

Table B21. Space-Heating Energy Sources, Floorspace, 1999

	Total Floorspace (million square feet)							
	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	67,338	61,612	32,291	37,902	5,611	5,534	2,728	945
Building Floorspace (Square Feet)								
1,001 to 5,000	6,774	5,684	2,651	3,250	598	Q	469	Q
5,001 to 10,000	8,238	7,090	2,808	4,613	573	Q	688	Q
10,001 to 25,000	11,153	9,865	5,079	6,069	773	307	682	Q
25,001 to 50,000	9,311	8,574	4,752	5,225	687	617	247	Q
50,001 to 100,000	10,112	9,597	5,238	6,200	635	905	366	Q
100,001 to 200,000	8,271	7,893	4,719	4,917	791	883	Q	Q
200,001 to 500,000	6,851	6,445	3,234	3,949	847	963	Q	Q
Over 500,000	6,628	6,465	3,810	3,680	707	1,698	Q	Q
Principal Building Activity								
Education	8,651	8,612	3,613	5,317	1,375	1,086	200	Q
Food Sales	994	880	359	556	Q	Q	Q	Q
Food Service	1,851	1,721	836	1,210	Q	Q	Q	Q
Health Care	2,918	2,918	1,335	1,793	641	736	Q	N
Inpatient	1,865	1,865	693	1,257	615	641	Q	N
Outpatient	1,053	1,053	642	536	Q	Q	Q	N
Lodging	4,521	4,424	2,984	2,503	Q	527	Q	Q
Mercantile	10,398	9,848	6,148	6,423	649	Q	332	Q
Retail (Other Than Mall)	4,766	4,615	2,239	3,150	470	Q	Q	Q
Enclosed and Strip Malls	5,631	5,233	3,909	3,274	Q	N	Q	N
Office	12,044	11,819	7,221	6,060	812	1,487	Q	Q
Public Assembly	4,393	4,015	1,848	2,370	Q	841	Q	Q
Public Order and Safety	1,168	1,021	354	512	Q	297	Q	Q
Religious Worship	3,405	3,383	1,534	2,270	182	Q	706	Q
Service	3,388	3,027	1,145	1,981	405	Q	Q	Q
Warehouse and Storage	10,477	8,104	4,285	5,719	576	Q	483	Q
Other	1,222	1,086	401	612	Q	Q	Q	Q
Vacant	1,908	754	228	575	Q	Q	Q	Q
Year Constructed								
1919 or Before	4,034	3,593	1,267	2,399	593	480	Q	Q
1920 to 1945	6,445	5,559	2,223	3,808	651	764	Q	Q
1946 to 1959	9,127	8,402	3,822	5,091	1,065	1,065	319	Q
1960 to 1969	10,866	9,966	4,789	6,163	1,083	1,351	473	Q
1970 to 1979	11,840	10,916	6,116	6,558	1,015	769	415	Q
1980 to 1989	13,931	12,566	8,140	7,226	772	606	526	Q
1990 to 1999	11,094	10,610	5,933	6,658	432	499	608	Q
Census Region								
Northeast	12,360	11,667	4,625	5,703	3,612	1,876	761	Q
Midwest	16,761	15,916	6,429	12,467	619	1,514	733	281
South	23,485	20,608	13,862	10,904	1,128	1,022	1,013	260
West	14,731	13,421	7,375	8,828	252	1,121	221	Q
Climate Zone: 45-Year Average								
Under 2,000 CDD and --								
More than 7,000 HDD	5,890	5,669	1,920	3,949	1,065	250	616	Q
5,500-7,000 HDD	17,083	16,206	6,767	11,335	1,833	1,736	613	Q
4,000-5,499 HDD	16,243	15,292	8,030	8,234	2,267	2,405	766	305
Fewer than 4,000 HDD	16,333	14,923	8,670	10,109	281	677	Q	Q
2,000 CDD or More and --								
Fewer than 4,000 HDD	11,788	9,521	6,904	4,275	Q	466	Q	Q

