricity plus the conversion losses in the generation, transmission, and distribution processes. ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C14A. Electricity Consumption and Expenditure Intensities for All Buildings, 2003

	Electricity Consumption					Electricity Expenditures		
			Distribution of Building-Level Intensities (kWh/square foot)					
	per Building (thousand kWh)	per Square Foot (kWh)	25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
All Buildings	226	14.9	3.8	8.8	18.1	17.9	1.18	0.079
Building Floorspace (Square Feet)								
1,001 to 5,000	48	17.8	3.8	9.0	20.0	4.4	1.63	0.092
5,001 to 10,000	96	12.9	4.0	8.2	15.5	9.2	1.23	0.096
10,001 to 25,000	178	11.4	3.1	7.2	15.0	15.2	0.97	0.086
25,001 to 50,000	459	12.8	4.4	9.6	16.9	36.2	1.01	0.079
50,001 to 100,000	1,049	14.9	5.2	11.4	20.7	80.1	1.14	0.076
100,001 to 200,000	2,344	16.9	6.1	15.8	24.3	163.1	1.18	0.070
200,001 to 500,000	4,374	15.2	6.1	13.2	20.6	307.6	1.07	0.070
Over 500,000	17,978	19.2	11.5	18.0	23.4	1366.9	1.46	0.076
Principal Building Activity								
Education	283	11.0	4.9	8.9	13.6	21.1	0.82	0.075
Food Sales	276	49.4	33.4	48.0	77.0	20.9	3.74	0.076
Food Service	213	38.4	18.8	37.4	70.3	17.4	3.13	0.082
Health Care	564	22.9	6.1	12.0	18.4	37.9	1.54	0.067
Inpatient	6,628	27.5	21.8	24.0	35.6	405.3	1.68	0.061
Outpatient	168	16.1	5.8	11.3	16.5	13.9	1.34	0.083
Lodging	483	13.5	6.7	11.9	17.7	37.1	1.04	0.077
Mercantile	327	19.2	6.1	12.7	21.9	28.8	1.69	0.088
Retail (Other Than Mall)	139	14.3	4.3	9.4	18.4	11.6	1.19	0.083
Enclosed and Strip Malls	718	22.3	12.7	18.0	25.4	64.4	2.00	0.090
Office	256	17.3	6.5	11.5	17.6	20.7	1.40	0.081
Public Assembly	179	12.5	2.2	5.1	11.3	14.4	1.00	0.080
Public Order and Safety	237	15.3	4.0	7.9	17.6	17.2	1.12	0.073
Religious Worship	49	4.9	1.9	3.5	6.0	4.4	0.43	0.089
Service	73	11.0	3.0	6.3	11.8	5.8	0.88	0.080
Warehouse and Storage	154	7.6	1.4	3.1	6.2	10.8	0.53	0.070
Other	510	22.5	3.5	7.2	20.3	40.0	1.76	0.078
Vacant	42	2.4	0.4	1.7	3.8	3.9	0.22	0.092
Year Constructed								
Before 1920	83	7.1	1.7	3.9	9.6	7.3	0.62	0.088
1920 to 1945	124	9.4	3.3	7.1	14.1	10.6	0.80	0.085
1946 to 1959	131	10.2	3.1	6.6	14.6	11.2	0.88	0.086
1960 to 1969	178	12.3	3.5	7.9	15.3	14.6	1.00	0.082
1970 to 1979	268	16.7	4.7	10.2	21.7	20.8	1.30	0.078
1980 to 1989	317	18.8	5.1	11.2	21.6	25.0	1.49	0.079
1990 to 1999	284	17.6	5.1	11.1	24.0	21.8	1.35	0.077
2000 to 2003	327	16.9	3.2	8.5	18.4	25.0	1.29	0.076
Census Region and Division								
Northeast	231	12.4	2.5	6.6	15.4	22.7	1.22	0.098
New England	167	12.0	1.8	5.4	14.0	16.8	1.21	0.101
Middle Atlantic	262	12.5	3.0	7.5	17.6	25.6	1.22	0.098
Midwest	191	13.2	3.6	8.1	16.2	12.8	0.88	0.067
East North Central	244	13.8	4.3	8.7	19.2	16.7	0.94	0.068
West North Central	123	12.0	3.0	7.2	13.6	7.8	0.76	0.063
South	258	17.4	4.2	10.0	20.3	18.2	1.22	0.070
South Atlantic	286	18.3	4.4	10.6	20.6	19.9	1.28	0.070
East South Central	177	16.2	3.8	8.9	20.0	11.9	1.09	0.068
West South Central	261	16.3	4.1	10.0	21.3	19.0	1.19	0.073
West	207	14.7	4.1	9.5	16.4	20.6	1.46	0.099
Mountain	224	16.3	4.3	9.2	15.9	17.2	1.25	0.077
Pacific	199	14.0	3.9	9.7	16.7	22.3	1.57	0.112

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Table C14A. Electricity Consumption and Expenditure Intensities for All Buildings, 2003

	Electricity Consumption					Electricity Expenditures		
			Distribution of Building-Level Intensities (kWh/square foot)					
	per Building (thousand kWh)	per Square Foot (kWh)	25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
All Buildings	226	14.9	3.8	8.8	18.1	17.9	1.18	0.079
Climate Zone: 30-Year Average								
Under 2,000 CDD and --								
More than 7,000 HDD	164	12.1	2.9	7.6	15.7	12.5	0.93	0.076
5,500-7,000 HDD	215	13.7	3.4	7.9	15.8	16.2	1.03	0.075
4,000-5,499 HDD	282	15.3	4.1	9.3	18.5	23.1	1.25	0.082
Fewer than 4,000 HDD	208	15.3	3.9	8.8	17.1	17.6	1.29	0.085
2,000 CDD or More and --								
Fewer than 4,000 HDD	300	18.5	5.3	13.0	24.0	23.2	1.43	0.077
Number of Establishments								
One	174	14.1	3.7	8.3	18.2	13.5	1.09	0.077
2 to 5	239	14.4	4.5	10.1	16.7	19.1	1.15	0.080
6 to 10	573	20.0	10.1	16.4	23.8	47.6	1.66	0.083
11 to 20	1,358	18.9	14.2	18.5	24.6	116.1	1.62	0.086
More than 20	4,605	20.3	7.0	17.4	23.4	390.3	1.72	0.085
Currently Unoccupied	32	1.8	0.4	1.5	3.4	3.0	0.17	0.096
Energy Sources (more than one may apply)								
Electricity	226	14.9	3.8	8.8	18.1	17.9	1.18	0.079
Natural Gas	293	15.3	4.5	9.5	19.1	22.9	1.20	0.078
Fuel Oil	593	16.9	2.3	5.8	15.2	44.9	1.28	0.076
District Heat	1,504	18.1	6.4	12.6	20.7	101.1	1.22	0.067
Energy End Uses (more than one may apply)								
Buildings with Space Heating	241	15.2	4.3	9.2	18.5	18.9	1.19	0.078
Buildings with Cooling	264	15.9	5.1	10.5	20.0	20.9	1.26	0.079
Buildings with Water Heating	271	15.8	4.8	10.2	19.9	21.4	1.25	0.079
Annual Consumption (kilowatthours)								
10,000 or Less	5	1.3	1.0	1.9	3.2	0.6	0.17	0.124
10,001 to 50,000	26	4.9	3.8	6.9	11.7	2.7	0.51	0.104
50,001 to 100,000	73	8.1	6.6	11.6	21.8	7.2	0.80	0.098
100,001 to 500,000	224	13.5	10.7	18.9	36.5	19.6	1.18	0.087
500,001 to 1,000,000	680	15.0	12.5	17.7	30.0	56.0	1.23	0.082
1,000,001 to 5,000,000	2,144	21.4	16.6	24.0	36.1	154.1	1.53	0.072
Over 5,000,000	11,864	24.0	19.8	27.3	35.7	846.2	1.71	0.071

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use electricity.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C15A. Electricity Consumption and Conditional Energy Intensity by Census Region for All Buildings, 2003

	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	172	234	452	185	13,899	17,725	26,017	12,541	12.4	13.2	17.4	14.7
Building Floorspace (Square Feet)												
1,001 to 5,000	14	30	52	19	1,031	1,742	2,410	1,296	13.5	17.4	21.5	14.6
5,001 to 10,000	11	17	37	21	1,128	1,558	2,640	1,319	9.8	10.8	14.0	15.8
10,001 to 25,000	22	33	59	28	2,094	3,317	4,746	2,338	10.4	10.0	12.5	12.1
25,001 to 50,000	14	33	48	21	1,388	2,628	3,318	1,764	9.8	12.6	14.6	12.1
50,001 to 100,000	29	32	68	24	2,272	2,376	4,059	1,558	12.6	13.5	16.8	15.7
100,001 to 200,000	28	37	84	22	2,238	2,475	4,105	1,353	12.4	15.1	20.5	16.6
200,001 to 500,000	24	29	42	17	1,781	2,288	2,104	1,196	13.3	12.9	20.0	14.0
Over 500,000	32	22	61	32	1,967	1,341	2,635	1,717	16.1	16.4	23.2	18.7
Principal Building Activity												
Education	13	20	58	17	1,683	2,539	3,983	1,667	7.8	8.1	14.6	10.2
Food Sales	Q	16	24	Q	Q	305	484	Q	Q	52.5	50.5	Q
Food Service	Q	14	37	8	Q	453	764	265	Q	29.9	48.3	31.9
Health Care	10	18	31	12	535	798	1,277	553	19.4	23.2	24.5	22.5
Inpatient	8	12	26	7	358	438	838	270	23.2	26.4	30.5	25.3
Outpatient	Q	7	6	6	Q	359	438	283	Q	19.2	13.0	19.8
Lodging	9	15	29	16	1,171	1,144	1,694	1,087	Q	13.0	17.2	14.7
Mercantile	30	31	107	47	1,720	1,904	5,094	2,473	17.6	16.2	21.0	19.0
Retail (Other Than Mall)	6	12	29	14	630	880	1,844	963	8.8	14.2	16.0	14.8
Enclosed and Strip Malls	25	18	77	33	1,090	1,024	3,251	1,511	22.6	18.0	23.8	21.7
Office	50	53	71	36	3,012	2,989	3,782	2,425	16.5	17.9	18.8	15.0
Public Assembly	6	11	21	11	1,048	1,012	1,174	701	Q	10.7	17.8	16.0
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	2	5	10	2	627	1,115	1,498	515	2.8	4.1	6.7	3.6
Service	5	14	18	7	731	1,259	1,335	657	6.9	10.8	13.2	11.4
Warehouse and Storage	9	27	25	11	1,467	2,849	3,623	1,486	5.9	9.6	6.9	7.3
Other	15	5	Q	Q	649	306	Q	Q	23.3	16.7	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed												
Before 1920	11	8	6	Q	1,395	1,535	522	Q	7.7	5.4	10.7	Q
1920 to 1945	19	23	12	9	2,546	1,954	1,266	942	7.4	11.8	9.7	9.4
1946 to 1959	18	18	24	12	2,139	2,071	1,823	1,022	8.4	8.9	13.0	12.1
1960 to 1969	24	25	37	19	1,858	2,428	2,655	1,656	13.0	10.5	13.9	11.3
1970 to 1979	31	53	78	39	1,916	3,543	4,198	2,401	16.4	15.0	18.6	16.3
1980 to 1989	31	39	116	46	1,675	2,187	5,702	2,726	18.4	17.8	20.3	16.8
1990 to 1999	23	47	128	42	1,530	2,781	7,067	2,322	15.0	17.0	18.2	18.3
2000 to 2003	16	19	51	16	841	1,227	2,783	1,177	18.4	15.8	18.4	13.3
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	26	68	N	43	2,515	5,783	N	3,002	10.3	11.8	N	14.3
5,500-7,000 HDD	73	147	N	35	5,958	10,372	N	2,219	12.2	14.1	N	15.8
4,000-5,499 HDD	73	20	86	10	5,425	1,570	4,661	718	13.5	12.5	18.4	14.5
Fewer than 4,000 HDD	N	N	183	78	N	N	11,153	5,911	N	N	16.4	13.1
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	183	19	N	N	10,203	692	N	N	17.9	27.4

Table C15A. Electricity Consumption and Conditional Energy Intensity by Census Region for All Buildings, 2003

	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	172	234	452	185	13,899	17,725	26,017	12,541	12.4	13.2	17.4	14.7
Number of Establishments												
One	92	162	265	108	7,996	12,134	16,569	7,679	11.4	13.4	16.0	14.1
2 to 5	35	41	74	30	2,802	3,116	4,468	2,140	12.4	13.2	16.6	14.2
6 to 10	14	11	31	11	792	730	1,212	624	17.7	15.0	25.6	18.1
11 to 20	10	11	32	11	884	552	1,342	591	11.2	19.7	23.7	18.7
More than 20	21	Q	49	24	1,118	Q	2,094	1,396	18.9	Q	23.5	17.2
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)												
Electricity	172	234	452	185	13,899	17,725	26,017	12,541	12.4	13.2	17.4	14.7
Natural Gas	136	189	286	131	10,162	14,143	15,254	8,907	13.4	13.4	18.8	14.7
Fuel Oil	79	52	98	46	6,464	2,894	4,663	2,230	12.2	17.9	21.0	20.6
District Heat	25	28	38	10	1,496	1,648	1,766	667	16.8	17.2	21.3	14.8
Energy End Uses (more than one may apply)												
Buildings with Space Heating	171	233	432	171	13,675	17,327	23,991	11,417	12.5	13.4	18.0	15.0
Buildings with Cooling	165	220	448	177	12,016	15,459	24,723	11,347	13.7	14.2	18.1	15.6
Buildings with Water Heating	168	217	429	176	12,875	15,850	22,859	11,227	13.0	13.7	18.8	15.7
Annual Consumption (kilowatthours)												
10,000 or Less	1	1	1	1	752	929	729	451	1.1	1.1	1.7	1.8
10,001 to 50,000	7	13	17	9	1,811	2,288	3,405	1,767	3.6	5.5	5.0	5.1
50,001 to 100,000	10	12	23	10	1,575	1,555	2,571	1,025	6.2	7.8	8.9	9.8
100,001 to 500,000	30	64	95	49	3,118	5,105	5,976	3,423	9.7	12.5	15.9	14.4
500,001 to 1,000,000	16	23	55	16	1,435	1,874	3,064	987	11.2	12.3	17.8	16.6
1,000,001 to 5,000,000	53	77	149	54	2,827	3,897	6,043	2,835	18.8	19.7	24.6	19.2
Over 5,000,000	56	45	112	45	2,381	2,078	4,229	2,054	23.3	21.5	26.6	22.0

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use electricity.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C16A. Electricity Expenditures by Census Region for All Buildings, 2003

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars) per kWh				Electricity Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	16,907	15,677	31,849	18,350	0.10	0.07	0.07	0.10	1.22	0.88	1.22	1.46
Building Floorspace (Square Feet)												
1,001 to 5,000	1,685	2,415	4,257	2,190	0.12	0.08	0.08	0.12	1.63	1.39	1.77	1.69
5,001 to 10,000	1,364	1,347	3,064	2,424	0.12	0.08	0.08	0.12	1.21	0.86	1.16	1.84
10,001 to 25,000	2,126	2,539	4,651	2,856	0.10	0.08	0.08	0.10	1.02	0.77	0.98	1.22
25,001 to 50,000	1,414	2,202	3,480	2,084	0.10	0.07	0.07	0.10	1.02	0.84	1.05	1.18
50,001 to 100,000	2,744	1,996	4,585	2,368	0.10	0.06	0.07	0.10	1.21	0.84	1.13	1.52
100,001 to 200,000	2,640	2,261	5,238	1,823	0.10	0.06	0.06	0.08	1.18	0.91	1.28	1.35
200,001 to 500,000	1,985	1,631	2,655	1,592	0.08	0.06	0.06	0.10	1.11	0.71	1.26	1.33
Over 500,000	2,950	1,286	3,919	3,013	0.09	0.06	0.06	0.09	1.50	0.96	1.49	1.75
Principal Building Activity												
Education	1,273	1,388	3,940	1,510	0.10	0.07	0.07	0.09	0.76	0.55	0.99	0.91
Food Sales	Q	1,069	1,741	Q	Q	0.07	0.07	Q	Q	3.51	3.60	Q
Food Service	Q	1,017	2,637	976	Q	0.08	0.07	0.12	Q	2.24	3.45	3.69
Health Care	871	1,057	1,822	1,131	0.08	0.06	0.06	0.09	1.63	1.32	1.43	2.04
Inpatient	631	606	1,387	574	0.08	0.05	0.05	0.08	1.76	1.38	1.65	2.12
Outpatient	Q	451	436	558	Q	0.07	0.08	0.10	Q	1.25	0.99	1.97
Lodging	882	953	1,910	1,543	0.10	0.06	0.07	0.10	Q	0.83	1.13	1.42
Mercantile	3,294	2,382	8,507	4,700	0.11	0.08	0.08	0.10	1.92	1.25	1.67	1.90
Retail (Other Than Mall)	650	877	2,198	1,408	0.12	0.07	0.07	0.10	1.03	1.00	1.19	1.46
Enclosed and Strip Malls	2,645	1,505	6,309	3,292	0.11	0.08	0.08	0.10	2.43	1.47	1.94	2.18
Office	4,890	3,556	4,788	3,816	0.10	0.07	0.07	0.10	1.62	1.19	1.27	1.57
Public Assembly	628	731	1,370	Q	0.10	0.07	0.07	0.11	Q	0.72	1.17	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	183	369	869	207	0.11	0.08	0.09	0.11	0.29	0.33	0.58	0.40
Service	580	961	1,266	679	0.11	0.07	Q	0.09	0.79	0.76	0.95	1.03
Warehouse and Storage	763	1,522	1,736	1,013	0.09	0.06	0.07	0.09	0.52	0.53	0.48	0.68
Other	1,333	330	Q	Q	0.09	0.06	Q	Q	2.05	1.08	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed												
Before 1920	998	669	429	Q	0.09	0.08	0.08	Q	0.72	0.44	0.82	Q
1920 to 1945	1,982	1,403	940	1,039	0.11	0.06	0.08	0.12	0.78	0.72	0.74	1.10
1946 to 1959	1,898	1,335	1,707	1,244	0.11	0.07	0.07	0.10	0.89	0.64	0.94	1.22
1960 to 1969	2,311	1,739	2,679	1,896	0.10	0.07	0.07	0.10	1.24	0.72	1.01	1.15
1970 to 1979	3,093	3,488	5,491	3,608	0.10	0.07	0.07	0.09	1.61	0.98	1.31	1.50
1980 to 1989	3,035	2,712	7,961	4,551	0.10	0.07	0.07	0.10	1.81	1.24	1.40	1.67
1990 to 1999	2,207	3,094	8,913	4,347	0.10	0.07	0.07	0.10	1.44	1.11	1.26	1.87
2000 to 2003	1,384	1,237	3,729	1,423	0.09	0.06	0.07	0.09	1.65	1.01	1.34	1.21
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	2,810	4,581	N	3,088	0.11	0.07	N	0.07	1.12	0.79	N	1.03
5,500-7,000 HDD	6,833	9,892	N	2,456	0.09	0.07	N	0.07	1.15	0.95	N	1.11
4,000-5,499 HDD	7,264	1,204	5,957	Q	0.10	0.06	0.07	0.10	1.34	0.77	1.28	1.41
Fewer than 4,000 HDD	N	N	11,927	10,128	N	N	0.07	0.13	N	N	1.07	1.71
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	13,965	1,664	N	N	0.08	0.09	N	N	1.37	2.41
Number of Establishments												
One	8,786	10,689	18,435	10,467	0.10	0.07	0.07	0.10	1.10	0.88	1.11	1.36
2 to 5	3,412	2,763	5,046	3,204	0.10	0.07	0.07	0.11	1.22	0.89	1.13	1.50
6 to 10	1,414	769	2,370	1,034	0.10	0.07	0.08	0.09	1.79	1.05	1.96	1.66
11 to 20	1,011	799	2,371	1,268	0.10	0.07	0.07	0.11	1.14	1.45	1.77	2.14
More than 20	2,203	Q	3,577	2,337	0.10	Q	0.07	0.10	1.97	Q	1.71	1.67
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

