

Table B17. Energy Sources, Number of Buildings, 1999

	Number of Buildings (thousand)								
	All Buildings	All Buildings Using Any Energy Source	Energy Sources Used (more than one may apply)						
			Electricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Other ^a
All Buildings	4,657	4,403	4,395	2,670	434	117	50	451	153
Building Floorspace (Square Feet)									
1,001 to 5,000	2,348	2,193	2,186	1,193	220	Q	Q	215	93
5,001 to 10,000	1,110	1,036	1,036	684	74	Q	Q	124	Q
10,001 to 25,000	708	689	688	448	65	24	Q	74	19
25,001 to 50,000	257	253	253	176	28	19	7	17	7
50,001 to 100,000	145	143	143	103	22	13	7	13	5
100,001 to 200,000	59	59	59	42	13	7	5	6	Q
200,001 to 500,000	23	23	23	18	9	3	2	2	Q
Over 500,000	7	7	7	5	4	2	1	1	Q
Principal Building Activity									
Education	327	327	327	225	19	37	Q	17	7
Food Sales	174	173	173	88	Q	Q	N	Q	Q
Food Service	349	349	349	246	Q	Q	Q	78	Q
Health Care	127	127	127	73	14	3	2	Q	Q
Inpatient	11	11	11	9	9	3	2	Q	Q
Outpatient	116	116	116	63	Q	Q	Q	Q	Q
Lodging	153	153	153	104	7	18	Q	20	Q
Mercantile	667	667	667	439	87	Q	Q	37	38
Retail (Other Than Mall)	534	534	534	350	76	Q	Q	30	Q
Enclosed and Strip Malls	133	133	133	89	Q	N	Q	7	Q
Office	739	738	738	452	88	20	6	30	4
Public Assembly	305	299	299	187	24	15	Q	52	Q
Public Order and Safety	72	64	64	31	20	3	Q	Q	Q
Religious Worship	307	307	307	214	22	Q	Q	62	Q
Service	478	472	472	277	80	Q	Q	43	Q
Warehouse and Storage	603	496	496	226	18	Q	Q	50	Q
Other	102	98	98	40	Q	Q	Q	Q	Q
Vacant	253	130	123	68	Q	Q	N	Q	Q
Year Constructed									
1919 or Before	419	364	363	291	53	20	Q	Q	Q
1920 to 1945	499	480	480	329	55	9	2	45	Q
1946 to 1959	763	724	716	426	109	21	5	65	36
1960 to 1969	665	628	628	406	65	18	7	72	12
1970 to 1979	774	758	758	481	37	Q	Q	66	24
1980 to 1989	846	781	781	389	70	16	Q	89	39
1990 to 1999	690	669	669	349	45	15	4	94	Q
Census Region									
Northeast	686	640	639	311	218	31	2	112	21
Midwest	1,188	1,113	1,113	874	48	25	14	109	37
South	1,762	1,689	1,689	820	138	39	Q	167	64
West	1,021	961	954	665	30	22	13	62	Q
Climate Zone: 45-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	525	491	491	329	73	3	Q	94	Q
5,500-7,000 HDD	986	924	924	652	123	22	6	91	29
4,000-5,499 HDD	1,085	1,029	1,029	551	185	46	Q	130	53
Fewer than 4,000 HDD	1,134	1,077	1,070	727	19	14	7	64	16
2,000 CDD or More and --									
Fewer than 4,000 HDD	926	882	882	410	34	33	23	72	48

Table B17. Energy Sources, Number of Buildings, 1999

	Number of Buildings (thousand)								
	All Buildings	All Buildings Using Any Energy Source	Energy Sources Used (more than one may apply)						
			Electricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Other ^a
Workers (main shift)									
Fewer than 5	2,376	2,129	2,121	1,151	182	38	Q	215	83
5 to 9	807	800	800	560	95	18	Q	71	Q
10 to 19	683	683	683	424	54	15	Q	74	Q
20 to 49	487	487	487	321	54	12	3	73	23
50 to 99	174	174	174	118	17	19	10	11	5
100 to 249	90	90	90	67	18	9	4	6	Q
250 or More	39	39	39	28	15	7	5	2	1
Weekly Operating Hours									
39 or Fewer	978	777	770	376	65	Q	Q	135	Q
40 to 48	1,156	1,147	1,147	673	102	41	Q	98	36
49 to 60	986	980	980	651	110	18	13	55	42
61 to 84	664	649	649	447	63	17	6	56	29
85 to 167	474	459	459	285	29	14	4	69	Q
Open Continuously	398	390	390	238	65	26	11	39	Q
Ownership and Occupancy									
Nongovernment Owned	4,135	3,905	3,898	2,366	386	67	21	415	144
Owner Occupied	2,801	2,747	2,747	1,605	311	53	13	355	126
Nonowner Occupied	1,099	1,069	1,069	719	75	Q	Q	57	17
Unoccupied	236	89	82	43	Q	N	N	Q	Q
Government Owned	521	498	498	304	48	50	29	36	9
Vacancy Status									
Completely Vacant	140	51	44	Q	N	N	N	Q	N
Mostly Vacant	113	80	79	40	Q	Q	N	Q	Q
Partially Vacant	697	636	636	370	51	Q	Q	57	Q
Not At All Vacant	3,707	3,636	3,636	2,232	376	94	36	390	129
Energy Sources (more than one may apply)									
Electricity	4,395	4,395	4,395	2,663	434	117	50	451	153
Natural Gas	2,670	2,670	2,663	2,670	91	52	21	35	59
Fuel Oil	434	434	434	91	434	8	3	80	26
District Heat	117	117	117	52	8	117	43	Q	Q
District Chilled Water	50	50	50	21	3	43	50	Q	Q
Propane	451	451	451	35	80	Q	Q	451	36
Other	153	153	153	59	26	Q	Q	36	153
Energy End Uses (more than one may apply)									
Buildings with Space Heating	4,016	4,016	4,008	2,588	432	116	49	434	149
Buildings with Cooling	3,560	3,560	3,560	2,335	302	97	50	318	107
Buildings with Water Heating	3,239	3,239	3,239	2,191	288	101	37	334	89
Buildings with Cooking	857	857	857	615	92	28	6	158	47
Buildings with Manufacturing	151	151	151	77	35	Q	Q	Q	Q
Buildings with Electricity Generation	172	172	172	118	75	15	5	27	33
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	767	767	767	551	79	25	6	138	47
Activities with Large Amounts of Hot Water	698	698	698	542	77	47	20	108	29

^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.