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Workers (main shift)								
Fewer than 5	14,321	10,552	4,405	6,432	912	289	1,136	190
5 to 9	6,325	6,020	2,941	3,910	634	292	372	Q
10 to 19	8,028	7,772	3,981	4,784	518	372	378	Q
20 to 49	10,814	10,347	5,599	6,585	691	534	456	Q
50 to 99	8,898	8,536	4,817	5,229	925	645	Q	Q
100 to 249	8,356	8,053	4,500	5,126	900	1,031	Q	Q
250 or More	10,595	10,333	6,048	5,836	1,031	2,371	Q	Q
Weekly Operating Hours								
39 or Fewer	6,596	4,217	1,636	2,441	486	Q	809	Q
40 to 48	13,105	12,090	6,215	7,330	952	730	576	Q
49 to 60	14,200	13,677	7,065	8,499	1,403	910	416	388
61 to 84	12,458	11,787	6,632	7,120	896	911	368	Q
85 to 167	9,116	8,399	4,540	5,438	703	830	288	Q
Open Continuously	11,863	11,442	6,204	7,074	1,170	2,114	272	Q
Energy Sources (more than one may apply)								
Electricity	65,716	61,575	32,291	37,874	5,602	5,534	2,728	945
Natural Gas	45,525	44,394	21,230	37,902	2,447	2,431	250	524
Fuel Oil	13,285	13,083	6,470	5,793	5,611	1,787	398	Q
District Heat	5,891	5,862	1,903	844	Q	5,534	Q	Q
District Chilled Water	2,750	2,739	1,012	517	Q	2,279	Q	Q
Propane	6,290	6,076	2,809	1,645	1,510	Q	2,728	Q
Other	2,322	2,276	1,015	1,368	Q	Q	Q	945
Primary Space-Heating Energy Source								
Electricity	17,627	17,627	17,627	4,465	333	Q	288	Q
Natural Gas	32,729	32,729	11,902	32,729	1,422	211	Q	Q
Fuel Oil	3,719	3,719	799	149	3,719	Q	Q	Q
District Heat	5,077	5,077	1,277	378	Q	5,077	Q	Q
Propane	2,107	2,107	593	Q	Q	N	2,107	Q
Other	343	343	Q	Q	Q	N	Q	343
Cooling Energy Sources (more than one may apply)								
Electricity	55,545	53,468	30,329	33,933	4,590	3,173	2,169	768
Natural Gas	1,914	1,898	935	1,852	Q	Q	Q	N
District Chilled Water	2,750	2,739	1,012	517	Q	2,279	Q	Q
Water-Heating Energy Sources (more than one may apply)								
Electricity	24,171	23,070	16,403	11,446	1,636	906	1,129	496
Natural Gas	29,196	28,489	13,417	25,292	1,758	629	Q	Q
Fuel Oil	2,218	2,206	627	573	2,045	Q	Q	Q
District Heat	4,182	4,162	1,132	525	Q	3,968	Q	Q
Propane	1,371	1,227	493	Q	Q	N	770	Q
Cooking Energy Sources (more than one may apply)								
Electricity	13,733	13,193	8,107	7,676	1,530	1,327	455	Q
Natural Gas	16,785	16,256	8,646	12,403	1,621	1,522	Q	Q
Propane	1,754	1,683	991	Q	540	Q	461	Q

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Energy End Uses (more than one may apply)								
Buildings with Space Heating	61,602	61,602	32,291	37,893	5,611	5,534	2,728	945
Buildings with Cooling	58,474	56,370	30,961	35,080	4,638	4,844	2,191	779
Buildings with Water Heating	56,115	54,213	28,867	34,164	4,759	4,943	2,018	682
Buildings with Cooking	24,681	23,823	13,404	14,929	2,814	2,337	801	477
Buildings with Manufacturing	3,126	3,031	1,668	1,940	Q	Q	Q	Q
Buildings with Electricity Generation	11,882	11,652	6,951	6,847	1,510	1,986	253	Q
Percent of Floorspace Heated								
Not Heated	5,736	Q	N	Q	N	N	N	N
1 to 50	7,593	7,593	4,722	4,319	564	Q	461	Q
51 to 99	10,745	10,745	6,110	6,642	786	886	421	Q
100	43,264	43,264	21,459	26,932	4,260	4,575	1,845	593
Heating Equipment (more than one may apply)								
Heat Pumps	8,923	8,923	8,667	4,466	532	730	204	Q
Furnaces	14,449	14,449	6,822	11,524	1,295	Q	1,075	Q
Individual Space Heaters	17,349	17,349	12,350	11,488	1,444	1,210	1,051	534
District Heat	5,534	5,534	1,609	678	Q	5,534	Q	Q
Boilers	19,522	19,522	8,410	15,131	4,176	Q	672	420
Packaged Heating Units	25,743	25,743	16,861	17,324	1,040	767	937	Q
Other	4,073	4,073	2,972	1,982	341	249	272	315

^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.