Table C16A. Electricity Expenditures by Census Region for All Buildings, 2003

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars) per kWh				Electricity Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	16,907	15,677	31,849	18,350	0.10	0.07	0.07	0.10	1.22	0.88	1.22	1.46
Energy Sources (more than one may apply)												
Electricity	16,907	15,677	31,849	18,350	0.10	0.07	0.07	0.10	1.22	0.88	1.22	1.46
Natural Gas	13,187	12,883	19,412	12,625	0.10	0.07	0.07	0.10	1.30	0.91	1.27	1.42
Fuel Oil	7,475	2,985	6,263	4,068	0.09	0.06	0.06	0.09	1.16	1.03	1.34	1.82
District Heat	2,394	1,400	2,141	847	0.10	0.05	0.06	0.09	1.60	0.85	1.21	1.27
Energy End Uses (more than one may apply)												
Buildings with Space Heating	16,774	15,534	30,193	16,454	0.10	0.07	0.07	0.10	1.23	0.90	1.26	1.44
Buildings with Cooling	16,092	14,902	31,498	17,519	0.10	0.07	0.07	0.10	1.34	0.96	1.27	1.54
Buildings with Water Heating	16,428	14,707	29,773	17,326	0.10	0.07	0.07	0.10	1.28	0.93	1.30	1.54
Annual Consumption (kilowatthours)												
10,000 or Less	111	109	144	113	0.14	0.11	0.12	0.14	0.15	0.12	0.20	0.25
10,001 to 50,000	885	1,120	1,630	1,068	0.13	0.09	0.09	0.12	0.49	0.49	0.48	0.60
50,001 to 100,000	1,194	970	2,015	1,199	0.12	0.08	0.09	0.12	0.76	0.62	0.78	1.17
100,001 to 500,000	3,450	4,914	7,474	4,980	0.11	0.08	0.08	0.10	1.11	0.96	1.25	1.45
500,001 to 1,000,000	1,608	1,574	4,050	1,835	0.10	0.07	0.07	0.11	1.12	0.84	1.32	1.86
1,000,001 to 5,000,000	4,757	4,579	9,624	4,984	0.09	0.06	0.06	0.09	1.68	1.18	1.59	1.76
Over 5,000,000	4,902	2,411	6,912	4,172	0.09	0.05	0.06	0.09	2.06	1.16	1.63	2.03

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use electricity.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C17A. Electricity Consumption and Conditional Energy Intensity by Census Division for All Buildings, 2003: Part 1

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings	41	131	168	3,430	10,469	12,202	12.0	12.5	13.8
Building Floorspace (Square Feet)									
1,001 to 5,000	5	9	20	369	662	921	12.9	13.9	21.9
5,001 to 10,000	3	8	9	360	768	877	8.4	10.4	10.8
10,001 to 25,000	Q	16	24	674	1,420	2,113	Q	11.6	11.2
25,001 to 50,000	Q	10	18	Q	1,022	1,680	Q	9.5	10.6
50,001 to 100,000	Q	20	23	Q	1,682	1,712	Q	11.8	13.6
100,001 to 200,000	Q	20	30	448	1,790	1,861	18.1	11.0	16.1
200,001 to 500,000	Q	22	24	Q	1,673	1,847	Q	13.1	13.2
Over 500,000	Q	26	19	Q	1,451	1,192	Q	17.9	16.3
Principal Building Activity									
Education	Q	12	16	Q	1,384	1,990	Q	8.4	7.9
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	Q	Q	10	Q	Q	248	Q	Q	38.5
Health Care	Q	9	13	Q	464	551	Q	20.2	24.2
Inpatient	Q	8	9	Q	310	316	Q	24.8	27.9
Outpatient	Q	Q	Q	Q	Q	Q	Q	Q	Q
Lodging	Q	Q	8	Q	Q	548	Q	Q	14.7
Mercantile	11	20	21	699	1,021	1,373	15.2	19.2	15.6
Retail (Other Than Mall)	Q	5	7	Q	419	544	Q	10.9	12.3
Enclosed and Strip Malls	Q	Q	15	Q	Q	829	Q	Q	17.9
Office	9	40	42	578	2,434	2,190	16.3	16.6	18.9
Public Assembly	Q	5	8	Q	769	635	Q	Q	12.3
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	Q	1	3	Q	474	720	Q	3.2	4.3
Service	Q	5	9	Q	620	775	Q	7.5	12.0
Warehouse and Storage	Q	8	21	Q	1,070	1,931	Q	7.4	10.8
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	3	8	6	450	945	994	6.1	Q	5.8
1920 to 1945	4	14	Q	660	1,886	1,494	6.5	7.7	12.5
1946 to 1959	Q	16	14	Q	1,774	1,509	Q	9.0	9.4
1960 to 1969	Q	17	17	Q	1,451	1,568	16.9	11.9	10.7
1970 to 1979	6	25	37	493	1,423	2,425	13.1	17.5	15.3
1980 to 1989	8	23	30	440	1,235	1,669	18.6	18.3	18.2
1990 to 1999	Q	19	32	Q	1,301	1,719	Q	14.4	18.5
2000 to 2003	Q	Q	14	Q	Q	824	Q	Q	16.7
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	7	Q	35	Q	1,549	3,167	7.4	12.1	11.0
5,500-7,000 HDD	34	39	133	2,463	3,495	9,036	13.9	11.1	14.8
4,000-5,499 HDD	N	73	N	N	5,425	N	N	13.5	N
Fewer than 4,000 HDD	N	N	N	N	N	N	N	N	N
2,000 CDD or More and --									
Fewer than 4,000 HDD	N	N	N	N	N	N	N	N	N

Table C17A. Electricity Consumption and Conditional Energy Intensity by Census Division for All Buildings, 2003: Part 1

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings	41	131	168	3,430	10,469	12,202	12.0	12.5	13.8
Number of Establishments									
One	20	72	117	1,761	6,235	8,199	11.1	11.5	14.3
2 to 5	8	26	28	756	2,046	2,096	11.1	12.9	13.4
6 to 10	Q	9	7	Q	548	459	Q	16.3	15.5
11 to 20	Q	Q	10	Q	Q	501	Q	Q	19.9
More than 20	Q	16	Q	Q	849	Q	Q	19.2	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)									
Electricity	41	131	168	3,430	10,469	12,202	12.0	12.5	13.8
Natural Gas	29	108	139	1,861	8,301	10,355	15.3	13.0	13.5
Fuel Oil	19	60	36	1,781	4,682	1,856	10.9	12.7	19.4
District Heat	Q	17	25	Q	1,082	1,420	Q	15.7	17.7
Energy End Uses (more than one may apply)									
Buildings with Space Heating	41	130	167	3,307	10,368	12,026	12.4	12.5	13.9
Buildings with Cooling	38	127	156	2,492	9,523	10,570	15.1	13.4	14.7
Buildings with Water Heating	40	128	155	3,209	9,666	10,936	12.6	13.2	14.1
Annual Consumption (kilowatthours)									
10,000 or Less	Q	0	0	Q	Q	Q	Q	1.1	0.9
10,001 to 50,000	2	4	7	645	1,166	1,284	3.3	3.8	5.2
50,001 to 100,000	Q	7	7	Q	1,329	959	Q	5.4	7.2
100,001 to 500,000	9	21	44	735	2,383	3,563	12.3	8.9	12.3
500,001 to 1,000,000	Q	12	16	Q	1,072	1,187	Q	10.9	13.1
1,000,001 to 5,000,000	13	41	56	753	2,073	2,893	16.6	19.6	19.3
Over 5,000,000	Q	45	39	Q	1,999	1,817	Q	22.6	21.6

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use electricity.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C18A. Electricity Consumption and Conditional Energy Intensity by Census Division for All Buildings, 2003: Part 2

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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	66	254	57	5,523	13,837	3,546	12.0	18.3	16.2
Building Floorspace (Square Feet)									
1,001 to 5,000	10	28	7	821	1,233	481	12.4	22.4	15.4
5,001 to 10,000	7	20	5	681	1,389	386	10.8	14.4	13.3
10,001 to 25,000	9	31	12	1,204	2,411	842	7.8	12.8	14.1
25,001 to 50,000	15	29	6	949	1,867	490	16.1	15.5	11.7
50,001 to 100,000	9	35	13	664	1,797	749	13.1	19.2	17.0
100,001 to 200,000	8	50	Q	614	2,422	Q	12.3	20.6	Q
200,001 to 500,000	Q	23	Q	Q	1,148	Q	Q	20.4	Q
Over 500,000	Q	38	Q	Q	1,572	Q	Q	24.3	Q
Principal Building Activity									
Education	5	39	Q	549	2,445	Q	8.8	16.0	Q
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	Q	20	Q	Q	433	Q	Q	45.7	Q
Health Care	5	17	5	247	749	219	20.8	23.4	24.2
Inpatient	Q	15	Q	Q	469	Q	Q	31.3	Q
Outpatient	Q	3	Q	Q	280	Q	Q	10.1	Q
Lodging	7	17	Q	595	939	Q	11.3	18.0	Q
Mercantile	9	59	12	531	2,638	678	17.8	22.4	17.1
Retail (Other Than Mall)	6	16	4	337	897	353	17.3	17.7	11.9
Enclosed and Strip Malls	Q	43	Q	Q	1,741	Q	Q	24.9	Q
Office	12	35	9	799	1,958	481	14.9	18.0	18.8
Public Assembly	Q	9	Q	Q	440	Q	Q	20.4	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	2	5	Q	395	721	Q	3.9	6.4	Q
Service	4	Q	Q	484	753	Q	9.0	16.9	Q
Warehouse and Storage	6	16	Q	918	1,733	Q	6.9	9.1	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	3	Q	Q	541	Q	Q	4.8	8.9	Q
1920 to 1945	4	6	Q	459	647	Q	9.6	8.5	Q
1946 to 1959	4	16	Q	561	1,090	237	7.7	14.7	12.3
1960 to 1969	9	22	7	861	1,488	470	10.2	14.5	14.1
1970 to 1979	16	34	13	1,117	1,631	869	14.5	21.0	15.5
1980 to 1989	9	61	13	518	2,994	532	16.6	20.5	23.8
1990 to 1999	16	81	12	1,062	4,202	770	14.6	19.3	15.5
2000 to 2003	6	30	Q	403	1,446	Q	14.0	21.1	Q
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	33	N	N	2,616	N	N	12.7	N	N
5,500-7,000 HDD	13	N	N	Q	N	N	9.9	N	N
4,000-5,499 HDD	20	57	Q	1,570	3,063	Q	12.5	18.8	19.7
Fewer than 4,000 HDD	N	124	Q	N	6,997	Q	N	17.7	13.5
2,000 CDD or More and --									
Fewer than 4,000 HDD	N	73	Q	N	3,778	Q	N	19.2	19.6

Table C18A. Electricity Consumption and Conditional Energy Intensity by Census Division for All Buildings, 2003: Part 2

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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	66	254	57	5,523	13,837	3,546	12.0	18.3	16.2
Number of Establishments									
One	45	151	37	3,936	8,797	2,587	11.5	17.2	14.5
2 to 5	13	43	9	1,020	2,448	471	12.6	17.7	19.8
6 to 10	Q	19	Q	Q	759	Q	Q	25.7	Q
11 to 20	Q	16	Q	Q	684	Q	Q	22.7	Q
More than 20	Q	24	Q	Q	965	Q	Q	24.4	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)									
Electricity	66	254	57	5,523	13,837	3,546	12.0	18.3	16.2
Natural Gas	50	146	41	3,788	7,286	2,521	13.1	20.0	16.3
Fuel Oil	16	60	8	1,037	2,961	341	15.1	20.1	22.9
District Heat	Q	29	Q	Q	1,243	Q	Q	23.1	Q
Energy End Uses (more than one may apply)									
Buildings with Space Heating	66	239	56	5,301	12,585	3,382	12.4	19.0	16.7
Buildings with Cooling	64	252	57	4,888	13,186	3,311	13.1	19.1	17.1
Buildings with Water Heating	63	242	55	4,915	12,315	3,164	12.8	19.7	17.4
Annual Consumption (kilowatthours)									
10,000 or Less	1	1	Q	430	302	Q	1.2	2.0	Q
10,001 to 50,000	6	8	3	1,004	1,694	555	5.9	4.8	5.9
50,001 to 100,000	5	13	4	595	1,354	376	8.6	9.2	10.8
100,001 to 500,000	20	48	15	1,542	2,984	968	13.2	16.0	15.3
500,001 to 1,000,000	7	32	Q	687	1,602	Q	10.8	20.2	Q
1,000,001 to 5,000,000	21	81	20	1,004	3,361	737	21.1	24.2	26.5
Over 5,000,000	Q	71	7	Q	2,540	268	Q	27.9	27.5

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use electricity.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C19A. Electricity Consumption and Conditional Energy Intensity by Census Division for All Buildings, 2003: Part 3

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings	141	68	117	8,634	4,165	8,376	16.3	16.3	14.0
Building Floorspace (Square Feet)									
1,001 to 5,000	17	7	12	696	439	857	24.1	15.7	14.0
5,001 to 10,000	12	5	15	865	451	868	13.8	12.1	17.7
10,001 to 25,000	16	12	16	1,493	933	1,405	11.0	13.0	11.5
25,001 to 50,000	14	8	13	962	568	1,195	14.2	13.9	11.2
50,001 to 100,000	21	8	16	1,514	492	1,066	13.7	16.7	15.3
100,001 to 200,000	27	Q	16	1,391	Q	1,007	19.6	Q	15.6
200,001 to 500,000	14	5	12	744	Q	858	18.3	14.3	13.9
Over 500,000	21	Q	16	Q	Q	1,119	21.2	Q	14.5
Principal Building Activity									
Education	15	6	11	1,198	640	1,027	12.8	9.4	10.7
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	Q	Q	7	Q	Q	232	Q	Q	31.8
Health Care	8	6	6	309	230	323	27.5	25.8	20.1
Inpatient	7	Q	Q	235	Q	Q	29.7	Q	Q
Outpatient	Q	Q	Q	Q	Q	Q	Q	Q	Q
Lodging	Q	Q	8	Q	438	649	Q	Q	11.9
Mercantile	36	16	31	1,778	742	1,732	20.2	21.9	17.8
Retail (Other Than Mall)	9	Q	10	594	Q	753	15.8	Q	13.4
Enclosed and Strip Malls	27	Q	21	1,185	Q	979	22.4	Q	21.1
Office	27	10	26	1,343	629	1,796	19.9	16.3	14.6
Public Assembly	Q	Q	Q	Q	Q	464	Q	Q	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	4	Q	Q	467	Q	Q	8.1	Q	Q
Service	Q	Q	3	Q	Q	319	Q	Q	8.0
Warehouse and Storage	7	Q	6	1,581	Q	1,000	4.3	Q	5.9
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	Q	Q	Q	Q	Q	Q	Q	Q	Q
1920 to 1945	Q	Q	7	Q	Q	804	Q	Q	9.3
1946 to 1959	5	3	9	495	255	767	9.4	13.4	11.6
1960 to 1969	9	8	11	697	615	1,040	12.6	12.8	10.5
1970 to 1979	30	20	19	1,698	1,135	1,266	17.9	17.7	15.0
1980 to 1989	42	15	31	2,176	731	1,994	19.1	20.2	15.6
1990 to 1999	35	12	30	2,095	683	1,638	16.8	18.3	18.3
2000 to 2003	15	7	8	990	474	703	14.8	15.1	12.0
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	N	34	Q	N	2,420	Q	N	14.0	15.7
5,500-7,000 HDD	N	Q	Q	N	1,166	Q	N	15.8	15.8
4,000-5,499 HDD	Q	N	10	Q	N	718	Q	N	14.5
Fewer than 4,000 HDD	33	N	78	2,153	N	5,911	15.1	N	13.1
2,000 CDD or More and --									
Fewer than 4,000 HDD	103	16	Q	6,026	580	Q	17.0	27.2	Q

Table C19A. Electricity Consumption and Conditional Energy Intensity by Census Division for All Buildings, 2003: Part 3

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings	141	68	117	8,634	4,165	8,376	16.3	16.3	14.0
Number of Establishments									
One	76	42	66	5,186	2,767	4,912	14.7	15.0	13.5
2 to 5	22	9	21	1,550	580	1,560	14.0	15.3	13.7
6 to 10	Q	Q	6	Q	Q	367	Q	Q	15.3
11 to 20	10	Q	7	412	Q	414	25.0	Q	17.4
More than 20	23	Q	16	992	Q	1,023	23.0	Q	15.7
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)									
Electricity	141	68	117	8,634	4,165	8,376	16.3	16.3	14.0
Natural Gas	99	54	77	5,448	3,263	5,644	18.2	16.6	13.6
Fuel Oil	31	Q	29	1,361	655	1,575	22.5	26.4	18.2
District Heat	Q	Q	6	Q	Q	413	Q	Q	14.1
Energy End Uses (more than one may apply)									
Buildings with Space Heating	136	64	106	8,024	4,013	7,404	17.0	16.0	14.4
Buildings with Cooling	139	65	112	8,226	3,756	7,591	16.9	17.4	14.8
Buildings with Water Heating	132	67	110	7,380	3,935	7,292	17.9	16.9	15.0
Annual Consumption (kilowatthours)									
10,000 or Less	Q	Q	1	Q	Q	292	Q	Q	1.8
10,001 to 50,000	6	3	6	1,156	565	1,201	5.0	5.4	4.9
50,001 to 100,000	6	3	7	840	323	701	7.6	9.5	9.9
100,001 to 500,000	32	18	31	2,024	1,255	2,168	15.9	14.6	14.2
500,001 to 1,000,000	14	Q	10	1,019	Q	685	14.0	Q	15.3
1,000,001 to 5,000,000	48	17	37	1,945	835	2,000	24.5	20.4	18.7
Over 5,000,000	34	Q	25	1,421	Q	1,329	24.0	28.0	18.7

