



# **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](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](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](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](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](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 be 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**

	<b>Number of Buildings (thousand)</b>	<b>Total Floorspace (million square feet)</b>	<b>Mean Square Feet per Building (thousand)</b>	<b>Median Square Feet per Building (thousand)</b>
<b>All Buildings</b> .....	4,859	71,658	14.7	5.0
<b>Building Floorspace (Square Feet)</b>				
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
<b>Principal Building Activity</b>				
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
<b>Year Constructed</b>				
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
<b>Census Region and Division</b>				
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

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

	<b>Number of Buildings (thousand)</b>	<b>Total Floorspace (million square feet)</b>	<b>Mean Square Feet per Building (thousand)</b>	<b>Median Square Feet per Building (thousand)</b>
<b>All Buildings .....</b>	4,859	71,658	14.7	5.0
<b>Climate Zone: 30-Year Average</b>				
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
<b>Number of Establishments</b>				
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
<b>All Buildings</b> .....	4,859	761	1,305	1,873	920	71,658	13,995	18,103	26,739	12,820
<b>Building Floorspace (Square Feet)</b>										
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
<b>Principal Building Activity</b>										
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
<b>Year Constructed</b>										
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
<b>Climate Zone: 30-Year Average</b>										
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

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**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
<b>All Buildings .....</b>	4,859	761	1,305	1,873	920	71,658	13,995	18,103	26,739	12,820
<b>Number of Establishments</b>										
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)									
	All Buildings	Northeast		Midwest		South			West	
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All Buildings</b> .....	4,859	252	509	728	577	926	360	587	316	603
<b>Building Floorspace (Square Feet)</b>										
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
<b>Principal Building Activity</b>										
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
<b>Year Constructed</b>										
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
<b>Climate Zone: 30-Year Average</b>										
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

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

	Number of Buildings (thousand)									
	All Buildings	Northeast		Midwest		South			West	
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>Number of Establishments</b>										
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)									
	All Buildings	Northeast		Midwest		South			West	
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All Buildings</b> .....	71,658	3,452	10,543	12,424	5,680	13,999	3,719	9,022	4,207	8,613
<b>Building Floorspace (Square Feet)</b>										
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
<b>Principal Building Activity</b>										
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
<b>Year Constructed</b>										
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
<b>Climate Zone: 30-Year Average</b>										
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)									
	All Buildings	Northeast		Midwest		South			West	
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>Number of Establishments</b>										
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)								
	All Buildings	Building Size							
		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
<b>All Buildings</b> .....	4,859	2,586	948	810	261	147	74	26	8
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Census Region and Division</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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)								
	All Buildings	Building Size							
		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
<b>Number of Establishments</b>									
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/cbeecs>.

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)								
	All Buildings	Building Size							
		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
<b>All Buildings</b> .....	71,658	6,922	7,033	12,659	9,382	10,291	10,217	7,494	7,660
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Census Region and Division</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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

	Total Floorspace (million square feet)								
	All Buildings	Building Size							
		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
<b>Number of Establishments</b>									
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/cbeecs>.

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)						
	All Buildings	Number of Establishments in Building					
		One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
<b>All Buildings</b> .....	4,859	3,754	762	117	47	22	157
<b>Building Floorspace (Square Feet)</b>							
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
<b>Principal Building Activity</b>							
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
<b>Year Constructed</b>							
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
<b>Census Region and Division</b>							
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

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

	Number of Buildings (thousand)						
	All Buildings	Number of Establishments in Building					
		One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
<b>Climate Zone: 30-Year Average</b>							
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)						
	All Buildings	Number of Establishments in Building					
		One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
<b>All Buildings</b> .....	71,658	45,144	12,565	3,358	3,369	5,060	2,161
<b>Building Floorspace (Square Feet)</b>							
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
<b>Principal Building Activity</b>							
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
<b>Year Constructed</b>							
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
<b>Census Region and Division</b>							
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

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

	Total Floorspace (million square feet)						
	All Buildings	Number of Establishments in Building					
		One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
<b>Climate Zone: 30-Year Average</b>							
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
<b>All Buildings*</b> .....	4,645	64,783	72,807	13.9	890	61
<b>Building Floorspace (Square Feet)</b>						
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
<b>Principal Building Activity</b>						
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
<b>Year Constructed</b>						
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
<b>Census Region and Division</b>						
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

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**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
<b>All Buildings*</b> .....	4,645	64,783	72,807	13.9	890	61
<b>Climate Zone: 30-Year Average</b>						
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
<b>Number of Floors</b>						
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
<b>Elevators and Escalators (more than one may apply)</b>						
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
<b>Number of Workers (main shift)</b>						
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
<b>Weekly Operating Hours</b>						
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
<b>Ownership and Occupancy</b>						
Nongovernment Owned .....						
Owner Occupied .....	4,011	49,421	53,339	12.3	927	62
Nonowner Occupied .....	1,841	23,591	27,111	12.8	870	60
Unoccupied .....	2,029	23,914	26,228	11.8	912	69
Government Owned .....	141	1,916	N	13.6	N	0
Government Owned .....						
Federal .....	635	15,363	19,468	24.2	789	55
State .....	46	1,956	2,432	42.9	804	66
Local .....	164	3,808	7,204	23.2	529	57
	425	9,599	9,832	22.6	976	53
<b>Vacancy Status</b>						
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

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**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
<b>All Buildings*</b> .....	4,645	64,783	72,807	13.9	890	61
<b>Number of Establishments</b>						
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
<b>Predominant Exterior Wall Material</b>						
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
<b>Predominant Roof Material</b>						
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>						
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

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**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
<b>All Buildings*</b> .....	4,645	64,783	72,807	13.9	890	61
<b>Energy Sources (more than one may apply)</b>						
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
<b>Space-Heating Energy Sources (more than one may apply)</b>						
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
<b>Primary Space-Heating Energy Source</b>						
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
<b>Cooling Energy Sources (more than one may apply)</b>						
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
<b>Water-Heating Energy Sources (more than one may apply)</b>						
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
<b>Cooking Energy Sources (more than one may apply)</b>						
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

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**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
<b>All Buildings*</b> .....	4,645	64,783	72,807	13.9	890	61
<b>Energy End Uses (more than one may apply)</b>						
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
<b>Percent of Floorspace Heated</b>						
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
<b>Percent of Floorspace Cooled</b>						
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
<b>Percent Lit When Open</b>						
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
<b>Percent Lit When Closed</b>						
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
<b>Heating Equipment (more than one may apply)</b>						
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

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**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
<b>All Buildings*</b> .....	4,645	64,783	72,807	13.9	890	61
<b>Cooling Equipment (more than one may apply)</b>						
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>						
Heating .....	1,197	16,403	16,978	13.7	966	61
Cooling .....	1,356	20,995	24,553	15.5	855	64
<b>Water Heating Equipment</b>						
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
<b>Lighting Equipment Types (more than one may apply)</b>						
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>						
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
<b>Office Equipment (more than one may apply)</b>						
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

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**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
<b>All Buildings*</b> .....	4,645	64,783	72,807	13.9	890	61
<b>Number of Computers</b>						
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
<b>Number of Dedicated Servers</b>						
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
<b>Number of Photocopiers</b>						
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
<b>Energy-Related Space Functions (more than one may apply)</b>						
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
<b>HVAC Conservation Features (more than one may apply)</b>						
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
<b>Window and Interior Lighting Features (more than one may apply)</b>						
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

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**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
<b>All Buildings*</b> .....	4,645	64,783	72,807	13.9	890	61
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>						
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.

<sup>a</sup> 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)
<b>All Buildings*</b> .....	4,645	64,783	72,807	4.6	1,000	50	30.5
<b>Building Floorspace (Square Feet)</b>							
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
<b>Principal Building Activity</b>							
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
<b>Year Constructed</b>							
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
<b>Census Region and Division</b>							
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

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**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)
<b>All Buildings*</b> .....	4,645	64,783	72,807	4.6	1,000	50	30.5
<b>Climate Zone: 30-Year Average</b>							
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
<b>Number of Floors</b>							
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
<b>Elevators and Escalators (more than one may apply)</b>							
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
<b>Number of Workers (main shift)</b>							
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
<b>Weekly Operating Hours</b>							
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
<b>Ownership and Occupancy</b>							
Nongovernment Owned .....	4,011	49,421	53,339	4.5	1,000	50	29.5
Owner Occupied .....							
Owner Occupied .....	1,841	23,591	27,111	5.0	1,000	50	31.5
Nonowner Occupied .....							
Nonowner Occupied .....	2,029	23,914	26,228	4.0	1,000	55	27.5
Unoccupied .....							
Unoccupied .....	141	1,916	0	3.7	N	0	43.5
Government Owned .....							
Government Owned .....	635	15,363	19,468	6.2	975	45	31.5
Federal .....							
Federal .....	46	1,956	2,432	6.6	900	60	34.5
State .....							
State .....	164	3,808	7,204	5.5	808	45	30.5
Local .....							
Local .....	425	9,599	9,832	6.2	1,050	45	31.5
<b>Vacancy Status</b>							
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

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**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)
<b>All Buildings*</b> .....	4,645	64,783	72,807	4.6	1,000	50	30.5
<b>Number of Establishments</b>							
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
<b>Predominant Exterior Wall Material</b>							
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
<b>Predominant Roof Material</b>							
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>							
<b>Any Type of Renovation</b>							
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
<b>Interior Wall</b>							
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

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**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)
<b>All Buildings*</b> .....	4,645	64,783	72,807	4.6	1,000	50	30.5
<b>Energy Sources (more than one may apply)</b>							
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
<b>Space-Heating Energy Sources (more than one may apply)</b>							
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
<b>Primary Space-Heating Energy Source</b>							
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
<b>Cooling Energy Sources (more than one may apply)</b>							
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
<b>Water-Heating Energy Sources (more than one may apply)</b>							
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
<b>Cooking Energy Sources (more than one may apply)</b>							
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

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**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)
<b>All Buildings*</b> .....	4,645	64,783	72,807	4.6	1,000	50	30.5
<b>Energy End Uses (more than one may apply)</b>							
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
<b>Percent of Floorspace Heated</b>							
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
<b>Percent of Floorspace Cooled</b>							
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
<b>Percent Lit When Open</b>							
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
<b>Percent Lit When Closed</b>							
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
<b>Heating Equipment (more than one may apply)</b>							
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)
<b>All Buildings*</b> .....	4,645	64,783	72,807	4.6	1,000	50	30.5
<b>Cooling Equipment (more than one may apply)</b>							
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>							
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
<b>Water Heating Equipment</b>							
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
<b>Lighting Equipment Types (more than one may apply)</b>							
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>							
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
<b>Office Equipment (more than one may apply)</b>							
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

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**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)
<b>All Buildings*</b> .....	4,645	64,783	72,807	4.6	1,000	50	30.5
<b>Number of Computers</b>							
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
<b>Number of Dedicated Servers</b>							
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
<b>Number of Photocopiers</b>							
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
<b>Energy-Related Space Functions (more than one may apply)</b>							
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
<b>HVAC Conservation Features (more than one may apply)</b>							
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
<b>Window and Interior Lighting Features (more than one may apply)</b>							
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

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**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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>							
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.

<sup>a</sup> 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
<b>All Buildings*</b> .....	4,645	726	1,266	1,775	878	64,783	12,905	17,080	23,489	11,310
<b>Building Floorspace (Square Feet)</b>										
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
<b>Principal Building Activity</b>										
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
<b>Year Constructed</b>										
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
<b>Climate Zone: 30-Year Average</b>										
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
<b>Number of Floors</b>										
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
<b>All Buildings*</b> .....	4,645	726	1,266	1,775	878	64,783	12,905	17,080	23,489	11,310
<b>Elevators and Escalators (more than one may apply)</b>										
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
<b>Number of Workers (main shift)</b>										
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
<b>Weekly Operating Hours</b>										
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
<b>Ownership and Occupancy</b>										
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
<b>Vacancy Status</b>										
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
<b>Number of Establishments</b>										
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

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**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
<b>All Buildings*</b> .....	4,645	726	1,266	1,775	878	64,783	12,905	17,080	23,489	11,310
<b>Predominant Exterior Wall Material</b>										
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
<b>Predominant Roof Material</b>										
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>										
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
<b>Energy Sources (more than one may apply)</b>										
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
<b>All Buildings*</b> .....	4,645	726	1,266	1,775	878	64,783	12,905	17,080	23,489	11,310
<b>Energy End Uses (more than one may apply)</b>										
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
<b>Percent of Floorspace Heated</b>										
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
<b>Percent of Floorspace Cooled</b>										
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
<b>Percent Lit When Open</b>										
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
<b>Percent Lit When Closed</b>										
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
<b>Heating Equipment (more than one may apply)</b>										
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
<b>All Buildings*</b> .....	4,645	726	1,266	1,775	878	64,783	12,905	17,080	23,489	11,310
<b>Cooling Equipment (more than one may apply)</b>										
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>										
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
<b>Office Equipment (more than one may apply)</b>										
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
<b>Number of Computers</b>										
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
<b>Number of Dedicated Servers</b>										
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
<b>Number of Photocopiers</b>										
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
<b>All Buildings*</b> .....	4,645	726	1,266	1,775	878	64,783	12,905	17,080	23,489	11,310
<b>Energy-Related Space Functions (more than one may apply)</b>										
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
<b>HVAC Conservation Features (more than one may apply)</b>										
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
<b>Window and Interior Lighting Features (more than one may apply)</b>										
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>										
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.

<sup>a</sup> 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)									
	All Buildings*	Northeast		Midwest		South			West	
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All Buildings*</b> .....	4,645	233	493	696	571	874	348	553	299	580
<b>Building Floorspace (Square Feet)</b>										
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
<b>Principal Building Activity</b>										
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
<b>Year Constructed</b>										
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
<b>Number of Floors</b>										
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
<b>Elevators and Escalators (more than one may apply)</b>										
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)									
	All Buildings*	Northeast		Midwest		South			West	
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All Buildings*</b> .....	4,645	233	493	696	571	874	348	553	299	580
<b>Number of Workers (main shift)</b>										
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
<b>Weekly Operating Hours</b>										
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
<b>Ownership and Occupancy</b>										
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
<b>Vacancy Status</b>										
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
<b>Number of Establishments</b>										
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
<b>Predominant Exterior Wall Material</b>										
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)									
	All Buildings*	Northeast		Midwest		South			West	
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All Buildings*</b> .....	4,645	233	493	696	571	874	348	553	299	580
<b>Predominant Roof Material</b>										
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>										
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
<b>Energy Sources (more than one may apply)</b>										
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
<b>Energy End Uses (more than one may apply)</b>										
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
<b>Percent of Floorspace Heated</b>										
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)									
	All Buildings*	Northeast		Midwest		South			West	
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All Buildings*</b> .....	4,645	233	493	696	571	874	348	553	299	580
<b>Percent of Floorspace Cooled</b>										
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
<b>Percent Lit When Open</b>										
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
<b>Percent Lit When Closed</b>										
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
<b>Heating Equipment (more than one may apply)</b>										
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
<b>Cooling Equipment (more than one may apply)</b>										
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>										
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)									
	All Buildings*	Northeast		Midwest		South			West	
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All Buildings*</b> .....	4,645	233	493	696	571	874	348	553	299	580
<b>Office Equipment (more than one may apply)</b>										
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
<b>Number of Computers</b>										
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
<b>Number of Dedicated Servers</b>										
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
<b>Number of Photocopiers</b>										
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
<b>Energy-Related Space Functions (more than one may apply)</b>										
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
<b>HVAC Conservation Features (more than one may apply)</b>										
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)									
	All Buildings*	Northeast		Midwest		South			West	
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All Buildings*</b> .....	4,645	233	493	696	571	874	348	553	299	580
<b>Window and Interior Lighting Features (more than one may apply)</b>										
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>										
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.

<sup>a</sup> 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)									
	All Buildings*	Northeast		Midwest		South			West	
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All Buildings*</b> .....	64,783	2,964	9,941	11,595	5,485	12,258	3,393	7,837	3,675	7,635
<b>Building Floorspace (Square Feet)</b>										
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
<b>Principal Building Activity</b>										
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
<b>Year Constructed</b>										
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
<b>Number of Floors</b>										
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
<b>Elevators and Escalators (more than one may apply)</b>										
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)									
	All Buildings*	Northeast		Midwest		South			West	
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All Buildings*</b> .....	64,783	2,964	9,941	11,595	5,485	12,258	3,393	7,837	3,675	7,635
<b>Number of Workers (main shift)</b>										
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
<b>Weekly Operating Hours</b>										
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
<b>Ownership and Occupancy</b>										
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
<b>Vacancy Status</b>										
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
<b>Number of Establishments</b>										
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
<b>Predominant Exterior Wall Material</b>										
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)									
	All Buildings*	Northeast		Midwest		South			West	
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All Buildings*</b> .....	64,783	2,964	9,941	11,595	5,485	12,258	3,393	7,837	3,675	7,635
<b>Predominant Roof Material</b>										
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>										
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
<b>Energy Sources (more than one may apply)</b>										
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
<b>Energy End Uses (more than one may apply)</b>										
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
<b>Percent of Floorspace Heated</b>										
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)									
	All Buildings*	Northeast		Midwest		South			West	
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All Buildings*</b> .....	64,783	2,964	9,941	11,595	5,485	12,258	3,393	7,837	3,675	7,635
<b>Percent of Floorspace Cooled</b>										
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
<b>Percent Lit When Open</b>										
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
<b>Percent Lit When Closed</b>										
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
<b>Heating Equipment (more than one may apply)</b>										
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
<b>Cooling Equipment (more than one may apply)</b>										
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>										
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)									
	All Buildings*	Northeast		Midwest		South			West	
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All Buildings*</b> .....	64,783	2,964	9,941	11,595	5,485	12,258	3,393	7,837	3,675	7,635
<b>Office Equipment (more than one may apply)</b>										
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
<b>Number of Computers</b>										
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
<b>Number of Dedicated Servers</b>										
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
<b>Number of Photocopiers</b>										
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
<b>Energy-Related Space Functions (more than one may apply)</b>										
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
<b>HVAC Conservation Features (more than one may apply)</b>										
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)									
	All Buildings*	Northeast		Midwest		South			West	
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All Buildings*</b> .....	64,783	2,964	9,941	11,595	5,485	12,258	3,393	7,837	3,675	7,635
<b>Window and Interior Lighting Features (more than one may apply)</b>										
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>										
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.

<sup>a</sup> 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)								
	All Buildings*	Building Size							
		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
<b>All Buildings*</b> .....	4,645	2,552	889	738	241	129	65	25	7
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Census Region</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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
<b>Number of Floors</b>									
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)								
	All Buildings*	Building Size							
		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
<b>All Buildings*</b> .....	4,645	2,552	889	738	241	129	65	25	7
<b>Elevators and Escalators (more than one may apply)</b>									
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
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
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
<b>Vacancy Status</b>									
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
<b>Number of Establishments</b>									
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)								
	All Buildings*	Building Size							
		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
<b>All Buildings*</b> .....	4,645	2,552	889	738	241	129	65	25	7
<b>Predominant Exterior Wall Material</b>									
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
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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)								
	All Buildings*	Building Size							
		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
<b>All Buildings*</b> .....	4,645	2,552	889	738	241	129	65	25	7
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Percent of Floorspace Heated</b>									
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
<b>Percent of Floorspace Cooled</b>									
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
<b>Percent Lit When Open</b>									
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
<b>Percent Lit When Closed</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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)								
	All Buildings*	Building Size							
		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
<b>All Buildings*</b> .....	4,645	2,552	889	738	241	129	65	25	7
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
Heating .....	1,197	615	233	220	76	34	13	5	1
Cooling .....	1,356	662	288	251	87	41	18	8	2
<b>Lighting Equipment Types (more than one may apply)</b>									
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>									
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
<b>Office Equipment (more than one may apply)</b>									
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)								
	All Buildings*	Building Size							
		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
<b>All Buildings*</b> .....	4,645	2,552	889	738	241	129	65	25	7
<b>Number of Computers</b>									
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
<b>Number of Dedicated Servers</b>									
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
<b>Number of Photocopiers</b>									
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
<b>Energy-Related Space Functions (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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
<b>Window and Interior Lighting Features (more than one may apply)</b>									
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)								
	All Buildings*	Building Size							
		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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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/cbeecs>.

\* 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.

<sup>a</sup> 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)								
	All Buildings*	Building Size							
		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
<b>All Buildings*</b> .....	64,783	6,789	6,585	11,535	8,668	9,057	9,064	7,176	5,908
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Census Region</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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
<b>Number of Floors</b>									
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)								
	All Buildings*	Building Size							
		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
<b>All Buildings*</b> .....	64,783	6,789	6,585	11,535	8,668	9,057	9,064	7,176	5,908
<b>Elevators and Escalators (more than one may apply)</b>									
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
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
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
<b>Vacancy Status</b>									
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
<b>Number of Establishments</b>									
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)								
	All Buildings*	Building Size							
		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
<b>All Buildings*</b> .....	64,783	6,789	6,585	11,535	8,668	9,057	9,064	7,176	5,908
<b>Predominant Exterior Wall Material</b>									
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
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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)								
	All Buildings*	Building Size							
		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
<b>All Buildings*</b> .....	64,783	6,789	6,585	11,535	8,668	9,057	9,064	7,176	5,908
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Percent of Floorspace Heated</b>									
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
<b>Percent of Floorspace Cooled</b>									
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
<b>Percent Lit When Open</b>									
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
<b>Percent Lit When Closed</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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)								
	All Buildings*	Building Size							
		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
<b>All Buildings*</b> .....	64,783	6,789	6,585	11,535	8,668	9,057	9,064	7,176	5,908
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
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
<b>Lighting Equipment Types (more than one may apply)</b>									
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>									
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
<b>Office Equipment (more than one may apply)</b>									
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)								
	All Buildings*	Building Size							
		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
<b>All Buildings*</b> .....	64,783	6,789	6,585	11,535	8,668	9,057	9,064	7,176	5,908
<b>Number of Computers</b>									
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
<b>Number of Dedicated Servers</b>									
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
<b>Number of Photocopiers</b>									
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
<b>Energy-Related Space Functions (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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
<b>Window and Interior Lighting Features (more than one may apply)</b>									
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)								
	All Buildings*	Building Size							
		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
<b>All Buildings*</b> .....	64,783	6,789	6,585	11,535	8,668	9,057	9,064	7,176	5,908
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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.

<sup>a</sup> 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)								
	All Buildings*	Year Constructed							
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
<b>All Buildings*</b> .....	4,645	330	527	562	579	731	707	876	334
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Census Region</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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
<b>Number of Floors</b>									
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)								
	All Buildings*	Year Constructed							
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
<b>All Buildings*</b> .....	4,645	330	527	562	579	731	707	876	334
<b>Elevators and Escalators (more than one may apply)</b>									
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
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
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
<b>Vacancy Status</b>									
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
<b>Number of Establishments</b>									
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

CONTINUED

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

	Number of Buildings (thousand)								
	All Buildings*	Year Constructed							
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
<b>All Buildings*</b> .....	4,645	330	527	562	579	731	707	876	334
<b>Predominant Exterior Wall Material</b>									
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
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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)								
	All Buildings*	Year Constructed							
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
<b>All Buildings*</b> .....	4,645	330	527	562	579	731	707	876	334
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Percent of Floorspace Heated</b>									
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
<b>Percent of Floorspace Cooled</b>									
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
<b>Percent Lit When Open</b>									
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
<b>Percent Lit When Closed</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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)								
	All Buildings*	Year Constructed							
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
<b>All Buildings*</b> .....	4,645	330	527	562	579	731	707	876	334
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
Heating .....	1,197	117	177	189	211	290	212	N	N
Cooling .....	1,356	133	198	230	250	319	227	N	N
<b>Lighting Equipment Types (more than one may apply)</b>									
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
<b>Refrigeration Equipment (more than one may apply)</b>									
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
<b>Office Equipment (more than one may apply)</b>									
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)								
	All Buildings*	Year Constructed							
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
<b>All Buildings*</b> .....	4,645	330	527	562	579	731	707	876	334
<b>Number of Computers</b>									
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
<b>Number of Dedicated Servers</b>									
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
<b>Number of Photocopiers</b>									
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
<b>Energy-Related Space Functions (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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
<b>Window and Interior Lighting Features (more than one may apply)</b>									
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)								
	All Buildings*	Year Constructed							
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
<b>All Buildings*</b> .....	4,645	330	527	562	579	731	707	876	334
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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.

<sup>a</sup> 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)								
	All Buildings*	Year Constructed							
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
<b>All Buildings*</b> .....	64,783	3,769	6,871	7,045	8,101	10,772	10,332	12,360	5,533
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Census Region</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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
<b>Number of Floors</b>									
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)								
	All Buildings*	Year Constructed							
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
<b>All Buildings*</b> .....	64,783	3,769	6,871	7,045	8,101	10,772	10,332	12,360	5,533
<b>Elevators and Escalators (more than one may apply)</b>									
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
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
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
<b>Vacancy Status</b>									
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
<b>Number of Establishments</b>									
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)								
	All Buildings*	Year Constructed							
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
<b>All Buildings*</b> .....	64,783	3,769	6,871	7,045	8,101	10,772	10,332	12,360	5,533
<b>Predominant Exterior Wall Material</b>									
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
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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)								
	All Buildings*	Year Constructed							
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
<b>All Buildings*</b> .....	64,783	3,769	6,871	7,045	8,101	10,772	10,332	12,360	5,533
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Percent of Floorspace Heated</b>									
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
<b>Percent of Floorspace Cooled</b>									
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
<b>Percent Lit When Open</b>									
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
<b>Percent Lit When Closed</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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)								
	All Buildings*	Year Constructed							
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
<b>All Buildings*</b> .....	64,783	3,769	6,871	7,045	8,101	10,772	10,332	12,360	5,533
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
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
<b>Lighting Equipment Types (more than one may apply)</b>									
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
<b>Refrigeration Equipment (more than one may apply)</b>									
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
<b>Office Equipment (more than one may apply)</b>									
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)								
	All Buildings*	Year Constructed							
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
<b>All Buildings*</b> .....	64,783	3,769	6,871	7,045	8,101	10,772	10,332	12,360	5,533
<b>Number of Computers</b>									
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
<b>Number of Dedicated Servers</b>									
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
<b>Number of Photocopiers</b>									
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
<b>Energy-Related Space Functions (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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
<b>Window and Interior Lighting Features (more than one may apply)</b>									
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)								
	All Buildings*	Year Constructed							
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2003
<b>All Buildings*</b> .....	64,783	3,769	6,871	7,045	8,101	10,772	10,332	12,360	5,533
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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/cbeecs>.

\* 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.

<sup>a</sup> 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
<b>All Buildings*</b> .....	4,645	3,136	1,031	339	128	12	64,783	25,981	16,270	7,501	10,085	4,947
<b>Building Floorspace (Square Feet)</b>												
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
<b>Principal Building Activity</b>												
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
<b>Year Constructed</b>												
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
<b>Census Region</b>												
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
<b>Climate Zone: 30-Year Average</b>												
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

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**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 Buildings*	One Floor	Two Floors	Three Floors	Four to Nine Floors	Ten or More Floors	All Buildings*	One Floor	Two Floors	Three Floors	Four to Nine Floors	Ten or More Floors
<b>All Buildings*</b> .....	4,645	3,136	1,031	339	128	12	64,783	25,981	16,270	7,501	10,085	4,947
<b>Elevators and Escalators (more than one may apply)</b>												
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
<b>Number of Workers (main shift)</b>												
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
<b>Weekly Operating Hours</b>												
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
<b>Ownership and Occupancy</b>												
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
<b>Vacancy Status</b>												
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
<b>Number of Establishments</b>												
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



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**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 Buildings*	One Floor	Two Floors	Three Floors	Four to Nine Floors	Ten or More Floors	All Buildings*	One Floor	Two Floors	Three Floors	Four to Nine Floors	Ten or More Floors
<b>All Buildings*</b> .....	4,645	3,136	1,031	339	128	12	64,783	25,981	16,270	7,501	10,085	4,947
<b>Predominant Exterior Wall Material</b>												
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
<b>Predominant Roof Material</b>												
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>												
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
<b>Energy Sources (more than one may apply)</b>												
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

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**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 Buildings*	One Floor	Two Floors	Three Floors	Four to Nine Floors	Ten or More Floors	All Buildings*	One Floor	Two Floors	Three Floors	Four to Nine Floors	Ten or More Floors
<b>All Buildings*</b> .....	4,645	3,136	1,031	339	128	12	64,783	25,981	16,270	7,501	10,085	4,947
<b>Energy End Uses (more than one may apply)</b>												
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
<b>Lighting Equipment Types (more than one may apply)</b>												
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
<b>Window and Interior Lighting Features (more than one may apply)</b>												
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.

<sup>a</sup> 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)							
	All Buildings*	Principal Building Activity						Retail (Other Than Mall)
		Education	Food Sales	Food Service	Health Care		Lodging	
				Inpatient	Outpatient			
<b>All Buildings*</b> .....	4,645	386	226	297	8	121	142	443
<b>Building Floorspace (Square Feet)</b>								
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
<b>Year Constructed</b>								
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
<b>Census Region and Division</b>								
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
<b>Climate Zone: 30-Year Average</b>								
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
<b>Number of Floors</b>								
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

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

	Number of Buildings (thousand)							
	All Buildings*	Principal Building Activity						Retail (Other Than Mall)
		Education	Food Sales	Food Service	Health Care		Lodging	
				Inpatient	Outpatient			
<b>All Buildings*</b> .....	4,645	386	226	297	8	121	142	443
<b>Elevators and Escalators (more than one may apply)</b>								
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
<b>Number of Workers (main shift)</b>								
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
<b>Weekly Operating Hours</b>								
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
<b>Ownership and Occupancy</b>								
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
<b>Vacancy Status</b>								
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
<b>Number of Establishments</b>								
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

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

	Number of Buildings (thousand)							
	All Buildings*	Principal Building Activity						Retail (Other Than Mall)
		Education	Food Sales	Food Service	Health Care		Lodging	
				Inpatient	Outpatient			
<b>All Buildings* .....</b>	4,645	386	226	297	8	121	142	443
<b>Multibuilding Facility</b>								
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
<b>Predominant Exterior Wall Material</b>								
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
<b>Predominant Roof Material</b>								
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>								
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

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

	Number of Buildings (thousand)							
	All Buildings*	Principal Building Activity						Retail (Other Than Mall)
		Education	Food Sales	Food Service	Health Care		Lodging	
				Inpatient	Outpatient			
<b>All Buildings*</b> .....	4,645	386	226	297	8	121	142	443
<b>Energy Sources (more than one may apply)</b>								
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
<b>Energy End Uses (more than one may apply)</b>								
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
<b>Heating Equipment (more than one may apply)</b>								
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
<b>Cooling Equipment (more than one may apply)</b>								
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>								
Heating .....	1,197	82	53	81	2	40	56	128
Cooling .....	1,356	109	75	98	4	41	63	170

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

	Number of Buildings (thousand)							
	All Buildings*	Principal Building Activity						Retail (Other Than Mall)
		Education	Food Sales	Food Service	Health Care		Lodging	
				Inpatient	Outpatient			
<b>All Buildings*</b> .....	4,645	386	226	297	8	121	142	443
<b>Office Equipment (more than one may apply)</b>								
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
<b>Number of Computers</b>								
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
<b>Number of Dedicated Servers</b>								
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
<b>Number of Photocopiers</b>								
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
<b>Energy-Related Space Functions (more than one may apply)</b>								
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
<b>HVAC Conservation Features (more than one may apply)</b>								
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

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

	Number of Buildings (thousand)							
	All Buildings*	Principal Building Activity						Retail (Other Than Mall)
		Education	Food Sales	Food Service	Health Care		Lodging	
				Inpatient	Outpatient			
<b>All Buildings*</b> .....	4,645	386	226	297	8	121	142	443
<b>Window and Interior Lighting Features (more than one may apply)</b>								
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>								
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.

<sup>a</sup> 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)							
	All Buildings*	Principal Building Activity						
		Education	Food Sales	Food Service	Health Care		Lodging	Retail (Other Than Mall)
				Inpatient	Outpatient			
<b>All Buildings*</b> .....	64,783	9,874	1,255	1,654	1,905	1,258	5,096	4,317
<b>Building Floorspace (Square Feet)</b>								
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
<b>Year Constructed</b>								
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
<b>Census Region and Division</b>								
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
<b>Climate Zone: 30-Year Average</b>								
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
<b>Number of Floors</b>								
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

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

	Total Floorspace (million square feet)							
	All Buildings*	Principal Building Activity						
		Education	Food Sales	Food Service	Health Care		Lodging	Retail (Other Than Mall)
				Inpatient	Outpatient			
<b>All Buildings*</b> .....	64,783	9,874	1,255	1,654	1,905	1,258	5,096	4,317
<b>Elevators and Escalators (more than one may apply)</b>								
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
<b>Number of Workers (main shift)</b>								
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
<b>Weekly Operating Hours</b>								
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
<b>Ownership and Occupancy</b>								
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
<b>Vacancy Status</b>								
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
<b>Number of Establishments</b>								
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

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

	Total Floorspace (million square feet)							
	All Buildings*	Principal Building Activity						
		Education	Food Sales	Food Service	Health Care		Lodging	Retail (Other Than Mall)
				Inpatient	Outpatient			
<b>All Buildings*</b> .....	64,783	9,874	1,255	1,654	1,905	1,258	5,096	4,317
<b>Multibuilding Facility</b>								
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
<b>Predominant Exterior Wall Material</b>								
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
<b>Predominant Roof Material</b>								
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>								
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

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

	Total Floorspace (million square feet)							
	All Buildings*	Principal Building Activity						
		Education	Food Sales	Food Service	Health Care		Lodging	Retail (Other Than Mall)
				Inpatient	Outpatient			
<b>All Buildings*</b> .....	64,783	9,874	1,255	1,654	1,905	1,258	5,096	4,317
<b>Energy Sources (more than one may apply)</b>								
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
<b>Energy End Uses (more than one may apply)</b>								
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
<b>Heating Equipment (more than one may apply)</b>								
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
<b>Cooling Equipment (more than one may apply)</b>								
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>								
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

CONTINUED

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

	Total Floorspace (million square feet)							
	All Buildings*	Principal Building Activity						
		Education	Food Sales	Food Service	Health Care		Lodging	Retail (Other Than Mall)
				Inpatient	Outpatient			
<b>All Buildings*</b> .....	64,783	9,874	1,255	1,654	1,905	1,258	5,096	4,317
<b>Office Equipment (more than one may apply)</b>								
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
<b>Number of Computers</b>								
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
<b>Number of Dedicated Servers</b>								
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
<b>Number of Photocopiers</b>								
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
<b>Energy-Related Space Functions (more than one may apply)</b>								
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
<b>HVAC Conservation Features (more than one may apply)</b>								
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

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

	Total Floorspace (million square feet)							
	All Buildings*	Principal Building Activity						
		Education	Food Sales	Food Service	Health Care		Lodging	Retail (Other Than Mall)
				Inpatient	Outpatient			
<b>All Buildings*</b> .....	64,783	9,874	1,255	1,654	1,905	1,258	5,096	4,317
<b>Window and Interior Lighting Features (more than one may apply)</b>								
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>								
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.

<sup>a</sup> 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)						
	All Buildings*	Principal Building Activity					
		Office	Public Assembly	Public Order and Safety	Religious Worship	Service	Warehouse and Storage
<b>All Buildings*</b> .....	4,645	824	277	71	370	622	597
<b>Building Floorspace (Square Feet)</b>							
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
<b>Year Constructed</b>							
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
<b>Census Region and Division</b>							
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
<b>Climate Zone: 30-Year Average</b>							
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
<b>Number of Floors</b>							
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)						
	All Buildings*	Principal Building Activity					
		Office	Public Assembly	Public Order and Safety	Religious Worship	Service	Warehouse and Storage
<b>All Buildings*</b> .....	4,645	824	277	71	370	622	597
<b>Elevators and Escalators (more than one may apply)</b>							
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
<b>Number of Workers (main shift)</b>							
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
<b>Weekly Operating Hours</b>							
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
<b>Ownership and Occupancy</b>							
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
<b>Vacancy Status</b>							
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
<b>Number of Establishments</b>							
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
<b>All Buildings*</b> .....	4,645	824	277	71	370	622	597
<b>Multibuilding Facility</b>							
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
<b>Predominant Exterior Wall Material</b>							
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
<b>Predominant Roof Material</b>							
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>							
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

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

	Number of Buildings (thousand)						
	All Buildings*	Principal Building Activity					
		Office	Public Assembly	Public Order and Safety	Religious Worship	Service	Warehouse and Storage
<b>All Buildings*</b> .....	4,645	824	277	71	370	622	597
<b>Energy Sources (more than one may apply)</b>							
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
<b>Energy End Uses (more than one may apply)</b>							
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
<b>Heating Equipment (more than one may apply)</b>							
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
<b>Cooling Equipment (more than one may apply)</b>							
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>							
Heating .....	1,197	250	82	Q	130	165	71
Cooling .....	1,356	295	89	19	135	131	87

CONTINUED

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

	Number of Buildings (thousand)						
	All Buildings*	Principal Building Activity					
		Office	Public Assembly	Public Order and Safety	Religious Worship	Service	Warehouse and Storage
<b>All Buildings*</b> .....	4,645	824	277	71	370	622	597
<b>Office Equipment (more than one may apply)</b>							
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
<b>Number of Computers</b>							
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
<b>Number of Dedicated Servers</b>							
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
<b>Number of Photocopiers</b>							
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
<b>Energy-Related Space Functions (more than one may apply)</b>							
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
<b>HVAC Conservation Features (more than one may apply)</b>							
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

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

	Number of Buildings (thousand)						
	All Buildings*	Principal Building Activity					
		Office	Public Assembly	Public Order and Safety	Religious Worship	Service	Warehouse and Storage
<b>All Buildings*</b> .....	4,645	824	277	71	370	622	597
<b>Window and Interior Lighting Features (more than one may apply)</b>							
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>							
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/cbeecs>.

\* 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.

<sup>a</sup> 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)						
	All Buildings*	Principal Building Activity					Warehouse and Storage
		Office	Public Assembly	Public Order and Safety	Religious Worship	Service	
<b>All Buildings*</b> .....	64,783	12,208	3,939	1,090	3,754	4,050	10,078
<b>Building Floorspace (Square Feet)</b>							
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
<b>Year Constructed</b>							
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
<b>Census Region and Division</b>							
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
<b>Climate Zone: 30-Year Average</b>							
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
<b>Number of Floors</b>							
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)						
	All Buildings*	Principal Building Activity					Warehouse and Storage
		Office	Public Assembly	Public Order and Safety	Religious Worship	Service	
<b>All Buildings*</b> .....	64,783	12,208	3,939	1,090	3,754	4,050	10,078
<b>Elevators and Escalators (more than one may apply)</b>							
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
<b>Number of Workers (main shift)</b>							
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
<b>Weekly Operating Hours</b>							
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
<b>Ownership and Occupancy</b>							
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
<b>Vacancy Status</b>							
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
<b>Number of Establishments</b>							
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)						
	All Buildings*	Principal Building Activity					
		Office	Public Assembly	Public Order and Safety	Religious Worship	Service	Warehouse and Storage
<b>All Buildings*</b> .....	64,783	12,208	3,939	1,090	3,754	4,050	10,078
<b>Multibuilding Facility</b>							
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
<b>Predominant Exterior Wall Material</b>							
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
<b>Predominant Roof Material</b>							
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>							
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)						
	All Buildings*	Principal Building Activity					
		Office	Public Assembly	Public Order and Safety	Religious Worship	Service	Warehouse and Storage
<b>All Buildings*</b> .....	64,783	12,208	3,939	1,090	3,754	4,050	10,078
<b>Energy Sources (more than one may apply)</b>							
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
<b>Energy End Uses (more than one may apply)</b>							
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
<b>Heating Equipment (more than one may apply)</b>							
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
<b>Cooling Equipment (more than one may apply)</b>							
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>							
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)						
	All Buildings*	Principal Building Activity					Warehouse and Storage
		Office	Public Assembly	Public Order and Safety	Religious Worship	Service	
<b>All Buildings*</b> .....	64,783	12,208	3,939	1,090	3,754	4,050	10,078
<b>Office Equipment (more than one may apply)</b>							
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
<b>Number of Computers</b>							
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
<b>Number of Dedicated Servers</b>							
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
<b>Number of Photocopiers</b>							
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
<b>Energy-Related Space Functions (more than one may apply)</b>							
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
<b>HVAC Conservation Features (more than one may apply)</b>							
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)						
	All Buildings*	Principal Building Activity					
		Office	Public Assembly	Public Order and Safety	Religious Worship	Service	Warehouse and Storage
<b>All Buildings*</b> .....	64,783	12,208	3,939	1,090	3,754	4,050	10,078
<b>Window and Interior Lighting Features (more than one may apply)</b>							
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>							
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

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.

<sup>a</sup> 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)							
	All Buildings*	Number of Workers						
		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
<b>All Buildings*</b> .....	4,645	2,653	778	563	398	147	77	30
<b>Building Floorspace (Square Feet)</b>								
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
<b>Principal Building Activity</b>								
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
<b>Year Constructed</b>								
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
<b>Census Region</b>								
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
<b>Climate Zone: 30-Year Average</b>								
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)							
	All Buildings*	Number of Workers						
		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
<b>All Buildings*</b> .....	4,645	2,653	778	563	398	147	77	30
<b>Number of Floors</b>								
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
<b>Elevators and Escalators (more than one may apply)</b>								
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
<b>Weekly Operating Hours</b>								
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
<b>Ownership and Occupancy</b>								
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
<b>Vacancy Status</b>								
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
<b>Number of Establishments</b>								
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

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

	Number of Buildings (thousand)							
	All Buildings*	Number of Workers						
		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
<b>All Buildings*</b> .....	4,645	2,653	778	563	398	147	77	30
<b>Energy Sources (more than one may apply)</b>								
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
<b>Energy End Uses (more than one may apply)</b>								
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
<b>Heating Equipment (more than one may apply)</b>								
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
<b>Cooling Equipment (more than one may apply)</b>								
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>								
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)							
	All Buildings*	Number of Workers						
		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
<b>All Buildings*</b> .....	4,645	2,653	778	563	398	147	77	30
<b>Office Equipment (more than one may apply)</b>								
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
<b>Number of Computers</b>								
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
<b>Number of Dedicated Servers</b>								
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
<b>Number of Photocopiers</b>								
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
<b>Energy-Related Space Functions (more than one may apply)</b>								
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
<b>HVAC Conservation Features (more than one may apply)</b>								
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

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

	Number of Buildings (thousand)							
	All Buildings*	Number of Workers						
		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
<b>All Buildings*</b> .....	4,645	2,653	778	563	398	147	77	30
<b>Window and Interior Lighting Features (more than one may apply)</b>								
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>								
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.

<sup>a</sup> 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)							
	All Buildings*	Number of Workers						
		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
<b>All Buildings*</b> .....	64,783	15,492	6,166	7,803	10,989	7,934	6,871	9,528
<b>Building Floorspace (Square Feet)</b>								
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
<b>Principal Building Activity</b>								
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
<b>Year Constructed</b>								
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
<b>Census Region</b>								
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
<b>Climate Zone: 30-Year Average</b>								
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)							
	All Buildings*	Number of Workers						
		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
<b>All Buildings*</b> .....	64,783	15,492	6,166	7,803	10,989	7,934	6,871	9,528
<b>Number of Floors</b>								
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
<b>Elevators and Escalators (more than one may apply)</b>								
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
<b>Weekly Operating Hours</b>								
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
<b>Ownership and Occupancy</b>								
Nongovernment Owned .....								
Owner Occupied .....	49,421	13,316	5,386	6,790	7,940	4,556	4,139	7,293
Nonowner Occupied .....	23,591	5,546	2,802	3,668	3,499	2,138	2,262	3,677
Unoccupied .....	23,914	5,854	2,585	3,123	4,441	2,417	1,877	3,617
Government Owned .....								
Federal .....	1,916	1,916	N	N	N	N	N	N
State .....	15,363	2,176	780	1,013	3,049	3,378	2,732	2,235
Local .....	1,956	Q	Q	Q	Q	Q	Q	761
	3,808	456	Q	277	916	803	681	493
	9,599	1,128	495	678	2,022	2,340	1,956	981
<b>Vacancy Status</b>								
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
<b>Number of Establishments</b>								
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)							
	All Buildings*	Number of Workers						
		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
<b>All Buildings*</b> .....	64,783	15,492	6,166	7,803	10,989	7,934	6,871	9,528
<b>Energy Sources (more than one may apply)</b>								
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
<b>Energy End Uses (more than one may apply)</b>								
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
<b>Heating Equipment (more than one may apply)</b>								
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
<b>Cooling Equipment (more than one may apply)</b>								
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>								
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)							
	All Buildings*	Number of Workers						
		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
<b>All Buildings*</b> .....	64,783	15,492	6,166	7,803	10,989	7,934	6,871	9,528
<b>Office Equipment (more than one may apply)</b>								
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
<b>Number of Computers</b>								
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
<b>Number of Dedicated Servers</b>								
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
<b>Number of Photocopiers</b>								
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
<b>Energy-Related Space Functions (more than one may apply)</b>								
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
<b>HVAC Conservation Features (more than one may apply)</b>								
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)							
	All Buildings*	Number of Workers						
		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
<b>All Buildings*</b> .....	64,783	15,492	6,166	7,803	10,989	7,934	6,871	9,528
<b>Window and Interior Lighting Features (more than one may apply)</b>								
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>								
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.

<sup>a</sup> 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)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
<b>All Buildings*</b> .....	4,645	4,011	1,841	2,029	141	635	46	164	425
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Census Region</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
<b>All Buildings*</b> .....	4,645	4,011	1,841	2,029	141	635	46	164	425
<b>Number of Floors</b>									
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
<b>Elevators and Escalators (more than one may apply)</b>									
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
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Vacancy Status</b>									
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
<b>Number of Establishments</b>									
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)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
<b>All Buildings*</b> .....	4,645	4,011	1,841	2,029	141	635	46	164	425
<b>Multibuilding Facility</b>									
Not Part of a Multibuilding Facility .....									
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
<b>Predominant Exterior Wall Material</b>									
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
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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

CONTINUED

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

	Number of Buildings (thousand)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
<b>All Buildings*</b> .....	4,645	4,011	1,841	2,029	141	635	46	164	425
<b>Energy Sources (more than one may apply)</b>									
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
<b>Space-Heating Energy Sources (more than one may apply)</b>									
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
<b>Primary Space-Heating Energy Source</b>									
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
<b>Cooling Energy Sources (more than one may apply)</b>									
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
<b>Water-Heating Energy Sources (more than one may apply)</b>									
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
<b>Cooking Energy Sources (more than one may apply)</b>									
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)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
<b>All Buildings*</b> .....	4,645	4,011	1,841	2,029	141	635	46	164	425
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Percent of Floorspace Heated</b>									
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
<b>Percent of Floorspace Cooled</b>									
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
<b>Percent Lit When Open</b>									
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
<b>Percent Lit When Closed</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
<b>All Buildings*</b> .....	4,645	4,011	1,841	2,029	141	635	46	164	425
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
Heating .....	1,197	1,047	537	487	Q	150	7	42	101
Cooling .....	1,356	1,187	617	557	Q	170	15	44	111
<b>Water Heating Equipment</b>									
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
<b>Lighting Equipment Types (more than one may apply)</b>									
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>									
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)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
<b>All Buildings*</b> .....	4,645	4,011	1,841	2,029	141	635	46	164	425
<b>Office Equipment (more than one may apply)</b>									
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
<b>Number of Computers</b>									
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
<b>Number of Dedicated Servers</b>									
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
<b>Number of Photocopiers</b>									
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
<b>Energy-Related Space Functions (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
<b>All Buildings*</b> .....	4,645	4,011	1,841	2,029	141	635	46	164	425
<b>Window and Interior Lighting Features (more than one may apply)</b>									
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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.

<sup>a</sup> 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)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
<b>All Buildings*</b> .....	64,783	49,421	23,591	23,914	1,916	15,363	1,956	3,808	9,599
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Census Region</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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

	Total Floorspace (million square feet)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
<b>All Buildings*</b> .....	64,783	49,421	23,591	23,914	1,916	15,363	1,956	3,808	9,599
<b>Number of Floors</b>									
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
<b>Elevators and Escalators (more than one may apply)</b>									
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
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Vacancy Status</b>									
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
<b>Number of Establishments</b>									
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)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
<b>All Buildings*</b> .....	64,783	49,421	23,591	23,914	1,916	15,363	1,956	3,808	9,599
<b>Multibuilding Facility</b>									
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
<b>Predominant Exterior Wall Material</b>									
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
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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

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

	Total Floorspace (million square feet)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
<b>All Buildings*</b> .....	64,783	49,421	23,591	23,914	1,916	15,363	1,956	3,808	9,599
<b>Energy Sources (more than one may apply)</b>									
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
<b>Space-Heating Energy Sources (more than one may apply)</b>									
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
<b>Primary Space-Heating Energy Source</b>									
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
<b>Cooling Energy Sources (more than one may apply)</b>									
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
<b>Water-Heating Energy Sources (more than one may apply)</b>									
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
<b>Cooking Energy Sources (more than one may apply)</b>									
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



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

	Total Floorspace (million square feet)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
<b>All Buildings*</b> .....	64,783	49,421	23,591	23,914	1,916	15,363	1,956	3,808	9,599
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Percent of Floorspace Heated</b>									
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
<b>Percent of Floorspace Cooled</b>									
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
<b>Percent Lit When Open</b>									
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
<b>Percent Lit When Closed</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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

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

	Total Floorspace (million square feet)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
<b>All Buildings*</b> .....	64,783	49,421	23,591	23,914	1,916	15,363	1,956	3,808	9,599
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
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
<b>Water Heating Equipment</b>									
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
<b>Lighting Equipment Types (more than one may apply)</b>									
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>									
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

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

	Total Floorspace (million square feet)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
<b>All Buildings*</b> .....	64,783	49,421	23,591	23,914	1,916	15,363	1,956	3,808	9,599
<b>Office Equipment (more than one may apply)</b>									
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
<b>Number of Computers</b>									
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
<b>Number of Dedicated Servers</b>									
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
<b>Number of Photocopiers</b>									
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
<b>Energy-Related Space Functions (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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

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

	Total Floorspace (million square feet)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
<b>All Buildings*</b> .....	64,783	49,421	23,591	23,914	1,916	15,363	1,956	3,808	9,599
<b>Window and Interior Lighting Features (more than one may apply)</b>									
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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.

<sup>a</sup> 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)						
	All Buildings*	Number of Establishments in Building					
		One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
<b>All Buildings*</b> .....	4,645	3,754	643	55	23	14	157
<b>Building Floorspace (Square Feet)</b>							
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
<b>Principal Building Activity</b>							
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
<b>Year Constructed</b>							
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
<b>Census Region</b>							
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
<b>Climate Zone: 30-Year Average</b>							
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

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

	Number of Buildings (thousand)						
	All Buildings*	Number of Establishments in Building					
		One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
<b>All Buildings*</b> .....	4,645	3,754	643	55	23	14	157
<b>Number of Floors</b>							
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
<b>Elevators and Escalators (more than one may apply)</b>							
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
<b>Number of Workers (main shift)</b>							
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
<b>Weekly Operating Hours</b>							
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
<b>Ownership and Occupancy</b>							
Nongovernment Owned .....							
Owner Occupied .....	4,011	3,200	584	50	22	13	141
Nonowner Occupied .....	1,841	1,460	342	23	10	5	N
Unoccupied .....	2,029	1,740	242	27	12	8	N
Government Owned .....							
Federal .....	141	N	N	N	N	N	141
State .....	635	553	59	5	Q	Q	Q
Local .....	46	41	Q	Q	Q	Q	Q
State .....	164	147	13	Q	Q	Q	Q
Local .....	425	366	41	Q	Q	Q	Q
<b>Vacancy Status</b>							
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)						
	All Buildings*	Number of Establishments in Building					
		One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
<b>All Buildings*</b> .....	4,645	3,754	643	55	23	14	157
<b>Multibuilding Facility</b>							
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
<b>Energy Sources (more than one may apply)</b>							
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
<b>Energy End Uses (more than one may apply)</b>							
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
<b>Heating Equipment (more than one may apply)</b>							
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

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

	Number of Buildings (thousand)						
	All Buildings*	Number of Establishments in Building					
		One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
<b>All Buildings*</b> .....	4,645	3,754	643	55	23	14	157
<b>Cooling Equipment (more than one may apply)</b>							
<b>Residential-Type Central</b>							
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
<b>Packaged Air Conditioning</b>							
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>							
Heating .....	1,197	949	197	16	7	4	Q
Cooling .....	1,356	1,078	236	19	8	4	Q
<b>Office Equipment (more than one may apply)</b>							
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
<b>Number of Computers</b>							
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
<b>Number of Dedicated Servers</b>							
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
<b>Number of Photocopiers</b>							
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



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

	Number of Buildings (thousand)						
	All Buildings*	Number of Establishments in Building					
		One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
<b>All Buildings*</b> .....	4,645	3,754	643	55	23	14	157
<b>Energy-Related Space Functions (more than one may apply)</b>							
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
<b>HVAC Conservation Features (more than one may apply)</b>							
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
<b>Window and Interior Lighting Features (more than one may apply)</b>							
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>							
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.

<sup>a</sup> 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)						
	All Buildings*	Number of Establishments in Building					
		One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
<b>All Buildings*</b> .....	64,783	45,144	10,960	1,958	1,951	2,609	2,161
<b>Building Floorspace (Square Feet)</b>							
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
<b>Principal Building Activity</b>							
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
<b>Year Constructed</b>							
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
<b>Census Region</b>							
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
<b>Climate Zone: 30-Year Average</b>							
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

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

	Total Floorspace (million square feet)						
	All Buildings*	Number of Establishments in Building					
		One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
<b>All Buildings*</b> .....	64,783	45,144	10,960	1,958	1,951	2,609	2,161
<b>Number of Floors</b>							
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
<b>Elevators and Escalators (more than one may apply)</b>							
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
<b>Number of Workers (main shift)</b>							
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
<b>Weekly Operating Hours</b>							
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
<b>Ownership and Occupancy</b>							
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
<b>Vacancy Status</b>							
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

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

	Total Floorspace (million square feet)						
	All Buildings*	Number of Establishments in Building					
		One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
<b>All Buildings*</b> .....	64,783	45,144	10,960	1,958	1,951	2,609	2,161
<b>Multibuilding Facility</b>							
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
<b>Energy Sources (more than one may apply)</b>							
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
<b>Energy End Uses (more than one may apply)</b>							
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
<b>Heating Equipment (more than one may apply)</b>							
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

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

	Total Floorspace (million square feet)						
	All Buildings*	Number of Establishments in Building					
		One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
<b>All Buildings*</b> .....	64,783	45,144	10,960	1,958	1,951	2,609	2,161
<b>Cooling Equipment (more than one may apply)</b>							
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>							
Heating .....	16,403	11,523	2,890	559	798	405	Q
Cooling .....	20,995	14,585	3,831	699	655	1,147	Q
<b>Office Equipment (more than one may apply)</b>							
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
<b>Number of Computers</b>							
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
<b>Number of Dedicated Servers</b>							
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
<b>Number of Photocopiers</b>							
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

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

	Total Floorspace (million square feet)						
	All Buildings*	Number of Establishments in Building					
		One	Two to Five	Six to Ten	Eleven to Twenty	More than Twenty	Currently Unoccupied
<b>All Buildings*</b> .....	64,783	45,144	10,960	1,958	1,951	2,609	2,161
<b>Energy-Related Space Functions (more than one may apply)</b>							
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
<b>HVAC Conservation Features (more than one may apply)</b>							
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
<b>Window and Interior Lighting Features (more than one may apply)</b>							
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>							
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.

<sup>a</sup> 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)		
	All Buildings*	Buildings on Multibuilding Facilities		All Buildings*	Buildings on Multibuilding Facilities	
		All Buildings	With Central Physical Plant		All Buildings	With Central Physical Plant
<b>All Buildings*</b> .....	4,645	1,477	116	64,783	24,735	6,604
<b>Building Floorspace (Square Feet)</b>						
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
<b>Principal Building Activity</b>						
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
<b>Year Constructed</b>						
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
<b>Census Region</b>						
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

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

	Number of Buildings (thousand)			Total Floorspace (million square feet)		
	All Buildings*	Buildings on Multibuilding Facilities		All Buildings*	Buildings on Multibuilding Facilities	
		All Buildings	With Central Physical Plant		All Buildings	With Central Physical Plant
<b>All Buildings*</b> .....	4,645	1,477	116	64,783	24,735	6,604
<b>Number of Workers (main shift)</b>						
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
<b>Weekly Operating Hours</b>						
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
<b>Ownership and Occupancy</b>						
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
<b>Vacancy Status</b>						
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
<b>Multibuilding Facility Activity</b>						
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
<b>Central Plant that Produces</b>						
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



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

	Number of Buildings (thousand)			Total Floorspace (million square feet)		
	All Buildings*	Buildings on Multibuilding Facilities		All Buildings*	Buildings on Multibuilding Facilities	
		All Buildings	With Central Physical Plant		All Buildings	With Central Physical Plant
<b>All Buildings*</b> .....	4,645	1,477	116	64,783	24,735	6,604
<b>Energy Sources (more than one may apply)</b>						
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
<b>Energy End Uses (more than one may apply)</b>						
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.

<sup>a</sup> 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)								
	All Buildings*	Buildings Using Any Energy Source	Energy Sources Used (more than one may apply)						
			Electricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Other <sup>a</sup>
<b>All Buildings*</b> .....	4,645	4,414	4,404	2,391	451	67	33	502	132
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Census Region</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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)								
	All Buildings*	Buildings Using Any Energy Source	Energy Sources Used (more than one may apply)						
			Electricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Other <sup>a</sup>
<b>All Buildings*</b> .....	4,645	4,414	4,404	2,391	451	67	33	502	132
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
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
<b>Vacancy Status</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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)								
	All Buildings*	Buildings Using Any Energy Source	Energy Sources Used (more than one may apply)						
			Elec- tricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Other <sup>a</sup>
<b>All Buildings*</b> .....	4,645	4,414	4,404	2,391	451	67	33	502	132
<b>Energy-Related Space Functions (more than one may apply)</b>									
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.

<sup>a</sup> "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)								
	All Buildings*	Buildings Using Any Energy Source	Energy Sources Used (more than one may apply)						
			Electricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Other <sup>a</sup>
<b>All Buildings*</b> .....	64,783	63,343	63,307	43,468	15,157	5,443	2,853	7,076	1,401
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Census Region</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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)								
	All Buildings*	Buildings Using Any Energy Source	Energy Sources Used (more than one may apply)						
			Electricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Other <sup>a</sup>
<b>All Buildings*</b> .....	64,783	63,343	63,307	43,468	15,157	5,443	2,853	7,076	1,401
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
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
<b>Vacancy Status</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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)								
	All Buildings*	Buildings Using Any Energy Source	Energy Sources Used (more than one may apply)						
			Electricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Other <sup>a</sup>
<b>All Buildings*</b> .....	64,783	63,343	63,307	43,468	15,157	5,443	2,853	7,076	1,401
<b>Energy-Related Space Functions (more than one may apply)</b>									
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.

<sup>a</sup> "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)					
	All Buildings*	Energy Used For (more than one may apply)				
		Space Heating	Cooling	Water Heating	Cooking	Manu- facturing
<b>All Buildings*</b> .....	4,645	3,982	3,625	3,472	801	119
<b>Building Floorspace (Square Feet)</b>						
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
<b>Principal Building Activity</b>						
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
<b>Year Constructed</b>						
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
<b>Census Region</b>						
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
<b>Climate Zone: 30-Year Average</b>						
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



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

	Number of Buildings (thousand)					
	All Buildings*	Energy Used For (more than one may apply)				
		Space Heating	Cooling	Water Heating	Cooking	Manu- facturing
<b>All Buildings*</b> .....	4,645	3,982	3,625	3,472	801	119
<b>Number of Workers (main shift)</b>						
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
<b>Weekly Operating Hours</b>						
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
<b>Energy Sources (more than one may apply)</b>						
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
<b>Energy End Uses (more than one may apply)</b>						
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
<b>Energy-Related Space Functions (more than one may apply)</b>						
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/cbeecs>.

\* 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)					
	All Buildings*	Energy Used For (more than one may apply)				
		Space Heating	Cooling	Water Heating	Cooking	Manufacturing
<b>All Buildings*</b> .....	64,783	60,028	56,940	56,478	22,237	3,138
<b>Building Floorspace (Square Feet)</b>						
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
<b>Principal Building Activity</b>						
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
<b>Year Constructed</b>						
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
<b>Census Region</b>						
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
<b>Climate Zone: 30-Year Average</b>						
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)					
	All Buildings*	Energy Used For (more than one may apply)				
		Space Heating	Cooling	Water Heating	Cooking	Manu- facturing
<b>All Buildings*</b> .....	64,783	60,028	56,940	56,478	22,237	3,138
<b>Number of Workers (main shift)</b>						
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
<b>Weekly Operating Hours</b>						
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
<b>Energy Sources (more than one may apply)</b>						
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
<b>Energy End Uses (more than one may apply)</b>						
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
<b>Energy-Related Space Functions (more than one may apply)</b>						
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/cbeecs>.

\* 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)							
	All Buildings*	Buildings with Space Heating	Space-Heating Energy Sources Used (more than one may apply)					
			Elec- tricity	Natural Gas	Fuel Oil	District Heat	Propane	Other <sup>a</sup>
<b>All Buildings*</b> .....	4,645	3,982	1,766	2,165	360	65	372	113
<b>Building Floorspace (Square Feet)</b>								
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
<b>Principal Building Activity</b>								
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
<b>Year Constructed</b>								
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
<b>Census Region and Division</b>								
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

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

	Number of Buildings (thousand)							
	All Buildings*	Buildings with Space Heating	Space-Heating Energy Sources Used (more than one may apply)					
			Elec- tricity	Natural Gas	Fuel Oil	District Heat	Propane	Other <sup>a</sup>
<b>All Buildings*</b> .....	4,645	3,982	1,766	2,165	360	65	372	113
<b>Climate Zone: 30-Year Average</b>								
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
<b>Number of Workers (main shift)</b>								
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
<b>Weekly Operating Hours</b>								
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
<b>Energy Sources (more than one may apply)</b>								
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
<b>Primary Space-Heating Energy Source</b>								
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
<b>Cooling Energy Sources (more than one may apply)</b>								
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

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

	Number of Buildings (thousand)							
	All Buildings*	Buildings with Space Heating	Space-Heating Energy Sources Used (more than one may apply)					
			Elec- tricity	Natural Gas	Fuel Oil	District Heat	Propane	Other <sup>a</sup>
<b>All Buildings*</b> .....	4,645	3,982	1,766	2,165	360	65	372	113
<b>Water-Heating Energy Sources (more than one may apply)</b>								
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
<b>Cooking Energy Sources (more than one may apply)</b>								
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
<b>Energy End Uses (more than one may apply)</b>								
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
<b>Percent of Floorspace Heated</b>								
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
<b>Heating Equipment (more than one may apply)</b>								
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.

<sup>a</sup> "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)							
	All Buildings*	Buildings with Space Heating	Space-Heating Energy Sources Used (more than one may apply)					
			Elec-tricity	Natural Gas	Fuel Oil	District Heat	Propane	Other <sup>a</sup>
<b>All Buildings*</b> .....	64,783	60,028	28,600	36,959	5,988	5,198	3,204	842
<b>Building Floorspace (Square Feet)</b>								
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
<b>Principal Building Activity</b>								
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
<b>Year Constructed</b>								
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
<b>Census Region and Division</b>								
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)							
	All Buildings*	Buildings with Space Heating	Space-Heating Energy Sources Used (more than one may apply)					
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane	Other <sup>a</sup>
<b>All Buildings*</b> .....	64,783	60,028	28,600	36,959	5,988	5,198	3,204	842
<b>Climate Zone: 30-Year Average</b>								
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
<b>Number of Workers (main shift)</b>								
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
<b>Weekly Operating Hours</b>								
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
<b>Energy Sources (more than one may apply)</b>								
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
<b>Primary Space-Heating Energy Source</b>								
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
<b>Cooling Energy Sources (more than one may apply)</b>								
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)							
	All Buildings*	Buildings with Space Heating	Space-Heating Energy Sources Used (more than one may apply)					
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane	Other <sup>a</sup>
<b>All Buildings*</b> .....	64,783	60,028	28,600	36,959	5,988	5,198	3,204	842
<b>Water-Heating Energy Sources (more than one may apply)</b>								
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
<b>Cooking Energy Sources (more than one may apply)</b>								
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
<b>Energy End Uses (more than one may apply)</b>								
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
<b>Percent of Floorspace Heated</b>								
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
<b>Heating Equipment (more than one may apply)</b>								
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.

<sup>a</sup> "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)					
	All Buildings*	Buildings with Space Heating	Primary Space-Heating Energy Source Used <sup>a</sup>			
			Electricity	Natural Gas	Fuel Oil	District Heat
<b>All Buildings*</b> .....	4,645	3,982	1,258	1,999	282	63
<b>Building Floorspace (Square Feet)</b>						
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
<b>Principal Building Activity</b>						
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
<b>Year Constructed</b>						
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
<b>Census Region and Division</b>						
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

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

	Number of Buildings (thousand)					
	All Buildings*	Buildings with Space Heating	Primary Space-Heating Energy Source Used <sup>a</sup>			
			Electricity	Natural Gas	Fuel Oil	District Heat
<b>All Buildings*</b> .....	4,645	3,982	1,258	1,999	282	63
<b>Climate Zone: 30-Year Average</b>						
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	1,051	433	508	Q	11
2,000 CDD or More and --						
Fewer than 4,000 HDD .....	669	498	372	112	Q	6
<b>Number of Workers (main shift)</b>						
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
<b>Weekly Operating Hours</b>						
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
<b>Energy Sources (more than one may apply)</b>						
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
<b>Energy End Uses (more than one may apply)</b>						
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
<b>Percent of Floorspace Heated</b>						
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

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

	Number of Buildings (thousand)					
	All Buildings*	Buildings with Space Heating	Primary Space-Heating Energy Source Used <sup>a</sup>			
			Electricity	Natural Gas	Fuel Oil	District Heat
<b>All Buildings*</b> .....	4,645	3,982	1,258	1,999	282	63
<b>Heating Equipment (more than one may apply)</b>						
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/cbeecs>.

\* 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.

<sup>a</sup> 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)					
	All Buildings*	Buildings with Space Heating	Primary Space-Heating Energy Source Used <sup>a</sup>			
			Electricity	Natural Gas	Fuel Oil	District Heat
<b>All Buildings*</b> .....	64,783	60,028	15,996	32,970	3,818	4,907
<b>Building Floorspace (Square Feet)</b>						
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
<b>Principal Building Activity</b>						
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
<b>Year Constructed</b>						
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
<b>Census Region and Division</b>						
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

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

	Total Floorspace (million square feet)					
	All Buildings*	Buildings with Space Heating	Primary Space-Heating Energy Source Used <sup>a</sup>			
			Electricity	Natural Gas	Fuel Oil	District Heat
<b>All Buildings*</b> .....	64,783	60,028	15,996	32,970	3,818	4,907
<b>Climate Zone: 30-Year Average</b>						
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
<b>Number of Workers (main shift)</b>						
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
<b>Weekly Operating Hours</b>						
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
<b>Energy Sources (more than one may apply)</b>						
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
<b>Energy End Uses (more than one may apply)</b>						
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
<b>Percent of Floorspace Heated</b>						
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

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

	Total Floorspace (million square feet)					
	All Buildings*	Buildings with Space Heating	Primary Space-Heating Energy Source Used <sup>a</sup>			
			Electricity	Natural Gas	Fuel Oil	District Heat
<b>All Buildings*</b> .....	64,783	60,028	15,996	32,970	3,818	4,907
<b>Heating Equipment (more than one may apply)</b>						
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.

<sup>a</sup> 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)				
	All Buildings*	Buildings with Cooling	Cooling Energy Sources (more than one may apply)			All Buildings*	Buildings with Cooling	Cooling Energy Sources (more than one may apply)		
			Electricity	Natural Gas	District Chilled Water			Electricity	Natural Gas	District Chilled Water
<b>All Buildings*</b> .....	4,645	3,625	3,589	17	33	64,783	56,940	54,321	1,018	2,853
<b>Building Floorspace (Square Feet)</b>										
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
<b>Principal Building Activity</b>										
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
<b>Year Constructed</b>										
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
<b>Census Region and Division</b>										
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



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**Table B30. Cooling 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 Cooling	Cooling Energy Sources (more than one may apply)			All Build-ings*	Build-ings with Cooling	Cooling Energy Sources (more than one may apply)		
			Elec-tricity	Natural Gas	District Chilled Water			Elec-tricity	Natural Gas	District Chilled Water
<b>All Buildings*</b> .....	4,645	3,625	3,589	17	33	64,783	56,940	54,321	1,018	2,853
<b>Climate Zone: 30-Year Average</b>										
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
<b>Number of Workers (main shift)</b>										
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
<b>Weekly Operating Hours</b>										
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
<b>Energy Sources (more than one may apply)</b>										
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
<b>Primary Space-Heating Energy Source</b>										
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
<b>Water-Heating Energy Sources (more than one may apply)</b>										
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

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**Table B30. Cooling 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 Cooling	Cooling Energy Sources (more than one may apply)			All Build-ings*	Build-ings with Cooling	Cooling Energy Sources (more than one may apply)		
			Elec-tricity	Natural Gas	District Chilled Water			Elec-tricity	Natural Gas	District Chilled Water
<b>All Buildings*</b> .....	4,645	3,625	3,589	17	33	64,783	56,940	54,321	1,018	2,853
<b>Cooking Energy Sources (more than one may apply)</b>										
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
<b>Energy End Uses (more than one may apply)</b>										
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
<b>Percent of Floorspace Cooled</b>										
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
<b>Cooling Equipment (more than one may apply)</b>										
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/cbeecs>.

