

Table B20. Space-Heating Energy Sources, Number of Buildings, 1999

	Number of Buildings (thousand)							
	All Buildings	All Buildings with Space Heating	Space-Heating Energy Sources Used (more than one may apply)					
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane	Other ^a
All Buildings	4,657	4,016	1,880	2,380	377	96	307	94
Building Floorspace								
(Square Feet)								
1,001 to 5,000	2,348	1,982	926	1,082	214	Q	162	Q
5,001 to 10,000	1,110	946	379	624	73	Q	88	Q
10,001 to 25,000	708	629	324	389	52	19	42	Q
25,001 to 50,000	257	237	129	143	20	17	7	Q
50,001 to 100,000	145	137	74	89	9	13	5	Q
100,001 to 200,000	59	57	34	35	6	7	Q	Q
200,001 to 500,000	23	22	11	13	3	3	Q	Q
Over 500,000	7	7	4	4	1	2	Q	Q
Principal Building Activity								
Education	327	326	166	196	17	30	10	Q
Food Sales	174	149	63	79	Q	Q	Q	Q
Food Service	349	321	143	192	Q	Q	Q	Q
Health Care	127	127	78	63	Q	3	Q	N
Inpatient	11	11	3	5	Q	3	Q	N
Outpatient	116	116	75	58	Q	Q	Q	N
Lodging	153	150	101	74	Q	13	Q	Q
Mercantile	667	626	273	392	86	Q	31	Q
Retail (Other Than Mall)	534	502	204	318	76	Q	Q	Q
Enclosed and Strip Malls	133	123	68	75	Q	N	Q	N
Office	739	728	430	419	65	19	Q	Q
Public Assembly	305	274	121	153	Q	15	Q	Q
Public Order and Safety	72	61	21	30	Q	3	Q	Q
Religious Worship	307	306	125	206	22	Q	62	Q
Service	478	421	135	260	71	Q	Q	Q
Warehouse and Storage	603	357	171	211	15	Q	39	Q
Other	102	84	Q	39	Q	Q	Q	Q
Vacant	253	84	18	67	Q	Q	Q	Q
Year Constructed								
1919 or Before	419	350	105	254	52	19	Q	Q
1920 to 1945	499	430	145	317	53	9	Q	Q
1946 to 1959	763	666	307	376	98	21	39	Q
1960 to 1969	665	557	224	361	56	16	48	Q
1970 to 1979	774	691	376	423	28	Q	39	Q
1980 to 1989	846	713	411	337	54	11	66	Q
1990 to 1999	690	608	312	311	36	4	78	Q
Census Region								
Northeast	686	601	186	273	210	31	63	Q
Midwest	1,188	1,049	331	834	33	22	93	26
South	1,762	1,503	945	677	114	27	120	45
West	1,021	863	418	595	Q	17	31	Q
Climate Zone: 45-Year Average								
Under 2,000 CDD and --								
More than 7,000 HDD	525	475	133	324	69	3	74	Q
5,500-7,000 HDD	986	870	312	619	111	22	66	Q
4,000-5,499 HDD	1,085	950	435	468	170	42	79	33
Fewer than 4,000 HDD	1,134	997	509	647	Q	8	Q	Q
2,000 CDD or More and --								
Fewer than 4,000 HDD	926	724	492	322	Q	21	Q	Q

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Workers (main shift)								
Fewer than 5	2,376	1,835	773	1,047	174	30	183	55
5 to 9	807	773	363	502	91	14	37	Q
10 to 19	683	667	343	390	51	10	54	Q
20 to 49	487	456	233	262	39	12	28	Q
50 to 99	174	166	103	103	10	15	Q	Q
100 to 249	90	81	43	54	8	8	Q	Q
250 or More	39	38	22	22	2	7	Q	Q
Weekly Operating Hours								
39 or Fewer	978	638	259	355	64	Q	113	Q
40 to 48	1,156	1,068	516	616	90	35	72	Q
49 to 60	986	943	457	599	103	17	28	27
61 to 84	664	598	250	383	56	16	40	Q
85 to 167	474	407	208	232	25	7	35	Q
Open Continuously	398	362	189	195	38	20	18	Q
Energy Sources (more than one may apply)								
Electricity	4,395	4,008	1,880	2,373	376	96	307	94
Natural Gas	2,670	2,588	954	2,380	60	41	Q	19
Fuel Oil	434	432	163	62	377	7	Q	Q
District Heat	117	116	46	20	Q	96	Q	Q
District Chilled Water	50	49	23	4	Q	39	Q	Q
Propane	451	434	145	28	76	Q	307	Q
Other	153	149	57	52	Q	Q	Q	94
Primary Space-Heating Energy Source								
Electricity	1,128	1,128	1,128	174	37	Q	7	Q
Natural Gas	2,189	2,189	607	2,189	33	2	Q	Q
Fuel Oil	302	302	76	2	302	Q	Q	Q
District Heat	77	77	9	Q	Q	77	Q	Q
Propane	282	282	58	Q	Q	N	282	Q
Other	38	38	Q	Q	Q	N	Q	38
Cooling Energy Sources (more than one may apply)								
Electricity	3,450	3,297	1,674	1,992	246	54	211	60
Natural Gas	142	137	68	135	Q	Q	Q	N
District Chilled Water	50	49	23	4	Q	39	Q	Q
Water-Heating Energy Sources (more than one may apply)								
Electricity	1,546	1,465	927	667	90	23	106	43
Natural Gas	1,520	1,459	531	1,311	44	21	Q	Q
Fuel Oil	110	109	34	6	107	Q	Q	Q
District Heat	62	61	21	3	Q	46	Q	Q
Propane	130	116	29	Q	Q	N	81	Q
Cooking Energy Sources (more than one may apply)								
Electricity	437	398	216	205	36	11	43	Q
Natural Gas	505	475	208	390	24	Q	Q	Q
Propane	118	111	40	Q	24	Q	52	Q

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Energy End Uses (more than one may apply)								
Buildings with Space Heating	4,016	4,016	1,880	2,380	377	96	307	94
Buildings with Cooling	3,560	3,400	1,701	2,070	246	77	212	61
Buildings with Water Heating	3,239	3,087	1,465	1,914	246	80	195	50
Buildings with Cooking	857	798	362	480	74	21	75	25
Buildings with Manufacturing	151	143	76	67	Q	Q	Q	Q
Buildings with Electricity Generation	172	169	89	97	23	9	4	Q
Percent of Floorspace Heated								
Not Heated	641	Q	N	Q	N	N	N	N
1 to 50	576	576	290	301	58	Q	61	Q
51 to 99	627	627	255	394	52	16	30	Q
100	2,813	2,813	1,335	1,685	266	80	216	42
Heating Equipment (more than one may apply)								
Heat Pumps	492	492	475	144	Q	4	12	Q
Furnaces	1,460	1,460	512	1,077	166	Q	128	Q
Individual Space Heaters	894	894	584	543	100	7	104	27
District Heat	96	96	26	Q	Q	96	Q	Q
Boilers	581	581	193	381	152	Q	41	12
Packaged Heating Units	1,347	1,347	744	865	17	Q	81	Q
Other	185	185	110	67	34	1	19	52

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

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

N=No responding cases in sample.

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.