Table B18. Energy Sources, Floorspace, 1999

	Total Floorspace (million square feet)								
	All Buildings	All Buildings Using Any Energy Source	Energy Sources Used (more than one may apply)						
			Electricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Other ^a
All Buildings	67,338	65,753	65,716	45,525	13,285	5,891	2,750	6,290	2,322
Building Floorspace (Square Feet)									
1,001 to 5,000	6,774	6,309	6,280	3,566	620	Q	Q	635	292
5,001 to 10,000	8,238	7,721	7,721	5,088	583	Q	Q	986	Q
10,001 to 25,000	11,153	10,851	10,843	7,001	983	414	Q	1,203	290
25,001 to 50,000	9,311	9,175	9,175	6,405	983	660	294	568	250
50,001 to 100,000	10,112	10,034	10,034	7,165	1,612	933	525	865	350
100,001 to 200,000	8,271	8,246	8,246	5,915	1,875	903	630	854	Q
200,001 to 500,000	6,851	6,790	6,790	5,282	2,984	1,003	470	616	Q
Over 500,000	6,628	6,628	6,628	5,104	3,645	1,707	630	562	Q
Principal Building Activity									
Education	8,651	8,651	8,651	6,570	1,635	1,159	676	757	325
Food Sales	994	993	993	659	Q	Q	N	Q	Q
Food Service	1,851	1,851	1,851	1,510	Q	Q	Q	298	Q
Health Care	2,918	2,918	2,918	2,285	1,754	744	433	Q	Q
Inpatient	1,865	1,865	1,865	1,677	1,605	649	356	Q	Q
Outpatient	1,053	1,053	1,053	609	Q	Q	Q	Q	Q
Lodging	4,521	4,521	4,521	3,548	789	629	219	587	Q
Mercantile	10,398	10,398	10,398	7,887	1,411	Q	Q	863	365
Retail (Other Than Mall)	4,766	4,766	4,766	3,518	553	Q	Q	276	Q
Enclosed and Strip Malls	5,631	5,631	5,631	4,369	858	N	Q	587	Q
Office	12,044	12,043	12,043	7,356	3,913	1,536	678	370	192
Public Assembly	4,393	4,340	4,340	2,989	850	848	436	469	Q
Public Order and Safety	1,168	1,030	1,030	627	398	297	Q	Q	Q
Religious Worship	3,405	3,405	3,405	2,457	187	Q	Q	714	Q
Service	3,388	3,358	3,358	2,093	641	Q	Q	272	Q
Warehouse and Storage	10,477	9,879	9,879	6,211	1,102	Q	Q	1,338	Q
Other	1,222	1,217	1,217	707	205	Q	Q	Q	Q
Vacant	1,908	1,149	1,112	626	Q	Q	N	Q	Q
Year Constructed									
1919 or Before	4,034	3,722	3,714	2,766	745	486	Q	Q	Q
1920 to 1945	6,445	6,281	6,281	4,257	1,060	764	134	473	Q
1946 to 1959	9,127	8,822	8,794	6,040	1,782	1,088	406	748	433
1960 to 1969	10,866	10,686	10,686	7,512	2,349	1,406	633	1,220	353
1970 to 1979	11,840	11,750	11,750	8,080	2,446	788	492	1,033	352
1980 to 1989	13,931	13,485	13,485	8,794	2,795	682	424	1,333	499
1990 to 1999	11,094	11,007	11,007	8,076	2,108	677	407	1,295	353
Census Region									
Northeast	12,360	11,972	11,964	7,305	5,414	1,898	326	1,706	580
Midwest	16,761	16,389	16,389	13,506	2,423	1,521	746	1,405	606
South	23,485	23,076	23,076	14,199	3,749	1,265	939	2,389	579
West	14,731	14,315	14,287	10,515	1,699	1,207	739	790	557
Climate Zone: 45-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	5,890	5,750	5,750	4,064	1,612	250	Q	1,166	Q
5,500-7,000 HDD	17,083	16,706	16,706	12,573	3,773	1,743	763	1,343	691
4,000-5,499 HDD	16,243	15,800	15,792	10,455	4,531	2,443	653	1,619	602
Fewer than 4,000 HDD	16,333	15,951	15,922	12,149	1,903	875	683	1,040	442
2,000 CDD or More and --									
Fewer than 4,000 HDD	11,788	11,546	11,546	6,285	1,466	581	589	1,122	383

