

**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>.

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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.