\* 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)						
	All Buildings*	Buildings with Water Heating	Water-Heating Energy Sources Used (more than one may apply)				
			Elec- tricity	Natural Gas	Fuel Oil	District Heat	Propane
<b>All Buildings*</b> .....	4,645	3,472	1,910	1,445	94	27	128
<b>Building Floorspace (Square Feet)</b>							
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
<b>Principal Building Activity</b>							
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
<b>Year Constructed</b>							
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
<b>Census Region and Division</b>							
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

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

	Number of Buildings (thousand)						
	All Buildings*	Buildings with Water Heating	Water-Heating Energy Sources Used (more than one may apply)				
			Elec-tricity	Natural Gas	Fuel Oil	District Heat	Propane
<b>All Buildings*</b> .....	4,645	3,472	1,910	1,445	94	27	128
<b>Climate Zone: 30-Year Average</b>							
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
<b>Number of Workers (main shift)</b>							
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
<b>Weekly Operating Hours</b>							
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
<b>Energy Sources (more than one may apply)</b>							
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
<b>Primary Space-Heating Energy Source</b>							
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
<b>Cooking Energy Sources (more than one may apply)</b>							
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

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

	Number of Buildings (thousand)						
	All Buildings*	Buildings with Water Heating	Water-Heating Energy Sources Used (more than one may apply)				
			Elec-tricity	Natural Gas	Fuel Oil	District Heat	Propane
<b>All Buildings*</b> .....	4,645	3,472	1,910	1,445	94	27	128
<b>Energy End Uses (more than one may apply)</b>							
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
<b>Water Heating Equipment</b>							
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)						
	All Buildings*	Buildings with Water Heating	Water-Heating Energy Sources Used (more than one may apply)				
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane
<b>All Buildings*</b> .....	64,783	56,478	27,490	28,820	1,880	3,088	1,422
<b>Building Floorspace (Square Feet)</b>							
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
<b>Principal Building Activity</b>							
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
<b>Year Constructed</b>							
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
<b>Census Region and Division</b>							
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)						
	All Buildings*	Buildings with Water Heating	Water-Heating Energy Sources Used (more than one may apply)				
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane
<b>All Buildings*</b> .....	64,783	56,478	27,490	28,820	1,880	3,088	1,422
<b>Climate Zone: 30-Year Average</b>							
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
<b>Number of Workers (main shift)</b>							
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
<b>Weekly Operating Hours</b>							
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
<b>Energy Sources (more than one may apply)</b>							
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
<b>Primary Space-Heating Energy Source</b>							
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
<b>Cooking Energy Sources (more than one may apply)</b>							
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)						
	All Buildings*	Buildings with Water Heating	Water-Heating Energy Sources Used (more than one may apply)				
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane
<b>All Buildings*</b> .....	64,783	56,478	27,490	28,820	1,880	3,088	1,422
<b>Energy End Uses (more than one may apply)</b>							
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
<b>Water Heating Equipment</b>							
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)				
	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)		
			Elec-tricity	Natural Gas	Propane			Elec-tricity	Natural Gas	Propane
<b>All Buildings*</b> .....	4,645	801	410	457	108	64,783	22,237	13,161	15,438	1,460
<b>Building Floorspace (Square Feet)</b>										
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
<b>Principal Building Activity</b>										
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
<b>Year Constructed</b>										
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
<b>Census Region and Division</b>										
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

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**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
<b>All Buildings*</b> .....	4,645	801	410	457	108	64,783	22,237	13,161	15,438	1,460
<b>Climate Zone: 30-Year Average</b>										
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
<b>Number of Workers (main shift)</b>										
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
<b>Weekly Operating Hours</b>										
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
<b>Energy Sources (more than one may apply)</b>										
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
<b>Water-Heating Energy Sources (more than one may apply)</b>										
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

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**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
<b>All Buildings*</b> .....	4,645	801	410	457	108	64,783	22,237	13,161	15,438	1,460
<b>Energy End Uses (more than one may apply)</b>										
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
<b>All Buildings*</b> .....	4,645	663	523	498	2,962	64,783	4,756	6,850	8,107	45,071
<b>Building Floorspace (Square Feet)</b>										
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
<b>Principal Building Activity</b>										
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
<b>Year Constructed</b>										
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
<b>Census Region</b>										
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
<b>Climate Zone: 30-Year Average</b>										
Under 2,000 CDD and --										
More than 7,000 HDD .....	855	103	97	95	560	10,622	513	1,111	1,377	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

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**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
<b>All Buildings*</b> .....	4,645	663	523	498	2,962	64,783	4,756	6,850	8,107	45,071
<b>Number of Floors</b>										
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
<b>Number of Workers (main shift)</b>										
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
<b>Weekly Operating Hours</b>										
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
<b>Vacancy Status</b>										
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
<b>Energy Sources (more than one may apply)</b>										
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
<b>Space-Heating Energy Sources (more than one may apply)</b>										
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

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**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
<b>All Buildings* .....</b>	4,645	663	523	498	2,962	64,783	4,756	6,850	8,107	45,071
<b>Primary Space-Heating Energy Source</b>										
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
<b>Energy End Uses (more than one may apply)</b>										
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
<b>Percent of Floorspace Cooled</b>										
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
<b>Percent Lit When Open</b>										
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
<b>Heating Equipment (more than one may apply)</b>										
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
<b>HVAC Conservation Features (more than one may apply)</b>										
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

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**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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>										
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/cbeecs>.

\* 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.

<sup>a</sup> 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 Buildings*	Not Cooled	1 to 50 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled	All Buildings*	Not Cooled	1 to 50 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled
<b>All Buildings*</b> .....	4,645	1,020	985	629	2,011	64,783	7,843	16,598	13,211	27,132
<b>Building Floorspace (Square Feet)</b>										
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
<b>Principal Building Activity</b>										
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
<b>Year Constructed</b>										
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
<b>Census Region</b>										
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
<b>Climate Zone: 30-Year Average</b>										
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



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**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
<b>All Buildings*</b> .....	4,645	1,020	985	629	2,011	64,783	7,843	16,598	13,211	27,132
<b>Number of Floors</b>										
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
<b>Number of Workers (main shift)</b>										
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
<b>Weekly Operating Hours</b>										
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
<b>Vacancy Status</b>										
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
<b>Energy Sources (more than one may apply)</b>										
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
<b>Cooling Energy Sources (more than one may apply)</b>										
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
<b>Energy End Uses (more than one may apply)</b>										
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

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**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
<b>All Buildings*</b> .....	4,645	1,020	985	629	2,011	64,783	7,843	16,598	13,211	27,132
<b>Percent of Floorspace Heated</b>										
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
<b>Percent Lit When Open</b>										
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
<b>Cooling Equipment (more than one may apply)</b>										
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
<b>HVAC Conservation Features (more than one may apply)</b>										
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>										
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/cbeecs>.

\* 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.

<sup>a</sup> 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 <sup>a</sup>	1 to 50 Percent Lit	51 to 99 Percent Lit	100 Percent Lit	All Build-ings*	Not Lit <sup>a</sup>	1 to 50 Percent Lit	51 to 99 Percent Lit	100 Percent Lit
<b>All Buildings*</b> .....	4,645	432	929	1,108	2,176	64,783	3,503	10,203	18,288	32,789
<b>Building Floorspace (Square Feet)</b>										
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
<b>Principal Building Activity</b>										
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
<b>Year Constructed</b>										
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
<b>Census Region</b>										
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
<b>Climate Zone: 30-Year Average</b>										
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

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**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 <sup>a</sup>	1 to 50 Percent Lit	51 to 99 Percent Lit	100 Percent Lit	All Build-ings*	Not Lit <sup>a</sup>	1 to 50 Percent Lit	51 to 99 Percent Lit	100 Percent Lit
<b>All Buildings*</b> .....	4,645	432	929	1,108	2,176	64,783	3,503	10,203	18,288	32,789
<b>Number of Floors</b>										
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
<b>Number of Workers (main shift)</b>										
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
<b>Weekly Operating Hours</b>										
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
<b>Vacancy Status</b>										
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
<b>Energy Sources (more than one may apply)</b>										
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
<b>Energy End Uses (more than one may apply)</b>										
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
<b>Percent of Floorspace Heated</b>										
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

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**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 <sup>a</sup>	1 to 50 Percent Lit	51 to 99 Percent Lit	100 Percent Lit	All Build-ings*	Not Lit <sup>a</sup>	1 to 50 Percent Lit	51 to 99 Percent Lit	100 Percent Lit
<b>All Buildings*</b> .....	4,645	432	929	1,108	2,176	64,783	3,503	10,203	18,288	32,789
<b>Percent of Floorspace Cooled</b>										
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
<b>Percent Lit When Closed</b>										
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
<b>Lighting Equipment Types (more than one may apply)</b>										
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
<b>Window and Interior Lighting Features (more than one may apply)</b>										
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>b</sup></b>										
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

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**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 <sup>a</sup>	1 to 50 Percent Lit	51 to 99 Percent Lit	100 Percent Lit	All Build-ings*	Not Lit <sup>a</sup>	1 to 50 Percent Lit	51 to 99 Percent Lit	100 Percent Lit
<b>All Buildings*</b> .....	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.

<sup>a</sup> "Not Lit" includes buildings that were zero percent lit when open, buildings that were never open, and buildings that did not use any electricity.

<sup>b</sup> 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)						
	Total Floorspace in All Buildings*	Heated Buildings		Cooled Buildings		Lit Buildings <sup>c</sup>	
		Total Floor-space <sup>a</sup>	Heated Floor-space <sup>b</sup>	Total Floor-space <sup>a</sup>	Cooled Floor-space <sup>b</sup>	Total Floor-space <sup>a</sup>	Lit Floor-space <sup>b</sup>
<b>All Buildings*</b> .....	64,783	60,028	53,473	56,940	41,788	62,060	51,342
<b>Building Floorspace (Square Feet)</b>							
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
<b>Principal Building Activity</b>							
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
<b>Year Constructed</b>							
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
<b>Census Region</b>							
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
<b>Climate Zone: 30-Year Average</b>							
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

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

	Total Floorspace (million square feet)						
	Total Floorspace in All Buildings*	Heated Buildings		Cooled Buildings		Lit Buildings <sup>c</sup>	
		Total Floor-space <sup>a</sup>	Heated Floor-space <sup>b</sup>	Total Floor-space <sup>a</sup>	Cooled Floor-space <sup>b</sup>	Total Floor-space <sup>a</sup>	Lit Floor-space <sup>b</sup>
<b>All Buildings*</b> .....	64,783	60,028	53,473	56,940	41,788	62,060	51,342
<b>Number of Floors</b>							
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
<b>Number of Workers (main shift)</b>							
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
<b>Weekly Operating Hours</b>							
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
<b>Vacancy Status</b>							
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
<b>Energy Sources (more than one may apply)</b>							
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
<b>Space-Heating Energy Sources (more than one may apply)</b>							
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
<b>Primary Space-Heating Energy Source</b>							
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



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

	Total Floorspace (million square feet)						
	Total Floorspace in All Buildings*	Heated Buildings		Cooled Buildings		Lit Buildings <sup>c</sup>	
		Total Floor-space <sup>a</sup>	Heated Floor-space <sup>b</sup>	Total Floor-space <sup>a</sup>	Cooled Floor-space <sup>b</sup>	Total Floor-space <sup>a</sup>	Lit Floor-space <sup>b</sup>
<b>All Buildings*</b> .....	64,783	60,028	53,473	56,940	41,788	62,060	51,342
<b>Cooling Energy Sources (more than one may apply)</b>							
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
<b>Energy End Uses (more than one may apply)</b>							
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
<b>Percent of Floorspace Heated</b>							
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
<b>Percent of Floorspace Cooled</b>							
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
<b>Percent Lit When Open</b>							
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
<b>Percent Lit When Closed</b>							
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
<b>Heating Equipment (more than one may apply)</b>							
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

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

	Total Floorspace (million square feet)						
	Total Floorspace in All Buildings*	Heated Buildings		Cooled Buildings		Lit Buildings <sup>c</sup>	
		Total Floor-space <sup>a</sup>	Heated Floor-space <sup>b</sup>	Total Floor-space <sup>a</sup>	Cooled Floor-space <sup>b</sup>	Total Floor-space <sup>a</sup>	Lit Floor-space <sup>b</sup>
<b>All Buildings*</b> .....	64,783	60,028	53,473	56,940	41,788	62,060	51,342
<b>Cooling Equipment (more than one may apply)</b>							
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>							
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
<b>Lighting Equipment Types (more than one may apply)</b>							
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
<b>HVAC Conservation Features (more than one may apply)</b>							
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
<b>Window and Interior Lighting Features (more than one may apply)</b>							
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

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

	Total Floorspace (million square feet)						
	Total Floorspace in All Buildings*	Heated Buildings		Cooled Buildings		Lit Buildings <sup>c</sup>	
		Total Floor-space <sup>a</sup>	Heated Floor-space <sup>b</sup>	Total Floor-space <sup>a</sup>	Cooled Floor-space <sup>b</sup>	Total Floor-space <sup>a</sup>	Lit Floor-space <sup>b</sup>
<b>All Buildings*</b> .....	64,783	60,028	53,473	56,940	41,788	62,060	51,342
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>d</sup></b>							
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.

<sup>a</sup> "Total Floorspace" refers to all floorspace in heated, cooled, or lit buildings, including the floorspace that was not heated, cooled, or lit.

<sup>b</sup> "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.

<sup>c</sup> 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.

<sup>d</sup> 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)								
	All Buildings*	Heated Buildings	Heating Equipment (more than one may apply)						
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other
<b>All Buildings*</b> .....	4,645	3,982	476	1,864	819	65	579	953	205
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Census Region</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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

	Number of Buildings (thousand)								
	All Buildings*	Heated Buildings	Heating Equipment (more than one may apply)						
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other
<b>All Buildings*</b> .....	4,645	3,982	476	1,864	819	65	579	953	205
<b>Number of Floors</b>									
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
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Multibuilding Facility</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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

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

	Number of Buildings (thousand)								
	All Buildings*	Heated Buildings	Heating Equipment (more than one may apply)						
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other
<b>All Buildings*</b> .....	4,645	3,982	476	1,864	819	65	579	953	205
<b>Energy Sources (more than one may apply)</b>									
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
<b>Space-Heating Energy Sources (more than one may apply)</b>									
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
<b>Primary Space-Heating Energy Source</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Percent of Floorspace Heated</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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

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

	Number of Buildings (thousand)								
	All Buildings*	Heated Buildings	Heating Equipment (more than one may apply)						
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other
<b>All Buildings*</b> .....	4,645	3,982	476	1,864	819	65	579	953	205
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
Heating .....	1,197	1,197	145	602	268	Q	179	288	49
Cooling .....	1,356	1,315	156	642	288	13	249	299	50
<b>HVAC Conservation Features (more than one may apply)</b>									
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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.

<sup>a</sup> 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)								
	All Buildings*	Heated Buildings	Heating Equipment (more than one may apply)						
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other
<b>All Buildings*</b> .....	64,783	60,028	8,814	19,615	12,545	5,166	20,423	18,021	3,262
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Census Region</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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



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

	Total Floorspace (million square feet)									
	All Buildings*	Heated Buildings	Heating Equipment (more than one may apply)						Packaged Heating Units	Other
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers			
<b>All Buildings*</b> .....	64,783	60,028	8,814	19,615	12,545	5,166	20,423	18,021	3,262	
<b>Number of Floors</b>										
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	
<b>Number of Workers (main shift)</b>										
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	
<b>Weekly Operating Hours</b>										
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	
<b>Multibuilding Facility</b>										
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	
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>										
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	

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

	Total Floorspace (million square feet)								
	All Buildings*	Heated Buildings	Heating Equipment (more than one may apply)						
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other
<b>All Buildings*</b> .....	64,783	60,028	8,814	19,615	12,545	5,166	20,423	18,021	3,262
<b>Energy Sources (more than one may apply)</b>									
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
<b>Space-Heating Energy Sources (more than one may apply)</b>									
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
<b>Primary Space-Heating Energy Source</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Percent of Floorspace Heated</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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)								
	All Buildings*	Heated Buildings	Heating Equipment (more than one may apply)						
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other
<b>All Buildings*</b> .....	64,783	60,028	8,814	19,615	12,545	5,166	20,423	18,021	3,262
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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.

<sup>a</sup> 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)									
	All Buildings*	Cooled Buildings	Cooling Equipment (more than one may apply)							
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other
<b>All Buildings*</b> .....	4,645	3,625	1,006	492	742	33	111	1,613	122	40
<b>Building Floorspace (Square Feet)</b>										
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
<b>Principal Building Activity</b>										
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
<b>Year Constructed</b>										
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
<b>Census Region</b>										
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
<b>Climate Zone: 30-Year Average</b>										
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

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

	Number of Buildings (thousand)									
	All Buildings*	Cooled Buildings	Cooling Equipment (more than one may apply)							
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other
<b>All Buildings*</b> .....	4,645	3,625	1,006	492	742	33	111	1,613	122	40
<b>Number of Floors</b>										
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
<b>Number of Workers (main shift)</b>										
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
<b>Weekly Operating Hours</b>										
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
<b>Multibuilding Facility</b>										
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)									
	All Buildings*	Cooled Buildings	Cooling Equipment (more than one may apply)							
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other
<b>All Buildings*</b> .....	4,645	3,625	1,006	492	742	33	111	1,613	122	40
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>										
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
<b>Energy Sources (more than one may apply)</b>										
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
<b>Cooling Energy Sources (more than one may apply)</b>										
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
<b>Energy End Uses (more than one may apply)</b>										
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
<b>Percent of Floorspace Cooled</b>										
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)									
	All Buildings*	Cooled Buildings	Cooling Equipment (more than one may apply)							
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other
<b>All Buildings*</b> .....	4,645	3,625	1,006	492	742	33	111	1,613	122	40
<b>Heating Equipment (more than one may apply)</b>										
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
<b>Cooling Equipment (more than one may apply)</b>										
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>										
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
<b>Lighting Equipment Types (more than one may apply)</b>										
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
<b>HVAC Conservation Features (more than one may apply)</b>										
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)									
	All Build-ings*	Cooled Build-ings	Cooling Equipment (more than one may apply)							
			Resid-entia-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
<b>All Buildings*</b> .....	4,645	3,625	1,006	492	742	33	111	1,613	122	40
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>										
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.

<sup>a</sup> 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)									
	All Buildings*	Cooled Buildings	Cooling Equipment (more than one may apply)							
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other
<b>All Buildings*</b> .....	64,783	56,940	11,035	9,041	12,558	2,853	11,636	29,969	1,561	1,232
<b>Building Floorspace (Square Feet)</b>										
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
<b>Principal Building Activity</b>										
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
<b>Year Constructed</b>										
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
<b>Census Region</b>										
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
<b>Climate Zone: 30-Year Average</b>										
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)									
	All Buildings*	Cooled Buildings	Cooling Equipment (more than one may apply)							
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other
<b>All Buildings*</b> .....	64,783	56,940	11,035	9,041	12,558	2,853	11,636	29,969	1,561	1,232
<b>Number of Floors</b>										
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
<b>Number of Workers (main shift)</b>										
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
<b>Weekly Operating Hours</b>										
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
<b>Multibuilding Facility</b>										
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

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

	Total Floorspace (million square feet)									
	All Buildings*	Cooled Buildings	Cooling Equipment (more than one may apply)							
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other
<b>All Buildings*</b> .....	64,783	56,940	11,035	9,041	12,558	2,853	11,636	29,969	1,561	1,232
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>										
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
<b>Energy Sources (more than one may apply)</b>										
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
<b>Cooling Energy Sources (more than one may apply)</b>										
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
<b>Energy End Uses (more than one may apply)</b>										
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
<b>Percent of Floorspace Cooled</b>										
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)									
	All Buildings*	Cooled Buildings	Cooling Equipment (more than one may apply)							
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other
<b>All Buildings*</b> .....	64,783	56,940	11,035	9,041	12,558	2,853	11,636	29,969	1,561	1,232
<b>Heating Equipment (more than one may apply)</b>										
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
<b>Cooling Equipment (more than one may apply)</b>										
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>										
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
<b>Lighting Equipment Types (more than one may apply)</b>										
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
<b>HVAC Conservation Features (more than one may apply)</b>										
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)									
	All Buildings*	Cooled Buildings	Cooling Equipment (more than one may apply)							
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other
<b>All Buildings*</b> .....	64,783	56,940	11,035	9,041	12,558	2,853	11,636	29,969	1,561	1,232
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>										
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.

<sup>a</sup> 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)				
	All Buildings*	Buildings with Water Heating	Type of Water Heating Equipment			All Buildings*	Buildings with Water Heating	Type of Water Heating Equipment		
			Centralized System	Distributed System	Combination Centralized and Distributed Systems			Centralized System	Distributed System	Combination Centralized and Distributed Systems
<b>All Buildings*</b> .....	4,645	3,472	2,513	785	175	64,783	56,478	34,671	11,540	10,267
<b>Building Floorspace (Square Feet)</b>										
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
<b>Principal Building Activity</b>										
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
<b>Year Constructed</b>										
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

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

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings*	Buildings with Water Heating	Type of Water Heating Equipment			All Buildings*	Buildings with Water Heating	Type of Water Heating Equipment		
			Centralized System	Distributed System	Combination Centralized and Distributed Systems			Centralized System	Distributed System	Combination Centralized and Distributed Systems
<b>All Buildings*</b> .....	4,645	3,472	2,513	785	175	64,783	56,478	34,671	11,540	10,267
<b>Census Region and Division</b>										
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
<b>Climate Zone: 30-Year Average</b>										
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
<b>Number of Floors</b>										
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
<b>Number of Workers (main shift)</b>										
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
<b>Weekly Operating Hours</b>										
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

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

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings*	Buildings with Water Heating	Type of Water Heating Equipment			All Buildings*	Buildings with Water Heating	Type of Water Heating Equipment		
			Centralized System	Distributed System	Combination Centralized and Distributed Systems			Centralized System	Distributed System	Combination Centralized and Distributed Systems
<b>All Buildings*</b> .....	4,645	3,472	2,513	785	175	64,783	56,478	34,671	11,540	10,267
<b>Multibuilding Facility</b>										
Not Part of a Multibuilding Facility .....										
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
<b>Energy Sources (more than one may apply)</b>										
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
<b>Water-Heating Energy Sources (more than one may apply)</b>										
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
<b>Energy End Uses (more than one may apply)</b>										
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)				
	All Buildings*	Buildings with Water Heating	Type of Water Heating Equipment			All Buildings*	Buildings with Water Heating	Type of Water Heating Equipment		
			Centralized System	Distributed System	Combination Centralized and Distributed Systems			Centralized System	Distributed System	Combination Centralized and Distributed Systems
<b>All Buildings*</b> .....	4,645	3,472	2,513	785	175	64,783	56,478	34,671	11,540	10,267
<b>Energy-Related Space Functions (more than one may apply)</b>										
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.

<sup>a</sup> 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)						
	All Buildings*	Lit Buildings	Lighting Equipment Types (more than one may apply)				
			Incand- escent	Standard Fluor- escent	Compact Fluor- escent	High- Intensity Discharge	Halogen
<b>All Buildings*</b> .....	4,645	4,248	2,184	3,943	941	455	565
<b>Building Floorspace (Square Feet)</b>							
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
<b>Principal Building Activity</b>							
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
<b>Year Constructed</b>							
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
<b>Census Region and Division</b>							
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)						
	All Buildings*	Lit Buildings	Lighting Equipment Types (more than one may apply)				
			Incand- escent	Standard Fluor- escent	Compact Fluor- escent	High- Intensity Discharge	Halogen
<b>All Buildings*</b> .....	4,645	4,248	2,184	3,943	941	455	565
<b>Climate Zone: 30-Year Average</b>							
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
<b>Number of Floors</b>							
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
<b>Number of Workers (main shift)</b>							
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
<b>Weekly Operating Hours</b>							
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
<b>Vacancy Status</b>							
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
<b>Multibuilding Facility</b>							
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)						
	All Buildings*	Lit Buildings	Lighting Equipment Types (more than one may apply)				
			Incand- escent	Standard Fluor- escent	Compact Fluor- escent	High- Intensity Discharge	Halogen
<b>All Buildings*</b> .....	4,645	4,248	2,184	3,943	941	455	565
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>							
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
<b>Energy Sources (more than one may apply)</b>							
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
<b>Energy End Uses (more than one may apply)</b>							
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
<b>Percent Lit When Open</b>							
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
<b>Percent Lit When Closed</b>							
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)						
	All Buildings*	Lit Buildings	Lighting Equipment Types (more than one may apply)				
			Incand- escent	Standard Fluor- escent	Compact Fluor- escent	High- Intensity Discharge	Halogen
<b>All Buildings*</b> .....	4,645	4,248	2,184	3,943	941	455	565
<b>Lighting Equipment Types (more than one may apply)</b>							
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
<b>Window and Interior Lighting Features (more than one may apply)</b>							
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>							
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/cbeecs>.

\* 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.

<sup>a</sup> 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)						
	All Buildings*	Lit Buildings	Lighting Equipment Types (more than one may apply)				
			Incand- escent	Standard Fluor- escent	Compact Fluor- escent	High- Intensity Discharge	Halogen
<b>All Buildings*</b> .....	64,783	62,060	38,528	59,688	27,571	20,643	17,703
<b>Building Floorspace (Square Feet)</b>							
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
<b>Principal Building Activity</b>							
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
<b>Year Constructed</b>							
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
<b>Census Region and Division</b>							
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)							
	All Buildings*	Lit Buildings	Lighting Equipment Types (more than one may apply)					Halogen
			Incand- escent	Standard Fluor- escent	Compact Fluor- escent	High- Intensity Discharge		
<b>All Buildings*</b> .....	64,783	62,060	38,528	59,688	27,571	20,643	17,703	
<b>Climate Zone: 30-Year Average</b>								
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	
<b>Number of Floors</b>								
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	
<b>Number of Workers (main shift)</b>								
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	
<b>Weekly Operating Hours</b>								
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	
<b>Vacancy Status</b>								
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	
<b>Multibuilding Facility</b>								
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)						
	All Buildings*	Lit Buildings	Lighting Equipment Types (more than one may apply)				
			Incand- escent	Standard Fluor- escent	Compact Fluor- escent	High- Intensity Discharge	Halogen
<b>All Buildings*</b> .....	64,783	62,060	38,528	59,688	27,571	20,643	17,703
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>							
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
<b>Energy Sources (more than one may apply)</b>							
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
<b>Energy End Uses (more than one may apply)</b>							
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
<b>Percent Lit When Open</b>							
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
<b>Percent Lit When Closed</b>							
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)							
	All Buildings*	Lit Buildings	Lighting Equipment Types (more than one may apply)					Halogen
			Incand- escent	Standard Fluor- escent	Compact Fluor- escent	High- Intensity Discharge		
<b>All Buildings*</b> .....	64,783	62,060	38,528	59,688	27,571	20,643	17,703	
<b>Lighting Equipment Types (more than one may apply)</b>								
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	
<b>Window and Interior Lighting Features (more than one may apply)</b>								
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	
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>								
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.

<sup>a</sup> 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)							
	All Buildings*	Buildings with Any Refrigeration Equipment	Type of Equipment (more than one may apply)					
			Commercial Refrigeration				Other Refrigeration	
			Any	Walk-In Units	Open Cases or Cabinets	Closed Cases or Cabinets	Residential-Type Units	Vending Machines
<b>All Buildings*</b> .....	4,645	3,176	1,007	666	308	696	2,370	996
<b>Building Floorspace (Square Feet)</b>								
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
<b>Principal Building Activity</b>								
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
<b>Year Constructed</b>								
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
<b>Census Region and Division</b>								
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)							
	All Buildings*	Buildings with Any Refrigeration Equipment	Type of Equipment (more than one may apply)					
			Commercial Refrigeration				Other Refrigeration	
			Any	Walk-In Units	Open Cases or Cabinets	Closed Cases or Cabinets	Residential-Type Units	Vending Machines
<b>All Buildings*</b> .....	4,645	3,176	1,007	666	308	696	2,370	996
<b>Climate Zone: 30-Year Average</b>								
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
<b>Number of Floors</b>								
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
<b>Number of Workers (main shift)</b>								
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
<b>Weekly Operating Hours</b>								
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
<b>Multibuilding Facility</b>								
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)							
	All Buildings*	Buildings with Any Refrigeration Equipment	Type of Equipment (more than one may apply)					
			Commercial Refrigeration				Other Refrigeration	
			Any	Walk-In Units	Open Cases or Cabinets	Closed Cases or Cabinets	Residential-Type Units	Vending Machines
<b>All Buildings*</b> .....	4,645	3,176	1,007	666	308	696	2,370	996
<b>Energy Sources (more than one may apply)</b>								
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
<b>Energy End Uses (more than one may apply)</b>								
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
<b>Energy-Related Space Functions (more than one may apply)</b>								
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)							
	All Buildings*	Buildings with Any Refrigeration Equipment	Type of Equipment (more than one may apply)					
			Commercial Refrigeration				Other Refrigeration	
			Any	Walk-In Units	Open Cases or Cabinets	Closed Cases or Cabinets	Residential-Type Units	Vending Machines
<b>All Buildings*</b> .....	64,783	52,974	26,768	20,254	10,425	17,218	38,884	35,335
<b>Building Floorspace (Square Feet)</b>								
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
<b>Principal Building Activity</b>								
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
<b>Year Constructed</b>								
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
<b>Census Region and Division</b>								
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)							
	All Buildings*	Buildings with Any Refrigeration Equipment	Type of Equipment (more than one may apply)					
			Commercial Refrigeration				Other Refrigeration	
			Any	Walk-In Units	Open Cases or Cabinets	Closed Cases or Cabinets	Residential-Type Units	Vending Machines
<b>All Buildings*</b> .....	64,783	52,974	26,768	20,254	10,425	17,218	38,884	35,335
<b>Climate Zone: 30-Year Average</b>								
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
<b>Number of Floors</b>								
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
<b>Number of Workers (main shift)</b>								
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
<b>Weekly Operating Hours</b>								
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
<b>Multibuilding Facility</b>								
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)							
	All Buildings*	Buildings with Any Refrigeration Equipment	Type of Equipment (more than one may apply)					
			Commercial Refrigeration				Other Refrigeration	
			Any	Walk-In Units	Open Cases or Cabinets	Closed Cases or Cabinets	Residential-Type Units	Vending Machines
<b>All Buildings*</b> .....	64,783	52,974	26,768	20,254	10,425	17,218	38,884	35,335
<b>Energy Sources (more than one may apply)</b>								
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
<b>Energy End Uses (more than one may apply)</b>								
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
<b>Energy-Related Space Functions (more than one may apply)</b>								
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)					
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat
				Primary	Site			
<b>All Buildings*</b> .....	4,645	64,783	5,820	9,168	3,037	1,928	222	634
<b>Building Floorspace (Square Feet)</b>								
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
<b>Principal Building Activity</b>								
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
<b>Year Constructed</b>								
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
<b>Census Region and Division</b>								
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)					
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat
				Primary	Site			
<b>All Buildings*</b> .....	4,645	64,783	5,820	9,168	3,037	1,928	222	634
<b>Climate Zone: 30-Year Average</b>								
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
<b>Number of Floors</b>								
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
<b>Elevators and Escalators (more than one may apply)</b>								
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
<b>Number of Workers (main shift)</b>								
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
<b>Weekly Operating Hours</b>								
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
<b>Ownership and Occupancy</b>								
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
<b>Vacancy Status</b>								
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)					
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat
				Primary	Site			
<b>All Buildings*</b> .....	4,645	64,783	5,820	9,168	3,037	1,928	222	634
<b>Number of Establishments</b>								
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
<b>Predominant Exterior Wall Material</b>								
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
<b>Predominant Roof Material</b>								
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>								
<b>Any Type of Renovation</b>								
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)					
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat
				Primary	Site			
<b>All Buildings*</b> .....	4,645	64,783	5,820	9,168	3,037	1,928	222	634
<b>Energy Sources (more than one may apply)</b>								
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
<b>Space-Heating Energy Sources (more than one may apply)</b>								
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
<b>Primary Space-Heating Energy Source</b>								
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
<b>Cooling Energy Sources (more than one may apply)</b>								
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
<b>Water-Heating Energy Sources (more than one may apply)</b>								
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
<b>Cooking Energy Sources (more than one may apply)</b>								
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
<b>Energy End Uses (more than one may apply)</b>								
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)					
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat
				Primary	Site			
<b>All Buildings*</b> .....	4,645	64,783	5,820	9,168	3,037	1,928	222	634
<b>Percent of Floorspace Heated</b>								
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
<b>Percent of Floorspace Cooled</b>								
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
<b>Percent Lit When Open</b>								
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
<b>Percent Lit When Closed</b>								
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
<b>Heating Equipment (more than one may apply)</b>								
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
<b>Cooling Equipment (more than one may apply)</b>								
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)					
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat
				Primary	Site			
<b>All Buildings*</b> .....	4,645	64,783	5,820	9,168	3,037	1,928	222	634
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>								
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
<b>Water Heating Equipment</b>								
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
<b>Lighting Equipment Types (more than one may apply)</b>								
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>								
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
<b>Office Equipment (more than one may apply)</b>								
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
<b>Number of Computers</b>								
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
<b>Number of Dedicated Servers</b>								
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)					
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat
				Primary	Site			
<b>All Buildings*</b> .....	4,645	64,783	5,820	9,168	3,037	1,928	222	634
<b>Number of Photocopiers</b>								
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
<b>Energy-Related Space Functions (more than one may apply)</b>								
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
<b>HVAC Conservation Features (more than one may apply)</b>								
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
<b>Window and Interior Lighting Features (more than one may apply)</b>								
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>								
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)					
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat
				Primary	Site			
<b>All Buildings*</b> .....	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.

<sup>a</sup> 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
<b>All Buildings*</b> .....	4,645	64,783	92,577	69,032	14,525	1,776	7,245
<b>Building Floorspace (Square Feet)</b>							
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
<b>Principal Building Activity</b>							
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
<b>Year Constructed</b>							
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
<b>Census Region and Division</b>							
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

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**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
<b>All Buildings*</b> .....	4,645	64,783	92,577	69,032	14,525	1,776	7,245
<b>Climate Zone: 30-Year Average</b>							
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
<b>Number of Floors</b>							
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
<b>Elevators and Escalators (more than one may apply)</b>							
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
<b>Number of Workers (main shift)</b>							
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
<b>Weekly Operating Hours</b>							
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
<b>Ownership and Occupancy</b>							
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
<b>Vacancy Status</b>							
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
<b>All Buildings*</b> .....	4,645	64,783	92,577	69,032	14,525	1,776	7,245
<b>Number of Establishments</b>							
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
<b>Predominant Exterior Wall Material</b>							
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
<b>Predominant Roof Material</b>							
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>							
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
<b>All Buildings*</b> .....	4,645	64,783	92,577	69,032	14,525	1,776	7,245
<b>Energy Sources (more than one may apply)</b>							
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
<b>Space-Heating Energy Sources (more than one may apply)</b>							
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
<b>Primary Space-Heating Energy Source</b>							
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
<b>Cooling Energy Sources (more than one may apply)</b>							
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
<b>Water-Heating Energy Sources (more than one may apply)</b>							
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
<b>Cooking Energy Sources (more than one may apply)</b>							
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
<b>Energy End Uses (more than one may apply)</b>							
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

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**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
<b>All Buildings*</b> .....	4,645	64,783	92,577	69,032	14,525	1,776	7,245
<b>Percent of Floorspace Heated</b>							
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
<b>Percent of Floorspace Cooled</b>							
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
<b>Percent Lit When Open</b>							
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
<b>Percent Lit When Closed</b>							
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
<b>Heating Equipment (more than one may apply)</b>							
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
<b>Cooling Equipment (more than one may apply)</b>							
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
<b>All Buildings*</b> .....	4,645	64,783	92,577	69,032	14,525	1,776	7,245
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>							
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
<b>Water Heating Equipment</b>							
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
<b>Lighting Equipment Types (more than one may apply)</b>							
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>							
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
<b>Office Equipment (more than one may apply)</b>							
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
<b>Number of Computers</b>							
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
<b>Number of Dedicated Servers</b>							
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

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**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
<b>All Buildings*</b> .....	4,645	64,783	92,577	69,032	14,525	1,776	7,245
<b>Number of Photocopiers</b>							
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
<b>Energy-Related Space Functions (more than one may apply)</b>							
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
<b>HVAC Conservation Features (more than one may apply)</b>							
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
<b>Window and Interior Lighting Features (more than one may apply)</b>							
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>							
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
<b>All Buildings*</b> .....	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/cbeecs>.

\* 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.

<sup>a</sup> 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)
<b>All Buildings*</b> .....	4,645	64,783	13.9	5,820	1,253	89.8	79.9
<b>Building Floorspace (Square Feet)</b>							
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
<b>Principal Building Activity</b>							
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
<b>Year Constructed</b>							
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
<b>Census Region and Division</b>							
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

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**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)
<b>All Buildings*</b> .....	4,645	64,783	13.9	5,820	1,253	89.8	79.9
<b>Climate Zone: 30-Year Average</b>							
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
<b>Number of Floors</b>							
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
<b>Elevators and Escalators (more than one may apply)</b>							
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
<b>Number of Workers (main shift)</b>							
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
<b>Weekly Operating Hours</b>							
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
<b>Ownership and Occupancy</b>							
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
<b>Vacancy Status</b>							
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

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**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)
<b>All Buildings*</b> .....	4,645	64,783	13.9	5,820	1,253	89.8	79.9
<b>Number of Establishments</b>							
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	.
<b>Predominant Exterior Wall Material</b>							
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
<b>Predominant Roof Material</b>							
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>							
<b>Any Type of Renovation</b>							
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
<b>Interior Wall</b>							
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

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**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)
<b>All Buildings*</b> .....	4,645	64,783	13.9	5,820	1,253	89.8	79.9
<b>Energy Sources (more than one may apply)</b>							
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
<b>Space-Heating Energy Sources (more than one may apply)</b>							
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
<b>Primary Space-Heating Energy Source</b>							
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
<b>Cooling Energy Sources (more than one may apply)</b>							
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
<b>Water-Heating Energy Sources (more than one may apply)</b>							
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
<b>Cooking Energy Sources (more than one may apply)</b>							
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
<b>Energy End Uses (more than one may apply)</b>							
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

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**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)
<b>All Buildings*</b> .....	4,645	64,783	13.9	5,820	1,253	89.8	79.9
<b>Percent of Floorspace Heated</b>							
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
<b>Percent of Floorspace Cooled</b>							
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
<b>Percent Lit When Open</b>							
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
<b>Percent Lit When Closed</b>							
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
<b>Heating Equipment (more than one may apply)</b>							
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
<b>Cooling Equipment (more than one may apply)</b>							
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

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**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)
<b>All Buildings*</b> .....	4,645	64,783	13.9	5,820	1,253	89.8	79.9
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>							
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
<b>Water Heating Equipment</b>							
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
<b>Lighting Equipment Types (more than one may apply)</b>							
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>							
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
<b>Office Equipment (more than one may apply)</b>							
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
<b>Number of Computers</b>							
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
<b>Number of Dedicated Servers</b>							
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

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**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)
<b>All Buildings*</b> .....	4,645	64,783	13.9	5,820	1,253	89.8	79.9
<b>Number of Photocopiers</b>							
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
<b>Energy-Related Space Functions (more than one may apply)</b>							
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
<b>HVAC Conservation Features (more than one may apply)</b>							
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
<b>Window and Interior Lighting Features (more than one may apply)</b>							
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>							
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

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**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)
<b>All Buildings*</b> .....	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/cbeecs>.

\* 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.

<sup>a</sup> 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)
<b>All Buildings*</b> .....	4,645	64,783	13.9	92,577	19.9	1.43	15.91
<b>Building Floorspace (Square Feet)</b>							
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
<b>Principal Building Activity</b>							
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
<b>Year Constructed</b>							
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
<b>Census Region and Division</b>							
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)
<b>All Buildings*</b> .....	4,645	64,783	13.9	92,577	19.9	1.43	15.91
<b>Climate Zone: 30-Year Average</b>							
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
<b>Number of Floors</b>							
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
<b>Elevators and Escalators (more than one may apply)</b>							
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
<b>Number of Workers (main shift)</b>							
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
<b>Weekly Operating Hours</b>							
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
<b>Ownership and Occupancy</b>							
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
<b>Vacancy Status</b>							
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)
<b>All Buildings*</b> .....	4,645	64,783	13.9	92,577	19.9	1.43	15.91
<b>Number of Establishments</b>							
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
<b>Predominant Exterior Wall Material</b>							
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
<b>Predominant Roof Material</b>							
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>							
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)
<b>All Buildings*</b> .....	4,645	64,783	13.9	92,577	19.9	1.43	15.91
<b>Energy Sources (more than one may apply)</b>							
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
<b>Space-Heating Energy Sources (more than one may apply)</b>							
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
<b>Primary Space-Heating Energy Source</b>							
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
<b>Cooling Energy Sources (more than one may apply)</b>							
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
<b>Water-Heating Energy Sources (more than one may apply)</b>							
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
<b>Cooking Energy Sources (more than one may apply)</b>							
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
<b>Energy End Uses (more than one may apply)</b>							
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)
<b>All Buildings*</b> .....	4,645	64,783	13.9	92,577	19.9	1.43	15.91
<b>Percent of Floorspace Heated</b>							
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
<b>Percent of Floorspace Cooled</b>							
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
<b>Percent Lit When Open</b>							
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
<b>Percent Lit When Closed</b>							
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
<b>Heating Equipment (more than one may apply)</b>							
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
<b>Cooling Equipment (more than one may apply)</b>							
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)
<b>All Buildings*</b> .....	4,645	64,783	13.9	92,577	19.9	1.43	15.91
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>							
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
<b>Water Heating Equipment</b>							
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
<b>Lighting Equipment Types (more than one may apply)</b>							
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>							
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
<b>Office Equipment (more than one may apply)</b>							
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
<b>Number of Computers</b>							
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
<b>Number of Dedicated Servers</b>							
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)
<b>All Buildings*</b> .....	4,645	64,783	13.9	92,577	19.9	1.43	15.91
<b>Number of Photocopiers</b>							
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
<b>Energy-Related Space Functions (more than one may apply)</b>							
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
<b>HVAC Conservation Features (more than one may apply)</b>							
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
<b>Window and Interior Lighting Features (more than one may apply)</b>							
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>							
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)
<b>All Buildings*</b> .....	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.

<sup>a</sup> 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
<b>All Buildings*</b> .....	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6
<b>Building Floorspace (Square Feet)</b>												
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
<b>Principal Building Activity</b>												
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
<b>Year Constructed</b>												
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
<b>Climate Zone: 30-Year Average</b>												
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
<b>Number of Floors</b>												
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

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**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
<b>All Buildings*</b> .....	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6
<b>Elevators and Escalators (more than one may apply)</b>												
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
<b>Number of Workers (main shift)</b>												
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
<b>Weekly Operating Hours</b>												
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
<b>Ownership and Occupancy</b>												
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
<b>Vacancy Status</b>												
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
<b>Number of Establishments</b>												
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

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**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
<b>All Buildings*</b> .....	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6
<b>Predominant Exterior Wall Material</b>												
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
<b>Predominant Roof Material</b>												
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>												
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
<b>Energy Sources (more than one may apply)</b>												
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

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**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
<b>All Buildings*</b> .....	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6
<b>Space-Heating Energy Sources (more than one may apply)</b>												
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
<b>Primary Space-Heating Energy Source</b>												
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
<b>Cooling Energy Sources (more than one may apply)</b>												
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
<b>Water-Heating Energy Sources (more than one may apply)</b>												
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
<b>Cooking Energy Sources (more than one may apply)</b>												
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
<b>Energy End Uses (more than one may apply)</b>												
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
<b>Percent of Floorspace Heated</b>												
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

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**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
<b>All Buildings*</b> .....	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6
<b>Percent of Floorspace Cooled</b>												
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
<b>Percent Lit When Open</b>												
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
<b>Percent Lit When Closed</b>												
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
<b>Heating Equipment (more than one may apply)</b>												
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
<b>Cooling Equipment (more than one may apply)</b>												
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>												
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

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**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
<b>All Buildings*</b> .....	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6
<b>Water Heating Equipment</b>												
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
<b>Lighting Equipment Types (more than one may apply)</b>												
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>												
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
<b>Office Equipment (more than one may apply)</b>												
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
<b>Number of Computers</b>												
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
<b>Number of Dedicated Servers</b>												
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

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**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
<b>All Buildings*</b> .....	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6
<b>Number of Photocopiers</b>												
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
<b>Energy-Related Space Functions (more than one may apply)</b>												
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
<b>HVAC Conservation Features (more than one may apply)</b>												
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
<b>Window and Interior Lighting Features (more than one may apply)</b>												
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>												
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

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**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
<b>All Buildings*</b> .....	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.

<sup>a</sup> 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				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
<b>All Buildings*</b> .....	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60
<b>Building Floorspace (Square Feet)</b>												
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
<b>Principal Building Activity</b>												
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
<b>Year Constructed</b>												
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
<b>Climate Zone: 30-Year Average</b>												
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
<b>Number of Floors</b>												
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

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**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
<b>All Buildings*</b> .....	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60
<b>Elevators and Escalators (more than one may apply)</b>												
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
<b>Number of Workers (main shift)</b>												
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
<b>Weekly Operating Hours</b>												
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
<b>Ownership and Occupancy</b>												
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	Q	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
<b>Vacancy Status</b>												
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
<b>Number of Establishments</b>												
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

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**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
<b>All Buildings*</b> .....	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60
<b>Predominant Exterior Wall Material</b>												
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
<b>Predominant Roof Material</b>												
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>												
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
<b>Energy Sources (more than one may apply)</b>												
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

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**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
<b>All Buildings*</b> .....	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60
<b>Space-Heating Energy Sources (more than one may apply)</b>												
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
<b>Primary Space-Heating Energy Source</b>												
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
<b>Cooling Energy Sources (more than one may apply)</b>												
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
<b>Water-Heating Energy Sources (more than one may apply)</b>												
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
<b>Cooking Energy Sources (more than one may apply)</b>												
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
<b>Energy End Uses (more than one may apply)</b>												
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
<b>Percent of Floorspace Heated</b>												
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

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**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
<b>All Buildings*</b> .....	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60
<b>Percent of Floorspace Cooled</b>												
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
<b>Percent Lit When Open</b>												
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
<b>Percent Lit When Closed</b>												
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
<b>Heating Equipment (more than one may apply)</b>												
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
<b>Cooling Equipment (more than one may apply)</b>												
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>												
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

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**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
<b>All Buildings*</b> .....	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60
<b>Water Heating Equipment</b>												
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
<b>Lighting Equipment Types (more than one may apply)</b>												
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>												
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
<b>Office Equipment (more than one may apply)</b>												
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
<b>Number of Computers</b>												
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
<b>Number of Dedicated Servers</b>												
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

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**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
<b>All Buildings*</b> .....	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60
<b>Number of Photocopiers</b>												
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
<b>Energy-Related Space Functions (more than one may apply)</b>												
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
<b>HVAC Conservation Features (more than one may apply)</b>												
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
<b>Window and Interior Lighting Features (more than one may apply)</b>												
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>												
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

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**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
<b>All Buildings*</b> .....	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.

<sup>a</sup> 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
<b>All Buildings*</b> .....	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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
<b>Number of Floors</b>									
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

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**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
<b>All Buildings*</b> .....	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
<b>Elevators and Escalators (more than one may apply)</b>									
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
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
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
<b>Vacancy Status</b>									
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
<b>Number of Establishments</b>									
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

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**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
<b>All Buildings*</b> .....	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
<b>Predominant Exterior Wall Material</b>									
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
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
<b>Space-Heating Energy Sources (more than one may apply)</b>									
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
<b>Primary Space-Heating Energy Source</b>									
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
<b>Cooling Energy Sources (more than one may apply)</b>									
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
<b>Water-Heating Energy Sources (more than one may apply)</b>									
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
<b>Cooking Energy Sources (more than one may apply)</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Percent of Floorspace Heated</b>									
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

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**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
<b>All Buildings*</b> .....	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
<b>Percent of Floorspace Cooled</b>									
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
<b>Percent Lit When Open</b>									
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
<b>Percent Lit When Closed</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
<b>Water Heating Equipment</b>									
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
<b>Lighting Equipment Types (more than one may apply)</b>									
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>									
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
<b>Office Equipment (more than one may apply)</b>									
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
<b>Number of Computers</b>									
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
<b>Number of Dedicated Servers</b>									
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

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**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
<b>All Buildings*</b> .....	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
<b>Number of Photocopiers</b>									
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
<b>Energy-Related Space Functions (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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
<b>Window and Interior Lighting Features (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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.

<sup>a</sup> 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
<b>All Buildings*</b> .....	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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
<b>Number of Floors</b>									
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

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**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
<b>All Buildings*</b> .....	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
<b>Elevators and Escalators (more than one may apply)</b>									
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
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
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
<b>Vacancy Status</b>									
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
<b>Number of Establishments</b>									
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

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**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
<b>All Buildings*</b> .....	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
<b>Predominant Exterior Wall Material</b>									
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
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
<b>Space-Heating Energy Sources (more than one may apply)</b>									
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
<b>Primary Space-Heating Energy Source</b>									
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
<b>Cooling Energy Sources (more than one may apply)</b>									
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
<b>Water-Heating Energy Sources (more than one may apply)</b>									
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
<b>Cooking Energy Sources (more than one may apply)</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Percent of Floorspace Heated</b>									
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

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**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
<b>All Buildings*</b> .....	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
<b>Percent of Floorspace Cooled</b>									
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
<b>Percent Lit When Open</b>									
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
<b>Percent Lit When Closed</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
<b>Water Heating Equipment</b>									
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
<b>Lighting Equipment Types (more than one may apply)</b>									
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>									
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
<b>Office Equipment (more than one may apply)</b>									
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
<b>Number of Computers</b>									
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
<b>Number of Dedicated Servers</b>									
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

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**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
<b>All Buildings*</b> .....	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
<b>Number of Photocopiers</b>									
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
<b>Energy-Related Space Functions (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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
<b>Window and Interior Lighting Features (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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.

<sup>a</sup> 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	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
<b>All Buildings*</b> .....	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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
<b>Number of Floors</b>									
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

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**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
<b>All Buildings*</b> .....	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
<b>Elevators and Escalators (more than one may apply)</b>									
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
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
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
<b>Vacancy Status</b>									
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
<b>Number of Establishments</b>									
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

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**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
<b>All Buildings*</b> .....	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
<b>Predominant Exterior Wall Material</b>									
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
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
<b>Space-Heating Energy Sources (more than one may apply)</b>									
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
<b>Primary Space-Heating Energy Source</b>									
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
<b>Cooling Energy Sources (more than one may apply)</b>									
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
<b>Water-Heating Energy Sources (more than one may apply)</b>									
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
<b>Cooking Energy Sources (more than one may apply)</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Percent of Floorspace Heated</b>									
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

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**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
<b>All Buildings*</b> .....	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
<b>Percent of Floorspace Cooled</b>									
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
<b>Percent Lit When Open</b>									
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
<b>Percent Lit When Closed</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
<b>Water Heating Equipment</b>									
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
<b>Lighting Equipment Types (more than one may apply)</b>									
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>									
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
<b>Office Equipment (more than one may apply)</b>									
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
<b>Number of Computers</b>									
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
<b>Number of Dedicated Servers</b>									
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

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**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
<b>All Buildings*</b> .....	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
<b>Number of Photocopiers</b>									
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
<b>Energy-Related Space Functions (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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
<b>Window and Interior Lighting Features (more than one may apply)</b>									
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	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
<b>All Buildings*</b> .....	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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.

<sup>a</sup> 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<sup>a</sup> 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
<b>All Buildings*</b> .....	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
<b>Building Floorspace (Square Feet)</b>															
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
<b>Principal Building Activity</b>															
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
<b>Year Constructed</b>															
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
<b>Census Region and Division</b>															
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

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**Table C10. Consumption and Gross Energy Intensity by Climate Zone<sup>a</sup> 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
<b>All Buildings*</b> .....	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
<b>Number of Floors</b>															
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
<b>Elevators and Escalators (more than one may apply)</b>															
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
<b>Number of Workers (main shift)</b>															
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
<b>Weekly Operating Hours</b>															
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
<b>Ownership and Occupancy</b>															
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
<b>Vacancy Status</b>															
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
<b>Number of Establishments</b>															
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

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**Table C10. Consumption and Gross Energy Intensity by Climate Zone<sup>a</sup> 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
<b>All Buildings*</b> .....	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
<b>Predominant Exterior Wall Material</b>															
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
<b>Predominant Roof Material</b>															
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>															
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
<b>Energy Sources (more than one may apply)</b>															
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

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**Table C10. Consumption and Gross Energy Intensity by Climate Zone<sup>a</sup> 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
<b>All Buildings*</b> .....	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
<b>Space-Heating Energy Sources (more than one may apply)</b>															
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
<b>Primary Space-Heating Energy Source</b>															
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
<b>Cooling Energy Sources (more than one may apply)</b>															
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
<b>Water-Heating Energy Sources (more than one may apply)</b>															
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
<b>Cooking Energy Sources (more than one may apply)</b>															
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
<b>Energy End Uses (more than one may apply)</b>															
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
<b>Percent of Floorspace Heated</b>															
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

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**Table C10. Consumption and Gross Energy Intensity by Climate Zone<sup>a</sup> 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
<b>All Buildings*</b> .....	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
<b>Percent of Floorspace Cooled</b>															
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
<b>Percent Lit When Open</b>															
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
<b>Percent Lit When Closed</b>															
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
<b>Heating Equipment (more than one may apply)</b>															
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
<b>Cooling Equipment (more than one may apply)</b>															
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>															
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<sup>a</sup> 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
<b>All Buildings*</b> .....	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
<b>Water Heating Equipment</b>															
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
<b>Lighting Equipment Types (more than one may apply)</b>															
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
<b>Refrigeration Equipment (more than one may apply)<sup>p</sup></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
<b>Office Equipment (more than one may apply)</b>															
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
<b>Number of Computers</b>															
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
<b>Number of Dedicated Servers</b>															
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<sup>a</sup> 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
<b>All Buildings*</b> .....	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
<b>Number of Photocopiers</b>															
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
<b>Energy-Related Space Functions (more than one may apply)</b>															
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
<b>HVAC Conservation Features (more than one may apply)</b>															
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
<b>Window and Interior Lighting Features (more than one may apply)</b>															
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>b</sup></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

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**Table C10. Consumption and Gross Energy Intensity by Climate Zone<sup>a</sup> 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
<b>All Buildings*</b> .....	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.

<sup>a</sup> 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.)

<sup>b</sup> 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
<b>All Buildings*</b> .....	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Census Region and Division</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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**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
<b>All Buildings*</b> .....	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
<b>Number of Floors</b>									
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
<b>Elevators and Escalators (more than one may apply)</b>									
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
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
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
<b>Vacancy Status</b>									
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

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**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
<b>All Buildings*</b> .....	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
<b>Number of Establishments</b>									
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
<b>Predominant Exterior Wall Material</b>									
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
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
<b>Energy Sources (more than one may apply)</b>									
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
<b>Space-Heating Energy Sources (more than one may apply)</b>									
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
<b>Primary Space-Heating Energy Source</b>									
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
<b>Cooling Energy Sources (more than one may apply)</b>									
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
<b>Water-Heating Energy Sources (more than one may apply)</b>									
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
<b>Cooking Energy Sources (more than one may apply)</b>									
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
<b>All Buildings*</b> .....	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Percent of Floorspace Heated</b>									
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
<b>Percent of Floorspace Cooled</b>									
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
<b>Percent Lit When Open</b>									
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
<b>Percent Lit When Closed</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
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
<b>Water Heating Equipment</b>									
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
<b>Lighting Equipment Types (more than one may apply)</b>									
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>									
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
<b>All Buildings*</b> .....	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
<b>Office Equipment (more than one may apply)</b>									
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
<b>Number of Computers</b>									
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
<b>Number of Dedicated Servers</b>									
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
<b>Number of Photocopiers</b>									
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
<b>Energy-Related Space Functions (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
<b>Window and Interior Lighting Features (more than one may apply)</b>									
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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.

<sup>a</sup> 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
<b>All Buildings*</b> .....	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Census Region and Division</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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**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
<b>All Buildings*</b> .....	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0
<b>Number of Floors</b>									
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
<b>Elevators and Escalators (more than one may apply)</b>									
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
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
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
<b>Vacancy Status</b>									
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
<b>Number of Establishments</b>									
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

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**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
<b>All Buildings*</b> .....	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0
<b>Predominant Exterior Wall Material</b>									
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
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0
<b>Space-Heating Energy Sources (more than one may apply)</b>									
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
<b>Primary Space-Heating Energy Source</b>									
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
<b>Cooling Energy Sources (more than one may apply)</b>									
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
<b>Water-Heating Energy Sources (more than one may apply)</b>									
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
<b>Cooking Energy Sources (more than one may apply)</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Percent of Floorspace Heated</b>									
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

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**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
<b>All Buildings*</b> .....	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0
<b>Percent of Floorspace Cooled</b>									
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
<b>Percent Lit When Open</b>									
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
<b>Percent Lit When Closed</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0
<b>Water Heating Equipment</b>									
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
<b>Lighting Equipment Types (more than one may apply)</b>									
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>									
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
<b>Office Equipment (more than one may apply)</b>									
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
<b>Number of Computers</b>									
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
<b>Number of Dedicated Servers</b>									
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

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**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
<b>All Buildings*</b> .....	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0
<b>Number of Photocopiers</b>									
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
<b>Energy-Related Space Functions (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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
<b>Window and Interior Lighting Features (more than one may apply)</b>									
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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

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**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
<b>All Buildings*</b> .....	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.

<sup>a</sup> 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
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	
<b>All Buildings*</b> .....	4,404	63,307	14.4	9,168	3,037	890	69,032
<b>Building Floorspace (Square Feet)</b>							
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
<b>Principal Building Activity</b>							
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
<b>Year Constructed</b>							
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
<b>Census Region and Division</b>							
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

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**Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003**

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	
<b>All Buildings*</b> .....	4,404	63,307	14.4	9,168	3,037	890	69,032
<b>Climate Zone: 30-Year Average</b>							
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
<b>Number of Floors</b>							
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
<b>Elevators and Escalators (more than one may apply)</b>							
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
<b>Number of Workers (main shift)</b>							
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
<b>Weekly Operating Hours</b>							
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
<b>Ownership and Occupancy</b>							
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

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**Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003**

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	
<b>All Buildings*</b> .....	4,404	63,307	14.4	9,168	3,037	890	69,032
<b>Vacancy Status</b>							
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
<b>Number of Establishments</b>							
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
<b>Predominant Exterior Wall Material</b>							
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
<b>Predominant Roof Material</b>							
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>							
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

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**Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003**

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	
<b>All Buildings*</b> .....	4,404	63,307	14.4	9,168	3,037	890	69,032
<b>Energy Sources (more than one may apply)</b>							
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
<b>Space-Heating Energy Sources</b>							
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
<b>Primary Space-Heating Energy Source</b>							
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
<b>Cooling Energy Sources</b>							
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
<b>Water-Heating Energy Sources</b>							
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
<b>Cooking Energy Sources</b>							
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
<b>Energy End Uses (more than one may apply)</b>							
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

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**Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003**

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	
<b>All Buildings*</b> .....	4,404	63,307	14.4	9,168	3,037	890	69,032
<b>Percent of Floorspace Heated</b>							
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
<b>Percent of Floorspace Cooled</b>							
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
<b>Percent Lit When Open</b>							
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
<b>Percent Lit When Closed</b>							
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
<b>Heating Equipment (more than one may apply)</b>							
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
<b>Cooling Equipment (more than one may apply)</b>							
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

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**Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003**

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	
<b>All Buildings*</b> .....	4,404	63,307	14.4	9,168	3,037	890	69,032
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>							
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
<b>Water Heating Equipment</b>							
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
<b>Lighting Equipment Types (more than one may apply)</b>							
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
<b>Refrigeration Equipment (more than one may apply)*</b>							
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
<b>Office Equipment (more than one may apply)</b>							
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
<b>Number of Computers</b>							
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

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**Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003**

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	
<b>All Buildings*</b> .....	4,404	63,307	14.4	9,168	3,037	890	69,032
<b>Number of Dedicated Servers</b>							
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
<b>Number of Photocopiers</b>							
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
<b>Energy-Related Space Functions (more than one may apply)</b>							
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
<b>HVAC Conservation Features (more than one may apply)</b>							
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
<b>Window and Interior Lighting Features (more than one may apply)</b>							
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)*</b>							
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

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**Table C13. Total Electricity Consumption and Expenditures for Non-Mall Buildings, 2003**

	All Buildings* Using Electricity			Electricity Consumption			Electricity Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	
<b>All Buildings*</b> .....	4,404	63,307	14.4	9,168	3,037	890	69,032
<b>Annual Consumption (kilowatthours)</b>							
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
<b>Provider of Purchased Electricity (more than one may apply)</b>							
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.

<sup>a</sup> 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		
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)					
				25th Percentile	Median	75th Percentile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
<b>All Buildings*</b> .....	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Census Region and Division</b>									
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		
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
				25th Percentile	Median	75th Percentile			
<b>All Buildings*</b> .....	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
<b>Climate Zone: 30-Year Average</b>									
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
<b>Number of Floors</b>									
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
<b>Elevators and Escalators (more than one may apply)</b>									
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
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
Nongovernment Owned .....									
Owner Occupied .....	178	14.0	12.7	3.4	8.0	17.9	14.3	1.13	0.080
Nonowner Occupied .....	175	13.6	11.8	3.5	7.2	15.1	14.0	1.08	0.080
Unoccupied .....	187	15.2	13.5	3.6	9.4	21.7	15.1	1.22	0.081
Government Owned .....	30	1.9	N	0.4	1.7	3.4	2.9	Q	Q
Federal .....	348	14.1	11.1	4.8	9.3	15.3	24.0	0.97	0.069
State .....	842	19.7	15.8	4.3	9.2	17.3	47.3	1.11	0.056
Local .....	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		
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)					
				25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
<b>All Buildings*</b> .....	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
<b>Vacancy Status</b>									
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
<b>Number of Establishments</b>									
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
<b>Predominant Exterior Wall Material</b>									
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
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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		
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)					
				25th Percentile	Median	75th Percentile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
<b>All Buildings*</b> .....	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
<b>Energy Sources (more than one may apply)</b>									
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
<b>Space-Heating Energy Sources</b>									
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
<b>Primary Space-Heating Energy Source</b>									
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
<b>Cooling Energy Sources</b>									
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
<b>Water-Heating Energy Sources</b>									
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
<b>Cooking Energy Sources</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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		
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)					
				25th Percentile	Median	75th Percentile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
<b>All Buildings*</b> .....	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
<b>Percent of Floorspace Heated</b>									
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
<b>Percent of Floorspace Cooled</b>									
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
<b>Percent Lit When Open</b>									
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
<b>Percent Lit When Closed</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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
<b>Cooling Equipment (more than one may apply)</b>									
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		
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)					
				25th Percentile	Median	75th Percentile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
<b>All Buildings*</b> .....	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
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
<b>Water Heating Equipment</b>									
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
<b>Lighting Equipment Types (more than one may apply)</b>									
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>									
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
<b>Office Equipment (more than one may apply)</b>									
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
<b>Number of Computers</b>									
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		
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)					
				25th Per- centile	Median	75th Per- centile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
<b>All Buildings*</b> .....	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
<b>Number of Dedicated Servers</b>									
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
<b>Number of Photocopiers</b>									
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
<b>Energy-Related Space Functions (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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
<b>Window and Interior Lighting Features (more than one may apply)</b>									
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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		
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)					
				25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
<b>All Buildings*</b> .....	202	14.1	12.2	3.6	8.2	17.1	15.7	1.09	0.078
<b>Annual Consumption (kilowatthours)</b>									
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
<b>Provider of Purchased Electricity (more than one may apply)</b>									
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/cbeecs>.

\* 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.

<sup>a</sup> 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
<b>All Buildings*</b> .....	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
<b>Building Floorspace (Square Feet)</b>												
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
<b>Principal Building Activity</b>												
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
<b>Year Constructed</b>												
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
<b>Climate Zone: 30-Year Average</b>												
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
<b>Number of Floors</b>												
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

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**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
<b>All Buildings*</b> .....	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
<b>Elevators and Escalators (more than one may apply)</b>												
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
<b>Number of Workers (main shift)</b>												
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
<b>Weekly Operating Hours</b>												
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
<b>Ownership and Occupancy</b>												
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
<b>Vacancy Status</b>												
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
<b>Number of Establishments</b>												
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

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**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
<b>All Buildings*</b> .....	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
<b>Predominant Exterior Wall Material</b>												
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
<b>Predominant Roof Material</b>												
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>												
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
<b>Energy Sources (more than one may apply)</b>												
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

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**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
<b>All Buildings*</b> .....	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
<b>Space-Heating Energy Sources</b>												
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
<b>Primary Space-Heating Energy Source</b>												
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
<b>Cooling Energy Sources</b>												
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
<b>Water-Heating Energy Sources</b>												
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
<b>Cooking Energy Sources</b>												
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
<b>Energy End Uses (more than one may apply)</b>												
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
<b>Percent of Floorspace Heated</b>												
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
<b>Percent of Floorspace Cooled</b>												
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

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**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
<b>All Buildings*</b> .....	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
<b>Percent Lit When Open</b>												
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
<b>Percent Lit When Closed</b>												
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
<b>Heating Equipment (more than one may apply)</b>												
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
<b>Cooling Equipment (more than one may apply)</b>												
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>												
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
<b>Water Heating Equipment</b>												
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

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**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
<b>All Buildings*</b> .....	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
<b>Lighting Equipment Types (more than one may apply)</b>												
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>												
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
<b>Office Equipment (more than one may apply)</b>												
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
<b>Number of Computers</b>												
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
<b>Number of Dedicated Servers</b>												
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
<b>Number of Photocopiers</b>												
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

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**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
<b>All Buildings*</b> .....	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
<b>Energy-Related Space Functions (more than one may apply)</b>												
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
<b>HVAC Conservation Features (more than one may apply)</b>												
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
<b>Window and Interior Lighting Features (more than one may apply)</b>												
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>												
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
<b>Annual Consumption (kilowatthours)</b>												
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

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**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
<b>All Buildings*</b> .....	147	216	375	152	12,809	16,701	22,766	11,030	11.5	12.9	16.5	13.8
<b>Provider of Purchased Electricity (more than one may apply)</b>												
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.

<sup>a</sup> 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				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
<b>All Buildings*</b> .....	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
<b>Building Floorspace (Square Feet)</b>												
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
<b>Principal Building Activity</b>												
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
<b>Year Constructed</b>												
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
<b>Climate Zone: 30-Year Average</b>												
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
<b>Number of Floors</b>												
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				per Square Foot			
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West
<b>All Buildings*</b> .....	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
<b>Elevators and Escalators (more than one may apply)</b>												
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
<b>Number of Workers (main shift)</b>												
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
<b>Weekly Operating Hours</b>												
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
<b>Ownership and Occupancy</b>												
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
<b>Vacancy Status</b>												
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
<b>Number of Establishments</b>												
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				per Square Foot			
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West
<b>All Buildings*</b> .....	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
<b>Predominant Exterior</b>												
<b>Wall Material</b>												
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
<b>Predominant Roof Material</b>												
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
<b>Renovations in Buildings</b>												
<b>Constructed Before 1980</b>												
<b>(more than one may apply)</b>												
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
<b>Energy Sources (more than one may apply)</b>												
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				per Square Foot			
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West
<b>All Buildings*</b> .....	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
<b>Space-Heating Energy Sources</b>												
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
<b>Primary Space-Heating Energy Source</b>												
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
<b>Cooling Energy Sources</b>												
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
<b>Water-Heating Energy Sources</b>												
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
<b>Cooking Energy Sources</b>												
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
<b>Energy End Uses (more than one may apply)</b>												
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
<b>Percent of Floorspace Heated</b>												
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
<b>Percent of Floorspace Cooled</b>												
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				per Square Foot			
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West
<b>All Buildings*</b> .....	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
<b>Percent Lit When Open</b>												
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
<b>Percent Lit When Closed</b>												
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
<b>Heating Equipment (more than one may apply)</b>												
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
<b>Cooling Equipment (more than one may apply)</b>												
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>												
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
<b>Water Heating Equipment</b>												
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				per Square Foot			
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West
<b>All Buildings*</b> .....	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
<b>Lighting Equipment Types (more than one may apply)</b>												
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>												
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
<b>Office Equipment (more than one may apply)</b>												
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
<b>Number of Computers</b>												
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
<b>Number of Dedicated Servers</b>												
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
<b>Number of Photocopiers</b>												
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				per Square Foot			
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West
<b>All Buildings*</b> .....	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
<b>Energy-Related Space Functions (more than one may apply)</b>												
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
<b>HVAC Conservation Features (more than one may apply)</b>												
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
<b>Window and Interior Lighting Features (more than one may apply)</b>												
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>												
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
<b>Annual Consumption (kilowatthours)</b>												
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
<b>All Buildings*</b> .....	14,262	14,172	25,540	15,057	0.10	0.07	0.07	0.10	1.11	0.85	1.12	1.37
<b>Provider of Purchased Electricity (more than one may apply)</b>												
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.

<sup>a</sup> 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
<b>All Buildings*</b> .....	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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
<b>Number of Floors</b>									
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

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**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
<b>All Buildings*</b> .....	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
<b>Elevators and Escalators (more than one may apply)</b>									
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
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
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
<b>Vacancy Status</b>									
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
<b>Number of Establishments</b>									
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

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**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
<b>All Buildings*</b> .....	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
<b>Predominant Exterior Wall Material</b>									
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
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
<b>Space-Heating Energy Sources</b>									
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
<b>Primary Space-Heating Energy Source</b>									
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
<b>Cooling Energy Sources</b>									
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
<b>Water-Heating Energy Sources</b>									
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
<b>Cooking Energy Sources</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Percent of Floorspace Heated</b>									
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
<b>Percent of Floorspace Cooled</b>									
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

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**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
<b>All Buildings*</b> .....	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
<b>Percent Lit When Open</b>									
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
<b>Percent Lit When Closed</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
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
<b>Water Heating Equipment</b>									
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

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**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
<b>All Buildings*</b> .....	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
<b>Lighting Equipment Types (more than one may apply)</b>									
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>									
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
<b>Office Equipment (more than one may apply)</b>									
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
<b>Number of Computers</b>									
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
<b>Number of Dedicated Servers</b>									
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
<b>Number of Photocopiers</b>									
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

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**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
<b>All Buildings*</b> .....	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
<b>Energy-Related Space Functions (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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
<b>Window and Interior Lighting Features (more than one may apply)</b>									
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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
<b>Annual Consumption (kilowatthours)</b>									
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

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**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
<b>All Buildings*</b> .....	32	116	153	2,942	9,867	11,373	10.8	11.7	13.5
<b>Provider of Purchased Electricity (more than one may apply)</b>									
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.

<sup>a</sup> 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
<b>All Buildings*</b> .....	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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
<b>Number of Floors</b>									
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

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**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
<b>All Buildings*</b> .....	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
<b>Elevators and Escalators (more than one may apply)</b>									
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
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
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
<b>Vacancy Status</b>									
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
<b>Number of Establishments</b>									
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

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**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
<b>All Buildings*</b> .....	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
<b>Predominant Exterior Wall Material</b>									
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
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
<b>Space-Heating Energy Sources</b>									
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
<b>Primary Space-Heating Energy Source</b>									
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
<b>Cooling Energy Sources</b>									
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
<b>Water-Heating Energy Sources</b>									
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
<b>Cooking Energy Sources</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Percent of Floorspace Heated</b>									
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
<b>Percent of Floorspace Cooled</b>									
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

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**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
<b>All Buildings*</b> .....	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
<b>Percent Lit When Open</b>									
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
<b>Percent Lit When Closed</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
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
<b>Water Heating Equipment</b>									
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

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**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
<b>All Buildings*</b> .....	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
<b>Lighting Equipment Types (more than one may apply)</b>									
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>									
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
<b>Office Equipment (more than one may apply)</b>									
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
<b>Number of Computers</b>									
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
<b>Number of Dedicated Servers</b>									
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
<b>Number of Photocopiers</b>									
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

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**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
<b>All Buildings*</b> .....	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
<b>Energy-Related Space Functions (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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
<b>Window and Interior Lighting Features (more than one may apply)</b>									
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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
<b>Annual Consumption (kilowatthours)</b>									
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

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**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
<b>All Buildings*</b> .....	62	210	50	5,328	12,097	3,220	11.7	17.4	15.5
<b>Provider of Purchased Electricity (more than one may apply)</b>									
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.

