

Table C15. Total Natural Gas Consumption and Expenditures, 1999

	All Buildings Using Natural Gas			Natural Gas Consumption		Natural Gas Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (billion cubic feet)	Total (million dollars)
All Buildings	2,670	45,525	17.1	2,023	1,966	10,609
Building Floorspace (Square Feet)						
1,001 to 5,000	1,193	3,566	3.0	312	304	1,802
5,001 to 10,000	684	5,088	7.4	292	284	1,810
10,001 to 25,000	448	7,001	15.6	319	310	1,813
25,001 to 50,000	176	6,405	36.4	234	227	1,274
50,001 to 100,000	103	7,165	69.4	250	243	1,253
100,001 to 200,000	42	5,915	139.2	230	223	1,104
200,001 to 500,000	18	5,282	299.7	237	230	958
Over 500,000	5	5,104	952.9	149	144	594
Principal Building Activity						
Education	225	6,570	29.3	227	220	1,111
Food Sales	88	659	7.5	31	31	195
Food Service	246	1,510	6.1	216	210	1,185
Health Care	73	2,285	31.4	217	211	881
Inpatient	9	1,677	176.6	195	190	757
Outpatient	63	609	9.6	22	21	124
Lodging	104	3,548	34.0	181	176	943
Mercantile	439	7,887	18.0	186	180	1,126
Retail (Other Than Mall)	350	3,518	10.1	110	107	670
Enclosed and Strip Malls	89	4,369	48.9	76	74	456
Office	452	7,356	16.3	219	213	1,215
Public Assembly	187	2,989	16.0	96	94	560
Public Order and Safety	31	627	20.2	33	32	176
Religious Worship	214	2,457	11.5	62	60	409
Service	277	2,093	7.6	260	253	1,371
Warehouse and Storage	226	6,211	27.5	230	223	1,124
Other	40	707	17.7	45	44	224
Vacant	68	626	9.2	19	19	89
Year Constructed						
1919 or Before	291	2,766	9.5	120	117	684
1920 to 1945	329	4,257	12.9	195	189	968
1946 to 1959	426	6,040	14.2	256	248	1,390
1960 to 1969	406	7,512	18.5	372	361	1,986
1970 to 1979	481	8,080	16.8	326	317	1,726
1980 to 1989	389	8,794	22.6	391	380	2,033
1990 to 1999	349	8,076	23.2	364	354	1,820
Census Region and Division						
Northeast	311	7,305	23.5	299	291	1,895
New England	45	1,590	35.3	59	57	403
Middle Atlantic	266	5,714	21.5	240	234	1,491
Midwest	874	13,506	15.5	709	689	3,277
East North Central	611	9,383	15.4	497	483	2,252
West North Central	263	4,123	15.7	212	206	1,024
South	820	14,199	17.3	618	601	3,294
South Atlantic	231	5,517	23.9	249	242	1,397
East South Central	224	3,508	15.7	186	180	999
West South Central	365	5,174	14.2	183	178	898
West	665	10,515	15.8	396	385	2,144
Mountain	230	3,183	13.8	145	140	739
Pacific	435	7,332	16.9	252	245	1,405

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Climate Zone: 45-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	329	4,064	12.4	228	222	1,125
5,500-7,000 HDD	652	12,573	19.3	642	624	3,108
4,000-5,499 HDD	551	10,455	19.0	520	505	2,874
Fewer than 4,000 HDD	727	12,149	16.7	425	413	2,341
2,000 CDD or More and --						
Fewer than 4,000 HDD	410	6,285	15.3	208	202	1,160
Workers (main shift)						
Fewer than 5	1,151	7,108	6.2	280	272	1,747
5 to 9	560	4,633	8.3	194	189	1,111
10 to 19	424	5,589	13.2	281	273	1,509
20 to 49	321	7,737	24.1	435	423	2,386
50 to 99	118	6,278	53.3	222	215	1,177
100 to 249	67	6,146	91.1	252	244	1,210
250 or More	28	8,035	287.1	359	349	1,468
Weekly Operating Hours						
39 or Fewer	376	2,825	7.5	82	80	502
40 to 48	673	8,197	12.2	269	262	1,480
49 to 60	651	9,714	14.9	387	377	2,123
61 to 84	447	9,007	20.2	358	348	2,045
85 to 167	285	6,449	22.6	348	339	1,810
Open Continuously	238	9,334	39.2	577	561	2,650
Ownership and Occupancy						
Nongovernment Owned	2,366	37,026	15.6	1,659	1,613	8,913
Owner Occupied	1,605	25,597	16.0	1,202	1,168	6,383
Nonowner Occupied	719	10,968	15.3	447	435	2,474
Unoccupied	Q	Q	Q	Q	Q	Q
Government Owned	304	8,500	28.0	364	353	1,696
Federal	24	997	41.3	37	36	159
State	52	2,253	43.5	114	111	470
Local	228	5,250	23.0	212	206	1,067
Vacancy Status						
Completely Vacant	Q	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q
Partially Vacant	370	10,725	29.0	306	297	1,600
Not At All Vacant	2,232	34,174	15.3	1,698	1,650	8,920
Number of Establishments						
One	2,038	29,717	14.6	1,542	1,498	7,939
2 to 5	459	7,439	16.2	273	266	1,524
6 to 10	79	2,463	31.0	86	84	511
11 to 20	23	1,786	76.7	50	48	275
More than 20	19	3,596	186.8	60	58	297
Currently Unoccupied	50	525	10.5	12	11	64
Energy Sources (more than one may apply)						
Electricity	2,663	45,496	17.1	2,023	1,966	10,607
Natural Gas	2,670	45,525	17.1	2,023	1,966	10,609
Fuel Oil	91	8,088	89.1	428	416	1,786
District Heat	Q	2,683	51.2	108	105	488
District Chilled Water	21	1,316	62.9	53	51	226
Propane	35	1,887	53.5	Q	Q	433
Other	59	1,572	26.6	75	72	381