Table B18. Energy Sources, Floorspace, 1999

	Total Floorspace (million square feet)								
	All Buildings	All Buildings Using Any Energy Source	Energy Sources Used (more than one may apply)						
			Electricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Other ^a
Workers (main shift)									
Fewer than 5	14,321	12,788	12,750	7,108	964	390	Q	1,451	345
5 to 9	6,325	6,274	6,274	4,633	796	304	Q	646	Q
10 to 19	8,028	8,028	8,028	5,589	676	475	Q	688	Q
20 to 49	10,814	10,814	10,814	7,737	1,294	544	162	1,189	317
50 to 99	8,898	8,898	8,898	6,278	1,593	696	478	839	364
100 to 249	8,356	8,356	8,356	6,146	2,482	1,052	484	787	417
250 or More	10,595	10,595	10,595	8,035	5,480	2,431	1,234	691	527
Weekly Operating Hours									
39 or Fewer	6,596	5,351	5,314	2,825	504	Q	Q	944	Q
40 to 48	13,105	13,070	13,070	8,197	1,540	796	239	1,026	285
49 to 60	14,200	14,186	14,186	9,714	2,638	945	589	1,068	570
61 to 84	12,458	12,381	12,381	9,007	2,500	943	504	980	440
85 to 167	9,116	8,930	8,930	6,449	1,532	915	505	1,085	324
Open Continuously	11,863	11,835	11,835	9,334	4,571	2,254	893	1,187	582
Ownership and Occupancy									
Nongovernment Owned	54,994	53,668	53,640	37,026	9,893	3,333	1,560	5,305	1,864
Owner Occupied	37,785	37,506	37,506	25,597	8,284	2,907	1,325	4,051	1,486
Nonowner Occupied	15,596	15,441	15,441	10,968	1,605	426	Q	1,244	358
Unoccupied	1,613	721	693	461	Q	N	N	Q	Q
Government Owned	12,343	12,085	12,076	8,500	3,392	2,559	1,190	985	458
Vacancy Status									
Completely Vacant	953	385	356	Q	N	N	N	Q	N
Mostly Vacant	956	765	756	367	Q	Q	N	Q	Q
Partially Vacant	15,520	15,093	15,093	10,725	3,528	1,311	521	1,051	378
Not At All Vacant	49,910	49,511	49,511	34,174	9,639	4,570	2,229	5,213	1,891
Energy Sources (more than one may apply)									
Electricity	65,716	65,716	65,716	45,496	13,277	5,891	2,750	6,290	2,322
Natural Gas	45,525	45,525	45,496	45,525	8,088	2,683	1,316	1,887	1,572
Fuel Oil	13,285	13,285	13,277	8,088	13,285	1,839	749	2,296	554
District Heat	5,891	5,891	5,891	2,683	1,839	5,891	2,354	Q	Q
District Chilled Water	2,750	2,750	2,750	1,316	749	2,354	2,750	Q	Q
Propane	6,290	6,290	6,290	1,887	2,296	Q	Q	6,290	438
Other	2,322	2,322	2,322	1,572	554	Q	Q	438	2,322
Energy End Uses (more than one may apply)									
Buildings with Space Heating	61,602	61,602	61,565	44,385	13,074	5,862	2,739	6,076	2,276
Buildings with Cooling	58,474	58,474	58,474	42,147	12,185	5,165	2,750	5,415	2,069
Buildings with Water Heating	56,115	56,115	56,115	41,366	11,852	5,301	2,455	5,409	1,887
Buildings with Cooking	24,681	24,681	24,681	19,857	7,840	2,487	1,047	3,005	1,331
Buildings with Manufacturing	3,126	3,126	3,126	2,322	555	Q	Q	403	Q
Buildings with Electricity Generation	11,882	11,882	11,882	9,119	8,749	2,083	919	1,486	1,132
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	23,328	23,328	23,328	18,916	7,576	2,416	1,027	2,712	1,331
Activities with Large Amounts of Hot Water	21,793	21,793	21,793	17,601	6,856	2,735	1,158	2,643	1,165

^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.

Table B19. Energy End Uses, Number of Buildings and Floorspace, 1999

	Number of Buildings (thousand)						Total Floorspace (million square feet)					
	All Buildings	Energy Used For (more than one may apply)					All Buildings	Energy Used For (more than one may apply)				
		Space Heating	Cooling	Water Heating	Cooking	Manufacturing		Space Heating	Cooling	Water Heating	Cooking	Manufacturing
All Buildings	4,657	4,016	3,560	3,239	857	151	67,338	61,602	58,474	56,115	24,681	3,126
Building Floorspace												
(Square Feet)												
1,001 to 5,000	2,348	1,982	1,680	1,456	357	Q	6,774	5,684	4,879	4,280	1,095	Q
5,001 to 10,000	1,110	946	828	778	176	36	8,238	7,090	6,212	5,748	1,272	318
10,001 to 25,000	708	629	611	574	150	28	11,153	9,865	9,530	9,000	2,415	519
25,001 to 50,000	257	237	223	222	72	11	9,311	8,565	8,116	8,088	2,630	390
50,001 to 100,000	145	137	134	127	54	9	10,112	9,597	9,401	8,887	3,901	600
100,001 to 200,000	59	57	55	54	29	3	8,271	7,893	7,609	7,527	4,092	478
200,001 to 500,000	23	22	21	21	14	1	6,851	6,445	6,345	6,258	4,254	283
Over 500,000	7	7	7	7	5	Q	6,628	6,465	6,382	6,327	5,020	Q
Principal Building Activity												
Education	327	326	274	240	106	Q	8,651	8,612	7,973	8,059	5,670	Q
Food Sales	174	149	166	163	85	Q	994	880	978	951	676	Q
Food Service	349	321	324	349	316	Q	1,851	1,721	1,760	1,846	1,761	Q
Health Care	127	127	127	126	11	Q	2,918	2,918	2,815	2,903	1,812	Q
Inpatient	11	11	11	11	9	Q	1,865	1,865	1,762	1,862	1,738	Q
Outpatient	116	116	116	115	Q	N	1,053	1,053	1,053	1,040	Q	N
Lodging	153	150	126	149	41	Q	4,521	4,424	4,051	4,442	2,401	Q
Mercantile	667	626	632	439	96	Q	10,398	9,848	10,174	8,698	5,218	Q
Retail (Other Than Mall)	534	502	499	323	29	Q	4,766	4,615	4,573	3,453	811	Q
Enclosed and Strip Malls	133	123	132	116	68	Q	5,631	5,233	5,601	5,244	4,407	Q
Office	739	728	716	615	19	Q	12,044	11,810	11,782	10,872	3,149	441
Public Assembly	305	274	232	249	101	Q	4,393	4,015	3,859	3,893	2,027	Q
Public Order and Safety	72	61	32	41	12	Q	1,168	1,021	760	830	301	Q
Religious Worship	307	306	232	252	51	N	3,405	3,383	2,765	3,109	842	N
Service	478	421	289	280	Q	25	3,388	3,027	2,481	2,351	Q	325
Warehouse and Storage	603	357	308	227	Q	51	10,477	8,104	7,621	6,743	Q	1,634
Other	102	84	76	64	Q	Q	1,222	1,086	1,087	983	Q	Q
Vacant	253	84	27	44	Q	Q	1,908	754	368	436	Q	Q
Year Constructed												
1919 or Before	419	350	260	277	69	Q	4,034	3,593	2,911	3,130	1,091	Q
1920 to 1945	499	430	313	311	85	Q	6,445	5,559	4,383	4,644	2,232	Q
1946 to 1959	763	666	589	493	115	28	9,127	8,402	7,601	7,154	3,195	535
1960 to 1969	665	557	496	493	131	19	10,866	9,966	9,325	9,421	4,178	409
1970 to 1979	774	691	649	592	161	32	11,840	10,916	11,050	10,182	4,551	555
1980 to 1989	846	713	702	623	173	37	13,931	12,566	12,849	12,137	5,030	744
1990 to 1999	690	608	549	450	124	Q	11,094	10,600	10,355	9,446	4,403	485
Census Region												
Northeast	686	601	473	515	141	22	12,360	11,667	10,311	10,577	5,245	568
Midwest	1,188	1,049	861	776	221	18	16,761	15,916	14,371	13,702	6,042	818
South	1,762	1,503	1,506	1,179	315	87	23,485	20,598	21,549	19,014	8,569	1,035
West	1,021	863	720	769	181	24	14,731	13,421	12,243	12,822	4,825	706
Climate Zone: 45-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	525	475	366	396	97	Q	5,890	5,669	4,804	5,090	2,213	319
5,500-7,000 HDD	986	870	711	674	189	9	17,083	16,206	14,289	14,123	6,319	571
4,000-5,499 HDD	1,085	950	766	751	200	43	16,243	15,292	13,999	13,800	6,558	869
Fewer than 4,000 HDD	1,134	997	913	836	211	34	16,333	14,923	14,535	14,128	5,519	827
2,000 CDD or More and --												
Fewer than 4,000 HDD	926	724	803	582	160	53	11,788	9,512	10,847	8,973	4,072	540