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use electricity.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C20A. Electricity Consumption and Conditional Energy Intensity by Climate Zone[a] for All Buildings, 2003

	Total Electricity Consumption (billion kWh)					Total Floorspace of Buildings Using Electricity (million square feet)					Electricity Energy Intensity (kWh/square foot)				
	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	137	254	189	261	202	11,300	18,549	12,374	17,064	10,894	12.1	13.7	15.3	15.3	18.5
Building Floorspace (Square Feet)															
1,001 to 5,000	19	27	14	32	23	1,210	1,631	923	1,811	903	15.7	16.4	15.0	17.8	25.8
5,001 to 10,000	12	18	15	27	14	1,175	1,639	1,062	1,855	914	10.2	10.9	14.3	14.3	15.5
10,001 to 25,000	22	36	24	31	29	2,354	3,506	1,479	3,133	2,022	9.2	10.4	16.2	9.8	14.5
25,001 to 50,000	19	26	17	30	24	1,547	2,341	1,382	2,303	1,525	12.3	11.1	12.5	13.1	15.7
50,001 to 100,000	19	39	29	36	29	1,480	2,780	2,011	2,326	1,668	12.8	14.2	14.5	15.6	17.6
100,001 to 200,000	18	46	26	49	32	1,311	2,878	1,872	2,570	1,538	13.6	15.9	14.1	19.3	21.1
200,001 to 500,000	14	28	22	27	21	1,150	2,007	1,678	1,493	1,042	12.5	13.8	13.2	17.8	20.1
Over 500,000	14	34	41	29	29	1,073	1,766	1,966	1,573	1,282	13.4	19.5	20.7	18.2	22.4
Principal Building Activity															
Education	13	23	16	31	27	1,537	2,800	1,401	2,435	1,698	8.2	8.0	11.1	12.7	16.0
Food Sales	12	Q	Q	Q	Q	271	Q	Q	Q	Q	43.0	Q	Q	Q	Q
Food Service	7	12	Q	20	17	227	400	Q	440	366	29.3	30.6	Q	45.7	46.3
Health Care	10	18	11	20	14	475	784	564	844	496	20.6	23.3	19.2	23.7	27.6
Inpatient	6	12	8	17	9	262	450	323	592	278	23.7	27.7	23.3	28.2	34.0
Outpatient	4	6	3	3	Q	213	334	240	252	Q	16.7	17.4	13.7	13.4	Q
Lodging	8	21	12	18	10	768	1,314	1,132	1,275	608	10.1	15.9	Q	14.0	16.7
Mercantile	28	40	33	58	56	1,617	2,337	1,694	3,346	2,197	17.0	17.2	19.4	17.3	25.6
Retail (Other Than Mall)	10	10	10	16	15	710	865	695	1,454	592	14.2	11.0	14.8	11.3	25.9
Enclosed and Strip Malls	17	31	23	41	41	907	1,473	999	1,892	1,604	19.2	20.8	22.7	21.9	25.5
Office	22	58	53	39	38	1,593	3,165	3,125	2,341	1,985	13.9	18.2	17.1	16.8	19.2
Public Assembly	8	8	6	18	9	876	818	806	906	529	9.1	9.5	Q	19.7	17.0
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	1	5	2	5	5	408	1,320	499	1,039	488	3.0	3.5	4.9	4.8	10.1
Service	10	11	Q	7	Q	911	1,179	639	946	Q	10.6	9.6	Q	7.6	Q
Warehouse and Storage	11	24	11	16	9	1,564	2,539	1,426	2,186	1,710	7.0	9.6	7.9	7.5	5.0
Other	Q	11	Q	Q	Q	Q	467	Q	Q	Q	Q	24.6	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed															
Before 1920	6	8	Q	2	Q	1,212	1,393	731	286	Q	5.2	5.6	Q	8.7	Q
1920 to 1945	8	24	17	9	Q	1,071	2,125	1,949	1,190	Q	7.8	11.1	8.6	7.7	Q
1946 to 1959	9	24	15	18	6	1,070	2,499	1,427	1,529	530	8.8	9.4	10.3	12.1	11.4
1960 to 1969	16	29	21	21	18	1,447	2,576	1,571	1,958	1,046	11.3	11.3	13.4	10.9	16.8
1970 to 1979	38	51	39	40	34	2,496	3,259	1,939	2,689	1,676	15.4	15.6	20.0	14.8	20.3
1980 to 1989	15	55	40	72	50	1,095	2,790	2,101	3,786	2,517	13.9	19.6	19.1	18.9	19.8
1990 to 1999	31	43	31	74	61	2,032	2,620	1,722	4,115	3,209	15.4	16.6	18.3	17.9	19.1
2000 to 2003	12	21	18	24	27	876	1,288	935	1,510	1,420	13.3	16.6	19.4	15.9	18.7
Census Region and Division															
Northeast	26	73	73	N	N	2,515	5,958	5,425	N	N	10.3	12.2	13.5	N	N
New England	7	34	N	N	N	Q	2,463	N	N	N	7.4	13.9	N	N	N
Middle Atlantic	Q	39	73	N	N	1,549	3,495	5,425	N	N	12.1	11.1	13.5	N	N
Midwest	68	147	20	N	N	5,783	10,372	1,570	N	N	11.8	14.1	12.5	N	N
East North Central	35	133	N	N	N	3,167	9,036	N	N	N	11.0	14.8	N	N	N
West North Central	33	13	20	N	N	2,616	Q	1,570	N	N	12.7	9.9	12.5	N	N
South	N	N	86	183	183	N	N	4,661	11,153	10,203	N	N	18.4	16.4	17.9
South Atlantic	N	N	57	124	73	N	N	3,063	6,997	3,778	N	N	18.8	17.7	19.2
East South Central	N	N	Q	Q	Q	N	N	Q	Q	Q	N	N	19.7	13.5	19.6
West South Central	N	N	Q	33	103	N	N	Q	2,153	6,026	N	N	Q	15.1	17.0
West	43	35	10	78	19	3,002	2,219	718	5,911	692	14.3	15.8	14.5	13.1	27.4
Mountain	34	Q	N	N	16	2,420	1,166	N	N	580	14.0	15.8	N	N	27.2
Pacific	Q	Q	10	78	Q	Q	Q	718	5,911	Q	15.7	15.8	14.5	13.1	Q

Table C20A. Electricity Consumption and Conditional Energy Intensity by Climate Zone[a] for All Buildings, 2003

	Total Electricity Consumption (billion kWh)					Total Floorspace of Buildings Using Electricity (million square feet)					Electricity Energy Intensity (kWh/square foot)				
	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	137	254	189	261	202	11,300	18,549	12,374	17,064	10,894	12.1	13.7	15.3	15.3	18.5
Number of Establishments															
One	83	169	111	161	103	6,955	12,392	7,648	11,322	6,061	12.0	13.6	14.5	14.2	16.9
2 to 5	31	41	31	51	26	2,512	3,217	2,021	3,008	1,768	12.3	12.9	15.3	17.0	14.8
6 to 10	9	16	10	11	20	584	867	530	586	791	15.3	18.7	19.7	19.4	25.7
11 to 20	Q	15	13	14	18	Q	747	793	694	723	Q	20.4	16.0	20.8	24.3
More than 20	Q	Q	23	23	35	Q	Q	1,227	1,236	1,417	Q	Q	18.8	18.5	24.7
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)															
Electricity	137	254	189	261	202	11,300	18,549	12,374	17,064	10,894	12.1	13.7	15.3	15.3	18.5
Natural Gas	111	201	138	183	110	8,484	14,122	8,970	11,796	5,093	13.0	14.2	15.4	15.5	21.6
Fuel Oil	33	70	77	50	45	2,624	4,270	4,950	2,528	1,878	12.7	16.4	15.5	19.6	24.1
District Heat	11	34	23	23	Q	825	1,917	1,349	1,025	Q	13.3	17.9	17.0	22.0	Q
Energy End Uses (more than one may apply)															
Buildings with Space Heating	136	252	188	249	181	10,986	18,166	12,233	15,705	9,320	12.4	13.9	15.4	15.9	19.5
Buildings with Cooling	129	238	187	255	201	9,438	15,932	11,906	15,798	10,472	13.7	14.9	15.7	16.1	19.1
Buildings with Water Heating	133	235	187	248	187	10,335	16,511	11,765	14,976	9,225	12.9	14.2	15.9	16.6	20.3
Annual Consumption (kilowatthours)															
10,000 or Less	1	1	1	1	Q	636	1,052	306	622	Q	1.3	1.1	1.7	1.7	Q
10,001 to 50,000	7	12	7	12	7	1,595	2,612	1,270	2,633	1,160	4.7	4.5	5.6	4.6	5.8
50,001 to 100,000	10	12	8	17	8	1,086	1,607	1,369	1,739	924	9.1	7.5	5.8	9.5	9.1
100,001 to 500,000	43	62	30	60	43	3,333	4,729	2,864	4,124	2,571	12.8	13.0	10.6	14.6	16.8
500,001 to 1,000,000	12	24	22	27	26	1,110	1,853	1,353	1,641	1,402	10.6	12.8	16.3	16.3	18.5
1,000,001 to 5,000,000	43	81	60	84	66	2,502	3,998	2,642	3,894	2,565	17.1	20.3	22.5	21.6	25.6
Over 5,000,000	22	63	62	60	52	1,036	2,698	2,570	2,411	2,026	20.9	23.4	23.9	24.8	25.6

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs

.a Climate zone (30-year average) definitions: Zone 1 = Under 2,000 CDD and more than 7,000 HDD; Zone 2 = Under 2,000 CDD and 5,500-7,000 HDD; Zone 3 = Under 2,000 CDD and 4,000-5,499 HDD; Zone 4 = Under 2,000 CDD and fewer than 4,000 HDD; Zone 5 = 2,000 CDD or more and fewer than 4,000 HDD. (See "Glossary" for definitions of CDD and HDD.)

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

N=No responding cases in sample that use electricity.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C21A. Electricity Consumption and Conditional Energy Intensity by Building Size for All Buildings, 2003

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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	201	412	431	13,124	31,858	25,200	15.3	12.9	17.1
Principal Building Activity									
Education	9	55	45	806	5,378	3,687	11.1	10.2	12.2
Food Sales	36	24	Q	747	467	Q	48.8	51.1	Q
Food Service	47	16	Q	986	664	Q	47.8	24.5	Q
Health Care	6	17	50	445	835	1,883	13.1	20.5	26.3
Inpatient	N	Q	47	N	Q	1,723	N	Q	27.0
Outpatient	6	11	Q	445	652	Q	13.1	17.4	Q
Lodging	4	31	34	260	2,274	2,563	14.0	13.5	13.5
Mercantile	28	99	89	1,944	5,204	4,044	14.2	19.0	21.9
Retail (Other Than Mall)	17	28	18	1,363	2,133	821	12.2	12.9	21.5
Enclosed and Strip Malls	11	71	71	581	3,071	3,223	19.1	23.1	22.0
Office	30	75	105	2,320	4,602	5,286	12.9	16.4	19.9
Public Assembly	10	21	19	850	1,851	1,233	11.6	11.2	Q
Public Order and Safety	2	6	Q	231	390	Q	10.4	14.9	Q
Religious Worship	5	11	Q	1,160	2,391	Q	4.5	4.7	Q
Service	14	19	Q	1,687	1,862	Q	8.2	10.2	Q
Warehouse and Storage	7	25	40	1,256	4,482	3,687	5.8	5.5	10.8
Other	2	11	25	206	601	922	9.6	19.1	27.6
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	6	14	6	959	1,981	805	6.8	7.3	7.0
1920 to 1945	16	19	28	1,514	2,426	2,768	10.9	7.8	10.0
1946 to 1959	16	28	28	1,517	3,301	2,237	10.8	8.5	12.4
1960 to 1969	20	49	37	1,584	4,457	2,556	12.5	11.0	14.3
1970 to 1979	37	82	82	2,369	5,388	4,301	15.7	15.3	19.2
1980 to 1989	38	79	114	1,968	4,912	5,410	19.2	16.2	21.1
1990 to 1999	52	95	94	2,325	6,647	4,726	22.3	14.3	20.0
2000 to 2003	15	44	42	887	2,745	2,396	16.8	16.2	17.7
Census Region and Division									
Northeast	25	64	83	2,159	5,754	5,985	11.6	11.1	13.9
New England	8	18	16	729	1,630	1,071	10.7	11.0	14.5
Middle Atlantic	17	46	68	1,431	4,124	4,914	12.0	11.2	13.7
Midwest	47	98	89	3,299	8,321	6,104	14.3	11.8	14.6
East North Central	30	65	74	1,797	5,505	4,900	16.5	11.8	15.0
West North Central	18	33	15	1,502	2,816	1,204	11.7	11.8	12.6
South	89	176	187	5,050	12,123	8,844	17.6	14.5	21.2
South Atlantic	48	94	111	2,622	6,074	5,141	18.2	15.5	21.7
East South Central	13	30	15	868	2,081	597	14.4	14.6	24.3
West South Central	29	51	61	1,560	3,969	3,105	18.4	12.8	19.8
West	40	74	71	2,615	5,659	4,267	15.2	13.1	16.7
Mountain	12	28	27	890	1,993	1,282	13.9	14.1	21.4
Pacific	27	46	44	1,725	3,667	2,984	15.9	12.5	14.7
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	31	60	47	2,385	5,382	3,534	13.0	11.1	13.2
5,500-7,000 HDD	45	102	108	3,270	8,627	6,652	13.6	11.8	16.2
4,000-5,499 HDD	29	71	89	1,986	4,872	5,516	14.6	14.5	16.2
Fewer than 4,000 HDD	59	97	105	3,666	7,762	5,636	16.0	12.5	18.6
2,000 CDD or More and --									
Fewer than 4,000 HDD	37	83	82	1,817	5,215	3,863	20.6	15.8	21.2

Table C21A. Electricity Consumption and Conditional Energy Intensity by Building Size for All Buildings, 2003

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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	201	412	431	13,124	31,858	25,200	15.3	12.9	17.1
Number of Establishments									
One	166	252	208	10,331	20,970	13,077	16.0	12.0	15.9
2 to 5	31	76	73	2,372	6,221	3,934	13.2	12.3	18.6
6 to 10	Q	41	23	Q	2,060	1,106	Q	20.0	20.6
11 to 20	Q	32	31	Q	1,548	1,819	Q	21.0	17.2
More than 20	Q	8	94	Q	462	4,571	Q	18.4	20.5
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)									
Electricity	201	412	431	13,124	31,858	25,200	15.3	12.9	17.1
Natural Gas	118	292	333	7,142	21,928	19,396	16.6	13.3	17.2
Fuel Oil	13	59	203	1,327	3,790	11,133	9.6	15.5	18.3
District Heat	Q	20	80	Q	1,232	4,244	Q	16.4	18.8
Energy End Uses (more than one may apply)									
Buildings with Space Heating	188	400	418	11,963	29,981	24,466	15.7	13.3	17.1
Buildings with Cooling	189	403	418	10,918	28,985	23,642	17.3	13.9	17.7
Buildings with Water Heating	180	397	414	10,551	28,569	23,692	17.1	13.9	17.5
Annual Consumption (kilowatthours)									
10,000 or Less	4	Q	Q	1,954	Q	Q	1.8	Q	Q
10,001 to 50,000	39	6	Q	5,607	3,534	Q	7.0	1.8	Q
50,001 to 100,000	41	14	Q	2,782	3,382	Q	14.6	4.1	Q
100,001 to 500,000	102	133	3	2,628	13,156	1,838	38.7	10.1	1.6
500,001 to 1,000,000	Q	90	8	Q	5,538	1,696	Q	16.2	4.6
1,000,001 to 5,000,000	Q	166	164	Q	5,369	10,206	Q	30.9	16.1
Over 5,000,000	N	Q	255	N	Q	10,720	N	Q	23.8

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use electricity.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C22A. Electricity Consumption and Conditional Energy Intensity by Year Constructed for All Buildings, 2003

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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	162	538	343	17,509	32,945	19,727	9.2	16.3	17.4
Building Floorspace (Square Feet)									
1,001 to 5,000	24	54	38	2,072	2,767	1,640	11.4	19.4	23.0
5,001 to 10,000	16	41	29	1,919	3,154	1,572	8.2	13.0	18.4
10,001 to 25,000	28	69	45	3,201	5,610	3,683	8.7	12.3	12.2
25,001 to 50,000	17	63	36	2,412	4,383	2,303	7.2	14.5	15.5
50,001 to 100,000	16	78	59	2,095	4,763	3,406	7.8	16.4	17.3
100,001 to 200,000	20	88	63	2,150	4,671	3,350	9.5	18.9	18.9
200,001 to 500,000	22	61	29	2,054	3,623	1,692	10.6	16.8	17.2
Over 500,000	19	84	44	1,606	3,974	2,080	11.6	21.1	21.3
Principal Building Activity									
Education	22	53	34	3,191	4,359	2,321	6.8	12.3	14.4
Food Sales	Q	29	Q	Q	585	Q	Q	50.0	Q
Food Service	10	22	31	613	524	517	16.7	42.9	59.4
Health Care	14	43	16	730	1,671	762	19.2	25.5	21.0
Inpatient	11	35	7	456	1,218	231	23.7	28.4	30.2
Outpatient	3	8	9	273	453	531	11.7	17.9	17.0
Lodging	10	39	20	1,236	2,564	1,296	Q	15.3	15.1
Mercantile	16	115	84	1,372	5,983	3,836	11.3	19.3	21.9
Retail (Other Than Mall)	8	24	29	1,026	1,804	1,487	8.2	13.3	19.7
Enclosed and Strip Malls	Q	91	55	Q	4,179	2,350	Q	21.8	23.3
Office	34	131	46	2,852	6,792	2,563	11.9	19.2	17.9
Public Assembly	7	20	22	1,455	1,445	1,035	4.6	13.9	21.6
Public Order and Safety	Q	7	Q	Q	385	Q	Q	18.5	Q
Religious Worship	4	6	7	1,522	1,328	904	2.9	4.8	8.1
Service	7	26	11	1,045	1,925	1,012	6.3	13.4	11.4
Warehouse and Storage	Q	25	30	1,941	3,851	3,633	8.3	6.5	8.4
Other	Q	19	14	Q	684	673	Q	28.0	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Census Region and Division									
Northeast	47	86	38	6,080	5,448	2,371	7.8	15.8	16.2
New England	9	22	Q	1,475	1,339	615	6.0	16.1	17.7
Middle Atlantic	39	65	28	4,605	4,109	1,755	8.4	15.8	15.7
Midwest	50	118	67	5,559	8,158	4,008	9.0	14.4	16.7
East North Central	39	84	46	3,997	5,662	2,543	9.7	14.8	17.9
West North Central	11	34	21	1,562	2,495	1,465	7.2	13.5	14.5
South	41	231	180	3,611	12,556	9,850	11.5	18.4	18.2
South Atlantic	25	117	112	2,076	6,113	5,648	11.8	19.2	19.8
East South Central	7	33	18	557	1,871	1,117	11.9	17.5	16.1
West South Central	10	81	50	977	4,572	3,085	10.4	17.7	16.1
West	23	104	58	2,260	6,782	3,499	10.3	15.3	16.6
Mountain	6	43	20	526	2,482	1,157	10.6	17.2	17.0
Pacific	18	61	38	1,734	4,301	2,342	10.1	14.2	16.4
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	24	70	43	3,354	5,038	2,908	7.2	13.9	14.7
5,500-7,000 HDD	55	135	65	6,017	8,625	3,908	9.2	15.6	16.6
4,000-5,499 HDD	40	100	50	4,107	5,610	2,657	9.6	17.8	18.7
Fewer than 4,000 HDD	30	133	98	3,005	8,433	5,625	10.0	15.7	17.4
2,000 CDD or More and --									
Fewer than 4,000 HDD	13	101	88	1,027	5,239	4,629	12.6	19.3	19.0