<sup>a</sup> 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	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
<b>All Buildings*</b> .....	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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
<b>Number of Floors</b>									
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

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**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
<b>All Buildings*</b> .....	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
<b>Elevators and Escalators (more than one may apply)</b>									
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
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
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
<b>Vacancy Status</b>									
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
<b>Number of Establishments</b>									
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

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**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
<b>All Buildings*</b> .....	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
<b>Predominant Exterior Wall Material</b>									
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
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
<b>Space-Heating Energy Sources</b>									
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
<b>Primary Space-Heating Energy Source</b>									
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
<b>Cooling Energy Sources</b>									
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
<b>Water-Heating Energy Sources</b>									
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
<b>Cooking Energy Sources</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Percent of Floorspace Heated</b>									
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
<b>Percent of Floorspace Cooled</b>									
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

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**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
<b>All Buildings*</b> .....	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
<b>Percent Lit When Open</b>									
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
<b>Percent Lit When Closed</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
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
<b>Water Heating Equipment</b>									
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

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**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
<b>All Buildings*</b> .....	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
<b>Lighting Equipment Types (more than one may apply)</b>									
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>									
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
<b>Office Equipment (more than one may apply)</b>									
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
<b>Number of Computers</b>									
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
<b>Number of Dedicated Servers</b>									
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
<b>Number of Photocopiers</b>									
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

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**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
<b>All Buildings*</b> .....	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
<b>Energy-Related Space Functions (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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
<b>Window and Interior Lighting Features (more than one may apply)</b>									
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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
<b>Annual Consumption (kilowatthours)</b>									
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

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**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
<b>All Buildings*</b> .....	114	56	96	7,449	3,633	7,397	15.3	15.4	13.0
<b>Provider of Purchased Electricity (more than one may apply)</b>									
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.

<sup>a</sup> 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<sup>a</sup> 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
<b>All Buildings*</b> .....	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
<b>Building Floorspace (Square Feet)</b>															
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
<b>Principal Building Activity</b>															
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
<b>Year Constructed</b>															
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
<b>Census Region and Division</b>															
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

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**Table C20. Electricity Consumption and Conditional Energy Intensity by Climate Zone<sup>a</sup> 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
<b>All Buildings*</b> .....	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
<b>Number of Floors</b>															
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
<b>Elevators and Escalators (more than one may apply)</b>															
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
<b>Number of Workers (main shift)</b>															
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
<b>Weekly Operating Hours</b>															
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
<b>Ownership and Occupancy</b>															
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
<b>Vacancy Status</b>															
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
<b>Number of Establishments</b>															
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

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**Table C20. Electricity Consumption and Conditional Energy Intensity by Climate Zone<sup>a</sup> 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
<b>All Buildings*</b> .....	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
<b>Predominant Exterior Wall Material</b>															
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
<b>Predominant Roof Material</b>															
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>															
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
<b>Energy Sources (more than one may apply)</b>															
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

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**Table C20. Electricity Consumption and Conditional Energy Intensity by Climate Zone<sup>a</sup> 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
<b>All Buildings*</b> .....	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
<b>Space-Heating Energy Sources</b>															
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
<b>Primary Space-Heating Energy Source</b>															
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
<b>Cooling Energy Sources</b>															
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
<b>Water-Heating Energy Sources</b>															
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
<b>Cooking Energy Sources</b>															
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
<b>Energy End Uses (more than one may apply)</b>															
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
<b>Percent of Floorspace Heated</b>															
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
<b>Percent of Floorspace Cooled</b>															
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

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**Table C20. Electricity Consumption and Conditional Energy Intensity by Climate Zone<sup>a</sup> 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
<b>All Buildings*</b> .....	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
<b>Percent Lit When Open</b>															
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
<b>Percent Lit When Closed</b>															
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
<b>Heating Equipment (more than one may apply)</b>															
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
<b>Cooling Equipment (more than one may apply)</b>															
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>															
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
<b>Water Heating Equipment</b>															
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<sup>a</sup> 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
<b>All Buildings*</b> .....	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
<b>Lighting Equipment Types (more than one may apply)</b>															
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
<b>Refrigeration Equipment (more than one may apply)<sup>b</sup></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
<b>Office Equipment (more than one may apply)</b>															
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
<b>Number of Computers</b>															
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
<b>Number of Dedicated Servers</b>															
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
<b>Number of Photocopiers</b>															
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<sup>a</sup> 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
<b>All Buildings*</b> .....	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
<b>Energy-Related Space Functions (more than one may apply)</b>															
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
<b>HVAC Conservation Features (more than one may apply)</b>															
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
<b>Window and Interior Lighting Features (more than one may apply)</b>															
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>b</sup></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
<b>Annual Consumption (kilowatthours)</b>															
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<sup>a</sup> 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
<b>All Buildings*</b> .....	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
<b>Provider of Purchased Electricity (more than one may apply)</b>															
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.

<sup>a</sup> 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.)

<sup>b</sup> 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
<b>All Buildings*</b> .....	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Census Region and Division</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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**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
<b>All Buildings*</b> .....	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
<b>Number of Floors</b>									
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
<b>Elevators and Escalators (more than one may apply)</b>									
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
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
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
<b>Vacancy Status</b>									
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

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**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
<b>All Buildings*</b> .....	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
<b>Number of Establishments</b>									
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
<b>Predominant Exterior Wall Material</b>									
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
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
<b>Energy Sources (more than one may apply)</b>									
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
<b>Space-Heating Energy Sources</b>									
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
<b>Primary Space-Heating Energy Source</b>									
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
<b>Cooling Energy Sources</b>									
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
<b>Water-Heating Energy Sources</b>									
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
<b>Cooking Energy Sources</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
<b>Percent of Floorspace Heated</b>									
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
<b>Percent of Floorspace Cooled</b>									
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
<b>Percent Lit When Open</b>									
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
<b>Percent Lit When Closed</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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
<b>Cooling Equipment (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
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
<b>Water Heating Equipment</b>									
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
<b>Lighting Equipment Types (more than one may apply)</b>									
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>									
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
<b>Office Equipment (more than one may apply)</b>									
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
<b>Number of Computers</b>									
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

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**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
<b>All Buildings*</b> .....	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
<b>Number of Dedicated Servers</b>									
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
<b>Number of Photocopiers</b>									
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
<b>Energy-Related Space Functions (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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
<b>Window and Interior Lighting Features (more than one may apply)</b>									
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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

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**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
<b>All Buildings*</b> .....	190	341	360	12,543	28,786	21,977	15.1	11.8	16.4
<b>Annual Consumption (kilowatthours)</b>									
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
<b>Provider of Purchased Electricity (more than one may apply)</b>									
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.

<sup>a</sup> 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
<b>All Buildings*</b> .....	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Census Region and Division</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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**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
<b>All Buildings*</b> .....	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
<b>Number of Floors</b>									
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
<b>Elevators and Escalators (more than one may apply)</b>									
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
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
Nongovernment Owned .....	108	343	222	12,516	21,961	13,534	8.7	15.6	16.4
Owner Occupied .....									
Nonowner Occupied .....	57	160	101	7,103	10,371	5,981	8.0	15.4	16.9
Unoccupied .....	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 .....									
State .....	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
<b>Vacancy Status</b>									
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
<b>Number of Establishments</b>									
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

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**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
<b>All Buildings*</b> .....	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
<b>Predominant Exterior Wall Material</b>									
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
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
<b>Space-Heating Energy Sources</b>									
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
<b>Primary Space-Heating Energy Source</b>									
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
<b>Cooling Energy Sources</b>									
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
<b>Water-Heating Energy Sources</b>									
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
<b>Cooking Energy Sources</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Percent of Floorspace Heated</b>									
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
<b>Percent of Floorspace Cooled</b>									
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

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**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
<b>All Buildings*</b> .....	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
<b>Percent Lit When Open</b>									
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
<b>Percent Lit When Closed</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
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
<b>Water Heating Equipment</b>									
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

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**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
<b>All Buildings*</b> .....	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
<b>Lighting Equipment Types (more than one may apply)</b>									
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
<b>Refrigeration Equipment (more than one may apply)<sup>a</sup></b>									
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
<b>Office Equipment (more than one may apply)</b>									
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
<b>Number of Computers</b>									
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
<b>Number of Dedicated Servers</b>									
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
<b>Number of Photocopiers</b>									
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

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**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
<b>All Buildings*</b> .....	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
<b>Energy-Related Space Functions (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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
<b>Window and Interior Lighting Features (more than one may apply)</b>									
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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
<b>Annual Consumption (kilowatthours)</b>									
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

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**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
<b>All Buildings*</b> .....	155	447	288	17,163	28,766	17,378	9.0	15.5	16.6
<b>Provider of Purchased Electricity (more than one may apply)</b>									
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/cbeecs>.

\* 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.

<sup>a</sup> 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)
<b>All Buildings*</b> .....	2,391	43,468	18.2	1,928	1,870	14,525
<b>Building Floorspace (Square Feet)</b>						
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
<b>Principal Building Activity</b>						
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
<b>Year Constructed</b>						
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
<b>Census Region and Division</b>						
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

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**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)
<b>All Buildings*</b> .....	2,391	43,468	18.2	1,928	1,870	14,525
<b>Climate Zone: 30-Year Average</b>						
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
<b>Number of Floors</b>						
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
<b>Number of Workers (main shift)</b>						
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
<b>Weekly Operating Hours</b>						
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
<b>Ownership and Occupancy</b>						
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
<b>Vacancy Status</b>						
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

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**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)
<b>All Buildings*</b> .....	2,391	43,468	18.2	1,928	1,870	14,525
<b>Number of Establishments</b>						
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
<b>Predominant Exterior Wall Material</b>						
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
<b>Predominant Roof Material</b>						
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>						
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

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**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)
<b>All Buildings*</b> .....	2,391	43,468	18.2	1,928	1,870	14,525
<b>Energy Sources (more than one may apply)</b>						
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
<b>Space-Heating Energy Sources</b>						
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
<b>Primary Space-Heating Energy Source</b>						
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
<b>Cooling Energy Sources</b>						
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
<b>Water-Heating Energy Sources</b>						
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
<b>Cooking Energy Sources</b>						
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
<b>Energy End Uses (more than one may apply)</b>						
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

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**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)
<b>All Buildings*</b> .....	2,391	43,468	18.2	1,928	1,870	14,525
<b>Percent of Floorspace Heated</b>						
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
<b>Percent of Floorspace Cooled</b>						
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
<b>Heating Equipment (more than one may apply)</b>						
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
<b>Cooling Equipment (more than one may apply)</b>						
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>						
Heating .....	734	12,275	17	605	587	4,519
Cooling .....	873	16,047	18	779	756	5,761
<b>Water Heating Equipment</b>						
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

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**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)
<b>All Buildings*</b> .....	2,391	43,468	18.2	1,928	1,870	14,525
<b>Energy-Related Space Functions (more than one may apply)</b>						
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
<b>HVAC Conservation Features (more than one may apply)</b>						
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>						
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
<b>Annual Consumption (hundred cubic feet)</b>						
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
<b>Provider of Natural Gas (more than one may apply)</b>						
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.

<sup>a</sup> 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		
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	per Worker (thousand cubic feet)	Distribution of Building-Level Intensities (cubic feet/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)
				25th Percentile	Median	75th Percentile			
<b>All Buildings*</b> .....	782	43.0	36.0	17.6	37.1	70.9	6.1	0.33	7.77
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Census Region and Division</b>									
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

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

	Natural Gas Consumption						Natural Gas Expenditures		
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	per Worker (thousand cubic feet)	Distribution of Building-Level Intensities (cubic feet/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)
				25th Percentile	Median	75th Percentile			
<b>All Buildings*</b> .....	782	43.0	36.0	17.6	37.1	70.9	6.1	0.33	7.77
<b>Climate Zone: 30-Year Average</b>									
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
<b>Number of Floors</b>									
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
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
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
<b>Vacancy Status</b>									
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



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

	Natural Gas Consumption						Natural Gas Expenditures		
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	per Worker (thousand cubic feet)	Distribution of Building-Level Intensities (cubic feet/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)
				25th Percentile	Median	75th Percentile			
<b>All Buildings*</b> .....	782	43.0	36.0	17.6	37.1	70.9	6.1	0.33	7.77
<b>Number of Establishments</b>									
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
<b>Predominant Exterior Wall Material</b>									
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
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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

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

	Natural Gas Consumption						Natural Gas Expenditures		
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	per Worker (thousand cubic feet)	Distribution of Building-Level Intensities (cubic feet/square foot)					
				25th Percentile	Median	75th Percentile	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)
<b>All Buildings*</b> .....	782	43.0	36.0	17.6	37.1	70.9	6.1	0.33	7.77
<b>Energy Sources (more than one may apply)</b>									
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
<b>Space-Heating Energy Sources</b>									
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
<b>Primary Space-Heating Energy Source</b>									
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
<b>Cooling Energy Sources</b>									
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
<b>Water-Heating Energy Sources</b>									
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
<b>Cooking Energy Sources</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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

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

	Natural Gas Consumption						Natural Gas Expenditures		
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	per Worker (thousand cubic feet)	Distribution of Building-Level Intensities (cubic feet/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)
				25th Percentile	Median	75th Percentile			
<b>All Buildings*</b> .....	782	43.0	36.0	17.6	37.1	70.9	6.1	0.33	7.77
<b>Percent of Floorspace Heated</b>									
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
<b>Percent of Floorspace Cooled</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
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
<b>Water Heating Equipment</b>									
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

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

	Natural Gas Consumption						Natural Gas Expenditures		
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	per Worker (thousand cubic feet)	Distribution of Building-Level Intensities (cubic feet/square foot)					
				25th Percentile	Median	75th Percentile	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)
<b>All Buildings*</b> .....	782	43.0	36.0	17.6	37.1	70.9	6.1	0.33	7.77
<b>Energy-Related Space Functions (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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
<b>Annual Consumption (hundred cubic feet)</b>									
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
<b>Provider of Natural Gas (more than one may apply)</b>									
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/cbeecs>.

\* 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.

<sup>a</sup> 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
<b>All Buildings*</b> .....	415	683	460	311	9,181	13,163	13,311	7,813	45.2	51.9	34.6	39.8
<b>Building Floorspace (Square Feet)</b>												
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
<b>Principal Building Activity</b>												
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
<b>Year Constructed</b>												
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
<b>Climate Zone: 30-Year Average</b>												
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
<b>Number of Floors</b>												
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

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**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
<b>All Buildings*</b> .....	415	683	460	311	9,181	13,163	13,311	7,813	45.2	51.9	34.6	39.8
<b>Number of Workers (main shift)</b>												
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
<b>Weekly Operating Hours</b>												
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
<b>Ownership and Occupancy</b>												
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
<b>Vacancy Status</b>												
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
<b>Number of Establishments</b>												
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
<b>Predominant Exterior Wall Material</b>												
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

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**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
<b>All Buildings*</b> .....	415	683	460	311	9,181	13,163	13,311	7,813	45.2	51.9	34.6	39.8
<b>Predominant Roof Material</b>												
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>												
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
<b>Energy Sources (more than one may apply)</b>												
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
<b>Space-Heating Energy Sources</b>												
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
<b>Primary Space-Heating Energy Source</b>												
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

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**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
<b>All Buildings*</b> .....	415	683	460	311	9,181	13,163	13,311	7,813	45.2	51.9	34.6	39.8
<b>Cooling Energy Sources</b>												
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
<b>Water-Heating Energy Sources</b>												
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
<b>Cooking Energy Sources</b>												
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
<b>Energy End Uses (more than one may apply)</b>												
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
<b>Percent of Floorspace Heated</b>												
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
<b>Percent of Floorspace Cooled</b>												
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
<b>Heating Equipment (more than one may apply)</b>												
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



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**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
<b>All Buildings*</b> .....	415	683	460	311	9,181	13,163	13,311	7,813	45.2	51.9	34.6	39.8
<b>Cooling Equipment (more than one may apply)</b>												
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>												
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
<b>Water Heating Equipment</b>												
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
<b>Energy-Related Space Functions (more than one may apply)</b>												
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
<b>HVAC Conservation Features (more than one may apply)</b>												
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>												
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

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**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
<b>All Buildings*</b> .....	415	683	460	311	9,181	13,163	13,311	7,813	45.2	51.9	34.6	39.8
<b>Annual Consumption (hundred cubic feet)</b>												
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
<b>Provider of Natural Gas (more than one may apply)</b>												
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.

<sup>a</sup> 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
<b>All Buildings*</b> .....	3,553	4,844	3,866	2,261	8.56	7.09	8.40	7.28	0.39	0.37	0.29	0.29
<b>Building Floorspace (Square Feet)</b>												
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
<b>Principal Building Activity</b>												
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
<b>Year Constructed</b>												
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
<b>Climate Zone: 30-Year Average</b>												
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
<b>Number of Floors</b>												
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				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
<b>All Buildings*</b> .....	3,553	4,844	3,866	2,261	8.56	7.09	8.40	7.28	0.39	0.37	0.29	0.29
<b>Number of Workers (main shift)</b>												
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
<b>Weekly Operating Hours</b>												
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
<b>Ownership and Occupancy</b>												
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
<b>Vacancy Status</b>												
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
<b>Number of Establishments</b>												
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
<b>Predominant Exterior Wall Material</b>												
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				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
<b>All Buildings*</b> .....	3,553	4,844	3,866	2,261	8.56	7.09	8.40	7.28	0.39	0.37	0.29	0.29
<b>Predominant Roof Material</b>												
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>												
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
<b>Energy Sources (more than one may apply)</b>												
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
<b>Space-Heating Energy Sources</b>												
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
<b>Primary Space-Heating Energy Source</b>												
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				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
<b>All Buildings*</b> .....	3,553	4,844	3,866	2,261	8.56	7.09	8.40	7.28	0.39	0.37	0.29	0.29
<b>Cooling Energy Sources</b>												
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
<b>Water-Heating Energy Sources</b>												
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
<b>Cooking Energy Sources</b>												
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
<b>Energy End Uses (more than one may apply)</b>												
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
<b>Percent of Floorspace Heated</b>												
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
<b>Percent of Floorspace Cooled</b>												
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
<b>Heating Equipment (more than one may apply)</b>												
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				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
<b>All Buildings*</b> .....	3,553	4,844	3,866	2,261	8.56	7.09	8.40	7.28	0.39	0.37	0.29	0.29
<b>Cooling Equipment (more than one may apply)</b>												
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>												
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
<b>Water Heating Equipment</b>												
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
<b>Energy-Related Space Functions (more than one may apply)</b>												
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
<b>HVAC Conservation Features (more than one may apply)</b>												
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>												
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
<b>All Buildings*</b> .....	3,553	4,844	3,866	2,261	8.56	7.09	8.40	7.28	0.39	0.37	0.29	0.29
<b>Annual Consumption (hundred cubic feet)</b>												
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
<b>Provider of Natural Gas (more than one may apply)</b>												
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.

<sup>a</sup> 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
<b>All Buildings*</b> .....	73	343	512	1,465	7,716	9,570	49.5	44.4	53.5
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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
<b>Number of Floors</b>									
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

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**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
<b>All Buildings*</b> .....	73	343	512	1,465	7,716	9,570	49.5	44.4	53.5
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
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
<b>Vacancy Status</b>									
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
<b>Number of Establishments</b>									
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
<b>Predominant Exterior Wall Material</b>									
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

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**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
<b>All Buildings*</b> .....	73	343	512	1,465	7,716	9,570	49.5	44.4	53.5
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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
<b>Space-Heating Energy Sources</b>									
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
<b>Primary Space-Heating Energy Source</b>									
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

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**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
<b>All Buildings*</b> .....	73	343	512	1,465	7,716	9,570	49.5	44.4	53.5
<b>Cooling Energy Sources</b>									
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
<b>Water-Heating Energy Sources</b>									
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
<b>Cooking Energy Sources</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Percent of Floorspace Heated</b>									
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
<b>Percent of Floorspace Cooled</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	73	343	512	1,465	7,716	9,570	49.5	44.4	53.5
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
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
<b>Water Heating Equipment</b>									
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
<b>Energy-Related Space Functions (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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

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**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
<b>All Buildings*</b> .....	73	343	512	1,465	7,716	9,570	49.5	44.4	53.5
<b>Annual Consumption (hundred cubic feet)</b>									
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
<b>Provider of Natural Gas (more than one may apply)</b>									
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.

<sup>a</sup> 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
<b>All Buildings*</b> .....	171	210	99	3,593	6,326	2,281	47.6	33.2	43.3
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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
<b>Number of Floors</b>									
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

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**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
<b>All Buildings*</b> .....	171	210	99	3,593	6,326	2,281	47.6	33.2	43.3
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
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
<b>Vacancy Status</b>									
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
<b>Number of Establishments</b>									
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
<b>Predominant Exterior Wall Material</b>									
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



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**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
<b>All Buildings*</b> .....	171	210	99	3,593	6,326	2,281	47.6	33.2	43.3
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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
<b>Space-Heating Energy Sources</b>									
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
<b>Primary Space-Heating Energy Source</b>									
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

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**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
<b>All Buildings*</b> .....	171	210	99	3,593	6,326	2,281	47.6	33.2	43.3
<b>Cooling Energy Sources</b>									
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
<b>Water-Heating Energy Sources</b>									
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
<b>Cooking Energy Sources</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Percent of Floorspace Heated</b>									
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
<b>Percent of Floorspace Cooled</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	171	210	99	3,593	6,326	2,281	47.6	33.2	43.3
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
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
<b>Water Heating Equipment</b>									
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
<b>Energy-Related Space Functions (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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

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**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
<b>All Buildings*</b> .....	171	210	99	3,593	6,326	2,281	47.6	33.2	43.3
<b>Annual Consumption (hundred cubic feet)</b>									
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
<b>Provider of Natural Gas (more than one may apply)</b>									
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.

<sup>a</sup> 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	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
<b>All Buildings*</b> .....	151	162	149	4,704	2,797	5,016	32.2	57.9	29.7
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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
<b>Number of Floors</b>									
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

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**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	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
<b>All Buildings*</b> .....	151	162	149	4,704	2,797	5,016	32.2	57.9	29.7
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
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
<b>Vacancy Status</b>									
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
<b>Number of Establishments</b>									
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
<b>Predominant Exterior Wall Material</b>									
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

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**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	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
<b>All Buildings*</b> .....	151	162	149	4,704	2,797	5,016	32.2	57.9	29.7
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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
<b>Space-Heating Energy Sources</b>									
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
<b>Primary Space-Heating Energy Source</b>									
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

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**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	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
<b>All Buildings*</b> .....	151	162	149	4,704	2,797	5,016	32.2	57.9	29.7
<b>Cooling Energy Sources</b>									
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
<b>Water-Heating Energy Sources</b>									
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
<b>Cooking Energy Sources</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Percent of Floorspace Heated</b>									
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
<b>Percent of Floorspace Cooled</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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



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**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	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
<b>All Buildings*</b> .....	151	162	149	4,704	2,797	5,016	32.2	57.9	29.7
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
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
<b>Water Heating Equipment</b>									
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
<b>Energy-Related Space Functions (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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

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**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	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
<b>All Buildings*</b> .....	151	162	149	4,704	2,797	5,016	32.2	57.9	29.7
<b>Annual Consumption (hundred cubic feet)</b>									
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
<b>Provider of Natural Gas (more than one may apply)</b>									
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.

<sup>a</sup> 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<sup>a</sup> 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
<b>All Buildings*</b> .....	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
<b>Building Floorspace (Square Feet)</b>															
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
<b>Principal Building Activity</b>															
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
<b>Year Constructed</b>															
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
<b>Census Region and Division</b>															
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

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**Table C30. Natural Gas Consumption and Conditional Energy Intensity by Climate Zone<sup>a</sup> 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
<b>All Buildings*</b> .....	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
<b>Number of Floors</b>															
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
<b>Number of Workers (main shift)</b>															
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
<b>Weekly Operating Hours</b>															
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
<b>Ownership and Occupancy</b>															
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
<b>Vacancy Status</b>															
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
<b>Number of Establishments</b>															
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

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**Table C30. Natural Gas Consumption and Conditional Energy Intensity by Climate Zone<sup>a</sup> 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
<b>All Buildings*</b> .....	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
<b>Predominant Exterior Wall Material</b>															
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
<b>Predominant Roof Material</b>															
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>															
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
<b>Energy Sources (more than one may apply)</b>															
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

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**Table C30. Natural Gas Consumption and Conditional Energy Intensity by Climate Zone<sup>a</sup> 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
<b>All Buildings*</b> .....	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
<b>Space-Heating Energy Sources</b>															
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
<b>Primary Space-Heating Energy Source</b>															
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
<b>Cooling Energy Sources</b>															
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
<b>Water-Heating Energy Sources</b>															
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
<b>Cooking Energy Sources</b>															
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
<b>Energy End Uses (more than one may apply)</b>															
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
<b>Percent of Floorspace Heated</b>															
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
<b>Percent of Floorspace Cooled</b>															
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<sup>a</sup> 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
<b>All Buildings*</b> .....	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
<b>Heating Equipment (more than one may apply)</b>															
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
<b>Cooling Equipment (more than one may apply)</b>															
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>															
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
<b>Water Heating Equipment</b>															
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
<b>Energy-Related Space Functions (more than one may apply)</b>															
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
<b>HVAC Conservation Features (more than one may apply)</b>															
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<sup>a</sup> 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
<b>All Buildings*</b> .....	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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>b</sup></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
<b>Annual Consumption (hundred cubic feet)</b>															
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
<b>Provider of Natural Gas (more than one may apply)</b>															
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.

<sup>a</sup> 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.)

<sup>b</sup> 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
<b>All Buildings*</b> .....	445	786	638	6,776	19,761	16,931	65.7	39.8	37.7
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Census Region and Division</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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**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
<b>All Buildings*</b> .....	445	786	638	6,776	19,761	16,931	65.7	39.8	37.7
<b>Number of Floors</b>									
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
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
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
<b>Vacancy Status</b>									
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
<b>Number of Establishments</b>									
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
<b>All Buildings*</b> .....	445	786	638	6,776	19,761	16,931	65.7	39.8	37.7
<b>Predominant Exterior Wall Material</b>									
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
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	445	786	638	6,776	19,761	16,931	65.7	39.8	37.7
<b>Space-Heating Energy Sources</b>									
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
<b>Primary Space-Heating Energy Source</b>									
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
<b>Cooling Energy Sources</b>									
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
<b>Water-Heating Energy Sources</b>									
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
<b>Cooking Energy Sources</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Percent of Floorspace Heated</b>									
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

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**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
<b>All Buildings*</b> .....	445	786	638	6,776	19,761	16,931	65.7	39.8	37.7
<b>Percent of Floorspace Cooled</b>									
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
<b>Heating Equipment (more than one may apply)</b>									
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
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
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
<b>Water Heating Equipment</b>									
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
<b>Energy-Related Space Functions (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	445	786	638	6,776	19,761	16,931	65.7	39.8	37.7
<b>HVAC Conservation Features (more than one may apply)</b>									
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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
<b>Annual Consumption (hundred cubic feet)</b>									
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
<b>Provider of Natural Gas (more than one may apply)</b>									
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/cbeecs>.

\* 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.

<sup>a</sup> 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
<b>All Buildings*</b> .....	571	871	427	12,097	19,763	11,608	47.2	44.1	36.8
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Census Region and Division</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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**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
<b>All Buildings*</b> .....	571	871	427	12,097	19,763	11,608	47.2	44.1	36.8
<b>Number of Floors</b>									
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
<b>Number of Workers (main shift)</b>									
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
<b>Weekly Operating Hours</b>									
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
<b>Ownership and Occupancy</b>									
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
<b>Vacancy Status</b>									
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
<b>Number of Establishments</b>									
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



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**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
<b>All Buildings*</b> .....	571	871	427	12,097	19,763	11,608	47.2	44.1	36.8
<b>Predominant Exterior Wall Material</b>									
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
<b>Predominant Roof Material</b>									
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	571	871	427	12,097	19,763	11,608	47.2	44.1	36.8
<b>Space-Heating Energy Sources</b>									
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
<b>Primary Space-Heating Energy Source</b>									
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
<b>Cooling Energy Sources</b>									
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
<b>Water-Heating Energy Sources</b>									
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
<b>Cooking Energy Sources</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Percent of Floorspace Heated</b>									
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
<b>Percent of Floorspace Cooled</b>									
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

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**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
<b>All Buildings*</b> .....	571	871	427	12,097	19,763	11,608	47.2	44.1	36.8
<b>Heating Equipment (more than one may apply)</b>									
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
<b>Cooling Equipment (more than one may apply)</b>									
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
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>									
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
<b>Water Heating Equipment</b>									
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
<b>Energy-Related Space Functions (more than one may apply)</b>									
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
<b>HVAC Conservation Features (more than one may apply)</b>									
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

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**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
<b>All Buildings*</b> .....	571	871	427	12,097	19,763	11,608	47.2	44.1	36.8
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>									
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
<b>Annual Consumption (hundred cubic feet)</b>									
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
<b>Provider of Natural Gas (more than one may apply)</b>									
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/cbeecs>.

\* 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.

<sup>a</sup> 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)
<b>All Buildings*</b> .....	451	15,157	34	222	1,602	1,776
<b>Building Floorspace (Square Feet)</b>						
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
<b>Principal Building Activity</b>						
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
<b>Year Constructed</b>						
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
<b>Census Region and Division</b>						
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

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**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)
<b>All Buildings*</b> .....	451	15,157	34	222	1,602	1,776
<b>Climate Zone: 30-Year Average</b>						
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
<b>Number of Floors</b>						
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
<b>Number of Workers (main shift)</b>						
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
<b>Weekly Operating Hours</b>						
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
<b>Ownership and Occupancy</b>						
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
<b>Vacancy Status</b>						
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

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**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)
<b>All Buildings*</b> .....	451	15,157	34	222	1,602	1,776
<b>Number of Establishments</b>						
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
<b>Predominant Exterior Wall Material</b>						
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
<b>Predominant Roof Material</b>						
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>						
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

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**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)
<b>All Buildings*</b> .....	451	15,157	34	222	1,602	1,776
<b>Energy Sources (more than one may apply)</b>						
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
<b>Space-Heating Energy Sources</b>						
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
<b>Primary Space-Heating Energy Source</b>						
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
<b>Cooling Energy Sources</b>						
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
<b>Water-Heating Energy Sources</b>						
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
<b>Cooking Energy Sources</b>						
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
<b>Energy End Uses (more than one may apply)</b>						
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



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**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)
<b>All Buildings*</b> .....	451	15,157	34	222	1,602	1,776
<b>Percent of Floorspace Heated</b>						
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
<b>Heating Equipment (more than one may apply)</b>						
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
<b>Water Heating Equipment</b>						
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
<b>Energy-Related Space Functions (more than one may apply)</b>						
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
<b>HVAC Conservation Features (more than one may apply)</b>						
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>						
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

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**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)
<b>All Buildings*</b> .....	451	15,157	34	222	1,602	1,776
<b>Annual Consumption (gallons)</b>						
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.

<sup>a</sup> 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)
<b>All Buildings*</b> .....	3,555	0.11	81.6	3.9	0.12	1.11
<b>Building Floorspace (Square Feet)</b>						
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
<b>Principal Building Activity</b>						
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
<b>Year Constructed</b>						
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
<b>Census Region and Division</b>						
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

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**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)
<b>All Buildings*</b> .....	3,555	0.11	81.6	3.9	0.12	1.11
<b>Climate Zone: 30-Year Average</b>						
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
<b>Number of Floors</b>						
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
<b>Number of Workers (main shift)</b>						
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
<b>Weekly Operating Hours</b>						
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
<b>Ownership and Occupancy</b>						
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
<b>Vacancy Status</b>						
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
<b>Number of Establishments</b>						
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

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**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)
<b>All Buildings*</b> .....	3,555	0.11	81.6	3.9	0.12	1.11
<b>Predominant Exterior Wall Material</b>						
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
<b>Predominant Roof Material</b>						
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>						
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
<b>Energy Sources (more than one may apply)</b>						
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
<b>Space-Heating Energy Sources</b>						
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

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**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)
<b>All Buildings*</b> .....	3,555	0.11	81.6	3.9	0.12	1.11
<b>Primary Space-Heating Energy Source</b>						
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
<b>Cooling Energy Sources</b>						
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
<b>Water-Heating Energy Sources</b>						
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
<b>Cooking Energy Sources</b>						
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
<b>Energy End Uses (more than one may apply)</b>						
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
<b>Percent of Floorspace Heated</b>						
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
<b>Heating Equipment (more than one may apply)</b>						
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

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**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)
<b>All Buildings*</b> .....	3,555	0.11	81.6	3.9	0.12	1.11
<b>Water Heating Equipment</b>						
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
<b>Energy-Related Space Functions (more than one may apply)</b>						
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
<b>HVAC Conservation Features (more than one may apply)</b>						
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>						
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
<b>Annual Consumption (gallons)</b>						
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/cbeecs>.

\* 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.

<sup>a</sup> 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
<b>All Buildings*</b> .....	1,265	170	104	63	6,080	2,832	4,122	2,123	0.21	0.06	0.03	Q
<b>Building Floorspace (Square Feet)</b>												
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
<b>Principal Building Activity</b>												
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
<b>Year Constructed</b>												
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
<b>Climate Zone: 30-Year Average</b>												
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
<b>Number of Floors</b>												
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
<b>Number of Workers (main shift)</b>												
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
<b>Weekly Operating Hours</b>												
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
<b>Ownership and Occupancy</b>												
Nongovernment Owned .....												
Owner Occupied .....	865	Q	71	34	4,568	1,938	3,132	1,736	0.19	Q	0.02	0.02
Nonowner Occupied .....	517	24	39	7	2,790	1,010	1,641	650	0.19	0.02	0.02	0.01
Unoccupied .....	348	Q	32	Q	1,711	927	1,491	1,085	0.20	Q	0.02	Q
Government Owned .....												
Federal .....	Q	N	N	N	Q	N	N	N	Q	N	N	N
State .....	400	33	Q	Q	1,512	894	990	387	0.26	0.04	Q	Q
Local .....	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



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**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
<b>All Buildings*</b> .....	1,265	170	104	63	6,080	2,832	4,122	2,123	0.21	0.06	0.03	Q
<b>Vacancy Status</b>												
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
<b>Number of Establishments</b>												
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
<b>Predominant Exterior Wall Material</b>												
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
<b>Predominant Roof Material</b>												
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>												
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

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**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
<b>All Buildings*</b> .....	1,265	170	104	63	6,080	2,832	4,122	2,123	0.21	0.06	0.03	Q
<b>Energy Sources (more than one may apply)</b>												
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
<b>Space-Heating Energy Sources</b>												
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
<b>Primary Space-Heating Energy Source</b>												
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
<b>Cooling Energy Sources</b>												
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
<b>Water-Heating Energy Sources</b>												
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
<b>Cooking Energy Sources</b>												
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
<b>Energy End Uses (more than one may apply)</b>												
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

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**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
<b>All Buildings*</b> .....	1,265	170	104	63	6,080	2,832	4,122	2,123	0.21	0.06	0.03	Q
<b>Percent of Floorspace Heated</b>												
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
<b>Heating Equipment (more than one may apply)</b>												
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
<b>Water Heating Equipment</b>												
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
<b>Energy-Related Space Functions (more than one may apply)</b>												
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
<b>HVAC Conservation Features (more than one may apply)</b>												
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>												
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

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**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
<b>All Buildings*</b> .....	1,265	170	104	63	6,080	2,832	4,122	2,123	0.21	0.06	0.03	Q
<b>Annual Consumption (gallons)</b>												
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/cbeecs>.

\* 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				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
<b>All Buildings*</b> .....	1,393	176	125	81	1.10	1.03	1.21	1.28	0.23	0.06	0.03	Q
<b>Building Floorspace (Square Feet)</b>												
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
<b>Principal Building Activity</b>												
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
<b>Year Constructed</b>												
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
<b>Climate Zone: 30-Year Average</b>												
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
<b>Number of Floors</b>												
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
<b>Number of Workers (main shift)</b>												
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
<b>Weekly Operating Hours</b>												
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
<b>Ownership and Occupancy</b>												
Nongovernment Owned .....												
Owner Occupied .....	976	140	90	Q	1.13	1.02	1.27	1.27	0.21	Q	0.03	Q
Nonowner Occupied .....	583	27	52	9	1.13	1.13	1.32	1.16	0.21	0.03	0.03	0.01
Unoccupied .....	392	Q	38	Q	1.13	1.00	1.20	1.30	0.23	Q	0.03	Q
Government Owned .....												
Federal .....	Q	N	N	N	Q	N	N	N	Q	N	N	N
State .....	417	36	Q	Q	1.04	1.09	1.08	1.31	0.28	Q	Q	Q
Local .....	Q	Q	Q	Q	Q	Q	1.09	Q	Q	Q	0.00	Q
	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
	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				per Square Foot			
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West
<b>All Buildings*</b> .....	1,393	176	125	81	1.10	1.03	1.21	1.28	0.23	0.06	0.03	Q
<b>Vacancy Status</b>												
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
<b>Number of Establishments</b>												
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
<b>Predominant Exterior Wall Material</b>												
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
<b>Predominant Roof Material</b>												
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>												
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

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**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				per Square Foot			
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West
<b>All Buildings*</b> .....	1,393	176	125	81	1.10	1.03	1.21	1.28	0.23	0.06	0.03	Q
<b>Energy Sources (more than one may apply)</b>												
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
<b>Space-Heating Energy Sources</b>												
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
<b>Primary Space-Heating Energy Source</b>												
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
<b>Cooling Energy Sources</b>												
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
<b>Water-Heating Energy Sources</b>												
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
<b>Cooking Energy Sources</b>												
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
<b>Energy End Uses (more than one may apply)</b>												
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
<b>Percent of Floorspace Heated</b>												
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

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**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				per Square Foot			
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West
<b>All Buildings*</b> .....	1,393	176	125	81	1.10	1.03	1.21	1.28	0.23	0.06	0.03	Q
<b>Heating Equipment (more than one may apply)</b>												
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
<b>Water Heating Equipment</b>												
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
<b>Energy-Related Space Functions (more than one may apply)</b>												
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
<b>HVAC Conservation Features (more than one may apply)</b>												
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>												
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				per Square Foot			
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West
<b>All Buildings*</b> .....	1,393	176	125	81	1.10	1.03	1.21	1.28	0.23	0.06	0.03	Q
<b>Annual Consumption (gallons)</b>												
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/cbeecs>.

\* 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.

<sup>a</sup> 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)
<b>All Buildings*</b> .....	67	5,443	81	634	7,245
<b>Building Floorspace (Square Feet)</b>					
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
<b>Principal Building Activity</b>					
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
<b>Year Constructed</b>					
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
<b>Census Region and Division</b>					
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

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**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)
<b>All Buildings*</b> .....	67	5,443	81	634	7,245
<b>Climate Zone: 30-Year Average</b>					
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
<b>Number of Floors</b>					
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
<b>Number of Workers (main shift)</b>					
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
<b>Weekly Operating Hours</b>					
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
<b>Ownership and Occupancy</b>					
Nongovernment Owned .....					
Owner Occupied .....	25	2,148	87	247	2,746
Nonowner Occupied .....	16	1,421	87	185	2,078
Unoccupied .....	8	698	86	Q	Q
Government Owned .....	Q	Q	Q	Q	Q
Government Owned .....					
Federal .....	42	3,295	78	387	4,499
State .....	4	Q	219	Q	Q
Local .....	27	1,694	63	188	Q
	11	653	59	Q	Q
<b>Vacancy Status</b>					
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
<b>Number of Establishments</b>					
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

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**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)
<b>All Buildings*</b> .....	67	5,443	81	634	7,245
<b>Predominant Exterior Wall Material</b>					
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
<b>Predominant Roof Material</b>					
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>					
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
<b>Energy Sources (more than one may apply)</b>					
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

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**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)
<b>All Buildings*</b> .....	67	5,443	81	634	7,245
<b>Space-Heating Energy Sources</b>					
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
<b>Primary Space-Heating Energy Source</b>					
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
<b>Cooling Energy Sources</b>					
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
<b>Water-Heating Energy Sources</b>					
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
<b>Cooking Energy Sources</b>					
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
<b>Energy End Uses (more than one may apply)</b>					
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
<b>Percent of Floorspace Heated</b>					
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

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**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)
<b>All Buildings*</b> .....	67	5,443	81	634	7,245
<b>Heating Equipment (more than one may apply)</b>					
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
<b>Water Heating Equipment</b>					
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
<b>Energy-Related Space Functions (more than one may apply)</b>					
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
<b>HVAC Conservation Features (more than one may apply)</b>					
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>					
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

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**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/cbeecs>.

\* 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.

<sup>a</sup> 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)
<b>All Buildings*</b> .....	9,475	116.44	62.2	108.3	1.33	11.43
<b>Building Floorspace (Square Feet)</b>						
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
<b>Principal Building Activity</b>						
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
<b>Year Constructed</b>						
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
<b>Census Region and Division</b>						
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



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**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)
<b>All Buildings*</b> .....	9,475	116.44	62.2	108.3	1.33	11.43
<b>Climate Zone: 30-Year Average</b>						
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
<b>Number of Floors</b>						
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
<b>Number of Workers (main shift)</b>						
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
<b>Weekly Operating Hours</b>						
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
<b>Ownership and Occupancy</b>						
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
<b>Vacancy Status</b>						
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
<b>Number of Establishments</b>						
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

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**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)
<b>All Buildings*</b> .....	9,475	116.44	62.2	108.3	1.33	11.43
<b>Predominant Exterior Wall Material</b>						
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
<b>Predominant Roof Material</b>						
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
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>						
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
<b>Energy Sources (more than one may apply)</b>						
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

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**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)
<b>All Buildings*</b> .....	9,475	116.44	62.2	108.3	1.33	11.43
<b>Space-Heating Energy Sources</b>						
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
<b>Primary Space-Heating Energy Source</b>						
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
<b>Cooling Energy Sources</b>						
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
<b>Water-Heating Energy Sources</b>						
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
<b>Cooking Energy Sources</b>						
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
<b>Energy End Uses (more than one may apply)</b>						
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
<b>Percent of Floorspace Heated</b>						
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

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**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)
<b>All Buildings*</b> .....	9,475	116.44	62.2	108.3	1.33	11.43
<b>Heating Equipment (more than one may apply)</b>						
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
<b>Water Heating Equipment</b>						
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
<b>Energy-Related Space Functions (more than one may apply)</b>						
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
<b>HVAC Conservation Features (more than one may apply)</b>						
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
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)<sup>a</sup></b>						
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

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**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)
<b>All Buildings*</b> .....	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.

<sup>a</sup> 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)					
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat
				Primary	Site			
<b>All Buildings</b> .....	4,859	71,658	6,523	10,746	3,559	2,100	228	636
<b>Building Floorspace (Square Feet)</b>								
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
<b>Principal Building Activity</b>								
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
<b>Year Constructed</b>								
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
<b>Census Region and Division</b>								
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

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**Table C1A. Total Energy Consumption by Major Fuel for All Buildings, 2003**

	All Buildings		Total Energy Consumption (trillion Btu)					
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat
				Primary	Site			
<b>All Buildings</b> .....	4,859	71,658	6,523	10,746	3,559	2,100	228	636
<b>Climate Zone: 30-Year Average</b>								
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
<b>Number of Establishments</b>								
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
<b>Energy Sources (more than one may apply)</b>								
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
<b>Energy End Uses (more than one may apply)</b>								
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
<b>All Buildings</b> .....	4,859	71,658	107,897	82,783	16,010	1,826	7,279
<b>Building Floorspace (Square Feet)</b>							
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
<b>Principal Building Activity</b>							
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
<b>Year Constructed</b>							
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
<b>Census Region and Division</b>							
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

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**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
<b>All Buildings</b> .....	4,859	71,658	107,897	82,783	16,010	1,826	7,279
<b>Climate Zone: 30-Year Average</b>							
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
<b>Number of Establishments</b>							
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
<b>Energy Sources (more than one may apply)</b>							
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
<b>Energy End Uses (more than one may apply)</b>							
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/cbeecs>.

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)
<b>All Buildings</b> .....	4,859	71,658	14.7	6,523	1,342	91.0
<b>Building Floorspace (Square Feet)</b>						
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
<b>Principal Building Activity</b>						
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
<b>Year Constructed</b>						
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
<b>Census Region and Division</b>						
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

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**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)
<b>All Buildings</b> .....	4,859	71,658	14.7	6,523	1,342	91.0
<b>Climate Zone: 30-Year Average</b>						
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
<b>Number of Establishments</b>						
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
<b>Energy Sources (more than one may apply)</b>						
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
<b>Energy End Uses (more than one may apply)</b>						
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)
<b>All Buildings</b> .....	4,859	71,658	14.7	107,897	22.2	1.51	16.54
<b>Building Floorspace (Square Feet)</b>							
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
<b>Principal Building Activity</b>							
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
<b>Year Constructed</b>							
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
<b>Census Region and Division</b>							
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

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**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)
<b>All Buildings</b> .....	4,859	71,658	14.7	107,897	22.2	1.51	16.54
<b>Climate Zone: 30-Year Average</b>							
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
<b>Number of Establishments</b>							
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
<b>Energy Sources (more than one may apply)</b>							
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
<b>Energy End Uses (more than one may apply)</b>							
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
<b>All Buildings</b> .....	1,396	1,799	2,265	1,063	13,995	18,103	26,739	12,820	99.8	99.4	84.7	82.9
<b>Building Floorspace (Square Feet)</b>												
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
<b>Principal Building Activity</b>												
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
<b>Year Constructed</b>												
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
<b>Climate Zone: 30-Year Average</b>												
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

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**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
<b>All Buildings</b> .....	1,396	1,799	2,265	1,063	13,995	18,103	26,739	12,820	99.8	99.4	84.7	82.9
<b>Number of Establishments</b>												
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
<b>Energy Sources (more than one may apply)</b>												
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
<b>Energy End Uses (more than one may apply)</b>												
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/cbeecs>.

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
<b>All Buildings</b> .....	24,395	23,398	38,398	21,706	17.47	13.01	16.95	20.42	1.74	1.29	1.44	1.69
<b>Building Floorspace (Square Feet)</b>												
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
<b>Principal Building Activity</b>												
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
<b>Year Constructed</b>												
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
<b>Climate Zone: 30-Year Average</b>												
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

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**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
<b>All Buildings</b> .....	24,395	23,398	38,398	21,706	17.47	13.01	16.95	20.42	1.74	1.29	1.44	1.69
<b>Number of Establishments</b>												
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
<b>Energy Sources (more than one may apply)</b>												
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
<b>Energy End Uses (more than one may apply)</b>												
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/cbeecs>.

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
<b>All Buildings</b> .....	345	1,052	1,343	3,452	10,543	12,424	99.8	99.7	108.1
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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**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
<b>All Buildings</b> .....	345	1,052	1,343	3,452	10,543	12,424	99.8	99.7	108.1
<b>Number of Establishments</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>All Buildings</b> .....	456	1,241	340	5,680	13,999	3,719	80.2	88.7	91.4
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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**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
<b>All Buildings</b> .....	456	1,241	340	5,680	13,999	3,719	80.2	88.7	91.4
<b>Number of Establishments</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
<b>All Buildings</b> .....	684	446	617	9,022	4,207	8,613	75.8	106.1	71.6
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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**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	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
<b>All Buildings</b> .....	684	446	617	9,022	4,207	8,613	75.8	106.1	71.6
<b>Number of Establishments</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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/cbeecs>.

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<sup>a</sup> 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
<b>All Buildings</b> .....	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
<b>Building Floorspace (Square Feet)</b>															
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
<b>Principal Building Activity</b>															
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
<b>Year Constructed</b>															
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
<b>Census Region and Division</b>															
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

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**Table C10A. Consumption and Gross Energy Intensity by Climate Zone<sup>a</sup> 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
<b>All Buildings</b> .....	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
<b>Number of Establishments</b>															
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
<b>Energy Sources (more than one may apply)</b>															
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
<b>Energy End Uses (more than one may apply)</b>															
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
<b>All Buildings</b> .....	1,248	2,553	2,721	13,955	32,332	25,371	89.4	79.0	107.3
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Census Region and Division</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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**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
<b>All Buildings</b> .....	1,248	2,553	2,721	13,955	32,332	25,371	89.4	79.0	107.3
<b>Number of Establishments</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>All Buildings</b> .....	1,522	3,228	1,772	18,031	33,384	20,243	84.4	96.7	87.6
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Census Region and Division</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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**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
<b>All Buildings</b> .....	1,522	3,228	1,772	18,031	33,384	20,243	84.4	96.7	87.6
<b>Number of Establishments</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	
<b>All Buildings</b> .....	4,617	70,181	15.2	10,746	3,559	1,043	82,783
<b>Building Floorspace (Square Feet)</b>							
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
<b>Principal Building Activity</b>							
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
<b>Year Constructed</b>							
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
<b>Census Region and Division</b>							
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
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	
<b>All Buildings</b> .....	4,617	70,181	15.2	10,746	3,559	1,043	82,783
<b>Climate Zone: 30-Year Average</b>							
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
<b>Number of Establishments</b>							
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
<b>Energy Sources (more than one may apply)</b>							
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
<b>Energy End Uses (more than one may apply)</b>							
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
<b>Annual Consumption (kilowatthours)</b>							
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/cbeecs>.

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		
	per Building (thousand kWh)	per Square Foot (kWh)	Distribution of Building-Level Intensities (kWh/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
			25th Per-centile	Median	75th Per-centile			
<b>All Buildings</b> .....	226	14.9	3.8	8.8	18.1	17.9	1.18	0.079
<b>Building Floorspace (Square Feet)</b>								
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
<b>Principal Building Activity</b>								
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
<b>Year Constructed</b>								
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
<b>Census Region and Division</b>								
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		
	per Building (thousand kWh)	per Square Foot (kWh)	Distribution of Building-Level Intensities (kWh/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)
			25th Per-centile	Median	75th Per-centile			
<b>All Buildings</b> .....	226	14.9	3.8	8.8	18.1	17.9	1.18	0.079
<b>Climate Zone: 30-Year Average</b>								
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
<b>Number of Establishments</b>								
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
<b>Energy Sources (more than one may apply)</b>								
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
<b>Energy End Uses (more than one may apply)</b>								
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
<b>Annual Consumption (kilowatthours)</b>								
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
<b>All Buildings</b> .....	172	234	452	185	13,899	17,725	26,017	12,541	12.4	13.2	17.4	14.7
<b>Building Floorspace (Square Feet)</b>												
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
<b>Principal Building Activity</b>												
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
<b>Year Constructed</b>												
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
<b>Climate Zone: 30-Year Average</b>												
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

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**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
<b>All Buildings</b> .....	172	234	452	185	13,899	17,725	26,017	12,541	12.4	13.2	17.4	14.7
<b>Number of Establishments</b>												
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
<b>Energy Sources (more than one may apply)</b>												
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
<b>Energy End Uses (more than one may apply)</b>												
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
<b>Annual Consumption (kilowatthours)</b>												
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				per Square Foot			
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West
<b>All Buildings</b> .....	16,907	15,677	31,849	18,350	0.10	0.07	0.07	0.10	1.22	0.88	1.22	1.46
<b>Building Floorspace</b> <b>(Square Feet)</b>												
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
<b>Principal Building Activity</b>												
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
<b>Year Constructed</b>												
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
<b>Climate Zone: 30-Year Average</b>												
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
<b>Number of Establishments</b>												
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

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**Table C16A. Electricity Expenditures by Census Region for All 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
<b>All Buildings</b> .....	16,907	15,677	31,849	18,350	0.10	0.07	0.07	0.10	1.22	0.88	1.22	1.46
<b>Energy Sources (more than one may apply)</b>												
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
<b>Energy End Uses (more than one may apply)</b>												
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
<b>Annual Consumption (kilowatthours)</b>												
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
<b>All Buildings</b> .....	41	131	168	3,430	10,469	12,202	12.0	12.5	13.8
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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**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
<b>All Buildings</b> .....	41	131	168	3,430	10,469	12,202	12.0	12.5	13.8
<b>Number of Establishments</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Annual Consumption (kilowatthours)</b>									
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
<b>All Buildings</b> .....	66	254	57	5,523	13,837	3,546	12.0	18.3	16.2
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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**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
<b>All Buildings .....</b>	66	254	57	5,523	13,837	3,546	12.0	18.3	16.2
<b>Number of Establishments</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Annual Consumption (kilowatthours)</b>									
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	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
<b>All Buildings</b> .....	141	68	117	8,634	4,165	8,376	16.3	16.3	14.0
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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**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	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
<b>All Buildings</b> .....	141	68	117	8,634	4,165	8,376	16.3	16.3	14.0
<b>Number of Establishments</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Annual Consumption (kilowatthours)</b>									
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<sup>a</sup> 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
<b>All Buildings</b> .....	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
<b>Building Floorspace (Square Feet)</b>															
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
<b>Principal Building Activity</b>															
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
<b>Year Constructed</b>															
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
<b>Census Region and Division</b>															
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

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**Table C20A. Electricity Consumption and Conditional Energy Intensity by Climate Zone<sup>a</sup> 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
<b>All Buildings</b> .....	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
<b>Number of Establishments</b>															
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
<b>Energy Sources (more than one may apply)</b>															
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
<b>Energy End Uses (more than one may apply)</b>															
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
<b>Annual Consumption (kilowatthours)</b>															
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
<b>All Buildings .....</b>	201	412	431	13,124	31,858	25,200	15.3	12.9	17.1
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Census Region and Division</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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**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
<b>All Buildings</b> .....	201	412	431	13,124	31,858	25,200	15.3	12.9	17.1
<b>Number of Establishments</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Annual Consumption (kilowatthours)</b>									
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
<b>All Buildings</b> .....	162	538	343	17,509	32,945	19,727	9.2	16.3	17.4
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Census Region and Division</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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**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
<b>All Buildings</b> .....	162	538	343	17,509	32,945	19,727	9.2	16.3	17.4
<b>Number of Establishments</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Annual Consumption (kilowatthours)</b>									
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)
<b>All Buildings .....</b>	2,538	48,473	19.1	2,100	2,037	16,010
<b>Building Floorspace (Square Feet)</b>						
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
<b>Principal Building Activity</b>						
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
<b>Year Constructed</b>						
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
<b>Census Region and Division</b>						
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

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**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)
<b>All Buildings</b> .....	2,538	48,473	19.1	2,100	2,037	16,010
<b>Climate Zone: 30-Year Average</b>						
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
<b>Number of Establishments</b>						
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
<b>Energy Sources (more than one may apply)</b>						
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
<b>Energy End Uses (more than one may apply)</b>						
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
<b>Annual Consumption (hundred cubic feet)</b>						
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		
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	Distribution of Building-Level Intensities (cubic feet/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)
			25th Per-centile	Median	75th Per-centile			
<b>All Buildings</b> .....	803	42.0	17.9	37.4	71.0	6.3	0.33	7.86
<b>Building Floorspace (Square Feet)</b>								
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
<b>Principal Building Activity</b>								
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
<b>Year Constructed</b>								
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
<b>Census Region and Division</b>								
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		
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	Distribution of Building-Level Intensities (cubic feet/square foot)					
			25th Per-centile	Median	75th Per-centile	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)
<b>All Buildings</b> .....	803	42.0	17.9	37.4	71.0	6.3	0.33	7.86
<b>Climate Zone: 30-Year Average</b>								
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
<b>Number of Establishments</b>								
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
<b>Energy Sources (more than one may apply)</b>								
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
<b>Energy End Uses (more than one may apply)</b>								
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
<b>Annual Consumption (hundred cubic feet)</b>								
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
<b>All Buildings</b> .....	448	728	511	350	10,162	14,144	15,260	8,907	44.1	51.5	33.5	39.3
<b>Building Floorspace (Square Feet)</b>												
1,000 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
<b>Principal Building Activity</b>												
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
<b>Year Constructed</b>												
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
<b>Climate Zone: 30-Year Average</b>												
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

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**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
<b>All Buildings</b> .....	448	728	511	350	10,162	14,144	15,260	8,907	44.1	51.5	33.5	39.3
<b>Number of Establishments</b>												
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
<b>Energy Sources (more than one may apply)</b>												
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
<b>Energy End Uses (more than one may apply)</b>												
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
<b>Annual Consumption (hundred cubic feet)</b>												
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
<b>All Buildings</b> .....	3,883	5,215	4,356	2,557	8.66	7.16	8.53	7.31	0.38	0.37	0.29	0.29
<b>Building Floorspace (Square Feet)</b>												
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
<b>Principal Building Activity</b>												
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
<b>Year Constructed</b>												
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
<b>Climate Zone: 30-Year Average</b>												
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
<b>Number of Establishments</b>												
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

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**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
<b>All Buildings</b> .....	3,883	5,215	4,356	2,557	8.66	7.16	8.53	7.31	0.38	0.37	0.29	0.29
<b>Energy Sources (more than one may apply)</b>												
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
<b>Energy End Uses (more than one may apply)</b>												
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
<b>Annual Consumption (hundred cubic feet)</b>												
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
<b>All Buildings</b> .....	85	364	550	1,861	8,301	10,356	45.4	43.8	53.1
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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**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
<b>All Buildings</b> .....	85	364	550	1,861	8,301	10,356	45.4	43.8	53.1
<b>Number of Establishments</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Annual Consumption (hundred cubic feet)</b>									
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
<b>All Buildings</b> .....	178	238	104	3,788	7,286	2,521	47.0	32.7	41.3
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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**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
<b>All Buildings</b> .....	178	238	104	3,788	7,286	2,521	47.0	32.7	41.3
<b>Number of Establishments</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Annual Consumption (hundred cubic feet)</b>									
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	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
<b>All Buildings</b> .....	168	185	165	5,453	3,263	5,644	30.9	56.6	29.2
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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**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	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
<b>All Buildings</b> .....	168	185	165	5,453	3,263	5,644	30.9	56.6	29.2
<b>Number of Establishments</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Annual Consumption (hundred cubic feet)</b>									
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<sup>a</sup> 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
<b>All Buildings</b> .....	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
<b>Building Floorspace (Square Feet)</b>															
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
<b>Principal Building Activity</b>															
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
<b>Year Constructed</b>															
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
<b>Census Region and Division</b>															
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

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**Table C30A. Natural Gas Consumption and Conditional Energy Intensity by Climate Zone<sup>a</sup> 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
<b>All Buildings</b> .....	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
<b>Number of Establishments</b>															
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
<b>Energy Sources (more than one may apply)</b>															
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
<b>Energy End Uses (more than one may apply)</b>															
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
<b>Annual Consumption (hundred cubic feet)</b>															
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>.

<sup>a</sup> 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
<b>All Buildings .....</b>	467	882	688	7,144	21,928	19,401	65.4	40.2	35.5
<b>Principal Building Activity</b>									
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
<b>Year Constructed</b>									
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
<b>Census Region and Division</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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**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
<b>All Buildings</b> .....	467	882	688	7,144	21,928	19,401	65.4	40.2	35.5
<b>Number of Establishments</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Annual Consumption (hundred cubic feet)</b>									
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
<b>All Buildings</b> .....	580	986	471	12,407	22,762	13,304	46.8	43.3	35.4
<b>Building Floorspace (Square Feet)</b>									
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
<b>Principal Building Activity</b>									
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
<b>Census Region and Division</b>									
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
<b>Climate Zone: 30-Year Average</b>									
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

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**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
<b>All Buildings</b> .....	580	986	471	12,407	22,762	13,304	46.8	43.3	35.4
<b>Number of Establishments</b>									
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
<b>Energy Sources (more than one may apply)</b>									
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
<b>Energy End Uses (more than one may apply)</b>									
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
<b>Annual Consumption (hundred cubic feet)</b>									
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/cbeecs>.

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)
<b>All Buildings</b> .....	465	16,265	35	228	1,644	1,826
<b>Building Floorspace (Square Feet)</b>						
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
<b>Principal Building Activity</b>						
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
<b>Year Constructed</b>						
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
<b>Census Region and Division</b>						
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)
<b>All Buildings</b> .....	465	16,265	35	228	1,644	1,826
<b>Climate Zone: 30-Year Average</b>						
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
<b>Number of Establishments</b>						
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
<b>Energy Sources (more than one may apply)</b>						
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
<b>Energy End Uses (more than one may apply)</b>						
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
<b>Annual Consumption (gallons)</b>						
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)
<b>All Buildings</b> .....	3,533	0.10	3.9	0.11	1.11
<b>Building Floorspace (Square Feet)</b>					
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
<b>Principal Building Activity</b>					
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
<b>Year Constructed</b>					
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
<b>Census Region and Division</b>					
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

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**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)
<b>All Buildings</b> .....	3,533	0.10	3.9	0.11	1.11
<b>Climate Zone: 30-Year Average</b>					
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
<b>Number of Establishments</b>					
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
<b>Energy Sources (more than one may apply)</b>					
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
<b>Energy End Uses (more than one may apply)</b>					
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
<b>Annual Consumption (gallons)</b>					
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
<b>All Buildings</b> .....	1,302	172	107	64	6,464	2,909	4,663	2,230	0.20	0.06	0.02	Q
<b>Building Floorspace (Square Feet)</b>												
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
<b>Principal Building Activity</b>												
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
<b>Year Constructed</b>												
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
<b>Climate Zone: 30-Year Average</b>												
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
<b>Number of Establishments</b>												
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
<b>Energy Sources (more than one may apply)</b>												
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
<b>Energy End Uses (more than one may apply)</b>												
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

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**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
<b>All Buildings</b> .....	1,302	172	107	64	6,464	2,909	4,663	2,230	0.20	0.06	0.02	Q
<b>Annual Consumption (gallons)</b>												
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/cbeecs>.

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				per Square Foot			
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West
<b>All Buildings</b> .....	1,437	178	130	82	1.10	1.04	1.21	1.28	0.22	0.06	0.03	Q
<b>Building Floorspace (Square Feet)</b>												
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
<b>Principal Building Activity</b>												
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
<b>Year Constructed</b>												
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
<b>Climate Zone: 30-Year Average</b>												
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
<b>Number of Establishments</b>												
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
<b>Energy Sources (more than one may apply)</b>												
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
<b>Energy End Uses (more than one may apply)</b>												
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

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**Table C36A. Fuel Oil Expenditures by Census Region for All Buildings, 2003**

	Total Fuel Oil Expenditures (million dollars)				Fuel Oil Expenditures (dollars)							
					per Gallon				per Square Foot			
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West
<b>All Buildings</b> .....	1,437	178	130	82	1.10	1.04	1.21	1.28	0.22	0.06	0.03	Q
<b>Annual Consumption (gallons)</b>												
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)
<b>All Buildings</b> .....	67	5,576	83	636	7,279
<b>Building Floorspace (Square Feet)</b>					
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
<b>Principal Building Activity</b>					
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
<b>Year Constructed</b>					
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
<b>Census Region and Division</b>					
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

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**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)
<b>All Buildings</b> .....	67	5,576	83	636	7,279
<b>Climate Zone: 30-Year Average</b>					
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
<b>Number of Establishments</b>					
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
<b>Energy Sources (more than one may apply)</b>					
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
<b>Energy End Uses (more than one may apply)</b>					
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/cbeecs>.

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)
<b>All Buildings</b> .....	9,470	113.98	108.4	1.31	11.45
<b>Building Floorspace (Square Feet)</b>					
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
<b>Principal Building Activity</b>					
Education .....	5,223	116.63	Q	Q	Q
Food Sales .....	N	N	N	N	Q
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
<b>Year Constructed</b>					
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
<b>Census Region and Division</b>					
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

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**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)
<b>All Buildings</b> .....	9,470	113.98	108.4	1.31	11.45
<b>Climate Zone: 30-Year Average</b>					
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
<b>Number of Establishments</b>					
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
<b>Energy Sources (more than one may apply)</b>					
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
<b>Energy End Uses (more than one may apply)</b>					
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/cbeecs>.