Table B19. Energy End Uses, Number of Buildings and Floorspace, 1999

	Number of Buildings (thousand)						Total Floorspace (million square feet)					
	All Buildings	Energy Used For (more than one may apply)					All Buildings	Energy Used For (more than one may apply)				
		Space Heating	Cooling	Water Heating	Cooking	Manufacturing		Space Heating	Cooling	Water Heating	Cooking	Manufacturing
Workers (main shift)												
Fewer than 5	2,376	1,835	1,513	1,312	287	Q	14,321	10,552	8,704	8,401	1,651	Q
5 to 9	807	773	681	643	131	24	6,325	6,020	5,291	5,145	1,341	230
10 to 19	683	667	636	586	172	31	8,028	7,762	7,409	7,000	2,021	477
20 to 49	487	456	433	417	154	29	10,814	10,347	9,930	9,445	3,871	645
50 to 99	174	166	169	159	65	12	8,898	8,536	8,519	8,166	4,354	544
100 to 249	90	81	88	85	30	3	8,356	8,053	8,129	7,760	4,305	436
250 or More	39	38	39	36	18	2	10,595	10,333	10,491	10,199	7,138	544
Weekly Operating Hours												
39 or Fewer	978	638	439	427	93	Q	6,596	4,217	3,113	3,340	884	Q
40 to 48	1,156	1,068	968	779	97	47	13,105	12,090	11,041	10,049	2,492	753
49 to 60	986	943	850	746	131	43	14,200	13,677	13,225	12,280	4,159	717
61 to 84	664	598	563	521	188	24	12,458	11,787	11,701	11,334	6,052	607
85 to 167	474	407	436	436	264	5	9,116	8,399	8,528	8,041	4,659	423
Open Continuously	398	361	304	330	85	Q	11,863	11,432	10,866	11,070	6,435	474
Energy Sources (more than one may apply)												
Electricity	4,395	4,008	3,560	3,239	857	151	65,716	61,565	58,474	56,115	24,681	3,126
Natural Gas	2,670	2,588	2,335	2,191	615	77	45,525	44,385	42,147	41,366	19,857	2,322
Fuel Oil	434	432	302	288	92	35	13,285	13,074	12,185	11,852	7,840	555
District Heat	117	116	97	101	28	Q	5,891	5,862	5,165	5,301	2,487	Q
District Chilled Water	50	49	50	37	6	Q	2,750	2,739	2,750	2,455	1,047	Q
Propane	451	434	318	334	158	Q	6,290	6,076	5,415	5,409	3,005	403
Other	153	149	107	89	47	Q	2,322	2,276	2,069	1,887	1,331	Q
Energy End Uses (more than one may apply)												
Buildings with Space Heating	4,016	4,016	3,400	3,087	798	143	61,602	61,602	56,361	54,204	23,813	3,031
Buildings with Cooling	3,560	3,400	3,560	2,915	792	129	58,474	56,361	58,474	52,589	23,730	2,861
Buildings with Water Heating	3,239	3,087	2,915	3,239	818	89	56,115	54,204	52,589	56,115	23,830	2,364
Buildings with Cooking	857	798	792	818	857	Q	24,681	23,813	23,730	23,830	24,681	495
Buildings with Manufacturing	151	143	129	89	Q	151	3,126	3,031	2,861	2,364	495	3,126
Buildings with Electricity Generation	172	169	149	143	63	Q	11,882	11,643	11,538	11,079	7,823	330
Energy-Related Space Functions (more than one may apply)												
Commercial Food Preparation	767	711	716	733	767	Q	23,328	22,488	22,457	22,563	23,328	478
Activities with Large Amounts of Hot Water	698	674	635	698	422	Q	21,793	21,325	20,687	21,793	16,513	584

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.

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

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
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

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
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.

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

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
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

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
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.