Table C22A. Electricity Consumption and Conditional Energy Intensity by Year Constructed for All Buildings, 2003

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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	162	538	343	17,509	32,945	19,727	9.2	16.3	17.4
Number of Establishments									
One	112	300	215	12,146	19,255	12,978	9.2	15.6	16.5
2 to 5	29	96	55	3,085	6,071	3,370	9.5	15.8	16.4
6 to 10	5	37	25	511	1,879	968	10.0	19.6	26.0
11 to 20	6	39	19	635	1,819	915	8.8	21.4	21.0
More than 20	10	65	28	648	3,239	1,174	15.1	20.1	23.5
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)									
Electricity	162	538	343	17,509	32,945	19,727	9.2	16.3	17.4
Natural Gas	112	382	249	12,400	22,762	13,304	9.0	16.8	18.7
Fuel Oil	46	153	76	5,089	7,573	3,588	9.1	20.1	21.2
District Heat	31	47	23	2,206	2,330	1,041	14.0	20.3	21.9
Energy End Uses (more than one may apply)									
Buildings with Space Heating	157	520	329	16,776	31,401	18,233	9.4	16.6	18.1
Buildings with Cooling	143	528	339	14,196	30,929	18,421	10.1	17.1	18.4
Buildings with Water Heating	143	516	332	14,878	30,250	17,684	9.6	17.1	18.7
Annual Consumption (kilowatthours)									
10,000 or Less	1	2	1	1,102	1,083	676	1.4	1.5	1.1
10,001 to 50,000	16	20	10	3,555	3,845	1,870	4.4	5.1	5.5
50,001 to 100,000	16	25	14	2,387	2,579	1,759	6.8	9.7	7.7
100,001 to 500,000	44	118	77	4,789	8,115	4,718	9.1	14.5	16.2
500,001 to 1,000,000	14	56	40	1,354	3,617	2,389	10.6	15.5	16.7
1,000,001 to 5,000,000	38	176	119	2,452	8,036	5,113	15.5	21.9	23.3
Over 5,000,000	33	142	83	1,870	5,670	3,202	17.5	25.1	26.0

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use electricity.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C23A. Total Natural Gas Consumption and Expenditures in All Buildings, 2003

	All Buildings Using Natural Gas			Natural Gas Consumption		Natural Gas Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (billion cubic feet)	Total (million dollars)
All Buildings	2,538	48,473	19.1	2,100	2,037	16,010
Building Floorspace (Square Feet)						
1,001 to 5,000	1,134	3,175	2.8	257	249	2,227
5,001 to 10,000	531	3,969	7.5	224	218	1,830
10,001 to 25,000	500	7,824	15.6	353	343	2,897
25,001 to 50,000	185	6,604	35.8	278	270	2,054
50,001 to 100,000	107	7,500	70.3	277	269	2,140
100,001 to 200,000	54	7,545	138.5	275	267	1,964
200,001 to 500,000	20	5,892	291.5	211	204	1,396
Over 500,000	6	5,964	951.0	224	217	1,502
Principal Building Activity						
Education	213	7,045	33.1	268	260	1,889
Food Sales	98	747	7.6	39	37	332
Food Service	226	1,396	6.2	203	197	1,615
Health Care	72	2,544	35.5	243	235	1,538
Inpatient	7	1,805	257.0	204	198	1,241
Outpatient	65	739	11.4	38	37	297
Lodging	86	4,256	49.7	215	208	1,581
Mercantile	392	7,871	20.1	264	256	2,204
Retail (Other Than Mall)	245	2,866	11.7	91	89	719
Enclosed and Strip Malls	146	5,005	34.2	172	167	1,486
Office	488	8,208	16.8	269	261	2,201
Public Assembly	146	2,723	18.6	102	99	775
Public Order and Safety	36	637	17.7	29	28	234
Religious Worship	220	2,629	11.9	82	80	664
Service	281	2,496	8.9	139	135	1,096
Warehouse and Storage	187	5,494	29.4	132	128	976
Other	45	1,252	27.9	87	85	684
Vacant	49	1,176	24.2	28	27	220
Year Constructed						
Before 1920	203	2,774	13.6	143	139	1,136
1920 to 1945	344	4,776	13.9	232	225	1,734
1946 to 1959	322	4,857	15.1	223	216	1,668
1960 to 1969	327	6,140	18.8	276	268	2,064
1970 to 1979	425	8,795	20.7	402	390	2,877
1980 to 1989	343	7,828	22.8	339	328	2,685
1990 to 1999	448	9,205	20.5	345	334	2,722
2000 to 2003	125	4,099	32.7	140	136	1,125
Census Region and Division						
Northeast	428	10,162	23.7	462	448	3,883
New England	91	1,861	20.5	87	85	806
Middle Atlantic	337	8,301	24.6	375	364	3,076
Midwest	839	14,144	16.9	751	728	5,215
East North Central	577	10,356	18.0	567	550	3,968
West North Central	262	3,788	14.5	184	178	1,246
South	767	15,260	19.9	527	511	4,356
South Atlantic	334	7,286	21.8	246	238	2,225
East South Central	166	2,521	15.2	107	104	869
West South Central	267	5,453	20.4	174	168	1,262
West	504	8,907	17.7	360	350	2,557
Mountain	202	3,263	16.1	190	185	1,252
Pacific	301	5,644	18.7	170	165	1,305

Table C23A. Total Natural Gas Consumption and Expenditures in All Buildings, 2003

	All Buildings Using Natural Gas			Natural Gas Consumption		Natural Gas Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (billion cubic feet)	Total (million dollars)
All Buildings	2,538	48,473	19.1	2,100	2,037	16,010
Climate Zone: 30-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	514	8,486	16.5	468	454	3,329
5,500-7,000 HDD	768	14,122	18.4	737	715	5,416
4,000-5,499 HDD	373	8,970	24.0	368	356	2,989
Fewer than 4,000 HDD	683	11,796	17.3	389	378	3,218
2,000 CDD or More and --						
Fewer than 4,000 HDD	199	5,098	25.6	138	134	1,058
Number of Establishments						
One	1,912	30,518	16.0	1,462	1,418	10,950
2 to 5	460	8,715	18.9	359	348	2,838
6 to 10	86	2,397	27.8	95	92	782
11 to 20	28	2,223	80.5	69	67	555
More than 20	15	3,686	Q	96	93	743
Currently Unoccupied	37	933	25.6	18	18	142
Energy Sources (more than one may apply)						
Electricity	2,536	48,466	19.1	2,100	2,037	16,009
Natural Gas	2,538	48,473	19.1	2,100	2,037	16,010
Fuel Oil	143	11,296	79.1	523	507	3,676
District Heat	25	2,577	104.0	48	47	333
Energy End Uses (more than one may apply)						
Buildings with Space Heating	2,485	47,804	19.2	2,077	2,014	15,821
Buildings with Cooling	2,287	45,856	20.0	1,987	1,927	15,141
Buildings with Water Heating	2,259	45,886	20.3	2,035	1,974	15,453
Annual Consumption (hundred cubic feet)						
1,000 or Less	682	4,398	6.4	37	36	417
1,001 to 5,000	1,069	10,384	9.7	265	257	2,383
5,001 to 10,000	375	6,948	18.5	274	265	2,291
10,001 to 25,000	259	8,604	33.2	402	390	3,150
25,001 to 50,000	97	6,800	70.2	334	324	2,524
50,001 to 100,000	34	4,715	139.8	242	234	1,635
Over 100,000	22	6,623	306.8	546	529	3,611

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use natural gas.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C24A. Natural Gas Consumption and Expenditure Intensities for All Buildings, 2003

	Natural Gas Consumption					Natural Gas Expenditures		
			Distribution of Building-Level Intensities (cubic feet/square foot)					
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)
All Buildings	803	42.0	17.9	37.4	71.0	6.3	0.33	7.86
Building Floorspace (Square Feet)								
1,001 to 5,000	220	78.6	23.8	46.8	92.0	2.0	0.70	8.93
5,001 to 10,000	410	54.8	15.0	29.6	66.2	3.4	0.46	8.41
10,001 to 25,000	685	43.8	16.2	31.0	55.9	5.8	0.37	8.45
25,001 to 50,000	1,464	40.9	16.0	31.0	55.4	11.1	0.31	7.60
50,001 to 100,000	2,519	35.8	10.8	28.6	48.9	20.1	0.29	7.97
100,001 to 200,000	4,898	35.4	6.4	23.8	51.9	36.1	0.26	7.36
200,001 to 500,000	10,109	34.7	10.0	23.2	47.2	69.1	0.24	6.83
Over 500,000	34,579	36.4	4.0	17.5	48.8	239.4	0.25	6.92
Principal Building Activity								
Education	1,223	36.9	14.9	31.9	60.8	8.9	0.27	7.27
Food Sales	383	50.2	18.9	39.8	69.4	3.4	0.44	8.85
Food Service	870	141.2	77.0	150.3	301.8	7.1	1.16	8.20
Health Care	3,283	92.5	19.1	40.1	65.7	21.5	0.60	6.54
Inpatient	28,222	109.8	77.1	112.3	145.1	176.8	0.69	6.26
Outpatient	574	50.2	16.2	34.2	56.0	4.6	0.40	8.01
Lodging	2,432	48.9	19.8	36.7	76.4	18.5	0.37	7.59
Mercantile	653	32.5	18.4	34.0	70.2	5.6	0.28	8.62
Retail (Other Than Mall)	362	30.9	16.5	28.7	66.8	2.9	0.25	8.11
Enclosed and Strip Malls	1,142	33.4	23.2	41.7	71.8	10.1	0.30	8.89
Office	535	31.8	17.2	35.7	56.9	4.5	0.27	8.42
Public Assembly	678	36.4	13.0	28.9	53.5	5.3	0.28	7.83
Public Order and Safety	771	43.7	26.6	49.8	76.8	6.5	0.37	8.43
Religious Worship	362	30.3	12.9	29.5	53.0	3.0	0.25	8.33
Service	481	54.1	22.9	44.5	82.6	3.9	0.44	8.12
Warehouse and Storage	687	23.4	9.3	22.1	37.5	5.2	0.18	7.60
Other	1,885	67.6	22.6	46.3	82.8	15.3	0.55	8.09
Vacant	557	23.0	7.4	21.7	44.6	4.5	0.19	8.14
Year Constructed								
Before 1920	684	50.2	24.6	45.9	70.7	5.6	0.41	8.17
1920 to 1945	654	47.1	17.5	34.5	68.2	5.0	0.36	7.71
1946 to 1959	671	44.5	21.9	39.0	76.5	5.2	0.34	7.72
1960 to 1969	819	43.6	19.1	39.6	70.9	6.3	0.34	7.71
1970 to 1979	917	44.3	19.9	37.7	73.7	6.8	0.33	7.38
1980 to 1989	957	42.0	15.9	32.2	71.8	7.8	0.34	8.17
1990 to 1999	746	36.3	15.2	31.9	69.6	6.1	0.30	8.14
2000 to 2003	1,087	33.2	13.7	35.0	67.0	9.0	0.27	8.26
Census Region and Division								
Northeast	1,047	44.1	22.9	45.2	79.2	9.1	0.38	8.66
New England	932	45.4	21.9	41.1	65.0	8.9	0.43	9.54
Middle Atlantic	1,078	43.8	24.2	48.4	81.8	9.1	0.37	8.46
Midwest	868	51.5	25.9	46.3	80.2	6.2	0.37	7.16
East North Central	953	53.1	27.4	47.7	84.0	6.9	0.38	7.22
West North Central	680	47.0	23.4	45.2	74.1	4.8	0.33	7.00
South	666	33.5	12.8	26.4	54.5	5.7	0.29	8.53
South Atlantic	713	32.7	13.4	30.3	55.7	6.7	0.31	9.33
East South Central	629	41.3	14.4	24.9	45.9	5.2	0.34	8.35
West South Central	630	30.9	9.9	25.2	58.9	4.7	0.23	7.49
West	694	39.3	11.7	27.4	59.9	5.1	0.29	7.31
Mountain	913	56.6	28.4	50.3	90.9	6.2	0.38	6.78
Pacific	547	29.2	8.2	17.3	39.8	4.3	0.23	7.91

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Table C24A. Natural Gas Consumption and Expenditure Intensities for All Buildings, 2003

	Natural Gas Consumption					Natural Gas Expenditures		
			Distribution of Building-Level Intensities (cubic feet/square foot)					
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)
All Buildings	803	42.0	17.9	37.4	71.0	6.3	0.33	7.86
Climate Zone: 30-Year Average								
Under 2,000 CDD and --								
More than 7,000 HDD	883	53.5	29.6	48.1	84.4	6.5	0.39	7.33
5,500-7,000 HDD	931	50.6	25.9	46.4	80.2	7.1	0.38	7.58
4,000-5,499 HDD	954	39.7	20.2	38.4	71.3	8.0	0.33	8.39
Fewer than 4,000 HDD	553	32.0	11.7	23.4	45.9	4.7	0.27	8.52
2,000 CDD or More and --								
Fewer than 4,000 HDD	674	26.3	6.4	16.1	47.9	5.3	0.21	7.90
Number of Establishments								
One	742	46.5	19.3	38.4	74.4	5.7	0.36	7.72
2 to 5	757	40.0	16.3	36.3	66.9	6.2	0.33	8.15
6 to 10	1,074	38.6	17.1	39.5	57.4	9.1	0.33	8.45
11 to 20	2,431	30.2	11.9	26.4	51.9	20.1	0.25	8.26
More than 20	Q	25.3	9.1	30.1	40.3	Q	0.20	7.98
Currently Unoccupied	480	18.8	8.4	21.7	47.1	3.9	0.15	8.10
Energy Sources (more than one may apply)								
Electricity	803	42.0	17.9	37.4	70.9	6.3	0.33	7.86
Natural Gas	803	42.0	17.9	37.4	71.0	6.3	0.33	7.86
Fuel Oil	3,549	44.9	12.0	35.3	65.7	25.7	0.33	7.25
District Heat	1,877	18.0	1.3	3.5	9.7	13.4	0.13	7.15
Energy End Uses (more than one may apply)								
Buildings with Space Heating	811	42.1	18.8	37.7	71.3	6.4	0.33	7.85
Buildings with Cooling	842	42.0	18.0	36.9	71.3	6.6	0.33	7.86
Buildings with Water Heating	874	43.0	19.3	39.4	74.5	6.8	0.34	7.83
Annual Consumption (hundred cubic feet)								
1,000 or Less	53	8.2	6.6	15.2	30.6	0.6	0.09	11.59
1,001 to 5,000	241	24.8	21.9	38.8	68.0	2.2	0.23	9.27
5,001 to 10,000	707	38.2	35.0	62.2	142.4	6.1	0.33	8.63
10,001 to 25,000	1,508	45.4	38.9	73.1	150.3	12.2	0.37	8.07
25,001 to 50,000	3,347	47.6	42.3	69.7	150.1	26.1	0.37	7.79
50,001 to 100,000	6,948	49.7	40.1	73.3	117.7	48.5	0.35	6.98
Over 100,000	24,523	79.9	55.3	90.2	137.8	167.3	0.55	6.82

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use natural gas.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C25A. Natural Gas Consumption and Conditional Energy Intensity by Census Region for All Buildings, 2003