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 E1. Major Fuel Consumption (Btu) by End Use for Non-Mall Buildings, 2003**

	Total Major Fuel Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	5,820	2,203	431	384	448	1,143	167	354	64	148	478
<b>Building Floorspace (Square Feet)</b>											
1,001 to 5,000 .....	672	207	45	18	48	93	48	137	8	12	55
5,001 to 10,000 .....	516	198	36	17	40	83	35	56	6	9	39
10,001 to 25,000 .....	776	324	47	44	43	151	25	53	9	19	62
25,001 to 50,000 .....	673	262	57	50	55	121	13	34	7	16	58
50,001 to 100,000 .....	759	293	59	65	55	158	11	29	6	18	64
100,001 to 200,000 .....	934	374	64	80	72	195	8	24	Q	31	73
200,001 to 500,000 .....	725	280	55	54	67	162	14	9	8	19	58
Over 500,000 .....	766	265	68	56	69	181	13	12	Q	23	70
<b>Principal Building Activity</b>											
Education .....	820	389	79	83	57	113	8	16	4	32	39
Food Sales .....	251	36	12	7	4	46	11	119	2	2	11
Food Service .....	427	71	29	24	67	42	105	70	2	2	16
Health Care .....	594	223	44	42	95	105	11	8	4	10	51
Inpatient .....	475	175	35	38	92	76	11	4	2	7	34
Outpatient .....	119	48	9	4	3	28	Q	4	2	3	17
Lodging .....	510	113	25	14	160	124	16	12	Q	6	36
Retail (Other Than Mall).....	319	107	25	16	5	111	3	22	3	4	24
Office .....	1,134	400	109	63	24	281	4	35	32	74	110
Public Assembly .....	370	196	38	63	4	27	3	9	Q	Q	26
Public Order and Safety .....	126	54	10	10	15	18	1	3	1	2	12
Religious Worship .....	163	98	11	5	3	17	3	6	(*)	1	19
Service .....	312	145	16	24	4	63	Q	9	1	3	46
Warehouse and Storage .....	456	194	14	20	6	132	Q	36	2	5	48
Other .....	286	138	18	11	4	59	Q	10	Q	5	33
Vacant .....	54	37	2	1	(*)	4	Q	Q	Q	(*)	8
<b>Year Constructed</b>											
Before 1920 .....	302	180	7	11	17	34	17	Q	2	4	15
1920 to 1945 .....	620	315	25	30	42	89	20	26	3	8	62
1946 to 1959 .....	565	277	31	34	44	87	13	26	4	11	38
1960 to 1969 .....	737	336	45	50	64	113	12	40	6	18	52
1970 to 1979 .....	1,023	356	79	74	90	220	26	58	12	27	80
1980 to 1989 .....	1,034	315	95	66	86	236	26	66	15	37	92
1990 to 1999 .....	1,098	317	104	88	70	246	36	85	17	35	100
2000 to 2003 .....	441	106	45	32	35	116	18	38	4	9	38
<b>Census Region and Division</b>											
Northeast .....	1,271	634	48	67	84	206	34	58	12	30	98
New England .....	294	167	8	12	16	42	Q	19	2	6	16
Middle Atlantic .....	978	467	40	55	68	164	28	39	10	24	81
Midwest .....	1,690	830	62	103	101	287	35	89	15	35	133
East North Central .....	1,254	643	42	77	72	208	25	59	11	27	90
West North Central .....	436	187	20	25	29	79	10	29	4	9	43
South .....	1,948	473	251	153	166	449	70	154	18	55	159
South Atlantic .....	1,064	249	132	85	86	258	35	87	11	35	85
East South Central .....	309	107	23	22	29	63	7	24	2	5	26
West South Central .....	575	117	96	46	50	128	28	43	5	14	49
West .....	911	266	70	61	97	200	28	53	19	28	88
Mountain .....	381	149	26	23	36	78	5	18	Q	8	32
Pacific .....	530	117	44	38	61	122	24	35	Q	20	56

**Table E1. Major Fuel Consumption (Btu) by End Use for Non-Mall Buildings, 2003**

	Total Major Fuel Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	5,820	2,203	431	384	448	1,143	167	354	64	148	478
<b>Climate Zone: 30-Year Average</b>											
Under 2,000 CDD and --											
More than 7,000 HDD .....	990	517	24	60	61	157	18	59	8	18	68
5,500-7,000 HDD .....	1,761	853	66	98	116	309	42	88	16	39	132
4,000-5,499 HDD .....	1,134	431	70	69	87	230	32	61	18	31	104
Fewer than 4,000 HDD .....	1,213	302	119	94	120	275	48	93	14	33	115
2,000 CDD or More and --											
Fewer than 4,000 HDD .....	724	99	152	62	65	172	27	53	7	27	59
<b>Number of Floors</b>											
One .....	1,937	649	159	110	116	384	84	230	17	34	154
Two .....	1,311	516	91	98	81	254	32	70	18	32	120
Three .....	619	277	34	40	48	113	16	22	7	16	48
Four to Nine .....	1,336	571	95	99	130	240	24	25	13	41	100
Ten or More .....	617	191	52	38	73	152	12	8	Q	25	57
<b>Elevators and Escalators (more than one may apply)</b>											
Any Elevators .....	2,826	1,081	223	221	257	581	41	53	38	96	235
Number of Elevators											
One .....	732	341	48	61	37	134	7	20	7	22	54
Two to Five .....	1,157	438	86	89	115	234	17	22	19	43	96
Six or More .....	937	303	88	70	104	214	18	12	12	31	85
Any Escalators .....	282	53	35	30	Q	80	6	4	Q	11	31
<b>Number of Workers (main shift)</b>											
Fewer than 5 .....	817	396	39	28	39	119	18	92	3	5	77
5 to 9 .....	468	168	33	21	39	78	30	56	4	6	34
10 to 19 .....	594	223	40	31	53	103	39	52	5	9	40
20 to 49 .....	1,050	419	73	69	77	191	36	67	Q	21	83
50 to 99 .....	728	261	58	67	57	151	14	37	8	19	55
100 to 249 .....	838	310	70	68	65	188	11	27	9	25	64
250 or More .....	1,325	425	119	100	118	313	19	22	20	63	124
<b>Weekly Operating Hours</b>											
Fewer than 40 .....	228	130	17	7	7	22	5	12	1	2	25
40 to 48 .....	773	364	71	42	18	133	7	33	10	25	70
49 to 60 .....	1,179	529	85	71	36	229	20	50	15	34	111
61 to 84 .....	924	352	66	67	44	184	35	64	9	24	78
85 to 167 .....	889	280	55	77	50	167	55	119	5	22	57
Open Continuously .....	1,827	547	137	119	292	408	44	76	23	41	137
<b>Ownership and Occupancy</b>											
Nongovernment Owned.....	4,203	1,438	303	224	347	897	151	319	54	102	368
Owner Occupied .....	2,060	786	150	116	141	424	47	135	28	51	183
Nonowner Occupied .....	2,115	632	152	108	207	471	104	184	25	51	181
Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned .....	1,617	765	129	160	101	246	16	35	10	47	110
Federal .....	303	161	14	24	9	63	Q	3	2	5	21
State .....	513	271	27	53	31	62	3	9	3	20	33
Local .....	800	333	88	83	61	120	11	23	5	21	56
<b>Vacancy Status</b>											
Completely Vacant .....	37	28	Q	(*)	Q	3	Q	Q	Q	Q	5
Mostly Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant .....	1,086	432	89	68	61	240	17	30	13	42	95
Not At All Vacant .....	4,681	1,733	341	315	387	899	149	324	51	107	375

**Table E1. Major Fuel Consumption (Btu) by End Use for Non-Mall Buildings, 2003**

	Total Major Fuel Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	5,820	2,203	431	384	448	1,143	167	354	64	148	478
<b>Number of Establishments</b>											
One .....	4,167	1,562	289	272	362	790	139	290	42	87	334
2 to 5 .....	992	412	70	64	62	199	21	49	12	24	79
6 to 10 .....	216	93	16	14	7	43	Q	5	3	16	16
11 to 20 .....	152	50	16	12	Q	37	Q	Q	2	7	15
More than 20 .....	257	57	39	22	11	72	2	5	5	15	29
Currently Unoccupied .....	37	28	Q	(*)	Q	3	Q	Q	Q	Q	5
<b>Predominant Exterior Wall Material</b>											
Brick, Stone or Stucco .....	3,186	1,307	229	207	276	530	109	180	30	73	244
Concrete (Block or Poured) .....	974	339	78	62	81	202	26	72	Q	18	83
Concrete Panels .....	667	219	52	46	Q	185	10	22	10	28	58
Siding or Shingles .....	276	104	17	14	24	49	12	29	3	6	20
Metal Panels .....	463	151	28	35	12	120	Q	44	4	11	52
Window Glass .....	95	24	11	7	5	25	Q	2	2	6	10
Other .....	121	48	10	7	11	25	Q	4	1	4	8
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Predominant Roof Material</b>											
Built-Up .....	2,083	781	158	134	184	405	56	107	23	57	178
Shingles (Not Wood) .....	823	326	54	41	68	134	33	79	9	15	63
Metal Surfacing .....	630	211	49	48	23	150	17	47	5	13	68
Synthetic or Rubber .....	1,649	607	126	126	127	329	38	91	22	53	130
Slate or Tile .....	207	79	16	11	19	34	11	17	2	4	13
Wooden Materials .....	68	23	6	4	9	14	Q	4	1	1	5
Concrete .....	236	121	11	13	13	48	Q	5	1	3	14
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type .....	40	15	3	4	2	6	Q	2	(*)	Q	3
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>											
<b>Any Type of Renovation</b>											
Since 1980 .....	1,766	767	103	112	158	298	47	88	15	42	136
Addition or Annex .....	733	316	42	55	79	121	16	31	4	14	55
Reduction In Floorspace .....	117	46	5	9	14	22	Q	2	1	3	10
Cosmetic Improvements .....	1,317	557	79	84	114	230	38	70	12	33	99
Wall or Roof Replacement .....	777	341	47	53	67	140	16	27	7	22	57
Interior Wall											
Re-Configuration .....	911	399	57	61	80	162	17	32	8	24	71
HVAC Equipment Upgrade.....	1,156	470	73	81	117	206	29	45	11	32	92
Lighting Upgrade .....	1,085	485	62	75	92	184	24	49	10	28	76
Window Replacement .....	613	288	32	37	54	100	13	26	5	16	41
Plumbing System Upgrade .....	748	334	42	50	69	129	19	25	5	19	55
Insulation Upgrade .....	381	167	23	30	28	64	11	15	3	11	28
Other Renovation .....	50	22	Q	2	5	7	Q	2	(*)	1	4
No Renovations Since 1980.....	1,482	698	84	87	99	246	41	78	12	26	112
Building Newer than 1980 .....	2,573	738	245	185	191	599	79	188	36	80	231
<b>Energy Sources (more than one may apply)</b>											
Electricity .....	5,820	2,202	431	384	448	1,143	167	354	64	148	478
Natural Gas .....	4,492	1,731	301	295	399	842	160	239	43	108	373
Fuel Oil .....	1,760	657	128	121	195	359	33	43	24	51	148
District Heat .....	1,017	606	32	69	59	147	Q	12	5	29	49
District Chilled Water .....	538	308	16	49	34	68	Q	7	3	20	26
Propane .....	584	201	38	40	39	141	9	51	5	9	50
Other .....	139	48	Q	Q	11	30	2	6	2	4	11

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**Table E1. Major Fuel Consumption (Btu) by End Use for Non-Mall Buildings, 2003**

	Total Major Fuel Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	5,820	2,203	431	384	448	1,143	167	354	64	148	478
<b>Space-Heating Energy Sources<sup>a</sup></b> (more than one may apply)											
Electricity .....	2,354	617	238	155	216	571	72	164	36	70	215
Natural Gas .....	3,679	1,432	244	245	299	705	112	204	37	83	319
Fuel Oil .....	591	305	29	33	55	80	14	18	3	10	43
District Heat .....	994	599	30	67	59	140	Q	11	5	28	46
Propane .....	160	26	14	14	16	39	3	24	Q	4	18
Other .....	61	16	Q	Q	3	17	Q	4	(*)	1	6
<b>Primary Space-Heating Energy Source</b>											
Electricity .....	1,089	142	153	68	108	303	44	111	21	37	100
Natural Gas .....	3,280	1,286	216	219	262	620	98	179	34	75	291
Fuel Oil .....	294	190	7	13	17	29	10	13	1	4	11
District Heat .....	951	580	26	65	50	135	Q	11	4	27	43
Propane .....	71	2	7	9	1	18	Q	19	Q	Q	11
Other .....	19	3	1	2	Q	7	(*)	2	Q	Q	3
<b>Cooling Energy Sources<sup>b</sup></b> (more than one may apply)											
Electricity .....	5,020	1,745	420	326	399	1,032	158	335	61	126	418
Natural Gas .....	159	43	30	Q	16	26	2	3	1	3	19
District Chilled Water .....	538	308	16	49	34	68	Q	7	3	20	26
<b>Water-Heating Energy Sources</b> (more than one may apply)											
Electricity .....	2,145	727	205	142	87	487	46	157	33	66	196
Natural Gas .....	3,206	1,170	222	221	348	587	119	171	30	75	262
Fuel Oil .....	206	109	7	9	23	25	9	7	1	3	13
District Heat .....	563	293	26	43	52	88	Q	7	3	15	30
Propane .....	81	17	9	9	1	18	Q	14	Q	Q	8
<b>Cooking Energy Sources</b> (more than one may apply)											
Electricity .....	1,579	510	131	125	181	294	73	103	14	36	112
Natural Gas .....	2,074	647	157	152	279	367	155	122	16	37	140
Propane .....	114	26	12	10	10	24	2	18	Q	Q	8
<b>Energy End Uses (more than one may apply)</b>											
Buildings with Space Heating ....	5,705	2,203	411	376	440	1,113	160	335	63	146	458
Buildings with Cooling .....	5,464	1,982	431	369	428	1,095	162	341	63	147	447
Buildings with Water Heating ....	5,498	2,025	416	370	448	1,080	166	336	62	145	450
Buildings with Cooking .....	2,712	868	218	203	320	487	167	184	23	55	188
Buildings with Manufacturing ....	254	77	10	17	7	64	Q	10	2	6	56
Buildings with Electricity Generation .....	1,693	553	139	129	178	367	24	42	28	56	176
<b>Percent of Floorspace Heated</b>											
Not Heated .....	115	(*)	20	8	8	29	Q	19	1	2	20
1 to 50 .....	299	82	14	18	14	69	Q	39	Q	4	40
51 to 99 .....	746	264	56	49	61	152	29	54	6	16	60
100 .....	4,660	1,857	341	309	365	892	121	242	49	127	357
<b>Percent of Floorspace Cooled</b>											
Not Cooled .....	356	221	(*)	15	20	48	4	14	1	2	31
1 to 50 .....	1,026	503	25	56	44	195	20	64	5	12	102
51 to 99 .....	1,413	513	107	97	112	273	46	104	13	38	110
100 .....	3,026	965	300	215	272	627	97	173	45	96	235

**Table E1. Major Fuel Consumption (Btu) by End Use for Non-Mall Buildings, 2003**

	Total Major Fuel Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	5,820	2,203	431	384	448	1,143	167	354	64	148	478
<b>Percent Lit When Open</b>											
Zero .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	540	256	33	29	52	63	15	28	Q	6	50
51 to 99 .....	1,736	666	130	125	135	328	46	87	21	58	140
100 .....	3,490	1,245	267	230	260	747	104	236	35	85	281
Building Never Open/ Electricity Not Used .....	46	33	1	(*)	Q	4	Q	1	Q	Q	7
<b>Percent Lit When Closed</b>											
Zero .....	1,132	524	75	69	42	173	40	74	10	30	95
1 to 50 .....	2,626	1,057	203	181	107	487	76	180	29	72	233
51 to 100 .....	235	73	16	14	7	75	6	24	2	5	13
Building Never Closed/ Electricity Not Used .....	1,827	548	137	119	292	408	44	76	23	41	137
<b>Heating Equipment (more than one may apply)</b>											
Heat Pumps .....	805	188	95	53	93	201	20	46	12	25	72
Packaged Heat Pumps .....	523	102	64	33	61	141	13	33	Q	17	49
Split-System Heat Pumps .....	198	49	25	18	16	51	Q	11	2	5	18
Individual Room Heat Pumps ..	255	67	30	17	39	60	7	7	2	8	18
Furnaces .....	1,493	588	86	84	103	287	56	123	13	27	126
Individual Space Heaters .....	1,024	379	67	65	79	225	18	61	10	26	94
District Heat .....	986	594	30	66	58	139	Q	11	4	28	46
Boilers .....	2,244	906	150	168	226	405	50	59	24	56	200
Packaged Heating Units .....	1,729	512	163	119	142	383	64	134	24	47	138
Other .....	231	62	22	20	8	64	3	18	3	8	22
<b>Cooling Equipment (more than one may apply)</b>											
Residential-Type Central											
Air Conditioners .....	924	355	67	67	77	158	40	59	8	15	78
Heat Pumps .....	837	195	99	55	92	209	22	54	12	25	75
Packaged Heat Pumps .....	529	109	62	32	60	142	13	36	9	17	50
Split-System Heat Pumps .....	204	50	26	19	16	50	Q	13	2	5	19
Individual Room Heat Pumps ..	278	67	35	19	39	68	7	11	3	8	20
Individual Air Conditioners .....	1,080	474	69	62	119	196	19	44	7	18	71
District Chilled Water .....	538	308	16	49	34	68	Q	7	3	20	26
Central Chillers .....	1,531	482	152	140	148	338	22	27	24	50	148
Packaged Air Conditioning											
Units .....	2,862	992	235	179	218	595	103	205	30	72	232
Swamp Coolers .....	158	52	9	9	21	28	8	12	1	2	16
Other .....	142	49	13	10	16	28	2	Q	1	4	9
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>											
Heating .....	1,367	505	96	84	122	258	42	83	17	37	122
Cooling .....	1,949	743	138	120	177	363	58	110	23	55	162
<b>Water Heating Equipment</b>											
Centralized System .....	3,432	1,281	238	227	298	630	123	250	35	79	272
Distributed System .....	835	314	77	54	33	179	24	52	9	23	70
Combination of Centralized and Distributed System .....	1,231	430	100	88	117	271	20	34	19	43	108

**Table E1. Major Fuel Consumption (Btu) by End Use for Non-Mall Buildings, 2003**

	Total Major Fuel Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	5,820	2,203	431	384	448	1,143	167	354	64	148	478
<b>Lighting Equipment Types (more than one may apply)</b>											
Incandescent .....	3,916	1,439	287	257	357	803	125	193	44	105	306
Standard Fluorescent .....	5,644	2,130	421	378	434	1,103	159	344	63	147	464
Compact Fluorescent .....	3,208	1,139	250	238	310	652	92	139	40	88	261
High Intensity Discharge .....	2,141	813	152	170	156	472	38	82	22	61	175
Halogen .....	1,982	666	153	139	185	453	60	94	22	50	159
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Refrigeration Equipment (more than one may apply)</b>											
Any Refrigeration.....	5,213	1,880	392	350	430	1,030	166	354	59	137	415
Commercial Refrigeration .....	3,336	1,068	265	236	337	651	159	283	28	70	239
Walk-In Units .....	2,766	843	220	198	300	539	149	250	22	56	189
Cases or Cabinets .....	2,703	865	219	185	271	522	133	239	23	54	191
Residential-Type Units .....	3,466	1,354	265	236	288	681	70	161	34	98	278
Vending Machines .....	3,721	1,326	289	275	327	784	66	183	45	110	314
No Refrigeration .....	607	323	39	34	18	112	Q	(*)	5	11	63
<b>Office Equipment (more than one may apply)</b>											
Computers .....	5,376	2,022	411	370	409	1,077	141	299	63	148	434
With Flat Screen Monitors .....	2,966	1,071	243	223	234	614	61	112	46	109	253
Dedicated Servers .....	3,760	1,355	302	279	290	797	72	164	57	124	321
Laser Printers .....	3,009	1,149	227	197	243	569	80	182	38	76	248
Inkjet Printers .....	3,302	1,196	281	242	234	717	62	158	39	102	271
FAX Machines .....	5,092	1,885	392	352	390	1,036	140	277	62	142	414
Photocopiers .....	4,466	1,710	354	327	326	928	67	187	60	136	371
<b>Number of Computers</b>											
None .....	444	181	20	14	39	66	26	55	1	(*)	44
1 to 4 .....	1,015	388	60	45	75	166	68	133	5	5	70
5 to 9 .....	546	207	39	28	49	102	20	40	4	6	50
10 to 19 .....	515	191	40	33	34	108	13	40	5	9	43
20 to 49 .....	707	254	55	56	46	161	9	38	Q	16	59
50 to 99 .....	513	209	39	38	43	108	8	11	6	14	37
100 to 249 .....	714	292	59	61	53	142	7	16	7	25	52
250 or More .....	1,366	481	119	109	110	291	17	21	22	73	124
<b>Number of Dedicated Servers</b>											
None .....	2,060	847	129	105	158	346	95	191	7	25	158
1 to 4 .....	2,234	840	170	156	189	451	53	128	17	48	182
5 to 9 .....	405	118	41	40	21	100	Q	11	6	17	42
10 to 19 .....	432	182	33	35	26	83	3	12	5	23	30
20 to 49 .....	307	94	34	26	24	71	3	6	6	14	29
50 or More .....	382	122	24	23	Q	92	Q	7	22	21	38
<b>Number of Photocopiers</b>											
None .....	1,355	493	77	57	122	215	100	167	4	12	107
One .....	1,130	453	78	66	71	224	24	92	9	16	97
2 to 4 .....	1,334	522	102	104	100	270	17	59	19	34	106
5 to 9 .....	612	246	47	52	40	121	8	14	8	29	46
10 or More .....	1,389	489	127	105	115	312	17	21	25	56	122
<b>Energy-Related Space Functions (more than one may apply)</b>											
Commercial Food Preparation....	2,711	868	218	203	320	486	167	184	23	55	187
Activities with Large Amounts of Hot Water .....	2,465	853	179	174	327	463	111	99	18	50	192
Separate Computer Area .....	2,895	1,054	248	232	237	615	44	85	45	101	234



**Table E1. Major Fuel Consumption (Btu) by End Use for Non-Mall Buildings, 2003**

	Total Major Fuel Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	5,820	2,203	431	384	448	1,143	167	354	64	148	478
<b>HVAC Conservation Features (more than one may apply)</b>											
Variable Air-Volume System.....	2,380	857	206	176	190	498	48	71	35	85	213
Economizer Cycle .....	2,589	923	205	206	206	556	47	97	37	91	221
HVAC Maintenance .....	5,170	1,942	395	360	412	1,030	143	282	59	137	411
Energy Management and Control System (EMCS) .....	1,782	654	158	160	134	368	27	40	27	61	153
<b>Window and Interior Lighting Features (more than one may apply)</b>											
Multipaned Windows .....	3,929	1,501	269	263	330	774	110	222	46	98	316
Tinted Window Glass .....	3,098	1,122	256	221	228	663	71	135	41	95	264
Reflective Window Glass .....	927	302	85	71	84	211	18	33	11	29	82
External Overhangs or Awnings .....	1,737	553	129	121	167	339	78	140	25	47	138
Skylights or Atriums .....	1,307	481	94	96	124	273	31	35	20	33	119
Daylighting Sensors .....	377	112	31	30	43	79	9	12	Q	12	37
Specular Reflectors .....	2,829	1,071	219	207	210	596	58	113	34	81	240
Electronic Ballasts .....	4,746	1,783	365	336	366	937	115	262	56	132	393
Energy Management and Control System (EMCS) For Lighting .....	538	181	55	44	30	125	9	15	Q	19	50
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)</b>											
Heating .....	3,740	1,443	278	262	268	717	110	193	49	101	320
Cooling .....	3,844	1,430	304	275	275	755	122	198	45	111	330
Lighting .....	3,818	1,585	282	255	151	693	119	265	40	104	325
Office Equipment .....	1,465	668	112	97	57	258	33	81	13	26	120

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>.

\* Data in this table do not include enclosed malls and strip malls. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

<sup>a</sup> Totals in the "Electricity" and "Natural Gas" rows have been revised and values do not match published values in consumption Table C1 ([http://www.eia.doe.gov/emeu/cbecs/cbecs2003/detailed\\_tables\\_2003/detailed\\_tables\\_2003.html](http://www.eia.doe.gov/emeu/cbecs/cbecs2003/detailed_tables_2003/detailed_tables_2003.html)).

<sup>b</sup> The total in the "Electricity" row has been revised and does not match published value in consumption Table C1.

(\*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

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

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

**Table E2. Major Fuel Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003**

	Major Fuel Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	89.8	34.0	6.7	5.9	6.9	17.6	2.6	5.5	1.0	1.0	7.4
<b>Building Floorspace (Square Feet)</b>											
1,001 to 5,000 .....	98.9	30.5	6.7	2.7	7.1	13.7	7.1	20.2	1.2	1.0	8.1
5,001 to 10,000 .....	78.3	30.0	5.4	2.6	6.1	12.5	5.2	8.4	0.8	1.0	5.9
10,001 to 25,000 .....	67.3	28.1	4.1	3.9	3.7	13.1	2.1	4.6	0.8	1.0	5.3
25,001 to 50,000 .....	77.6	30.2	6.6	5.8	6.3	13.9	1.6	3.9	0.8	1.0	6.7
50,001 to 100,000 .....	83.8	32.4	6.5	7.2	6.0	17.4	1.2	3.3	0.7	1.0	7.1
100,001 to 200,000 .....	103.0	41.3	7.1	8.8	7.9	21.5	0.9	2.7	Q	1.0	8.0
200,001 to 500,000 .....	101.0	39.0	7.6	7.5	9.4	22.6	1.9	1.2	1.1	1.0	8.1
Over 500,000 .....	129.7	44.9	11.5	9.5	11.7	30.6	2.2	2.1	Q	1.0	11.9
<b>Principal Building Activity</b>											
Education .....	83.1	39.4	8.0	8.4	5.8	11.5	0.8	1.6	0.4	1.0	4.0
Food Sales .....	199.7	28.9	9.8	5.9	2.9	36.7	8.6	94.8	1.6	1.0	9.1
Food Service .....	258.3	43.1	17.4	14.8	40.4	25.4	63.5	42.1	1.0	1.0	9.5
Health Care .....	187.7	70.4	14.1	13.3	30.2	33.1	3.5	2.6	1.2	1.0	16.1
Inpatient .....	249.2	91.8	18.6	20.0	48.4	40.1	5.6	2.0	1.1	1.0	18.1
Outpatient .....	94.6	38.1	7.2	3.3	2.5	22.6	Q	3.5	1.3	1.0	13.2
Lodging .....	100.0	22.2	4.9	2.7	31.4	24.3	3.2	2.3	Q	1.0	7.0
Retail (Other Than Mall).....	73.9	24.8	5.9	3.7	1.1	25.7	0.6	5.0	0.6	1.0	5.6
Office .....	92.9	32.8	8.9	5.2	2.0	23.1	0.3	2.9	2.6	1.0	9.0
Public Assembly .....	93.9	49.7	9.6	15.9	1.0	7.0	0.8	2.2	Q	1.0	6.5
Public Order and Safety .....	115.8	49.9	8.9	9.5	14.0	16.5	1.3	2.9	0.6	1.0	10.6
Religious Worship .....	43.5	26.2	2.9	1.4	0.8	4.4	0.8	1.7	0.1	1.0	4.9
Service .....	77.0	35.9	3.8	6.0	1.0	15.6	Q	2.1	0.3	1.0	11.4
Warehouse and Storage .....	45.2	19.3	1.3	2.0	0.6	13.1	Q	3.5	0.2	1.0	4.8
Other .....	164.4	79.4	10.5	6.1	2.1	34.1	Q	6.0	Q	1.0	18.9
Vacant .....	20.9	14.4	0.6	0.4	0.1	1.7	Q	Q	Q	1.0	Q
<b>Year Constructed</b>											
Before 1920 .....	80.2	47.8	1.8	2.9	4.4	9.1	4.4	4.5	0.5	1.0	3.9
1920 to 1945 .....	90.3	45.9	3.7	4.3	6.2	12.9	2.9	3.7	0.4	1.0	9.0
1946 to 1959 .....	80.3	39.4	4.3	4.8	6.3	12.4	1.8	3.6	0.6	1.0	5.5
1960 to 1969 .....	90.9	41.5	5.5	6.1	7.9	14.0	1.5	4.9	0.8	1.0	6.4
1970 to 1979 .....	95.0	33.0	7.4	6.9	8.3	20.4	2.4	5.4	1.2	1.0	7.4
1980 to 1989 .....	100.1	30.5	9.2	6.4	8.4	22.9	2.5	6.4	1.5	1.0	8.9
1990 to 1999 .....	88.8	25.6	8.4	7.1	5.7	19.9	2.9	6.9	1.4	1.0	8.1
2000 to 2003 .....	79.7	19.2	8.2	5.7	6.3	21.0	3.2	6.8	0.7	1.0	6.9
<b>Census Region and Division</b>											
Northeast .....	98.5	49.1	3.7	5.2	6.5	15.9	2.6	4.5	0.9	1.0	7.6
New England .....	99.0	56.2	2.7	4.0	5.3	14.1	1.8	6.5	0.7	1.0	5.5
Middle Atlantic .....	98.3	47.0	4.0	5.5	6.9	16.5	2.9	3.9	1.0	1.0	8.2
Midwest .....	98.9	48.6	3.6	6.0	5.9	16.8	2.0	5.2	0.9	1.0	7.8
East North Central .....	108.1	55.4	3.6	6.7	6.2	18.0	2.1	5.1	1.0	1.0	7.7
West North Central .....	79.5	34.2	3.7	4.6	5.3	14.4	1.8	5.4	0.6	1.0	7.9
South .....	82.9	20.1	10.7	6.5	7.1	19.1	3.0	6.6	0.8	1.0	6.8
South Atlantic .....	86.8	20.3	10.7	6.9	7.0	21.1	2.9	7.1	0.9	1.0	6.9
East South Central .....	91.1	31.4	6.9	6.6	8.7	18.6	2.2	7.1	0.6	1.0	7.6
West South Central .....	73.4	14.9	12.3	5.9	6.4	16.3	3.5	5.5	0.6	1.0	6.2
West .....	80.6	23.5	6.2	5.4	8.6	17.7	2.5	4.7	1.7	1.0	7.8
Mountain .....	103.8	40.7	7.0	6.3	9.9	21.3	1.3	4.9	Q	1.0	8.6
Pacific .....	69.4	15.3	5.7	5.0	8.0	16.0	3.1	4.6	Q	1.0	7.4

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**Table E2. Major Fuel Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003**

	Major Fuel Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	89.8	34.0	6.7	5.9	6.9	17.6	2.6	5.5	1.0	1.0	7.4
<b>Climate Zone: 30-Year Average</b>											
Under 2,000 CDD and --											
More than 7,000 HDD .....	93.2	48.7	2.2	5.7	5.7	14.8	1.7	5.5	0.8	1.0	6.4
5,500-7,000 HDD .....	101.6	49.2	3.8	5.7	6.7	17.8	2.4	5.1	0.9	1.0	7.6
4,000-5,499 HDD .....	98.5	37.5	6.1	6.0	7.5	20.0	2.8	5.3	1.6	1.0	9.0
Fewer than 4,000 HDD .....	77.0	19.2	7.6	6.0	7.6	17.5	3.0	5.9	0.9	1.0	7.3
2,000 CDD or More and --											
Fewer than 4,000 HDD .....	75.5	10.3	15.9	6.5	6.8	17.9	2.8	5.5	0.8	1.0	6.2
<b>Number of Floors</b>											
One .....	74.6	25.0	6.1	4.2	4.5	14.8	3.2	8.9	0.6	1.0	5.9
Two .....	80.6	31.7	5.6	6.0	5.0	15.6	2.0	4.3	1.1	1.0	7.4
Three .....	82.6	36.9	4.5	5.3	6.4	15.0	2.1	2.9	1.0	1.0	6.4
Four to Nine .....	132.5	56.6	9.4	9.8	12.8	23.8	2.3	2.5	1.2	1.0	9.9
Ten or More .....	124.6	38.6	10.6	7.6	14.9	30.7	2.3	1.5	Q	1.0	11.5
<b>Elevators and Escalators (more than one may apply)</b>											
Any Elevators .....	114.8	43.9	9.0	9.0	10.4	23.6	1.7	2.2	1.6	1.0	9.6
Number of Elevators											
One .....	89.0	41.4	5.9	7.4	4.5	16.3	0.8	2.5	0.9	1.0	6.6
Two to Five .....	114.3	43.2	8.5	8.8	11.4	23.1	1.7	2.1	1.8	1.0	9.5
Six or More .....	149.5	48.3	14.1	11.2	16.6	34.1	2.8	1.9	2.0	1.0	13.5
Any Escalators .....	120.0	22.7	14.9	12.7	Q	33.9	2.5	1.8	Q	1.0	13.3
<b>Number of Workers (main shift)</b>											
Fewer than 5 .....	52.8	25.6	2.5	1.8	2.5	7.7	1.2	6.0	0.2	1.0	5.0
5 to 9 .....	76.0	27.3	5.3	3.5	6.3	12.6	4.8	9.1	0.7	1.0	5.5
10 to 19 .....	76.2	28.6	5.1	3.9	6.8	13.2	5.0	6.7	0.6	1.0	5.1
20 to 49 .....	95.6	38.1	6.6	6.3	7.0	17.4	3.2	6.1	Q	1.0	7.6
50 to 99 .....	91.7	32.9	7.3	8.4	7.1	19.1	1.8	4.7	1.0	1.0	7.0
100 to 249 .....	121.9	45.1	10.2	9.8	9.4	27.3	1.7	4.0	1.3	1.0	9.4
250 or More .....	139.0	44.6	12.5	10.5	12.4	32.9	2.0	2.3	2.1	1.0	13.0
<b>Weekly Operating Hours</b>											
Fewer than 40 .....	33.2	18.9	2.5	1.0	1.1	3.2	0.7	1.7	0.1	1.0	3.6
40 to 48 .....	66.5	31.3	6.1	3.6	1.6	11.4	0.6	2.8	0.9	1.0	6.1
49 to 60 .....	75.0	33.6	5.4	4.5	2.3	14.5	1.3	3.2	1.0	1.0	7.1
61 to 84 .....	89.4	34.1	6.4	6.5	4.2	17.8	3.4	6.2	0.9	1.0	7.5
85 to 167 .....	125.4	39.5	7.8	10.9	7.1	23.5	7.8	16.8	0.7	1.0	8.1
Open Continuously .....	138.9	41.6	10.4	9.1	22.2	31.1	3.4	5.8	1.8	1.0	10.4
<b>Ownership and Occupancy</b>											
Nongovernment Owned.....	85.1	29.1	6.1	4.5	7.0	18.2	3.1	6.5	1.1	1.0	7.5
Owner Occupied .....	87.3	33.3	6.3	4.9	6.0	18.0	2.0	5.7	1.2	1.0	7.7
Nonowner Occupied .....	88.4	26.4	6.4	4.5	8.6	19.7	4.3	7.7	1.1	1.0	7.6
Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned .....	105.3	49.8	8.4	10.4	6.5	16.0	1.0	2.3	0.6	1.0	7.2
Federal .....	155.0	82.1	6.9	12.2	4.6	32.5	Q	1.6	0.8	1.0	10.6
State .....	134.8	71.3	7.1	14.0	8.1	16.2	0.8	2.5	0.8	1.0	8.8
Local .....	83.4	34.6	9.2	8.7	6.3	12.5	1.1	2.4	0.5	1.0	5.8
<b>Vacancy Status</b>											
Completely Vacant .....	17.2	12.8	Q	0.1	(*)	1.2	Q	Q	Q	1.0	Q
Mostly Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant .....	87.7	34.9	7.2	5.5	4.9	19.3	1.4	2.4	1.0	1.0	7.7
Not At All Vacant .....	93.9	34.8	6.8	6.3	7.8	18.0	3.0	6.5	1.0	1.0	7.5

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**Table E2. Major Fuel Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003**

	Major Fuel Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	89.8	34.0	6.7	5.9	6.9	17.6	2.6	5.5	1.0	1.0	7.4
<b>Number of Establishments</b>											
One .....	92.3	34.6	6.4	6.0	8.0	17.5	3.1	6.4	0.9	1.0	7.4
2 to 5 .....	90.6	37.6	6.4	5.8	5.7	18.1	1.9	4.5	1.1	1.0	7.2
6 to 10 .....	110.1	47.5	8.2	7.1	3.6	22.1	Q	2.4	1.4	1.0	8.1
11 to 20 .....	77.6	25.9	8.2	6.3	2.9	19.1	Q	Q	1.0	1.0	7.7
More than 20 .....	98.5	22.0	15.0	8.4	4.2	27.4	0.9	1.8	2.0	1.0	11.0
Currently Unoccupied .....	17.2	12.8	Q	0.1	(*)	1.2	Q	Q	Q	1.0	Q
<b>Predominant Exterior Wall Material</b>											
Brick, Stone or Stucco .....	97.1	39.8	7.0	6.3	8.4	16.1	3.3	5.5	0.9	1.0	7.4
Concrete (Block or Poured) .....	89.9	31.3	7.2	5.8	7.5	18.6	2.4	6.7	Q	1.0	7.7
Concrete Panels .....	101.7	33.3	8.0	7.1	5.5	28.3	1.5	3.3	1.6	1.0	8.8
Siding or Shingles .....	67.1	25.2	4.1	3.3	5.8	11.9	2.8	7.0	0.8	1.0	4.9
Metal Panels .....	58.5	19.0	3.5	4.4	1.5	15.2	Q	5.6	0.5	1.0	6.6
Window Glass .....	92.3	23.7	10.4	7.2	4.9	24.7	Q	2.0	1.9	1.0	10.0
Other .....	108.7	43.1	8.7	5.9	10.1	22.8	2.1	3.7	1.3	1.0	7.2
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Predominant Roof Material</b>											
Built-Up .....	98.4	36.9	7.5	6.3	8.7	19.1	2.6	5.1	1.1	1.0	8.4
Shingles (Not Wood) .....	80.7	32.0	5.3	4.0	6.7	13.2	3.2	7.7	0.9	1.0	6.2
Metal Surfacing .....	52.7	17.6	4.1	4.0	1.9	12.6	1.5	3.9	0.4	1.0	5.7
Synthetic or Rubber .....	112.0	41.2	8.6	8.6	8.6	22.3	2.6	6.2	1.5	1.0	8.8
Slate or Tile .....	84.2	32.3	6.6	4.4	7.7	13.9	Q	6.8	0.8	1.0	5.4
Wooden Materials .....	77.0	26.3	6.3	4.4	9.8	16.0	Q	4.7	0.7	1.0	5.2
Concrete .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type .....	69.9	27.0	4.9	6.6	4.3	10.8	Q	Q	0.7	1.0	Q
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>											
<b>Any Type of Renovation</b>											
Since 1980 .....	99.0	43.0	5.8	6.3	8.9	16.7	2.6	4.9	0.9	1.0	7.6
Addition or Annex .....	111.9	48.3	6.5	8.4	12.0	18.5	2.5	4.7	0.6	1.0	8.4
Reduction In Floorspace .....	115.2	45.5	5.4	8.9	14.3	22.0	2.5	2.3	0.9	1.0	10.3
Cosmetic Improvements .....	100.4	42.4	6.0	6.4	8.7	17.6	2.9	5.3	0.9	1.0	7.5
Wall or Roof Replacement .....	96.3	42.3	5.9	6.6	8.3	17.3	1.9	3.4	0.8	1.0	7.0
<b>Interior Wall</b>											
HVAC Equipment .....	107.0	46.8	6.7	7.2	9.4	19.0	2.0	3.8	0.9	1.0	8.4
HVAC Equipment Upgrade .....	107.4	43.6	6.7	7.5	10.9	19.1	2.7	4.2	1.1	1.0	8.6
Lighting Upgrade .....	105.6	47.2	6.1	7.3	9.0	17.9	2.3	4.7	1.0	1.0	7.4
Window Replacement .....	96.5	45.4	5.1	5.9	8.6	15.7	2.0	4.0	0.7	1.0	6.5
Plumbing System Upgrade .....	104.7	46.8	5.9	7.0	9.7	18.1	2.7	3.5	0.7	1.0	7.7
Insulation Upgrade .....	94.8	41.6	5.7	7.5	6.9	16.1	2.7	3.8	0.8	1.0	7.1
Other Renovation .....	94.9	42.8	Q	4.3	Q	13.8	Q	3.4	0.3	1.0	Q
No Renovations Since 1980 .....	79.2	37.3	4.5	4.6	5.3	13.1	2.2	4.2	0.7	1.0	6.0
Building Newer than 1980 .....	91.1	26.1	8.7	6.6	6.8	21.2	2.8	6.7	1.3	1.0	8.2
<b>Energy Sources (more than one may apply)</b>											
Electricity .....	91.9	34.8	6.8	6.1	7.1	18.1	2.6	5.6	1.0	1.0	7.6
Natural Gas .....	103.3	39.8	6.9	6.8	9.2	19.4	3.7	5.5	1.0	1.0	8.6
Fuel Oil .....	116.1	43.3	8.5	8.0	12.9	23.7	2.2	2.8	1.6	1.0	9.8
District Heat .....	186.8	111.3	5.9	12.8	10.9	26.9	Q	2.2	0.8	1.0	9.0
District Chilled Water .....	188.7	107.9	5.6	17.2	12.0	23.9	Q	2.6	1.0	1.0	9.1
Propane .....	82.6	28.5	5.4	5.7	5.6	19.9	1.3	7.2	0.7	1.0	7.1
Other .....	99.2	34.4	Q	10.0	7.8	21.6	1.3	4.6	1.8	1.0	8.2

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**Table E2. Major Fuel Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003**

	Major Fuel Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	89.8	34.0	6.7	5.9	6.9	17.6	2.6	5.5	1.0	1.0	7.4
<b>Space-Heating Energy Sources<sup>a</sup></b> (more than one may apply)											
Electricity .....	82.5	21.6	8.3	5.4	7.6	20.0	2.5	5.7	1.3	1.0	7.5
Natural Gas .....	99.6	38.7	6.6	6.6	8.1	19.1	3.0	5.5	1.0	1.0	8.6
Fuel Oil .....	98.6	50.9	4.8	5.6	9.3	13.4	2.3	2.9	0.5	1.0	7.2
District Heat .....	191.2	115.2	5.9	13.0	11.3	26.9	Q	2.1	0.9	1.0	8.9
Propane .....	49.9	8.1	4.5	4.5	4.9	12.1	0.9	7.5	Q	1.0	5.6
Other .....	72.6	19.0	Q	Q	3.3	20.1	Q	4.3	0.6	1.0	7.7
<b>Primary Space-Heating Energy Source</b>											
Electricity .....	68.1	8.9	9.6	4.3	6.8	19.0	2.8	6.9	1.3	1.0	6.2
Natural Gas .....	99.5	39.0	6.6	6.6	8.0	18.8	3.0	5.4	1.0	1.0	8.8
Fuel Oil .....	77.1	49.8	1.8	3.4	4.5	7.5	2.5	3.3	0.3	1.0	2.8
District Heat .....	193.8	118.3	5.3	13.3	10.3	27.6	Q	2.2	0.9	1.0	8.8
Propane .....	36.6	0.9	3.8	4.4	0.5	9.3	Q	9.8	Q	1.0	5.5
Other .....	50.6	7.5	2.7	4.7	Q	19.4	0.7	5.8	0.5	1.0	Q
<b>Cooling Energy Sources<sup>b</sup></b> (more than one may apply)											
Electricity .....	92.5	32.1	7.7	6.0	7.3	19.0	2.9	6.2	1.1	1.0	7.7
Natural Gas .....	156.3	42.3	29.6	Q	16.1	25.9	2.4	3.1	0.8	1.0	18.4
District Chilled Water .....	188.7	107.9	5.6	17.2	12.0	23.9	Q	2.6	1.0	1.0	9.1
<b>Water-Heating Energy Sources</b> (more than one may apply)											
Electricity .....	78.0	26.4	7.4	5.2	3.2	17.7	1.7	5.7	1.2	1.0	7.1
Natural Gas .....	111.2	40.6	7.7	7.7	12.1	20.4	4.1	6.0	1.0	1.0	9.1
Fuel Oil .....	109.7	57.8	3.9	4.9	12.3	13.2	4.6	3.8	0.7	1.0	6.8
District Heat .....	182.3	94.9	8.3	13.9	16.9	28.4	Q	2.2	0.9	1.0	9.6
Propane .....	56.7	11.9	6.1	6.1	0.8	12.6	Q	10.2	Q	1.0	5.7
<b>Cooking Energy Sources</b> (more than one may apply)											
Electricity .....	120.0	38.8	9.9	9.5	13.7	22.3	5.5	7.8	1.1	1.0	8.5
Natural Gas .....	134.3	41.9	10.2	9.9	18.1	23.8	10.0	7.9	1.0	1.0	9.1
Propane .....	78.3	17.6	7.9	7.1	6.9	16.5	1.4	12.4	Q	1.0	5.5
<b>Energy End Uses (more than one may apply)</b>											
Buildings with Space Heating ....	95.0	36.7	6.8	6.3	7.3	18.5	2.7	5.6	1.0	1.0	7.6
Buildings with Cooling .....	96.0	34.8	7.6	6.5	7.5	19.2	2.9	6.0	1.1	1.0	7.9
Buildings with Water Heating .....	97.4	35.9	7.4	6.5	7.9	19.1	2.9	6.0	1.1	1.0	8.0
Buildings with Cooking .....	122.0	39.0	9.8	9.1	14.4	21.9	7.5	8.3	1.0	1.0	8.5
Buildings with Manufacturing .....	81.1	24.5	3.1	5.4	2.3	20.5	Q	3.2	0.6	1.0	18.0
Buildings with Electricity Generation .....	132.1	43.1	10.8	10.1	13.9	28.6	1.9	3.3	2.2	1.0	13.7
<b>Percent of Floorspace Heated</b>											
Not Heated .....	24.2	(*)	4.2	1.6	1.8	6.2	Q	4.0	0.2	1.0	4.3
1 to 50 .....	43.6	12.0	2.0	2.7	2.0	10.1	Q	5.6	Q	1.0	5.8
51 to 99 .....	92.1	32.5	6.9	6.0	7.5	18.7	3.6	6.7	0.8	1.0	7.4
100 .....	103.4	41.2	7.6	6.9	8.1	19.8	2.7	5.4	1.1	1.0	7.9

**Table E2. Major Fuel Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003**

	Major Fuel Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	89.8	34.0	6.7	5.9	6.9	17.6	2.6	5.5	1.0	1.0	7.4
<b>Percent of Floorspace Cooled</b>											
Not Cooled .....	45.4	28.2	(*)	2.0	2.6	6.1	0.6	1.7	0.1	1.0	4.0
1 to 50 .....	61.8	30.3	1.5	3.4	2.7	11.8	1.2	3.8	0.3	1.0	6.1
51 to 99 .....	106.9	38.8	8.1	7.4	8.5	20.7	3.5	7.9	1.0	1.0	8.3
100 .....	111.5	35.6	11.0	7.9	10.0	23.1	3.6	6.4	1.7	1.0	8.7
<b>Percent Lit When Open</b>											
Zero .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	52.9	25.1	3.2	2.8	5.1	6.2	1.5	2.8	Q	1.0	4.9
51 to 99 .....	94.9	36.4	7.1	6.8	7.4	18.0	2.5	4.8	1.1	1.0	7.6
100 .....	106.4	38.0	8.1	7.0	7.9	22.8	3.2	7.2	1.1	1.0	8.6
Building Never Open/ Electricity Not Used .....	14.4	10.3	0.4	0.1	0.1	1.1	Q	0.2	Q	1.0	Q
<b>Percent Lit When Closed</b>											
Zero .....	65.1	30.2	4.3	4.0	2.4	10.0	2.3	4.2	0.5	1.0	5.5
1 to 50 .....	84.9	34.2	6.6	5.8	3.4	15.7	2.5	5.8	1.0	1.0	7.5
51 to 100 .....	112.3	35.0	7.8	6.8	3.2	35.6	3.0	11.5	0.8	1.0	6.4
Building Never Closed/ Electricity Not Used .....	127.2	38.2	9.5	8.3	20.4	28.5	3.1	5.3	1.6	1.0	9.5
<b>Heating Equipment (more than one may apply)</b>											
Heat Pumps .....	91.3	21.3	10.8	6.0	10.5	22.8	2.3	5.2	1.3	1.0	8.1
Packaged Heat Pumps .....	96.0	18.8	11.7	6.1	11.3	25.9	2.4	6.0	1.6	1.0	9.0
Split-System Heat Pumps .....	76.8	19.0	9.8	7.0	6.2	19.6	Q	4.3	0.8	1.0	6.9
Individual Room Heat Pumps ..	94.7	25.0	11.1	6.2	14.5	22.3	2.6	2.7	0.8	1.0	6.6
Furnaces .....	76.1	30.0	4.4	4.3	5.2	14.6	2.9	6.3	0.7	1.0	6.4
Individual Space Heaters .....	81.6	30.2	5.3	5.1	6.3	18.0	1.5	4.9	0.8	1.0	7.5
District Heat .....	190.8	115.1	5.8	12.8	11.2	26.9	Q	2.1	0.9	1.0	8.9
Boilers .....	109.9	44.4	7.3	8.2	11.1	19.9	2.5	2.9	1.2	1.0	9.8
Packaged Heating Units .....	95.9	28.4	9.1	6.6	7.9	21.3	3.6	7.4	1.4	1.0	7.7
Other .....	70.7	19.0	6.8	6.1	2.5	19.7	0.8	5.6	0.8	1.0	6.9
<b>Cooling Equipment (more than one may apply)</b>											
Residential-Type Central Air Conditioners .....	83.7	32.1	6.1	6.1	7.0	14.3	3.7	5.3	0.7	1.0	7.0
Heat Pumps .....	92.6	21.5	11.0	6.0	10.1	23.1	2.4	6.0	1.3	1.0	8.3
Packaged Heat Pumps .....	97.4	20.1	11.4	5.8	11.1	26.2	2.4	6.6	1.6	1.0	9.2
Split-System Heat Pumps .....	78.4	19.1	10.1	7.2	6.1	19.2	Q	5.0	0.8	1.0	7.1
Individual Room Heat Pumps ..	94.4	22.7	11.8	6.6	13.3	23.3	2.4	3.7	0.9	1.0	7.0
Individual Air Conditioners .....	86.0	37.8	5.5	5.0	9.5	15.6	1.5	3.5	0.5	1.0	5.7
District Chilled Water .....	188.7	107.9	5.6	17.2	12.0	23.9	Q	2.6	1.0	1.0	9.1
Central Chillers .....	131.6	41.4	13.0	12.0	12.7	29.1	1.9	2.3	2.0	1.0	12.7
Packaged Air Conditioning Units .....	95.5	33.1	7.9	6.0	7.3	19.9	3.5	6.8	1.0	1.0	7.7
Swamp Coolers .....	101.1	33.2	5.5	5.8	13.4	18.1	5.0	7.7	0.5	1.0	10.5
Other .....	115.1	39.8	10.3	8.4	13.4	23.0	1.7	Q	1.1	1.0	7.5
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>											
Heating .....	83.4	30.8	5.9	5.2	7.5	15.7	2.6	5.1	1.0	1.0	7.5
Cooling .....	92.8	35.4	6.6	5.7	8.4	17.3	2.8	5.2	1.1	1.0	7.7

**Table E2. Major Fuel Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003**

	Major Fuel Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	89.8	34.0	6.7	5.9	6.9	17.6	2.6	5.5	1.0	1.0	7.4
<b>Water Heating Equipment</b>											
Centralized System .....	99.0	36.9	6.9	6.6	8.6	18.2	3.5	7.2	1.0	1.0	7.8
Distributed System .....	72.4	27.2	6.7	4.7	2.9	15.5	2.1	4.5	0.8	1.0	6.1
Combination of Centralized and Distributed System .....	119.9	41.9	9.7	8.6	11.4	26.4	2.0	3.3	1.8	1.0	10.5
<b>Lighting Equipment Types (more than one may apply)</b>											
Incandescent .....	101.6	37.4	7.4	6.7	9.3	20.9	3.2	5.0	1.2	1.0	7.9
Standard Fluorescent .....	94.6	35.7	7.1	6.3	7.3	18.5	2.7	5.8	1.1	1.0	7.8
Compact Fluorescent .....	116.4	41.3	9.1	8.6	11.2	23.6	3.3	5.0	1.5	1.0	9.4
High Intensity Discharge .....	103.7	39.4	7.4	8.2	7.6	22.9	1.8	4.0	1.1	1.0	8.5
Halogen .....	111.9	37.6	8.6	7.8	10.5	25.6	3.4	5.3	1.2	1.0	9.0
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Refrigeration Equipment (more than one may apply)</b>											
Any Refrigeration.....	98.4	35.5	7.4	6.6	8.1	19.5	3.1	6.7	1.1	1.0	7.8
Commercial Refrigeration .....	124.6	39.9	9.9	8.8	12.6	24.3	5.9	10.6	1.0	1.0	8.9
Walk-In Units .....	136.6	41.6	10.9	9.8	14.8	26.6	7.4	12.3	1.1	1.0	9.3
Cases or Cabinets .....	132.3	42.3	10.7	9.1	13.3	25.6	6.5	11.7	1.1	1.0	9.4
Residential-Type Units .....	89.1	34.8	6.8	6.1	7.4	17.5	1.8	4.1	0.9	1.0	7.2
Vending Machines .....	105.3	37.5	8.2	7.8	9.2	22.2	1.9	5.2	1.3	1.0	8.9
No Refrigeration .....	51.4	27.3	3.3	2.9	1.6	9.5	Q	(*)	0.4	1.0	5.3
<b>Office Equipment (more than one may apply)</b>											
Computers .....	96.6	36.4	7.4	6.6	7.4	19.4	2.5	5.4	1.1	1.0	7.8
With Flat Screen Monitors .....	112.3	40.6	9.2	8.5	8.9	23.2	2.3	4.2	1.7	1.0	9.6
Dedicated Servers .....	103.5	37.3	8.3	7.7	8.0	21.9	2.0	4.5	1.6	1.0	8.8
Laser Printers .....	91.2	34.8	6.9	6.0	7.4	17.2	2.4	5.5	1.2	1.0	7.5
Inkjet Printers .....	102.5	37.1	8.7	7.5	7.3	22.3	1.9	4.9	1.2	1.0	8.4
FAX Machines .....	97.2	36.0	7.5	6.7	7.5	19.8	2.7	5.3	1.2	1.0	7.9
Photocopiers .....	96.5	37.0	7.6	7.1	7.1	20.1	1.4	4.0	1.3	1.0	8.0
<b>Number of Computers</b>											
None .....	48.5	19.7	2.2	1.6	4.2	7.2	2.8	6.0	0.1	.	N
1 to 4 .....	81.9	31.3	4.9	3.6	6.0	13.4	5.5	10.7	0.4	1.0	5.6
5 to 9 .....	76.0	28.8	5.4	3.8	6.8	14.1	2.8	5.6	0.6	1.0	7.0
10 to 19 .....	77.9	28.9	6.0	5.0	5.2	16.3	1.9	6.0	0.7	1.0	6.4
20 to 49 .....	95.3	34.3	7.4	7.6	6.2	21.7	1.2	5.1	Q	1.0	7.9
50 to 99 .....	95.4	38.8	7.2	7.1	8.0	20.1	1.5	2.1	1.1	1.0	6.8
100 to 249 .....	106.7	43.7	8.8	9.2	7.9	21.2	1.0	2.4	1.0	1.0	7.8
250 or More .....	137.1	48.2	12.0	11.0	11.0	29.2	1.7	2.1	2.2	1.0	12.4
<b>Number of Dedicated Servers</b>											
None .....	72.4	29.8	4.5	3.7	5.6	12.2	3.3	6.7	0.3	1.0	5.5
1 to 4 .....	92.6	34.8	7.0	6.5	7.8	18.7	2.2	5.3	0.7	1.0	7.5
5 to 9 .....	104.9	30.5	10.7	10.3	5.5	25.8	Q	2.9	1.6	1.0	10.9
10 to 19 .....	142.7	60.0	10.8	11.7	8.7	27.5	1.0	3.9	1.6	1.0	10.0
20 to 49 .....	118.9	36.4	13.3	9.9	9.2	27.3	1.3	2.2	2.4	1.0	11.1
50 or More .....	139.0	44.3	8.8	8.3	Q	33.6	Q	2.4	7.9	1.0	13.7
<b>Number of Photocopiers</b>											
None .....	73.1	26.6	4.2	3.1	6.6	11.6	5.4	9.0	0.2	1.0	5.8
One .....	73.0	29.3	5.0	4.3	4.6	14.5	1.6	6.0	0.6	1.0	6.3
2 to 4 .....	88.5	34.6	6.8	6.9	6.6	17.9	1.1	3.9	1.3	1.0	7.0
5 to 9 .....	110.9	44.5	8.5	9.4	7.3	22.0	1.5	2.6	1.4	1.0	8.4
10 or More .....	136.4	48.0	12.5	10.3	11.3	30.6	1.7	2.1	2.4	1.0	12.0

**Table E2. Major Fuel Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003**

	Major Fuel Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	89.8	34.0	6.7	5.9	6.9	17.6	2.6	5.5	1.0	1.0	7.4
<b>Energy-Related Space Functions (more than one may apply)</b>											
Commercial Food Preparation....	122.0	39.1	9.8	9.1	14.4	21.9	7.5	8.3	1.0	1.0	8.4
Activities with Large Amounts of Hot Water .....	126.6	43.8	9.2	8.9	16.8	23.8	5.7	5.1	0.9	1.0	9.8
Separate Computer Area .....	107.7	39.2	9.2	8.6	8.8	22.9	1.6	3.2	1.7	1.0	8.7
<b>HVAC Conservation Features (more than one may apply)</b>											
Variable Air-Volume System.....	121.4	43.7	10.5	9.0	9.7	25.4	2.5	3.6	1.8	1.0	10.9
Economizer Cycle .....	122.6	43.7	9.7	9.7	9.8	26.4	2.2	4.6	1.7	1.0	10.5
HVAC Maintenance .....	101.1	37.9	7.7	7.0	8.1	20.1	2.8	5.5	1.1	1.0	8.0
Energy Management and Control System (EMCS) .....	114.0	41.8	10.1	10.2	8.6	23.6	1.7	2.6	1.7	1.0	9.8
<b>Window and Interior Lighting Features (more than one may apply)</b>											
Multipaned Windows .....	101.0	38.6	6.9	6.8	8.5	19.9	2.8	5.7	1.2	1.0	8.1
Tinted Window Glass .....	103.6	37.5	8.6	7.4	7.6	22.2	2.4	4.5	1.4	1.0	8.8
Reflective Window Glass .....	108.5	35.4	9.9	8.3	9.8	24.7	2.1	3.9	1.3	1.0	9.6
External Overhangs or Awnings .....	100.7	32.1	7.5	7.0	9.7	19.7	4.5	8.1	1.4	1.0	8.0
Skylights or Atriums .....	104.2	38.3	7.5	7.7	9.9	21.8	2.5	2.8	1.6	1.0	9.5
Daylighting Sensors .....	131.4	38.9	10.7	10.3	15.0	27.7	3.1	4.3	Q	1.0	13.1
Specular Reflectors .....	108.3	41.0	8.4	7.9	8.0	22.8	2.2	4.3	1.3	1.0	9.2
Electronic Ballasts .....	101.2	38.0	7.8	7.2	7.8	20.0	2.5	5.6	1.2	1.0	8.4
Energy Management and Control System (EMCS) For Lighting .....	112.6	37.8	11.5	9.1	6.2	26.1	1.9	3.1	Q	1.0	10.5
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)</b>											
Heating .....	87.6	33.8	6.5	6.1	6.3	16.8	2.6	4.5	1.1	1.0	7.5
Cooling .....	89.0	33.1	7.0	6.4	6.4	17.5	2.8	4.6	1.0	1.0	7.6
Lighting .....	81.3	33.7	6.0	5.4	3.2	14.8	2.5	5.6	0.8	1.0	6.9
Office Equipment .....	75.5	34.4	5.8	5.0	3.0	13.3	1.7	4.2	0.7	1.0	6.2

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>.

\* Data in this table do not include enclosed malls and strip malls. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

<sup>a</sup> The total in the "Electricity" row has been revised and does not match published value in consumption Table C3 ([http://www.eia.doe.gov/emeu/cbecs/cbecs2003/detailed\\_tables\\_2003/detailed\\_tables\\_2003.html](http://www.eia.doe.gov/emeu/cbecs/cbecs2003/detailed_tables_2003/detailed_tables_2003.html)).

<sup>b</sup> The total in the "Electricity" row has been revised and does not match published value in consumption Table C3.

(\*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

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

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



**Table E3. Electricity Consumption (Btu) by End Use for Non-Mall Buildings, 2003**

	Total Electricity Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	3,037	115	397	384	52	1,143	22	354	64	148	357
<b>Building Floorspace (Square Feet)</b>											
1,001 to 5,000 .....	386	19	43	18	11	93	7	137	8	12	38
5,001 to 10,000 .....	262	12	35	17	5	83	4	56	6	9	35
10,001 to 25,000 .....	407	20	46	44	8	151	3	53	9	19	54
25,001 to 50,000 .....	350	15	55	50	9	121	2	34	7	16	42
50,001 to 100,000 .....	405	16	57	65	7	158	2	29	6	18	45
100,001 to 200,000 .....	483	16	62	80	5	195	1	24	Q	31	56
200,001 to 500,000 .....	361	8	51	54	5	162	1	9	8	19	43
Over 500,000 .....	383	8	47	56	3	181	2	12	8	23	43
<b>Principal Building Activity</b>											
Education .....	371	15	74	83	11	113	2	16	4	32	21
Food Sales .....	208	6	12	7	Q	46	2	119	2	2	10
Food Service .....	217	10	28	24	10	42	13	70	2	2	15
Health Care .....	248	6	34	42	2	105	1	8	4	10	36
Inpatient .....	178	3	25	38	2	76	1	4	2	7	21
Outpatient .....	69	3	9	4	(*)	28	(*)	4	2	3	15
Lodging .....	235	14	24	14	12	124	2	12	Q	6	24
Retail (Other Than Mall).....	211	6	25	16	2	111	(*)	22	3	4	22
Office .....	719	33	101	63	7	281	1	35	32	74	91
Public Assembly .....	167	5	35	63	(*)	27	(*)	9	Q	3	23
Public Order and Safety .....	57	2	8	10	3	18	(*)	3	1	2	10
Religious Worship .....	62	3	11	5	(*)	17	(*)	6	(*)	1	18
Service .....	149	6	15	24	(*)	63	Q	9	1	3	28
Warehouse and Storage .....	244	5	13	20	2	132	Q	36	2	5	30
Other .....	133	2	16	11	Q	59	Q	10	Q	5	22
Vacant .....	15	1	2	1	Q	4	Q	(*)	Q	(*)	7
<b>Year Constructed</b>											
Before 1920 .....	90	2	6	11	Q	34	1	17	2	4	12
1920 to 1945 .....	208	4	16	30	2	89	1	26	3	8	30
1946 to 1959 .....	231	8	26	34	5	87	2	26	4	11	28
1960 to 1969 .....	327	12	43	50	5	113	1	40	6	18	39
1970 to 1979 .....	572	27	72	74	10	220	4	58	12	27	67
1980 to 1989 .....	627	28	91	66	12	236	4	66	15	37	72
1990 to 1999 .....	690	24	99	88	12	246	6	85	17	35	78
2000 to 2003 .....	293	10	45	32	4	116	3	38	4	9	32
<b>Census Region and Division</b>											
Northeast .....	503	20	37	67	6	206	2	58	12	30	64
New England .....	108	5	6	12	2	42	1	19	2	6	13
Middle Atlantic .....	395	15	31	55	4	164	1	39	10	24	51
Midwest .....	737	44	52	103	11	287	5	89	15	35	96
East North Central .....	524	28	34	77	6	208	4	59	11	27	68
West North Central .....	213	16	18	25	4	79	1	29	4	9	27
South .....	1,278	33	242	153	28	449	12	154	18	55	134
South Atlantic .....	717	20	124	85	19	258	7	87	11	35	71
East South Central .....	171	6	23	22	3	63	1	24	2	5	21
West South Central .....	390	8	96	46	6	128	3	43	5	14	41
West .....	519	18	66	61	7	200	3	53	19	28	64
Mountain .....	191	7	25	23	2	78	Q	18	Q	8	22
Pacific .....	329	11	41	38	5	122	2	35	13	20	42

**Table E3. Electricity Consumption (Btu) by End Use for Non-Mall Buildings, 2003**

	Total Electricity Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	3,037	115	397	384	52	1,143	22	354	64	148	357
<b>Climate Zone: 30-Year Average</b>											
Under 2,000 CDD and --											
More than 7,000 HDD .....	408	23	22	60	5	157	3	59	8	18	53
5,500-7,000 HDD .....	763	44	55	98	11	309	6	88	16	39	97
4,000-5,499 HDD .....	567	22	58	69	8	230	3	61	18	31	66
Fewer than 4,000 HDD .....	748	16	113	94	17	275	6	93	14	33	87
2,000 CDD or More and --											
Fewer than 4,000 HDD .....	549	9	149	62	11	172	5	53	7	27	53
<b>Number of Floors</b>											
One .....	1,140	50	155	110	23	384	13	230	17	34	125
Two .....	689	25	88	98	16	254	5	70	18	32	85
Three .....	286	13	32	40	4	113	1	22	7	16	38
Four to Nine .....	595	16	81	99	6	240	2	25	13	41	72
Ten or More .....	327	10	41	38	4	152	1	8	9	25	38
<b>Elevators and Escalators (more than one may apply)</b>											
Any Elevators .....	1,421	46	193	221	18	581	5	53	38	96	169
Number of Elevators.....											
One .....	354	13	47	61	6	134	1	20	7	22	42
Two to Five .....	585	22	79	89	7	234	2	22	19	43	70
Six or More .....	481	10	68	70	5	214	2	12	12	31	57
Any Escalators .....	193	5	32	30	2	80	Q	4	Q	11	22
<b>Number of Workers (main shift)</b>											
Fewer than 5 .....	372	18	39	28	7	119	3	92	3	5	57
5 to 9 .....	248	12	31	21	6	78	4	56	4	6	31
10 to 19 .....	303	17	40	31	8	103	5	52	5	9	35
20 to 49 .....	524	18	71	69	9	191	4	67	14	21	59
50 to 99 .....	403	16	55	67	7	151	2	37	8	19	41
100 to 249 .....	460	16	67	68	8	188	2	27	9	25	49
250 or More .....	727	18	95	100	7	313	2	22	20	63	85
<b>Weekly Operating Hours</b>											
Fewer than 40 .....	90	5	17	7	1	22	1	12	1	2	22
40 to 48 .....	397	22	66	42	6	133	1	33	10	25	60
49 to 60 .....	598	23	83	71	7	229	2	50	15	34	84
61 to 84 .....	497	19	62	67	9	184	4	64	9	24	55
85 to 167 .....	523	16	54	77	9	167	9	119	5	22	44
Open Continuously .....	932	30	116	119	20	408	4	76	23	41	93
<b>Ownership and Occupancy</b>											
Nongovernment Owned.....	2,300	91	280	224	38	897	19	319	54	102	276
Owner Occupied .....	1,086	38	136	116	16	424	5	135	28	51	138
Nonowner Occupied .....	1,205	52	144	108	22	471	14	184	25	51	134
Unoccupied .....	8	Q	Q	(*)	Q	2	(*)	Q	Q	Q	4
Government Owned .....	737	24	117	160	14	246	3	35	10	47	81
Federal .....	131	2	13	24	(*)	63	Q	3	2	5	19
State .....	204	3	25	53	3	62	(*)	9	3	Q	24
Local .....	402	19	79	83	11	120	3	23	5	21	38
<b>Vacancy Status</b>											
Completely Vacant .....	9	Q	Q	(*)	Q	3	Q	Q	Q	Q	5
Mostly Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant .....	575	25	76	68	7	240	2	30	13	42	74
Not At All Vacant .....	2,446	89	320	315	45	899	20	324	51	107	277

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**Table E3. Electricity Consumption (Btu) by End Use for Non-Mall Buildings, 2003**

	Total Electricity Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	3,037	115	397	384	52	1,143	22	354	64	148	357
<b>Number of Establishments</b>											
One .....	2,138	82	272	272	43	790	19	290	42	87	242
2 to 5 .....	502	16	67	64	5	199	2	49	12	24	64
6 to 10 .....	115	5	15	14	2	43	(*)	5	3	Q	13
11 to 20 .....	98	5	15	12	1	37	(*)	5	2	7	13
More than 20 .....	174	5	29	22	2	72	(*)	5	5	15	20
Currently Unoccupied .....	9	Q	Q	(*)	Q	3	Q	Q	Q	Q	5
<b>Predominant Exterior Wall Material</b>											
Brick, Stone or Stucco .....	1,507	58	208	207	31	530	13	180	30	73	176
Concrete (Block or Poured) .....	530	19	72	62	9	202	4	72	Q	18	60
Concrete Panels .....	399	9	50	46	4	185	1	22	10	28	43
Siding or Shingles .....	150	9	17	14	4	49	2	29	3	6	18
Metal Panels .....	297	12	24	35	3	120	Q	44	4	11	42
Window Glass .....	67	3	11	7	1	25	(*)	2	2	6	9
Other .....	63	3	10	7	(*)	25	1	4	1	4	7
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Predominant Roof Material</b>											
Built-Up .....	1,041	30	143	134	17	405	8	107	23	57	117
Shingles (Not Wood) .....	413	19	50	41	13	134	4	79	9	15	50
Metal Surfacing .....	392	18	47	48	7	150	Q	47	5	13	55
Synthetic or Rubber .....	890	37	116	126	12	329	6	91	22	53	99
Slate or Tile .....	104	4	16	11	2	34	1	17	2	4	12
Wooden Materials .....	37	2	6	4	1	14	Q	4	1	1	4
Concrete .....	99	Q	11	Q	1	Q	Q	5	1	3	13
Other .....	41	Q	6	3	Q	22	(*)	3	(*)	1	4
No One Major Type .....	20	Q	3	4	Q	6	Q	2	(*)	Q	3
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>											
Any Type of Renovation											
Since 1980 .....	780	30	85	112	14	298	5	88	15	42	90
Addition or Annex .....	315	13	35	55	5	121	3	31	4	14	35
Reduction In Floorspace .....	52	2	5	9	Q	22	(*)	2	1	3	7
Cosmetic Improvements .....	600	23	64	84	11	230	4	70	12	33	68
Wall or Roof Replacement .....	347	12	38	53	7	140	2	27	7	22	39
Interior Wall											
Re-Configuration .....	401	15	44	61	5	162	2	32	8	24	49
HVAC Equipment Upgrade.....	527	21	59	81	9	206	3	45	11	32	60
Lighting Upgrade .....	478	18	50	75	7	184	2	49	10	28	55
Window Replacement .....	251	9	23	37	4	100	2	26	5	16	29
Plumbing System Upgrade .....	314	10	32	50	5	129	2	25	5	19	36
Insulation Upgrade .....	174	6	20	30	2	64	1	15	3	11	21
Other Renovation .....	16	1	1	2	Q	7	Q	2	(*)	1	2
No Renovations Since 1980.....	647	22	78	87	10	246	4	78	12	26	85
Building Newer than 1980 .....	1,609	62	234	185	29	599	13	188	36	80	182
<b>Energy Sources (more than one may apply)</b>											
Electricity .....	3,037	115	397	384	52	1,143	22	354	64	148	357
Natural Gas .....	2,161	62	269	295	30	842	17	239	43	108	256
Fuel Oil .....	854	29	109	121	12	359	4	43	24	51	102
District Heat .....	335	3	24	69	3	147	1	12	5	29	42
District Chilled Water .....	192	2	16	49	2	68	1	7	3	Q	23
Propane .....	339	9	36	40	5	141	2	51	5	9	40
Other .....	77	2	8	14	1	30	(*)	6	Q	4	10

Energy Information Administration

2003 Commercial Buildings Energy Consumption Survey: Energy End-Use Consumption Tables

**Table E3. Electricity Consumption (Btu) by End Use for Non-Mall Buildings, 2003**

	Total Electricity Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	3,037	115	397	384	52	1,143	22	354	64	148	357
<b>Space-Heating Energy Sources<sup>a</sup></b>											
Electricity .....	1,553	115	225	155	37	571	12	164	36	70	168
Electricity Main .....	907	92	151	68	28	303	8	111	21	37	88
Electricity Secondary .....	646	23	74	87	9	267	5	53	15	33	80
Other Excluding Electricity .....	1,390	(*)	152	221	14	543	9	171	26	76	177
Buildings without Heating .....	93	(*)	20	8	1	29	1	19	1	2	11
<b>Primary Space-Heating Energy Source</b>											
Electricity .....	907	92	151	68	28	303	8	111	21	37	88
Natural Gas .....	1,565	19	192	219	18	620	11	179	34	75	197
Fuel Oil .....	77	1	6	13	1	29	(*)	13	1	4	9
District Heat .....	310	2	21	65	3	135	1	11	4	27	40
Propane .....	70	1	7	9	1	18	Q	19	Q	Q	10
Other .....	16	Q	1	2	(*)	7	(*)	2	Q	Q	2
<b>Cooling Energy Source<sup>b</sup></b>											
Electricity .....	2,776	110	397	326	50	1,032	21	335	61	126	318
Other Excluding Electricity .....	157	Q	(*)	42	2	63	(*)	6	3	Q	19
Buildings without Cooling .....	104	4	(*)	15	1	48	(*)	14	1	2	20
<b>Water-Heating Energy Source</b>											
Electricity .....	1,373	72	196	142	52	487	9	157	33	66	159
Other Excluding Electricity .....	1,519	38	186	228	(*)	593	13	179	29	79	174
Bldgs without Water Heating .....	144	4	16	15	(*)	63	Q	18	2	3	24
<b>Cooking Energy Source</b>											
Electricity .....	848	37	117	125	21	294	22	103	14	36	78
Other Excluding Electricity .....	529	15	76	78	8	193	(*)	81	9	18	52
Buildings without Cooking .....	1,659	63	205	181	23	656	(*)	170	41	93	227
<b>Energy End Uses (more than one may apply)</b>											
Buildings with Space Heating .....	2,944	115	377	376	51	1,113	21	335	63	146	346
Buildings with Cooling .....	2,933	111	397	369	52	1,095	22	341	63	147	337
Buildings with Water Heating .....	2,892	110	382	370	52	1,080	22	336	62	145	333
Buildings with Cooking .....	1,377	51	193	203	30	487	22	184	23	55	130
Buildings with Manufacturing .....	141	4	9	17	Q	64	Q	10	2	6	25
Buildings with Electricity Generation .....	890	30	117	129	13	367	4	42	28	56	103
<b>Percent of Floorspace Heated</b>											
Not Heated .....	93	(*)	20	8	1	29	1	19	1	2	11
1 to 50 .....	187	6	14	18	4	69	Q	39	Q	4	25
51 to 99 .....	395	14	49	49	7	152	3	54	6	16	46
100 .....	2,361	95	314	309	41	892	17	242	49	127	275
<b>Percent of Floorspace Cooled</b>											
Not Cooled .....	104	4	(*)	15	1	48	(*)	14	1	2	20
1 to 50 .....	444	15	23	56	7	195	Q	64	5	12	63
51 to 99 .....	746	29	93	97	11	273	5	104	13	38	82
100 .....	1,744	67	281	215	34	627	14	173	45	96	191

**Table E3. Electricity Consumption (Btu) by End Use for Non-Mall Buildings, 2003**

	Total Electricity Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	3,037	115	397	384	52	1,143	22	354	64	148	357
<b>Percent Lit When Open</b>											
Zero .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	225	12	32	29	6	63	2	28	Q	6	40
51 to 99 .....	894	34	116	125	16	328	5	87	21	58	104
100 .....	1,901	68	248	230	31	747	15	236	35	85	207
Building Never Open/ Electricity Not Used .....	12	Q	1	(*)	Q	4	Q	1	Q	Q	6
<b>Percent Lit When Closed</b>											
Zero .....	543	21	71	69	7	173	4	74	10	30	84
1 to 50 .....	1,407	58	195	181	23	487	13	180	29	72	169
51 to 100 .....	155	5	16	14	Q	75	1	24	2	5	11
Building Never Closed/ Electricity Not Used .....	932	30	116	119	20	408	4	76	23	41	93
<b>Heating Equipment (more than one may apply)</b>											
Heat Pumps .....	523	27	87	53	13	201	4	46	12	25	55
Packaged Heat Pumps .....	359	18	61	33	8	141	2	33	9	17	37
Split-System Heat Pumps .....	136	6	23	18	4	51	Q	11	2	5	15
Individual Room Heat Pumps ..	148	8	25	17	5	60	1	7	2	8	14
Furnaces .....	761	35	78	84	13	287	6	123	13	27	95
Individual Space Heaters .....	563	37	61	65	11	225	2	61	10	26	66
District Heat .....	317	2	22	66	3	139	1	11	4	28	40
Boilers .....	1,009	27	126	168	13	405	4	59	24	56	126
Packaged Heating Units .....	1,058	51	156	119	21	383	10	134	24	47	112
Other .....	168	10	21	20	3	64	1	18	3	8	20
<b>Cooling Equipment (more than one may apply)</b>											
Residential-Type Central											
Air Conditioners .....	455	19	58	67	11	158	4	59	8	15	56
Heat Pumps .....	547	26	91	55	13	209	4	54	12	25	58
Packaged Heat Pumps .....	360	18	59	32	8	142	2	36	9	17	38
Split-System Heat Pumps .....	139	5	24	19	4	50	Q	13	2	5	16
Individual Room Heat Pumps ..	171	8	30	19	5	68	1	11	3	8	17
Individual Air Conditioners .....	479	20	63	62	13	196	3	44	7	18	53
District Chilled Water .....	192	2	16	49	2	68	1	7	3	Q	23
Central Chillers .....	836	22	122	140	10	338	3	27	24	50	99
Packaged Air Conditioning											
Units .....	1,578	64	216	179	27	595	14	205	30	72	176
Swamp Coolers .....	75	2	9	9	2	28	1	12	1	2	9
Other .....	75	3	11	10	(*)	28	(*)	Q	1	4	8
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>											
Heating .....	716	36	91	84	16	258	6	83	17	37	88
Cooling .....	976	41	124	120	19	363	7	110	23	55	114
<b>Water Heating Equipment</b>											
Centralized System .....	1,759	68	219	227	31	630	16	250	35	79	204
Distributed System .....	483	20	75	54	10	179	3	52	9	23	58
Combination of Centralized and Distributed System .....	651	22	88	88	12	271	3	34	19	43	71

**Table E3. Electricity Consumption (Btu) by End Use for Non-Mall Buildings, 2003**

	Total Electricity Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	3,037	115	397	384	52	1,143	22	354	64	148	357
<b>Lighting Equipment Types (more than one may apply)</b>											
Incandescent .....	2,006	75	257	257	34	803	17	193	44	105	222
Standard Fluorescent .....	2,951	111	388	378	50	1,103	22	344	63	147	345
Compact Fluorescent .....	1,665	61	220	238	27	652	12	139	40	88	189
High Intensity Discharge .....	1,126	36	131	170	16	472	5	82	22	61	130
Halogen .....	1,069	40	132	139	18	453	8	94	22	50	114
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Refrigeration Equipment (more than one may apply)</b>											
Any Refrigeration.....	2,771	104	359	350	49	1,030	22	354	59	137	307
Commercial Refrigeration .....	1,788	61	237	236	32	651	21	283	28	70	169
Walk-In Units .....	1,489	48	196	198	27	539	20	250	22	56	133
Cases or Cabinets .....	1,441	48	193	185	24	522	17	239	23	54	135
Residential-Type Units .....	1,769	71	236	236	31	681	9	161	34	98	212
Vending Machines .....	1,985	67	261	275	31	784	9	183	45	110	219
No Refrigeration .....	266	11	39	34	4	112	Q	(*)	5	11	50
<b>Office Equipment (more than one may apply)</b>											
Computers .....	2,838	107	377	370	48	1,077	19	299	63	148	328
With Flat Screen Monitors .....	1,589	57	213	223	22	614	8	112	46	109	187
Dedicated Servers .....	2,035	74	272	279	30	797	9	164	57	124	230
Laser Printers .....	1,550	65	208	197	27	569	11	182	38	76	177
Inkjet Printers .....	1,820	61	251	242	29	717	9	158	39	102	211
FAX Machines .....	2,701	100	359	352	45	1,036	18	277	62	142	310
Photocopiers .....	2,361	83	321	327	35	928	9	187	60	136	276
<b>Number of Computers</b>											
None .....	199	8	20	14	4	66	3	55	1	(*)	29
1 to 4 .....	523	26	58	45	14	166	9	133	5	5	60
5 to 9 .....	274	14	39	28	4	102	2	40	4	6	35
10 to 19 .....	285	11	39	33	5	108	1	40	5	9	35
20 to 49 .....	408	13	54	56	6	161	Q	38	Q	16	50
50 to 99 .....	259	9	38	38	5	108	1	11	6	14	29
100 to 249 .....	368	15	54	61	6	142	1	16	7	25	41
250 or More .....	722	19	96	109	8	291	2	21	22	73	79
<b>Number of Dedicated Servers</b>											
None .....	1,002	41	125	105	23	346	13	191	7	25	127
1 to 4 .....	1,166	50	159	156	20	451	5	128	17	48	131
5 to 9 .....	250	7	36	40	4	100	Q	11	6	17	28
10 to 19 .....	216	5	25	35	2	83	(*)	12	5	23	25
20 to 49 .....	183	5	32	26	2	71	1	6	6	14	21
50 or More .....	219	7	20	23	2	92	Q	7	22	21	25
<b>Number of Photocopiers</b>											
None .....	676	32	77	57	18	215	13	167	4	12	81
One .....	593	26	73	66	10	224	3	92	9	16	74
2 to 4 .....	706	25	100	104	12	270	3	59	19	34	80
5 to 9 .....	323	11	45	52	5	121	1	14	8	29	37
10 or More .....	738	21	103	105	8	312	2	21	25	56	85

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**Table E3. Electricity Consumption (Btu) by End Use for Non-Mall Buildings, 2003**

	Total Electricity Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	3,037	115	397	384	52	1,143	22	354	64	148	357
<b>Energy-Related Space Functions (more than one may apply)</b>											
Commercial Food Preparation....	1,376	51	193	203	30	486	22	184	23	55	130
Activities with Large Amounts of Hot Water .....	1,167	46	158	174	27	463	12	99	18	50	120
Separate Computer Area .....	1,550	54	219	232	23	615	6	85	45	101	169
<b>HVAC Conservation Features (more than one may apply)</b>											
Variable Air-Volume System.....	1,267	45	181	176	19	498	7	71	35	85	151
Economizer Cycle .....	1,408	51	182	206	21	556	7	97	37	91	161
HVAC Maintenance .....	2,703	98	362	360	46	1,030	20	282	59	137	310
Energy Management and Control System (EMCS) .....	954	30	142	160	14	368	4	40	27	61	108
<b>Window and Interior Lighting Features (more than one may apply)</b>											
Multipaned Windows .....	2,024	87	244	263	34	774	16	222	46	98	239
Tinted Window Glass .....	1,682	56	235	221	24	663	10	135	41	95	202
Reflective Window Glass .....	522	20	77	71	8	211	2	33	11	29	60
External Overhangs or Awnings .....	961	37	120	121	19	339	11	140	25	47	101
Skylights or Atriums .....	645	20	81	96	8	273	3	35	20	33	75
Daylighting Sensors .....	206	6	29	30	2	79	1	12	Q	12	23
Specular Reflectors .....	1,487	52	195	207	23	596	9	113	34	81	177
Electronic Ballasts .....	2,498	91	335	336	41	937	17	262	56	132	291
Energy Management and Control System (EMCS) For Lighting .....	311	10	47	44	4	125	1	15	Q	19	35
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)</b>											
Heating .....	1,930	73	255	262	33	717	14	193	49	101	233
Cooling .....	2,031	74	281	275	36	755	15	198	45	111	241
Lighting .....	2,006	81	270	255	31	693	17	265	40	104	251
Office Equipment .....	721	29	107	97	13	258	5	81	13	26	92
<b>Annual Consumption (kilowatthours)</b>											
10,000 or Less .....	13	(*)	1	1	(*)	4	(*)	2	(*)	(*)	4
10,001 to 50,000 .....	153	8	19	10	2	55	(*)	22	3	5	29
50,001 to 100,000 .....	176	8	22	14	4	55	1	35	4	6	27
100,001 to 500,000 .....	715	35	84	72	16	228	10	146	14	27	81
500,001 to 1,000,000 .....	331	14	51	44	10	115	3	43	5	13	33
1,000,001 to 5,000,000 .....	917	34	124	145	14	347	4	78	16	55	100
Over 5,000,000 .....	732	16	95	99	7	338	2	28	21	42	83

**Table E3. Electricity Consumption (Btu) by End Use for Non-Mall Buildings, 2003**

	Total Electricity Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	3,037	115	397	384	52	1,143	22	354	64	148	357
<b>Provider of Purchased Electricity (more than one may apply)</b>											
Local Utility .....	2,700	104	347	340	49	1,007	21	329	53	131	319
Some Other Provider .....	308	9	44	42	3	122	1	25	Q	16	35

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. In the 1999 CBECS, malls represented 9.7 percent of total electricity consumption.