Table B22. Primary Space-Heating Energy Sources, Number of Buildings, 1999

	Number of Buildings (thousand)					
	All Buildings	All Buildings with Space Heating	Primary Space-Heating Energy Source Used ^f			
			Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings	4,657	4,016	1,128	2,189	302	77
Building Floorspace (Square Feet)						
1,001 to 5,000	2,348	1,982	591	1,028	167	Q
5,001 to 10,000	1,110	946	200	582	70	Q
10,001 to 25,000	708	629	195	336	40	13
25,001 to 50,000	257	237	79	122	14	16
50,001 to 100,000	145	137	39	76	7	12
100,001 to 200,000	59	57	18	30	3	6
200,001 to 500,000	23	22	5	12	2	3
Over 500,000	7	7	2	3	Q	2
Principal Building Activity						
Education	327	326	111	172	14	20
Food Sales	174	149	53	77	Q	Q
Food Service	349	321	87	176	Q	Q
Health Care	127	127	55	62	Q	3
Inpatient	11	11	Q	5	Q	2
Outpatient	116	116	55	57	Q	Q
Lodging	153	150	80	55	Q	13
Mercantile	667	626	187	360	50	Q
Retail (Other Than Mall)	534	502	126	305	43	Q
Enclosed and Strip Malls	133	123	61	54	Q	N
Office	739	728	252	376	64	18
Public Assembly	305	274	58	144	Q	15
Public Order and Safety	72	61	Q	28	Q	3
Religious Worship	307	306	29	200	Q	Q
Service	478	421	83	235	Q	Q
Warehouse and Storage	603	357	100	201	Q	Q
Other	102	84	Q	38	Q	Q
Vacant	253	84	Q	66	Q	Q
Year Constructed						
1919 or Before	419	350	21	250	50	19
1920 to 1945	499	430	60	299	41	9
1946 to 1959	763	666	181	346	86	14
1960 to 1969	665	557	105	345	45	15
1970 to 1979	774	691	233	383	20	6
1980 to 1989	846	713	311	282	35	10
1990 to 1999	690	608	218	284	Q	4
Census Region						
Northeast	686	601	76	254	190	24
Midwest	1,188	1,049	128	792	Q	21
South	1,762	1,503	672	598	92	16
West	1,021	863	253	545	Q	16
Climate Zone: 45-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	525	475	31	311	59	2
5,500-7,000 HDD	986	870	114	583	83	22
4,000-5,499 HDD	1,085	950	245	446	136	35
Fewer than 4,000 HDD	1,134	997	365	566	Q	7
2,000 CDD or More and --						
Fewer than 4,000 HDD	926	724	373	283	Q	11

Table B22. Primary Space-Heating Energy Sources, Number of Buildings, 1999

	Number of Buildings (thousand)					
	All Buildings	All Buildings with Space Heating	Primary Space-Heating Energy Source Used ^f			
			Electricity	Natural Gas	Fuel Oil	District Heat
Workers (main shift)						
Fewer than 5	2,376	1,835	480	1,004	134	21
5 to 9	807	773	174	469	77	13
10 to 19	683	667	221	339	41	10
20 to 49	487	456	148	234	37	11
50 to 99	174	166	72	77	7	8
100 to 249	90	81	21	47	5	7
250 or More	39	38	12	19	1	6
Weekly Operating Hours						
39 or Fewer	978	638	119	343	51	Q
40 to 48	1,156	1,068	315	576	74	24
49 to 60	986	943	263	544	92	16
61 to 84	664	598	162	351	39	9
85 to 167	474	407	136	207	19	7
Open Continuously	398	361	132	167	28	20
Energy Sources (more than one may apply)						
Electricity	4,395	4,008	1,128	2,182	302	77
Natural Gas	2,670	2,588	331	2,189	25	33
Fuel Oil	434	432	64	54	302	6
District Heat	117	116	35	4	Q	77
District Chilled Water	50	49	Q	3	Q	28
Propane	451	434	57	24	62	Q
Other	153	149	38	41	Q	Q
Energy End Uses (more than one may apply)						
Buildings with Space Heating	4,016	4,016	1,128	2,189	302	77
Buildings with Cooling	3,560	3,400	1,058	1,883	192	58
Buildings with Water Heating	3,239	3,087	867	1,759	205	70
Buildings with Cooking	857	798	210	438	58	13
Buildings with Manufacturing	151	143	51	58	Q	Q
Buildings with Electricity Generation	172	169	51	87	20	9
Percent of Floorspace Heated						
Not Heated	641	N	N	N	N	N
1 to 50	576	576	189	277	44	Q
51 to 99	627	627	165	365	45	15
100	2,813	2,813	774	1,547	213	61
Heating Equipment (more than one may apply)						
Heat Pumps	492	492	373	97	Q	3
Furnaces	1,460	1,460	192	1,017	119	Q
Individual Space Heaters	894	894	213	498	79	5
District Heat	96	96	Q	2	Q	77
Boilers	581	581	40	364	136	Q
Packaged Heating Units	1,347	1,347	494	758	Q	4
Other	185	185	62	60	Q	Q

^a Additionally, 282,000 buildings used propane; 38,000 buildings 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.

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

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
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.

Table B24. Cooling Energy Sources, Number of Buildings and Floorspace, 1999

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings	All Buildings with Cooling	Cooling Energy Sources (more than one may apply)			All Buildings	All Buildings with Cooling	Cooling Energy Sources (more than one may apply)		
			Electricity	Natural Gas	District Chilled Water			Electricity	Natural Gas	District Chilled Water
All Buildings	4,657	3,560	3,450	142	50	67,338	58,474	55,545	1,914	2,750
Building Floorspace (Square Feet)										
1,001 to 5,000	2,348	1,680	1,640	Q	Q	6,774	4,879	4,784	Q	Q
5,001 to 10,000	1,110	828	796	Q	Q	8,238	6,212	5,938	Q	Q
10,001 to 25,000	708	611	596	23	Q	11,153	9,530	9,307	325	Q
25,001 to 50,000	257	223	214	8	7	9,311	8,116	7,753	268	294
50,001 to 100,000	145	134	127	4	7	10,112	9,401	8,870	315	525
100,001 to 200,000	59	55	51	2	5	8,271	7,609	7,011	282	630
200,001 to 500,000	23	21	20	Q	2	6,851	6,345	5,991	Q	470
Over 500,000	7	7	6	Q	1	6,628	6,382	5,890	Q	630
Principal Building Activity										
Education	327	274	265	Q	Q	8,651	7,973	7,305	Q	676
Food Sales	174	166	148	Q	N	994	978	947	Q	N
Food Service	349	324	312	Q	Q	1,851	1,760	1,687	Q	Q
Health Care	127	127	125	Q	2	2,918	2,815	2,537	Q	433
Inpatient	11	11	9	Q	2	1,865	1,762	1,554	Q	356
Outpatient	116	116	116	Q	Q	1,053	1,053	983	Q	Q
Lodging	153	126	123	Q	Q	4,521	4,051	3,880	Q	219
Mercantile	667	632	622	26	Q	10,398	10,174	9,914	462	Q
Retail (Other Than Mall)	534	499	491	Q	Q	4,766	4,573	4,423	Q	Q
Enclosed and Strip Malls	133	132	131	Q	Q	5,631	5,601	5,492	Q	Q
Office	739	716	695	31	6	12,044	11,782	11,024	319	678
Public Assembly	305	232	214	Q	Q	4,393	3,859	3,544	Q	436
Public Order and Safety	72	32	31	Q	Q	1,168	760	706	Q	Q
Religious Worship	307	232	231	Q	Q	3,405	2,765	2,763	Q	Q
Service	478	289	288	Q	Q	3,388	2,481	2,470	Q	Q
Warehouse and Storage	603	308	305	Q	Q	10,477	7,621	7,520	Q	Q
Other	102	76	64	Q	Q	1,222	1,087	880	Q	Q
Vacant	253	27	27	N	N	1,908	368	368	N	N
Year Constructed										
1919 or Before	419	260	245	Q	Q	4,034	2,911	2,632	Q	Q
1920 to 1945	499	313	312	Q	2	6,445	4,383	4,235	Q	134
1946 to 1959	763	589	578	Q	5	9,127	7,601	7,160	Q	406
1960 to 1969	665	496	472	26	7	10,866	9,325	8,676	353	633
1970 to 1979	774	649	636	35	Q	11,840	11,050	10,583	376	492
1980 to 1989	846	702	693	11	Q	13,931	12,849	12,490	300	424
1990 to 1999	690	549	514	Q	4	11,094	10,355	9,770	416	407
Census Region										
Northeast	686	473	459	13	2	12,360	10,311	9,766	446	326
Midwest	1,188	861	825	48	14	16,761	14,371	13,474	550	746
South	1,762	1,506	1,492	Q	Q	23,485	21,549	20,908	266	939
West	1,021	720	673	60	13	14,731	12,243	11,396	652	739
Climate Zone: 45-Year Average										
Under 2,000 CDD and --										
More than 7,000 HDD	525	366	347	Q	Q	5,890	4,804	4,631	249	Q
5,500-7,000 HDD	986	711	689	35	6	17,083	14,289	13,284	743	763
4,000-5,499 HDD	1,085	766	734	30	Q	16,243	13,999	13,213	423	653
Fewer than 4,000 HDD	1,134	913	885	42	7	16,333	14,535	13,972	405	683
2,000 CDD or More and --										
Fewer than 4,000 HDD	926	803	795	Q	23	11,788	10,847	10,444	Q	589

