

Table B23. Primary Space-Heating Energy Sources, Floorspace, 1999

	Total Floorspace (million square feet)					
	All Buildings	All Buildings with Space Heating	Primary Space-Heating Energy Source Used ^a			
			Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings	67,338	61,602	17,627	32,729	3,719	5,077
Building Floorspace (Square Feet)						
1,001 to 5,000	6,774	5,684	1,567	3,080	482	Q
5,001 to 10,000	8,238	7,090	1,496	4,292	557	Q
10,001 to 25,000	11,153	9,865	3,035	5,320	597	232
25,001 to 50,000	9,311	8,565	2,866	4,416	486	577
50,001 to 100,000	10,112	9,597	2,765	5,261	484	836
100,001 to 200,000	8,271	7,893	2,497	4,128	383	853
200,001 to 500,000	6,851	6,445	1,509	3,531	474	894
Over 500,000	6,628	6,465	1,892	2,701	Q	1,554
Principal Building Activity						
Education	8,651	8,612	1,502	4,873	1,024	1,017
Food Sales	994	880	244	490	Q	Q
Food Service	1,851	1,721	492	1,008	Q	Q
Health Care	2,918	2,918	461	1,679	Q	626
Inpatient	1,865	1,865	Q	1,174	Q	538
Outpatient	1,053	1,053	431	505	Q	Q
Lodging	4,521	4,424	2,112	1,727	Q	517
Mercantile	10,398	9,848	4,273	4,968	319	Q
Retail (Other Than Mall)	4,766	4,615	1,332	2,790	290	Q
Enclosed and Strip Malls	5,631	5,233	2,942	2,178	Q	N
Office	12,044	11,810	4,334	5,279	720	1,367
Public Assembly	4,393	4,015	639	2,065	Q	805
Public Order and Safety	1,168	1,021	Q	470	Q	279
Religious Worship	3,405	3,383	321	2,222	Q	Q
Service	3,388	3,027	710	1,657	Q	Q
Warehouse and Storage	10,477	8,104	2,208	5,160	301	Q
Other	1,222	1,086	174	583	Q	Q
Vacant	1,908	754	Q	549	Q	Q
Year Constructed						
1919 or Before	4,034	3,593	231	2,292	544	471
1920 to 1945	6,445	5,559	826	3,258	462	726
1946 to 1959	9,127	8,402	1,712	4,656	747	954
1960 to 1969	10,866	9,966	2,039	5,496	717	1,300
1970 to 1979	11,840	10,916	3,678	5,421	661	704
1980 to 1989	13,931	12,566	5,433	5,930	329	493
1990 to 1999	11,094	10,600	3,708	5,677	Q	428
Census Region						
Northeast	12,360	11,667	1,645	4,913	2,803	1,709
Midwest	16,761	15,916	2,355	11,348	Q	1,411
South	23,485	20,598	9,259	8,815	718	904
West	14,731	13,421	4,368	7,653	Q	1,053
Climate Zone: 45-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	5,890	5,669	427	3,692	816	222
5,500-7,000 HDD	17,083	16,206	2,654	10,175	1,208	1,625
4,000-5,499 HDD	16,243	15,292	3,638	7,148	1,519	2,225
Fewer than 4,000 HDD	16,333	14,923	5,619	8,306	Q	576
2,000 CDD or More and --						
Fewer than 4,000 HDD	11,788	9,512	5,288	3,409	Q	429

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			Electricity	Natural Gas	Fuel Oil	District Heat
Workers (main shift)						
Fewer than 5	14,321	10,552	2,259	6,115	788	264
5 to 9	6,325	6,020	1,412	3,539	484	284
10 to 19	8,028	7,762	2,527	4,136	336	365
20 to 49	10,814	10,347	3,290	5,671	564	509
50 to 99	8,898	8,536	2,840	4,214	714	546
100 to 249	8,356	8,053	2,201	4,336	479	966
250 or More	10,595	10,333	3,099	4,719	355	2,143
Weekly Operating Hours						
39 or Fewer	6,596	4,217	564	2,349	444	Q
40 to 48	13,105	12,090	3,391	6,705	753	632
49 to 60	14,200	13,677	3,642	7,681	1,084	817
61 to 84	12,458	11,787	4,240	5,905	631	785
85 to 167	9,116	8,399	2,526	4,322	485	818
Open Continuously	11,863	11,432	3,263	5,768	323	1,991
Energy Sources (more than one may apply)						
Electricity	65,716	61,565	17,627	32,701	3,711	5,077
Natural Gas	45,525	44,385	8,437	32,729	888	2,107
Fuel Oil	13,285	13,074	2,710	4,852	3,719	1,578
District Heat	5,891	5,862	474	284	Q	5,077
District Chilled Water	2,750	2,739	310	334	Q	2,084
Propane	6,290	6,076	1,468	1,360	1,044	Q
Other	2,322	2,276	507	1,104	Q	Q
Energy End Uses (more than one may apply)						
Buildings with Space Heating	61,602	61,602	17,627	32,729	3,719	5,077
Buildings with Cooling	58,474	56,361	17,160	30,003	2,912	4,392
Buildings with Water Heating	56,115	54,204	15,562	29,379	3,085	4,519
Buildings with Cooking	24,681	23,813	7,203	12,286	1,549	2,035
Buildings with Manufacturing	3,126	3,031	894	1,708	Q	Q
Buildings with Electricity Generation	11,882	11,643	3,298	5,682	726	1,782
Percent of Floorspace Heated						
Not Heated	5,736	N	N	N	N	N
1 to 50	7,593	7,593	3,013	3,648	481	Q
51 to 99	10,745	10,745	3,275	5,829	409	837
100	43,264	43,264	11,339	23,252	2,829	4,176
Heating Equipment (more than one may apply)						
Heat Pumps	8,923	8,923	5,009	3,076	Q	588
Furnaces	14,449	14,449	2,281	10,311	821	Q
Individual Space Heaters	17,349	17,349	4,788	9,945	683	1,042
District Heat	5,534	5,534	Q	211	Q	5,077
Boilers	19,522	19,522	2,171	13,918	2,717	Q
Packaged Heating Units	25,743	25,743	10,090	13,958	333	602
Other	4,073	4,073	1,807	1,634	Q	Q

^a Additionally, buildings comprising 2,107 million square feet used propane; buildings comprising 343 million square feet used wood, coal, or some other energy source; and no buildings 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.

Notes: 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.