	Total Natural Gas Consumption (billion cubic feet)				Total Floorspace of Buildings Using Natural Gas (million square feet)				Natural Gas Energy Intensity (cubic feet/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	448	728	511	350	10,162	14,144	15,260	8,907	44.1	51.5	33.5	39.3
Building Floorspace (Square Feet)												
1,001 to 5,000	50	92	68	40	547	1,086	912	629	90.6	84.6	74.5	63.7
5,001 to 10,000	39	63	69	46	661	1,064	1,439	806	59.2	59.4	48.1	57.4
10,001 to 25,000	58	133	81	70	1,293	2,656	2,332	1,542	45.2	50.1	34.7	45.7
25,001 to 50,000	48	122	52	48	1,048	2,407	1,797	1,352	45.5	50.7	29.2	35.5
50,001 to 100,000	66	98	68	37	1,841	2,009	2,486	1,164	35.7	48.9	27.3	31.6
100,001 to 200,000	69	93	77	28	1,816	1,967	2,685	1,077	37.9	47.1	28.6	26.4
200,001 to 500,000	60	73	44	28	1,588	1,765	1,527	1,012	37.6	41.4	28.7	27.3
Over 500,000	59	54	52	Q	1,367	1,190	2,082	1,325	43.1	45.4	24.9	39.2
Principal Building Activity												
Education	51	113	47	48	1,347	2,184	2,291	1,222	38.2	51.8	20.6	39.6
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	Q	50	87	Q	Q	379	623	Q	Q	133.2	139.3	Q
Health Care	47	64	87	38	464	657	987	436	100.9	97.0	88.4	86.1
Inpatient	41	50	80	27	351	395	812	247	117.4	127.2	98.6	108.1
Outpatient	Q	14	Q	Q	Q	262	Q	Q	Q	51.5	Q	Q
Lodging	35	66	55	52	982	1,015	1,338	920	Q	65.0	41.1	56.6
Mercantile	49	82	74	51	1,366	1,669	3,097	1,739	36.0	49.0	23.9	29.1
Retail (Other Than Mall)	16	37	23	12	385	688	1,148	645	42.3	54.1	20.4	18.3
Enclosed and Strip Malls	33	45	51	39	981	981	1,949	1,094	33.6	45.5	26.0	35.6
Office	89	104	33	35	2,301	2,447	1,915	1,544	38.8	42.3	17.2	23.0
Public Assembly	16	43	22	18	712	770	699	542	Q	56.4	32.1	32.4
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	15	37	20	8	384	899	923	424	38.4	41.4	21.7	18.1
Service	23	57	28	Q	368	934	822	Q	62.2	61.3	34.6	Q
Warehouse and Storage	25	61	20	Q	985	1,921	1,617	971	25.8	31.9	12.1	Q
Other	45	Q	Q	Q	531	Q	Q	Q	85.5	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed												
Before 1920	42	66	Q	Q	956	1,175	Q	Q	43.7	56.4	Q	Q
1920 to 1945	90	94	23	18	1,919	1,344	790	722	47.0	69.6	28.8	25.6
1946 to 1959	57	88	47	24	1,461	1,746	1,012	637	39.0	50.2	46.9	37.7
1960 to 1969	63	102	55	48	1,385	2,023	1,555	1,176	45.8	50.3	35.3	40.4
1970 to 1979	64	153	81	91	1,326	3,018	2,690	1,760	48.2	50.8	30.1	52.0
1980 to 1989	47	89	110	82	1,256	1,601	3,108	1,862	37.7	55.4	35.3	44.3
1990 to 1999	50	100	133	52	1,117	2,262	4,203	1,624	44.7	44.1	31.5	32.2
2000 to 2003	35	37	44	21	742	973	1,506	879	46.6	38.0	29.3	23.4
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	Q	249	N	138	Q	4,665	N	2,521	51.1	53.4	N	54.9
5,500-7,000 HDD	207	435	N	73	4,188	8,633	N	1,302	49.4	50.4	N	55.8
4,000-5,499 HDD	175	44	123	15	4,676	846	2,992	456	37.4	51.7	41.1	33.0
Fewer than 4,000 HDD	N	N	269	108	N	N	7,577	4,219	N	N	35.6	25.6
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	119	15	N	N	4,690	408	N	N	25.3	37.8

Table C25A. Natural Gas Consumption and Conditional Energy Intensity by Census Region for All Buildings, 2003

	Total Natural Gas Consumption (billion cubic feet)				Total Floorspace of Buildings Using Natural Gas (million square feet)				Natural Gas Energy Intensity (cubic feet/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	448	728	511	350	10,162	14,144	15,260	8,907	44.1	51.5	33.5	39.3
Number of Establishments												
One	287	507	366	258	5,740	9,415	9,850	5,513	50.1	53.9	37.1	46.8
2 to 5	79	145	78	47	2,111	2,727	2,379	1,499	37.3	53.2	32.6	31.2
6 to 10	32	26	Q	17	677	574	Q	477	46.6	45.3	Q	34.8
11 to 20	Q	22	24	Q	Q	418	845	Q	Q	51.8	28.5	Q
More than 20	Q	Q	25	Q	Q	Q	1,448	Q	Q	Q	16.9	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)												
Electricity	448	728	511	350	10,162	14,143	15,254	8,907	44.1	51.5	33.5	39.3
Natural Gas	448	728	511	350	10,162	14,144	15,260	8,907	44.1	51.5	33.5	39.3
Fuel Oil	153	138	137	79	4,049	2,200	3,356	1,691	37.8	62.6	40.8	46.8
District Heat	Q	14	14	Q	799	680	811	Q	19.3	21.0	16.7	Q
Energy End Uses (more than one may apply)												
Buildings with Space Heating	446	727	509	333	10,146	14,112	15,012	8,534	43.9	51.5	33.9	39.0
Buildings with Cooling	416	680	503	327	9,521	13,037	15,041	8,257	43.7	52.2	33.5	39.6
Buildings with Water Heating	435	706	493	340	9,739	13,379	14,408	8,360	44.7	52.8	34.2	40.7
Annual Consumption (hundred cubic feet)												
1,000 or Less	4	11	12	9	895	698	1,656	1,149	Q	16.1	7.0	7.9
1,001 to 5,000	52	89	76	40	1,776	2,907	3,731	1,969	29.4	30.6	20.4	20.3
5,001 to 10,000	50	102	69	44	1,078	2,085	2,570	1,215	46.8	49.1	26.8	36.1
10,001 to 25,000	83	134	93	80	2,115	2,462	2,442	1,585	39.4	54.3	38.1	50.7
25,001 to 50,000	60	123	79	61	1,614	2,345	1,879	962	37.3	52.6	42.3	63.5
50,001 to 100,000	44	94	60	37	823	1,645	1,349	899	53.8	57.1	44.2	40.8
Over 100,000	153	175	122	79	1,860	2,003	1,632	1,128	82.5	87.2	75.1	69.9

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.

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

N=No responding cases in sample that use natural gas.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C26A. Natural Gas Expenditures by Census Region for All Buildings, 2003

	Total Natural Gas Expenditures (million dollars)				Natural Gas Expenditures (dollars)							
					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	3,883	5,215	4,356	2,557	8.66	7.16	8.53	7.31	0.38	0.37	0.29	0.29
Building Floorspace (Square Feet)												
1,001 to 5,000	489	788	632	318	9.87	8.58	9.30	7.95	0.89	0.73	0.69	0.51
5,001 to 10,000	358	485	632	356	9.16	7.67	9.14	7.69	0.54	0.46	0.44	0.44
10,001 to 25,000	576	1,060	760	500	9.85	7.97	9.40	7.10	0.45	0.40	0.33	0.32
25,001 to 50,000	440	798	459	357	9.23	6.54	8.75	7.43	0.42	0.33	0.26	0.26
50,001 to 100,000	602	693	582	263	9.16	7.06	8.57	7.14	0.33	0.34	0.23	0.23
100,001 to 200,000	488	634	650	192	7.09	6.84	Q	6.76	0.27	0.32	0.24	0.18
200,001 to 500,000	457	442	319	179	7.64	6.05	7.26	6.47	0.29	0.25	0.21	0.18
Over 500,000	472	315	323	Q	8.01	5.84	6.22	7.53	0.35	0.26	0.16	0.30
Principal Building Activity												
Education	412	740	397	339	8.02	6.55	8.42	7.01	0.31	0.34	0.17	0.28
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	Q	355	747	Q	Q	7.04	8.61	Q	Q	0.94	1.20	Q
Health Care	310	381	630	217	6.62	5.98	7.23	5.79	0.67	0.58	0.64	0.50
Inpatient	255	279	565	143	6.19	5.55	7.05	5.36	0.73	0.71	0.69	0.58
Outpatient	Q	103	Q	Q	Q	7.60	Q	Q	Q	0.39	Q	Q
Lodging	295	419	447	Q	8.44	6.34	8.12	8.06	Q	0.41	0.33	0.46
Mercantile	471	645	702	386	9.56	7.88	9.48	7.63	0.34	0.39	0.23	0.22
Retail (Other Than Mall)	141	274	212	91	8.69	7.38	9.06	7.73	0.37	0.40	0.18	0.14
Enclosed and Strip Malls	329	371	490	295	9.99	8.31	9.67	7.60	0.34	0.38	0.25	0.27
Office	827	826	287	261	9.27	7.97	8.71	7.34	0.36	0.34	0.15	0.17
Public Assembly	142	315	188	129	9.11	7.26	8.39	7.36	Q	0.41	0.27	0.24
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	142	285	176	61	9.61	7.66	8.80	7.95	0.37	0.32	0.19	0.14
Service	Q	438	260	Q	Q	7.66	9.16	Q	Q	0.47	0.32	Q
Warehouse and Storage	234	399	187	Q	9.19	6.50	9.57	7.07	0.24	0.21	0.12	0.16
Other	355	Q	Q	Q	7.81	Q	Q	Q	0.67	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed												
Before 1920	393	502	Q	Q	9.38	7.58	Q	Q	0.41	0.43	Q	Q
1920 to 1945	804	582	208	140	8.91	6.23	9.14	7.56	0.42	0.43	0.26	0.19
1946 to 1959	442	658	403	165	7.76	7.51	Q	6.85	0.30	0.38	0.40	0.26
1960 to 1969	565	705	457	337	8.91	6.93	8.32	7.08	0.41	0.35	0.29	0.29
1970 to 1979	559	1,056	625	636	8.75	6.89	7.72	6.95	0.42	0.35	0.23	0.36
1980 to 1989	435	678	946	626	9.18	7.64	8.61	7.59	0.35	0.42	0.30	0.34
1990 to 1999	395	724	1,192	411	7.91	7.26	8.99	7.87	0.35	0.32	0.28	0.25
2000 to 2003	291	309	377	148	8.42	8.35	8.56	7.19	0.39	0.32	0.25	0.17
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	Q	1,924	N	867	8.11	7.72	N	6.26	0.41	0.41	N	0.34
5,500-7,000 HDD	1,791	3,048	N	577	8.65	7.00	N	7.95	0.43	0.35	N	0.44
4,000-5,499 HDD	1,553	243	1,088	105	8.89	5.56	8.85	6.99	0.33	0.29	0.36	0.23
Fewer than 4,000 HDD	N	N	2,330	888	N	N	8.65	8.21	N	N	0.31	0.21
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	939	120	N	N	7.92	7.76	N	N	0.20	0.29
Number of Establishments												
One	2,391	3,580	3,100	1,879	8.32	7.06	8.48	7.29	0.42	0.38	0.31	0.34
2 to 5	738	1,088	669	343	9.37	7.50	8.63	7.32	0.35	0.40	0.28	0.23
6 to 10	297	192	Q	126	9.41	7.38	Q	7.57	0.44	0.33	Q	0.26
11 to 20	Q	163	204	Q	Q	7.53	8.48	Q	Q	0.39	0.24	Q
More than 20	Q	Q	207	Q	Q	Q	8.44	Q	Q	Q	0.14	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

Table C26A. Natural Gas Expenditures by Census Region for All Buildings, 2003

	Total Natural Gas Expenditures (million dollars)				Natural Gas Expenditures (dollars)							
					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	3,883	5,215	4,356	2,557	8.66	7.16	8.53	7.31	0.38	0.37	0.29	0.29
Energy Sources (more than one may apply)												
Electricity	3,883	5,214	4,356	2,557	8.66	7.16	8.53	7.31	0.38	0.37	0.29	0.29
Natural Gas	3,883	5,215	4,356	2,557	8.66	7.16	8.53	7.31	0.38	0.37	0.29	0.29
Fuel Oil	1,210	850	1,037	579	7.90	6.17	7.57	7.32	0.30	0.39	0.31	0.34
District Heat	113	Q	107	Q	7.33	6.43	7.92	Q	0.14	0.14	0.13	Q
Energy End Uses (more than one may apply)												
Buildings with Space Heating	3,862	5,205	4,338	2,416	8.66	7.16	8.52	7.26	0.38	0.37	0.29	0.28
Buildings with Cooling	3,624	4,838	4,289	2,391	8.71	7.11	8.52	7.30	0.38	0.37	0.29	0.29
Buildings with Water Heating	3,759	5,041	4,171	2,483	8.64	7.14	8.46	7.31	0.39	0.38	0.29	0.30
Annual Consumption (hundred cubic feet)												
1,000 or Less	57	116	146	98	13.78	10.34	12.61	10.83	Q	0.17	0.09	0.09
1,001 to 5,000	548	771	748	317	10.47	8.67	9.85	7.90	0.31	0.27	0.20	0.16
5,001 to 10,000	502	822	633	333	9.95	8.03	9.19	7.60	0.47	0.39	0.25	0.27
10,001 to 25,000	764	1,003	807	575	9.16	7.51	8.68	7.16	0.36	0.41	0.33	0.36
25,001 to 50,000	491	919	675	439	8.15	7.45	8.50	7.20	0.30	0.39	0.36	0.46
50,001 to 100,000	373	526	486	249	8.44	5.60	8.16	6.81	0.45	0.32	0.36	0.28
Over 100,000	1,147	1,058	860	545	7.48	6.05	7.02	6.92	0.62	0.53	0.53	0.48

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.

Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use natural gas.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C27A. Natural Gas Consumption and Conditional Energy Intensity by Census Division for All Buildings, 2003: Part 1

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings	85	364	550	1,861	8,301	10,356	45.4	43.8	53.1
Building Floorspace (Square Feet)									
1,001 to 5,000	Q	42	69	Q	427	741	Q	98.4	92.9
5,001 to 10,000	Q	32	49	Q	518	743	Q	62.1	65.5
10,001 to 25,000	Q	47	102	Q	952	1,860	Q	49.7	54.6
25,001 to 50,000	Q	42	78	Q	900	1,567	Q	47.1	49.6
50,001 to 100,000	Q	49	77	Q	1,421	1,611	Q	34.4	47.7
100,001 to 200,000	Q	44	73	Q	1,531	1,454	Q	28.4	50.4
200,001 to 500,000	Q	55	58	Q	1,484	1,323	Q	37.3	43.5
Over 500,000	Q	52	45	Q	1,068	1,056	Q	48.6	43.0
Principal Building Activity									
Education	Q	49	99	Q	1,247	1,804	Q	39.5	54.6
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	Q	Q	35	Q	Q	228	Q	Q	152.9
Health Care	Q	41	49	Q	396	484	Q	103.8	100.6
Inpatient	Q	37	38	Q	306	287	Q	120.3	131.2
Outpatient	Q	Q	Q	Q	Q	Q	Q	Q	Q
Lodging	Q	Q	39	Q	Q	507	Q	Q	77.5
Mercantile	Q	34	66	Q	854	1,271	Q	39.8	52.3
Retail (Other Than Mall)	Q	13	29	Q	269	485	Q	48.2	59.2
Enclosed and Strip Malls	Q	Q	38	Q	Q	787	Q	Q	48.0
Office	Q	72	84	Q	1,887	1,929	Q	38.2	43.7
Public Assembly	Q	12	35	Q	602	550	Q	Q	64.2
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	Q	Q	29	Q	Q	624	Q	Q	46.3
Service	Q	Q	44	Q	Q	723	Q	Q	61.5
Warehouse and Storage	Q	24	34	Q	913	1,259	Q	26.0	26.7
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	Q	30	48	Q	704	819	Q	43.0	58.0
1920 to 1945	Q	74	65	Q	1,609	959	Q	45.7	68.2
1946 to 1959	Q	52	69	Q	1,277	1,425	Q	40.8	48.7
1960 to 1969	Q	55	75	Q	1,171	1,403	Q	46.8	53.6
1970 to 1979	Q	54	124	Q	1,174	2,182	Q	46.2	56.7
1980 to 1989	Q	35	73	Q	964	1,325	Q	36.0	55.3
1990 to 1999	Q	38	67	Q	982	1,509	Q	38.8	44.1
2000 to 2003	Q	Q	29	Q	Q	733	Q	Q	39.4
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	Q	Q	160	Q	Q	2,807	Q	51.6	56.9
5,500-7,000 HDD	84	123	390	1,848	2,339	7,549	45.7	52.4	51.7
4,000-5,499 HDD	N	175	N	N	4,676	N	N	37.4	N
Fewer than 4,000 HDD	N	N	N	N	N	N	N	N	N
2,000 CDD or More and --									
Fewer than 4,000 HDD	N	N	N	N	N	N	N	N	N

Table C27A. Natural Gas Consumption and Conditional Energy Intensity by Census Division for All Buildings, 2003: Part 1

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings	85	364	550	1,861	8,301	10,356	45.4	43.8	53.1
Number of Establishments									
One	45	243	386	826	4,915	6,833	54.0	49.4	56.5
2 to 5	Q	56	105	Q	1,651	1,957	Q	33.7	53.9
6 to 10	Q	21	17	Q	475	353	Q	44.4	48.3
11 to 20	Q	Q	21	Q	Q	398	Q	Q	52.9
More than 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied	N	Q	Q	N	Q	Q	N	Q	Q
Energy Sources (more than one may apply)									
Electricity	85	364	550	1,861	8,301	10,355	45.4	43.8	53.1
Natural Gas	85	364	550	1,861	8,301	10,356	45.4	43.8	53.1
Fuel Oil	Q	128	96	Q	3,368	1,494	Q	38.1	64.2
District Heat	Q	Q	Q	Q	482	Q	Q	20.1	Q
Energy End Uses (more than one may apply)									
Buildings with Space Heating	85	361	549	1,861	8,285	10,326	45.4	43.6	53.1
Buildings with Cooling	80	336	510	1,709	7,812	9,475	46.8	43.0	53.9
Buildings with Water Heating	80	355	535	1,767	7,972	9,851	45.4	44.5	54.3
Annual Consumption (hundred cubic feet)									
1,000 or Less	Q	3	7	Q	Q	425	Q	Q	16.4
1,001 to 5,000	13	39	61	401	1,376	2,029	32.3	28.6	29.8
5,001 to 10,000	Q	41	77	Q	864	1,517	Q	47.2	50.7
10,001 to 25,000	Q	73	99	Q	1,757	1,753	Q	41.4	56.5
25,001 to 50,000	Q	54	95	Q	1,369	1,799	Q	39.7	52.9
50,001 to 100,000	Q	32	61	Q	646	1,092	Q	49.6	55.6
Over 100,000	Q	121	151	Q	1,562	1,740	Q	77.8	86.6

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use natural gas.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C28A. Natural Gas Consumption and Conditional Energy Intensity by Census Division for All Buildings, 2003: Part 2

