

Table C30A. Natural Gas Consumption and Conditional Energy Intensity by Climate Zone^a for All Buildings, 2003

	Total Natural Gas Consumption (billion cubic feet)					Total Floorspace of Buildings Using Natural Gas (million square feet)					Natural Gas Energy Intensity (cubic feet/square foot)				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings	454	715	356	378	134	8,486	14,122	8,970	11,796	5,098	53.5	50.6	39.7	32.0	26.3
Building Floorspace (Square Feet)															
1,001 to 5,000	57	84	35	58	16	666	1,015	427	832	234	84.8	83.1	81.9	69.6	66.6
5,001 to 10,000	50	57	33	61	17	666	1,030	639	1,243	392	75.2	54.9	51.2	49.2	44.0
10,001 to 25,000	98	121	53	55	15	1,831	2,415	1,024	1,994	561	53.7	50.1	52.1	27.5	27.4
25,001 to 50,000	61	95	56	39	19	1,340	1,963	1,138	1,662	501	45.7	48.3	49.5	23.3	37.8
50,001 to 100,000	64	97	47	45	16	1,217	2,300	1,453	1,744	786	52.3	42.2	32.7	25.9	19.8
100,001 to 200,000	38	123	34	Q	12	1,075	2,316	1,431	1,833	889	35.6	53.0	23.5	32.8	13.5
200,001 to 500,000	55	62	40	31	16	1,036	1,517	1,439	1,186	714	52.8	41.1	27.6	26.5	22.6
Over 500,000	Q	76	58	28	Q	1,566	1,419	1,301	Q	Q	48.4	41.2	21.7	Q	Q
Principal Building Activity															
Education	65	113	26	48	9	1,227	2,281	968	1,700	869	53.0	49.4	26.4	28.2	10.1
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	27	49	Q	64	31	174	368	Q	393	277	154.3	134.4	Q	161.9	110.9
Health Care	38	69	36	64	29	383	665	454	720	323	98.4	103.5	78.3	89.5	89.4
Inpatient	27	56	30	59	26	237	414	302	589	264	114.1	136.3	99.9	99.4	98.8
Outpatient	Q	12	Q	Q	Q	Q	251	Q	Q	Q	Q	Q	Q	Q	Q
Lodging	34	86	36	34	18	609	1,183	958	967	538	55.5	72.8	Q	35.3	32.8
Mercantile	63	83	46	46	17	1,433	1,867	1,308	2,219	1,044	43.8	44.6	35.3	20.9	16.6
Retail (Other Than Mall)	27	27	16	16	Q	593	595	451	931	Q	46.1	45.8	36.1	17.0	Q
Enclosed and Strip Malls	35	56	30	30	Q	840	1,272	857	1,287	Q	42.2	44.1	34.9	23.7	Q
Office	60	106	60	22	14	1,252	2,575	1,977	1,539	865	48.0	41.0	30.1	14.4	16.1
Public Assembly	32	30	Q	25	Q	639	537	Q	700	Q	49.7	55.0	Q	35.4	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	14	38	14	13	Q	277	973	412	774	Q	49.2	38.9	32.8	16.5	Q
Service	49	37	18	23	Q	697	717	422	511	Q	70.9	52.1	Q	44.8	Q
Warehouse and Storage	33	44	33	16	Q	963	1,672	1,071	1,463	Q	34.5	26.4	30.7	11.2	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed															
Before 1920	55	46	25	Q	Q	832	1,048	599	Q	Q	66.4	43.6	41.9	Q	Q
1920 to 1945	49	72	77	18	Q	764	1,345	1,588	842	Q	64.8	53.3	48.5	21.2	Q
1946 to 1959	38	100	30	44	Q	660	1,894	1,058	993	Q	56.9	52.7	28.2	43.9	Q
1960 to 1969	62	106	39	42	19	1,047	2,021	1,128	1,351	593	59.2	52.4	34.3	31.1	32.2
1970 to 1979	112	139	50	64	25	1,993	2,530	1,400	1,859	1,013	56.0	55.0	36.0	34.3	24.7
1980 to 1989	46	125	54	80	23	762	2,210	1,265	2,542	1,049	60.0	56.7	43.1	31.4	22.1
1990 to 1999	69	87	51	93	34	1,735	1,988	1,202	3,012	1,267	40.0	43.8	42.4	30.9	26.9
2000 to 2003	23	40	Q	28	15	693	1,086	729	990	601	33.3	37.0	41.0	28.1	25.3
Census Region and Division															
Northeast	Q	207	175	N	N	Q	4,188	4,676	N	N	51.1	49.4	37.4	N	N
New England	Q	84	N	N	N	Q	1,848	N	N	N	Q	45.7	N	N	N
Middle Atlantic	Q	123	175	N	N	Q	2,339	4,676	N	N	51.6	52.4	37.4	N	N
Midwest	249	435	44	N	N	4,665	8,633	846	N	N	53.4	50.4	51.7	N	N
East North Central	160	390	N	N	N	2,807	7,549	N	N	N	56.9	51.7	N	N	N
West North Central	89	45	44	N	N	1,859	Q	846	N	N	48.1	Q	51.7	N	N
South	N	N	123	269	119	N	N	2,992	7,577	4,690	N	N	41.1	35.6	25.3
South Atlantic	N	N	71	143	Q	N	N	2,047	4,089	Q	N	N	34.5	35.0	21.4
East South Central	N	N	Q	Q	Q	N	N	Q	Q	Q	N	N	Q	33.5	42.7
West South Central	N	N	Q	77	80	N	N	Q	2,020	3,205	N	N	Q	38.1	24.9
West	138	73	15	108	15	2,521	1,302	456	4,219	408	54.9	55.8	33.0	25.6	37.8
Mountain	116	60	N	N	9	2,019	919	N	N	325	57.4	64.9	N	N	27.9
Pacific	Q	13	15	108	Q	Q	383	456	4,219	Q	44.6	33.7	33.0	25.6	76.8