Table B24. Cooling Energy Sources, Number of Buildings and Floorspace, 1999

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings	All Buildings with Cooling	Cooling Energy Sources (more than one may apply)			All Buildings	All Buildings with Cooling	Cooling Energy Sources (more than one may apply)		
			Electricity	Natural Gas	District Chilled Water			Electricity	Natural Gas	District Chilled Water
Workers (main shift)										
Fewer than 5	2,376	1,513	1,466	63	Q	14,321	8,704	8,396	398	Q
5 to 9	807	681	667	Q	Q	6,325	5,291	5,146	Q	Q
10 to 19	683	636	617	Q	Q	8,028	7,409	7,086	Q	Q
20 to 49	487	433	420	Q	3	10,814	9,930	9,634	258	162
50 to 99	174	169	163	Q	10	8,898	8,519	8,208	287	478
100 to 249	90	88	82	5	4	8,356	8,129	7,505	361	484
250 or More	39	39	35	0	5	10,595	10,491	9,570	173	1,234
Weekly Operating Hours										
39 or Fewer	978	439	438	Q	Q	6,596	3,113	3,085	Q	Q
40 to 48	1,156	968	955	24	Q	13,105	11,041	10,724	321	239
49 to 60	986	850	808	40	13	14,200	13,225	12,456	418	589
61 to 84	664	563	547	20	6	12,458	11,701	11,074	344	504
85 to 167	474	436	419	29	4	9,116	8,528	7,964	380	505
Open Continuously	398	304	285	Q	11	11,863	10,866	10,242	281	893
Energy Sources (more than one may apply)										
Electricity	4,395	3,560	3,450	142	50	65,716	58,474	55,545	1,914	2,750
Natural Gas	2,670	2,335	2,237	142	21	45,525	42,147	40,387	1,914	1,316
Fuel Oil	434	302	299	2	3	13,285	12,185	11,591	218	749
District Heat	117	97	73	Q	43	5,891	5,165	3,459	Q	2,354
District Chilled Water	50	50	24	Q	50	2,750	2,750	1,093	Q	2,750
Propane	451	318	315	Q	Q	6,290	5,415	5,327	Q	Q
Other	153	107	106	Q	Q	2,322	2,069	1,975	Q	Q
Primary Space-Heating Energy Source										
Electricity	1,128	1,058	1,055	Q	Q	17,627	17,160	16,992	Q	310
Natural Gas	2,189	1,883	1,806	120	3	32,729	30,003	28,934	1,663	334
Fuel Oil	302	192	192	Q	Q	3,719	2,912	2,907	Q	Q
District Heat	77	58	35	Q	28	5,077	4,392	2,746	Q	2,084
Propane	282	197	197	N	N	2,107	1,631	1,627	N	N
Other	38	Q	Q	N	N	343	263	Q	N	N
Water-Heating Energy Sources (more than one may apply)										
Electricity	1,546	1,435	1,402	47	Q	24,171	23,177	22,748	573	447
Natural Gas	1,520	1,374	1,308	81	15	29,196	27,461	26,533	1,358	498
Fuel Oil	110	70	70	Q	Q	2,218	1,890	1,877	Q	Q
District Heat	62	50	38	Q	19	4,182	3,723	2,404	Q	1,729
Propane	130	109	109	N	Q	1,371	1,141	1,129	N	Q
Cooking Energy Sources (more than one may apply)										
Electricity	437	409	387	27	4	13,733	13,247	12,710	352	530
Natural Gas	505	479	464	22	4	16,785	16,268	15,695	615	701
Propane	118	95	95	N	Q	1,754	1,634	1,632	N	Q
Energy End Uses (more than one may apply)										
Buildings with Space Heating	4,016	3,400	3,297	137	49	61,602	56,361	53,459	1,898	2,739
Buildings with Cooling	3,560	3,560	3,450	142	50	58,474	58,474	55,545	1,914	2,750
Buildings with Water Heating	3,239	2,915	2,809	119	37	56,115	52,589	49,968	1,744	2,455
Buildings with Cooking	857	792	766	31	6	24,681	23,730	22,723	705	1,047
Buildings with Manufacturing	151	129	127	Q	Q	3,126	2,861	2,805	Q	Q
Buildings with Electricity Generation	172	149	138	Q	5	11,882	11,538	10,842	243	919