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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	178	238	104	3,788	7,286	2,521	47.0	32.7	41.3
Building Floorspace (Square Feet)									
1,001 to 5,000	23	27	11	346	360	218	66.6	75.8	51.9
5,001 to 10,000	14	36	Q	321	662	Q	45.1	53.8	Q
10,001 to 25,000	31	33	Q	796	1,102	604	39.5	29.9	Q
25,001 to 50,000	44	21	13	840	834	410	52.6	25.3	Q
50,001 to 100,000	Q	32	15	Q	971	523	Q	33.3	28.8
100,001 to 200,000	19	Q	Q	512	1,447	Q	37.8	30.2	Q
200,001 to 500,000	Q	25	Q	Q	862	Q	Q	29.3	Q
Over 500,000	Q	20	Q	Q	Q	Q	Q	19.3	Q
Principal Building Activity									
Education	14	25	Q	380	1,274	Q	38.1	19.6	Q
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	Q	42	Q	Q	339	Q	Q	123.8	Q
Health Care	Q	Q	17	Q	508	196	Q	87.5	86.2
Inpatient	Q	Q	Q	Q	Q	Q	Q	Q	Q
Outpatient	Q	Q	Q	Q	Q	Q	Q	Q	Q
Lodging	27	25	Q	508	630	Q	52.6	39.9	Q
Mercantile	Q	38	Q	Q	1,425	Q	Q	26.5	Q
Retail (Other Than Mall)	Q	9	Q	Q	465	Q	Q	20.4	Q
Enclosed and Strip Malls	Q	28	Q	Q	960	Q	Q	29.4	Q
Office	19	12	Q	518	821	321	37.4	14.7	28.5
Public Assembly	Q	Q	Q	Q	Q	Q	Q	Q	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	Q	Q	Q	Q	Q	Q	Q	Q	Q
Service	13	Q	Q	211	Q	Q	60.7	Q	Q
Warehouse and Storage	Q	Q	Q	662	Q	Q	41.8	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	Q	Q	Q	Q	Q	Q	Q	Q	Q
1920 to 1945	Q	Q	Q	385	Q	Q	73.1	Q	Q
1946 to 1959	18	Q	Q	321	512	Q	56.7	Q	Q
1960 to 1969	27	24	Q	620	656	Q	42.8	36.7	Q
1970 to 1979	30	25	23	836	904	510	35.5	27.5	45.1
1980 to 1989	Q	45	Q	Q	1,360	420	Q	33.3	65.5
1990 to 1999	33	73	18	753	2,511	670	44.0	29.1	26.7
2000 to 2003	Q	23	Q	Q	842	Q	Q	26.8	Q
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	89	N	N	1,859	N	N	48.1	N	N
5,500-7,000 HDD	45	N	N	Q	N	N	Q	N	N
4,000-5,499 HDD	44	71	Q	846	2,047	Q	51.7	34.5	Q
Fewer than 4,000 HDD	N	143	Q	N	4,089	Q	N	35.0	33.5
2,000 CDD or More and --									
Fewer than 4,000 HDD	N	Q	Q	N	Q	Q	N	21.4	42.7

Table C28A. Natural Gas Consumption and Conditional Energy Intensity by Census Division for All Buildings, 2003: Part 2

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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	178	238	104	3,788	7,286	2,521	47.0	32.7	41.3
Number of Establishments									
One	121	172	83	2,582	4,735	1,810	47.0	36.4	45.7
2 to 5	40	31	Q	771	1,169	Q	51.5	26.5	Q
6 to 10	Q	Q	Q	Q	Q	Q	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)									
Electricity	178	238	104	3,788	7,286	2,521	47.0	32.7	41.3
Natural Gas	178	238	104	3,788	7,286	2,521	47.0	32.7	41.3
Fuel Oil	42	78	Q	706	1,871	Q	59.1	41.6	Q
District Heat	Q	Q	Q	Q	526	Q	Q	Q	Q
Energy End Uses (more than one may apply)									
Buildings with Space Heating	178	237	104	3,786	7,167	2,495	47.0	33.1	41.7
Buildings with Cooling	170	234	103	3,562	7,189	2,494	47.7	32.5	41.3
Buildings with Water Heating	171	232	101	3,529	7,006	2,392	48.6	33.1	42.3
Annual Consumption (hundred cubic feet)									
1,000 or Less	4	5	2	272	649	235	15.7	8.1	9.2
1,001 to 5,000	28	35	19	877	1,593	879	32.3	22.1	21.9
5,001 to 10,000	25	32	Q	568	1,265	Q	44.9	25.0	Q
10,001 to 25,000	34	44	17	709	1,219	503	48.7	36.1	34.4
25,001 to 50,000	28	38	Q	546	1,051	Q	51.8	36.4	Q
50,001 to 100,000	Q	Q	Q	Q	Q	Q	Q	Q	Q
Over 100,000	Q	63	Q	Q	852	Q	Q	73.8	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use natural gas.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C29A. Natural Gas Consumption and Conditional Energy Intensity by Census Division for All Buildings, 2003: Part 3

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings	168	185	165	5,453	3,263	5,644	30.9	56.6	29.2
Building Floorspace (Square Feet)									
1,001 to 5,000	29	18	Q	334	266	363	87.9	68.5	60.2
5,001 to 10,000	25	Q	Q	545	291	514	45.6	62.7	54.4
10,001 to 25,000	20	45	26	626	699	844	32.1	63.9	30.6
25,001 to 50,000	18	25	23	552	521	831	32.8	48.4	27.4
50,001 to 100,000	21	Q	21	992	Q	821	20.7	Q	25.9
100,001 to 200,000	20	Q	15	958	Q	754	21.4	Q	19.3
200,001 to 500,000	Q	Q	14	502	Q	687	21.0	Q	20.6
Over 500,000	Q	Q	Q	Q	Q	Q	Q	Q	Q
Principal Building Activity									
Education	16	21	28	797	420	802	20.6	48.8	34.8
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	37	Q	Q	211	Q	Q	175.7	Q	Q
Health Care	26	19	19	282	162	274	91.4	115.5	68.7
Inpatient	23	Q	Q	235	Q	Q	96.0	Q	Q
Outpatient	Q	Q	Q	Q	Q	Q	Q	Q	Q
Lodging	Q	Q	16	Q	Q	515	Q	Q	31.5
Mercantile	24	29	21	1,185	656	1,083	20.3	44.7	19.7
Retail (Other Than Mall)	7	Q	5	436	Q	455	16.2	Q	11.4
Enclosed and Strip Malls	17	Q	Q	750	Q	Q	22.7	Q	Q
Office	12	19	17	Q	379	1,165	15.2	50.0	14.2
Public Assembly	Q	Q	Q	Q	Q	Q	Q	Q	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	Q	Q	Q	336	Q	Q	19.4	Q	Q
Service	Q	Q	Q	Q	Q	Q	Q	Q	Q
Warehouse and Storage	Q	Q	Q	614	Q	Q	11.3	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	Q	Q	Q	Q	Q	Q	Q	Q	Q
1920 to 1945	8	Q	13	271	Q	601	29.9	Q	21.4
1946 to 1959	14	Q	16	380	Q	495	37.2	Q	31.7
1960 to 1969	14	29	19	574	464	713	25.2	62.4	26.1
1970 to 1979	33	61	30	1,276	897	863	25.9	68.4	34.9
1980 to 1989	37	41	41	1,327	562	1,300	27.9	73.3	31.8
1990 to 1999	42	20	32	1,022	548	1,076	40.7	36.6	29.9
2000 to 2003	14	Q	10	477	Q	481	29.9	Q	20.1
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	N	116	Q	N	2,019	Q	N	57.4	44.6
5,500-7,000 HDD	N	60	13	N	919	383	N	64.9	33.7
4,000-5,499 HDD	Q	N	15	Q	N	456	Q	N	33.0
Fewer than 4,000 HDD	77	N	108	2,020	N	4,219	38.1	N	25.6
2,000 CDD or More and --									
Fewer than 4,000 HDD	80	9	Q	3,205	325	Q	24.9	27.9	Q

Table C29A. Natural Gas Consumption and Conditional Energy Intensity by Census Division for All Buildings, 2003: Part 3

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings	168	185	165	5,453	3,263	5,644	30.9	56.6	29.2
Number of Establishments									
One	110	141	117	3,306	2,214	3,299	33.4	63.5	35.5
2 to 5	34	20	27	870	470	1,029	39.0	42.8	26.0
6 to 10	Q	Q	Q	Q	Q	Q	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)									
Electricity	168	185	165	5,448	3,263	5,644	30.9	56.6	29.2
Natural Gas	168	185	165	5,453	3,263	5,644	30.9	56.6	29.2
Fuel Oil	36	Q	38	Q	476	1,215	29.7	86.7	31.2
District Heat	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy End Uses (more than one may apply)									
Buildings with Space Heating	168	182	151	5,349	3,168	5,366	31.3	57.5	28.1
Buildings with Cooling	167	178	150	5,358	3,091	5,166	31.1	57.5	29.0
Buildings with Water Heating	160	181	159	5,010	3,123	5,237	31.9	58.1	30.3
Annual Consumption (hundred cubic feet)									
1,000 or Less	4	Q	7	773	Q	930	5.4	Q	7.1
1,001 to 5,000	22	20	20	1,260	617	1,352	17.1	32.9	14.6
5,001 to 10,000	26	23	21	986	427	788	26.2	53.9	26.4
10,001 to 25,000	32	Q	41	720	Q	1,057	44.0	73.7	39.1
25,001 to 50,000	36	28	33	660	533	428	55.1	53.0	76.4
50,001 to 100,000	Q	Q	Q	Q	Q	Q	Q	Q	Q
Over 100,000	33	51	28	498	603	524	66.1	84.5	53.0

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use natural gas.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C30A. Natural Gas Consumption and Conditional Energy Intensity by Climate Zone[a] for All Buildings, 2003

	Total Natural Gas Consumption (billion cubic feet)					Total Floorspace of Buildings Using Natural Gas (million square feet)					Natural Gas Energy Intensity (cubic feet/square foot)				
	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	454	715	356	378	134	8,486	14,122	8,970	11,796	5,098	53.5	50.6	39.7	32.0	26.3
Building Floorspace (Square Feet)															
1,001 to 5,000	57	84	35	58	16	666	1,015	427	832	234	84.8	83.1	81.9	69.6	66.6
5,001 to 10,000	50	57	33	61	17	666	1,030	639	1,243	392	75.2	54.9	51.2	49.2	44.0
10,001 to 25,000	98	121	53	55	15	1,831	2,415	1,024	1,994	561	53.7	50.1	52.1	27.5	27.4
25,001 to 50,000	61	95	56	39	19	1,340	1,963	1,138	1,662	501	45.7	48.3	49.5	23.3	37.8
50,001 to 100,000	64	97	47	45	16	1,217	2,300	1,453	1,744	786	52.3	42.2	32.7	25.9	19.8
100,001 to 200,000	38	123	34	Q	12	1,075	2,316	1,431	1,833	889	35.6	53.0	23.5	32.8	13.5
200,001 to 500,000	55	62	40	31	16	1,036	1,517	1,439	1,186	714	52.8	41.1	27.6	26.5	22.6
Over 500,000	Q	76	58	28	Q	Q	1,566	1,419	1,301	Q	Q	48.4	41.2	21.7	Q
Principal Building Activity															
Education	65	113	26	48	9	1,227	2,281	968	1,700	869	53.0	49.4	26.4	28.2	10.1
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	27	49	Q	64	31	174	368	Q	393	277	154.3	134.4	Q	161.9	110.9
Health Care	38	69	36	64	29	383	665	454	720	323	98.4	103.5	78.3	89.5	89.4
Inpatient	27	56	30	59	26	237	414	302	589	264	114.1	136.3	99.9	99.4	98.8
Outpatient	Q	12	Q	Q	Q	Q	251	Q	Q	Q	Q	49.4	Q	Q	Q
Lodging	34	86	36	34	18	609	1,183	958	967	538	55.5	72.8	Q	35.3	32.8
Mercantile	63	83	46	46	17	1,433	1,867	1,308	2,219	1,044	43.8	44.6	35.3	20.9	16.6
Retail (Other Than Mall)	27	27	16	16	Q	593	595	451	931	Q	46.1	45.8	36.1	17.0	Q
Enclosed and Strip Malls	35	56	30	30	Q	840	1,272	857	1,287	Q	42.2	44.1	34.9	23.7	Q
Office	60	106	60	22	14	1,252	2,575	1,977	1,539	865	48.0	41.0	30.1	14.4	16.1
Public Assembly	32	30	Q	25	Q	639	537	Q	700	Q	49.7	55.0	Q	35.4	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	14	38	14	13	Q	277	973	412	774	Q	49.2	38.9	32.8	16.5	Q
Service	49	37	18	23	Q	697	717	422	511	Q	70.9	52.1	Q	44.8	Q
Warehouse and Storage	33	44	33	16	Q	963	1,672	1,071	1,463	Q	34.5	26.4	30.7	11.2	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed															
Before 1920	55	46	25	Q	Q	832	1,048	599	Q	Q	66.4	43.6	41.9	Q	Q
1920 to 1945	49	72	77	18	Q	764	1,345	1,588	842	Q	64.8	53.3	48.5	21.2	Q
1946 to 1959	38	100	30	44	Q	660	1,894	1,058	993	Q	56.9	52.7	28.2	43.9	Q
1960 to 1969	62	106	39	42	19	1,047	2,021	1,128	1,351	593	59.2	52.4	34.3	31.1	32.2
1970 to 1979	112	139	50	64	25	1,993	2,530	1,400	1,859	1,013	56.0	55.0	36.0	34.3	24.7
1980 to 1989	46	125	54	80	23	762	2,210	1,265	2,542	1,049	60.0	56.7	43.1	31.4	22.1
1990 to 1999	69	87	51	93	34	1,735	1,988	1,202	3,012	1,267	40.0	43.8	42.4	30.9	26.9
2000 to 2003	23	40	Q	28	15	693	1,086	729	990	601	33.3	37.0	41.0	28.1	25.3
Census Region and Division															
Northeast	Q	207	175	N	N	Q	4,188	4,676	N	N	51.1	49.4	37.4	N	N
New England	Q	84	N	N	N	Q	1,848	N	N	N	Q	45.7	N	N	N
Middle Atlantic	Q	123	175	N	N	Q	2,339	4,676	N	N	51.6	52.4	37.4	N	N
Midwest	249	435	44	N	N	4,665	8,633	846	N	N	53.4	50.4	51.7	N	N
East North Central	160	390	N	N	N	2,807	7,549	N	N	N	56.9	51.7	N	N	N
West North Central	89	45	44	N	N	1,859	Q	846	N	N	48.1	Q	51.7	N	N
South	N	N	123	269	119	N	N	2,992	7,577	4,690	N	N	41.1	35.6	25.3
South Atlantic	N	N	71	143	Q	N	N	2,047	4,089	Q	N	N	34.5	35.0	21.4
East South Central	N	N	Q	Q	Q	N	N	Q	Q	Q	N	N	Q	33.5	42.7
West South Central	N	N	Q	77	80	N	N	Q	2,020	3,205	N	N	Q	38.1	24.9
West	138	73	15	108	15	2,521	1,302	456	4,219	408	54.9	55.8	33.0	25.6	37.8
Mountain	116	60	N	N	9	2,019	919	N	N	325	57.4	64.9	N	N	27.9
Pacific	Q	13	15	108	Q	Q	383	456	4,219	Q	44.6	33.7	33.0	25.6	76.8

Table C30A. Natural Gas Consumption and Conditional Energy Intensity by Climate Zone[a] for All Buildings, 2003

	Total Natural Gas Consumption (billion cubic feet)					Total Floorspace of Buildings Using Natural Gas (million square feet)					Natural Gas Energy Intensity (cubic feet/square foot)				
	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	454	715	356	378	134	8,486	14,122	8,970	11,796	5,098	53.5	50.6	39.7	32.0	26.3
Number of Establishments															
One	300	501	247	289	80	5,184	9,094	5,555	7,980	2,706	58.0	55.1	44.4	36.2	29.7
2 to 5	109	123	42	50	25	2,065	2,506	1,525	1,938	683	52.7	48.9	27.3	25.9	36.8
6 to 10	22	39	13	Q	Q	537	708	388	Q	Q	40.3	55.3	33.6	Q	Q
11 to 20	Q	23	Q	Q	Q	Q	551	Q	524	Q	Q	41.6	Q	29.7	Q
More than 20	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)															
Electricity	454	715	356	378	134	8,484	14,122	8,970	11,796	5,093	53.5	50.6	39.7	32.0	26.3
Natural Gas	454	715	356	378	134	8,486	14,122	8,970	11,796	5,098	53.5	50.6	39.7	32.0	26.3
Fuel Oil	85	161	131	95	36	1,381	2,636	3,788	2,045	1,447	61.5	61.0	34.5	46.3	24.8
District Heat	Q	Q	Q	Q	Q	347	922	593	Q	Q	Q	20.0	Q	Q	Q
Energy End Uses (more than one may apply)															
Buildings with Space Heating	453	713	354	363	131	8,481	14,066	8,965	11,479	4,812	53.4	50.7	39.5	31.6	27.3
Buildings with Cooling	427	666	340	361	133	7,899	12,870	8,760	11,258	5,069	54.0	51.7	38.8	32.1	26.2
Buildings with Water Heating	445	686	350	363	130	8,088	13,297	8,725	10,993	4,782	55.1	51.6	40.1	33.0	27.2
Annual Consumption (hundred cubic feet)															
1,000 or Less	7	9	4	13	3	512	715	868	1,578	726	13.5	13.0	Q	8.3	3.6
1,001 to 5,000	52	90	38	63	14	1,645	2,866	1,538	3,327	1,008	31.4	31.6	25.0	18.9	13.6
5,001 to 10,000	68	91	42	45	20	1,246	1,897	1,035	1,691	1,079	54.2	48.0	40.2	26.9	18.2
10,001 to 25,000	105	124	60	71	30	1,699	2,594	1,750	1,815	746	61.9	47.7	34.3	39.4	40.1
25,001 to 50,000	79	102	54	69	20	1,323	2,194	1,475	1,174	635	60.0	46.4	36.7	58.5	31.4
50,001 to 100,000	46	84	60	Q	Q	787	1,499	899	Q	Q	58.6	56.1	66.8	Q	Q
Over 100,000	97	214	98	83	37	1,275	2,358	1,404	1,022	564	76.2	90.8	69.8	81.2	65.8

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.

a Climate zone (30-year average) definitions: Zone 1 = Under 2,000 CDD and more than 7,000 HDD; Zone 2 = Under 2,000 CDD and 5,500-7,000 HDD; Zone 3 = Under 2,000 CDD and 4,000-5,499 HDD; Zone 4 = Under 2,000 CDD and fewer than 4,000 HDD; Zone 5 = 2,000 CDD or more and fewer than 4,000 HDD. (See "Glossary" for definitions of CDD and HDD.)