<sup>a</sup> Totals in the "Electricity," "Electricity Secondary," and "Other Excluding Electricity" rows have been revised and values do not match published values in consumption Table C13

([http://www.eia.doe.gov/emeu/cbecs/cbecs2003/detailed\\_tables\\_2003/detailed\\_tables\\_2003.html](http://www.eia.doe.gov/emeu/cbecs/cbecs2003/detailed_tables_2003/detailed_tables_2003.html)).

<sup>b</sup> Totals in the "Electricity" and "Other Excluding Electricity" rows have been revised and do not match published value in consumption Table C13.

(\*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

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

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



**Table E4. Electricity Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003**

	Electricity Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	48.0	1.8	6.3	6.1	0.8	18.1	0.3	5.6	1.0	2.3	5.6
<b>Building Floorspace (Square Feet)</b>											
1,001 to 5,000 .....	60.8	2.9	6.8	2.9	1.7	14.6	1.1	21.6	1.2	1.9	6.0
5,001 to 10,000 .....	42.2	2.0	5.6	2.8	0.9	13.3	0.7	9.0	0.9	1.5	5.7
10,001 to 25,000 .....	35.8	1.7	4.1	3.9	0.7	13.3	0.3	4.6	0.8	1.7	4.7
25,001 to 50,000 .....	41.8	1.8	6.6	6.0	1.0	14.4	0.2	4.1	0.8	1.9	5.0
50,001 to 100,000 .....	44.8	1.8	6.4	7.2	0.8	17.5	0.3	3.3	0.7	2.0	5.0
100,001 to 200,000 .....	53.5	1.8	6.9	8.8	0.5	21.7	0.1	2.7	Q	3.5	6.2
200,001 to 500,000 .....	51.2	1.2	7.2	7.6	0.7	23.0	0.2	1.2	1.1	2.7	6.1
Over 500,000 .....	64.9	1.4	7.9	9.5	0.5	30.6	0.3	2.1	1.4	3.9	7.3
<b>Principal Building Activity</b>											
Education .....	37.6	1.5	7.5	8.4	1.1	11.5	0.2	1.6	0.4	3.3	2.1
Food Sales .....	168.5	5.1	9.9	6.0	Q	37.2	1.9	96.1	1.6	1.5	8.1
Food Service .....	130.9	6.3	17.0	14.8	6.3	25.4	8.1	42.1	1.0	1.0	8.9
Health Care .....	78.3	1.9	10.6	13.3	0.8	33.1	0.2	2.6	1.2	3.2	11.3
Inpatient .....	93.7	1.6	13.0	20.0	1.1	40.1	0.4	2.0	1.1	3.6	10.9
Outpatient .....	55.0	2.3	7.0	3.3	0.3	22.6	0.1	3.5	1.3	2.6	12.0
Lodging .....	46.1	2.8	4.7	2.7	2.3	24.3	0.4	2.3	Q	1.2	4.7
Retail (Other Than Mall).....	48.8	1.5	5.9	3.7	0.4	25.7	0.1	5.0	0.6	0.9	5.1
Office .....	58.9	2.7	8.3	5.2	0.6	23.1	0.1	2.9	2.6	6.1	7.5
Public Assembly .....	42.6	1.3	8.9	15.9	0.1	7.0	0.1	2.2	Q	0.8	5.8
Public Order and Safety .....	52.3	1.6	7.2	9.5	3.0	16.5	0.1	2.9	0.6	1.5	9.2
Religious Worship .....	16.6	0.8	2.8	1.4	0.1	4.4	0.1	1.7	0.1	0.2	4.9
Service .....	37.5	1.4	3.8	6.1	0.1	15.8	Q	2.2	0.3	0.8	7.0
Warehouse and Storage .....	25.9	0.5	1.4	2.2	0.2	14.0	Q	3.8	0.2	0.5	3.2
Other .....	76.8	1.4	9.3	6.1	0.3	34.3	Q	6.0	Q	2.9	12.6
Vacant .....	8.3	0.5	0.8	0.5	Q	2.4	Q	0.2	Q	Q	3.7
<b>Year Constructed</b>											
Before 1920 .....	24.1	0.5	1.7	2.9	Q	9.2	0.3	4.5	0.6	0.9	3.2
1920 to 1945 .....	31.5	0.6	2.4	4.5	0.3	13.5	0.2	3.9	0.4	1.2	4.5
1946 to 1959 .....	33.7	1.2	3.8	5.0	0.7	12.8	0.3	3.8	0.6	1.6	4.1
1960 to 1969 .....	40.6	1.4	5.3	6.2	0.7	14.1	0.2	4.9	0.8	2.3	4.8
1970 to 1979 .....	54.2	2.5	6.8	7.0	1.0	20.9	0.4	5.5	1.2	2.6	6.3
1980 to 1989 .....	61.7	2.8	9.0	6.5	1.2	23.3	0.4	6.5	1.5	3.6	7.1
1990 to 1999 .....	57.1	2.0	8.2	7.3	1.0	20.4	0.5	7.0	1.4	2.9	6.4
2000 to 2003 .....	55.3	1.9	8.4	6.0	0.8	22.0	0.5	7.1	0.7	1.7	6.1
<b>Census Region and Division</b>											
Northeast .....	39.3	1.5	2.9	5.2	0.5	16.1	0.2	4.6	1.0	2.4	5.0
New England .....	36.7	1.6	2.0	4.1	0.7	14.2	0.3	6.5	0.7	2.1	4.4
Middle Atlantic .....	40.0	1.5	3.1	5.6	0.4	16.6	0.1	4.0	1.0	2.4	5.2
Midwest .....	44.1	2.6	3.1	6.1	0.6	17.2	0.3	5.3	0.9	2.1	5.7
East North Central .....	46.0	2.4	3.0	6.8	0.6	18.3	0.3	5.2	1.0	2.3	6.0
West North Central .....	40.0	3.0	3.4	4.8	0.8	14.8	0.2	5.5	0.7	1.6	5.1
South .....	56.1	1.4	10.6	6.7	1.2	19.7	0.5	6.8	0.8	2.4	5.9
South Atlantic .....	59.3	1.6	10.2	7.0	1.6	21.4	0.6	7.2	0.9	2.9	5.9
East South Central .....	53.0	1.8	7.1	6.9	0.9	19.6	Q	7.5	0.6	1.6	6.6
West South Central .....	52.3	1.0	12.8	6.2	0.8	17.2	0.5	5.8	0.7	1.9	5.5
West .....	47.1	1.6	6.0	5.6	0.6	18.2	0.3	4.8	1.7	2.5	5.8
Mountain .....	52.5	2.0	7.0	6.3	0.6	21.6	Q	5.0	Q	2.3	6.1
Pacific .....	44.4	1.5	5.5	5.2	0.7	16.5	0.3	4.7	Q	2.6	5.7

**Table E4. Electricity Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003**

	Electricity Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	48.0	1.8	6.3	6.1	0.8	18.1	0.3	5.6	1.0	2.3	5.6
<b>Climate Zone: 30-Year Average</b>											
Under 2,000 CDD and --											
More than 7,000 HDD .....	39.3	2.2	2.1	5.8	0.5	15.1	0.3	5.6	0.8	1.7	5.1
5,500-7,000 HDD .....	44.7	2.6	3.2	5.8	0.6	18.1	0.3	5.2	1.0	2.3	5.7
4,000-5,499 HDD .....	49.9	2.0	5.1	6.1	0.7	20.2	0.3	5.4	1.6	2.7	5.8
Fewer than 4,000 HDD .....	49.3	1.1	7.4	6.2	1.1	18.1	0.4	6.1	0.9	2.2	5.8
2,000 CDD or More and --											
Fewer than 4,000 HDD .....	59.2	1.0	16.1	6.7	1.2	18.5	0.5	5.7	0.8	2.9	5.7
<b>Number of Floors</b>											
One .....	45.7	2.0	6.2	4.4	0.9	15.4	0.5	9.2	0.7	1.4	5.0
Two .....	43.1	1.6	5.5	6.1	1.0	15.9	0.3	4.4	1.1	2.0	5.3
Three .....	38.7	1.8	4.4	5.4	0.6	15.3	0.2	2.9	1.0	2.2	5.1
Four to Nine .....	59.1	1.6	8.0	9.9	0.6	23.9	0.2	2.5	1.2	4.0	7.1
Ten or More .....	66.1	2.1	8.4	7.6	0.7	30.7	0.3	1.5	1.9	5.1	7.7
<b>Elevators and Escalators (more than one may apply)</b>											
Any Elevators .....	58.0	1.9	7.9	9.0	0.7	23.7	0.2	2.2	1.6	3.9	6.9
Number of Elevators.....											
One .....	43.7	1.7	5.8	7.5	0.7	16.5	0.1	2.5	0.9	2.7	5.2
Two to Five .....	57.8	2.2	7.8	8.8	0.7	23.1	0.2	2.1	1.8	4.2	6.9
Six or More .....	76.8	1.7	10.8	11.2	0.7	34.1	0.3	1.9	2.0	5.0	9.1
Any Escalators .....	82.2	2.1	13.4	12.7	0.7	33.9	Q	1.8	Q	4.8	9.3
<b>Number of Workers (main shift)</b>											
Fewer than 5 .....	26.4	1.3	2.8	2.0	0.5	8.5	0.2	6.6	0.2	0.4	4.0
5 to 9 .....	40.4	2.0	5.0	3.5	0.9	12.6	0.6	9.1	0.7	1.0	5.0
10 to 19 .....	38.8	2.2	5.1	3.9	1.0	13.2	0.7	6.7	0.6	1.1	4.4
20 to 49 .....	47.8	1.6	6.5	6.3	0.9	17.5	0.4	6.1	1.3	1.9	5.4
50 to 99 .....	50.8	2.0	6.9	8.4	0.9	19.1	0.3	4.7	1.0	2.4	5.2
100 to 249 .....	66.9	2.3	9.8	9.8	1.2	27.3	0.3	4.0	1.3	3.7	7.2
250 or More .....	76.3	1.9	10.0	10.5	0.7	32.9	0.2	2.3	2.1	6.6	9.0
<b>Weekly Operating Hours</b>											
Fewer than 40 .....	15.3	0.9	2.9	1.2	0.2	3.7	0.2	1.9	0.1	0.4	3.7
40 to 48 .....	34.3	1.9	5.7	3.6	0.5	11.5	0.1	2.9	0.9	2.2	5.2
49 to 60 .....	38.1	1.5	5.3	4.5	0.5	14.6	0.1	3.2	1.0	2.2	5.3
61 to 84 .....	48.2	1.8	6.0	6.5	0.8	17.9	0.4	6.2	0.9	2.3	5.3
85 to 167 .....	75.4	2.3	7.7	11.1	1.3	24.0	1.4	17.2	0.8	3.1	6.3
Open Continuously .....	72.3	2.3	9.0	9.3	1.6	31.7	0.3	5.9	1.8	3.2	7.2
<b>Ownership and Occupancy</b>											
Nongovernment Owned.....											
Owner Occupied .....	47.9	1.9	5.8	4.7	0.8	18.7	0.4	6.6	1.1	2.1	5.8
Nonowner Occupied .....	46.3	1.6	5.8	4.9	0.7	18.1	0.2	5.7	1.2	2.2	5.9
Unoccupied .....	51.8	2.2	6.2	4.6	0.9	20.3	0.6	7.9	1.1	2.2	5.8
Unoccupied .....	6.4	Q	Q	0.2	Q	1.7	(*)	Q	Q	Q	3.2
Government Owned .....											
Federal .....	48.2	1.6	7.7	10.5	0.9	16.1	0.2	2.3	0.7	3.0	5.3
State .....	67.1	0.9	6.5	12.2	0.2	32.5	0.1	1.6	0.8	2.8	9.5
Local .....	53.9	0.8	6.7	14.1	0.8	16.3	0.1	2.5	0.8	5.4	6.4
Local .....	42.0	2.0	8.3	8.7	1.1	12.6	0.3	2.4	0.5	2.2	3.9
<b>Vacancy Status</b>											
Completely Vacant .....	6.2	Q	Q	0.2	Q	1.7	Q	Q	Q	Q	3.1
Mostly Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant .....	47.1	2.0	6.2	5.6	0.6	19.6	0.2	2.5	1.0	3.4	6.0
Not At All Vacant .....	49.7	1.8	6.5	6.4	0.9	18.2	0.4	6.6	1.0	2.2	5.6

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**Table E4. Electricity Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003**

	Electricity Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	48.0	1.8	6.3	6.1	0.8	18.1	0.3	5.6	1.0	2.3	5.6
<b>Number of Establishments</b>											
One .....	48.2	1.8	6.1	6.1	1.0	17.8	0.4	6.5	0.9	2.0	5.5
2 to 5 .....	46.0	1.5	6.1	5.9	0.5	18.2	0.2	4.5	1.1	2.2	5.8
6 to 10 .....	58.9	2.7	7.4	7.1	0.8	22.1	0.1	2.4	1.4	8.2	6.7
11 to 20 .....	50.1	2.8	7.4	6.3	0.5	19.1	0.1	Q	1.0	3.3	6.8
More than 20 .....	66.8	2.0	11.0	8.4	0.6	27.4	0.1	1.8	2.0	5.7	7.7
Currently Unoccupied .....	6.2	Q	Q	0.2	Q	1.7	Q	Q	Q	Q	3.1
<b>Predominant Exterior Wall Material</b>											
Brick, Stone or Stucco .....	46.7	1.8	6.4	6.4	1.0	16.4	0.4	5.6	0.9	2.3	5.5
Concrete (Block or Poured) .....	49.3	1.7	6.7	5.8	0.8	18.8	0.3	6.7	1.2	1.7	5.6
Concrete Panels .....	62.6	1.4	7.8	7.3	0.6	29.0	0.2	3.4	1.6	4.5	6.7
Siding or Shingles .....	37.7	2.3	4.2	3.4	0.9	12.3	0.5	7.2	0.9	1.4	4.5
Metal Panels .....	40.3	1.6	3.3	4.8	0.5	16.3	Q	6.0	0.5	1.5	5.7
Window Glass .....	65.2	3.0	10.4	7.2	1.0	24.7	0.1	2.0	1.9	6.2	8.8
Other .....	56.8	3.1	8.6	5.9	0.3	22.9	0.7	3.7	1.3	3.9	6.4
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Predominant Roof Material</b>											
Built-Up .....	50.1	1.5	6.9	6.5	0.8	19.5	0.4	5.2	1.1	2.7	5.6
Shingles (Not Wood) .....	41.8	1.9	5.1	4.2	1.3	13.6	0.4	8.0	0.9	1.5	5.1
Metal Surfacing .....	34.9	1.6	4.2	4.2	0.6	13.4	Q	4.1	0.4	1.1	4.9
Synthetic or Rubber .....	60.5	2.5	7.9	8.6	0.8	22.4	0.4	6.2	1.5	3.6	6.7
Slate or Tile .....	42.5	1.7	6.6	4.4	0.7	14.1	0.6	6.9	0.8	1.8	5.1
Wooden Materials .....	41.6	2.5	6.3	4.4	1.0	16.1	(*)	4.7	0.7	1.2	4.5
Concrete .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	69.7	0.7	9.9	5.5	Q	37.7	Q	5.6	0.4	2.0	6.9
No One Major Type .....	35.5	Q	4.7	6.6	Q	10.8	Q	Q	0.7	Q	4.6
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>											
<b>Any Type of Renovation</b>											
Since 1980 .....	44.2	1.7	4.8	6.4	0.8	16.9	0.3	5.0	0.9	2.4	5.1
Addition or Annex .....	48.1	1.9	5.3	8.4	0.8	18.5	0.4	4.7	0.6	2.1	5.4
Reduction In Floorspace .....	51.8	1.7	5.2	8.9	0.9	22.0	0.2	2.3	0.9	3.0	6.7
Cosmetic Improvements .....	46.2	1.8	4.9	6.5	0.8	17.7	0.3	5.4	0.9	2.6	5.2
Wall or Roof Replacement .....	43.0	1.4	4.7	6.6	0.8	17.3	0.3	3.4	0.9	2.7	4.9
<b>Interior Wall</b>											
Re-Configuration .....	47.2	1.7	5.1	7.2	0.6	19.1	0.2	3.8	0.9	2.8	5.7
HVAC Equipment Upgrade.....	49.0	1.9	5.5	7.5	0.8	19.1	0.3	4.2	1.1	3.0	5.6
Lighting Upgrade .....	46.5	1.7	4.8	7.3	0.7	17.9	0.2	4.7	1.0	2.7	5.4
Window Replacement .....	39.9	1.5	3.6	5.9	0.7	15.9	0.2	4.1	0.7	2.6	4.7
Plumbing System Upgrade .....	43.9	1.4	4.5	7.0	0.7	18.1	0.2	3.5	0.7	2.6	5.1
Insulation Upgrade .....	43.4	1.4	4.9	7.5	0.6	16.1	0.3	3.8	0.8	2.7	5.3
Other Renovation .....	30.8	1.4	2.0	4.3	Q	13.8	0.3	3.4	0.3	1.0	3.7
No Renovations Since 1980.....	35.7	1.2	4.3	4.8	0.5	13.6	0.2	4.3	0.7	1.4	4.7
Building Newer than 1980 .....	58.5	2.3	8.5	6.7	1.0	21.8	0.5	6.8	1.3	2.9	6.6
<b>Energy Sources (more than one may apply)</b>											
Electricity .....	48.0	1.8	6.3	6.1	0.8	18.1	0.3	5.6	1.0	2.3	5.6
Natural Gas .....	49.7	1.4	6.2	6.8	0.7	19.4	0.4	5.5	1.0	2.5	5.9
Fuel Oil .....	56.4	1.9	7.2	8.0	0.8	23.7	0.2	2.8	1.6	3.4	6.7
District Heat .....	61.5	0.5	4.4	12.8	0.6	26.9	0.1	2.2	0.8	5.4	7.7
District Chilled Water .....	67.4	0.7	5.6	17.2	0.8	23.9	0.2	2.6	1.0	7.2	8.2
Propane .....	47.9	1.2	5.1	5.7	0.8	19.9	0.3	7.2	0.7	1.3	5.7
Other .....	56.0	1.4	5.5	10.1	0.5	21.9	0.2	4.6	Q	2.8	7.3

**Table E4. Electricity Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003**

	Electricity Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	48.0	1.8	6.3	6.1	0.8	18.1	0.3	5.6	1.0	2.3	5.6
<b>Space-Heating Energy Sources</b>											
Electricity .....	54.4	4.0	7.9	5.4	1.3	20.0	0.4	5.7	1.3	2.4	5.9
Electricity Main .....	56.7	5.7	9.4	4.3	1.8	19.0	0.5	6.9	1.3	2.3	5.5
Electricity Secondary .....	51.5	1.8	5.9	6.9	0.7	21.3	0.4	4.2	1.2	2.6	6.4
Other Excluding Electricity .....	44.2	(*)	4.8	7.0	0.4	17.3	0.3	5.4	0.8	2.4	5.6
Buildings without Heating .....	28.1	(*)	6.1	2.3	0.3	8.9	0.4	5.8	0.3	0.6	3.5
<b>Primary Space-Heating Energy Source</b>											
Electricity .....	56.7	5.7	9.4	4.3	1.8	19.0	0.5	6.9	1.3	2.3	5.5
Natural Gas .....	47.5	0.6	5.8	6.6	0.5	18.8	0.3	5.4	1.0	2.3	6.0
Fuel Oil .....	20.1	0.2	1.5	3.4	0.3	7.5	0.1	3.3	0.3	1.0	2.4
District Heat .....	63.1	0.4	4.2	13.3	0.6	27.6	0.1	2.2	0.9	5.6	8.1
Propane .....	35.8	0.5	3.8	4.4	0.5	9.3	Q	9.9	Q	Q	5.0
Other .....	43.1	0.5	2.8	5.0	0.4	20.5	0.1	6.1	0.5	Q	6.0
<b>Cooling Energy Source</b>											
Electricity .....	51.1	2.0	7.3	6.0	0.9	19.0	0.4	6.2	1.1	2.3	5.8
Other Excluding Electricity .....	59.6	Q	(*)	16.1	0.7	23.9	0.2	2.3	1.0	7.7	7.3
Buildings without Cooling .....	16.2	0.6	(*)	2.4	0.1	7.5	0.1	2.1	0.1	0.3	3.2
<b>Water-Heating Energy Source</b>											
Electricity .....	50.0	2.6	7.1	5.2	1.9	17.7	0.3	5.7	1.2	2.4	5.8
Other Excluding Electricity .....	52.4	1.3	6.4	7.9	(*)	20.5	0.4	6.2	1.0	2.7	6.0
Bldgs without Water Heating .....	21.1	0.6	2.3	2.1	(*)	9.1	Q	2.6	0.2	0.4	3.6
<b>Cooking Energy Source</b>											
Electricity .....	64.4	2.8	8.9	9.5	1.6	22.3	1.7	7.8	1.1	2.8	6.0
Other Excluding Electricity .....	58.3	1.6	8.4	8.5	0.9	21.2	(*)	8.9	1.0	2.0	5.7
Buildings without Cooking .....	40.4	1.5	5.0	4.4	0.6	16.0	(*)	4.1	1.0	2.3	5.5
<b>Energy End Uses (more than one may apply)</b>											
Buildings with Space Heating ....	49.1	1.9	6.3	6.3	0.9	18.6	0.3	5.6	1.0	2.4	5.8
Buildings with Cooling .....	51.5	2.0	7.0	6.5	0.9	19.2	0.4	6.0	1.1	2.6	5.9
Buildings with Water Heating .....	51.2	2.0	6.8	6.5	0.9	19.1	0.4	6.0	1.1	2.6	5.9
Buildings with Cooking .....	61.9	2.3	8.7	9.1	1.3	21.9	1.0	8.3	1.0	2.5	5.9
Buildings with Manufacturing .....	45.0	1.3	3.0	5.4	Q	20.5	Q	3.2	0.6	2.1	7.8
Buildings with Electricity Generation .....	69.4	2.4	9.1	10.1	1.0	28.6	0.3	3.3	2.2	4.4	8.0
<b>Percent of Floorspace Heated</b>											
Not Heated .....	28.1	(*)	6.1	2.3	0.3	8.9	0.4	5.8	0.3	0.6	3.5
1 to 50 .....	27.4	0.8	2.0	2.7	0.6	10.1	Q	5.7	Q	0.6	3.6
51 to 99 .....	48.7	1.7	6.1	6.0	0.8	18.7	0.3	6.7	0.8	1.9	5.6
100 .....	52.4	2.1	7.0	6.9	0.9	19.8	0.4	5.4	1.1	2.8	6.1
<b>Percent of Floorspace Cooled</b>											
Not Cooled .....	16.2	0.6	(*)	2.4	0.1	7.5	0.1	2.1	0.1	0.3	3.2
1 to 50 .....	26.7	0.9	1.4	3.4	0.4	11.8	Q	3.9	0.3	0.8	3.8
51 to 99 .....	56.5	2.2	7.0	7.4	0.8	20.7	0.4	7.9	1.0	2.9	6.2
100 .....	64.3	2.5	10.4	7.9	1.3	23.1	0.5	6.4	1.7	3.6	7.0

**Table E4. Electricity Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003**

	Electricity Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	48.0	1.8	6.3	6.1	0.8	18.1	0.3	5.6	1.0	2.3	5.6
<b>Percent Lit When Open</b>											
Zero .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	22.0	1.2	3.1	2.8	0.5	6.2	0.2	2.8	Q	0.6	3.9
51 to 99 .....	48.9	1.9	6.3	6.8	0.9	18.0	0.3	4.8	1.1	3.1	5.7
100 .....	58.0	2.1	7.6	7.0	0.9	22.8	0.5	7.2	1.1	2.6	6.3
Building Never Open/ Electricity Not Used .....	7.1	Q	0.7	0.2	Q	2.1	Q	0.3	Q	Q	3.3
<b>Percent Lit When Closed</b>											
Zero .....	31.2	1.2	4.1	4.0	0.4	10.0	0.2	4.2	0.5	1.7	4.8
1 to 50 .....	45.5	1.9	6.3	5.8	0.7	15.7	0.4	5.8	1.0	2.3	5.5
51 to 100 .....	74.0	2.6	7.5	6.8	1.1	35.6	0.6	11.5	0.8	2.2	5.3
Building Never Closed/ Electricity Not Used .....	72.3	2.3	9.0	9.3	1.6	31.7	0.3	5.9	1.8	3.2	7.2
<b>Heating Equipment (more than one may apply)</b>											
Heat Pumps .....	59.3	3.1	9.9	6.0	1.5	22.8	0.4	5.2	1.3	2.8	6.2
Packaged Heat Pumps .....	66.0	3.3	11.2	6.1	1.4	25.9	0.4	6.0	1.6	3.2	6.9
Split-System Heat Pumps .....	52.6	2.3	9.1	7.0	1.4	19.6	Q	4.3	0.8	1.8	5.8
Individual Room Heat Pumps ..	55.1	3.1	9.4	6.2	1.9	22.3	0.3	2.7	0.8	2.9	5.3
Furnaces .....	38.8	1.8	4.0	4.3	0.7	14.6	0.3	6.3	0.7	1.4	4.8
Individual Space Heaters .....	44.9	2.9	4.8	5.1	0.9	18.0	0.2	4.9	0.8	2.0	5.2
District Heat .....	61.4	0.5	4.2	12.8	0.6	26.9	0.1	2.1	0.9	5.5	7.8
Boilers .....	49.4	1.3	6.2	8.2	0.6	19.9	0.2	2.9	1.2	2.7	6.2
Packaged Heating Units .....	58.7	2.8	8.7	6.6	1.2	21.3	0.6	7.4	1.4	2.6	6.2
Other .....	51.9	3.1	6.4	6.2	1.0	19.8	0.2	5.7	0.8	2.5	6.3
<b>Cooling Equipment (more than one may apply)</b>											
Residential-Type Central											
Air Conditioners .....	41.3	1.7	5.3	6.1	1.0	14.3	0.4	5.3	0.7	1.4	5.1
Heat Pumps .....	60.5	2.9	10.1	6.0	1.5	23.1	0.4	6.0	1.3	2.8	6.4
Packaged Heat Pumps .....	66.3	3.3	10.9	5.8	1.4	26.2	0.4	6.6	1.6	3.2	7.0
Split-System Heat Pumps .....	53.5	2.1	9.4	7.2	1.4	19.2	Q	5.0	0.8	1.9	6.0
Individual Room Heat Pumps ..	58.3	2.9	10.3	6.6	1.7	23.3	0.3	3.7	0.9	2.9	5.8
Individual Air Conditioners .....	38.1	1.6	5.0	5.0	1.1	15.6	0.2	3.5	0.5	1.4	4.2
District Chilled Water .....	67.4	0.7	5.6	17.2	0.8	23.9	0.2	2.6	1.0	7.2	8.2
Central Chillers .....	71.9	1.9	10.5	12.0	0.9	29.1	0.3	2.3	2.0	4.3	8.5
Packaged Air Conditioning											
Units .....	52.7	2.1	7.2	6.0	0.9	19.9	0.5	6.8	1.0	2.4	5.9
Swamp Coolers .....	48.1	1.3	5.5	5.8	1.4	18.1	0.6	7.7	0.5	1.4	5.8
Other .....	61.3	2.1	9.3	8.5	0.4	23.2	0.2	Q	1.1	2.9	6.4
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>											
Heating .....	43.7	2.2	5.5	5.2	1.0	15.7	0.4	5.1	1.0	2.2	5.4
Cooling .....	46.5	2.0	5.9	5.7	0.9	17.3	0.3	5.2	1.1	2.6	5.4
<b>Water Heating Equipment</b>											
Centralized System .....	50.8	2.0	6.3	6.6	0.9	18.2	0.5	7.2	1.0	2.3	5.9
Distributed System .....	41.8	1.8	6.5	4.7	0.8	15.5	0.3	4.5	0.8	2.0	5.0
Combination of Centralized and Distributed System .....	63.4	2.1	8.5	8.6	1.1	26.4	0.3	3.3	1.8	4.2	6.9

**Table E4. Electricity Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003**

	Electricity Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	48.0	1.8	6.3	6.1	0.8	18.1	0.3	5.6	1.0	2.3	5.6
<b>Lighting Equipment Types (more than one may apply)</b>											
Incandescent .....	52.1	1.9	6.7	6.7	0.9	20.9	0.4	5.0	1.2	2.7	5.8
Standard Fluorescent .....	49.4	1.9	6.5	6.3	0.8	18.5	0.4	5.8	1.1	2.5	5.8
Compact Fluorescent .....	60.4	2.2	8.0	8.6	1.0	23.6	0.4	5.0	1.5	3.2	6.9
High Intensity Discharge .....	54.6	1.8	6.4	8.2	0.8	22.9	0.3	4.0	1.1	2.9	6.3
Halogen .....	60.4	2.3	7.4	7.8	1.0	25.6	0.4	5.3	1.2	2.8	6.4
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Refrigeration Equipment (more than one may apply)</b>											
Any Refrigeration.....	52.3	2.0	6.8	6.6	0.9	19.5	0.4	6.7	1.1	2.6	5.8
Commercial Refrigeration .....	66.8	2.3	8.9	8.8	1.2	24.3	0.8	10.6	1.0	2.6	6.3
Walk-In Units .....	73.5	2.4	9.7	9.8	1.3	26.6	1.0	12.3	1.1	2.8	6.6
Cases or Cabinets .....	70.5	2.4	9.4	9.1	1.2	25.6	0.9	11.7	1.1	2.6	6.6
Residential-Type Units .....	45.5	1.8	6.1	6.1	0.8	17.5	0.2	4.1	0.9	2.5	5.5
Vending Machines .....	56.2	1.9	7.4	7.8	0.9	22.2	0.3	5.2	1.3	3.1	6.2
No Refrigeration .....	25.7	1.1	3.7	3.3	0.4	10.9	Q	(*)	0.4	1.1	4.8
<b>Office Equipment (more than one may apply)</b>											
Computers .....	51.0	1.9	6.8	6.6	0.9	19.4	0.3	5.4	1.1	2.7	5.9
With Flat Screen Monitors .....	60.1	2.1	8.1	8.5	0.8	23.2	0.3	4.2	1.7	4.1	7.1
Dedicated Servers .....	56.0	2.0	7.5	7.7	0.8	21.9	0.2	4.5	1.6	3.4	6.3
Laser Printers .....	47.0	2.0	6.3	6.0	0.8	17.2	0.3	5.5	1.2	2.3	5.4
Inkjet Printers .....	56.5	1.9	7.8	7.5	0.9	22.3	0.3	4.9	1.2	3.2	6.6
FAX Machines .....	51.6	1.9	6.9	6.7	0.9	19.8	0.3	5.3	1.2	2.7	5.9
Photocopiers .....	51.0	1.8	6.9	7.1	0.7	20.1	0.2	4.0	1.3	2.9	6.0
<b>Number of Computers</b>											
None .....	25.9	1.0	2.6	1.9	0.6	8.5	0.4	7.2	0.1	N	3.7
1 to 4 .....	42.2	2.1	4.7	3.6	1.1	13.4	0.8	10.7	0.4	0.4	4.8
5 to 9 .....	38.1	2.0	5.4	3.8	0.6	14.1	0.3	5.6	0.6	0.9	4.8
10 to 19 .....	43.1	1.6	5.9	5.0	0.7	16.3	0.2	6.0	0.7	1.3	5.3
20 to 49 .....	55.1	1.7	7.2	7.6	0.9	21.7	Q	5.1	Q	2.2	6.7
50 to 99 .....	48.1	1.7	7.0	7.1	0.9	20.1	0.1	2.1	1.1	2.7	5.4
100 to 249 .....	55.0	2.3	8.0	9.2	0.9	21.2	0.1	2.4	1.0	3.7	6.1
250 or More .....	72.4	2.0	9.7	11.0	0.8	29.2	0.2	2.1	2.2	7.3	7.9
<b>Number of Dedicated Servers</b>											
None .....	37.2	1.5	4.6	3.9	0.8	12.8	0.5	7.1	0.3	0.9	4.7
1 to 4 .....	48.4	2.1	6.6	6.5	0.8	18.7	0.2	5.3	0.7	2.0	5.4
5 to 9 .....	64.8	1.9	9.4	10.3	0.9	25.8	Q	2.9	1.6	4.4	7.1
10 to 19 .....	71.4	1.8	8.3	11.7	0.7	27.5	0.2	3.9	1.6	7.6	8.3
20 to 49 .....	70.7	1.8	12.2	9.9	0.8	27.3	0.2	2.2	2.4	5.5	8.3
50 or More .....	79.8	2.4	7.2	8.3	0.6	33.6	Q	2.4	7.9	7.8	9.2
<b>Number of Photocopiers</b>											
None .....	39.6	1.9	4.5	3.4	1.0	12.6	0.7	9.8	0.2	0.7	4.8
One .....	38.3	1.7	4.7	4.3	0.6	14.5	0.2	6.0	0.6	1.1	4.8
2 to 4 .....	46.8	1.7	6.6	6.9	0.8	17.9	0.2	3.9	1.3	2.2	5.3
5 to 9 .....	58.6	2.0	8.1	9.4	0.8	22.0	0.2	2.6	1.4	5.3	6.8
10 or More .....	72.5	2.1	10.1	10.3	0.8	30.6	0.2	2.1	2.4	5.5	8.4

**Table E4. Electricity Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003**

	Electricity Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	48.0	1.8	6.3	6.1	0.8	18.1	0.3	5.6	1.0	2.3	5.6
<b>Energy-Related Space Functions (more than one may apply)</b>											
Commercial Food Preparation....	61.9	2.3	8.7	9.1	1.3	21.9	1.0	8.3	1.0	2.5	5.9
Activities with Large Amounts of Hot Water .....	59.9	2.4	8.1	8.9	1.4	23.8	0.6	5.1	0.9	2.6	6.2
Separate Computer Area .....	57.7	2.0	8.1	8.6	0.9	22.9	0.2	3.2	1.7	3.8	6.3
<b>HVAC Conservation Features (more than one may apply)</b>											
Variable Air-Volume System.....	64.7	2.3	9.2	9.0	0.9	25.4	0.3	3.6	1.8	4.3	7.7
Economizer Cycle .....	66.7	2.4	8.6	9.7	1.0	26.4	0.3	4.6	1.7	4.3	7.6
HVAC Maintenance .....	52.8	1.9	7.1	7.0	0.9	20.1	0.4	5.5	1.1	2.7	6.1
Energy Management and Control System (EMCS) .....	61.1	1.9	9.1	10.2	0.9	23.6	0.3	2.6	1.7	3.9	6.9
<b>Window and Interior Lighting Features (more than one may apply)</b>											
Multipaned Windows .....	52.3	2.3	6.3	6.8	0.9	20.0	0.4	5.7	1.2	2.5	6.2
Tinted Window Glass .....	56.8	1.9	7.9	7.5	0.8	22.4	0.3	4.6	1.4	3.2	6.8
Reflective Window Glass .....	61.2	2.3	9.0	8.3	0.9	24.8	0.3	3.9	1.3	3.4	7.1
External Overhangs or Awnings .....	55.9	2.2	7.0	7.1	1.1	19.7	0.7	8.1	1.4	2.8	5.9
Skylights or Atriums .....	51.6	1.6	6.4	7.7	0.7	21.9	0.2	2.8	1.6	2.6	6.0
Daylighting Sensors .....	71.9	2.2	10.0	10.3	0.6	27.7	0.5	4.3	Q	4.2	8.2
Specular Reflectors .....	56.9	2.0	7.5	7.9	0.9	22.8	0.3	4.3	1.3	3.1	6.8
Electronic Ballasts .....	53.3	1.9	7.1	7.2	0.9	20.0	0.4	5.6	1.2	2.8	6.2
Energy Management and Control System (EMCS) For Lighting .....	65.1	2.0	9.8	9.1	0.9	26.1	0.2	3.1	Q	4.0	7.3
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)</b>											
Heating .....	45.2	1.7	6.0	6.1	0.8	16.8	0.3	4.5	1.1	2.4	5.5
Cooling .....	47.0	1.7	6.5	6.4	0.8	17.5	0.3	4.6	1.0	2.6	5.6
Lighting .....	42.7	1.7	5.7	5.4	0.7	14.8	0.4	5.6	0.8	2.2	5.3
Office Equipment .....	37.2	1.5	5.5	5.0	0.7	13.3	0.2	4.2	0.7	1.3	4.7
<b>Annual Consumption (kilowatthours)</b>											
10,000 or Less .....	4.6	0.1	0.4	0.3	(*)	1.5	(*)	0.7	(*)	0.1	1.4
10,001 to 50,000 .....	16.6	0.8	2.1	1.1	0.3	5.9	(*)	2.4	0.4	0.5	3.1
50,001 to 100,000 .....	27.3	1.3	3.4	2.1	0.6	8.6	0.2	5.4	0.6	0.9	4.1
100,001 to 500,000 .....	44.4	2.2	5.2	4.5	1.0	14.2	0.6	9.1	0.8	1.7	5.1
500,001 to 1,000,000 .....	49.1	2.1	7.6	6.5	1.4	17.1	0.5	6.3	0.8	1.9	5.0
1,000,001 to 5,000,000 .....	69.4	2.6	9.4	10.9	1.1	26.3	0.3	5.9	1.2	4.1	7.5
Over 5,000,000 .....	84.1	1.8	10.9	11.4	0.8	38.8	0.3	3.2	2.4	4.9	9.6

**Table E4. Electricity Consumption (Btu) Intensities by End Use for Non-Mall Buildings, 2003**

	Electricity Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	48.0	1.8	6.3	6.1	0.8	18.1	0.3	5.6	1.0	2.3	5.6
<b>Provider of Purchased Electricity (more than one may apply)</b>											
Local Utility .....	46.7	1.8	6.0	5.9	0.8	17.4	0.4	5.7	0.9	2.3	5.5
Some Other Provider .....	62.3	1.8	8.9	8.5	0.6	24.6	0.2	5.1	Q	3.3	7.1

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/cbeecs>.

\* Figures in this table do not include enclosed malls and strip malls. In the 1999 CBECS, malls represented 9.7 percent of total electricity consumption.

(\*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

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

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



**Table E5. Electricity Consumption (kWh) by End Use for Non-Mall Buildings, 2003**

	Total Electricity Consumption (billion kWh)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	890	34	116	113	15	335	6	104	19	43	105
<b>Building Floorspace (Square Feet)</b>											
1,001 to 5,000 .....	113	5	13	5	3	27	2	40	2	3	11
5,001 to 10,000 .....	77	4	10	5	2	24	1	16	2	3	10
10,001 to 25,000 .....	119	6	14	13	2	44	1	15	3	6	16
25,001 to 50,000 .....	103	4	16	15	3	35	(*)	10	2	5	12
50,001 to 100,000 .....	119	5	17	19	2	46	1	9	2	5	13
100,001 to 200,000 .....	141	5	18	23	1	57	(*)	7	Q	9	16
200,001 to 500,000 .....	106	2	15	16	1	48	(*)	3	2	6	13
Over 500,000 .....	112	2	14	16	1	53	(*)	4	2	7	13
<b>Principal Building Activity</b>											
Education .....	109	4	22	24	3	33	(*)	5	1	9	6
Food Sales .....	61	2	4	2	Q	14	1	35	1	1	3
Food Service .....	63	3	8	7	3	12	4	20	(*)	1	4
Health Care .....	73	2	10	12	1	31	(*)	2	1	3	11
Inpatient .....	52	1	7	11	1	22	(*)	1	1	2	6
Outpatient .....	20	1	3	1	(*)	8	(*)	1	(*)	1	4
Lodging .....	69	4	7	4	3	36	1	3	Q	2	7
Retail (Other Than Mall).....	62	2	7	5	1	33	(*)	6	1	1	6
Office .....	211	10	30	18	2	82	(*)	10	9	22	27
Public Assembly .....	49	1	10	18	(*)	8	(*)	3	Q	1	7
Public Order and Safety .....	17	1	2	3	1	5	(*)	1	(*)	(*)	3
Religious Worship .....	18	1	3	2	(*)	5	(*)	2	(*)	(*)	5
Service .....	44	2	4	7	(*)	18	Q	3	(*)	1	8
Warehouse and Storage .....	72	1	4	6	1	39	Q	10	1	1	9
Other .....	39	1	5	3	Q	17	Q	3	Q	1	6
Vacant .....	4	(*)	(*)	(*)	Q	1	Q	(*)	Q	(*)	2
<b>Year Constructed</b>											
Before 1920 .....	26	1	2	3	Q	10	(*)	5	1	1	4
1920 to 1945 .....	61	1	5	9	1	26	(*)	7	1	2	9
1946 to 1959 .....	68	2	8	10	1	26	1	8	1	3	8
1960 to 1969 .....	96	3	13	15	2	33	(*)	12	2	5	11
1970 to 1979 .....	168	8	21	22	3	65	1	17	4	8	20
1980 to 1989 .....	184	8	27	19	4	69	1	19	4	11	21
1990 to 1999 .....	202	7	29	26	4	72	2	25	5	10	23
2000 to 2003 .....	86	3	13	9	1	34	1	11	1	3	9
<b>Census Region and Division</b>											
Northeast .....	147	6	11	20	2	60	1	17	4	9	19
New England .....	32	1	2	4	1	12	(*)	6	1	2	4
Middle Atlantic .....	116	4	9	16	1	48	(*)	11	3	7	15
Midwest .....	216	13	15	30	3	84	1	26	4	10	28
East North Central .....	153	8	10	23	2	61	1	17	3	8	20
West North Central .....	62	5	5	7	1	23	(*)	9	1	3	8
South .....	375	10	71	45	8	132	3	45	5	16	39
South Atlantic .....	210	6	36	25	6	76	2	26	3	10	21
East South Central .....	50	2	7	7	1	19	(*)	7	1	2	6
West South Central .....	114	2	28	13	2	37	1	13	1	4	12
West .....	152	5	19	18	2	59	1	15	6	8	19
Mountain .....	56	2	7	7	1	23	Q	5	Q	2	6
Pacific .....	96	3	12	11	1	36	1	10	4	6	12

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**Table E5. Electricity Consumption (kWh) by End Use for Non-Mall Buildings, 2003**

	Total Electricity Consumption (billion kWh)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	890	34	116	113	15	335	6	104	19	43	105
<b>Climate Zone: 30-Year Average</b>											
Under 2,000 CDD and --											
More than 7,000 HDD .....	120	7	6	18	2	46	1	17	2	5	15
5,500-7,000 HDD .....	224	13	16	29	3	91	2	26	5	11	29
4,000-5,499 HDD .....	166	7	17	20	2	67	1	18	5	9	19
Fewer than 4,000 HDD .....	219	5	33	28	5	81	2	27	4	10	26
2,000 CDD or More and --											
Fewer than 4,000 HDD .....	161	3	44	18	3	50	1	16	2	8	16
<b>Number of Floors</b>											
One .....	334	15	45	32	7	113	4	67	5	10	37
Two .....	202	7	26	29	5	75	1	20	5	9	25
Three .....	84	4	9	12	1	33	(*)	6	2	5	11
Four to Nine .....	174	5	24	29	2	70	1	7	4	12	21
Ten or More .....	96	3	12	11	1	44	(*)	2	3	7	11
<b>Elevators and Escalators (more than one may apply)</b>											
Any Elevators .....	416	14	57	65	5	170	1	16	11	28	50
Number of Elevators.....											
One .....	104	4	14	18	2	39	(*)	6	2	6	12
Two to Five .....	172	7	23	26	2	68	1	6	5	12	20
Six or More .....	141	3	20	21	1	63	1	3	4	9	17
Any Escalators .....	57	1	9	9	(*)	23	Q	1	Q	3	6
<b>Number of Workers (main shift)</b>											
Fewer than 5 .....	109	5	11	8	2	35	1	27	1	2	17
5 to 9 .....	73	4	9	6	2	23	1	16	1	2	9
10 to 19 .....	89	5	12	9	2	30	2	15	1	3	10
20 to 49 .....	154	5	21	20	3	56	1	20	4	6	17
50 to 99 .....	118	5	16	20	2	44	1	11	2	5	12
100 to 249 .....	135	5	20	20	2	55	1	8	3	7	14
250 or More .....	213	5	28	29	2	92	1	6	6	19	25
<b>Weekly Operating Hours</b>											
Fewer than 40 .....	26	1	5	2	(*)	6	(*)	3	(*)	1	6
40 to 48 .....	116	6	19	12	2	39	(*)	10	3	7	18
49 to 60 .....	175	7	24	21	2	67	1	15	4	10	25
61 to 84 .....	146	5	18	20	3	54	1	19	3	7	16
85 to 167 .....	153	5	16	23	3	49	3	35	2	6	13
Open Continuously .....	273	9	34	35	6	120	1	22	7	12	27
<b>Ownership and Occupancy</b>											
Nongovernment Owned.....	674	27	82	66	11	263	6	93	16	30	81
Owner Occupied .....	318	11	40	34	5	124	1	39	8	15	41
Nonowner Occupied .....	353	15	42	32	6	138	4	54	7	15	39
Unoccupied .....	2	Q	Q	(*)	Q	1	(*)	Q	Q	Q	1
Government Owned .....	216	7	34	47	4	72	1	10	3	14	24
Federal .....	38	1	4	7	(*)	19	Q	1	(*)	2	5
State .....	60	1	7	16	1	18	(*)	3	1	Q	7
Local .....	118	6	23	24	3	35	1	7	2	6	11
<b>Vacancy Status</b>											
Completely Vacant .....	3	Q	Q	(*)	Q	1	Q	Q	Q	Q	1
Mostly Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant .....	169	7	22	20	2	70	1	9	4	12	22
Not At All Vacant .....	717	26	94	92	13	263	6	95	15	31	81

**Table E5. Electricity Consumption (kWh) by End Use for Non-Mall Buildings, 2003**

	Total Electricity Consumption (billion kWh)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	890	34	116	113	15	335	6	104	19	43	105
<b>Number of Establishments</b>											
One .....	627	24	80	80	13	231	6	85	12	25	71
2 to 5 .....	147	5	20	19	2	58	1	14	4	7	19
6 to 10 .....	34	2	4	4	(*)	13	(*)	1	1	Q	4
11 to 20 .....	29	2	4	4	(*)	11	(*)	2	1	2	4
More than 20 .....	51	1	8	6	(*)	21	(*)	1	2	4	6
Currently Unoccupied .....	3	Q	Q	(*)	Q	1	Q	Q	Q	Q	1
<b>Predominant Exterior Wall Material</b>											
Brick, Stone or Stucco .....	442	17	61	61	9	155	4	53	9	21	52
Concrete (Block or Poured) .....	155	5	21	18	3	59	1	21	Q	5	17
Concrete Panels .....	117	3	15	14	1	54	(*)	6	3	8	13
Siding or Shingles .....	44	3	5	4	1	14	1	8	1	2	5
Metal Panels .....	87	4	7	10	1	35	Q	13	1	3	12
Window Glass .....	20	1	3	2	(*)	7	(*)	1	1	2	3
Other .....	18	1	3	2	(*)	7	(*)	1	(*)	1	2
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Predominant Roof Material</b>											
Built-Up .....	305	9	42	39	5	119	2	31	7	17	34
Shingles (Not Wood) .....	121	5	15	12	4	39	1	23	3	4	15
Metal Surfacing .....	115	5	14	14	2	44	Q	14	1	4	16
Synthetic or Rubber .....	261	11	34	37	3	96	2	27	7	16	29
Slate or Tile .....	30	1	5	3	1	10	(*)	5	1	1	4
Wooden Materials .....	11	1	2	1	(*)	4	Q	1	(*)	(*)	1
Concrete .....	29	Q	3	Q	(*)	Q	Q	1	(*)	1	4
Other .....	12	Q	2	1	Q	7	(*)	1	(*)	(*)	1
No One Major Type .....	6	Q	1	1	Q	2	Q	(*)	(*)	Q	1
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>											
Any Type of Renovation											
Since 1980 .....	229	9	25	33	4	87	1	26	5	12	26
Addition or Annex .....	92	4	10	16	2	36	1	9	1	4	10
Reduction In Floorspace .....	15	1	2	3	Q	7	(*)	1	(*)	1	2
Cosmetic Improvements .....	176	7	19	25	3	68	1	20	4	10	20
Wall or Roof Replacement .....	102	3	11	16	2	41	1	8	2	6	12
Interior Wall											
Re-Configuration .....	118	4	13	18	2	48	1	9	2	7	14
HVAC Equipment Upgrade.....	154	6	17	24	3	60	1	13	3	9	18
Lighting Upgrade .....	140	5	15	22	2	54	1	14	3	8	16
Window Replacement .....	73	3	7	11	1	29	(*)	7	1	5	9
Plumbing System Upgrade .....	92	3	9	15	2	38	(*)	7	2	6	11
Insulation Upgrade .....	51	2	6	9	1	19	(*)	4	1	3	6
Other Renovation .....	5	(*)	(*)	1	Q	2	Q	1	(*)	(*)	1
No Renovations Since 1980.....	190	6	23	25	3	72	1	23	4	7	25
Building Newer than 1980 .....	472	18	69	54	8	176	4	55	11	24	53
<b>Energy Sources (more than one may apply)</b>											
Electricity .....	890	34	116	113	15	335	6	104	19	43	105
Natural Gas .....	633	18	79	87	9	247	5	70	13	32	75
Fuel Oil .....	250	8	32	36	4	105	1	12	7	15	30
District Heat .....	98	1	7	20	1	43	(*)	3	1	9	12
District Chilled Water .....	56	1	5	14	1	20	(*)	2	1	Q	7
Propane .....	99	3	11	12	2	41	1	15	1	3	12
Other .....	23	1	2	4	(*)	9	(*)	2	Q	1	3

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**Table E5. Electricity Consumption (kWh) by End Use for Non-Mall Buildings, 2003**

	Total Electricity Consumption (billion kWh)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	890	34	116	113	15	335	6	104	19	43	105
<b>Space-Heating Energy Sources<sup>a</sup></b>											
Electricity .....	455	34	66	46	11	167	4	48	11	20	49
Electricity Main .....	266	27	44	20	8	89	2	32	6	11	26
Electricity Secondary .....	189	7	22	26	3	78	1	15	4	10	24
Other Excluding Electricity .....	407	(*)	45	65	4	159	3	50	8	22	52
Buildings without Heating .....	27	(*)	6	2	(*)	9	(*)	6	(*)	1	3
<b>Primary Space-Heating Energy Source</b>											
Electricity .....	266	27	44	20	8	89	2	32	6	11	26
Natural Gas .....	459	6	56	64	5	182	3	53	10	22	58
Fuel Oil .....	23	(*)	2	4	(*)	8	(*)	4	(*)	1	3
District Heat .....	91	1	6	19	1	40	(*)	3	1	8	12
Propane .....	20	(*)	2	3	(*)	5	Q	6	Q	Q	3
Other .....	5	Q	(*)	1	(*)	2	(*)	1	Q	Q	1
<b>Cooling Energy Source</b>											
Electricity .....	814	32	116	96	15	303	6	98	18	37	93
Other Excluding Electricity .....	46	Q	(*)	12	1	18	(*)	2	1	Q	6
Buildings without Cooling .....	30	1	(*)	4	(*)	14	(*)	4	(*)	1	6
<b>Water-Heating Energy Source</b>											
Electricity .....	402	21	57	42	15	143	3	46	10	19	46
Other Excluding Electricity .....	445	11	54	67	(*)	174	4	52	9	23	51
Bldgs without Water Heating .....	42	1	5	4	(*)	18	Q	5	(*)	1	7
<b>Cooking Energy Source</b>											
Electricity .....	249	11	34	37	6	86	6	30	4	11	23
Other Excluding Electricity .....	155	4	22	23	2	56	(*)	24	3	5	15
Buildings without Cooking .....	486	19	60	53	7	192	(*)	50	12	27	66
<b>Energy End Uses (more than one may apply)</b>											
Buildings with Space Heating .....	863	34	111	110	15	326	6	98	18	43	101
Buildings with Cooling .....	860	33	116	108	15	321	6	100	19	43	99
Buildings with Water Heating .....	848	32	112	108	15	317	6	98	18	43	97
Buildings with Cooking .....	404	15	56	59	9	143	6	54	7	16	38
Buildings with Manufacturing .....	41	1	3	5	Q	19	Q	3	1	2	7
Buildings with Electricity Generation .....	261	9	34	38	4	107	1	12	8	17	30
<b>Percent of Floorspace Heated</b>											
Not Heated .....	27	(*)	6	2	(*)	9	(*)	6	(*)	1	3
1 to 50 .....	55	2	4	5	1	20	Q	11	Q	1	7
51 to 99 .....	116	4	14	14	2	44	1	16	2	5	13
100 .....	692	28	92	91	12	262	5	71	14	37	81
<b>Percent of Floorspace Cooled</b>											
Not Cooled .....	30	1	(*)	4	(*)	14	(*)	4	(*)	1	6
1 to 50 .....	130	4	7	16	2	57	Q	19	1	4	19
51 to 99 .....	219	9	27	29	3	80	1	30	4	11	24
100 .....	511	20	82	63	10	184	4	51	13	28	56

**Table E5. Electricity Consumption (kWh) by End Use for Non-Mall Buildings, 2003**

	Total Electricity Consumption (billion kWh)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	890	34	116	113	15	335	6	104	19	43	105
<b>Percent Lit When Open</b>											
Zero .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	66	3	9	8	2	19	1	8	Q	2	12
51 to 99 .....	262	10	34	37	5	96	2	26	6	17	30
100 .....	557	20	73	67	9	219	4	69	10	25	61
Building Never Open/ Electricity Not Used .....	4	Q	(*)	(*)	Q	1	Q	(*)	Q	Q	2
<b>Percent Lit When Closed</b>											
Zero .....	159	6	21	20	2	51	1	22	3	9	25
1 to 50 .....	412	17	57	53	7	143	4	53	9	21	50
51 to 100 .....	45	2	5	4	Q	22	(*)	7	1	1	3
Building Never Closed/ Electricity Not Used .....	273	9	34	35	6	120	1	22	7	12	27
<b>Heating Equipment (more than one may apply)</b>											
Heat Pumps .....	153	8	26	15	4	59	1	13	3	7	16
Packaged Heat Pumps .....	105	5	18	10	2	41	1	10	3	5	11
Split-System Heat Pumps .....	40	2	7	5	1	15	Q	3	1	1	4
Individual Room Heat Pumps ..	43	2	7	5	1	18	(*)	2	1	2	4
Furnaces .....	223	10	23	25	4	84	2	36	4	8	28
Individual Space Heaters .....	165	11	18	19	3	66	1	18	3	7	19
District Heat .....	93	1	6	19	1	41	(*)	3	1	8	12
Boilers .....	296	8	37	49	4	119	1	17	7	16	37
Packaged Heating Units .....	310	15	46	35	6	112	3	39	7	14	33
Other .....	49	3	6	6	1	19	(*)	5	1	2	6
<b>Cooling Equipment (more than one may apply)</b>											
Residential-Type Central Air Conditioners .....	133	6	17	20	3	46	1	17	2	5	16
Heat Pumps .....	160	8	27	16	4	61	1	16	3	7	17
Packaged Heat Pumps .....	105	5	17	9	2	42	1	10	3	5	11
Split-System Heat Pumps .....	41	2	7	6	1	15	Q	4	1	1	5
Individual Room Heat Pumps ..	50	2	9	6	2	20	(*)	3	1	2	5
Individual Air Conditioners .....	140	6	18	18	4	57	1	13	2	5	16
District Chilled Water .....	56	1	5	14	1	20	(*)	2	1	Q	7
Central Chillers .....	245	6	36	41	3	99	1	8	7	15	29
Packaged Air Conditioning Units .....	463	19	63	52	8	174	4	60	9	21	52
Swamp Coolers .....	22	1	2	3	1	8	(*)	4	(*)	1	3
Other .....	22	1	3	3	(*)	8	(*)	Q	(*)	1	2
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>											
Heating .....	210	11	27	25	5	76	2	24	5	11	26
Cooling .....	286	12	36	35	6	106	2	32	7	16	34
<b>Water Heating Equipment</b>											
Centralized System .....	515	20	64	67	9	185	5	73	10	23	60
Distributed System .....	142	6	22	16	3	53	1	15	3	7	17
Combination of Centralized and Distributed System .....	191	6	26	26	3	80	1	10	5	13	21

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**Table E5. Electricity Consumption (kWh) by End Use for Non-Mall Buildings, 2003**

	Total Electricity Consumption (billion kWh)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	890	34	116	113	15	335	6	104	19	43	105
<b>Lighting Equipment Types (more than one may apply)</b>											
Incandescent .....	588	22	75	75	10	235	5	57	13	31	65
Standard Fluorescent .....	865	33	114	111	15	323	6	101	18	43	101
Compact Fluorescent .....	488	18	64	70	8	191	3	41	12	26	56
High Intensity Discharge .....	330	11	38	50	5	138	2	24	6	18	38
Halogen .....	313	12	39	41	5	133	2	28	6	15	33
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Refrigeration Equipment (more than one may apply)</b>											
Any Refrigeration.....	812	30	105	103	14	302	6	104	17	40	90
Commercial Refrigeration .....	524	18	69	69	9	191	6	83	8	21	50
Walk-In Units .....	436	14	58	58	8	158	6	73	6	17	39
Cases or Cabinets .....	422	14	57	54	7	153	5	70	7	16	39
Residential-Type Units .....	519	21	69	69	9	200	3	47	10	29	62
Vending Machines .....	582	20	76	81	9	230	3	54	13	32	64
No Refrigeration .....	78	3	11	10	1	33	Q	(*)	1	3	15
<b>Office Equipment (more than one may apply)</b>											
Computers .....	832	31	111	108	14	316	6	88	19	43	96
With Flat Screen Monitors .....	466	17	62	65	6	180	2	33	13	32	55
Dedicated Servers .....	596	22	80	82	9	234	3	48	17	36	68
Laser Printers .....	454	19	61	58	8	167	3	53	11	22	52
Inkjet Printers .....	533	18	74	71	9	210	3	46	12	30	62
FAX Machines .....	792	29	105	103	13	304	5	81	18	42	91
Photocopiers .....	692	24	94	96	10	272	3	55	18	40	81
<b>Number of Computers</b>											
None .....	58	2	6	4	1	19	1	16	(*)	(*)	8
1 to 4 .....	153	8	17	13	4	49	3	39	2	2	18
5 to 9 .....	80	4	11	8	1	30	1	12	1	2	10
10 to 19 .....	83	3	11	10	1	32	(*)	12	1	3	10
20 to 49 .....	120	4	16	16	2	47	Q	11	Q	5	15
50 to 99 .....	76	3	11	11	1	32	(*)	3	2	4	8
100 to 249 .....	108	4	16	18	2	42	(*)	5	2	7	12
250 or More .....	212	6	28	32	2	85	1	6	7	21	23
<b>Number of Dedicated Servers</b>											
None .....	294	12	37	31	7	101	4	56	2	7	37
1 to 4 .....	342	15	47	46	6	132	2	38	5	14	38
5 to 9 .....	73	2	11	12	1	29	Q	3	2	5	8
10 to 19 .....	63	2	7	10	1	24	(*)	3	1	7	7
20 to 49 .....	54	1	9	7	1	21	(*)	2	2	4	6
50 or More .....	64	2	6	7	1	27	Q	2	6	6	7
<b>Number of Photocopiers</b>											
None .....	198	9	22	17	5	63	4	49	1	4	24
One .....	174	8	22	19	3	66	1	27	2	5	22
2 to 4 .....	207	7	29	30	3	79	1	17	6	10	23
5 to 9 .....	95	3	13	15	1	36	(*)	4	2	9	11
10 or More .....	216	6	30	31	2	91	1	6	7	16	25

**Table E5. Electricity Consumption (kWh) by End Use for Non-Mall Buildings, 2003**

	Total Electricity Consumption (billion kWh)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	890	34	116	113	15	335	6	104	19	43	105
<b>Energy-Related Space Functions (more than one may apply)</b>											
Commercial Food Preparation....	403	15	56	59	9	142	6	54	7	16	38
Activities with Large Amounts of Hot Water .....	342	14	46	51	8	136	4	29	5	15	35
Separate Computer Area .....	454	16	64	68	7	180	2	25	13	30	50
<b>HVAC Conservation Features (more than one may apply)</b>											
Variable Air-Volume System.....	371	13	53	52	5	146	2	21	10	25	44
Economizer Cycle .....	413	15	53	60	6	163	2	28	11	27	47
HVAC Maintenance .....	792	29	106	105	13	302	6	83	17	40	91
Energy Management and Control System (EMCS) .....	280	9	42	47	4	108	1	12	8	18	32
<b>Window and Interior Lighting Features (more than one may apply)</b>											
Multipaned Windows .....	593	26	72	77	10	227	5	65	13	29	70
Tinted Window Glass .....	493	16	69	65	7	194	3	40	12	28	59
Reflective Window Glass .....	153	6	23	21	2	62	1	10	3	9	18
External Overhangs or Awnings .....	282	11	35	36	6	99	3	41	7	14	30
Skylights or Atriums .....	189	6	24	28	2	80	1	10	6	10	22
Daylighting Sensors .....	60	2	8	9	(*)	23	(*)	4	Q	4	7
Specular Reflectors .....	436	15	57	61	7	175	3	33	10	24	52
Electronic Ballasts .....	732	27	98	99	12	275	5	77	16	39	85
Energy Management and Control System (EMCS) For Lighting .....	91	3	14	13	1	37	(*)	4	Q	6	10
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)</b>											
Heating .....	566	21	75	77	10	210	4	56	14	30	68
Cooling .....	595	22	82	81	10	221	4	58	13	32	71
Lighting .....	588	24	79	75	9	203	5	78	12	30	73
Office Equipment .....	211	9	31	28	4	76	1	24	4	8	27
<b>Annual Consumption (kilowatthours)</b>											
10,000 or Less .....	4	(*)	(*)	(*)	(*)	1	(*)	1	(*)	(*)	1
10,001 to 50,000 .....	45	2	6	3	1	16	(*)	7	1	1	8
50,001 to 100,000 .....	52	2	6	4	1	16	(*)	10	1	2	8
100,001 to 500,000 .....	209	10	25	21	5	67	3	43	4	8	24
500,001 to 1,000,000 .....	97	4	15	13	3	34	1	12	2	4	10
1,000,001 to 5,000,000 .....	269	10	36	42	4	102	1	23	5	16	29
Over 5,000,000 .....	214	5	28	29	2	99	1	8	6	12	24

**Table E5. Electricity Consumption (kWh) by End Use for Non-Mall Buildings, 2003**

	Total Electricity Consumption (billion kWh)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	890	34	116	113	15	335	6	104	19	43	105
<b>Provider of Purchased Electricity (more than one may apply)</b>											
Local Utility .....	791	30	102	100	14	295	6	96	16	38	94
Some Other Provider .....	90	3	13	12	1	36	(*)	7	Q	5	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. In the 1999 CBECS, malls represented 9.7 percent of total electricity consumption.