Table B24. Cooling Energy Sources, Number of Buildings and Floorspace, 1999

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings	All Buildings with Cooling	Cooling Energy Sources (more than one may apply)			All Buildings	All Buildings with Cooling	Cooling Energy Sources (more than one may apply)		
			Electricity	Natural Gas	District Chilled Water			Electricity	Natural Gas	District Chilled Water
Percent of Floorspace Cooled										
Not Cooled	1,097	N	N	N	N	8,864	N	N	N	N
1 to 50	1,012	1,012	1,005	20	Q	16,846	16,846	16,536	435	Q
51 to 99	751	751	720	32	8	16,966	16,966	16,117	609	772
100	1,796	1,796	1,725	90	40	24,662	24,662	22,893	870	1,805
Cooling Equipment (more than one may apply)										
Residential-Type Central										
Air Conditioners	676	676	676	Q	Q	8,329	8,329	8,329	Q	Q
Heat Pumps	485	485	485	17	4	9,147	9,147	9,120	187	336
Individual Air Conditioners	799	799	799	18	Q	14,276	14,276	14,276	376	359
District Chilled Water	50	50	24	Q	50	2,750	2,750	1,093	Q	2,750
Central Chillers	130	130	127	2	1	12,909	12,909	12,405	272	386
Packaged Air Conditioning										
Units	1,953	1,953	1,870	111	Q	36,527	36,527	35,387	1,595	721
Swamp Coolers	136	136	135	Q	Q	2,219	2,219	2,175	Q	Q
Other	49	49	48	Q	Q	1,312	1,312	1,244	Q	Q

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.

Table B25. Water-Heating Energy Sources, Number of Buildings, 1999

	Number of Buildings (thousand)						
	All Buildings	All Buildings with Water Heating	Water-Heating Energy Sources Used (more than one may apply)				
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane
All Buildings	4,657	3,239	1,546	1,520	110	62	130
Building Floorspace (Square Feet)							
1,001 to 5,000	2,348	1,456	795	574	Q	Q	Q
5,001 to 10,000	1,110	778	317	429	Q	Q	Q
10,001 to 25,000	708	574	265	274	14	9	31
25,001 to 50,000	257	222	87	127	9	14	Q
50,001 to 100,000	145	127	51	71	5	9	Q
100,001 to 200,000	59	54	21	31	Q	5	Q
200,001 to 500,000	23	21	7	12	2	2	Q
Over 500,000	7	7	4	3	Q	1	N
Principal Building Activity							
Education	327	240	95	132	9	19	Q
Food Sales	174	163	68	82	Q	Q	Q
Food Service	349	349	90	223	Q	Q	Q
Health Care	127	126	67	55	Q	3	Q
Inpatient	11	11	Q	8	1	3	N
Outpatient	116	115	66	47	Q	Q	Q
Lodging	153	149	46	86	Q	17	Q
Mercantile	667	439	263	181	Q	N	Q
Retail (Other Than Mall)	534	323	181	141	Q	N	Q
Enclosed and Strip Malls	133	116	82	40	Q	N	Q
Office	739	615	371	216	26	9	Q
Public Assembly	305	249	110	128	Q	6	Q
Public Order and Safety	72	41	Q	21	Q	Q	Q
Religious Worship	307	252	84	146	Q	Q	Q
Service	478	280	152	110	Q	Q	Q
Warehouse and Storage	603	227	148	84	Q	Q	N
Other	102	64	30	30	Q	Q	N
Vacant	253	44	Q	27	Q	N	Q
Year Constructed							
1919 or Before	419	277	93	174	12	5	Q
1920 to 1945	499	311	123	163	Q	8	Q
1946 to 1959	763	493	212	239	41	11	Q
1960 to 1969	665	493	213	244	18	11	Q
1970 to 1979	774	592	298	277	Q	7	Q
1980 to 1989	846	623	379	206	Q	11	Q
1990 to 1999	690	450	229	217	Q	Q	Q
Census Region							
Northeast	686	515	214	168	87	15	56
Midwest	1,188	776	307	452	Q	14	38
South	1,762	1,179	707	470	Q	16	Q
West	1,021	769	318	431	Q	17	Q
Workers (main shift)							
Fewer than 5	2,376	1,312	637	616	Q	15	46
5 to 9	807	643	286	308	Q	Q	Q
10 to 19	683	586	318	243	Q	9	Q
20 to 49	487	417	184	204	22	10	Q
50 to 99	174	159	75	79	6	9	Q
100 to 249	90	85	29	52	4	6	Q
250 or More	39	36	16	18	1	5	Q

Table B25. Water-Heating Energy Sources, Number of Buildings, 1999

	Number of Buildings (thousand)						
	All Buildings	All Buildings with Water Heating	Water-Heating Energy Sources Used (more than one may apply)				
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane
Weekly Operating Hours							
39 or Fewer	978	427	195	192	Q	Q	Q
40 to 48	1,156	779	442	312	16	16	Q
49 to 60	986	746	415	309	22	7	25
61 to 84	664	521	210	292	15	8	Q
85 to 167	474	436	181	233	Q	9	Q
Open Continuously	398	330	103	182	19	23	18
Energy Sources (more than one may apply)							
Electricity	4,395	3,239	1,546	1,520	110	62	130
Natural Gas	2,670	2,191	748	1,520	9	17	Q
Fuel Oil	434	288	109	65	110	4	Q
District Heat	117	101	37	22	Q	62	Q
District Chilled Water	50	37	Q	15	Q	19	Q
Propane	451	334	165	21	44	Q	130
Other	153	89	54	33	Q	Q	Q
Primary Space Heating Energy Source							
Electricity	1,128	867	687	185	Q	Q	12
Natural Gas	2,189	1,759	583	1,232	Q	Q	N
Fuel Oil	302	205	74	Q	99	Q	Q
District Heat	77	70	15	20	Q	45	N
Propane	282	174	98	N	Q	N	76
Other	38	Q	Q	Q	Q	N	Q
Cooking Energy Sources (more than one may apply)							
Electricity	437	410	199	190	18	8	41
Natural Gas	505	497	111	412	6	4	Q
Propane	118	105	38	Q	17	Q	55
Energy End Uses (more than one may apply)							
Buildings with Space Heating	4,016	3,087	1,465	1,459	109	61	116
Buildings with Cooling	3,560	2,915	1,435	1,375	70	50	109
Buildings with Water Heating	3,239	3,239	1,546	1,520	110	62	130
Buildings with Cooking	857	818	283	481	35	11	74
Buildings with Manufacturing	151	89	55	36	Q	Q	Q
Buildings with Electricity Generation	172	143	63	68	Q	12	Q
Water Heating Equipment							
Centralized System	2,472	2,472	1,048	1,244	88	52	104
Distributed System	566	566	399	173	Q	5	Q
Combination of Centralized and Distributed System	200	200	99	103	Q	5	Q

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.