CONTINUED

Table C30A. Natural Gas Consumption and Conditional Energy Intensity by Climate Zone^a for All Buildings, 2003

	Total Natural Gas Consumption (billion cubic feet)					Total Floorspace of Buildings Using Natural Gas (million square feet)					Natural Gas Energy Intensity (cubic feet/square foot)				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings	454	715	356	378	134	8,486	14,122	8,970	11,796	5,098	53.5	50.6	39.7	32.0	26.3
Number of Establishments															
One	300	501	247	289	80	5,184	9,094	5,555	7,980	2,706	58.0	55.1	44.4	36.2	29.7
2 to 5	109	123	42	50	25	2,065	2,506	1,525	1,938	683	52.7	48.9	27.3	25.9	36.8
6 to 10	22	39	13	Q	Q	537	708	388	Q	Q	40.3	55.3	33.6	Q	Q
11 to 20	Q	23	Q	Q	Q	Q	551	Q	524	Q	Q	41.6	Q	29.7	Q
More than 20	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)															
Electricity	454	715	356	378	134	8,484	14,122	8,970	11,796	5,093	53.5	50.6	39.7	32.0	26.3
Natural Gas	454	715	356	378	134	8,486	14,122	8,970	11,796	5,098	53.5	50.6	39.7	32.0	26.3
Fuel Oil	85	161	131	95	36	1,381	2,636	3,788	2,045	1,447	61.5	61.0	34.5	46.3	24.8
District Heat	Q	Q	Q	Q	Q	347	922	593	Q	Q	Q	20.0	Q	Q	Q
Energy End Uses (more than one may apply)															
Buildings with Space Heating	453	713	354	363	131	8,481	14,066	8,965	11,479	4,812	53.4	50.7	39.5	31.6	27.3
Buildings with Cooling	427	666	340	361	133	7,899	12,870	8,760	11,258	5,069	54.0	51.7	38.8	32.1	26.2
Buildings with Water Heating	445	686	350	363	130	8,088	13,297	8,725	10,993	4,782	55.1	51.6	40.1	33.0	27.2
Annual Consumption (hundred cubic feet)															
1,000 or Less	7	9	4	13	3	512	715	868	1,578	726	13.5	13.0	Q	8.3	3.6
1,001 to 5,000	52	90	38	63	14	1,645	2,866	1,538	3,327	1,008	31.4	31.6	25.0	18.9	13.6
5,001 to 10,000	68	91	42	45	20	1,246	1,897	1,035	1,691	1,079	54.2	48.0	40.2	26.9	18.2
10,001 to 25,000	105	124	60	71	30	1,699	2,594	1,750	1,815	746	61.9	47.7	34.3	39.4	40.1
25,001 to 50,000	79	102	54	69	20	1,323	2,194	1,475	1,174	635	60.0	46.4	36.7	58.5	31.4
50,001 to 100,000	46	84	60	Q	Q	787	1,499	899	Q	Q	58.6	56.1	66.8	Q	Q
Over 100,000	97	214	98	83	37	1,275	2,358	1,404	1,022	564	76.2	90.8	69.8	81.2	65.8

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

a Climate zone (30-year average) definitions: Zone 1 = Under 2,000 CDD and more than 7,000 HDD; Zone 2 = Under 2,000 CDD and 5,500-7,000 HDD; Zone 3 = Under 2,000 CDD and 4,000-5,499 HDD; Zone 4 = Under 2,000 CDD and fewer than 4,000 HDD; Zone 5 = 2,000 CDD or more and fewer than 4,000 HDD. (See "Glossary" for definitions of CDD and HDD.)

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

N=No responding cases in sample that use natural gas.

Notes: • Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. • Due to rounding, data may not sum to totals.

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