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

N=No responding cases in sample that use natural gas.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C31A. Natural Gas Consumption and Conditional Energy Intensity by Building Size for All Buildings, 2003

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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	467	882	688	7,144	21,928	19,401	65.4	40.2	35.5
Principal Building Activity									
Education	Q	137	101	419	3,629	2,997	53.9	37.6	33.7
Food Sales	16	Q	Q	339	Q	Q	46.6	Q	Q
Food Service	149	48	N	774	622	N	192.5	77.2	N
Health Care	12	37	187	233	520	1,792	49.5	70.8	104.4
Inpatient	N	Q	181	N	Q	1,662	N	Q	109.0
Outpatient	12	20	Q	233	377	Q	49.5	52.3	Q
Lodging	Q	83	113	Q	1,750	2,374	Q	47.6	47.4
Mercantile	60	134	61	1,094	3,572	3,205	55.2	37.6	19.1
Retail (Other Than Mall)	38	39	12	726	1,406	734	52.7	27.7	15.7
Enclosed and Strip Malls	22	95	50	367	2,167	2,471	60.0	44.0	20.1
Office	59	115	87	1,400	3,138	3,670	42.4	36.7	23.7
Public Assembly	19	54	26	464	1,259	1,000	41.5	42.9	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	28	49	Q	663	1,785	Q	42.7	27.7	Q
Service	55	71	Q	783	1,394	Q	69.8	50.7	Q
Warehouse and Storage	18	66	45	522	2,538	2,434	34.2	26.0	18.4
Other	Q	42	38	Q	458	681	Q	91.1	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	32	76	31	575	1,541	658	56.3	49.2	47.1
1920 to 1945	61	93	71	993	2,007	1,776	61.9	46.2	39.9
1946 to 1959	49	97	70	830	2,471	1,556	59.0	39.4	44.9
1960 to 1969	48	137	82	891	3,200	2,049	53.6	43.0	40.2
1970 to 1979	91	144	154	1,342	3,624	3,829	67.7	39.8	40.4
1980 to 1989	65	139	124	970	3,203	3,654	67.3	43.3	34.0
1990 to 1999	100	140	94	1,251	4,198	3,756	80.1	33.4	25.0
2000 to 2003	20	55	61	291	1,684	2,124	69.3	32.6	28.8
Census Region and Division									
Northeast	89	172	188	1,208	4,183	4,771	73.4	41.1	39.3
New England	Q	33	Q	Q	910	Q	Q	36.5	Q
Middle Atlantic	74	139	151	945	3,273	4,083	78.5	42.4	36.9
Midwest	155	353	220	2,151	7,072	4,922	72.1	49.9	44.7
East North Central	118	256	176	1,484	5,038	3,834	79.2	50.8	46.0
West North Central	37	97	44	666	2,034	1,088	56.3	47.7	40.0
South	137	201	173	2,351	6,615	6,294	58.3	30.4	27.4
South Atlantic	63	86	89	1,022	2,907	3,357	61.5	29.7	26.6
East South Central	20	56	28	449	1,537	534	44.5	36.5	52.4
West South Central	54	59	55	880	2,171	2,403	61.7	27.1	23.0
West	86	155	108	1,435	4,057	3,415	60.2	38.3	31.6
Mountain	36	85	63	558	1,563	1,143	65.5	54.7	54.9
Pacific	50	70	45	877	2,495	2,272	56.8	28.0	19.9
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	107	223	124	1,332	4,387	2,766	80.0	50.9	44.9
5,500-7,000 HDD	141	313	261	2,045	6,677	5,399	68.9	46.8	48.3
4,000-5,499 HDD	68	157	132	1,066	3,615	4,290	63.5	43.5	30.7
Fewer than 4,000 HDD	119	139	120	2,075	5,400	4,321	57.4	25.7	27.7
2,000 CDD or More and --									
Fewer than 4,000 HDD	33	50	51	625	1,848	2,625	52.4	27.0	19.6

Table C31A. Natural Gas Consumption and Conditional Energy Intensity by Building Size for All Buildings, 2003

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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	467	882	688	7,144	21,928	19,401	65.4	40.2	35.5
Number of Establishments									
One	384	604	430	5,549	14,298	10,672	69.2	42.2	40.3
2 to 5	71	168	109	1,349	4,576	2,790	52.6	36.7	39.2
6 to 10	Q	60	23	Q	1,411	836	Q	42.9	27.9
11 to 20	N	32	35	N	972	1,251	N	33.2	27.9
More than 20	Q	Q	82	Q	Q	3,416	Q	Q	23.9
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)									
Electricity	467	882	688	7,142	21,928	19,396	65.4	40.2	35.5
Natural Gas	467	882	688	7,144	21,928	19,401	65.4	40.2	35.5
Fuel Oil	Q	102	394	Q	2,243	8,778	Q	45.6	44.9
District Heat	Q	Q	41	Q	Q	2,088	Q	Q	19.4
Energy End Uses (more than one may apply)									
Buildings with Space Heating	452	876	686	6,984	21,670	19,150	64.7	40.4	35.8
Buildings with Cooling	421	838	668	6,439	20,485	18,932	65.4	40.9	35.3
Buildings with Water Heating	443	849	682	6,315	20,557	19,013	70.2	41.3	35.9
Annual Consumption (hundred cubic feet)									
1,000 or Less	33	3	Q	2,102	1,299	997	15.7	2.1	0.2
1,001 to 5,000	178	78	2	3,754	5,464	1,166	47.3	14.3	1.3
5,001 to 10,000	115	146	5	783	4,848	1,317	146.5	30.1	3.7
10,001 to 25,000	97	275	18	407	5,980	2,217	237.4	46.0	8.3
25,001 to 50,000	Q	217	62	Q	3,180	3,522	Q	68.3	17.5
50,001 to 100,000	N	118	117	N	962	3,753	N	122.4	31.1
Over 100,000	N	Q	485	N	Q	6,429	N	Q	75.4

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use natural gas.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C32A. Natural Gas Consumption and Conditional Energy Intensity by Year Constructed for All Buildings, 2003

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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	580	986	471	12,407	22,762	13,304	46.8	43.3	35.4
Building Floorspace (Square Feet)									
1,001 to 5,000	86	103	61	1,245	1,271	659	69.0	81.0	92.1
5,001 to 10,000	57	101	60	1,154	1,932	883	49.4	52.3	67.6
10,001 to 25,000	105	174	65	2,452	3,390	1,982	42.6	51.2	32.7
25,001 to 50,000	92	117	62	1,895	3,008	1,702	48.4	38.7	36.3
50,001 to 100,000	70	131	69	1,672	3,629	2,198	41.6	36.0	31.2
100,001 to 200,000	64	137	66	1,538	3,363	2,644	41.8	40.7	24.8
200,001 to 500,000	45	108	51	1,520	2,874	1,499	29.9	37.5	34.2
Over 500,000	62	117	38	933	3,294	1,737	66.4	35.4	22.0
Principal Building Activity									
Education	109	110	41	2,581	2,816	1,648	42.3	39.2	24.6
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	47	72	78	491	422	482	95.8	169.4	162.6
Health Care	66	131	39	633	1,410	501	104.1	92.6	77.5
Inpatient	58	112	28	444	1,141	220	130.2	98.3	128.2
Outpatient	Q	18	11	Q	269	282	Q	68.4	37.9
Lodging	38	129	41	Q	2,123	1,154	Q	61.0	35.7
Mercantile	43	142	71	984	4,028	2,859	43.6	35.3	24.7
Retail (Other Than Mall)	34	27	27	675	1,028	1,162	50.5	26.7	23.4
Enclosed and Strip Malls	Q	115	43	Q	2,999	1,696	Q	38.3	25.6
Office	91	129	42	2,109	4,459	1,640	43.0	29.0	25.3
Public Assembly	30	43	26	1,047	965	711	Q	45.0	36.4
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	37	29	14	1,086	943	600	33.7	31.2	22.7
Service	35	64	37	608	1,278	610	57.0	49.9	59.8
Warehouse and Storage	35	64	29	1,039	2,667	1,788	33.8	24.0	16.4
Other	Q	Q	29	Q	408	521	Q	75.7	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Census Region and Division									
Northeast	189	175	84	4,337	3,967	1,858	43.6	44.0	45.5
New England	33	31	Q	747	657	Q	44.4	47.1	Q
Middle Atlantic	156	144	64	3,590	3,309	1,402	43.4	43.4	45.7
Midwest	247	344	137	4,266	6,643	3,235	58.0	51.8	42.3
East North Central	182	272	95	3,204	4,911	2,242	56.9	55.4	42.6
West North Central	65	72	41	1,063	1,733	993	61.3	41.4	41.6
South	88	246	177	2,198	7,353	5,709	40.2	33.4	30.9
South Atlantic	Q	94	96	1,012	2,920	3,353	47.9	32.3	28.5
East South Central	12	67	25	409	1,256	856	29.4	53.3	29.3
West South Central	28	85	56	777	3,177	1,499	36.0	26.6	37.2
West	55	222	73	1,606	4,799	2,502	34.4	46.2	29.1
Mountain	22	131	31	395	1,923	946	56.4	68.4	32.7
Pacific	33	90	42	1,211	2,876	1,557	27.3	31.3	26.9
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	142	219	92	2,256	3,802	2,428	63.1	57.7	38.1
5,500-7,000 HDD	217	370	127	4,287	6,761	3,075	50.7	54.8	41.4
4,000-5,499 HDD	132	144	81	3,245	3,794	1,932	40.7	37.8	41.9
Fewer than 4,000 HDD	71	186	121	2,044	5,751	4,002	34.9	32.3	30.2
2,000 CDD or More and --									
Fewer than 4,000 HDD	17	67	49	576	2,654	1,868	30.3	25.4	26.4

Table C32A. Natural Gas Consumption and Conditional Energy Intensity by Year Constructed for All Buildings, 2003

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/square foot)		
	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	580	986	471	12,407	22,762	13,304	46.8	43.3	35.4
Number of Establishments									
One	421	670	327	8,689	13,334	8,496	48.4	50.3	38.5
2 to 5	102	158	88	2,291	4,006	2,419	44.6	39.5	36.3
6 to 10	17	52	24	417	1,255	726	40.4	41.4	32.6
11 to 20	Q	44	15	Q	1,221	609	Q	35.9	23.9
More than 20	Q	49	Q	Q	2,399	Q	Q	20.6	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)									
Electricity	580	986	471	12,400	22,762	13,304	46.8	43.3	35.4
Natural Gas	580	986	471	12,407	22,762	13,304	46.8	43.3	35.4
Fuel Oil	139	260	108	3,178	5,413	2,705	43.8	48.0	39.9
District Heat	Q	25	Q	667	1,135	Q	Q	22.3	Q
Energy End Uses (more than one may apply)									
Buildings with Space Heating	576	976	463	12,297	22,465	13,041	46.8	43.4	35.5
Buildings with Cooling	512	954	462	10,974	21,921	12,962	46.6	43.5	35.6
Buildings with Water Heating	554	960	460	11,329	21,766	12,791	48.9	44.1	35.9
Annual Consumption (hundred cubic feet)									
1,000 or Less	14	15	7	1,638	1,684	1,077	8.6	8.9	6.4
1,001 to 5,000	93	107	57	2,931	4,690	2,763	31.6	22.9	20.7
5,001 to 10,000	76	116	73	1,511	3,224	2,213	50.0	36.1	33.2
10,001 to 25,000	119	185	86	2,352	3,733	2,520	50.4	49.7	34.2
25,001 to 50,000	76	157	91	1,530	3,121	2,149	49.8	50.2	42.4
50,001 to 100,000	53	134	47	824	2,876	1,015	64.3	46.6	46.6
Over 100,000	150	271	109	1,622	3,434	1,567	92.6	78.8	69.3

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use natural gas.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C33A. Total Fuel Oil Consumption and Expenditures for All Buildings, 2003

	All Buildings Using Fuel Oil			Fuel Oil Consumption		Fuel Oil Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million gallons)	Total (million dollars)
All Buildings	465	16,265	35	228	1,644	1,826
Building Floorspace (Square Feet)						
1,001 to 5,000	211	606	3	34	249	292
5,001 to 10,000	102	736	7	36	262	307
10,001 to 25,000	66	1,043	16	28	201	238
25,001 to 50,000	24	895	38	17	124	134
50,001 to 100,000	25	1,852	76	29	209	229
100,001 to 200,000	21	3,004	140	37	270	279
200,001 to 500,000	12	3,425	294	36	258	272
Over 500,000	5	4,705	933	10	72	74
Principal Building Activity						
Education	26	1,864	70	47	342	362
Food Sales	Q	Q	Q	Q	Q	Q
Food Service	Q	Q	Q	Q	Q	Q
Health Care	13	1,882	143	11	76	79
Inpatient	7	1,683	240	9	65	67
Outpatient	Q	Q	Q	Q	Q	Q
Lodging	28	2,193	78	35	255	272
Mercantile	51	1,610	31	21	155	167
Retail (Other Than Mall)	37	501	14	Q	Q	117
Enclosed and Strip Malls	Q	Q	Q	Q	Q	Q
Office	65	4,075	62	18	126	149
Public Assembly	42	939	23	29	208	230
Public Order and Safety	23	620	27	8	57	Q
Religious Worship	38	453	12	18	130	Q
Service	93	626	7	Q	Q	Q
Warehouse and Storage	37	1,268	34	9	66	74
Other	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q
Year Constructed						
Before 1920	75	961	13	38	273	304
1920 to 1945	53	2,022	38	55	396	425
1946 to 1959	78	2,106	27	48	347	392
1960 to 1969	63	1,751	28	Q	Q	Q
1970 to 1979	61	2,389	39	23	164	185
1980 to 1989	67	3,433	51	12	87	103
1990 to 1999	50	2,290	45	9	65	72
2000 to 2003	18	1,313	74	Q	Q	Q
Census Region and Division						
Northeast	259	6,464	25	181	1,302	1,437
New England	124	1,781	14	74	531	592
Middle Atlantic	135	4,682	35	107	771	845
Midwest	76	2,909	38	24	172	178
East North Central	35	1,871	53	Q	Q	Q
West North Central	41	1,037	25	Q	Q	Q
South	93	4,663	50	15	107	130
South Atlantic	63	2,961	47	13	96	116
East South Central	15	341	23	1	7	Q
West South Central	15	1,361	94	1	5	6
West	37	2,230	60	9	64	82
Mountain	11	655	Q	Q	Q	Q
Pacific	27	1,575	59	4	29	Q

Table C33A. Total Fuel Oil Consumption and Expenditures for All Buildings, 2003

	All Buildings Using Fuel Oil			Fuel Oil Consumption		Fuel Oil Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million gallons)	Total (million dollars)
All Buildings	465	16,265	35	228	1,644	1,826
Climate Zone: 30-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	145	2,624	18	63	452	472
5,500-7,000 HDD	150	4,285	28	67	485	565
4,000-5,499 HDD	103	4,950	48	91	655	723
Fewer than 4,000 HDD	53	2,528	48	6	44	57
2,000 CDD or More and --						
Fewer than 4,000 HDD	13	1,878	140	1	7	8
Number of Establishments						
One	373	9,213	25	183	1,318	1,466
2 to 5	71	2,801	39	31	221	251
6 to 10	12	649	55	7	48	Q
11 to 20	5	1,184	257	Q	Q	Q
More than 20	4	2,342	570	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)						
Electricity	463	16,250	35	228	1,642	1,824
Natural Gas	143	11,296	79	101	727	794
Fuel Oil	465	16,265	35	228	1,644	1,826
District Heat	5	1,864	403	1	10	10
Energy End Uses (more than one may apply)						
Buildings with Space Heating	458	16,050	35	225	1,619	1,794
Buildings with Cooling	313	14,987	48	181	1,303	1,430
Buildings with Water Heating	391	15,668	40	218	1,575	1,732
Annual Consumption (gallons)						
1,000 or Less	263	9,047	34	14	98	129
1,001 to 5,000	142	3,083	22	45	323	399
5,001 to 10,000	31	938	30	29	210	249
10,001 to 25,000	15	991	66	31	221	235
Over 25,000	14	2,206	153	110	792	814

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use fuel oil.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C34A. Fuel Oil Consumption and Expenditure Intensities for All Buildings, 2003

	Fuel Oil Consumption		Fuel Oil Expenditures		
	per Building (gallons)	per Square Foot (gallons)	per Building (thousand dollars)	per Square Foot (dollars)	per Gallon (dollars)
All Buildings	3,533	0.10	3.9	0.11	1.11
Building Floorspace (Square Feet)					
1,001 to 5,000	1,177	0.41	1.4	0.48	1.18
5,001 to 10,000	2,573	0.36	3.0	0.42	1.17
10,001 to 25,000	3,045	0.19	3.6	0.23	1.18
25,001 to 50,000	5,184	0.14	5.6	0.15	1.09
50,001 to 100,000	8,508	0.11	9.3	0.12	1.10
100,001 to 200,000	12,639	0.09	13.1	0.09	1.03
200,001 to 500,000	22,181	0.08	23.4	0.08	1.05
Over 500,000	14,248	0.02	14.7	0.02	1.03
Principal Building Activity					
Education	12,911	0.18	13.7	0.19	1.06
Food Sales	Q	Q	Q	Q	Q
Food Service	Q	Q	Q	Q	Q
Health Care	5,755	0.04	6.0	0.04	1.05
Inpatient	9,252	0.04	9.6	0.04	1.04
Outpatient	Q	Q	Q	Q	Q
Lodging	9,024	0.12	9.6	0.12	1.07
Mercantile	3,013	Q	3.3	0.10	1.08
Retail (Other Than Mall)	3,084	Q	3.2	Q	1.04
Enclosed and Strip Malls	Q	Q	Q	Q	Q
Office	1,932	0.03	2.3	0.04	1.18
Public Assembly	4,990	0.22	5.5	0.24	1.10
Public Order and Safety	2,489	Q	Q	Q	Q
Religious Worship	3,431	0.29	Q	Q	Q
Service	Q	Q	1.8	0.27	1.17
Warehouse and Storage	1,779	0.05	2.0	0.06	1.12
Other	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q
Year Constructed					
Before 1920	3,647	0.28	4.1	0.32	1.11
1920 to 1945	7,425	0.20	8.0	0.21	1.07
1946 to 1959	4,452	0.16	5.0	0.19	1.13
1960 to 1969	4,345	0.16	4.8	0.17	1.10
1970 to 1979	2,680	0.07	3.0	0.08	1.13
1980 to 1989	1,299	0.03	1.5	0.03	1.19
1990 to 1999	1,293	0.03	1.4	0.03	1.11
2000 to 2003	2,128	Q	2.4	Q	1.14
Census Region and Division					
Northeast	5,021	0.20	5.5	0.22	1.10
New England	4,288	0.30	4.8	0.33	1.11
Middle Atlantic	5,691	0.16	6.2	0.18	1.10
Midwest	2,248	0.06	2.3	0.06	1.04
East North Central	Q	Q	1.9	0.03	0.92
West North Central	2,437	0.10	2.7	Q	1.12
South	1,155	0.02	1.4	0.03	1.21
South Atlantic	1,506	0.03	1.8	0.04	1.21
East South Central	449	0.02	Q	Q	Q
West South Central	336	0.00	0.4	0.00	1.27
West	1,714	Q	Q	Q	1.28
Mountain	Q	Q	Q	Q	1.32
Pacific	Q	0.02	Q	Q	1.25

Table C34A. Fuel Oil Consumption and Expenditure Intensities for All Buildings, 2003