<sup>a</sup> Totals in the "Electricity" and "Electricity Secondary" rows have been revised and values do not match published values in consumption Table C13 ([http://www.eia.doe.gov/emeu/cbecs/cbecs2003/detailed\\_tables\\_2003/detailed\\_tables\\_2003.html](http://www.eia.doe.gov/emeu/cbecs/cbecs2003/detailed_tables_2003/detailed_tables_2003.html)).

(\*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

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

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



**Table E6. Electricity Consumption (kWh) Intensities by End Use for Non-Mall Buildings, 2003**

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
<b>Building Floorspace (Square Feet)</b>											
1,001 to 5,000 .....	17.8	0.9	2.0	0.8	0.5	4.3	0.3	6.3	0.4	0.5	1.8
5,001 to 10,000 .....	12.4	0.6	1.6	0.8	0.3	3.9	0.2	2.6	0.3	0.4	1.7
10,001 to 25,000 .....	10.5	0.5	1.2	1.1	0.2	3.9	0.1	1.4	0.2	0.5	1.4
25,001 to 50,000 .....	12.2	0.5	1.9	1.8	0.3	4.2	0.1	1.2	0.2	0.6	1.5
50,001 to 100,000 .....	13.1	0.5	1.9	2.1	0.2	5.1	0.1	1.0	0.2	0.6	1.5
100,001 to 200,000 .....	15.7	0.5	2.0	2.6	0.2	6.3	(*)	0.8	Q	1.0	1.8
200,001 to 500,000 .....	15.0	0.3	2.1	2.2	0.2	6.7	0.1	0.4	0.3	0.8	1.8
Over 500,000 .....	19.0	0.4	2.3	2.8	0.1	9.0	0.1	0.6	0.4	1.2	2.1
<b>Principal Building Activity</b>											
Education .....	11.0	0.5	2.2	2.5	0.3	3.4	(*)	0.5	0.1	1.0	0.6
Food Sales .....	49.4	1.5	2.9	1.8	Q	10.9	0.6	28.2	0.5	0.4	2.4
Food Service .....	38.4	1.8	5.0	4.3	1.8	7.5	2.4	12.3	0.3	0.3	2.6
Health Care .....	22.9	0.5	3.1	3.9	0.2	9.7	0.1	0.8	0.3	0.9	3.3
Inpatient .....	27.5	0.5	3.8	5.9	0.3	11.7	0.1	0.6	0.3	1.0	3.2
Outpatient .....	16.1	0.7	2.1	1.0	0.1	6.6	(*)	1.0	0.4	0.8	3.5
Lodging .....	13.5	0.8	1.4	0.8	0.7	7.1	0.1	0.7	Q	0.4	1.4
Retail (Other Than Mall).....	14.3	0.4	1.7	1.1	0.1	7.5	(*)	1.5	0.2	0.3	1.5
Office .....	17.3	0.8	2.4	1.5	0.2	6.8	(*)	0.8	0.8	1.8	2.2
Public Assembly .....	12.5	0.4	2.6	4.7	(*)	2.0	(*)	0.7	Q	0.2	1.7
Public Order and Safety .....	15.3	0.5	2.1	2.8	0.9	4.8	(*)	0.9	0.2	0.4	2.7
Religious Worship .....	4.9	0.2	0.8	0.4	(*)	1.3	(*)	0.5	(*)	0.1	1.4
Service .....	11.0	0.4	1.1	1.8	(*)	4.6	Q	0.6	0.1	0.2	2.1
Warehouse and Storage .....	7.6	0.2	0.4	0.6	0.1	4.1	Q	1.1	0.1	0.1	0.9
Other .....	22.5	0.4	2.7	1.8	0.1	10.1	Q	1.8	Q	0.9	3.7
Vacant .....	2.4	0.1	0.2	0.2	Q	0.7	Q	0.1	Q	(*)	1.1
<b>Year Constructed</b>											
Before 1920 .....	7.1	0.2	0.5	0.9	Q	2.7	0.1	1.3	0.2	0.3	0.9
1920 to 1945 .....	9.2	0.2	0.7	1.3	0.1	4.0	0.1	1.1	0.1	0.4	1.3
1946 to 1959 .....	9.9	0.4	1.1	1.5	0.2	3.7	0.1	1.1	0.2	0.5	1.2
1960 to 1969 .....	11.9	0.4	1.6	1.8	0.2	4.1	(*)	1.4	0.2	0.7	1.4
1970 to 1979 .....	15.9	0.7	2.0	2.1	0.3	6.1	0.1	1.6	0.3	0.8	1.9
1980 to 1989 .....	18.1	0.8	2.6	1.9	0.3	6.8	0.1	1.9	0.4	1.1	2.1
1990 to 1999 .....	16.7	0.6	2.4	2.1	0.3	6.0	0.2	2.1	0.4	0.8	1.9
2000 to 2003 .....	16.2	0.5	2.5	1.8	0.2	6.4	0.2	2.1	0.2	0.5	1.8
<b>Census Region and Division</b>											
Northeast .....	11.5	0.5	0.8	1.5	0.1	4.7	0.1	1.3	0.3	0.7	1.5
New England .....	10.8	0.5	0.6	1.2	0.2	4.2	0.1	1.9	0.2	0.6	1.3
Middle Atlantic .....	11.7	0.4	0.9	1.6	0.1	4.9	(*)	1.2	0.3	0.7	1.5
Midwest .....	12.9	0.8	0.9	1.8	0.2	5.0	0.1	1.6	0.3	0.6	1.7
East North Central .....	13.5	0.7	0.9	2.0	0.2	5.4	0.1	1.5	0.3	0.7	1.8
West North Central .....	11.7	0.9	1.0	1.4	0.2	4.3	0.1	1.6	0.2	0.5	1.5
South .....	16.5	0.4	3.1	2.0	0.4	5.8	0.2	2.0	0.2	0.7	1.7
South Atlantic .....	17.4	0.5	3.0	2.1	0.5	6.3	0.2	2.1	0.3	0.9	1.7
East South Central .....	15.5	0.5	2.1	2.0	0.3	5.8	Q	2.2	0.2	0.5	1.9
West South Central .....	15.3	0.3	3.8	1.8	0.2	5.0	0.1	1.7	0.2	0.5	1.6
West .....	13.8	0.5	1.8	1.6	0.2	5.3	0.1	1.4	0.5	0.7	1.7
Mountain .....	15.4	0.6	2.0	1.9	0.2	6.3	Q	1.5	Q	0.7	1.8
Pacific .....	13.0	0.4	1.6	1.5	0.2	4.8	0.1	1.4	Q	0.8	1.7

**Table E6. Electricity Consumption (kWh) Intensities by End Use for Non-Mall Buildings, 2003**

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
<b>Climate Zone: 30-Year Average</b>											
Under 2,000 CDD and --											
More than 7,000 HDD .....	11.5	0.6	0.6	1.7	0.2	4.4	0.1	1.7	0.2	0.5	1.5
5,500-7,000 HDD .....	13.1	0.8	0.9	1.7	0.2	5.3	0.1	1.5	0.3	0.7	1.7
4,000-5,499 HDD .....	14.6	0.6	1.5	1.8	0.2	5.9	0.1	1.6	0.5	0.8	1.7
Fewer than 4,000 HDD .....	14.5	0.3	2.2	1.8	0.3	5.3	0.1	1.8	0.3	0.6	1.7
2,000 CDD or More and --											
Fewer than 4,000 HDD .....	17.3	0.3	4.7	2.0	0.4	5.4	0.1	1.7	0.2	0.9	1.7
<b>Number of Floors</b>											
One .....	13.4	0.6	1.8	1.3	0.3	4.5	0.1	2.7	0.2	0.4	1.5
Two .....	12.6	0.5	1.6	1.8	0.3	4.7	0.1	1.3	0.3	0.6	1.6
Three .....	11.4	0.5	1.3	1.6	0.2	4.5	0.1	0.9	0.3	0.6	1.5
Four to Nine .....	17.3	0.5	2.4	2.9	0.2	7.0	0.1	0.7	0.4	1.2	2.1
Ten or More .....	19.4	0.6	2.5	2.2	0.2	9.0	0.1	0.5	0.6	1.5	2.3
<b>Elevators and Escalators (more than one may apply)</b>											
Any Elevators .....	17.0	0.6	2.3	2.6	0.2	7.0	0.1	0.6	0.5	1.1	2.0
Number of Elevators.....											
One .....	12.8	0.5	1.7	2.2	0.2	4.8	(*)	0.7	0.3	0.8	1.5
Two to Five .....	17.0	0.6	2.3	2.6	0.2	6.8	(*)	0.6	0.5	1.2	2.0
Six or More .....	22.5	0.5	3.2	3.3	0.2	10.0	0.1	0.5	0.6	1.5	2.7
Any Escalators .....	24.1	0.6	3.9	3.7	0.2	9.9	Q	0.5	Q	1.4	2.7
<b>Number of Workers (main shift)</b>											
Fewer than 5 .....	7.7	0.4	0.8	0.6	0.2	2.5	0.1	1.9	0.1	0.1	1.2
5 to 9 .....	11.8	0.6	1.5	1.0	0.3	3.7	0.2	2.7	0.2	0.3	1.5
10 to 19 .....	11.4	0.6	1.5	1.1	0.3	3.9	0.2	2.0	0.2	0.3	1.3
20 to 49 .....	14.0	0.5	1.9	1.9	0.3	5.1	0.1	1.8	0.4	0.6	1.6
50 to 99 .....	14.9	0.6	2.0	2.5	0.3	5.6	0.1	1.4	0.3	0.7	1.5
100 to 249 .....	19.6	0.7	2.9	2.9	0.4	8.0	0.1	1.2	0.4	1.1	2.1
250 or More .....	22.4	0.6	2.9	3.1	0.2	9.6	0.1	0.7	0.6	1.9	2.6
<b>Weekly Operating Hours</b>											
Fewer than 40 .....	4.5	0.3	0.9	0.4	0.1	1.1	(*)	0.6	(*)	0.1	1.1
40 to 48 .....	10.1	0.6	1.7	1.1	0.2	3.4	(*)	0.8	0.3	0.6	1.5
49 to 60 .....	11.2	0.4	1.5	1.3	0.1	4.3	(*)	0.9	0.3	0.6	1.6
61 to 84 .....	14.1	0.5	1.8	1.9	0.2	5.2	0.1	1.8	0.3	0.7	1.6
85 to 167 .....	22.1	0.7	2.3	3.3	0.4	7.0	0.4	5.0	0.2	0.9	1.9
Open Continuously .....	21.2	0.7	2.6	2.7	0.5	9.3	0.1	1.7	0.5	0.9	2.1
<b>Ownership and Occupancy</b>											
Nongovernment Owned.....	14.0	0.6	1.7	1.4	0.2	5.5	0.1	1.9	0.3	0.6	1.7
Owner Occupied .....	13.6	0.5	1.7	1.4	0.2	5.3	0.1	1.7	0.4	0.6	1.7
Nonowner Occupied .....	15.2	0.7	1.8	1.4	0.3	5.9	0.2	2.3	0.3	0.6	1.7
Unoccupied .....	1.9	Q	Q	(*)	Q	0.5	(*)	Q	Q	Q	0.9
Government Owned .....	14.1	0.5	2.2	3.1	0.3	4.7	0.1	0.7	0.2	0.9	1.5
Federal .....	19.7	0.3	1.9	3.6	0.1	9.5	(*)	0.5	0.2	0.8	2.8
State .....	15.8	0.2	2.0	4.1	0.2	4.8	(*)	0.7	0.2	1.6	1.9
Local .....	12.3	0.6	2.4	2.6	0.3	3.7	0.1	0.7	0.2	0.6	1.2
<b>Vacancy Status</b>											
Completely Vacant .....	1.8	Q	Q	(*)	Q	0.5	Q	Q	Q	Q	0.9
Mostly Vacant .....	13.8	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant .....	13.8	0.6	1.8	1.6	0.2	5.8	0.1	0.7	0.3	1.0	1.8
Not At All Vacant .....	14.6	0.5	1.9	1.9	0.3	5.3	0.1	1.9	0.3	0.6	1.6

**Table E6. Electricity Consumption (kWh) Intensities by End Use for Non-Mall Buildings, 2003**

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
<b>Number of Establishments</b>											
One .....	14.1	0.5	1.8	1.8	0.3	5.2	0.1	1.9	0.3	0.6	1.6
2 to 5 .....	13.5	0.4	1.8	1.7	0.1	5.3	0.1	1.3	0.3	0.6	1.7
6 to 10 .....	17.3	0.8	2.2	2.1	0.2	6.5	(*)	0.7	0.4	2.4	2.0
11 to 20 .....	14.7	0.8	2.2	1.8	0.1	5.6	(*)	Q	0.3	1.0	2.0
More than 20 .....	19.6	0.6	3.2	2.5	0.2	8.0	(*)	0.5	0.6	1.7	2.3
Currently Unoccupied .....	1.8	Q	Q	(*)	Q	0.5	Q	Q	Q	Q	0.9
<b>Predominant Exterior Wall Material</b>											
Brick, Stone or Stucco .....	13.7	0.5	1.9	1.9	0.3	4.8	0.1	1.6	0.3	0.7	1.6
Concrete (Block or Poured) .....	14.5	0.5	2.0	1.7	0.2	5.5	0.1	2.0	0.3	0.5	1.6
Concrete Panels .....	18.3	0.4	2.3	2.1	0.2	8.5	0.1	1.0	0.5	1.3	2.0
Siding or Shingles .....	11.0	0.7	1.2	1.0	0.3	3.6	0.1	2.1	0.3	0.4	1.3
Metal Panels .....	11.8	0.5	1.0	1.4	0.1	4.8	Q	1.8	0.1	0.4	1.7
Window Glass .....	19.1	0.9	3.0	2.1	0.3	7.2	(*)	0.6	0.6	1.8	2.6
Other .....	16.7	0.9	2.5	1.7	0.1	6.7	0.2	1.1	0.4	1.1	1.9
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Predominant Roof Material</b>											
Built-Up .....	14.7	0.4	2.0	1.9	0.2	5.7	0.1	1.5	0.3	0.8	1.7
Shingles (Not Wood) .....	12.3	0.6	1.5	1.2	0.4	4.0	0.1	2.3	0.3	0.4	1.5
Metal Surfacing .....	10.2	0.5	1.2	1.2	0.2	3.9	Q	1.2	0.1	0.3	1.4
Synthetic or Rubber .....	17.7	0.7	2.3	2.5	0.2	6.6	0.1	1.8	0.4	1.1	2.0
Slate or Tile .....	12.5	0.5	1.9	1.3	0.2	4.1	0.2	2.0	0.2	0.5	1.5
Wooden Materials .....	12.2	0.7	1.9	1.3	0.3	4.7	(*)	1.4	0.2	0.4	1.3
Concrete .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	20.4	0.2	2.9	1.6	Q	11.0	Q	1.7	0.1	0.6	2.0
No One Major Type .....	10.4	Q	1.4	1.9	Q	3.2	Q	Q	0.2	Q	1.4
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>											
<b>Any Type of Renovation</b>											
Since 1980 .....	13.0	0.5	1.4	1.9	0.2	5.0	0.1	1.5	0.3	0.7	1.5
Addition or Annex .....	14.1	0.6	1.6	2.5	0.2	5.4	0.1	1.4	0.2	0.6	1.6
Reduction In Floorspace .....	15.2	0.5	1.5	2.6	0.2	6.4	0.1	0.7	0.3	0.9	2.0
Cosmetic Improvements .....	13.5	0.5	1.4	1.9	0.2	5.2	0.1	1.6	0.3	0.8	1.5
Wall or Roof Replacement .....	12.6	0.4	1.4	1.9	0.2	5.1	0.1	1.0	0.2	0.8	1.4
<b>Interior Wall</b>											
Re-Configuration .....	13.8	0.5	1.5	2.1	0.2	5.6	0.1	1.1	0.3	0.8	1.7
HVAC Equipment Upgrade.....	14.4	0.6	1.6	2.2	0.2	5.6	0.1	1.2	0.3	0.9	1.6
Lighting Upgrade .....	13.6	0.5	1.4	2.1	0.2	5.3	0.1	1.4	0.3	0.8	1.6
Window Replacement .....	11.7	0.4	1.1	1.7	0.2	4.7	0.1	1.2	0.2	0.8	1.4
Plumbing System Upgrade .....	12.9	0.4	1.3	2.1	0.2	5.3	0.1	1.0	0.2	0.8	1.5
Insulation Upgrade .....	12.7	0.4	1.5	2.2	0.2	4.7	0.1	1.1	0.2	0.8	1.5
Other Renovation .....	9.0	0.4	0.6	1.3	Q	4.0	0.1	1.0	0.1	0.3	1.1
No Renovations Since 1980.....	10.5	0.4	1.3	1.4	0.2	4.0	0.1	1.3	0.2	0.4	1.4
Building Newer than 1980 .....	17.1	0.7	2.5	2.0	0.3	6.4	0.1	2.0	0.4	0.9	1.9
<b>Energy Sources (more than one may apply)</b>											
Electricity .....	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
Natural Gas .....	14.6	0.4	1.8	2.0	0.2	5.7	0.1	1.6	0.3	0.7	1.7
Fuel Oil .....	16.5	0.6	2.1	2.3	0.2	7.0	0.1	0.8	0.5	1.0	2.0
District Heat .....	18.0	0.2	1.3	3.7	0.2	7.9	(*)	0.6	0.2	1.6	2.3
District Chilled Water .....	19.7	0.2	1.6	5.0	0.2	7.0	0.1	0.8	0.3	2.1	2.4
Propane .....	14.0	0.4	1.5	1.7	0.2	5.8	0.1	2.1	0.2	0.4	1.7
Other .....	16.4	0.4	1.6	3.0	0.1	6.4	0.1	1.4	Q	0.8	2.1

**Table E6. Electricity Consumption (kWh) Intensities by End Use for Non-Mall Buildings, 2003**

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
<b>Space-Heating Energy Sources</b>											
Electricity .....	15.9	1.2	2.3	1.6	0.4	5.9	0.1	1.7	0.4	0.7	1.7
Electricity Main .....	16.6	1.7	2.8	1.3	0.5	5.6	0.1	2.0	0.4	0.7	1.6
Electricity Secondary .....	15.1	0.5	1.7	2.0	0.2	6.2	0.1	1.2	0.4	0.8	1.9
Other Excluding Electricity .....	13.0	(*)	1.4	2.1	0.1	5.1	0.1	1.6	0.2	0.7	1.7
Buildings without Heating .....	8.2	(*)	1.8	0.7	0.1	2.6	0.1	1.7	0.1	0.2	1.0
<b>Primary Space-Heating Energy Source</b>											
Electricity .....	16.6	1.7	2.8	1.3	0.5	5.6	0.1	2.0	0.4	0.7	1.6
Natural Gas .....	13.9	0.2	1.7	1.9	0.2	5.5	0.1	1.6	0.3	0.7	1.8
Fuel Oil .....	5.9	0.1	0.4	1.0	0.1	2.2	(*)	1.0	0.1	0.3	0.7
District Heat .....	18.5	0.1	1.2	3.9	0.2	8.1	(*)	0.6	0.3	1.6	2.4
Propane .....	10.5	0.2	1.1	1.3	0.2	2.7	Q	2.9	Q	Q	1.5
Other .....	12.6	0.1	0.8	1.5	0.1	6.0	(*)	1.8	0.2	Q	1.8
<b>Cooling Energy Source</b>											
Electricity .....	15.0	0.6	2.1	1.8	0.3	5.6	0.1	1.8	0.3	0.7	1.7
Other Excluding Electricity .....	17.5	Q	(*)	4.7	0.2	7.0	(*)	0.7	0.3	2.3	2.1
Buildings without Cooling .....	4.8	0.2	(*)	0.7	(*)	2.2	(*)	0.6	(*)	0.1	0.9
<b>Water-Heating Energy Source</b>											
Electricity .....	14.6	0.8	2.1	1.5	0.6	5.2	0.1	1.7	0.3	0.7	1.7
Other Excluding Electricity .....	15.4	0.4	1.9	2.3	(*)	6.0	0.1	1.8	0.3	0.8	1.8
Bldgs without Water Heating .....	6.2	0.2	0.7	0.6	(*)	2.7	Q	0.8	0.1	0.1	1.0
<b>Cooking Energy Source</b>											
Electricity .....	18.9	0.8	2.6	2.8	0.5	6.5	0.5	2.3	0.3	0.8	1.7
Other Excluding Electricity .....	17.1	0.5	2.5	2.5	0.3	6.2	(*)	2.6	0.3	0.6	1.7
Buildings without Cooking .....	11.8	0.5	1.5	1.3	0.2	4.7	(*)	1.2	0.3	0.7	1.6
<b>Energy End Uses (more than one may apply)</b>											
Buildings with Space Heating ....	14.4	0.6	1.8	1.8	0.3	5.4	0.1	1.6	0.3	0.7	1.7
Buildings with Cooling .....	15.1	0.6	2.0	1.9	0.3	5.6	0.1	1.8	0.3	0.8	1.7
Buildings with Water Heating .....	15.0	0.6	2.0	1.9	0.3	5.6	0.1	1.7	0.3	0.8	1.7
Buildings with Cooking .....	18.2	0.7	2.5	2.7	0.4	6.4	0.3	2.4	0.3	0.7	1.7
Buildings with Manufacturing .....	13.2	0.4	0.9	1.6	Q	6.0	Q	0.9	0.2	0.6	2.3
Buildings with Electricity Generation .....	20.3	0.7	2.7	3.0	0.3	8.4	0.1	1.0	0.6	1.3	2.4
<b>Percent of Floorspace Heated</b>											
Not Heated .....	8.2	(*)	1.8	0.7	0.1	2.6	0.1	1.7	0.1	0.2	1.0
1 to 50 .....	8.0	0.2	0.6	0.8	0.2	3.0	Q	1.7	Q	0.2	1.1
51 to 99 .....	14.3	0.5	1.8	1.8	0.2	5.5	0.1	2.0	0.2	0.6	1.6
100 .....	15.4	0.6	2.0	2.0	0.3	5.8	0.1	1.6	0.3	0.8	1.8
<b>Percent of Floorspace Cooled</b>											
Not Cooled .....	4.8	0.2	(*)	0.7	(*)	2.2	(*)	0.6	(*)	0.1	0.9
1 to 50 .....	7.8	0.3	0.4	1.0	0.1	3.5	Q	1.1	0.1	0.2	1.1
51 to 99 .....	16.5	0.7	2.1	2.2	0.2	6.1	0.1	2.3	0.3	0.8	1.8
100 .....	18.8	0.7	3.0	2.3	0.4	6.8	0.2	1.9	0.5	1.0	2.1

**Table E6. Electricity Consumption (kWh) Intensities by End Use for Non-Mall Buildings, 2003**

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
<b>Percent Lit When Open</b>											
Zero .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	6.5	0.3	0.9	0.8	0.2	1.8	0.1	0.8	Q	0.2	1.1
51 to 99 .....	14.3	0.5	1.9	2.0	0.3	5.3	0.1	1.4	0.3	0.9	1.7
100 .....	17.0	0.6	2.2	2.1	0.3	6.7	0.1	2.1	0.3	0.8	1.8
Building Never Open/ Electricity Not Used .....	2.1	Q	0.2	0.1	Q	0.6	Q	0.1	Q	Q	1.0
<b>Percent Lit When Closed</b>											
Zero .....	9.2	0.4	1.2	1.2	0.1	2.9	0.1	1.2	0.2	0.5	1.4
1 to 50 .....	13.3	0.5	1.8	1.7	0.2	4.6	0.1	1.7	0.3	0.7	1.6
51 to 100 .....	21.7	0.8	2.2	2.0	0.3	10.4	0.2	3.4	0.2	0.6	1.5
Building Never Closed/ Electricity Not Used .....	21.2	0.7	2.6	2.7	0.5	9.3	0.1	1.7	0.5	0.9	2.1
<b>Heating Equipment (more than one may apply)</b>											
Heat Pumps .....	17.4	0.9	2.9	1.8	0.4	6.7	0.1	1.5	0.4	0.8	1.8
Packaged Heat Pumps .....	19.3	1.0	3.3	1.8	0.4	7.6	0.1	1.8	0.5	0.9	2.0
Split-System Heat Pumps .....	15.4	0.7	2.7	2.1	0.4	5.7	Q	1.3	0.2	0.5	1.7
Individual Room Heat Pumps ..	16.1	0.9	2.8	1.8	0.5	6.5	0.1	0.8	0.2	0.9	1.6
Furnaces .....	11.4	0.5	1.2	1.3	0.2	4.3	0.1	1.8	0.2	0.4	1.4
Individual Space Heaters .....	13.2	0.9	1.4	1.5	0.3	5.3	0.1	1.4	0.2	0.6	1.5
District Heat .....	18.0	0.1	1.2	3.8	0.2	7.9	(*)	0.6	0.3	1.6	2.3
Boilers .....	14.5	0.4	1.8	2.4	0.2	5.8	0.1	0.8	0.3	0.8	1.8
Packaged Heating Units .....	17.2	0.8	2.5	1.9	0.3	6.2	0.2	2.2	0.4	0.8	1.8
Other .....	15.2	0.9	1.9	1.8	0.3	5.8	0.1	1.7	0.2	0.7	1.8
<b>Cooling Equipment (more than one may apply)</b>											
Residential-Type Central											
Air Conditioners .....	12.1	0.5	1.6	1.8	0.3	4.2	0.1	1.6	0.2	0.4	1.5
Heat Pumps .....	17.7	0.8	3.0	1.8	0.4	6.8	0.1	1.8	0.4	0.8	1.9
Packaged Heat Pumps .....	19.4	1.0	3.2	1.7	0.4	7.7	0.1	1.9	0.5	0.9	2.0
Split-System Heat Pumps .....	15.7	0.6	2.7	2.1	0.4	5.6	Q	1.5	0.2	0.6	1.8
Individual Room Heat Pumps ..	17.1	0.8	3.0	1.9	0.5	6.8	0.1	1.1	0.3	0.8	1.7
Individual Air Conditioners .....	11.2	0.5	1.5	1.5	0.3	4.6	0.1	1.0	0.2	0.4	1.2
District Chilled Water .....	19.7	0.2	1.6	5.0	0.2	7.0	0.1	0.8	0.3	2.1	2.4
Central Chillers .....	21.1	0.6	3.1	3.5	0.3	8.5	0.1	0.7	0.6	1.3	2.5
Packaged Air Conditioning											
Units .....	15.4	0.6	2.1	1.7	0.3	5.8	0.1	2.0	0.3	0.7	1.7
Swamp Coolers .....	14.1	0.4	1.6	1.7	0.4	5.3	0.2	2.3	0.2	0.4	1.7
Other .....	18.0	0.6	2.7	2.5	0.1	6.8	0.1	Q	0.3	0.9	1.9
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>											
Heating .....	12.8	0.6	1.6	1.5	0.3	4.6	0.1	1.5	0.3	0.7	1.6
Cooling .....	13.6	0.6	1.7	1.7	0.3	5.1	0.1	1.5	0.3	0.8	1.6
<b>Water Heating Equipment</b>											
Centralized System .....	14.9	0.6	1.9	1.9	0.3	5.3	0.1	2.1	0.3	0.7	1.7
Distributed System .....	12.3	0.5	1.9	1.4	0.2	4.6	0.1	1.3	0.2	0.6	1.5
Combination of Centralized and Distributed System .....	18.6	0.6	2.5	2.5	0.3	7.7	0.1	1.0	0.5	1.2	2.0

**Table E6. Electricity Consumption (kWh) Intensities by End Use for Non-Mall Buildings, 2003**

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
<b>Lighting Equipment Types (more than one may apply)</b>											
Incandescent .....	15.3	0.6	2.0	2.0	0.3	6.1	0.1	1.5	0.3	0.8	1.7
Standard Fluorescent .....	14.5	0.5	1.9	1.9	0.2	5.4	0.1	1.7	0.3	0.7	1.7
Compact Fluorescent .....	17.7	0.6	2.3	2.5	0.3	6.9	0.1	1.5	0.4	0.9	2.0
High Intensity Discharge .....	16.0	0.5	1.9	2.4	0.2	6.7	0.1	1.2	0.3	0.9	1.8
Halogen .....	17.7	0.7	2.2	2.3	0.3	7.5	0.1	1.6	0.4	0.8	1.9
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Refrigeration Equipment (more than one may apply)</b>											
Any Refrigeration.....	15.3	0.6	2.0	1.9	0.3	5.7	0.1	2.0	0.3	0.8	1.7
Commercial Refrigeration .....	19.6	0.7	2.6	2.6	0.3	7.1	0.2	3.1	0.3	0.8	1.9
Walk-In Units .....	21.5	0.7	2.8	2.9	0.4	7.8	0.3	3.6	0.3	0.8	1.9
Cases or Cabinets .....	20.7	0.7	2.8	2.7	0.3	7.5	0.2	3.4	0.3	0.8	1.9
Residential-Type Units .....	13.3	0.5	1.8	1.8	0.2	5.1	0.1	1.2	0.3	0.7	1.6
Vending Machines .....	16.5	0.6	2.2	2.3	0.3	6.5	0.1	1.5	0.4	0.9	1.8
No Refrigeration .....	7.5	0.3	1.1	1.0	0.1	3.2	Q	(*)	0.1	0.3	1.4
<b>Office Equipment (more than one may apply)</b>											
Computers .....	15.0	0.6	2.0	1.9	0.3	5.7	0.1	1.6	0.3	0.8	1.7
With Flat Screen Monitors .....	17.6	0.6	2.4	2.5	0.2	6.8	0.1	1.2	0.5	1.2	2.1
Dedicated Servers .....	16.4	0.6	2.2	2.3	0.2	6.4	0.1	1.3	0.5	1.0	1.9
Laser Printers .....	13.8	0.6	1.8	1.8	0.2	5.1	0.1	1.6	0.3	0.7	1.6
Inkjet Printers .....	16.6	0.6	2.3	2.2	0.3	6.5	0.1	1.4	0.4	0.9	1.9
FAX Machines .....	15.1	0.6	2.0	2.0	0.2	5.8	0.1	1.5	0.3	0.8	1.7
Photocopiers .....	15.0	0.5	2.0	2.1	0.2	5.9	0.1	1.2	0.4	0.9	1.7
<b>Number of Computers</b>											
None .....	7.6	0.3	0.8	0.5	0.2	2.5	0.1	2.1	(*)	(*)	1.1
1 to 4 .....	12.4	0.6	1.4	1.1	0.3	3.9	0.2	3.1	0.1	0.1	1.4
5 to 9 .....	11.2	0.6	1.6	1.1	0.2	4.1	0.1	1.6	0.2	0.3	1.4
10 to 19 .....	12.6	0.5	1.7	1.5	0.2	4.8	0.1	1.8	0.2	0.4	1.6
20 to 49 .....	16.1	0.5	2.1	2.2	0.3	6.3	Q	1.5	Q	0.6	2.0
50 to 99 .....	14.1	0.5	2.1	2.1	0.3	5.9	(*)	0.6	0.3	0.8	1.6
100 to 249 .....	16.1	0.7	2.4	2.7	0.3	6.2	(*)	0.7	0.3	1.1	1.8
250 or More .....	21.2	0.6	2.8	3.2	0.2	8.6	0.1	0.6	0.7	2.1	2.3
<b>Number of Dedicated Servers</b>											
None .....	10.9	0.4	1.4	1.1	0.2	3.8	0.1	2.1	0.1	0.3	1.4
1 to 4 .....	14.2	0.6	1.9	1.9	0.2	5.5	0.1	1.6	0.2	0.6	1.6
5 to 9 .....	19.0	0.6	2.8	3.0	0.3	7.6	Q	0.9	0.5	1.3	2.1
10 to 19 .....	20.9	0.5	2.4	3.4	0.2	8.1	(*)	1.1	0.5	2.2	2.4
20 to 49 .....	20.7	0.5	3.6	2.9	0.2	8.0	0.1	0.6	0.7	1.6	2.4
50 or More .....	23.4	0.7	2.1	2.4	0.2	9.8	Q	0.7	2.3	2.3	2.7
<b>Number of Photocopiers</b>											
None .....	11.6	0.6	1.3	1.0	0.3	3.7	0.2	2.9	0.1	0.2	1.4
One .....	11.2	0.5	1.4	1.3	0.2	4.2	0.1	1.7	0.2	0.3	1.4
2 to 4 .....	13.7	0.5	1.9	2.0	0.2	5.3	0.1	1.2	0.4	0.7	1.6
5 to 9 .....	17.2	0.6	2.4	2.8	0.2	6.5	(*)	0.8	0.4	1.6	2.0
10 or More .....	21.2	0.6	3.0	3.0	0.2	9.0	0.1	0.6	0.7	1.6	2.4

**Table E6. Electricity Consumption (kWh) Intensities by End Use for Non-Mall Buildings, 2003**

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
<b>Energy-Related Space Functions (more than one may apply)</b>											
Commercial Food Preparation....	18.2	0.7	2.5	2.7	0.4	6.4	0.3	2.4	0.3	0.7	1.7
Activities with Large Amounts of Hot Water .....	17.6	0.7	2.4	2.6	0.4	7.0	0.2	1.5	0.3	0.8	1.8
Separate Computer Area .....	16.9	0.6	2.4	2.5	0.3	6.7	0.1	0.9	0.5	1.1	1.8
<b>HVAC Conservation Features (more than one may apply)</b>											
Variable Air-Volume System.....	19.0	0.7	2.7	2.6	0.3	7.5	0.1	1.1	0.5	1.3	2.3
Economizer Cycle .....	19.5	0.7	2.5	2.9	0.3	7.7	0.1	1.3	0.5	1.3	2.2
HVAC Maintenance .....	15.5	0.6	2.1	2.1	0.3	5.9	0.1	1.6	0.3	0.8	1.8
Energy Management and Control System (EMCS) .....	17.9	0.6	2.7	3.0	0.3	6.9	0.1	0.8	0.5	1.1	2.0
<b>Window and Interior Lighting Features (more than one may apply)</b>											
Multipaned Windows .....	15.3	0.7	1.8	2.0	0.3	5.9	0.1	1.7	0.3	0.7	1.8
Tinted Window Glass .....	16.6	0.5	2.3	2.2	0.2	6.6	0.1	1.3	0.4	0.9	2.0
Reflective Window Glass .....	17.9	0.7	2.6	2.4	0.3	7.3	0.1	1.1	0.4	1.0	2.1
External Overhangs or Awnings .....	16.4	0.6	2.0	2.1	0.3	5.8	0.2	2.4	0.4	0.8	1.7
Skylights or Atriums .....	15.1	0.5	1.9	2.2	0.2	6.4	0.1	0.8	0.5	0.8	1.8
Daylighting Sensors .....	21.1	0.6	2.9	3.0	0.2	8.1	0.1	1.3	Q	1.2	2.4
Specular Reflectors .....	16.7	0.6	2.2	2.3	0.3	6.7	0.1	1.3	0.4	0.9	2.0
Electronic Ballasts .....	15.6	0.6	2.1	2.1	0.3	5.9	0.1	1.6	0.3	0.8	1.8
Energy Management and Control System (EMCS) For Lighting .....	19.1	0.6	2.9	2.7	0.3	7.6	0.1	0.9	Q	1.2	2.1
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)</b>											
Heating .....	13.2	0.5	1.8	1.8	0.2	4.9	0.1	1.3	0.3	0.7	1.6
Cooling .....	13.8	0.5	1.9	1.9	0.2	5.1	0.1	1.3	0.3	0.8	1.6
Lighting .....	12.5	0.5	1.7	1.6	0.2	4.3	0.1	1.7	0.2	0.6	1.6
Office Equipment .....	10.9	0.4	1.6	1.5	0.2	3.9	0.1	1.2	0.2	0.4	1.4
<b>Annual Consumption (kilowatthours)</b>											
10,000 or Less .....	1.3	(*)	0.1	0.1	(*)	0.4	(*)	0.2	(*)	(*)	0.4
10,001 to 50,000 .....	4.9	0.2	0.6	0.3	0.1	1.7	(*)	0.7	0.1	0.1	0.9
50,001 to 100,000 .....	8.0	0.4	1.0	0.6	0.2	2.5	0.1	1.6	0.2	0.3	1.2
100,001 to 500,000 .....	13.0	0.6	1.5	1.3	0.3	4.2	0.2	2.7	0.2	0.5	1.5
500,001 to 1,000,000 .....	14.4	0.6	2.2	1.9	0.4	5.0	0.1	1.9	0.2	0.6	1.5
1,000,001 to 5,000,000 .....	20.3	0.7	2.8	3.2	0.3	7.7	0.1	1.7	0.4	1.2	2.2
Over 5,000,000 .....	24.7	0.5	3.2	3.3	0.2	11.4	0.1	0.9	0.7	1.4	2.8

**Table E6. Electricity Consumption (kWh) Intensities by End Use for Non-Mall Buildings, 2003**

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings*</b> .....	14.1	0.5	1.8	1.8	0.2	5.3	0.1	1.6	0.3	0.7	1.7
<b>Provider of Purchased Electricity (more than one may apply)</b>											
Local Utility .....	13.7	0.5	1.8	1.7	0.2	5.1	0.1	1.7	0.3	0.7	1.6
Some Other Provider .....	18.3	0.5	2.6	2.5	0.2	7.2	0.1	1.5	Q	1.0	2.1

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. In the 1999 CBECS, malls represented 9.7 percent of total electricity consumption.

(\*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

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

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



**Table E7. Natural Gas Consumption (Btu) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total Natural Gas Consumption (trillion Btu)					Natural Gas Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	1,928	1,316	332	142	137	44.3	30.3	7.6	3.3	3.2
<b>Building Floorspace (Square Feet)</b>										
1,001 to 5,000 .....	250	155	35	41	18	81.1	50.4	11.5	13.4	5.9
5,001 to 10,000 .....	209	143	32	30	Q	56.5	38.8	8.7	8.2	Q
10,001 to 25,000 .....	309	248	32	22	8	43.9	35.1	4.6	3.1	1.1
25,001 to 50,000 .....	258	188	41	12	Q	42.7	31.1	6.8	2.0	Q
50,001 to 100,000 .....	244	174	43	8	19	36.5	26.0	6.4	1.2	2.9
100,001 to 200,000 .....	249	170	56	7	16	37.5	25.6	8.4	1.0	2.5
200,001 to 500,000 .....	205	134	44	11	16	36.1	23.5	7.7	2.0	2.9
Over 500,000 .....	204	105	49	11	40	44.3	22.7	10.7	2.4	8.6
<b>Principal Building Activity</b>										
Education .....	268	207	37	5	19	38.1	29.5	5.2	0.7	2.7
Food Sales .....	39	27	2	8	Q	51.7	35.6	3.2	11.2	Q
Food Service .....	203	54	56	91	Q	145.6	39.0	40.0	65.4	Q
Health Care .....	243	136	74	10	23	95.3	53.6	28.9	3.8	9.1
Inpatient .....	204	103	71	9	21	113.2	56.8	39.4	5.2	11.9
Outpatient .....	38	34	3	Q	Q	51.8	45.6	3.5	Q	Q
Lodging .....	215	64	124	14	Q	50.4	15.0	29.2	3.3	Q
Retail (Other Than Mall).....	91	84	3	3	2	31.9	29.3	1.0	0.9	0.7
Office .....	269	230	13	3	23	32.8	28.1	1.6	0.3	2.8
Public Assembly .....	102	92	2	3	Q	37.5	33.8	0.9	1.0	Q
Public Order and Safety .....	29	15	10	Q	Q	45.0	24.1	15.1	Q	Q
Religious Worship .....	82	77	2	3	Q	31.2	29.1	0.9	1.0	Q
Service .....	139	119	2	Q	17	55.8	47.8	0.9	Q	Q
Warehouse and Storage .....	132	111	4	Q	Q	24.1	20.2	0.7	Q	Q
Other .....	87	72	2	Q	12	69.7	57.9	1.7	Q	9.4
Vacant .....	28	26	Q	Q	Q	23.7	22.0	Q	Q	Q
<b>Year Constructed</b>										
Before 1920 .....	143	114	12	15	Q	51.9	41.2	4.4	5.5	Q
1920 to 1945 .....	229	150	24	18	37	49.0	32.0	5.1	3.9	8.0
1946 to 1959 .....	216	159	34	11	13	46.5	34.0	7.3	2.3	2.7
1960 to 1969 .....	255	187	45	10	13	45.3	33.1	8.0	1.8	2.4
1970 to 1979 .....	351	244	68	22	17	45.9	31.9	8.9	2.8	2.2
1980 to 1989 .....	291	180	68	21	23	45.0	27.8	10.5	3.3	3.5
1990 to 1999 .....	314	204	54	30	26	38.4	25.0	6.7	3.6	3.1
2000 to 2003 .....	127	79	26	15	6	36.9	23.0	7.7	4.3	1.9
<b>Census Region and Division</b>										
Northeast .....	428	310	49	30	39	46.6	33.8	5.3	3.3	4.2
New England .....	75	59	Q	Q	5	51.1	40.5	4.5	2.9	Q
Middle Atlantic .....	353	251	42	26	34	45.8	32.5	5.4	3.4	4.4
Midwest .....	705	555	80	29	41	53.5	42.1	6.1	2.2	3.1
East North Central .....	528	424	60	20	24	55.2	44.3	6.3	2.1	2.5
West North Central .....	177	131	20	8	Q	49.1	36.5	5.5	2.4	4.8
South .....	474	263	123	58	31	35.6	19.8	9.2	4.3	2.3
South Atlantic .....	217	115	56	28	18	34.2	18.1	8.9	4.4	2.9
East South Central .....	102	66	25	6	5	44.6	29.1	11.0	2.6	2.0
West South Central .....	156	83	42	24	8	33.2	17.6	8.8	5.1	1.7
West .....	320	187	81	25	27	41.0	24.0	10.3	3.2	3.5
Mountain .....	167	120	33	4	Q	59.7	42.9	12.0	1.4	Q
Pacific .....	153	68	47	21	17	30.6	13.5	9.4	4.3	3.4

**Table E7. Natural Gas Consumption (Btu) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total Natural Gas Consumption (trillion Btu)					Natural Gas Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	1,928	1,316	332	142	137	44.3	30.3	7.6	3.3	3.2
<b>Climate Zone: 30-Year Average</b>										
Under 2,000 CDD and --										
More than 7,000 HDD .....	431	356	46	15	15	56.4	46.5	6.0	2.0	2.0
5,500-7,000 HDD .....	679	511	92	36	39	52.8	39.8	7.2	2.8	3.1
4,000-5,499 HDD .....	337	214	52	28	43	41.5	26.3	6.5	3.4	5.3
Fewer than 4,000 HDD .....	358	193	91	41	32	34.1	18.4	8.7	3.9	3.1
2,000 CDD or More and --										
Fewer than 4,000 HDD .....	122	42	51	22	8	28.1	9.7	11.6	5.1	1.8
<b>Number of Floors</b>										
One .....	664	471	91	71	30	44.4	31.5	6.1	4.8	2.0
Two .....	491	366	60	27	37	42.9	32.0	5.3	2.4	3.2
Three .....	241	178	38	13	11	42.5	31.4	6.8	2.4	1.9
Four to Nine .....	378	233	91	20	35	49.3	30.3	11.8	2.6	4.5
Ten or More .....	154	68	52	10	25	41.0	18.0	13.8	2.6	6.6
<b>Number of Workers (main shift)</b>										
Fewer than 5 .....	272	213	25	15	19	38.8	30.4	3.5	2.2	2.6
5 to 9 .....	198	136	32	26	Q	48.5	33.2	7.8	6.4	Q
10 to 19 .....	242	166	37	34	5	45.5	31.3	6.9	6.4	1.0
20 to 49 .....	395	280	58	31	25	48.1	34.2	7.1	3.8	3.0
50 to 99 .....	241	167	46	12	16	39.2	27.1	7.5	1.9	2.6
100 to 249 .....	235	161	49	8	16	45.8	31.5	9.6	1.6	3.0
250 or More .....	344	192	85	15	53	45.6	25.4	11.2	2.0	7.0
<b>Weekly Operating Hours</b>										
Fewer than 40 .....	107	94	Q	4	3	32.9	28.9	Q	1.3	0.8
40 to 48 .....	249	220	11	6	13	36.1	31.8	1.5	0.8	1.8
49 to 60 .....	374	304	26	18	26	36.7	29.8	2.6	1.8	2.6
61 to 84 .....	314	231	30	30	23	42.1	30.9	4.0	4.1	3.1
85 to 167 .....	257	161	36	45	15	49.2	30.7	7.0	8.7	2.8
Open Continuously .....	626	306	224	38	58	60.1	29.4	21.5	3.7	5.5
<b>Ownership and Occupancy</b>										
Nongovernment Owned.....	1,503	995	274	131	103	45.1	29.9	8.2	3.9	3.1
Owner Occupied .....	708	506	106	42	53	42.8	30.6	6.4	2.5	3.2
Nonowner Occupied .....	779	472	168	89	50	49.0	29.7	10.6	5.6	3.1
Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned .....	425	321	58	11	35	41.9	31.7	5.7	1.1	3.4
Federal .....	35	27	4	Q	2	32.4	24.9	4.0	Q	2.0
State .....	98	76	11	2	10	40.4	31.0	4.6	0.8	3.9
Local .....	291	219	43	7	23	43.9	33.0	6.4	1.1	3.5
<b>Vacancy Status</b>										
Completely Vacant .....	18	17	(*)	Q	Q	19.4	18.5	0.1	Q	Q
Mostly Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant .....	318	231	41	15	31	37.6	27.3	4.9	1.8	3.7
Not At All Vacant .....	1,582	1,059	291	127	105	46.7	31.3	8.6	3.7	3.1
<b>Number of Establishments</b>										
One .....	1,462	971	275	118	98	47.9	31.8	9.0	3.9	3.2
2 to 5 .....	307	231	41	18	16	40.4	30.5	5.5	2.4	2.1
6 to 10 .....	48	38	5	Q	Q	35.4	27.9	3.7	1.7	Q
11 to 20 .....	34	26	Q	Q	Q	27.0	20.7	3.4	0.7	Q
More than 20 .....	58	32	7	2	Q	32.4	17.9	3.7	1.1	Q
Currently Unoccupied .....	18	17	(*)	Q	Q	19.4	18.5	0.1	Q	Q

**Table E7. Natural Gas Consumption (Btu) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total Natural Gas Consumption (trillion Btu)					Natural Gas Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	1,928	1,316	332	142	137	44.3	30.3	7.6	3.3	3.2
<b>Predominant Exterior Wall Material</b>										
Brick, Stone or Stucco .....	1,127	750	204	93	80	47.9	31.8	8.6	4.0	3.4
Concrete (Block or Poured) .....	351	242	62	22	24	47.9	33.0	8.5	3.1	3.3
Concrete Panels .....	180	126	Q	8	16	38.4	26.9	6.2	1.8	3.5
Siding or Shingles .....	85	55	18	10	2	42.7	27.7	9.2	4.9	1.0
Metal Panels .....	130	106	7	5	12	32.4	26.3	1.8	1.2	3.0
Window Glass .....	14	10	2	Q	Q	20.8	13.8	3.6	Q	Q
Other .....	35	23	9	2	Q	38.8	26.0	10.0	1.7	Q
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Predominant Roof Material</b>										
Built-Up .....	743	489	138	47	68	48.8	32.2	9.1	3.1	4.5
Shingles (Not Wood) .....	310	213	52	29	Q	47.6	32.7	8.0	4.5	Q
Metal Surfacing .....	194	151	15	14	14	33.6	26.1	2.6	2.4	2.5
Synthetic or Rubber .....	542	378	96	32	36	45.8	31.9	8.1	2.7	3.1
Slate or Tile .....	67	41	16	9	Q	42.3	25.7	9.9	6.0	Q
Wooden Materials .....	21	11	7	Q	(*)	39.8	21.7	Q	Q	0.4
Concrete .....	24	11	6	Q	Q	Q	Q	Q	4.5	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type .....	16	12	1	Q	Q	43.3	31.8	3.5	Q	Q
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>										
Any Type of Renovation										
Since 1980 .....	684	474	118	40	52	51.5	35.7	8.9	3.0	3.9
Addition or Annex .....	304	202	65	13	24	60.4	40.2	12.9	2.6	4.8
Reduction In Floorspace .....	52	34	11	2	4	53.5	35.5	11.7	2.5	3.8
Cosmetic Improvements .....	497	344	84	33	37	49.3	34.1	8.3	3.2	3.7
Wall or Roof Replacement .....	278	197	46	13	22	44.0	31.2	7.3	2.0	3.5
Interior Wall										
Re-Configuration .....	342	243	56	14	28	48.7	34.6	7.9	2.1	4.0
HVAC Equipment Upgrade.....	467	316	88	24	39	55.1	37.2	10.4	2.9	4.6
Lighting Upgrade .....	397	286	65	21	25	49.0	35.3	8.0	2.6	3.1
Window Replacement .....	242	179	37	10	16	48.5	35.8	7.4	2.0	3.2
Plumbing System Upgrade .....	287	198	48	17	24	50.2	34.6	8.4	2.9	4.3
Insulation Upgrade .....	132	95	18	9	9	44.5	32.3	6.1	3.1	3.0
Other Renovation .....	26	16	Q	Q	Q	59.1	35.9	Q	Q	Q
No Renovations Since 1980.....	512	379	66	36	31	42.3	31.3	5.4	3.0	2.6
Building Newer than 1980 .....	732	463	149	66	55	40.5	25.6	8.2	3.6	3.0
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	1,927	1,316	332	142	137	44.3	30.3	7.6	3.3	3.2
Natural Gas .....	1,928	1,316	332	142	137	44.3	30.3	7.6	3.3	3.2
Fuel Oil .....	507	281	145	27	53	48.8	27.1	14.0	2.6	5.1
District Heat .....	47	24	10	7	6	19.2	9.9	4.1	2.7	2.5
District Chilled Water .....	35	20	8	Q	Q	19.8	11.5	4.7	Q	Q
Propane .....	106	64	27	6	9	43.0	25.9	10.8	2.6	3.8
Other .....	47	33	9	2	Q	52.3	36.7	10.0	1.7	Q
<b>Space-Heating Energy Source</b>										
Natural Gas .....	1,803	1,316	270	98	118	48.8	35.6	7.3	2.7	3.2
Natural Gas Main .....	1,687	1,250	240	86	111	51.2	37.9	7.3	2.6	3.4
Natural Gas Secondary .....	116	66	30	12	8	29.1	16.6	7.5	3.1	1.9
Other Excluding Natural Gas .....	106	(*)	57	38	11	17.7	(*)	9.5	6.4	1.8
Buildings without Heating .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

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**Table E7. Natural Gas Consumption (Btu) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total Natural Gas Consumption (trillion Btu)					Natural Gas Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	1,928	1,316	332	142	137	44.3	30.3	7.6	3.3	3.2
<b>Primary Space-Heating Energy Source</b>										
Electricity .....	177	48	79	36	13	28.6	7.8	12.8	5.9	2.2
Natural Gas .....	1,687	1,250	240	86	111	51.2	37.9	7.3	2.6	3.4
Fuel Oil .....	20	8	3	Q	Q	Q	Q	Q	4.9	Q
District Heat .....	23	Q	6	6	3	10.9	Q	Q	3.0	Q
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Cooling Energy Source</b>										
Natural Gas .....	92	38	15	2	37	90.3	37.6	14.8	1.9	36.0
Other Excluding Natural Gas .....	1,729	1,197	305	136	91	43.2	29.9	7.6	3.4	2.3
Buildings without Cooling .....	107	81	12	4	Q	43.7	33.0	5.0	1.6	Q
<b>Water-Heating Energy Source</b>										
Natural Gas .....	1,509	963	332	105	108	52.4	33.4	11.5	3.7	3.7
Other Excluding Natural Gas .....	361	299	(*)	36	26	29.3	24.3	(*)	2.9	2.1
Bldgs without Water Heating .....	57	54	(*)	Q	Q	24.6	23.1	(*)	Q	Q
<b>Cooking Energy Source</b>										
Natural Gas .....	856	422	232	142	61	55.5	27.3	15.0	9.2	3.9
Other Excluding Natural Gas .....	141	107	22	(*)	11	43.7	33.4	6.8	(*)	3.5
Buildings without Cooking .....	931	787	78	(*)	65	37.5	31.7	3.2	(*)	2.6
<b>Energy End Uses (more than one may apply)</b>										
Buildings with Space Heating .....	1,909	1,316	328	137	129	44.4	30.6	7.6	3.2	3.0
Buildings with Cooling .....	1,821	1,235	320	138	127	44.4	30.1	7.8	3.4	3.1
Buildings with Water Heating .....	1,870	1,262	332	142	134	45.5	30.7	8.1	3.4	3.3
Buildings with Cooking .....	997	529	254	142	72	53.4	28.4	13.6	7.6	3.9
Buildings with Manufacturing .....	100	63	4	Q	30	43.6	27.2	1.9	Q	13.2
Buildings with Electricity Generation .....	534	293	141	19	81	51.3	28.2	13.6	1.8	7.8
<b>Percent of Floorspace Heated</b>										
Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	97	64	9	9	15	24.3	16.0	2.2	2.3	3.8
51 to 99 .....	268	174	47	26	Q	44.9	29.2	8.0	4.3	Q
100 .....	1,544	1,077	272	102	94	46.8	32.6	8.2	3.1	2.8
<b>Percent of Floorspace Cooled</b>										
Not Cooled .....	107	81	12	4	Q	43.7	33.0	5.0	1.6	Q
1 to 50 .....	452	371	26	16	38	37.2	30.6	2.2	1.4	3.1
51 to 99 .....	451	297	82	40	32	46.4	30.5	8.4	4.1	3.3
100 .....	918	567	212	82	57	47.9	29.6	11.1	4.3	3.0
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	224	109	75	17	24	40.3	19.7	13.5	3.0	4.2
Packaged Heat Pumps .....	140	65	51	11	Q	42.0	19.4	15.3	3.2	Q
Split-System Heat Pumps .....	42	24	11	Q	Q	29.0	16.4	7.9	Q	Q
Individual Room Heat Pumps .....	84	40	31	6	7	38.1	18.1	14.1	2.7	3.2
Furnaces .....	673	500	87	50	36	44.0	32.6	5.7	3.3	2.4
Individual Space Heaters .....	379	270	61	16	32	42.3	30.2	6.8	1.8	3.6
District Heat .....	39	18	10	7	Q	17.1	7.9	4.3	2.8	Q
Boilers .....	1,040	709	197	44	89	57.2	39.0	10.8	2.4	4.9
Packaged Heating Units .....	582	383	115	54	30	42.7	28.1	8.4	4.0	2.2
Other .....	47	39	5	2	3	26.3	21.4	2.5	0.9	1.4

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**Table E7. Natural Gas Consumption (Btu) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total Natural Gas Consumption (trillion Btu)					Natural Gas Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	1,928	1,316	332	142	137	44.3	30.3	7.6	3.3	3.2
<b>Cooling Equipment (more than one may apply)</b>										
Residential-Type Central										
Air Conditioners .....	391	269	57	36	29	49.0	33.7	7.2	4.5	3.7
Heat Pumps .....	234	119	74	18	24	40.1	20.3	12.7	3.1	4.0
Packaged Heat Pumps .....	145	71	50	11	Q	43.4	21.3	14.9	3.2	Q
Split-System Heat Pumps .....	45	25	11	Q	Q	29.9	16.8	7.6	Q	Q
Individual Room Heat Pumps ..	85	41	31	6	7	35.8	17.3	13.0	2.5	3.0
Individual Air Conditioners .....	410	280	92	16	22	45.0	30.8	10.1	1.8	2.4
District Chilled Water .....	35	20	8	Q	Q	19.8	11.5	4.7	Q	Q
Central Chillers .....	501	296	121	18	66	55.0	32.5	13.3	2.0	7.3
Packaged Air Conditioning										
Units .....	1,090	763	171	88	67	45.8	32.1	7.2	3.7	2.8
Swamp Coolers .....	81	48	19	7	Q	63.6	38.1	14.7	5.4	Q
Other .....	52	33	Q	Q	3	64.8	41.3	Q	2.2	Q
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>										
Heating .....	605	427	104	36	38	49.3	34.8	8.5	2.9	3.1
Cooling .....	779	528	144	50	56	48.5	32.9	9.0	3.1	3.5
<b>Water Heating Equipment</b>										
Centralized System .....	1,226	822	220	106	78	48.4	32.4	8.7	4.2	3.1
Distributed System .....	254	201	20	21	13	33.7	26.6	2.6	2.7	1.7
Combination of Centralized and Distributed System .....	390	239	92	15	43	47.4	29.1	11.2	1.9	5.2
<b>Energy-Related Space Functions (more than one may apply)</b>										
Commercial Food Preparation....	996	529	254	142	71	53.4	28.4	13.6	7.6	3.8
Activities with Large Amounts of Hot Water .....	931	498	254	97	83	58.1	31.1	15.8	6.1	5.1
Separate Computer Area .....	875	589	169	36	81	42.4	28.6	8.2	1.7	3.9
<b>HVAC Conservation Features (more than one may apply)</b>										
Variable Air-Volume System.....	710	455	140	40	75	48.6	31.2	9.6	2.7	5.2
Economizer Cycle .....	805	543	154	39	70	48.3	32.6	9.3	2.3	4.2
HVAC Maintenance .....	1,659	1,114	308	120	117	44.9	30.1	8.3	3.3	3.2
Energy Management and Control System (EMCS) .....	477	312	93	21	51	41.1	26.9	8.0	1.8	4.4
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)</b>										
Heating .....	1,292	903	200	94	95	41.4	29.0	6.4	3.0	3.1
Cooling .....	1,288	882	203	105	98	41.0	28.1	6.4	3.3	3.1
Lighting .....	1,250	968	106	100	77	40.2	31.1	3.4	3.2	2.5
Office Equipment .....	476	380	38	28	30	37.6	30.0	3.0	2.2	2.3

**Table E7. Natural Gas Consumption (Btu) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total Natural Gas Consumption (trillion Btu)					Natural Gas Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	1,928	1,316	332	142	137	44.3	30.3	7.6	3.3	3.2
<b>Annual Consumption (hundred cubic feet)</b>										
1,000 or Less .....	37	30	4	1	Q	8.4	7.0	1.0	0.3	Q
1,001 to 5,000 .....	249	206	23	16	4	25.6	21.2	2.4	1.6	0.4
5,001 to 10,000 .....	247	174	34	31	8	39.4	27.7	5.5	5.0	1.2
10,001 to 25,000 .....	360	239	61	42	18	46.3	30.7	7.8	5.4	2.3
25,001 to 50,000 .....	293	199	45	26	22	52.9	36.0	8.2	4.7	4.0
50,001 to 100,000 .....	218	144	40	8	26	54.8	36.3	10.0	2.0	6.5
Over 100,000 .....	525	324	125	17	59	89.4	55.1	21.3	2.9	10.1
<b>Provider of Natural Gas (more than one may apply)</b>										
Local Utility .....	1,631	1,120	278	133	99	42.5	29.2	7.2	3.5	2.6
Some Other Provider .....	389	256	76	13	44	61.0	40.2	11.9	2.0	6.8

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. In the 1999 CBECS, malls represented 3.8 percent of total natural gas consumption.

(\*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

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

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

**Table E8. Natural Gas Consumption (cubic feet) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total Natural Gas Consumption (billion cubic feet)					Natural Gas Energy Intensity (cubic feet/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	1,870	1,276	322	138	133	43.0	29.4	7.4	3.2	3.1
<b>Building Floorspace (Square Feet)</b>										
1,001 to 5,000 .....	243	151	34	40	18	78.7	48.9	11.1	13.0	5.7
5,001 to 10,000 .....	202	139	31	29	Q	54.8	37.6	8.5	7.9	Q
10,001 to 25,000 .....	300	240	31	21	7	42.5	34.1	4.4	3.0	1.1
25,001 to 50,000 .....	250	182	40	11	Q	41.5	30.2	6.6	1.9	Q
50,001 to 100,000 .....	236	169	41	8	19	35.4	25.2	6.2	1.2	2.8
100,001 to 200,000 .....	241	165	54	7	16	36.3	24.8	8.1	1.0	2.4
200,001 to 500,000 .....	199	130	42	11	16	35.0	22.8	7.5	1.9	2.8
Over 500,000 .....	198	101	48	11	38	43.0	22.0	10.4	2.3	8.3
<b>Principal Building Activity</b>										
Education .....	260	201	36	5	18	36.9	28.6	5.1	0.7	2.6
Food Sales .....	37	26	2	8	Q	50.2	34.5	3.1	10.9	Q
Food Service .....	197	53	54	89	Q	141.2	37.8	38.8	63.5	Q
Health Care .....	235	132	71	9	22	92.5	51.9	28.1	3.7	8.8
Inpatient .....	198	99	69	9	21	109.8	55.1	38.2	5.0	11.5
Outpatient .....	37	33	2	Q	Q	50.2	44.3	3.4	Q	Q
Lodging .....	208	62	121	14	Q	48.9	14.6	28.3	3.2	Q
Retail (Other Than Mall).....	89	81	3	2	2	30.9	28.4	1.0	0.8	0.7
Office .....	261	223	13	2	22	31.8	27.2	1.6	0.3	2.7
Public Assembly .....	99	89	2	3	Q	36.4	32.8	0.9	1.0	Q
Public Order and Safety .....	28	15	9	Q	Q	43.7	23.3	14.7	Q	Q
Religious Worship .....	80	74	2	3	Q	30.3	28.3	0.9	1.0	Q
Service .....	135	116	2	Q	17	54.1	46.3	0.9	Q	Q
Warehouse and Storage .....	128	108	4	Q	Q	23.4	19.6	0.7	Q	Q
Other .....	85	70	2	Q	11	67.6	56.1	1.6	Q	9.1
Vacant .....	27	25	Q	Q	Q	23.0	21.3	Q	Q	Q
<b>Year Constructed</b>										
Before 1920 .....	139	110	12	15	Q	50.3	39.9	4.3	5.3	Q
1920 to 1945 .....	223	145	23	18	36	47.6	31.1	5.0	3.8	7.7
1946 to 1959 .....	210	154	33	11	12	45.1	33.0	7.1	2.3	2.6
1960 to 1969 .....	248	181	44	10	13	44.0	32.1	7.8	1.8	2.3
1970 to 1979 .....	341	237	66	21	17	44.5	30.9	8.7	2.8	2.2
1980 to 1989 .....	282	174	66	21	22	43.7	26.9	10.1	3.2	3.4
1990 to 1999 .....	305	198	53	29	25	37.2	24.2	6.5	3.5	3.0
2000 to 2003 .....	123	77	26	14	6	35.8	22.3	7.5	4.1	1.8
<b>Census Region and Division</b>										
Northeast .....	415	301	47	29	38	45.2	32.8	5.1	3.2	4.1
New England .....	73	58	Q	Q	4	49.5	39.3	4.4	2.8	Q
Middle Atlantic .....	343	243	41	25	33	44.4	31.6	5.3	3.3	4.3
Midwest .....	683	538	78	28	40	51.9	40.9	5.9	2.1	3.0
East North Central .....	512	411	58	20	23	53.5	42.9	6.1	2.1	2.4
West North Central .....	171	127	19	8	Q	47.6	35.4	5.4	2.3	4.6
South .....	460	255	119	56	30	34.6	19.2	8.9	4.2	2.2
South Atlantic .....	210	111	54	27	18	33.2	17.6	8.6	4.2	2.8
East South Central .....	99	64	24	6	4	43.3	28.2	10.6	2.5	1.9
West South Central .....	151	80	40	23	8	32.2	17.0	8.6	5.0	1.6
West .....	311	182	78	24	26	39.8	23.3	10.0	3.1	3.3
Mountain .....	162	116	32	4	Q	57.9	41.6	11.6	1.3	Q
Pacific .....	149	66	46	21	17	29.7	13.1	9.2	4.1	3.3

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**Table E8. Natural Gas Consumption (cubic feet) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total Natural Gas Consumption (billion cubic feet)					Natural Gas Energy Intensity (cubic feet/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	1,870	1,276	322	138	133	43.0	29.4	7.4	3.2	3.1
<b>Climate Zone: 30-Year Average</b>										
Under 2,000 CDD and --										
More than 7,000 HDD .....	418	345	44	15	15	54.7	45.1	5.8	1.9	1.9
5,500-7,000 HDD .....	659	496	90	35	38	51.3	38.6	7.0	2.7	3.0
4,000-5,499 HDD .....	327	207	51	27	42	40.3	25.5	6.3	3.3	5.1
Fewer than 4,000 HDD .....	347	187	89	40	31	33.0	17.8	8.4	3.8	3.0
2,000 CDD or More and --										
Fewer than 4,000 HDD .....	119	41	49	21	7	27.3	9.4	11.3	4.9	1.7
<b>Number of Floors</b>										
One .....	644	457	88	69	29	43.1	30.6	5.9	4.6	2.0
Two .....	476	355	59	26	36	41.6	31.1	5.1	2.3	3.1
Three .....	234	173	37	13	11	41.2	30.5	6.6	2.3	1.9
Four to Nine .....	367	226	88	20	34	47.9	29.4	11.5	2.6	4.4
Ten or More .....	149	66	50	9	24	39.8	17.5	13.3	2.5	6.4
<b>Number of Workers (main shift)</b>										
Fewer than 5 .....	264	207	24	15	18	37.6	29.5	3.4	2.1	2.6
5 to 9 .....	192	132	31	25	Q	47.1	32.2	7.6	6.2	Q
10 to 19 .....	235	161	36	33	5	44.2	30.3	6.7	6.2	0.9
20 to 49 .....	383	272	57	30	24	46.6	33.1	6.9	3.7	2.9
50 to 99 .....	234	162	45	11	16	38.0	26.3	7.3	1.8	2.5
100 to 249 .....	228	156	48	8	15	44.4	30.5	9.4	1.6	2.9
250 or More .....	334	186	82	15	51	44.2	24.6	10.9	1.9	6.8
<b>Weekly Operating Hours</b>										
Fewer than 40 .....	104	91	Q	4	3	31.9	28.1	Q	1.3	0.8
40 to 48 .....	242	213	10	6	12	35.0	30.9	1.5	0.8	1.8
49 to 60 .....	363	295	25	17	25	35.6	28.9	2.5	1.7	2.5
61 to 84 .....	305	224	29	29	23	40.8	30.0	3.8	3.9	3.0
85 to 167 .....	249	156	35	44	14	47.7	29.8	6.8	8.4	2.7
Open Continuously .....	607	297	217	37	56	58.3	28.5	20.8	3.6	5.4
<b>Ownership and Occupancy</b>										
Nongovernment Owned.....	1,458	965	266	127	100	43.7	29.0	8.0	3.8	3.0
Owner Occupied .....	686	491	103	41	52	41.5	29.7	6.2	2.5	3.1
Nonowner Occupied .....	756	458	163	86	48	47.6	28.8	10.3	5.4	3.0
Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned .....	412	312	56	10	34	40.6	30.7	5.6	1.0	3.3
Federal .....	34	26	4	Q	2	31.4	24.2	3.9	Q	2.0
State .....	95	73	11	2	9	39.1	30.1	4.5	0.8	3.8
Local .....	283	212	41	7	22	42.6	32.0	6.2	1.1	3.3
<b>Vacancy Status</b>										
Completely Vacant .....	18	17	(*)	Q	Q	18.8	18.0	0.1	Q	Q
Mostly Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant .....	308	224	40	14	30	36.5	26.5	4.7	1.7	3.5
Not At All Vacant .....	1,534	1,027	282	123	102	45.3	30.4	8.3	3.6	3.0
<b>Number of Establishments</b>										
One .....	1,418	942	267	115	95	46.5	30.9	8.7	3.8	3.1
2 to 5 .....	298	224	40	18	15	39.2	29.5	5.3	2.3	2.0
6 to 10 .....	47	37	5	Q	Q	34.4	27.1	3.6	1.6	Q
11 to 20 .....	33	26	Q	Q	Q	26.2	20.1	3.3	0.7	Q
More than 20 .....	56	31	7	2	Q	31.4	17.3	3.6	1.1	Q
Currently Unoccupied .....	18	17	(*)	Q	Q	18.8	18.0	0.1	Q	Q



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**Table E8. Natural Gas Consumption (cubic feet) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total Natural Gas Consumption (billion cubic feet)					Natural Gas Energy Intensity (cubic feet/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	1,870	1,276	322	138	133	43.0	29.4	7.4	3.2	3.1
<b>Predominant Exterior Wall Material</b>										
Brick, Stone or Stucco .....	1,093	728	197	91	78	46.4	30.9	8.4	3.8	3.3
Concrete (Block or Poured) .....	340	234	60	22	23	46.4	32.0	8.3	3.0	3.2
Concrete Panels .....	174	122	Q	8	16	37.3	26.1	6.0	1.7	3.4
Siding or Shingles .....	83	54	18	9	2	41.4	26.9	8.9	4.7	1.0
Metal Panels .....	126	103	7	5	12	31.4	25.5	1.7	1.2	2.9
Window Glass .....	14	9	2	Q	Q	20.2	13.4	3.5	Q	Q
Other .....	34	23	9	1	Q	37.6	25.2	9.7	1.6	Q
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Predominant Roof Material</b>										
Built-Up .....	720	475	134	46	66	47.4	31.2	8.8	3.0	4.4
Shingles (Not Wood) .....	301	207	51	28	Q	46.1	31.7	7.8	4.3	Q
Metal Surfacing .....	188	147	14	14	14	32.6	25.4	2.5	2.3	2.4
Synthetic or Rubber .....	526	366	93	31	35	44.4	30.9	7.9	2.6	3.0
Slate or Tile .....	65	39	15	9	Q	41.1	25.0	9.6	5.8	Q
Wooden Materials .....	20	11	7	Q	(*)	38.6	21.0	Q	Q	0.4
Concrete .....	23	11	5	Q	Q	Q	Q	Q	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type .....	16	12	1	Q	Q	42.0	30.8	3.4	Q	Q
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>										
Any Type of Renovation										
Since 1980 .....	663	460	114	39	50	50.0	34.7	8.6	2.9	3.8
Addition or Annex .....	295	196	63	13	23	58.6	38.9	12.5	2.5	4.7
Reduction In Floorspace .....	50	33	11	2	4	51.8	34.4	11.4	2.4	3.7
Cosmetic Improvements .....	482	333	81	32	36	47.8	33.1	8.1	3.1	3.5
Wall or Roof Replacement .....	270	191	45	12	21	42.6	30.2	7.1	2.0	3.4
Interior Wall										
Re-Configuration .....	331	236	54	14	27	47.2	33.6	7.7	2.0	3.9
HVAC Equipment Upgrade.....	453	306	85	24	38	53.4	36.1	10.1	2.8	4.4
Lighting Upgrade .....	386	278	63	20	25	47.6	34.3	7.7	2.5	3.0
Window Replacement .....	235	174	36	10	16	47.0	34.7	7.2	2.0	3.1
Plumbing System Upgrade .....	278	192	47	16	24	48.7	33.5	8.1	2.8	4.1
Insulation Upgrade .....	128	93	17	9	9	43.1	31.3	5.9	3.0	2.9
Other Renovation .....	25	15	Q	Q	Q	57.4	34.8	Q	Q	Q
No Renovations Since 1980.....	497	368	64	35	30	41.0	30.3	5.3	2.9	2.5
Building Newer than 1980 .....	710	449	144	64	53	39.3	24.8	8.0	3.5	2.9
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	1,869	1,276	322	138	133	43.0	29.4	7.4	3.2	3.1
Natural Gas .....	1,870	1,276	322	138	133	43.0	29.4	7.4	3.2	3.1
Fuel Oil .....	492	273	141	27	51	47.3	26.3	13.6	2.6	4.9
District Heat .....	46	23	10	6	6	18.7	9.6	4.0	2.6	2.4
District Chilled Water .....	34	20	8	Q	Q	19.2	11.2	4.5	Q	Q
Propane .....	103	62	26	6	9	41.7	25.1	10.5	2.5	3.7
Other .....	46	32	9	1	Q	50.7	35.6	9.7	1.6	Q
<b>Space-Heating Energy Source<sup>a</sup></b>										
Natural Gas .....	1,749	1,276	262	95	115	47.3	34.5	7.1	2.6	3.1
Natural Gas Main .....	1,636	1,212	233	83	107	49.6	36.8	7.1	2.5	3.3
Natural Gas Secondary .....	112	64	29	12	7	28.2	16.1	7.3	3.0	1.9
Other Excluding Natural Gas .....	103	(*)	56	37	10	17.2	(*)	9.3	6.2	1.7
Buildings without Heating .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

Energy Information Administration

2003 Commercial Buildings Energy Consumption Survey: Energy End-Use Consumption Tables

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**Table E8. Natural Gas Consumption (cubic feet) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total Natural Gas Consumption (billion cubic feet)					Natural Gas Energy Intensity (cubic feet/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	1,870	1,276	322	138	133	43.0	29.4	7.4	3.2	3.1
<b>Primary Space-Heating Energy Source</b>										
Electricity .....	171	46	76	35	13	27.8	7.5	12.4	5.7	2.1
Natural Gas .....	1,636	1,212	233	83	107	49.6	36.8	7.1	2.5	3.3
Fuel Oil .....	20	8	3	Q	Q	Q	Q	Q	Q	Q
District Heat .....	22	Q	5	6	3	10.5	Q	Q	2.9	Q
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Cooling Energy Source</b>										
Natural Gas .....	89	37	15	2	36	87.6	36.5	14.3	1.9	34.9
Other Excluding Natural Gas .....	1,677	1,161	296	132	88	41.9	29.0	7.4	3.3	2.2
Buildings without Cooling .....	104	78	12	4	Q	42.4	32.0	4.9	1.6	Q
<b>Water-Heating Energy Source</b>										
Natural Gas .....	1,463	934	322	102	105	50.8	32.4	11.2	3.5	3.6
Other Excluding Natural Gas .....	350	290	(*)	35	25	28.5	23.5	(*)	2.8	2.1
Bldgs without Water Heating .....	56	52	(*)	Q	Q	23.9	22.4	(*)	Q	Q
<b>Cooking Energy Source</b>										
Natural Gas .....	830	409	225	138	59	53.8	26.5	14.6	8.9	3.8
Other Excluding Natural Gas .....	137	104	21	(*)	11	42.4	32.4	6.6	(*)	3.4
Buildings without Cooking .....	903	763	76	(*)	63	36.4	30.8	3.1	(*)	2.6
<b>Energy End Uses (more than one may apply)</b>										
Buildings with Space Heating ....	1,852	1,276	318	133	125	43.1	29.7	7.4	3.1	2.9
Buildings with Cooling .....	1,766	1,198	310	134	124	43.0	29.2	7.6	3.3	3.0
Buildings with Water Heating .....	1,814	1,224	322	137	130	44.1	29.8	7.8	3.3	3.2
Buildings with Cooking .....	967	513	246	138	70	51.8	27.5	13.2	7.4	3.7
Buildings with Manufacturing .....	97	61	4	Q	29	42.3	26.4	1.8	Q	12.8
Buildings with Electricity Generation .....	518	284	137	19	78	49.8	27.3	13.2	1.8	7.5
<b>Percent of Floorspace Heated</b>										
Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	94	62	9	9	15	23.5	15.6	2.2	2.2	3.6
51 to 99 .....	260	169	46	25	Q	43.6	28.4	7.7	4.2	Q
100 .....	1,498	1,045	263	99	91	45.4	31.7	8.0	3.0	2.8
<b>Percent of Floorspace Cooled</b>										
Not Cooled .....	104	78	12	4	Q	42.4	32.0	4.9	1.6	Q
1 to 50 .....	438	360	25	16	37	36.1	29.7	2.1	1.3	3.0
51 to 99 .....	438	288	79	38	32	45.0	29.6	8.2	3.9	3.2
100 .....	890	550	206	80	55	46.5	28.7	10.7	4.2	2.9
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	217	106	73	16	23	39.1	19.1	13.1	2.9	4.1
Packaged Heat Pumps .....	135	63	49	10	Q	40.8	18.8	14.9	3.1	Q
Split-System Heat Pumps .....	41	23	11	Q	Q	28.2	15.9	7.6	Q	Q
Individual Room Heat Pumps ..	81	39	30	6	7	37.0	17.6	13.7	2.6	3.1
Furnaces .....	653	485	85	48	35	42.7	31.7	5.5	3.2	2.3
Individual Space Heaters .....	368	262	59	15	31	41.0	29.3	6.6	1.7	3.5
District Heat .....	38	18	10	6	Q	16.6	7.6	4.2	2.8	Q
Boilers .....	1,009	688	191	43	87	55.5	37.9	10.5	2.4	4.8
Packaged Heating Units .....	564	371	111	52	29	41.4	27.3	8.2	3.8	2.2
Other .....	46	37	4	2	2	25.5	20.8	2.5	0.9	1.4

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**Table E8. Natural Gas Consumption (cubic feet) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total Natural Gas Consumption (billion cubic feet)					Natural Gas Energy Intensity (cubic feet/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	1,870	1,276	322	138	133	43.0	29.4	7.4	3.2	3.1
<b>Cooling Equipment (more than one may apply)</b>										
Residential-Type Central										
Air Conditioners .....	379	261	56	35	28	47.5	32.7	7.0	4.3	3.6
Heat Pumps .....	227	115	72	17	23	38.9	19.7	12.3	3.0	3.9
Packaged Heat Pumps .....	141	69	49	10	Q	42.1	20.6	14.5	3.1	Q
Split-System Heat Pumps .....	43	24	11	Q	Q	29.0	16.3	7.4	Q	Q
Individual Room Heat Pumps ..	83	40	30	6	7	34.7	16.8	12.6	2.4	2.9
Individual Air Conditioners .....	398	272	89	16	21	43.7	29.8	9.8	1.7	2.3
District Chilled Water .....	34	20	8	Q	Q	19.2	11.2	4.5	Q	Q
Central Chillers .....	486	287	117	17	64	53.4	31.5	12.9	1.9	7.1
Packaged Air Conditioning										
Units .....	1,057	740	166	86	65	44.4	31.1	7.0	3.6	2.7
Swamp Coolers .....	78	47	18	7	Q	61.7	36.9	14.3	5.3	Q
Other .....	51	32	Q	Q	3	62.8	40.1	Q	2.2	Q
<b>Main Equipment Replaced Since 1990 (more than one may apply)</b>										
Heating .....	587	414	101	35	37	47.8	33.7	8.2	2.9	3.0
Cooling .....	756	512	140	49	55	47.1	31.9	8.7	3.0	3.4
<b>Water Heating Equipment</b>										
Centralized System .....	1,189	797	214	103	76	46.9	31.4	8.4	4.0	3.0
Distributed System .....	247	195	19	20	13	32.7	25.8	2.5	2.6	1.7
Combination of Centralized and Distributed System .....	378	232	89	15	41	46.0	28.3	10.9	1.8	5.0
<b>Energy-Related Space Functions (more than one may apply)</b>										
Commercial Food Preparation....	966	513	246	138	69	51.8	27.5	13.2	7.4	3.7
Activities with Large Amounts of Hot Water .....	903	483	246	94	80	56.3	30.1	15.3	5.9	5.0
Separate Computer Area .....	849	571	164	35	79	41.2	27.7	7.9	1.7	3.8
<b>HVAC Conservation Features (more than one may apply)</b>										
Variable Air-Volume System.....	688	441	136	39	73	47.2	30.2	9.3	2.6	5.0
Economizer Cycle .....	781	526	149	37	68	46.9	31.6	9.0	2.2	4.1
HVAC Maintenance .....	1,609	1,081	298	117	113	43.5	29.2	8.1	3.2	3.1
Energy Management and Control System (EMCS) .....	463	303	90	21	49	39.8	26.1	7.8	1.8	4.3
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)</b>										
Heating .....	1,253	876	194	91	92	40.2	28.1	6.2	2.9	3.0
Cooling .....	1,249	856	197	101	95	39.7	27.2	6.3	3.2	3.0
Lighting .....	1,213	939	102	97	75	39.0	30.2	3.3	3.1	2.4
Office Equipment .....	462	369	37	28	29	36.5	29.1	2.9	2.2	2.3
<b>Annual Consumption (hundred cubic feet)</b>										
1,000 or Less .....	35	30	4	1	Q	8.2	6.8	0.9	0.3	Q
1,001 to 5,000 .....	242	200	23	15	4	24.8	20.5	2.3	1.6	0.4
5,001 to 10,000 .....	239	168	33	30	7	38.3	26.9	5.3	4.9	1.2
10,001 to 25,000 .....	349	232	59	41	17	44.9	29.8	7.6	5.3	2.2
25,001 to 50,000 .....	284	193	44	25	22	51.3	34.9	7.9	4.6	3.9
50,001 to 100,000 .....	211	140	38	8	25	53.2	35.3	9.7	1.9	6.3
Over 100,000 .....	510	314	121	17	58	86.8	53.5	20.6	2.8	9.8

**Table E8. Natural Gas Consumption (cubic feet) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total Natural Gas Consumption (billion cubic feet)					Natural Gas Energy Intensity (cubic feet/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	1,870	1,276	322	138	133	43.0	29.4	7.4	3.2	3.1
<b>Provider of Natural Gas (more than one may apply)</b>										
Local Utility .....	1,582	1,086	270	129	96	41.2	28.3	7.0	3.4	2.5
Some Other Provider .....	377	249	73	13	42	59.1	39.0	11.5	2.0	6.6

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/cbeecs>.