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Space-Heating Energy Source						
Natural Gas	2,380	37,902	15.9	1,764	1,714	9,122
Natural Gas Main	2,189	32,729	15.0	1,602	1,557	8,225
Natural Gas Secondary	191	5,173	27.1	162	157	897
Other Excluding Natural Gas	208	6,492	31.2	190	184	1,067
Buildings without Heating	82	1,141	13.9	Q	Q	Q
Primary Space-Heating Energy Source						
Electricity	331	8,437	25.5	282	274	1,608
Natural Gas	2,189	32,729	15.0	1,602	1,557	8,225
Fuel Oil	Q	888	Q	17	16	108
District Heat	33	2,107	64.8	48	46	220
Propane	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q
Cooling Energy Source						
Natural Gas	142	1,914	13.5	102	99	518
Other Excluding Natural Gas	2,193	40,233	18.3	1,732	1,684	9,129
Buildings without Cooling	335	3,378	10.1	189	184	962
Water-Heating Energy Source						
Natural Gas	1,520	29,196	19.2	1,451	1,410	7,556
Other Excluding Natural Gas	671	12,170	18.1	413	402	2,149
Buildings without Water Heating	479	4,160	8.7	159	154	904
Cooking Energy Source						
Natural Gas	505	16,785	33.2	823	800	4,019
Other Excluding Natural Gas	110	3,072	28.0	118	114	653
Buildings without Cooking	2,055	25,668	12.5	1,082	1,052	5,937
Energy End Uses (more than one may apply)						
Buildings with Space Heating	2,588	44,385	17.2	1,954	1,899	10,189
Buildings with Cooling	2,335	42,147	18.1	1,834	1,782	9,647
Buildings with Water Heating	2,191	41,366	18.9	1,864	1,811	9,705
Buildings with Cooking	615	19,857	32.3	941	914	4,672
Buildings with Manufacturing	77	2,322	30.2	114	110	634
Buildings with Electricity Generation	118	9,119	77.5	470	457	2,080
Percent of Floorspace Heated						
Not Heated	82	1,141	13.9	Q	Q	Q
1 to 50	322	4,873	15.1	130	126	679
51 to 99	441	8,052	18.3	344	335	1,896
100	1,825	31,460	17.2	1,480	1,438	7,614
Percent of Floorspace Cooled						
Not Cooled	335	3,378	10.1	189	184	962
1 to 50	679	12,068	17.8	561	545	2,897
51 to 99	544	12,694	23.3	589	573	3,056
100	1,112	17,386	15.6	684	665	3,694
Heating Equipment (more than one may apply)						
Heat Pumps	194	5,627	29.1	292	284	1,481
Furnaces	1,104	11,960	10.8	566	550	3,054
Individual Space Heaters	581	13,561	23.3	530	515	2,712
District Heat	41	2,431	59.7	80	77	385
Boilers	416	16,588	39.8	841	817	3,974
Packaged Heating Units	939	20,043	21.3	826	803	4,291
Other	71	2,680	37.5	134	130	559

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Cooling Equipment (more than one may apply)						
Residential-Type Central						
Air Conditioners	503	6,805	13.5	295	287	1,538
Heat Pumps	195	5,771	29.6	291	283	1,477
Individual Air Conditioners	507	10,715	21.1	486	472	2,519
District Chilled Water	21	1,316	62.9	53	51	226
Central Chillers	103	10,145	98.8	522	508	2,301
Packaged Air Conditioning						
Units	1,356	27,987	20.6	1,193	1,159	6,277
Swamp Coolers	121	1,950	16.1	102	99	518
Other	20	773	Q	40	39	172
Main Equipment Replaced Since 1995 (more than one may apply)						
Heating	656	10,327	15.8	431	419	2,431
Cooling	689	12,862	18.7	557	542	2,949
Water Heating Equipment						
Centralized System	1,706	26,479	15.5	1,258	1,222	6,762
Distributed System	342	7,585	22.2	278	270	1,409
Combination of Centralized and Distributed System	143	7,302	51.2	328	319	1,533
Annual Consumption (hundred cubic feet)						
1,000 or Less	742	4,596	6.2	39	38	310
1,001 to 5,000	1,194	11,194	9.4	309	301	2,048
5,001 to 10,000	344	6,839	19.9	246	239	1,419
10,001 to 25,000	271	9,173	33.9	427	415	2,387
25,001 to 50,000	65	4,914	76.1	222	216	1,101
50,001 to 100,000	36	3,477	95.5	253	245	1,280
Over 100,000	17	5,333	314.3	526	511	2,064
Provider of Natural Gas (more than one may apply)						
Local Utility	2,508	40,765	16.3	1,730	1,681	9,251
Some Other Provider	125	4,266	34.2	287	279	1,288

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

Notes: * Statistics for the "energy end uses" represent consumption in buildings that have the end use, not consumption for a particular fuel for a particular end use. * 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 1999 Commercial Buildings Energy Consumption Survey.