	Fuel Oil Consumption		Fuel Oil Expenditures		
	per Building (gallons)	per Square Foot (gallons)	per Building (thousand dollars)	per Square Foot (dollars)	per Gallon (dollars)
All Buildings	3,533	0.10	3.9	0.11	1.11
Climate Zone: 30-Year Average					
Under 2,000 CDD and --					
More than 7,000 HDD	3,113	0.17	3.3	0.18	1.04
5,500-7,000 HDD	3,226	0.11	3.8	0.13	1.16
4,000-5,499 HDD	6,338	0.13	7.0	0.15	1.10
Fewer than 4,000 HDD	841	0.02	1.1	0.02	1.28
2,000 CDD or More and --					
Fewer than 4,000 HDD	500	0.00	0.6	0.00	1.27
Number of Establishments					
One	3,537	0.14	3.9	0.16	1.11
2 to 5	3,106	0.08	3.5	0.09	1.14
6 to 10	4,079	0.07	4.3	0.08	1.04
11 to 20	Q	0.02	5.5	0.02	1.01
More than 20	Q	Q	Q	Q	1.09
Currently Unoccupied	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)					
Electricity	3,546	0.10	3.9	0.11	1.11
Natural Gas	5,091	0.06	5.6	0.07	1.09
Fuel Oil	3,533	0.10	3.9	0.11	1.11
District Heat	2,124	0.01	2.2	0.01	1.03
Energy End Uses (more than one may apply)					
Buildings with Space Heating	3,536	0.10	3.9	0.11	1.11
Buildings with Cooling	4,164	0.09	4.6	0.10	1.10
Buildings with Water Heating	4,028	0.10	4.4	0.11	1.10
Annual Consumption (gallons)					
1,000 or Less	372	0.01	0.5	0.01	1.32
1,001 to 5,000	2,267	0.10	2.8	0.13	1.24
5,001 to 10,000	6,745	0.22	8.0	0.27	1.19
10,001 to 25,000	14,804	0.22	15.7	0.24	1.06
Over 25,000	55,107	0.36	56.6	0.37	1.03

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use fuel oil.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C35A. Fuel Oil Consumption and Conditional Energy Intensity by Census Region for All Buildings, 2003

	Total Fuel Oil Consumption (million gallons)				Total Floorspace of Buildings Using Fuel Oil (million square feet)				Fuel Oil Energy Intensity (gallons/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	1,302	172	107	64	6,464	2,909	4,663	2,230	0.20	0.06	0.02	Q
Building Floorspace (Square Feet)												
1,001 to 10,000	381	Q	Q	Q	763	Q	274	Q	0.50	Q	0.10	Q
10,001 to 100,000	404	63	Q	Q	1,806	648	985	351	0.22	0.10	Q	Q
Over 100,000	517	21	45	Q	3,894	2,055	3,404	1,780	0.13	0.01	0.01	Q
Principal Building Activity												
Education	282	Q	Q	Q	933	Q	Q	Q	0.30	Q	Q	Q
Health Care	Q	Q	17	7	Q	492	786	262	Q	Q	0.02	0.03
Office	105	6	14	1	1,379	714	1,235	748	0.08	0.01	0.01	0.00
All Others	873	Q	47	40	3,810	1,358	2,186	1,091	0.23	Q	0.02	Q
Year Constructed												
1945 or Before	562	Q	Q	Q	2,162	Q	Q	Q	0.26	Q	Q	Q
1946 to 1959	277	Q	Q	Q	1,273	343	Q	Q	0.22	Q	Q	Q
1960 to 1969	Q	Q	Q	Q	605	398	483	Q	0.34	Q	Q	Q
1970 to 1979	123	Q	25	Q	645	604	817	Q	0.19	Q	0.03	Q
1980 to 1989	65	Q	Q	5	750	Q	1,231	1,004	0.09	Q	Q	0.01
1990 to 2003	Q	18	Q	6	1,029	806	1,377	391	0.07	0.02	Q	Q
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	295	Q	N	Q	1,027	1,205	N	392	0.29	0.12	N	Q
5,500-7,000 HDD	428	20	N	Q	2,411	1,491	N	Q	0.18	0.01	N	Q
4,000-5,499 HDD	Q	Q	Q	Q	3,025	Q	1,551	Q	0.19	Q	Q	Q
Fewer than 4,000 HDD	N	N	31	Q	N	N	1,423	1,105	N	N	0.02	Q
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	6	Q	N	N	1,689	Q	N	N	0.00	Q
Number of Establishments												
One	1,041	Q	76	Q	3,679	1,652	2,654	1,227	0.28	0.09	0.03	Q
2 to 5	170	Q	24	Q	1,173	655	700	Q	0.15	Q	0.03	Q
6 to 10	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	Q	Q	Q	826	Q	Q	Q	Q	Q
Currently Unoccupied	Q	N	N	N	Q	N	N	N	Q	N	N	N
Energy Sources (more than one may apply)												
Electricity	1,302	170	107	64	6,464	2,894	4,663	2,230	0.20	0.06	0.02	0.03
Natural Gas	640	28	50	Q	4,049	2,200	3,356	1,691	0.16	0.01	0.01	Q
Fuel Oil	1,302	172	107	64	6,464	2,909	4,663	2,230	0.20	0.06	0.02	Q
District Heat	Q	Q	2	Q	864	314	476	Q	Q	Q	Q	Q
Energy End Uses (more than one may apply)												
Buildings with Space Heating	1,290	172	104	Q	6,414	2,909	4,575	2,152	0.20	0.06	0.02	Q
Buildings with Cooling	1,036	128	105	35	5,473	2,746	4,634	2,134	0.19	0.05	0.02	0.02
Buildings with Water Heating	1,265	Q	101	49	6,142	2,776	4,571	2,179	0.21	0.06	0.02	0.02

Table C35A. Fuel Oil Consumption and Conditional Energy Intensity by Census Region for All Buildings, 2003

	Total Fuel Oil Consumption (million gallons)				Total Floorspace of Buildings Using Fuel Oil (million square feet)				Fuel Oil Energy Intensity (gallons/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	1,302	172	107	64	6,464	2,909	4,663	2,230	0.20	0.06	0.02	Q
Annual Consumption (gallons)												
1,000 or Less	57	15	19	7	2,271	1,960	3,219	1,598	0.02	0.01	0.01	0.00
1,001 to 5,000	254	Q	Q	Q	1,367	480	772	Q	0.19	0.07	Q	Q
5,001 to 10,000	161	Q	Q	Q	449	Q	Q	Q	0.36	Q	Q	Q
10,001 to 25,000	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Over 25,000	717	Q	Q	Q	1,811	Q	Q	Q	0.40	Q	Q	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use fuel oil.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C36A. Fuel Oil Expenditures by Census Region for All Buildings, 2003

	Total Fuel Oil Expenditures (million dollars)				Fuel Oil Expenditures (dollars) per Gallon				Fuel Oil Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	1,437	178	130	82	1.10	1.04	1.21	1.28	0.22	0.06	0.03	Q
Building Floorspace (Square Feet)												
1,001 to 10,000	460	Q	Q	Q	1.21	Q	Q	Q	0.60	Q	Q	Q
10,001 to 100,000	444	70	Q	Q	1.10	1.12	1.29	1.31	0.25	0.11	Q	Q
Over 100,000	533	22	48	Q	1.03	1.06	1.08	1.26	0.14	0.01	0.01	Q
Principal Building Activity												
Education	293	Q	Q	Q	1.04	Q	Q	Q	0.31	Q	Q	Q
Health Care	Q	Q	19	8	Q	1.06	1.08	1.16	Q	Q	0.02	0.03
Office	122	8	18	Q	1.16	1.32	1.26	1.44	0.09	0.01	0.01	0.00
All Others	980	Q	64	50	1.12	1.02	1.34	1.26	0.26	0.10	0.03	Q
Year Constructed												
1945 or Before	620	Q	Q	Q	1.10	Q	Q	Q	0.29	Q	Q	Q
1946 to 1959	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1960 to 1969	Q	Q	Q	Q	1.06	Q	Q	Q	0.36	Q	Q	Q
1970 to 1979	135	Q	31	Q	1.10	1.19	1.23	Q	0.21	Q	0.04	Q
1980 to 1989	77	Q	Q	7	1.19	Q	1.16	1.23	0.10	Q	Q	0.01
1990 to 2003	Q	21	Q	Q	1.09	1.16	1.19	Q	0.07	0.03	Q	Q
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	312	Q	N	Q	1.06	1.00	N	1.23	0.30	0.12	N	Q
5,500-7,000 HDD	493	25	N	Q	1.15	1.23	N	Q	0.20	0.02	N	Q
4,000-5,499 HDD	Q	Q	Q	Q	1.09	Q	1.19	Q	0.21	Q	Q	Q
Fewer than 4,000 HDD	N	N	39	Q	N	N	1.24	1.38	N	N	0.03	Q
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	8	Q	N	N	1.27	Q	N	N	0.00	Q
Number of Establishments												
One	1,152	160	96	Q	1.11	1.03	1.25	1.30	0.31	0.10	0.04	Q
2 to 5	193	Q	26	Q	1.13	1.07	1.10	Q	0.16	Q	0.04	Q
6 to 10	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	Q	Q	Q	1.28	Q	Q	Q	Q	Q
Currently Unoccupied	Q	N	N	N	Q	N	N	N	Q	N	N	N
Energy Sources (more than one may apply)												
Electricity	1,437	176	130	82	1.10	1.03	1.21	1.28	0.22	0.06	0.03	0.04
Natural Gas	694	31	57	Q	1.09	1.12	1.14	1.18	0.17	0.01	0.02	Q
Fuel Oil	1,437	178	130	82	1.10	1.04	1.21	1.28	0.22	0.06	0.03	Q
District Heat	Q	Q	2	Q	Q	Q	1.23	Q	Q	Q	0.01	Q
Energy End Uses (more than one may apply)												
Buildings with Space Heating	1,422	178	126	Q	1.10	1.04	1.21	1.27	0.22	0.06	0.03	Q
Buildings with Cooling	1,133	127	127	43	1.09	0.99	1.21	1.23	0.21	0.05	0.03	0.02
Buildings with Water Heating	1,388	164	119	61	1.10	1.02	1.18	1.25	0.23	0.06	0.03	0.03

Table C36A. Fuel Oil Expenditures by Census Region for All Buildings, 2003

	Total Fuel Oil Expenditures (million dollars)				Fuel Oil Expenditures (dollars) per Gallon				Fuel Oil Expenditures (dollars) per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	1,437	178	130	82	1.10	1.04	1.21	1.28	0.22	0.06	0.03	Q
Annual Consumption (gallons)												
1,000 or Less	73	19	27	10	1.29	1.28	1.44	1.31	0.03	0.01	0.01	0.01
1,001 to 5,000	316	Q	Q	Q	1.24	1.18	1.24	Q	0.23	Q	Q	Q
5,001 to 10,000	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
10,001 to 25,000	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Over 25,000	730	Q	Q	Q	1.02	Q	Q	Q	0.40	Q	Q	Q

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use fuel oil.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C37A. Total District Heat Consumption and Expenditures for All Buildings, 2003

	All Buildings Using District Heat			District Heat Consumption	District Heat Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million dollars)
All Buildings	67	5,576	83	636	7,279
Building Floorspace (Square Feet)					
1,001 to 5,000	Q	Q	Q	Q	Q
5,001 to 10,000	Q	Q	Q	Q	Q
10,001 to 25,000	18	289	16	Q	Q
25,001 to 50,000	10	369	35	Q	Q
50,001 to 100,000	8	574	70	Q	Q
100,001 to 200,000	9	1,399	148	165	Q
200,001 to 500,000	4	1,018	286	123	Q
Over 500,000	2	1,826	827	171	1,843
Principal Building Activity					
Education	26	1,145	45	134	Q
Food Sales	N	N	N	N	N
Food Service	Q	Q	Q	Q	Q
Health Care	2	493	Q	Q	Q
Inpatient	1	436	563	Q	Q
Outpatient	Q	Q	Q	Q	Q
Lodging	6	345	Q	Q	Q
Mercantile	Q	Q	Q	Q	Q
Retail (Other Than Mall)	Q	Q	Q	Q	Q
Enclosed and Strip Malls	Q	Q	Q	Q	Q
Office	16	1,569	97	128	1,441
Public Assembly	6	547	89	Q	Q
Public Order and Safety	Q	Q	Q	Q	Q
Religious Worship	Q	Q	Q	Q	Q
Service	Q	Q	Q	Q	Q
Warehouse and Storage	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q
Year Constructed					
Before 1920	6	294	46	Q	Q
1920 to 1945	12	1,207	99	129	1,423
1946 to 1959	15	705	49	Q	Q
1960 to 1969	13	853	64	117	Q
1970 to 1979	6	588	101	77	Q
1980 to 1989	5	888	192	Q	Q
1990 to 1999	8	705	87	Q	Q
2000 to 2003	Q	Q	Q	Q	Q
Census Region and Division					
Northeast	18	1,496	85	166	2,169
New England	Q	Q	Q	Q	Q
Middle Atlantic	12	1,082	90	Q	Q
Midwest	13	1,648	126	225	2,329
East North Central	8	1,420	189	192	Q
West North Central	Q	Q	Q	Q	Q
South	21	1,766	83	182	Q
South Atlantic	15	1,243	86	117	Q
East South Central	Q	Q	Q	Q	Q
West South Central	Q	Q	Q	Q	Q
West	15	667	44	Q	Q
Mountain	7	253	35	Q	Q
Pacific	8	413	53	Q	Q

Table C37A. Total District Heat Consumption and Expenditures for All Buildings, 2003

	All Buildings Using District Heat			District Heat Consumption	District Heat Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million dollars)
All Buildings	67	5,576	83	636	7,279
Climate Zone: 30-Year Average					
Under 2,000 CDD and --					
More than 7,000 HDD	6	825	131	88	Q
5,500-7,000 HDD	27	1,917	71	257	Q
4,000-5,499 HDD	13	1,349	100	140	Q
Fewer than 4,000 HDD	13	1,025	78	101	Q
2,000 CDD or More and --					
Fewer than 4,000 HDD	7	460	65	Q	Q
Number of Establishments					
One	45	3,063	68	384	4,361
2 to 5	15	1,301	85	156	Q
6 to 10	Q	Q	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q
More than 20	1	569	673	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)					
Electricity	67	5,576	83	636	7,279
Natural Gas	25	2,577	104	306	3,611
Fuel Oil	5	1,864	403	179	1,993
District Heat	67	5,576	83	636	7,279
Energy End Uses (more than one may apply)					
Buildings with Space Heating	67	5,511	82	635	7,276
Buildings with Cooling	55	4,786	87	536	6,112
Buildings with Water Heating	61	4,764	78	525	6,018

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use district heat.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C38A. District Heat Consumption and Expenditure Intensities for All Buildings, 2003

	District Heat Consumption		District Heat Expenditures		
	per Building (million Btu)	per Square Foot (thousand Btu)	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Pounds (dollars)
All Buildings	9,470	113.98	108.4	1.31	11.45
Building Floorspace (Square Feet)					
1,001 to 5,000	Q	Q	Q	Q	Q
5,001 to 10,000	Q	Q	Q	Q	Q
10,001 to 25,000	Q	Q	Q	Q	Q
25,001 to 50,000	Q	Q	Q	Q	Q
50,001 to 100,000	Q	Q	Q	Q	Q
100,001 to 200,000	17,452	118.10	Q	Q	Q
200,001 to 500,000	34,658	121.16	Q	Q	Q
Over 500,000	77,419	93.60	834.8	1.01	10.78
Principal Building Activity					
Education	5,223	116.63	Q	Q	Q
Food Sales	N	N	N	N	
Food Service	Q	Q	Q	Q	Q
Health Care	Q	Q	Q	Q	Q
Inpatient	Q	Q	Q	Q	Q
Outpatient	Q	Q	Q	Q	Q
Lodging	Q	Q	Q	Q	Q
Mercantile	Q	Q	Q	Q	Q
Retail (Other Than Mall)	Q	Q	Q	Q	Q
Enclosed and Strip Malls	Q	Q	Q	Q	Q
Office	7,933	81.53	89.4	0.92	11.27
Public Assembly	Q	Q	Q	Q	Q
Public Order and Safety	Q	Q	Q	Q	Q
Religious Worship	Q	Q	Q	Q	Q
Service	Q	Q	Q	Q	Q
Warehouse and Storage	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q
Year Constructed					
Before 1920	Q	Q	Q	Q	Q
1920 to 1945	10,610	107.03	116.9	1.18	11.02
1946 to 1959	Q	Q	Q	Q	Q
1960 to 1969	8,787	137.56	Q	Q	Q
1970 to 1979	13,255	131.66	Q	Q	Q
1980 to 1989	Q	Q	Q	Q	Q
1990 to 1999	Q	Q	Q	Q	Q
2000 to 2003	Q	Q	Q	Q	Q
Census Region and Division					
Northeast	9,403	111.22	Q	1.45	13.04
New England	Q	Q	Q	Q	Q
Middle Atlantic	Q	Q	Q	Q	Q
Midwest	17,217	136.50	Q	1.41	10.35
East North Central	25,607	135.33	Q	Q	Q
West North Central	Q	Q	Q	Q	Q
South	8,547	102.81	Q	1.17	11.36
South Atlantic	8,059	94.14	Q	Q	Q
East South Central	Q	Q	Q	Q	Q
West South Central	Q	Q	Q	Q	Q
West	Q	Q	Q	Q	Q
Mountain	Q	Q	Q	Q	Q
Pacific	Q	Q	Q	Q	Q

Table C38A. District Heat Consumption and Expenditure Intensities for All Buildings, 2003

	District Heat Consumption		District Heat Expenditures		
	per Building (million Btu)	per Square Foot (thousand Btu)	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Pounds (dollars)
All Buildings	9,470	113.98	108.4	1.31	11.45
Climate Zone: 30-Year Average					
Under 2,000 CDD and --					
More than 7,000 HDD	Q	106.35	Q	Q	Q
5,500-7,000 HDD	9,440	133.88	Q	Q	Q
4,000-5,499 HDD	10,354	103.48	128.9	1.29	12.45
Fewer than 4,000 HDD	7,681	98.14	Q	Q	Q
2,000 CDD or More and --					
Fewer than 4,000 HDD	Q	Q	Q	Q	Q
Number of Establishments					
One	8,549	125.34	97.1	1.42	11.36
2 to 5	10,135	119.61	Q	Q	Q
6 to 10	Q	Q	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)					
Electricity	9,470	113.98	108.4	1.31	11.45
Natural Gas	Q	118.88	Q	1.40	11.79
Fuel Oil	38,643	95.96	430.5	1.07	11.14
District Heat	9,470	113.98	108.4	1.31	11.45
Energy End Uses (more than one may apply)					
Buildings with Space Heating	9,496	115.28	108.8	1.32	11.45
Buildings with Cooling	9,719	112.07	110.8	1.28	11.40
Buildings with Water Heating	8,588	110.18	98.5	1.26	11.46

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site http://www.eia.doe.gov/emeu/cbecs.
Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample that use district heat.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.