\* Figures in this table do not include enclosed malls and strip malls. In the 1999 CBECS, malls represented 3.8 percent of total natural gas consumption.

<sup>a</sup> Total natural gas energy intensity in the "Other Excluding Natural Gas" row has been revised and value does not match published value in consumption Table C24 ([http://www.eia.doe.gov/emeu/cbeecs/cbeecs2003/detailed\\_tables\\_2003/detailed\\_tables\\_2003.html](http://www.eia.doe.gov/emeu/cbeecs/cbeecs2003/detailed_tables_2003/detailed_tables_2003.html)).

(\*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

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

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

**Table E9. Fuel Oil Consumption (Btu) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total Fuel Oil Consumption (trillion Btu)					Fuel Oil Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	222	194	17	Q	10	14.7	12.8	1.1	Q	0.6
<b>Building Floorspace (Square Feet)</b>										
1,001 to 5,000 .....	34	32	Q	(*)	Q	57.4	52.7	Q	(*)	Q
5,001 to 10,000 .....	36	33	Q	(*)	Q	50.6	45.8	Q	0.1	Q
10,001 to 25,000 .....	27	25	1	(*)	Q	28.2	25.4	1.5	0.1	Q
25,001 to 50,000 .....	16	15	Q	(*)	1	19.7	18.8	Q	(*)	0.7
50,001 to 100,000 .....	26	23	1	Q	1	15.0	13.3	0.8	Q	0.6
100,001 to 200,000 .....	37	34	Q	Q	1	12.5	11.6	Q	Q	0.5
200,001 to 500,000 .....	36	25	Q	Q	2	10.5	7.5	2.4	Q	0.5
Over 500,000 .....	10	Q	Q	Q	2	2.4	Q	Q	Q	0.5
<b>Principal Building Activity</b>										
Education .....	47	45	2	Q	Q	25.4	23.9	0.8	Q	0.3
Food Sales .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Health Care .....	11	6	2	Q	2	5.6	3.3	0.8	Q	1.3
Inpatient .....	9	5	2	Q	2	5.3	2.9	0.9	Q	1.4
Outpatient .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Lodging .....	35	25	Q	(*)	1	16.1	11.2	Q	0.2	0.3
Retail (Other Than Mall).....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Office .....	18	15	Q	Q	1	4.3	3.8	Q	Q	0.4
Public Assembly .....	29	28	Q	(*)	Q	30.7	29.7	Q	(*)	Q
Public Order and Safety .....	8	6	Q	(*)	Q	Q	Q	Q	Q	Q
Religious Worship .....	18	18	Q	(*)	Q	39.8	39.3	Q	(*)	Q
Service .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Warehouse and Storage .....	9	Q	Q	(*)	Q	7.3	6.3	Q	0.1	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Year Constructed</b>										
Before 1920 .....	38	35	Q	(*)	Q	39.3	36.4	Q	0.2	Q
1920 to 1945 .....	54	44	9	Q	(*)	27.2	22.4	4.6	Q	0.2
1946 to 1959 .....	48	45	Q	(*)	Q	23.5	21.9	Q	(*)	Q
1960 to 1969 .....	Q	Q	Q	Q	Q	21.7	20.0	0.7	Q	0.5
1970 to 1979 .....	22	19	1	Q	2	10.2	8.7	0.6	Q	0.9
1980 to 1989 .....	9	6	1	Q	2	3.0	2.1	0.2	Q	0.7
1990 to 1999 .....	9	6	Q	Q	2	4.3	3.1	Q	Q	1.0
2000 to 2003 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Census Region and Division</b>										
Northeast .....	175	156	15	Q	4	28.8	25.6	2.4	Q	0.7
New England .....	69	64	4	(*)	1	44.1	40.8	2.8	0.1	Q
Middle Atlantic .....	106	91	Q	Q	4	23.5	20.3	Q	Q	0.8
Midwest .....	24	Q	1	Q	1	8.3	7.6	0.2	Q	0.5
East North Central .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
West North Central .....	Q	Q	Q	Q	Q	14.4	12.9	0.5	0.1	Q
South .....	14	10	Q	Q	3	3.5	2.4	Q	Q	0.7
South Atlantic .....	13	10	Q	Q	3	4.9	3.6	Q	Q	0.9
East South Central .....	1	(*)	(*)	(*)	(*)	2.7	1.2	(*)	1.0	0.5
West South Central .....	1	Q	Q	(*)	(*)	0.5	0.1	Q	(*)	0.3
West .....	9	Q	Q	Q	1	Q	Q	Q	Q	Q
Mountain .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Pacific .....	4	2	Q	(*)	1	2.7	1.4	Q	(*)	0.5

**Table E9. Fuel Oil Consumption (Btu) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total Fuel Oil Consumption (trillion Btu)					Fuel Oil Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	222	194	17	Q	10	14.7	12.8	1.1	Q	0.6
<b>Climate Zone: 30-Year Average</b>										
Under 2,000 CDD and --										
More than 7,000 HDD .....	63	59	2	Q	2	25.0	23.5	0.7	Q	0.7
5,500-7,000 HDD .....	63	57	4	Q	2	15.6	14.1	1.0	Q	0.5
4,000-5,499 HDD .....	90	75	Q	Q	4	19.4	16.3	Q	Q	0.8
Fewer than 4,000 HDD .....	6	2	Q	Q	2	2.5	1.0	Q	Q	0.8
2,000 CDD or More and --										
Fewer than 4,000 HDD .....	1	Q	Q	(*)	(*)	0.5	0.2	Q	(*)	0.3
<b>Number of Floors</b>										
One .....	47	42	2	(*)	3	18.5	16.5	0.8	0.1	1.1
Two .....	69	64	Q	Q	1	25.3	23.6	Q	Q	0.5
Three .....	39	36	1	Q	Q	20.2	18.7	0.5	Q	0.6
Four to Nine .....	55	43	9	Q	3	13.5	10.5	2.2	Q	0.7
Ten or More .....	13	9	Q	Q	1	3.3	Q	Q	Q	0.3
<b>Number of Workers (main shift)</b>										
Fewer than 5 .....	69	64	Q	(*)	Q	47.4	44.1	Q	0.1	Q
5 to 9 .....	17	15	Q	(*)	Q	26.6	23.4	Q	(*)	Q
10 to 19 .....	33	26	7	(*)	Q	32.3	25.4	6.7	0.1	0.3
20 to 49 .....	36	33	1	(*)	Q	22.2	20.9	0.5	(*)	Q
50 to 99 .....	27	25	1	(*)	1	12.7	11.5	0.7	0.2	0.3
100 to 249 .....	19	17	1	Q	1	8.9	7.8	0.3	Q	0.6
250 or More .....	22	14	Q	Q	4	3.5	2.3	Q	Q	0.6
<b>Weekly Operating Hours</b>										
Fewer than 40 .....	15	15	Q	(*)	Q	26.6	26.4	0.1	(*)	Q
40 to 48 .....	58	57	(*)	(*)	1	28.9	28.4	0.2	(*)	0.3
49 to 60 .....	32	28	Q	(*)	2	10.5	9.4	Q	0.1	0.8
61 to 84 .....	40	37	Q	Q	1	19.1	17.6	Q	Q	0.3
85 to 167 .....	18	16	1	Q	1	12.1	10.9	0.6	Q	0.4
Open Continuously .....	59	40	13	Q	5	9.9	6.8	2.2	Q	0.9
<b>Ownership and Occupancy</b>										
Nongovernment Owned.....	154	132	13	Q	7	13.5	11.6	1.2	Q	0.6
Owner Occupied .....	81	69	8	(*)	4	13.4	11.4	1.3	(*)	0.7
Nonowner Occupied .....	72	63	Q	Q	3	13.8	12.0	Q	Q	0.6
Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned .....	69	62	4	Q	2	18.1	16.3	1.0	Q	0.6
Federal .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
State .....	23	21	Q	Q	Q	24.0	Q	Q	Q	0.9
Local .....	39	35	3	Q	1	16.1	14.4	1.1	Q	0.4
<b>Vacancy Status</b>										
Completely Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant .....	30	27	2	Q	1	6.8	6.1	0.5	Q	0.2
Not At All Vacant .....	191	166	15	Q	9	17.9	15.5	1.4	Q	0.8
<b>Number of Establishments</b>										
One .....	183	161	14	Q	7	19.8	17.5	1.5	Q	0.7
2 to 5 .....	28	23	3	(*)	2	10.4	8.6	1.1	(*)	0.7
6 to 10 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
11 to 20 .....	Q	Q	Q	Q	Q	2.3	Q	Q	(*)	Q
More than 20 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

**Table E9. Fuel Oil Consumption (Btu) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total Fuel Oil Consumption (trillion Btu)					Fuel Oil Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	222	194	17	Q	10	14.7	12.8	1.1	Q	0.6
<b>Predominant Exterior Wall Material</b>										
Brick, Stone or Stucco .....	144	126	13	Q	4	18.7	16.3	1.7	Q	0.6
Concrete (Block or Poured) .....	24	18	Q	Q	4	9.6	7.3	Q	Q	1.4
Concrete Panels .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Siding or Shingles .....	41	39	Q	(*)	Q	54.4	51.8	Q	(*)	Q
Metal Panels .....	8	8	Q	Q	(*)	7.1	6.6	Q	Q	0.4
Window Glass .....	(*)	Q	Q	(*)	(*)	0.3	Q	Q	(*)	0.3
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Predominant Roof Material</b>										
Built-Up .....	37	30	Q	Q	2	6.6	5.5	Q	Q	0.4
Shingles (Not Wood) .....	63	58	3	(*)	Q	34.7	31.7	1.9	0.1	Q
Metal Surfacing .....	21	20	Q	Q	Q	16.2	15.0	Q	Q	0.8
Synthetic or Rubber .....	46	39	3	Q	4	9.9	8.4	0.7	Q	0.8
Slate or Tile .....	12	11	Q	(*)	(*)	25.5	23.2	Q	0.5	0.4
Wooden Materials .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>										
Any Type of Renovation										
Since 1980 .....	105	95	5	Q	4	18.6	16.8	0.9	Q	0.7
Addition or Annex .....	Q	Q	Q	Q	Q	19.3	18.1	0.4	Q	0.6
Reduction In Floorspace .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements .....	77	69	5	Q	3	18.3	16.4	1.2	Q	0.7
Wall or Roof Replacement .....	54	47	4	Q	2	17.4	15.2	1.4	Q	0.6
Interior Wall										
Re-Configuration .....	44	40	3	Q	2	14.4	12.9	0.9	Q	0.6
HVAC Equipment Upgrade.....	34	28	3	Q	2	9.7	8.1	0.7	Q	0.7
Lighting Upgrade .....	53	48	3	Q	2	15.2	13.7	0.8	Q	0.6
Window Replacement .....	50	46	3	Q	1	21.6	19.8	1.2	Q	0.4
Plumbing System Upgrade .....	45	40	3	Q	1	16.0	14.3	0.9	Q	0.5
Insulation Upgrade .....	21	18	2	(*)	1	15.1	12.7	1.4	0.2	0.7
Other Renovation .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980.....	94	82	Q	Q	Q	29.2	25.5	Q	Q	Q
Building Newer than 1980 .....	23	17	Q	Q	5	3.7	2.7	Q	Q	0.7
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	222	194	17	Q	10	14.7	12.8	1.1	Q	0.6
Natural Gas .....	99	82	10	Q	6	9.5	7.9	0.9	Q	0.6
Fuel Oil .....	222	194	17	Q	10	14.7	12.8	1.1	Q	0.6
District Heat .....	1	Q	Q	Q	1	0.8	Q	Q	Q	0.5
District Chilled Water .....	2	Q	Q	Q	Q	1.7	Q	Q	Q	0.7
Propane .....	54	47	3	Q	2	25.1	22.2	1.5	Q	1.1
Other .....	Q	Q	Q	Q	Q	8.3	7.4	Q	Q	0.3
<b>Space-Heating Energy Source</b>										
Fuel Oil .....	212	194	14	Q	3	35.4	32.4	2.3	Q	0.4
Fuel Oil Main .....	197	181	13	Q	2	51.7	47.5	3.4	Q	0.4
Fuel Oil Secondary .....	16	14	1	Q	1	7.1	6.2	0.3	Q	0.5
Other Excluding Fuel Oil .....	7	(*)	Q	Q	6	0.8	(*)	Q	Q	0.7
Buildings without Heating .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

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**Table E9. Fuel Oil Consumption (Btu) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total Fuel Oil Consumption (trillion Btu)					Fuel Oil Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	222	194	17	Q	10	14.7	12.8	1.1	Q	0.6
<b>Primary Space-Heating Energy Source</b>										
Electricity .....	3	Q	Q	(*)	1	1.1	Q	Q	(*)	0.5
Natural Gas .....	15	10	1	Q	4	2.4	1.6	0.1	Q	0.7
Fuel Oil .....	197	181	13	Q	2	51.7	47.5	3.4	Q	0.4
District Heat .....	1	Q	Q	Q	1	0.7	Q	Q	Q	0.5
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Cooling Energy Source</b>										
Fuel Oil .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other Excluding Fuel Oil .....	175	151	14	Q	8	12.6	10.9	1.0	Q	0.6
Buildings without Cooling .....	46	42	Q	(*)	Q	36.6	33.4	Q	(*)	Q
<b>Water-Heating Energy Source</b>										
Fuel Oil .....	109	89	17	Q	2	58.0	47.1	9.2	Q	1.1
Other Excluding Fuel Oil .....	104	96	(*)	Q	7	8.2	7.6	(*)	Q	0.5
Bldgs without Water Heating .....	10	9	(*)	(*)	Q	16.0	14.8	(*)	(*)	Q
<b>Cooking Energy Source</b>										
Fuel Oil .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other Excluding Fuel Oil .....	114	97	12	(*)	5	12.9	10.9	1.3	(*)	0.6
Buildings without Cooking .....	103	94	5	(*)	4	16.7	15.2	0.8	(*)	0.6
<b>Energy End Uses (more than one may apply)</b>										
Buildings with Space Heating ....	219	194	15	Q	9	14.6	13.0	1.0	Q	0.6
Buildings with Cooling .....	176	151	14	Q	9	12.7	10.9	1.0	Q	0.6
Buildings with Water Heating .....	213	185	17	Q	9	14.6	12.7	1.2	Q	0.6
Buildings with Cooking .....	119	100	12	Q	6	13.3	11.1	1.4	Q	0.6
Buildings with Manufacturing .....	7	Q	Q	(*)	Q	6.7	4.5	Q	0.1	Q
Buildings with Electricity Generation .....	31	21	3	Q	7	3.2	2.1	0.3	Q	0.8
<b>Percent of Floorspace Heated</b>										
Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	13	11	Q	(*)	Q	10.4	8.9	Q	(*)	Q
51 to 99 .....	26	22	Q	Q	1	10.4	8.9	Q	Q	0.4
100 .....	180	160	11	Q	7	16.0	14.3	1.0	Q	0.6
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	6	4	Q	Q	1	2.5	1.8	Q	Q	0.5
Packaged Heat Pumps .....	3	Q	(*)	Q	1	Q	Q	Q	Q	Q
Split-System Heat Pumps .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps ..	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Furnaces .....	50	47	1	(*)	Q	15.0	14.0	0.3	(*)	Q
Individual Space Heaters .....	31	27	2	(*)	2	9.7	8.3	0.8	(*)	0.6
District Heat .....	1	Q	Q	Q	1	0.7	Q	Q	Q	0.5
Boilers .....	171	152	13	Q	5	19.2	17.0	1.5	Q	0.6
Packaged Heating Units .....	17	13	1	Q	3	4.4	3.3	0.3	Q	0.8
Other .....	5	4	Q	Q	Q	4.6	3.9	Q	Q	Q
<b>Water Heating Equipment</b>										
Centralized System .....	161	139	16	Q	6	19.2	16.5	1.9	Q	0.7
Distributed System .....	31	29	Q	(*)	Q	14.2	13.5	Q	(*)	Q
Combination of Centralized and Distributed System .....	20	16	1	Q	2	5.1	4.1	0.3	Q	0.5



**Table E9. Fuel Oil Consumption (Btu) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total Fuel Oil Consumption (trillion Btu)					Fuel Oil Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	222	194	17	Q	10	14.7	12.8	1.1	Q	0.6
<b>Energy-Related Space Functions (more than one may apply)</b>										
Commercial Food Preparation....	119	100	12	Q	6	13.3	11.1	1.4	Q	0.6
Activities with Large Amounts of Hot Water .....	95	76	13	Q	6	12.4	9.9	1.7	Q	0.7
Separate Computer Area .....	96	79	11	Q	6	9.4	7.7	1.1	Q	0.5
<b>HVAC Conservation Features (more than one may apply)</b>										
Variable Air-Volume System.....	35	28	3	Q	4	4.5	3.5	0.3	Q	0.6
Economizer Cycle .....	42	33	3	Q	5	5.3	4.2	0.4	Q	0.6
HVAC Maintenance .....	196	172	14	Q	9	13.9	12.1	1.0	Q	0.6
Energy Management and Control System (EMCS) .....	31	24	Q	Q	4	4.8	3.8	Q	Q	0.6
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)</b>										
Heating .....	162	144	10	Q	6	14.9	13.2	1.0	Q	0.6
Cooling .....	135	117	12	Q	6	12.9	11.1	1.1	Q	0.5
Lighting .....	156	147	4	Q	4	17.9	16.8	0.5	Q	0.5
Office Equipment .....	92	87	Q	Q	3	27.8	26.2	Q	Q	0.8
<b>Annual Consumption (gallons)</b>										
1,000 or Less .....	13	10	Q	Q	2	1.5	1.2	Q	Q	0.3
1,001 to 5,000 .....	44	39	Q	Q	3	17.1	14.9	Q	Q	1.2
5,001 to 10,000 .....	28	24	Q	(*)	Q	31.0	26.6	Q	0.1	1.4
10,001 to 25,000 .....	30	29	(*)	(*)	1	33.4	31.8	0.5	0.1	1.0
Over 25,000 .....	106	92	11	Q	2	50.1	43.3	5.3	Q	1.0

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. In the 1999 CBECS, total fuel oil consumption in malls was not statistically significant.

(\*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

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

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

**Table E10. Fuel Oil Consumption (gallons) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total Fuel Oil Consumption (million gallons)					Fuel Oil Energy Intensity (gallons/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	1,602	1,397	125	Q	69	0.11	0.09	0.01	Q	(*)
<b>Building Floorspace (Square Feet)</b>										
1,001 to 5,000 .....	249	228	Q	(*)	Q	0.41	0.38	Q	(*)	Q
5,001 to 10,000 .....	261	237	Q	1	Q	0.37	0.33	Q	(*)	Q
10,001 to 25,000 .....	196	177	10	(*)	Q	0.20	0.18	0.01	(*)	Q
25,001 to 50,000 .....	117	112	Q	(*)	4	0.14	0.14	Q	(*)	(*)
50,001 to 100,000 .....	188	167	9	Q	7	0.11	0.10	0.01	Q	(*)
100,001 to 200,000 .....	263	246	Q	Q	10	0.09	0.08	Q	Q	(*)
200,001 to 500,000 .....	258	183	Q	Q	11	0.08	0.05	0.02	Q	(*)
Over 500,000 .....	69	Q	Q	Q	14	0.02	Q	Q	Q	(*)
<b>Principal Building Activity</b>										
Education .....	342	322	11	Q	Q	0.18	0.17	0.01	Q	(*)
Food Sales .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Health Care .....	76	45	11	Q	18	0.04	0.02	0.01	Q	0.01
Inpatient .....	65	35	11	Q	17	0.04	0.02	0.01	Q	0.01
Outpatient .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Lodging .....	255	177	Q	3	5	0.12	0.08	Q	(*)	(*)
Retail (Other Than Mall) .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Office .....	126	112	Q	Q	11	0.03	0.03	Q	Q	(*)
Public Assembly .....	208	201	Q	(*)	Q	0.22	0.21	Q	(*)	Q
Public Order and Safety .....	57	41	Q	(*)	Q	Q	Q	Q	Q	Q
Religious Worship .....	130	129	Q	(*)	Q	0.29	0.28	Q	(*)	Q
Service .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Warehouse and Storage .....	66	Q	Q	1	Q	0.05	0.05	Q	(*)	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Year Constructed</b>										
Before 1920 .....	273	253	Q	2	Q	0.28	0.26	Q	(*)	Q
1920 to 1945 .....	390	320	65	Q	2	0.20	0.16	0.03	Q	(*)
1946 to 1959 .....	347	323	Q	1	Q	0.17	0.16	Q	(*)	Q
1960 to 1969 .....	Q	Q	Q	Q	Q	0.16	0.14	0.01	Q	(*)
1970 to 1979 .....	161	137	9	Q	14	0.07	0.06	(*)	Q	0.01
1980 to 1989 .....	66	46	5	Q	15	0.02	0.02	(*)	Q	(*)
1990 to 1999 .....	65	46	Q	Q	15	0.03	0.02	Q	Q	0.01
2000 to 2003 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Census Region and Division</b>										
Northeast .....	1,265	1,122	106	Q	30	0.21	0.18	0.02	Q	(*)
New England .....	501	464	32	1	4	0.32	0.29	0.02	(*)	Q
Middle Atlantic .....	764	658	Q	Q	26	0.17	0.15	Q	Q	0.01
Midwest .....	170	Q	4	Q	10	0.06	0.06	(*)	Q	(*)
East North Central .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
West North Central .....	Q	Q	Q	Q	Q	0.10	0.09	(*)	(*)	Q
South .....	104	73	Q	Q	22	0.03	0.02	Q	Q	0.01
South Atlantic .....	93	69	Q	Q	18	0.04	0.03	Q	Q	0.01
East South Central .....	7	3	(*)	2	1	0.02	0.01	(*)	0.01	(*)
West South Central .....	4	Q	Q	(*)	3	(*)	(*)	Q	(*)	(*)
West .....	63	Q	Q	Q	7	Q	Q	Q	Q	Q
Mountain .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Pacific .....	29	15	Q	(*)	5	0.02	0.01	Q	(*)	(*)

**Table E10. Fuel Oil Consumption (gallons) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total Fuel Oil Consumption (million gallons)					Fuel Oil Energy Intensity (gallons/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	1,602	1,397	125	Q	69	0.11	0.09	0.01	Q	(*)
<b>Climate Zone: 30-Year Average</b>										
Under 2,000 CDD and --										
More than 7,000 HDD .....	451	424	13	Q	13	0.18	0.17	0.01	Q	0.01
5,500-7,000 HDD .....	455	412	29	Q	14	0.11	0.10	0.01	Q	(*)
4,000-5,499 HDD .....	648	542	Q	Q	25	0.14	0.12	Q	Q	0.01
Fewer than 4,000 HDD .....	42	17	Q	Q	13	0.02	0.01	Q	Q	0.01
2,000 CDD or More and --										
Fewer than 4,000 HDD .....	6	Q	Q	(*)	4	(*)	(*)	Q	(*)	(*)
<b>Number of Floors</b>										
One .....	335	300	15	1	19	0.13	0.12	0.01	(*)	0.01
Two .....	496	463	Q	Q	11	0.18	0.17	Q	Q	(*)
Three .....	279	258	7	Q	Q	0.15	0.13	(*)	Q	(*)
Four to Nine .....	400	310	66	Q	22	0.10	0.08	0.02	Q	0.01
Ten or More .....	93	66	Q	Q	8	0.02	Q	Q	Q	(*)
<b>Number of Workers (main shift)</b>										
Fewer than 5 .....	498	464	Q	1	Q	0.34	0.32	Q	(*)	Q
5 to 9 .....	120	106	Q	(*)	Q	0.19	0.17	Q	(*)	Q
10 to 19 .....	239	187	49	(*)	Q	0.23	0.18	0.05	(*)	(*)
20 to 49 .....	257	241	6	(*)	Q	0.16	0.15	(*)	(*)	Q
50 to 99 .....	195	177	10	3	5	0.09	0.08	(*)	(*)	(*)
100 to 249 .....	138	120	4	Q	9	0.06	0.06	(*)	Q	(*)
250 or More .....	156	101	Q	Q	27	0.03	0.02	Q	Q	(*)
<b>Weekly Operating Hours</b>										
Fewer than 40 .....	110	109	Q	(*)	Q	0.19	0.19	(*)	(*)	Q
40 to 48 .....	416	408	3	(*)	5	0.21	0.20	(*)	(*)	(*)
49 to 60 .....	228	205	Q	1	17	0.08	0.07	Q	(*)	0.01
61 to 84 .....	288	266	Q	Q	5	0.14	0.13	Q	Q	(*)
85 to 167 .....	132	118	7	Q	4	0.09	0.08	(*)	Q	(*)
Open Continuously .....	428	291	94	Q	37	0.07	0.05	0.02	Q	0.01
<b>Ownership and Occupancy</b>										
Nongovernment Owned.....	1,107	952	97	Q	52	0.10	0.08	0.01	Q	(*)
Owner Occupied .....	588	499	58	1	30	0.10	0.08	0.01	(*)	(*)
Nonowner Occupied .....	520	453	Q	Q	23	0.10	0.09	Q	Q	(*)
Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned .....	495	445	28	Q	16	0.13	0.12	0.01	Q	(*)
Federal .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
State .....	166	152	Q	Q	Q	0.17	Q	Q	Q	0.01
Local .....	284	253	20	Q	8	0.12	0.10	0.01	Q	(*)
<b>Vacancy Status</b>										
Completely Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant .....	213	192	15	Q	6	0.05	0.04	(*)	Q	(*)
Not At All Vacant .....	1,380	1,197	110	Q	62	0.13	0.11	0.01	Q	0.01
<b>Number of Establishments</b>										
One .....	1,318	1,160	99	Q	50	0.14	0.13	0.01	Q	0.01
2 to 5 .....	198	164	21	(*)	13	0.07	0.06	0.01	(*)	0.01
6 to 10 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
11 to 20 .....	Q	Q	Q	Q	Q	0.02	Q	Q	(*)	Q
More than 20 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

**Table E10. Fuel Oil Consumption (gallons) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total Fuel Oil Consumption (million gallons)					Fuel Oil Energy Intensity (gallons/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	1,602	1,397	125	Q	69	0.11	0.09	0.01	Q	(*)
<b>Predominant Exterior Wall Material</b>										
Brick, Stone or Stucco .....	1,041	909	94	Q	31	0.13	0.12	0.01	Q	(*)
Concrete (Block or Poured) .....	175	133	Q	Q	26	0.07	0.05	Q	Q	0.01
Concrete Panels .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Siding or Shingles .....	295	281	Q	(*)	Q	0.39	0.37	Q	(*)	Q
Metal Panels .....	60	55	Q	Q	3	0.05	0.05	Q	Q	(*)
Window Glass .....	1	Q	Q	(*)	1	(*)	Q	Q	(*)	(*)
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Predominant Roof Material</b>										
Built-Up .....	264	220	Q	Q	17	0.05	0.04	Q	Q	(*)
Shingles (Not Wood) .....	453	415	25	1	Q	0.25	0.23	0.01	(*)	Q
Metal Surfacing .....	153	141	Q	Q	Q	0.12	0.11	Q	Q	0.01
Synthetic or Rubber .....	335	284	24	Q	25	0.07	0.06	0.01	Q	0.01
Slate or Tile .....	83	76	Q	2	1	0.18	0.17	Q	(*)	(*)
Wooden Materials .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>										
Any Type of Renovation										
Since 1980 .....	757	686	38	Q	27	0.13	0.12	0.01	Q	(*)
Addition or Annex .....	Q	Q	Q	Q	Q	0.14	0.13	(*)	Q	(*)
Reduction In Floorspace .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements .....	555	496	35	Q	21	0.13	0.12	0.01	Q	(*)
Wall or Roof Replacement .....	386	337	31	Q	14	0.13	0.11	0.01	Q	(*)
Interior Wall										
Re-Configuration .....	321	288	19	Q	13	0.10	0.09	0.01	Q	(*)
HVAC Equipment Upgrade.....	244	204	19	Q	17	0.07	0.06	0.01	Q	(*)
Lighting Upgrade .....	386	348	21	Q	15	0.11	0.10	0.01	Q	(*)
Window Replacement .....	362	332	20	Q	6	0.16	0.14	0.01	Q	(*)
Plumbing System Upgrade .....	321	288	19	Q	9	0.12	0.10	0.01	Q	(*)
Insulation Upgrade .....	151	127	14	2	7	0.11	0.09	0.01	(*)	0.01
Other Renovation .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980.....	677	590	Q	Q	Q	0.21	0.18	Q	Q	Q
Building Newer than 1980 .....	168	121	Q	Q	33	0.03	0.02	Q	Q	0.01
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	1,601	1,396	125	Q	69	0.11	0.09	0.01	Q	(*)
Natural Gas .....	712	593	70	Q	44	0.07	0.06	0.01	Q	(*)
Fuel Oil .....	1,602	1,397	125	Q	69	0.11	0.09	0.01	Q	(*)
District Heat .....	10	Q	Q	Q	6	0.01	Q	Q	Q	(*)
District Chilled Water .....	12	Q	Q	Q	Q	0.01	Q	Q	Q	(*)
Propane .....	387	342	23	Q	18	0.18	0.16	0.01	Q	0.01
Other .....	Q	Q	Q	Q	Q	0.06	0.05	Q	Q	(*)
<b>Space-Heating Energy Source</b>										
Fuel Oil .....	1,527	1,397	100	Q	19	0.25	0.23	0.02	Q	(*)
Fuel Oil Main .....	1,423	1,307	94	Q	11	0.37	0.34	0.02	Q	(*)
Fuel Oil Secondary .....	112	98	5	Q	8	0.05	0.04	(*)	Q	(*)
Other Excluding Fuel Oil .....	51	(*)	Q	Q	45	0.01	(*)	Q	Q	0.01
Buildings without Heating .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

**Table E10. Fuel Oil Consumption (gallons) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total Fuel Oil Consumption (million gallons)					Fuel Oil Energy Intensity (gallons/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	1,602	1,397	125	Q	69	0.11	0.09	0.01	Q	(*)
<b>Primary Space-Heating Energy Source</b>										
Electricity .....	23	Q	Q	1	11	0.01	Q	Q	(*)	(*)
Natural Gas .....	109	72	6	Q	31	0.02	0.01	(*)	Q	(*)
Fuel Oil .....	1,423	1,307	94	Q	11	0.37	0.34	0.02	Q	(*)
District Heat .....	7	Q	Q	Q	5	(*)	Q	Q	Q	(*)
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Cooling Energy Source</b>										
Fuel Oil .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other Excluding Fuel Oil .....	1,258	1,086	103	Q	58	0.09	0.08	0.01	Q	(*)
Buildings without Cooling .....	334	305	Q	(*)	Q	0.26	0.24	Q	(*)	Q
<b>Water-Heating Energy Source</b>										
Fuel Oil .....	786	638	125	Q	15	0.42	0.34	0.07	Q	0.01
Other Excluding Fuel Oil .....	748	695	(*)	Q	49	0.06	0.05	(*)	Q	(*)
Bldgs without Water Heating .....	69	64	(*)	(*)	Q	0.12	0.11	(*)	(*)	Q
<b>Cooking Energy Source</b>										
Fuel Oil .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other Excluding Fuel Oil .....	821	699	84	(*)	37	0.09	0.08	0.01	(*)	(*)
Buildings without Cooking .....	742	677	38	(*)	28	0.12	0.11	0.01	(*)	(*)
<b>Energy End Uses (more than one may apply)</b>										
Buildings with Space Heating ....	1,577	1,397	105	Q	65	0.11	0.09	0.01	Q	(*)
Buildings with Cooling .....	1,268	1,092	104	Q	61	0.09	0.08	0.01	Q	(*)
Buildings with Water Heating .....	1,533	1,333	125	Q	63	0.11	0.09	0.01	Q	(*)
Buildings with Cooking .....	860	720	87	Q	41	0.10	0.08	0.01	Q	(*)
Buildings with Manufacturing .....	49	Q	Q	1	Q	0.05	0.03	Q	(*)	Q
Buildings with Electricity Generation .....	227	151	20	Q	54	0.02	0.02	(*)	Q	0.01
<b>Percent of Floorspace Heated</b>										
Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	94	81	Q	(*)	Q	0.07	0.06	Q	(*)	Q
51 to 99 .....	187	160	Q	Q	8	0.08	0.06	Q	Q	(*)
100 .....	1,297	1,157	81	Q	52	0.12	0.10	0.01	Q	(*)
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	44	32	Q	Q	9	0.02	0.01	Q	Q	(*)
Packaged Heat Pumps .....	22	Q	1	Q	6	Q	Q	Q	Q	Q
Split-System Heat Pumps .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps ..	Q	Q	Q	Q	Q	Q	Q	Q	Q	(*)
Furnaces .....	360	337	7	1	Q	0.11	0.10	(*)	(*)	Q
Individual Space Heaters .....	225	194	18	1	13	0.07	0.06	0.01	(*)	(*)
District Heat .....	8	Q	Q	Q	5	(*)	Q	Q	Q	(*)
Boilers .....	1,236	1,093	96	Q	37	0.14	0.12	0.01	Q	(*)
Packaged Heating Units .....	122	91	7	Q	22	0.03	0.02	(*)	Q	0.01
Other .....	36	31	Q	Q	Q	0.03	0.03	Q	Q	Q
<b>Water Heating Equipment</b>										
Centralized System .....	1,162	1,003	114	Q	40	0.14	0.12	0.01	Q	(*)
Distributed System .....	224	212	Q	(*)	Q	0.10	0.10	Q	(*)	Q
Combination of Centralized and Distributed System .....	147	119	9	Q	13	0.04	0.03	(*)	Q	(*)

**Table E10. Fuel Oil Consumption (gallons) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total Fuel Oil Consumption (million gallons)					Fuel Oil Energy Intensity (gallons/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	1,602	1,397	125	Q	69	0.11	0.09	0.01	Q	(*)
<b>Energy-Related Space Functions (more than one may apply)</b>										
Commercial Food Preparation....	860	720	87	Q	41	0.10	0.08	0.01	Q	(*)
Activities with Large Amounts of Hot Water .....	685	546	92	Q	40	0.09	0.07	0.01	Q	0.01
Separate Computer Area .....	695	570	78	Q	40	0.07	0.06	0.01	Q	(*)
<b>HVAC Conservation Features (more than one may apply)</b>										
Variable Air-Volume System.....	254	199	19	Q	32	0.03	0.03	(*)	Q	(*)
Economizer Cycle .....	303	239	22	Q	37	0.04	0.03	(*)	Q	(*)
HVAC Maintenance .....	1,413	1,238	101	Q	62	0.10	0.09	0.01	Q	(*)
Energy Management and Control System (EMCS) .....	222	173	Q	Q	26	0.03	0.03	Q	Q	(*)
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)</b>										
Heating .....	1,166	1,035	75	Q	47	0.11	0.10	0.01	Q	(*)
Cooling .....	975	841	83	Q	41	0.09	0.08	0.01	Q	(*)
Lighting .....	1,127	1,061	30	Q	30	0.13	0.12	(*)	Q	(*)
Office Equipment .....	663	625	Q	Q	19	0.20	0.19	Q	Q	0.01
<b>Annual Consumption (gallons)</b>										
1,000 or Less .....	94	74	Q	Q	17	0.01	0.01	Q	Q	(*)
1,001 to 5,000 .....	320	279	Q	Q	22	0.12	0.11	Q	Q	0.01
5,001 to 10,000 .....	204	175	Q	(*)	Q	0.22	0.19	Q	(*)	0.01
10,001 to 25,000 .....	219	209	3	1	7	0.24	0.23	(*)	(*)	0.01
Over 25,000 .....	765	660	81	Q	15	0.36	0.31	0.04	Q	0.01

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/cbeecs>.

\* Figures in this table do not include enclosed malls and strip malls. In the 1999 CBECS, total fuel oil consumption in malls was not statistically significant.

(\*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

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

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

**Table E11. District Heat Consumption (Btu) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total District Heat Consumption (trillion Btu)					District Heat Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	634	578	46	1	Q	116.4	106.3	8.4	0.2	Q
<b>Building Floorspace (Square Feet)</b>										
1,001 to 5,000 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
5,001 to 10,000 .....	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
25,001 to 50,000 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
50,001 to 100,000 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
100,001 to 200,000 .....	165	154	10	Q	Q	118.1	109.9	Q	Q	Q
200,001 to 500,000 .....	123	112	11	Q	Q	121.2	110.2	10.5	Q	Q
Over 500,000 .....	169	146	16	Q	Q	99.9	86.2	9.5	Q	Q
<b>Principal Building Activity</b>										
Education .....	134	122	8	Q	Q	116.6	106.6	6.9	Q	Q
Food Service .....	N	N	N	N	N	N	N	N	N	N
Health Care .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Inpatient .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Outpatient .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Lodging .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Retail (Other Than Mall).....	Q	Q	(*)	(*)	(*)	Q	Q	(*)	(*)	(*)
Office .....	128	122	3	Q	Q	81.5	77.6	2.2	Q	Q
Public Assembly .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Public Order and Safety .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Service .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Warehouse and Storage .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Year Constructed</b>										
Before 1920 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1920 to 1945 .....	129	117	7	Q	Q	107.0	96.8	6.1	Q	Q
1946 to 1959 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1960 to 1969 .....	117	105	Q	Q	Q	137.6	122.5	Q	Q	Q
1970 to 1979 .....	77	66	10	Q	Q	131.7	112.2	16.6	Q	Q
1980 to 1989 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1990 to 1999 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
2000 to 2003 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Census Region and Division</b>										
Northeast .....	165	Q	15	Q	Q	120.8	Q	10.6	Q	Q
New England .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Middle Atlantic .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Midwest .....	225	210	9	Q	Q	136.5	127.5	5.7	Q	Q
East North Central .....	192	182	5	Q	Q	135.3	128.2	3.7	Q	Q
West North Central .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
South .....	182	166	14	Q	Q	102.8	94.0	7.9	Q	Q
South Atlantic .....	117	105	10	Q	Q	94.1	84.8	8.2	Q	Q
East South Central .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
West South Central .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
West .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mountain .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Pacific .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

**Table E11. District Heat Consumption (Btu) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total District Heat Consumption (trillion Btu)					District Heat Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	634	578	46	1	Q	116.4	106.3	8.4	0.2	Q
<b>Climate Zone: 30-Year Average</b>										
<b>Under 2,000 CDD and --</b>										
More than 7,000 HDD .....	88	80	8	Q	(*)	106.3	96.7	9.4	Q	(*)
5,500-7,000 HDD .....	255	241	9	Q	Q	142.9	135.0	4.8	Q	Q
4,000-5,499 HDD .....	140	120	Q	Q	Q	103.5	88.9	12.0	Q	Q
Fewer than 4,000 HDD .....	101	90	10	Q	(*)	98.1	88.2	9.8	Q	(*)
<b>2,000 CDD or More and --</b>										
Fewer than 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Number of Floors</b>										
One .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Two .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Three .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Four to Nine .....	308	279	23	Q	Q	124.4	112.8	9.5	Q	Q
Ten or More .....	123	104	16	(*)	Q	90.3	75.9	11.8	0.1	Q
<b>Number of Workers (main shift)</b>										
Fewer than 5 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
5 to 9 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
10 to 19 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
20 to 49 .....	96	87	Q	Q	(*)	143.7	130.3	Q	Q	(*)
50 to 99 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
100 to 249 .....	124	116	6	Q	Q	118.3	110.9	6.2	Q	Q
250 or More .....	232	201	23	Q	Q	105.8	91.8	10.6	Q	Q
<b>Weekly Operating Hours</b>										
Fewer than 40 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
40 to 48 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
49 to 60 .....	176	173	2	Q	Q	110.4	109.0	1.3	Q	Q
61 to 84 .....	73	66	Q	Q	Q	92.9	83.7	4.5	Q	Q
85 to 167 .....	91	87	4	(*)	Q	115.5	110.4	Q	0.2	Q
Open Continuously .....	210	171	36	Q	Q	130.8	106.8	22.2	Q	Q
<b>Ownership and Occupancy</b>										
Nongovernment Owned.....	247	221	22	(*)	Q	114.9	102.7	10.1	0.1	2.0
Owner Occupied .....	185	172	11	Q	Q	129.9	121.4	7.5	Q	Q
Nonowner Occupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned .....	387	358	24	Q	Q	117.4	108.5	7.4	Q	Q
Federal .....	Q	126	Q	Q	Q	Q	Q	Q	Q	Q
State .....	188	172	16	Q	Q	111.0	101.3	9.3	Q	Q
Local .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Vacancy Status</b>										
Completely Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant.....	N	N	N	N	N	N	N	N	N	N
Partially Vacant .....	164	150	Q	Q	Q	110.4	101.2	Q	Q	Q
Not At All Vacant .....	461	419	36	Q	Q	120.2	109.3	9.3	Q	Q
<b>Number of Establishments</b>										
One .....	384	348	30	Q	Q	125.3	113.6	9.9	Q	Q
2 to 5 .....	156	142	Q	Q	Q	119.6	109.1	Q	Q	Q
6 to 10 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
11 to 20 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q



**Table E11. District Heat Consumption (Btu) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total District Heat Consumption (trillion Btu)					District Heat Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	634	578	46	1	Q	116.4	106.3	8.4	0.2	Q
<b>Predominant Exterior Wall Material</b>										
Brick, Stone or Stucco .....	408	373	29	Q	Q	120.7	110.3	8.5	Q	Q
Concrete (Block or Poured) .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete Panels .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Siding or Shingles .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Metal Panels .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Window Glass .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Predominant Roof Material</b>										
Built-Up .....	263	231	26	Q	Q	100.9	88.7	9.9	Q	Q
Shingles (Not Wood) .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Metal Surfacing .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Synthetic or Rubber .....	171	153	16	Q	Q	127.6	114.4	11.7	Q	Q
Slate or Tile .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Wooden Materials .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>										
Any Type of Renovation										
Since 1980 .....	197	168	21	Q	Q	111.1	94.5	12.0	Q	Q
Addition or Annex .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Reduction In Floorspace .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements.....	143	121	15	Q	Q	110.3	93.2	11.8	Q	Q
Wall or Roof Replacement.....	99	86	10	(*)	Q	110.3	95.8	11.0	Q	Q
Interior Wall										
Re-Configuration .....	124	101	16	Q	Q	113.6	92.7	14.8	Q	Q
HVAC Equipment Upgrade.....	128	105	18	Q	Q	93.0	76.1	12.8	Q	Q
Lighting Upgrade .....	157	133	17	Q	Q	110.9	93.8	12.3	Q	Q
Window Replacement .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Plumbing System Upgrade.....	103	87	13	(*)	Q	107.3	90.1	13.8	0.2	Q
Insulation Upgrade .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other Renovation .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980.....	229	215	13	Q	Q	122.0	114.7	6.9	Q	Q
Building Newer than 1980 .....	208	196	12	Q	Q	115.9	109.0	6.6	Q	Q
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	634	578	46	1	Q	116.4	106.3	8.4	Q	Q
Natural Gas .....	305	270	27	Q	Q	124.6	110.5	11.1	Q	Q
Fuel Oil .....	177	153	20	Q	Q	102.3	88.4	11.7	Q	Q
District Heat .....	634	578	46	1	Q	116.4	106.3	8.4	0.2	Q
District Chilled Water .....	309	285	24	Q	Q	133.9	123.4	10.2	Q	Q
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Space-Heating Energy Source</b>										
District Heat .....	633	578	45	1	Q	121.8	111.3	8.7	0.3	Q
District Heat Main .....	618	570	41	Q	Q	125.8	116.2	8.4	Q	1.0
District Heat Secondary .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other Excl District Heat .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Buildings without Heating .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

**Table E11. District Heat Consumption (Btu) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total District Heat Consumption (trillion Btu)					District Heat Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	634	578	46	1	Q	116.4	106.3	8.4	0.2	Q
<b>Primary Space-Heating Energy Source</b>										
Electricity .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Natural Gas .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Fuel Oil.....	N	N	N	N	N	N	N	N	N	N
District Heat .....	618	570	41	Q	Q	125.8	116.2	8.4	Q	1.0
Propane.....	N	N	N	N	N	N	N	N	N	N
Other.....	N	N	N	N	N	N	N	N	N	N
<b>Cooling Energy Source</b>										
District Heat .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other Excl District Heat .....	493	455	36	Q	(*)	117.2	108.4	8.6	Q	(*)
Buildings without Cooling .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Water-Heating Energy Source</b>										
District Heat .....	329	274	46	1	Q	106.5	88.6	14.9	0.4	2.6
Other Excluding District Heat .....	194	194	(*)	(*)	Q	125.9	125.8	(*)	(*)	Q
Bldgs without Water Heating .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Cooking Energy Source</b>										
District Heat .....	77	59	13	1	Q	130.3	100.6	21.4	2.2	Q
Other Excl District Heat .....	142	129	Q	(*)	Q	106.4	96.2	Q	(*)	Q
Buildings without Cooking .....	415	390	21	(*)	Q	118.0	111.0	6.1	(*)	Q
<b>Energy End Uses (more than one may apply)</b>										
Buildings with Space Heating ....	634	578	46	1	Q	117.8	107.5	8.5	0.2	Q
Buildings with Cooling .....	535	484	41	1	Q	114.9	104.0	8.9	0.3	Q
Buildings with Water Heating .....	523	468	46	1	Q	113.0	101.0	9.9	0.3	Q
Buildings with Cooking .....	219	188	25	1	Q	113.7	97.5	12.8	0.7	Q
Buildings with Manufacturing .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Buildings with Electricity Generation .....	237	209	21	Q	Q	112.0	98.5	10.0	Q	Q
<b>Percent of Floorspace Heated</b>										
Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
51 to 99 .....	57	53	Q	Q	Q	90.5	83.3	6.9	Q	Q
100 .....	575	524	41	Q	Q	121.9	111.1	8.8	Q	Q
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Packaged Heat Pumps .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Split-System Heat Pumps .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps ..	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Furnaces .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Space Heaters .....	50	45	Q	Q	Q	82.5	74.8	Q	0.1	Q
District Heat .....	628	574	45	1	Q	121.6	111.1	8.7	0.3	Q
Boilers .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Packaged Heating Units .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Water Heating Equipment</b>										
Centralized System .....	286	252	30	(*)	Q	107.1	94.3	11.3	Q	Q
Distributed System .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Combination of Centralized and Distributed System .....	170	153	Q	Q	Q	115.2	103.4	Q	Q	Q

**Table E11. District Heat Consumption (Btu) and Energy Intensities by End Use for Non-Mall Buildings, 2003**

	Total District Heat Consumption (trillion Btu)					District Heat Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings*</b> .....	634	578	46	1	Q	116.4	106.3	8.4	0.2	Q
<b>Energy-Related Space Functions</b>										
Commercial Food										
Commercial Food Preparation....	219	188	25	1	Q	113.7	97.5	12.8	0.7	Q
Activities with Large										
Amounts of Hot Water .....	273	233	34	1	Q	120.8	103.1	15.0	0.5	Q
Separate Computer Area .....	374	332	34	Q	Q	114.5	101.6	10.4	Q	Q
<b>HVAC Conservation Features (more than one may apply)</b>										
Variable Air-Volume System.....	368	330	29	Q	Q	121.9	109.4	9.7	Q	Q
Economizer Cycle .....	334	297	28	Q	Q	109.6	97.4	9.3	Q	Q
HVAC Maintenance .....	612	558	45	1	Q	118.7	108.2	8.7	0.2	Q
Energy Management and										
Control System (EMCS) .....	320	288	25	Q	Q	115.0	103.4	9.0	Q	Q
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)</b>										
Heating .....	356	324	24	Q	Q	113.4	103.1	7.8	Q	Q
Cooling .....	390	357	25	Q	Q	115.4	105.7	7.3	Q	Q
Lighting .....	406	389	10	Q	Q	111.9	107.3	2.9	Q	Q
Office Equipment .....	Q	Q	Q	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>.

\* Figures in this table do not include enclosed malls and strip malls. In the 1999 CBECS, there were no responding malls in the sample that used district heat.

(\*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

N=No responding cases in sample that used district heat.

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

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

**Table E1A. Major Fuel Consumption (Btu) by End Use for All Buildings, 2003**

	Total Major Fuel Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings</b> .....	6,523	2,365	516	436	501	1,340	190	381	69	156	569
<b>Building Floorspace (Square Feet)</b>											
1,001 to 5,000 .....	685	213	46	18	49	96	49	138	8	12	56
5,001 to 10,000 .....	563	212	39	18	43	95	37	57	6	10	46
10,001 to 25,000 .....	899	357	57	52	51	184	29	57	10	20	83
25,001 to 50,000 .....	742	281	63	55	60	140	16	37	7	17	66
50,001 to 100,000 .....	913	325	79	78	67	202	17	35	7	20	83
100,001 to 200,000 .....	1,064	399	84	91	81	234	11	30	Q	33	89
200,001 to 500,000 .....	751	286	58	56	69	170	14	10	8	20	61
Over 500,000 .....	906	292	91	67	81	220	18	19	Q	25	85
<b>Principal Building Activity</b>											
Education .....	820	389	79	83	57	113	8	16	4	32	39
Food Sales .....	251	36	12	7	4	46	11	119	2	2	11
Food Service .....	427	71	29	24	67	42	105	70	2	2	16
Health Care .....	594	223	44	42	95	105	11	8	4	10	51
Inpatient .....	475	175	35	38	92	76	11	4	2	7	34
Outpatient .....	119	48	9	4	3	28	Q	4	2	3	17
Lodging .....	510	113	25	14	160	124	16	12	Q	6	36
Mercantile .....	1,021	269	110	68	57	308	26	49	8	11	115
Retail (Other Than Mall) .....	319	107	25	16	5	111	3	22	3	4	24
Enclosed and Strip Malls .....	702	162	85	51	53	197	24	27	5	8	91
Office .....	1,134	400	109	63	24	281	4	35	32	74	110
Public Assembly .....	370	196	38	63	4	27	3	9	Q	Q	26
Public Order and Safety .....	126	54	10	10	15	18	1	3	1	2	12
Religious Worship .....	163	98	11	5	3	17	3	6	(*)	1	19
Service .....	312	145	16	24	4	63	Q	9	1	3	46
Warehouse and Storage .....	456	194	14	20	6	132	Q	36	2	5	48
Other .....	286	138	18	11	4	59	Q	10	Q	5	33
Vacant .....	54	37	2	1	(*)	4	Q	Q	Q	(*)	8
<b>Year Constructed</b>											
Before 1920 .....	303	181	7	11	17	35	17	Q	2	4	15
1920 to 1945 .....	631	318	26	30	43	92	20	26	3	8	64
1946 to 1959 .....	588	284	32	36	46	94	13	27	4	11	41
1960 to 1969 .....	791	353	48	53	68	127	15	42	7	19	60
1970 to 1979 .....	1,191	397	97	86	101	265	32	64	14	29	106
1980 to 1989 .....	1,247	359	122	82	103	298	33	74	17	39	120
1990 to 1999 .....	1,262	352	129	101	84	294	40	91	18	36	117
2000 to 2003 .....	511	122	55	37	39	136	20	41	4	10	47
<b>Census Region and Division</b>											
Northeast .....	1,396	674	55	76	93	239	38	63	13	32	113
New England .....	345	186	10	15	20	55	Q	21	2	7	21
Middle Atlantic .....	1,052	488	45	60	74	184	31	42	11	25	92
Midwest .....	1,799	874	67	109	107	313	38	92	16	36	146
East North Central .....	1,343	676	46	83	77	230	28	62	12	27	102
West North Central .....	456	198	21	26	30	83	10	30	4	9	45
South .....	2,265	519	308	179	191	543	82	167	20	58	198
South Atlantic .....	1,241	278	162	99	100	311	40	95	12	37	106
East South Central .....	340	113	27	25	32	72	10	25	2	6	28
West South Central .....	684	128	119	54	59	160	31	47	6	15	64
West .....	1,063	298	86	72	109	245	33	59	20	30	112
Mountain .....	446	167	31	27	41	94	7	20	Q	9	43
Pacific .....	617	131	55	45	68	151	25	39	Q	21	69

**Table E1A. Major Fuel Consumption (Btu) by End Use for All Buildings, 2003**

	Total Major Fuel Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings</b> .....	6,523	2,365	516	436	501	1,340	190	381	69	156	569
<b>Climate Zone: 30-Year Average</b>											
Under 2,000 CDD and --											
More than 7,000 HDD .....	1,086	555	27	66	67	180	22	62	9	18	80
5,500-7,000 HDD .....	1,929	913	75	109	127	352	46	94	17	41	154
4,000-5,499 HDD .....	1,243	463	78	77	95	259	37	65	19	32	118
Fewer than 4,000 HDD .....	1,386	328	143	108	134	330	53	101	15	35	139
2,000 CDD or More and --											
Fewer than 4,000 HDD .....	879	106	193	76	78	219	32	59	8	29	79
<b>Number of Establishments</b>											
One .....	4,167	1,562	289	272	362	790	139	290	42	87	334
2 to 5 .....	1,161	460	84	74	75	245	27	55	13	26	101
6 to 10 .....	378	135	32	25	19	89	8	11	4	18	37
11 to 20 .....	307	82	37	25	17	82	7	11	3	8	34
More than 20 .....	473	98	74	39	27	131	9	13	7	17	57
Currently Unoccupied .....	37	28	Q	(*)	Q	3	Q	Q	Q	Q	5
<b>Energy Sources (more than one may apply)</b>											
Electricity .....	6,522	2,364	516	436	501	1,340	190	381	69	156	569
Natural Gas .....	5,042	1,878	356	333	436	987	183	259	47	114	448
Fuel Oil .....	1,867	683	142	129	204	389	36	47	25	52	160
District Heat .....	1,029	609	34	70	60	150	Q	12	5	29	50
<b>Energy End Uses (more than one may apply)</b>											
Buildings with Space Heating .....	6,370	2,365	488	425	490	1,297	183	361	68	153	540
Buildings with Cooling .....	6,149	2,140	516	420	479	1,285	186	367	68	154	533
Buildings with Water Heating .....	6,158	2,179	493	417	501	1,262	190	362	67	152	535

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>.

(\*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

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

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

**Table E2A. Major Fuel Consumption (Btu) Intensities by End Use for All Buildings, 2003**

	Major Fuel Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings</b> .....	91.0	33.0	7.2	6.1	7.0	18.7	2.7	5.3	1.0	7.9	2.5
<b>Building Floorspace (Square Feet)</b>											
1,001 to 5,000 .....	99.0	30.7	6.7	2.7	7.1	13.9	7.1	19.9	1.1	8.2	2.9
5,001 to 10,000 .....	80.0	30.1	5.5	2.6	6.1	13.6	5.2	8.2	0.8	6.6	1.8
10,001 to 25,000 .....	71.0	28.2	4.5	4.1	4.1	14.5	2.3	4.5	0.8	6.5	1.9
25,001 to 50,000 .....	79.0	29.9	6.8	5.9	6.3	14.9	1.7	3.9	0.8	7.1	2.0
50,001 to 100,000 .....	88.7	31.6	7.6	7.6	6.5	19.6	1.7	3.4	0.7	8.1	2.0
100,001 to 200,000 .....	104.2	39.1	8.2	8.9	7.9	22.9	1.1	2.9	Q	8.7	3.5
200,001 to 500,000 .....	100.2	38.2	7.8	7.4	9.2	22.7	1.8	1.3	1.1	8.2	2.8
Over 500,000 .....	118.2	38.2	11.8	8.8	10.6	28.7	2.3	2.4	Q	11.1	3.3
<b>Principal Building Activity</b>											
Education .....	83.1	39.4	8.0	8.4	5.8	11.5	0.8	1.6	0.4	4.0	3.4
Food Sales .....	199.7	28.9	9.8	5.9	2.9	36.7	8.6	94.8	1.6	9.1	1.9
Food Service .....	258.3	43.1	17.4	14.8	40.4	25.4	63.5	42.1	1.0	9.5	1.4
Health Care .....	187.7	70.4	14.1	13.3	30.2	33.1	3.5	2.6	1.2	16.1	3.4
Inpatient .....	249.2	91.8	18.6	20.0	48.4	40.1	5.6	2.0	1.1	18.1	3.9
Outpatient .....	94.6	38.1	7.2	3.3	2.5	22.6	Q	3.5	1.3	13.2	2.6
Lodging .....	100.0	22.2	4.9	2.7	31.4	24.3	3.2	2.3	Q	7.0	1.3
Mercantile .....	91.3	24.0	9.9	6.0	5.1	27.5	2.3	4.4	0.7	10.3	1.1
Retail (Other Than Mall) .....	73.9	24.8	5.9	3.7	1.1	25.7	0.6	5.0	0.6	5.6	1.0
Enclosed and Strip Malls .....	102.2	23.6	12.4	7.5	7.7	28.6	3.4	4.0	0.8	13.2	1.1
Office .....	92.9	32.8	8.9	5.2	2.0	23.1	0.3	2.9	2.6	9.0	6.1
Public Assembly .....	93.9	49.7	9.6	15.9	1.0	7.0	0.8	2.2	Q	6.5	Q
Public Order and Safety .....	115.8	49.9	8.9	9.5	14.0	16.5	1.3	2.9	0.6	10.6	1.6
Religious Worship .....	43.5	26.2	2.9	1.4	0.8	4.4	0.8	1.7	0.1	4.9	0.3
Service .....	77.0	35.9	3.8	6.0	1.0	15.6	Q	2.1	0.3	11.4	1.0
Warehouse and Storage .....	45.2	19.3	1.3	2.0	0.6	13.1	Q	3.5	0.2	4.8	0.6
Other .....	164.4	79.4	10.5	6.1	2.1	34.1	Q	6.0	Q	18.9	3.0
Vacant .....	20.9	14.4	0.6	0.4	0.1	1.7	Q	Q	Q	3.1	Q
<b>Year Constructed</b>											
Before 1920 .....	80.2	47.7	1.8	2.9	4.4	9.1	4.4	4.4	0.5	3.9	1.2
1920 to 1945 .....	90.4	45.5	3.8	4.4	6.2	13.2	2.9	3.7	0.4	9.1	1.5
1946 to 1959 .....	80.9	39.1	4.5	4.9	6.3	12.9	1.9	3.7	0.6	5.7	1.9
1960 to 1969 .....	91.5	40.8	5.6	6.1	7.8	14.7	1.7	4.8	0.8	6.9	2.5
1970 to 1979 .....	97.0	32.3	7.9	7.0	8.3	21.6	2.6	5.2	1.1	8.6	2.6
1980 to 1989 .....	100.0	28.8	9.8	6.6	8.2	23.9	2.7	6.0	1.3	9.6	3.4
1990 to 1999 .....	90.2	25.2	9.2	7.2	6.0	21.0	2.9	6.5	1.3	8.4	2.9
2000 to 2003 .....	81.6	19.4	8.8	5.9	6.3	21.7	3.3	6.5	0.7	7.4	1.8
<b>Census Region and Division</b>											
Northeast .....	99.8	48.2	3.9	5.4	6.7	17.1	2.7	4.5	0.9	8.1	2.5
New England .....	99.8	53.9	3.0	4.5	5.8	16.0	1.9	6.0	0.7	6.0	2.3
Middle Atlantic .....	99.7	46.3	4.2	5.7	7.0	17.4	3.0	4.0	1.0	8.7	2.6
Midwest .....	99.4	48.3	3.7	6.0	5.9	17.3	2.1	5.1	0.9	8.1	2.4
East North Central .....	108.1	54.4	3.7	6.7	6.2	18.5	2.2	5.0	1.0	8.2	2.6
West North Central .....	80.2	34.8	3.8	4.6	5.3	14.6	1.8	5.3	0.6	7.8	1.9
South .....	84.7	19.4	11.5	6.7	7.1	20.3	3.1	6.3	0.8	7.4	2.5
South Atlantic .....	88.7	19.9	11.6	7.1	7.1	22.2	2.9	6.8	0.9	7.6	3.1
East South Central .....	91.4	30.3	7.2	6.6	8.6	19.5	2.7	6.8	0.6	7.6	1.8
West South Central .....	75.8	14.2	13.2	6.0	6.5	17.7	3.5	5.2	0.7	7.1	2.0
West .....	82.9	23.2	6.7	5.6	8.5	19.1	2.6	4.6	1.6	8.8	2.6
Mountain .....	106.1	39.8	7.4	6.4	9.7	22.4	1.8	4.8	Q	10.2	2.4
Pacific .....	71.6	15.2	6.4	5.2	7.9	17.5	2.9	4.5	Q	8.0	2.7

**Table E2A. Major Fuel Consumption (Btu) Intensities by End Use for All Buildings, 2003**

	Major Fuel Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings</b> .....	91.0	33.0	7.2	6.1	7.0	18.7	2.7	5.3	1.0	7.9	2.5
<b>Climate Zone: 30-Year Average</b>											
Under 2,000 CDD and --											
More than 7,000 HDD .....	94.2	48.1	2.4	5.7	5.8	15.6	1.9	5.4	0.8	6.9	1.9
5,500-7,000 HDD .....	102.6	48.5	4.0	5.8	6.8	18.7	2.5	5.0	0.9	8.2	2.5
4,000-5,499 HDD .....	99.4	37.0	6.3	6.1	7.6	20.7	3.0	5.2	1.5	9.4	2.8
Fewer than 4,000 HDD .....	78.6	18.6	8.1	6.1	7.6	18.7	3.0	5.7	0.9	7.9	2.4
2,000 CDD or More and --											
Fewer than 4,000 HDD .....	78.6	9.5	17.3	6.8	6.9	19.5	2.9	5.3	0.8	7.0	2.9
<b>Number of Establishments</b>											
One .....	92.3	34.6	6.4	6.0	8.0	17.5	3.1	6.4	0.9	7.4	2.2
2 to 5 .....	92.4	36.6	6.6	5.9	6.0	19.5	2.1	4.4	1.1	8.1	2.2
6 to 10 .....	112.6	40.1	9.4	7.5	5.7	26.6	2.5	3.3	1.2	11.1	5.3
11 to 20 .....	91.1	24.3	11.0	7.5	5.1	24.3	2.0	3.3	1.0	10.2	2.5
More than 20 .....	93.4	19.4	14.6	7.8	5.4	26.0	1.7	2.7	1.3	11.2	3.4
Currently Unoccupied .....	17.2	12.8	Q	0.1	(*)	1.2	Q	Q	Q	2.3	Q
<b>Energy Sources (more than one may apply)</b>											
Electricity .....	92.9	33.7	7.4	6.2	7.1	19.1	2.7	5.4	1.0	8.1	2.5
Natural Gas .....	104.0	38.7	7.3	6.9	9.0	20.4	3.8	5.3	1.0	9.2	2.5
Fuel Oil .....	114.8	42.0	8.7	8.0	12.5	23.9	2.2	2.9	1.5	9.8	3.4
District Heat .....	184.6	109.3	6.0	12.6	10.8	26.9	Q	2.2	0.8	8.9	5.6
<b>Energy End Uses (more than one may apply)</b>											
Buildings with Space Heating .....	95.9	35.6	7.3	6.4	7.4	19.5	2.8	5.4	1.0	8.1	2.5
Buildings with Cooling .....	96.7	33.7	8.1	6.6	7.5	20.2	2.9	5.8	1.1	8.4	2.6
Buildings with Water Heating .....	98.0	34.7	7.8	6.6	8.0	20.1	3.0	5.8	1.1	8.5	2.6

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/cbeecs>.

(\*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

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

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

**Table E3A. Electricity Consumption (Btu) by End Use for All Buildings, 2003**

	Total Electricity Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings</b> .....	3,559	167	481	436	88	1,340	24	381	69	156	418
<b>Building Floorspace (Square Feet)</b>											
1,001 to 5,000 .....	392	19	44	18	11	96	7	138	8	12	39
5,001 to 10,000 .....	293	18	38	18	8	95	4	57	6	10	39
10,001 to 25,000 .....	485	26	55	52	14	184	3	57	10	20	63
25,001 to 50,000 .....	397	18	62	55	12	140	2	37	7	17	48
50,001 to 100,000 .....	523	28	77	78	15	202	3	35	7	20	59
100,001 to 200,000 .....	587	23	82	91	11	234	1	30	14	33	68
200,001 to 500,000 .....	381	11	55	56	6	170	2	10	8	20	46
Over 500,000 .....	501	23	69	67	12	220	2	19	9	25	56
<b>Principal Building Activity</b>											
Education .....	371	15	74	83	11	113	2	16	4	32	21
Food Sales .....	208	6	12	7	Q	46	2	119	2	2	10
Food Service .....	217	10	28	24	10	42	13	70	2	2	15
Health Care .....	248	6	34	42	2	105	1	8	4	10	36
Inpatient .....	178	3	25	38	2	76	1	4	2	7	21
Outpatient .....	69	3	9	4	(*)	28	(*)	4	2	3	15
Lodging .....	235	14	24	14	12	124	2	12	Q	6	24
Mercantile .....	733	58	109	68	38	308	2	49	8	11	83
Retail (Other Than Mall) .....	211	6	25	16	2	111	(*)	22	3	4	22
Enclosed and Strip Malls .....	523	52	84	51	36	197	2	27	5	8	61
Office .....	719	33	101	63	7	281	1	35	32	74	91
Public Assembly .....	167	5	35	63	(*)	27	(*)	9	Q	3	23
Public Order and Safety .....	57	2	8	10	3	18	(*)	3	1	2	10
Religious Worship .....	62	3	11	5	(*)	17	(*)	6	(*)	1	18
Service .....	149	6	15	24	(*)	63	Q	9	1	3	28
Warehouse and Storage .....	244	5	13	20	2	132	Q	36	2	5	30
Other .....	133	2	16	11	Q	59	Q	10	Q	5	22
Vacant .....	15	1	2	1	Q	4	Q	(*)	Q	(*)	7
<b>Year Constructed</b>											
Before 1920 .....	91	2	6	11	Q	35	1	17	2	4	12
1920 to 1945 .....	215	4	17	30	2	92	1	26	3	8	31
1946 to 1959 .....	247	11	28	36	5	94	2	27	4	11	30
1960 to 1969 .....	359	13	47	53	7	127	1	42	7	19	43
1970 to 1979 .....	689	40	89	86	18	265	4	64	14	29	80
1980 to 1989 .....	789	42	118	82	24	298	5	74	17	39	91
1990 to 1999 .....	823	37	123	101	22	294	7	91	18	36	93
2000 to 2003 .....	347	17	54	37	7	136	3	41	4	10	38
<b>Census Region and Division</b>											
Northeast .....	587	33	43	76	12	239	3	63	13	32	73
New England .....	141	10	8	15	4	55	1	21	2	7	17
Middle Atlantic .....	446	23	35	60	8	184	2	42	11	25	57
Midwest .....	799	53	57	109	15	313	5	92	16	36	103
East North Central .....	574	33	38	83	10	230	4	62	12	27	74
West North Central .....	225	20	19	26	5	83	1	30	4	9	28
South .....	1,542	51	299	179	47	543	13	167	20	58	164
South Atlantic .....	865	31	154	99	29	311	8	95	12	37	88
East South Central .....	196	9	26	25	5	72	1	25	2	6	24
West South Central .....	481	11	118	54	13	160	4	47	6	15	52
West .....	631	29	82	72	14	245	3	59	20	30	77
Mountain .....	232	13	31	27	5	94	Q	20	Q	9	27
Pacific .....	399	17	51	45	9	151	2	39	14	21	50



**Table E3A. Electricity Consumption (Btu) by End Use for All Buildings, 2003**

	Total Electricity Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings</b> .....	3,559	167	481	436	88	1,340	24	381	69	156	418
<b>Climate Zone: 30-Year Average</b>											
Under 2,000 CDD and --											
More than 7,000 HDD .....	468	35	26	66	9	180	3	62	9	18	59
5,500-7,000 HDD .....	868	58	63	109	18	352	6	94	17	41	110
4,000-5,499 HDD .....	645	35	66	77	14	259	3	65	19	32	75
Fewer than 4,000 HDD .....	890	26	136	108	27	330	7	101	15	35	105
2,000 CDD or More and --											
Fewer than 4,000 HDD .....	689	13	190	76	21	219	5	59	8	29	70
<b>Number of Establishments</b>											
One .....	2,138	82	272	272	43	790	19	290	42	87	242
2 to 5 .....	616	27	80	74	14	245	3	55	13	26	78
6 to 10 .....	229	16	30	25	9	89	1	11	4	Q	27
11 to 20 .....	217	16	36	25	9	82	(*)	11	3	8	27
More than 20 .....	350	25	63	39	13	131	1	13	7	17	39
Currently Unoccupied .....	9	Q	Q	(*)	Q	3	Q	Q	Q	Q	5
<b>Energy Sources (more than one may apply)</b>											
Electricity .....	3,559	167	481	436	88	1,340	24	381	69	156	418
Natural Gas .....	2,534	103	323	333	51	987	18	259	47	114	300
Fuel Oil .....	937	40	122	129	18	389	4	47	25	52	111
District Heat .....	344	5	25	70	4	150	1	12	5	29	43
<b>Energy End Uses (more than one may apply)</b>											
Buildings with Space Heating ....	3,433	167	453	425	86	1,297	23	361	68	153	402
Buildings with Cooling .....	3,445	163	481	420	87	1,285	24	367	68	154	396
Buildings with Water Heating .....	3,379	160	458	417	88	1,262	24	362	67	152	389
<b>Annual Consumption (kilowatthours)</b>											
10,000 or Less .....	13	(*)	1	1	(*)	4	(*)	2	(*)	(*)	4
10,001 to 50,000 .....	155	8	19	10	2	55	(*)	22	3	5	29
50,001 to 100,000 .....	187	10	23	14	4	60	1	36	4	6	28
100,001 to 500,000 .....	812	46	94	80	23	270	11	151	15	29	94
500,001 to 1,000,000 .....	376	17	57	49	13	134	3	45	6	14	39
1,000,001 to 5,000,000 .....	1,137	54	162	168	29	428	5	89	19	58	125
Over 5,000,000 .....	880	33	124	114	17	388	3	35	22	44	99

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/cbeecs>.

(\*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

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

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

**Table E4A. Electricity Consumption (Btu) Intensities by End Use for All Buildings, 2003**

	Electricity Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings</b> .....	50.7	2.4	6.9	6.2	1.3	19.1	0.3	5.4	1.0	2.2	6.0
<b>Building Floorspace (Square Feet)</b>											
1,001 to 5,000 .....	60.6	2.9	6.8	2.8	1.7	14.8	1.1	21.2	1.2	1.8	6.0
5,001 to 10,000 .....	44.0	2.6	5.7	2.8	1.1	14.3	0.7	8.6	0.9	1.4	5.8
10,001 to 25,000 .....	38.8	2.1	4.4	4.1	1.1	14.7	0.2	4.5	0.8	1.6	5.1
25,001 to 50,000 .....	43.7	2.0	6.8	6.1	1.3	15.4	0.2	4.0	0.8	1.9	5.3
50,001 to 100,000 .....	50.9	2.7	7.5	7.6	1.4	19.6	0.3	3.4	0.7	2.0	5.8
100,001 to 200,000 .....	57.7	2.3	8.0	8.9	1.1	23.0	0.1	2.9	1.3	3.2	6.7
200,001 to 500,000 .....	51.8	1.5	7.4	7.5	0.8	23.0	0.2	1.3	1.1	2.7	6.2
Over 500,000 .....	65.4	3.0	9.0	8.8	1.5	28.7	0.3	2.4	1.2	3.2	7.3
<b>Principal Building Activity</b>											
Education .....	37.6	1.5	7.5	8.4	1.1	11.5	0.2	1.6	0.4	3.3	2.1
Food Sales .....	168.5	5.1	9.9	6.0	Q	37.2	1.9	96.1	1.6	1.5	8.1
Food Service .....	130.9	6.3	17.0	14.8	6.3	25.4	8.1	42.1	1.0	1.0	8.9
Health Care .....	78.3	1.9	10.6	13.3	0.8	33.1	0.2	2.6	1.2	3.2	11.3
Inpatient .....	93.7	1.6	13.0	20.0	1.1	40.1	0.4	2.0	1.1	3.6	10.9
Outpatient .....	55.0	2.3	7.0	3.3	0.3	22.6	0.1	3.5	1.3	2.6	12.0
Lodging .....	46.1	2.8	4.7	2.7	2.3	24.3	0.4	2.3	Q	1.2	4.7
Mercantile .....	65.5	5.2	9.7	6.0	3.4	27.5	0.2	4.4	0.7	1.0	7.4
Retail (Other Than Mall) .....	48.8	1.5	5.9	3.7	0.4	25.7	0.1	5.0	0.6	0.9	5.1
Enclosed and Strip Malls .....	76.0	7.5	12.2	7.5	5.2	28.6	0.3	4.0	0.8	1.1	8.8
Office .....	58.9	2.7	8.3	5.2	0.6	23.1	0.1	2.9	2.6	6.1	7.5
Public Assembly .....	42.6	1.3	8.9	15.9	0.1	7.0	0.1	2.2	Q	0.8	5.8
Public Order and Safety .....	52.3	1.6	7.2	9.5	3.0	16.5	0.1	2.9	0.6	1.5	9.2
Religious Worship .....	16.6	0.8	2.8	1.4	0.1	4.4	0.1	1.7	0.1	0.2	4.9
Service .....	37.5	1.4	3.8	6.1	0.1	15.8	Q	2.2	0.3	0.8	7.0
Warehouse and Storage .....	25.9	0.5	1.4	2.2	0.2	14.0	Q	3.8	0.2	0.5	3.2
Other .....	76.8	1.4	9.3	6.1	0.3	34.3	Q	6.0	Q	2.9	12.6
Vacant .....	8.3	0.5	0.8	0.5	Q	2.4	Q	0.2	Q	0.1	3.7
<b>Year Constructed</b>											
Before 1920 .....	24.2	0.5	1.7	2.9	Q	9.2	0.3	4.5	0.6	0.9	3.2
1920 to 1945 .....	32.1	0.7	2.5	4.5	0.4	13.8	0.2	3.9	0.4	1.2	4.6
1946 to 1959 .....	35.0	1.5	4.0	5.1	0.8	13.3	0.3	3.8	0.6	1.6	4.2
1960 to 1969 .....	41.8	1.6	5.4	6.2	0.9	14.8	0.1	4.8	0.8	2.2	5.0
1970 to 1979 .....	57.1	3.3	7.4	7.1	1.5	22.0	0.3	5.3	1.1	2.4	6.7
1980 to 1989 .....	64.2	3.4	9.6	6.7	2.0	24.2	0.4	6.0	1.4	3.2	7.4
1990 to 1999 .....	60.1	2.7	9.0	7.3	1.6	21.4	0.5	6.7	1.3	2.7	6.8
2000 to 2003 .....	57.6	2.9	8.9	6.2	1.2	22.5	0.5	6.7	0.7	1.6	6.3
<b>Census Region and Division</b>											
Northeast .....	42.2	2.4	3.1	5.5	0.9	17.2	0.2	4.5	0.9	2.3	5.3
New England .....	41.1	2.9	2.4	4.5	1.3	16.1	0.3	6.1	0.7	2.0	4.9
Middle Atlantic .....	42.6	2.2	3.4	5.8	0.7	17.5	0.1	4.0	1.0	2.4	5.4
Midwest .....	45.1	3.0	3.2	6.2	0.9	17.7	0.3	5.2	0.9	2.0	5.8
East North Central .....	47.0	2.7	3.1	6.8	0.8	18.9	0.3	5.1	1.0	2.2	6.1
West North Central .....	40.8	3.6	3.4	4.8	0.9	15.0	0.2	5.4	0.7	1.6	5.1
South .....	59.3	2.0	11.5	6.9	1.8	20.9	0.5	6.4	0.8	2.2	6.3
South Atlantic .....	62.5	2.2	11.1	7.2	2.1	22.5	0.6	6.9	0.9	2.7	6.4
East South Central .....	55.2	2.4	7.5	6.9	1.5	20.4	Q	7.1	0.6	1.6	6.8
West South Central .....	55.7	1.3	13.7	6.3	1.5	18.5	0.4	5.5	0.7	1.7	6.0
West .....	50.3	2.3	6.5	5.7	1.1	19.5	0.3	4.7	1.6	2.4	6.2
Mountain .....	55.7	3.1	7.3	6.5	1.1	22.6	0.2	4.8	Q	2.2	6.4
Pacific .....	47.7	2.0	6.1	5.4	1.1	18.0	0.3	4.6	1.7	2.5	6.0

**Table E4A. Electricity Consumption (Btu) Intensities by End Use for All Buildings, 2003**

	Electricity Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings</b> .....	50.7	2.4	6.9	6.2	1.3	19.1	0.3	5.4	1.0	2.2	6.0
<b>Climate Zone: 30-Year Average</b>											
Under 2,000 CDD and --											
More than 7,000 HDD .....	41.4	3.1	2.3	5.9	0.8	16.0	0.2	5.5	0.8	1.6	5.3
5,500-7,000 HDD .....	46.8	3.1	3.4	5.9	1.0	19.0	0.3	5.1	0.9	2.2	5.9
4,000-5,499 HDD .....	52.1	2.9	5.3	6.2	1.1	20.9	0.3	5.3	1.5	2.6	6.0
Fewer than 4,000 HDD .....	52.1	1.5	8.0	6.3	1.6	19.4	0.4	5.9	0.9	2.1	6.1
2,000 CDD or More and --											
Fewer than 4,000 HDD .....	63.3	1.2	17.5	7.0	1.9	20.1	0.5	5.4	0.8	2.7	6.4
<b>Number of Establishments</b>											
One .....	48.2	1.8	6.1	6.1	1.0	17.8	0.4	6.5	0.9	2.0	5.5
2 to 5 .....	49.2	2.2	6.4	5.9	1.1	19.6	0.2	4.4	1.1	2.1	6.2
6 to 10 .....	68.3	4.6	8.9	7.5	2.8	26.6	0.2	3.3	1.2	5.3	8.0
11 to 20 .....	64.5	4.8	10.6	7.5	2.6	24.3	0.1	3.3	1.0	2.4	8.1
More than 20 .....	69.1	4.9	12.4	7.8	2.7	26.0	0.3	2.7	1.3	3.4	7.8
Currently Unoccupied .....	6.2	Q	Q	0.2	Q	1.7	Q	Q	Q	Q	3.1
<b>Energy Sources (more than one may apply)</b>											
Electricity .....	50.7	2.4	6.9	6.2	1.3	19.1	0.3	5.4	1.0	2.2	6.0
Natural Gas .....	52.3	2.1	6.7	6.9	1.1	20.4	0.4	5.3	1.0	2.4	6.2
Fuel Oil .....	57.7	2.4	7.5	8.0	1.1	23.9	0.3	2.9	1.5	3.2	6.8
District Heat .....	61.8	0.9	4.5	12.6	0.7	26.9	0.2	2.2	0.8	5.3	7.7
<b>Energy End Uses (more than one may apply)</b>											
Buildings with Space Heating ....	51.7	2.5	6.8	6.4	1.3	19.5	0.3	5.4	1.0	2.3	6.1
Buildings with Cooling .....	54.2	2.6	7.6	6.6	1.4	20.2	0.4	5.8	1.1	2.4	6.2
Buildings with Water Heating .....	53.8	2.5	7.3	6.6	1.4	20.1	0.4	5.8	1.1	2.4	6.2
<b>Annual Consumption (kilowatthours)</b>											
10,000 or Less .....	4.6	0.1	0.4	0.3	(*)	1.5	(*)	0.7	(*)	0.1	1.4
10,001 to 50,000 .....	16.7	0.8	2.1	1.1	0.3	6.0	(*)	2.4	0.4	0.5	3.1
50,001 to 100,000 .....	27.8	1.4	3.5	2.1	0.6	9.0	0.2	5.3	0.6	0.9	4.2
100,001 to 500,000 .....	46.1	2.6	5.4	4.5	1.3	15.3	0.6	8.6	0.8	1.6	5.3
500,001 to 1,000,000 .....	51.0	2.2	7.8	6.6	1.7	18.2	0.5	6.1	0.8	1.9	5.3
1,000,001 to 5,000,000 .....	72.8	3.5	10.4	10.8	1.9	27.4	0.3	5.7	1.2	3.7	8.0
Over 5,000,000 .....	81.9	3.1	11.5	10.6	1.6	36.1	0.3	3.3	2.1	4.1	9.3

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>.

(\*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

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

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

**Table E5A. Electricity Consumption (kWh) by End Use for All Buildings, 2003**

	Total Electricity Consumption (billion kWh)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings</b> .....	1,043	49	141	128	26	393	7	112	20	46	122
<b>Building Floorspace (Square Feet)</b>											
1,001 to 5,000 .....	115	6	13	5	3	28	2	40	2	3	11
5,001 to 10,000 .....	86	5	11	5	2	28	1	17	2	3	11
10,001 to 25,000 .....	142	8	16	15	4	54	1	17	3	6	19
25,001 to 50,000 .....	116	5	18	16	3	41	(*)	11	2	5	14
50,001 to 100,000 .....	153	8	22	23	4	59	1	10	2	6	17
100,001 to 200,000 .....	172	7	24	27	3	68	(*)	9	4	10	20
200,001 to 500,000 .....	112	3	16	16	2	50	(*)	3	2	6	13
Over 500,000 .....	147	7	20	20	3	64	1	5	3	7	16
<b>Principal Building Activity</b>											
Education .....	109	4	22	24	3	33	(*)	5	1	9	6
Food Sales .....	61	2	4	2	Q	14	1	35	1	1	3
Food Service .....	63	3	8	7	3	12	4	20	(*)	1	4
Health Care .....	73	2	10	12	1	31	(*)	2	1	3	11
Inpatient .....	52	1	7	11	1	22	(*)	1	1	2	6
Outpatient .....	20	1	3	1	(*)	8	(*)	1	(*)	1	4
Lodging .....	69	4	7	4	3	36	1	3	Q	2	7
Mercantile .....	215	17	32	20	11	90	1	14	2	3	24
Retail (Other Than Mall) .....	62	2	7	5	1	33	(*)	6	1	1	6
Enclosed and Strip Malls .....	153	15	25	15	11	58	1	8	2	2	18
Office .....	211	10	30	18	2	82	(*)	10	9	22	27
Public Assembly .....	49	1	10	18	(*)	8	(*)	3	Q	1	7
Public Order and Safety .....	17	1	2	3	1	5	(*)	1	(*)	(*)	3
Religious Worship .....	18	1	3	2	(*)	5	(*)	2	(*)	(*)	5
Service .....	44	2	4	7	(*)	18	Q	3	(*)	1	8
Warehouse and Storage .....	72	1	4	6	1	39	Q	10	1	1	9
Other .....	39	1	5	3	Q	17	Q	3	Q	1	6
Vacant .....	4	(*)	(*)	(*)	Q	1	Q	(*)	Q	(*)	2
<b>Year Constructed</b>											
Before 1920 .....	27	1	2	3	Q	10	(*)	5	1	1	4
1920 to 1945 .....	63	1	5	9	1	27	(*)	8	1	2	9
1946 to 1959 .....	72	3	8	10	2	27	1	8	1	3	9
1960 to 1969 .....	105	4	14	16	2	37	(*)	12	2	6	13
1970 to 1979 .....	202	12	26	25	5	78	1	19	4	8	24
1980 to 1989 .....	231	12	34	24	7	87	1	22	5	11	27
1990 to 1999 .....	241	11	36	29	7	86	2	27	5	11	27
2000 to 2003 .....	102	5	16	11	2	40	1	12	1	3	11
<b>Census Region and Division</b>											
Northeast .....	172	10	13	22	3	70	1	18	4	9	22
New England .....	41	3	2	5	1	16	(*)	6	1	2	5
Middle Atlantic .....	131	7	10	18	2	54	(*)	12	3	7	17
Midwest .....	234	15	17	32	4	92	2	27	5	11	30
East North Central .....	168	10	11	24	3	67	1	18	3	8	22
West North Central .....	66	6	6	8	1	24	(*)	9	1	3	8
South .....	452	15	88	52	14	159	4	49	6	17	48
South Atlantic .....	254	9	45	29	9	91	2	28	4	11	26
East South Central .....	57	3	8	7	2	21	(*)	7	1	2	7
West South Central .....	141	3	35	16	4	47	1	14	2	4	15
West .....	185	9	24	21	4	72	1	17	6	9	23
Mountain .....	68	4	9	8	1	28	Q	6	Q	3	8
Pacific .....	117	5	15	13	3	44	1	11	4	6	15

**Table E5A. Electricity Consumption (kWh) by End Use for All Buildings, 2003**

	Total Electricity Consumption (billion kWh)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings</b> .....	1,043	49	141	128	26	393	7	112	20	46	122
<b>Climate Zone: 30-Year Average</b>											
Under 2,000 CDD and --											
More than 7,000 HDD .....	137	10	8	19	3	53	1	18	3	5	17
5,500-7,000 HDD .....	254	17	19	32	5	103	2	28	5	12	32
4,000-5,499 HDD .....	189	10	19	22	4	76	1	19	6	9	22
Fewer than 4,000 HDD .....	261	8	40	32	8	97	2	30	4	10	31
2,000 CDD or More and --											
Fewer than 4,000 HDD .....	202	4	56	22	6	64	1	17	2	9	20
<b>Number of Establishments</b>											
One .....	627	24	80	80	13	231	6	85	12	25	71
2 to 5 .....	180	8	24	22	4	72	1	16	4	8	23
6 to 10 .....	67	5	9	7	3	26	(*)	3	1	Q	8
11 to 20 .....	64	5	10	7	3	24	(*)	3	1	2	8
More than 20 .....	103	7	18	12	4	38	(*)	4	2	5	12
Currently Unoccupied .....	3	Q	Q	(*)	Q	1	Q	Q	Q	Q	1
<b>Energy Sources (more than one may apply)</b>											
Electricity .....	1,043	49	141	128	26	393	7	112	20	46	122
Natural Gas .....	743	30	95	98	15	289	5	76	14	33	88
Fuel Oil .....	275	12	36	38	5	114	1	14	7	15	33
District Heat .....	101	2	7	21	1	44	(*)	4	1	9	13
<b>Energy End Uses (more than one may apply)</b>											
Buildings with Space Heating ....	1,006	49	133	125	25	380	7	106	20	45	118
Buildings with Cooling .....	1,010	48	141	123	26	377	7	108	20	45	116
Buildings with Water Heating .....	990	47	134	122	26	370	7	106	20	45	114
<b>Annual Consumption (kilowatthours)</b>											
10,000 or Less .....	4	(*)	(*)	(*)	(*)	1	(*)	1	(*)	(*)	1
10,001 to 50,000 .....	45	2	6	3	1	16	(*)	7	1	1	8
50,001 to 100,000 .....	55	3	7	4	1	18	(*)	11	1	2	8
100,001 to 500,000 .....	238	13	28	23	7	79	3	44	4	8	27
500,001 to 1,000,000 .....	110	5	17	14	4	39	1	13	2	4	11
1,000,001 to 5,000,000 .....	333	16	47	49	8	125	1	26	5	17	37
Over 5,000,000 .....	258	10	36	33	5	114	1	10	7	13	29

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>.

(\*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

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

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

**Table E6A. Electricity Consumption (kWh) Intensities by End Use for All Buildings, 2003**

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings</b> .....	14.9	0.7	2.0	1.8	0.4	5.6	0.1	1.6	0.3	0.7	1.7
<b>Building Floorspace (Square Feet)</b>											
1,001 to 5,000 .....	17.8	0.9	2.0	0.8	0.5	4.4	0.3	6.2	0.4	0.5	1.8
5,001 to 10,000 .....	12.9	0.8	1.7	0.8	0.3	4.2	0.2	2.5	0.3	0.4	1.7
10,001 to 25,000 .....	11.4	0.6	1.3	1.2	0.3	4.3	0.1	1.3	0.2	0.5	1.5
25,001 to 50,000 .....	12.8	0.6	2.0	1.8	0.4	4.5	0.1	1.2	0.2	0.6	1.5
50,001 to 100,000 .....	14.9	0.8	2.2	2.2	0.4	5.8	0.1	1.0	0.2	0.6	1.7
100,001 to 200,000 .....	16.9	0.7	2.4	2.6	0.3	6.7	(*)	0.9	0.4	0.9	2.0
200,001 to 500,000 .....	15.2	0.4	2.2	2.2	0.2	6.8	0.1	0.4	0.3	0.8	1.8
Over 500,000 .....	19.2	0.9	2.6	2.6	0.4	8.4	0.1	0.7	0.3	0.9	2.1
<b>Principal Building Activity</b>											
Education .....	11.0	0.5	2.2	2.5	0.3	3.4	(*)	0.5	0.1	1.0	0.6
Food Sales .....	49.4	1.5	2.9	1.8	Q	10.9	0.6	28.2	0.5	0.4	2.4
Food Service .....	38.4	1.8	5.0	4.3	1.8	7.5	2.4	12.3	0.3	0.3	2.6
Health Care .....	22.9	0.5	3.1	3.9	0.2	9.7	0.1	0.8	0.3	0.9	3.3
Inpatient .....	27.5	0.5	3.8	5.9	0.3	11.7	0.1	0.6	0.3	1.0	3.2
Outpatient .....	16.1	0.7	2.1	1.0	0.1	6.6	(*)	1.0	0.4	0.8	3.5
Lodging .....	13.5	0.8	1.4	0.8	0.7	7.1	0.1	0.7	Q	0.4	1.4
Mercantile .....	19.2	1.5	2.9	1.8	1.0	8.1	0.1	1.3	0.2	0.3	2.2
Retail (Other Than Mall) .....	14.3	0.4	1.7	1.1	0.1	7.5	(*)	1.5	0.2	0.3	1.5
Enclosed and Strip Malls .....	22.3	2.2	3.6	2.2	1.5	8.4	0.1	1.2	0.2	0.3	2.6
Office .....	17.3	0.8	2.4	1.5	0.2	6.8	(*)	0.8	0.8	1.8	2.2
Public Assembly .....	12.5	0.4	2.6	4.7	(*)	2.0	(*)	0.7	Q	0.2	1.7
Public Order and Safety .....	15.3	0.5	2.1	2.8	0.9	4.8	(*)	0.9	0.2	0.4	2.7
Religious Worship .....	4.9	0.2	0.8	0.4	(*)	1.3	(*)	0.5	(*)	0.1	1.4
Service .....	11.0	0.4	1.1	1.8	(*)	4.6	Q	0.6	0.1	0.2	2.1
Warehouse and Storage .....	7.6	0.2	0.4	0.6	0.1	4.1	Q	1.1	0.1	0.1	0.9
Other .....	22.5	0.4	2.7	1.8	0.1	10.1	Q	1.8	Q	0.9	3.7
Vacant .....	2.4	0.1	0.2	0.2	Q	0.7	Q	0.1	Q	(*)	1.1
<b>Year Constructed</b>											
Before 1920 .....	7.1	0.2	0.5	0.9	Q	2.7	0.1	1.3	0.2	0.3	0.9
1920 to 1945 .....	9.4	0.2	0.7	1.3	0.1	4.0	0.1	1.1	0.1	0.4	1.3
1946 to 1959 .....	10.2	0.4	1.2	1.5	0.2	3.9	0.1	1.1	0.2	0.5	1.2
1960 to 1969 .....	12.3	0.5	1.6	1.8	0.3	4.3	(*)	1.4	0.2	0.6	1.5
1970 to 1979 .....	16.7	1.0	2.2	2.1	0.4	6.4	0.1	1.6	0.3	0.7	2.0
1980 to 1989 .....	18.8	1.0	2.8	2.0	0.6	7.1	0.1	1.8	0.4	0.9	2.2
1990 to 1999 .....	17.6	0.8	2.6	2.2	0.5	6.3	0.1	2.0	0.4	0.8	2.0
2000 to 2003 .....	16.9	0.8	2.6	1.8	0.4	6.6	0.1	2.0	0.2	0.5	1.9
<b>Census Region and Division</b>											
Northeast .....	12.4	0.7	0.9	1.6	0.3	5.0	0.1	1.3	0.3	0.7	1.5
New England .....	12.0	0.8	0.7	1.3	0.4	4.7	0.1	1.8	0.2	0.6	1.4
Middle Atlantic .....	12.5	0.7	1.0	1.7	0.2	5.1	(*)	1.2	0.3	0.7	1.6
Midwest .....	13.2	0.9	0.9	1.8	0.2	5.2	0.1	1.5	0.3	0.6	1.7
East North Central .....	13.8	0.8	0.9	2.0	0.2	5.5	0.1	1.5	0.3	0.7	1.8
West North Central .....	12.0	1.1	1.0	1.4	0.3	4.4	0.1	1.6	0.2	0.5	1.5
South .....	17.4	0.6	3.4	2.0	0.5	6.1	0.1	1.9	0.2	0.7	1.8
South Atlantic .....	18.3	0.7	3.3	2.1	0.6	6.6	0.2	2.0	0.3	0.8	1.9
East South Central .....	16.2	0.7	2.2	2.0	0.4	6.0	Q	2.1	0.2	0.5	2.0
West South Central .....	16.3	0.4	4.0	1.8	0.4	5.4	0.1	1.6	0.2	0.5	1.8
West .....	14.7	0.7	1.9	1.7	0.3	5.7	0.1	1.4	0.5	0.7	1.8
Mountain .....	16.3	0.9	2.2	1.9	0.3	6.6	0.1	1.4	Q	0.6	1.9
Pacific .....	14.0	0.6	1.8	1.6	0.3	5.3	0.1	1.4	0.5	0.7	1.8

**Table E6A. Electricity Consumption (kWh) Intensities by End Use for All Buildings, 2003**

	Electricity Energy Intensity (kWh/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings</b> .....	14.9	0.7	2.0	1.8	0.4	5.6	0.1	1.6	0.3	0.7	1.7
<b>Climate Zone: 30-Year Average</b>											
Under 2,000 CDD and --											
More than 7,000 HDD .....	12.1	0.9	0.7	1.7	0.2	4.7	0.1	1.6	0.2	0.5	1.5
5,500-7,000 HDD .....	13.7	0.9	1.0	1.7	0.3	5.6	0.1	1.5	0.3	0.6	1.7
4,000-5,499 HDD .....	15.3	0.8	1.6	1.8	0.3	6.1	0.1	1.5	0.5	0.8	1.8
Fewer than 4,000 HDD .....	15.3	0.5	2.3	1.8	0.5	5.7	0.1	1.7	0.3	0.6	1.8
2,000 CDD or More and --											
Fewer than 4,000 HDD .....	18.5	0.3	5.1	2.0	0.6	5.9	0.1	1.6	0.2	0.8	1.9
<b>Number of Establishments</b>											
One .....	14.1	0.5	1.8	1.8	0.3	5.2	0.1	1.9	0.3	0.6	1.6
2 to 5 .....	14.4	0.6	1.9	1.7	0.3	5.7	0.1	1.3	0.3	0.6	1.8
6 to 10 .....	20.0	1.4	2.6	2.2	0.8	7.8	(*)	1.0	0.4	1.6	2.3
11 to 20 .....	18.9	1.4	3.1	2.2	0.8	7.1	(*)	1.0	0.3	0.7	2.4
More than 20 .....	20.3	1.4	3.6	2.3	0.8	7.6	0.1	0.8	0.4	1.0	2.3
Currently Unoccupied .....	1.8	Q	Q	(*)	Q	0.5	Q	Q	Q	Q	0.9
<b>Energy Sources (more than one may apply)</b>											
Electricity .....	14.9	0.7	2.0	1.8	0.4	5.6	0.1	1.6	0.3	0.7	1.7
Natural Gas .....	15.3	0.6	2.0	2.0	0.3	6.0	0.1	1.6	0.3	0.7	1.8
Fuel Oil .....	16.9	0.7	2.2	2.3	0.3	7.0	0.1	0.8	0.5	0.9	2.0
District Heat .....	18.1	0.3	1.3	3.7	0.2	7.9	(*)	0.7	0.2	1.5	2.3
<b>Energy End Uses (more than one may apply)</b>											
Buildings with Space Heating ....	15.2	0.7	2.0	1.9	0.4	5.7	0.1	1.6	0.3	0.7	1.8
Buildings with Cooling .....	15.9	0.8	2.2	1.9	0.4	5.9	0.1	1.7	0.3	0.7	1.8
Buildings with Water Heating ....	15.8	0.7	2.1	1.9	0.4	5.9	0.1	1.7	0.3	0.7	1.8
<b>Annual Consumption (kilowatthours)</b>											
10,000 or Less .....	1.3	(*)	0.1	0.1	(*)	0.4	(*)	0.2	(*)	(*)	0.4
10,001 to 50,000 .....	4.9	0.2	0.6	0.3	0.1	1.8	(*)	0.7	0.1	0.2	0.9
50,001 to 100,000 .....	8.1	0.4	1.0	0.6	0.2	2.6	0.1	1.6	0.2	0.3	1.2
100,001 to 500,000 .....	13.5	0.8	1.6	1.3	0.4	4.5	0.2	2.5	0.2	0.5	1.6
500,001 to 1,000,000 .....	15.0	0.7	2.3	1.9	0.5	5.3	0.1	1.8	0.2	0.5	1.5
1,000,001 to 5,000,000 .....	21.4	1.0	3.0	3.2	0.5	8.0	0.1	1.7	0.4	1.1	2.3
Over 5,000,000 .....	24.0	0.9	3.4	3.1	0.5	10.6	0.1	1.0	0.6	1.2	2.7

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/cbeecs>.

(\*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

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

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

**Table E7A. Natural Gas Consumption (Btu) and Energy Intensities by End Use for All Buildings, 2003**

	Total Natural Gas Consumption (trillion Btu)					Natural Gas Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings</b> .....	2,100	1,420	348	164	168	43.3	29.3	7.2	3.4	3.5
<b>Building Floorspace (Square Feet)</b>										
1,001 to 5,000 .....	257	161	36	42	18	81.0	50.6	11.3	13.3	5.8
5,001 to 10,000 .....	224	152	33	32	7	56.5	38.3	8.4	8.1	1.7
10,001 to 25,000 .....	353	273	35	26	19	45.2	34.9	4.5	3.3	2.4
25,001 to 50,000 .....	278	202	43	14	Q	42.2	30.6	6.5	2.1	3.0
50,001 to 100,000 .....	277	192	47	14	25	36.9	25.6	6.2	1.8	3.3
100,001 to 200,000 .....	275	187	58	10	20	36.5	24.8	7.7	1.3	2.7
200,001 to 500,000 .....	211	138	44	11	17	35.8	23.4	7.5	1.9	2.9
Over 500,000 .....	224	115	52	14	42	37.5	19.3	8.7	2.4	7.0
<b>Principal Building Activity</b>										
Education .....	268	207	37	5	19	38.1	29.5	5.2	0.7	2.7
Food Sales .....	39	27	2	8	Q	51.7	35.6	3.2	11.2	Q
Food Service .....	203	54	56	91	Q	145.6	39.0	40.0	65.4	Q
Health Care .....	243	136	74	10	23	95.3	53.6	28.9	3.8	9.1
Inpatient .....	204	103	71	9	21	113.2	56.8	39.4	5.2	11.9
Outpatient .....	38	34	3	Q	Q	51.8	45.6	3.5	Q	Q
Lodging .....	215	64	124	14	Q	50.4	15.0	29.2	3.3	Q
Mercantile .....	264	188	19	24	33	33.5	23.9	2.4	3.1	4.1
Retail (Other Than Mall) .....	91	84	3	3	2	31.9	29.3	1.0	0.9	0.7
Enclosed and Strip Malls .....	172	104	16	22	31	34.4	20.9	3.1	4.3	6.1
Office .....	269	230	13	3	23	32.8	28.1	1.6	0.3	2.8
Public Assembly .....	102	92	2	3	Q	37.5	33.8	0.9	1.0	Q
Public Order and Safety .....	29	15	10	Q	Q	45.0	24.1	15.1	Q	Q
Religious Worship .....	82	77	2	3	Q	31.2	29.1	0.9	1.0	Q
Service .....	139	119	2	Q	17	55.8	47.8	0.9	Q	Q
Warehouse and Storage .....	132	111	4	Q	Q	24.1	20.2	0.7	Q	Q
Other .....	87	72	2	Q	12	69.7	57.9	1.7	Q	9.4
Vacant .....	28	26	Q	Q	Q	23.7	22.0	Q	Q	Q
<b>Year Constructed</b>										
Before 1920 .....	143	114	12	15	Q	51.7	41.0	4.4	5.5	Q
1920 to 1945 .....	232	152	24	18	38	48.6	31.8	5.1	3.8	7.9
1946 to 1959 .....	223	163	35	11	14	45.9	33.5	7.2	2.4	2.8
1960 to 1969 .....	276	200	47	12	17	44.9	32.6	7.6	2.0	2.7
1970 to 1979 .....	402	272	72	28	30	45.7	31.0	8.2	3.1	3.4
1980 to 1989 .....	339	207	72	28	31	43.3	26.4	9.2	3.6	4.0
1990 to 1999 .....	345	226	58	33	27	37.5	24.6	6.3	3.6	3.0
2000 to 2003 .....	140	86	28	17	9	34.3	21.0	6.9	4.2	2.2
<b>Census Region and Division</b>										
Northeast .....	462	332	51	34	45	45.5	32.7	5.1	3.3	4.4
New England .....	87	69	Q	Q	5	46.8	36.9	4.3	2.8	2.9
Middle Atlantic .....	375	263	44	29	39	45.2	31.7	5.2	3.5	4.7
Midwest .....	751	589	82	32	47	53.1	41.7	5.8	2.3	3.3
East North Central .....	567	452	62	23	30	54.8	43.7	6.0	2.2	2.9
West North Central .....	184	137	20	9	Q	48.5	36.2	5.4	2.4	4.5
South .....	527	291	129	68	38	34.5	19.1	8.4	4.5	2.5
South Atlantic .....	246	132	60	32	22	33.7	18.1	8.2	4.4	3.0
East South Central .....	107	69	25	8	5	42.6	27.4	10.0	3.3	1.8
West South Central .....	174	90	44	28	12	31.8	16.5	8.0	5.1	2.2
West .....	360	208	85	29	38	40.5	23.4	9.6	3.3	4.3
Mountain .....	190	132	35	6	17	58.4	40.5	10.8	2.0	5.1
Pacific .....	170	76	50	23	21	30.1	13.5	8.9	4.0	3.8



**Table E7A. Natural Gas Consumption (Btu) and Energy Intensities by End Use for All Buildings, 2003**

	Total Natural Gas Consumption (trillion Btu)					Natural Gas Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings</b> .....	2,100	1,420	348	164	168	43.3	29.3	7.2	3.4	3.5
<b>Climate Zone: 30-Year Average</b>										
Under 2,000 CDD and --										
More than 7,000 HDD .....	468	381	48	18	20	55.2	44.9	5.7	2.2	2.4
5,500-7,000 HDD .....	737	553	96	40	49	52.2	39.1	6.8	2.8	3.5
4,000-5,499 HDD .....	368	231	55	32	49	41.0	25.8	6.1	3.6	5.5
Fewer than 4,000 HDD .....	389	209	96	46	39	33.0	17.7	8.1	3.9	3.3
2,000 CDD or More and --										
Fewer than 4,000 HDD .....	138	46	54	27	11	27.1	9.0	10.5	5.4	2.2
<b>Number of Establishments</b>										
One .....	1,462	971	275	118	98	47.9	31.8	9.0	3.9	3.2
2 to 5 .....	359	265	45	24	24	41.2	30.5	5.2	2.7	2.8
6 to 10 .....	95	68	9	8	11	39.8	28.5	3.7	3.1	4.4
11 to 20 .....	69	47	8	6	8	31.1	21.0	3.5	2.9	3.7
More than 20 .....	96	52	11	7	Q	26.1	14.0	3.0	2.0	Q
Currently Unoccupied .....	18	17	(*)	Q	Q	19.4	18.5	0.1	Q	Q
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	2,100	1,420	348	164	168	43.3	29.3	7.2	3.4	3.5
Natural Gas .....	2,100	1,420	348	164	168	43.3	29.3	7.2	3.4	3.5
Fuel Oil .....	523	291	147	30	55	46.3	25.7	13.0	2.7	4.8
District Heat .....	48	24	10	7	6	18.6	9.4	4.0	2.8	2.4
<b>Energy End Uses (more than one may apply)</b>										
Buildings with Space Heating ....	2,077	1,420	343	158	155	43.4	29.7	7.2	3.3	3.3
Buildings with Cooling .....	1,987	1,337	335	160	155	43.3	29.1	7.3	3.5	3.4
Buildings with Water Heating .....	2,035	1,361	348	163	163	44.4	29.7	7.6	3.6	3.6
<b>Annual Consumption (hundred cubic feet)</b>										
1,000 or Less .....	37	31	4	1	Q	8.4	7.0	1.0	0.3	Q
1,001 to 5,000 .....	265	218	25	16	6	25.5	21.0	2.4	1.6	0.6
5,001 to 10,000 .....	274	192	36	36	9	39.4	27.6	5.2	5.2	1.3
10,001 to 25,000 .....	402	261	65	47	30	46.8	30.4	7.5	5.4	3.5
25,001 to 50,000 .....	334	223	49	33	28	49.1	32.8	7.2	4.9	4.2
50,001 to 100,000 .....	242	159	42	10	31	51.2	33.7	8.9	2.1	6.6
Over 100,000 .....	546	336	127	20	63	82.4	50.8	19.2	3.0	9.5

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>.

(\*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

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

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

**Table E8A. Natural Gas Consumption (cubic feet) and Energy Intensities by End Use for All Buildings, 2003**

	Total Natural Gas Consumption (billion cubic feet)					Natural Gas Energy Intensity (cubic feet/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings</b> .....	2,037	1,378	338	159	163	42.0	28.4	7.0	3.3	3.4
<b>Building Floorspace (Square Feet)</b>										
1,001 to 5,000 .....	249	156	35	41	18	78.6	49.1	11.0	12.9	5.6
5,001 to 10,000 .....	218	147	32	31	7	54.8	37.1	8.1	7.9	1.7
10,001 to 25,000 .....	343	265	34	25	18	43.8	33.9	4.4	3.2	2.3
25,001 to 50,000 .....	270	196	41	13	Q	40.9	29.7	6.3	2.0	2.9
50,001 to 100,000 .....	269	186	45	13	24	35.8	24.8	6.0	1.8	3.2
100,001 to 200,000 .....	267	182	56	10	19	35.4	24.1	7.4	1.3	2.6
200,001 to 500,000 .....	204	134	43	11	17	34.7	22.7	7.3	1.8	2.9
Over 500,000 .....	217	112	51	14	41	36.4	18.7	8.5	2.3	6.8
<b>Principal Building Activity</b>										
Education .....	260	201	36	5	18	36.9	28.6	5.1	0.7	2.6
Food Sales .....	37	26	2	8	Q	50.2	34.5	3.1	10.9	Q
Food Service .....	197	53	54	89	Q	141.2	37.8	38.8	63.5	Q
Health Care .....	235	132	71	9	22	92.5	51.9	28.1	3.7	8.8
Inpatient .....	198	99	69	9	21	109.8	55.1	38.2	5.0	11.5
Outpatient .....	37	33	2	Q	Q	50.2	44.3	3.4	Q	Q
Lodging .....	208	62	121	14	Q	48.9	14.6	28.3	3.2	Q
Mercantile .....	256	183	18	23	32	32.5	23.2	2.3	3.0	4.0
Retail (Other Than Mall) .....	89	81	3	2	2	30.9	28.4	1.0	0.8	0.7
Enclosed and Strip Malls .....	167	101	15	21	30	33.4	20.2	3.0	4.2	5.9
Office .....	261	223	13	2	22	31.8	27.2	1.6	0.3	2.7
Public Assembly .....	99	89	2	3	Q	36.4	32.8	0.9	1.0	Q
Public Order and Safety .....	28	15	9	Q	Q	43.7	23.3	14.7	Q	Q
Religious Worship .....	80	74	2	3	Q	30.3	28.3	0.9	1.0	Q
Service .....	135	116	2	Q	17	54.1	46.3	0.9	Q	Q
Warehouse and Storage .....	128	108	4	Q	Q	23.4	19.6	0.7	Q	Q
Other .....	85	70	2	Q	11	67.6	56.1	1.6	Q	9.1
Vacant .....	27	25	Q	Q	Q	23.0	21.3	Q	Q	Q
<b>Year Constructed</b>										
Before 1920 .....	139	110	12	15	Q	50.2	39.8	4.2	5.3	Q
1920 to 1945 .....	225	147	24	18	37	47.1	30.8	4.9	3.7	7.7
1946 to 1959 .....	216	158	34	11	13	44.5	32.5	6.9	2.3	2.7
1960 to 1969 .....	268	194	45	12	16	43.6	31.6	7.3	2.0	2.6
1970 to 1979 .....	390	264	70	27	29	44.3	30.0	8.0	3.0	3.3
1980 to 1989 .....	328	201	70	28	30	42.0	25.7	8.9	3.5	3.9
1990 to 1999 .....	334	220	56	32	27	36.3	23.9	6.1	3.5	2.9
2000 to 2003 .....	136	83	27	17	9	33.2	20.4	6.7	4.1	2.1
<b>Census Region and Division</b>										
Northeast .....	448	322	50	33	43	44.1	31.7	4.9	3.2	4.3
New England .....	85	67	Q	Q	5	45.4	35.8	4.1	2.7	2.8
Middle Atlantic .....	364	255	42	28	38	43.8	30.8	5.1	3.4	4.6
Midwest .....	728	571	80	31	45	51.5	40.4	5.7	2.2	3.2
East North Central .....	550	439	60	23	29	53.1	42.3	5.8	2.2	2.8
West North Central .....	178	133	20	9	Q	47.0	35.1	5.2	2.3	4.4
South .....	511	283	125	66	37	33.5	18.5	8.2	4.3	2.4
South Atlantic .....	238	128	58	31	21	32.7	17.6	8.0	4.3	2.9
East South Central .....	104	67	24	8	4	41.3	26.6	9.7	3.2	1.7
West South Central .....	168	87	42	27	12	30.9	16.0	7.8	4.9	2.1
West .....	350	202	83	28	37	39.3	22.6	9.3	3.2	4.1
Mountain .....	185	128	34	6	16	56.6	39.2	10.5	1.9	5.0
Pacific .....	165	74	49	22	21	29.2	13.1	8.6	3.9	3.7

**Table E8A. Natural Gas Consumption (cubic feet) and Energy Intensities by End Use for All Buildings, 2003**

	Total Natural Gas Consumption (billion cubic feet)					Natural Gas Energy Intensity (cubic feet/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings</b> .....	2,037	1,378	338	159	163	42.0	28.4	7.0	3.3	3.4
<b>Climate Zone: 30-Year Average</b>										
Under 2,000 CDD and --										
More than 7,000 HDD .....	454	370	47	18	20	53.5	43.6	5.5	2.1	2.3
5,500-7,000 HDD .....	715	536	93	38	47	50.6	38.0	6.6	2.7	3.4
4,000-5,499 HDD .....	356	224	53	31	48	39.7	25.0	5.9	3.5	5.3
Fewer than 4,000 HDD .....	378	203	93	45	38	32.0	17.2	7.9	3.8	3.2
2,000 CDD or More and --										
Fewer than 4,000 HDD .....	134	45	52	27	11	26.3	8.8	10.2	5.2	2.1
<b>Number of Establishments</b>										
One .....	1,418	942	267	115	95	46.5	30.9	8.7	3.8	3.1
2 to 5 .....	348	257	44	23	24	40.0	29.5	5.0	2.7	2.7
6 to 10 .....	92	66	9	7	10	38.6	27.6	3.6	3.0	4.3
11 to 20 .....	67	45	8	6	8	30.2	20.4	3.4	2.8	3.6
More than 20 .....	93	50	11	7	Q	25.3	13.6	2.9	1.9	Q
Currently Unoccupied .....	18	17	(*)	Q	Q	18.8	18.0	0.1	Q	Q
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	2,037	1,378	338	159	163	42.0	28.4	7.0	3.3	3.4
Natural Gas .....	2,037	1,378	338	159	163	42.0	28.4	7.0	3.3	3.4
Fuel Oil .....	507	282	143	29	53	44.9	25.0	12.6	2.6	4.7
District Heat .....	47	23	10	7	6	18.0	9.1	3.9	2.7	2.3
<b>Energy End Uses (more than one may apply)</b>										
Buildings with Space Heating ....	2,014	1,378	333	153	151	42.1	28.8	7.0	3.2	3.2
Buildings with Cooling .....	1,927	1,296	325	155	151	42.0	28.3	7.1	3.4	3.3
Buildings with Water Heating .....	1,974	1,320	338	158	158	43.0	28.8	7.4	3.5	3.5
<b>Annual Consumption (hundred cubic feet)</b>										
1,000 or Less .....	36	30	4	1	Q	8.2	6.8	1.0	0.3	Q
1,001 to 5,000 .....	257	211	24	16	6	24.8	20.4	2.3	1.5	0.6
5,001 to 10,000 .....	265	186	35	35	9	38.2	26.8	5.1	5.1	1.3
10,001 to 25,000 .....	390	253	63	45	29	45.4	29.4	7.3	5.2	3.4
25,001 to 50,000 .....	324	217	47	32	28	47.6	31.9	7.0	4.8	4.0
50,001 to 100,000 .....	234	154	41	9	30	49.7	32.7	8.6	2.0	6.4
Over 100,000 .....	529	326	123	19	61	79.9	49.3	18.6	2.9	9.2

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>.

(\*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

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

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

**Table E9A. Fuel Oil Consumption (Btu) and Energy Intensities by End Use for All Buildings, 2003**

	Total Fuel Oil Consumption (trillion Btu)					Fuel Oil Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings</b> .....	228	198	18	Q	10	14.0	12.2	1.1	Q	0.6
<b>Building Floorspace (Square Feet)</b>										
1,001 to 5,000 .....	34	32	Q	(*)	Q	56.9	52.2	Q	(*)	Q
5,001 to 10,000 .....	36	33	Q	(*)	Q	49.4	44.7	Q	0.1	Q
10,001 to 25,000 .....	28	25	1	(*)	Q	26.7	23.8	1.4	0.1	Q
25,001 to 50,000 .....	17	16	Q	(*)	1	19.1	17.8	Q	(*)	0.6
50,001 to 100,000 .....	29	26	1	Q	1	15.6	14.1	0.7	Q	0.5
100,001 to 200,000 .....	37	35	Q	Q	1	12.5	11.5	Q	Q	0.5
200,001 to 500,000 .....	36	25	Q	Q	2	10.5	7.4	2.4	Q	0.5
Over 500,000 .....	10	Q	Q	Q	2	2.1	Q	Q	Q	0.4
<b>Principal Building Activity</b>										
Education .....	47	45	2	Q	Q	25.4	23.9	0.8	Q	0.3
Food Sales .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Health Care .....	11	6	2	Q	2	5.6	3.3	0.8	Q	1.3
Inpatient .....	9	5	2	Q	2	5.3	2.9	0.9	Q	1.4
Outpatient .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Lodging .....	35	25	Q	(*)	1	16.1	11.2	Q	0.2	0.3
Mercantile .....	21	Q	Q	(*)	Q	Q	Q	Q	Q	Q
Retail (Other Than Mall) .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Enclosed and Strip Malls .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Office .....	18	15	Q	Q	1	4.3	3.8	Q	Q	0.4
Public Assembly .....	29	28	Q	(*)	Q	30.7	29.7	Q	(*)	Q
Public Order and Safety .....	8	6	Q	(*)	Q	Q	Q	Q	Q	Q
Religious Worship .....	18	18	Q	(*)	Q	39.8	39.3	Q	(*)	Q
Service .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Warehouse and Storage .....	9	Q	Q	(*)	Q	7.3	6.3	Q	0.1	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Year Constructed</b>										
Before 1920 .....	38	35	Q	(*)	Q	39.3	36.4	Q	0.2	Q
1920 to 1945 .....	55	45	9	Q	(*)	27.2	22.3	4.7	Q	0.1
1946 to 1959 .....	48	45	Q	(*)	Q	22.8	21.3	Q	(*)	Q
1960 to 1969 .....	Q	Q	Q	Q	Q	21.7	19.7	Q	Q	0.7
1970 to 1979 .....	23	19	1	Q	2	9.5	8.1	0.6	Q	0.8
1980 to 1989 .....	12	9	1	Q	2	3.5	2.7	0.2	Q	0.6
1990 to 1999 .....	9	6	Q	Q	2	3.9	2.8	Q	Q	0.9
2000 to 2003 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Census Region and Division</b>										
Northeast .....	181	160	15	Q	4	27.9	24.7	2.4	Q	0.7
New England .....	74	68	5	(*)	1	41.3	38.2	2.8	0.1	Q
Middle Atlantic .....	107	92	Q	Q	4	22.8	19.6	Q	Q	0.8
Midwest .....	24	Q	1	Q	1	8.2	7.5	0.2	Q	0.5
East North Central .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
West North Central .....	Q	Q	Q	Q	Q	13.5	12.1	0.5	0.1	Q
South .....	15	10	Q	Q	4	3.2	2.2	Q	Q	0.8
South Atlantic .....	13	10	Q	Q	3	4.5	3.2	Q	Q	1.0
East South Central .....	1	(*)	(*)	(*)	(*)	2.7	1.2	(*)	1.0	0.5
West South Central .....	1	(*)	Q	(*)	(*)	0.5	0.2	Q	(*)	0.3
West .....	9	Q	Q	Q	1	Q	Q	Q	Q	Q
Mountain .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Pacific .....	4	2	Q	(*)	1	2.6	1.3	Q	(*)	0.4

**Table E9A. Fuel Oil Consumption (Btu) and Energy Intensities by End Use for All Buildings, 2003**

	Total Fuel Oil Consumption (trillion Btu)					Fuel Oil Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings</b> .....	228	198	18	Q	10	14.0	12.2	1.1	Q	0.6
<b>Climate Zone: 30-Year Average</b>										
Under 2,000 CDD and --										
More than 7,000 HDD .....	63	59	2	Q	2	23.9	22.4	0.7	Q	0.7
5,500-7,000 HDD .....	67	61	4	Q	2	15.7	14.2	1.0	Q	0.4
4,000-5,499 HDD .....	91	76	Q	Q	4	18.4	15.3	Q	Q	0.7
Fewer than 4,000 HDD .....	6	2	Q	Q	2	2.4	0.9	Q	Q	0.9
2,000 CDD or More and --										
Fewer than 4,000 HDD .....	1	Q	Q	(*)	1	0.5	0.2	Q	(*)	0.3
<b>Number of Establishments</b>										
One .....	183	161	14	Q	7	19.8	17.5	1.5	Q	0.7
2 to 5 .....	31	26	3	(*)	2	10.9	9.1	1.0	(*)	0.8
6 to 10 .....	7	6	Q	Q	(*)	10.2	8.5	Q	Q	0.4
11 to 20 .....	Q	Q	Q	Q	Q	2.9	Q	Q	(*)	Q
More than 20 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	228	198	18	Q	10	14.0	12.2	1.1	Q	0.6
Natural Gas .....	101	83	10	Q	7	8.9	7.4	0.9	Q	0.6
Fuel Oil .....	228	198	18	Q	10	14.0	12.2	1.1	Q	0.6
District Heat .....	1	Q	Q	Q	1	0.7	Q	Q	Q	0.5
<b>Energy End Uses (more than one may apply)</b>										
Buildings with Space Heating ....	225	198	15	Q	10	14.0	12.4	1.0	Q	0.6
Buildings with Cooling .....	181	155	15	Q	9	12.1	10.4	1.0	Q	0.6
Buildings with Water Heating .....	218	189	18	Q	9	13.9	12.1	1.2	Q	0.6
<b>Annual Consumption (gallons)</b>										
1,000 or Less .....	14	10	Q	Q	3	1.5	1.1	Q	Q	0.3
1,001 to 5,000 .....	45	39	Q	Q	3	14.5	12.6	Q	Q	1.0
5,001 to 10,000 .....	29	25	Q	(*)	Q	31.0	26.4	Q	0.1	1.3
10,001 to 25,000 .....	31	29	(*)	(*)	1	31.0	29.5	0.5	0.1	1.0
Over 25,000 .....	110	95	12	Q	2	49.8	43.1	5.2	Q	0.9

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>.

(\*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

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

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

**Table E10A. Fuel Oil Consumption (gallons) and Energy Intensities by End Use for All Buildings, 2003**

	Total Fuel Oil Consumption (million gallons)					Fuel Oil Energy Intensity (gallons/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings.....</b>	1,644	1,429	131	Q	72	0.10	0.09	0.01	Q	(*)
<b>Building Floorspace (Square Feet)</b>										
1,001 to 5,000 .....	249	228	Q	(*)	Q	0.41	0.38	Q	(*)	Q
5,001 to 10,000 .....	262	237	Q	1	Q	0.36	0.32	Q	(*)	Q
10,001 to 25,000 .....	201	179	11	(*)	Q	0.19	0.17	0.01	(*)	Q
25,001 to 50,000 .....	124	115	Q	(*)	4	0.14	0.13	Q	(*)	(*)
50,001 to 100,000 .....	209	188	10	Q	7	0.11	0.10	0.01	Q	(*)
100,001 to 200,000 .....	270	250	Q	Q	10	0.09	0.08	Q	Q	(*)
200,001 to 500,000 .....	258	183	Q	Q	11	0.08	0.05	0.02	Q	(*)
Over 500,000 .....	72	Q	Q	Q	15	0.02	Q	Q	Q	(*)
<b>Principal Building Activity</b>										
Education .....	342	322	11	Q	Q	0.18	0.17	0.01	Q	(*)
Food Sales .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Health Care .....	76	45	11	Q	18	0.04	0.02	0.01	Q	0.01
Inpatient .....	65	35	11	Q	17	0.04	0.02	0.01	Q	0.01
Outpatient .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Lodging .....	255	177	Q	3	5	0.12	0.08	Q	(*)	(*)
Mercantile .....	155	Q	Q	(*)	Q	Q	Q	Q	Q	Q
Retail (Other Than Mall) .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Enclosed and Strip Malls .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Office .....	126	112	Q	Q	11	0.03	0.03	Q	Q	(*)
Public Assembly .....	208	201	Q	(*)	Q	0.22	0.21	Q	(*)	Q
Public Order and Safety .....	57	41	Q	(*)	Q	Q	Q	Q	Q	Q
Religious Worship .....	130	129	Q	(*)	Q	0.29	0.28	Q	(*)	Q
Service .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Warehouse and Storage .....	66	Q	Q	1	Q	0.05	0.05	Q	(*)	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Year Constructed</b>										
Before 1920 .....	273	253	Q	2	Q	0.28	0.26	Q	(*)	Q
1920 to 1945 .....	396	325	68	Q	2	0.20	0.16	0.03	Q	(*)
1946 to 1959 .....	347	323	Q	1	Q	0.16	0.15	Q	(*)	Q
1960 to 1969 .....	Q	Q	Q	Q	Q	0.16	0.14	Q	Q	(*)
1970 to 1979 .....	164	139	10	Q	14	0.07	0.06	(*)	Q	0.01
1980 to 1989 .....	87	67	5	Q	15	0.03	0.02	(*)	Q	(*)
1990 to 1999 .....	65	46	Q	Q	15	0.03	0.02	Q	Q	0.01
2000 to 2003 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Census Region and Division</b>										
Northeast .....	1,302	1,153	111	Q	30	0.20	0.18	0.02	Q	(*)
New England .....	531	490	35	1	4	0.30	0.28	0.02	(*)	Q
Middle Atlantic .....	771	663	Q	Q	26	0.16	0.14	Q	Q	0.01
Midwest .....	172	Q	4	Q	10	0.06	0.05	(*)	Q	(*)
East North Central .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
West North Central .....	Q	Q	Q	Q	Q	0.10	0.09	(*)	(*)	Q
South .....	107	73	Q	Q	25	0.02	0.02	Q	Q	0.01
South Atlantic .....	96	69	Q	Q	21	0.03	0.02	Q	Q	0.01
East South Central .....	7	3	(*)	2	1	0.02	0.01	(*)	0.01	(*)
West South Central .....	5	1	Q	(*)	3	(*)	(*)	Q	(*)	(*)
West .....	64	Q	Q	Q	7	Q	Q	Q	Q	(*)
Mountain .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Pacific .....	29	15	Q	(*)	5	0.02	0.01	Q	(*)	(*)

**Table E10A. Fuel Oil Consumption (gallons) and Energy Intensities by End Use for All Buildings, 2003**

	Total Fuel Oil Consumption (million gallons)					Fuel Oil Energy Intensity (gallons/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings.....</b>	1,644	1,429	131	Q	72	0.10	0.09	0.01	Q	(*)
<b>Climate Zone: 30-Year Average</b>										
Under 2,000 CDD and --										
More than 7,000 HDD .....	452	425	13	Q	13	0.17	0.16	(*)	Q	(*)
5,500-7,000 HDD .....	485	438	32	Q	14	0.11	0.10	0.01	Q	(*)
4,000-5,499 HDD .....	655	547	Q	Q	26	0.13	0.11	Q	Q	0.01
Fewer than 4,000 HDD .....	44	17	Q	Q	16	0.02	0.01	Q	Q	0.01
2,000 CDD or More and --										
Fewer than 4,000 HDD .....	7	Q	Q	(*)	4	(*)	(*)	Q	(*)	(*)
<b>Number of Establishments</b>										
One .....	1,318	1,160	99	Q	50	0.14	0.13	0.01	Q	0.01
2 to 5 .....	221	184	21	(*)	16	0.08	0.07	0.01	(*)	0.01
6 to 10 .....	48	40	Q	Q	2	0.07	0.06	Q	Q	(*)
11 to 20 .....	Q	Q	Q	Q	Q	0.02	Q	Q	(*)	Q
More than 20 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	1,642	1,428	131	Q	72	0.10	0.09	0.01	Q	(*)
Natural Gas .....	727	602	73	Q	48	0.06	0.05	0.01	Q	(*)
Fuel Oil .....	1,644	1,429	131	Q	72	0.10	0.09	0.01	Q	(*)
District Heat .....	10	Q	Q	Q	6	0.01	Q	Q	Q	(*)
<b>Energy End Uses (more than one may apply)</b>										
Buildings with Space Heating ....	1,619	1,429	111	Q	69	0.10	0.09	0.01	Q	(*)
Buildings with Cooling .....	1,303	1,120	107	Q	65	0.09	0.07	0.01	Q	(*)
Buildings with Water Heating .....	1,575	1,365	131	Q	67	0.10	0.09	0.01	Q	(*)
<b>Annual Consumption (gallons)</b>										
1,000 or Less .....	98	75	Q	Q	20	0.01	0.01	Q	Q	(*)
1,001 to 5,000 .....	323	281	Q	Q	22	0.10	0.09	Q	Q	0.01
5,001 to 10,000 .....	210	178	Q	(*)	Q	0.22	0.19	Q	(*)	0.01
10,001 to 25,000 .....	221	211	3	1	7	0.22	0.21	(*)	(*)	0.01
Over 25,000 .....	792	685	83	Q	15	0.36	0.31	0.04	Q	0.01

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/cbeecs>.

(\*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled.

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

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

**Table E11A. District Heat Consumption (Btu) and Energy Intensities by End Use for All Buildings, 2003**

	Total District Heat Consumption (trillion Btu)					District Heat Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings</b> .....	636	580	46	1	Q	114.0	103.9	8.3	0.2	Q
<b>Building Floorspace (Square Feet)</b>										
1,001 to 5,000 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
5,001 to 10,000 .....	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
25,001 to 50,000 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
50,001 to 100,000 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
100,001 to 200,000 .....	165	154	10	Q	Q	118.1	109.9	Q	Q	Q
200,001 to 500,000 .....	123	112	11	Q	Q	121.2	110.2	10.5	Q	Q
Over 500,000 .....	171	147	16	Q	Q	93.6	80.6	8.9	Q	Q
<b>Principal Building Activity</b>										
Education .....	134	122	8	Q	Q	116.6	106.6	6.9	Q	Q
Food Service .....	N	N	N	N	N	N	N	N	N	N
Health Care .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Inpatient .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Outpatient .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Lodging .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mercantile .....	Q	Q	Q	(*)	Q	Q	Q	Q	Q	Q
Retail (Other Than Mall) .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Enclosed and Strip Malls .....	Q	Q	Q	(*)	Q	Q	Q	Q	Q	Q
Office .....	128	122	3	Q	Q	81.5	77.6	2.2	Q	Q
Public Assembly .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Public Order and Safety .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Service .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Warehouse and Storage .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Year Constructed</b>										
Before 1920 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1920 to 1945 .....	129	117	7	Q	Q	107.0	96.8	6.1	Q	Q
1946 to 1959 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1960 to 1969 .....	117	105	Q	Q	Q	137.6	122.5	Q	Q	Q
1970 to 1979 .....	77	66	10	Q	Q	131.7	112.2	16.6	Q	Q
1980 to 1989 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1990 to 1999 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
2000 to 2003 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Census Region and Division</b>										
Northeast .....	166	Q	15	Q	Q	111.2	Q	9.8	Q	Q
New England .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Middle Atlantic .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Midwest .....	225	210	9	Q	Q	136.5	127.5	5.7	Q	Q
East North Central .....	192	182	5	Q	Q	135.3	128.2	3.7	Q	Q
West North Central .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
South .....	182	166	14	Q	Q	102.8	94.0	7.9	Q	Q
South Atlantic .....	117	105	10	Q	Q	94.1	84.8	8.2	Q	Q
East South Central .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
West South Central .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
West .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mountain .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Pacific .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q



**Table E11A. District Heat Consumption (Btu) and Energy Intensities by End Use for All Buildings, 2003**

	Total District Heat Consumption (trillion Btu)					District Heat Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
<b>All Buildings</b> .....	636	580	46	1	Q	114.0	103.9	8.3	0.2	Q
<b>Climate Zone: 30-Year Average</b>										
Under 2,000 CDD and --										
- More than 7,000 HDD .....	88	80	8	Q	(*)	106.3	96.7	9.4	Q	(*)
- 5,500-7,000 HDD .....	257	242	9	Q	Q	133.9	126.2	4.6	Q	Q
- 4,000-5,499 HDD .....	140	120	Q	Q	Q	103.5	88.9	12.0	Q	Q
- Fewer than 4,000 HDD .....	101	90	10	Q	(*)	98.1	88.2	9.8	Q	(*)
2,000 CDD or More and --										
- Fewer than 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Number of Establishments</b>										
One .....	384	348	30	Q	Q	125.3	113.6	9.9	Q	Q
2 to 5 .....	156	142	Q	Q	Q	119.6	109.1	Q	Q	Q
6 to 10 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
11 to 20 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	636	580	46	1	Q	114.0	103.9	8.3	Q	Q
Natural Gas .....	306	271	27	Q	Q	118.9	105.3	10.5	Q	Q
Fuel Oil .....	179	154	20	Q	Q	96.0	82.7	11.0	Q	Q
District Heat .....	636	580	46	1	Q	114.0	103.9	8.3	0.2	Q
<b>Energy End Uses (more than one may apply)</b>										
Buildings with Space Heating ....	635	580	46	1	Q	115.3	105.2	8.3	0.2	Q
Buildings with Cooling .....	536	485	42	1	Q	112.1	101.3	8.7	0.3	Q
Buildings with Water Heating .....	525	469	46	1	Q	110.2	98.4	9.7	0.3	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>.

(\*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

N=No responding cases in sample that used district heat.

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

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