Table B26. Water-Heating Energy Sources, Floorspace, 1999

	Total Floorspace (million square feet)						
	All Buildings	All Buildings with Water Heating	Water-Heating Energy Sources Used (more than one may apply)				
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane
All Buildings	67,338	56,115	24,171	29,196	2,218	4,182	1,371
Building Floorspace (Square Feet)							
1,001 to 5,000	6,774	4,280	2,307	1,719	Q	Q	Q
5,001 to 10,000	8,238	5,748	2,287	3,204	Q	Q	Q
10,001 to 25,000	11,153	9,000	4,220	4,221	224	164	493
25,001 to 50,000	9,311	8,088	3,175	4,602	304	471	Q
50,001 to 100,000	10,112	8,887	3,590	4,924	351	613	Q
100,001 to 200,000	8,271	7,527	2,970	4,344	Q	732	Q
200,001 to 500,000	6,851	6,258	2,073	3,446	437	758	Q
Over 500,000	6,628	6,327	3,551	2,736	Q	1,295	N
Principal Building Activity							
Education	8,651	8,059	1,996	4,938	831	882	Q
Food Sales	994	951	284	592	Q	Q	Q
Food Service	1,851	1,846	509	1,277	Q	Q	Q
Health Care	2,918	2,903	619	1,649	219	713	Q
Inpatient	1,865	1,862	Q	1,165	206	628	N
Outpatient	1,053	1,040	478	484	Q	Q	Q
Lodging	4,521	4,442	745	3,152	Q	536	251
Mercantile	10,398	8,698	5,959	3,811	Q	N	Q
Retail (Other Than Mall)	4,766	3,453	1,937	1,519	Q	N	Q
Enclosed and Strip Malls	5,631	5,244	4,022	2,293	Q	N	Q
Office	12,044	10,872	5,771	4,460	284	953	Q
Public Assembly	4,393	3,893	1,295	2,061	Q	597	Q
Public Order and Safety	1,168	830	Q	454	Q	Q	Q
Religious Worship	3,405	3,109	1,109	1,812	Q	Q	Q
Service	3,388	2,351	1,353	978	Q	Q	Q
Warehouse and Storage	10,477	6,743	3,950	3,145	Q	Q	N
Other	1,222	983	269	569	Q	Q	N
Vacant	1,908	436	Q	298	Q	N	Q
Year Constructed							
1919 or Before	4,034	3,130	1,034	1,848	187	256	Q
1920 to 1945	6,445	4,644	1,551	2,516	Q	627	Q
1946 to 1959	9,127	7,154	2,235	4,047	578	813	Q
1960 to 1969	10,866	9,421	3,438	5,390	424	1,029	Q
1970 to 1979	11,840	10,182	4,981	4,701	322	574	Q
1980 to 1989	13,931	12,137	6,533	5,483	303	507	Q
1990 to 1999	11,094	9,446	4,399	5,211	Q	377	Q
Census Region							
Northeast	12,360	10,577	4,485	4,074	1,678	1,300	561
Midwest	16,761	13,702	4,633	8,323	Q	1,219	428
South	23,485	19,014	10,480	8,943	328	863	Q
West	14,731	12,822	4,574	7,856	Q	799	Q
Workers (main shift)							
Fewer than 5	14,321	8,401	3,332	4,426	Q	288	438
5 to 9	6,325	5,145	2,094	2,666	Q	Q	Q
10 to 19	8,028	7,000	3,354	3,435	Q	305	Q
20 to 49	10,814	9,445	3,905	5,161	365	370	Q
50 to 99	8,898	8,166	3,558	4,525	375	439	Q
100 to 249	8,356	7,760	3,056	4,239	422	803	Q
250 or More	10,595	10,199	4,874	4,743	546	1,810	Q

Table B26. Water-Heating Energy Sources, Floorspace, 1999

	Total Floorspace (million square feet)						
	All Buildings	All Buildings with Water Heating	Water-Heating Energy Sources Used (more than one may apply)				
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane
Weekly Operating Hours							
39 or Fewer	6,596	3,340	1,148	1,851	Q	Q	Q
40 to 48	13,105	10,049	4,793	4,885	338	395	Q
49 to 60	14,200	12,280	6,003	5,728	369	523	282
61 to 84	12,458	11,334	5,919	5,481	403	685	Q
85 to 167	9,116	8,041	3,310	4,343	Q	690	Q
Open Continuously	11,863	11,070	2,998	6,907	504	1,876	268
Energy Sources (more than one may apply)							
Electricity	65,716	56,115	24,171	29,196	2,218	4,182	1,371
Natural Gas	45,525	41,366	13,914	29,196	959	1,829	Q
Fuel Oil	13,285	11,852	5,017	5,148	2,218	1,343	Q
District Heat	5,891	5,301	1,090	675	Q	4,182	Q
District Chilled Water	2,750	2,455	447	498	Q	1,729	Q
Propane	6,290	5,409	2,806	1,173	906	Q	1,371
Other	2,322	1,887	978	1,116	Q	Q	Q
Primary Space Heating Energy Source							
Electricity	17,627	15,562	11,461	4,830	Q	Q	288
Natural Gas	32,729	29,379	8,940	22,589	451	Q	N
Fuel Oil	3,719	3,085	1,021	437	1,639	Q	Q
District Heat	5,077	4,519	690	517	Q	3,776	N
Propane	2,107	1,454	824	N	Q	N	642
Other	343	Q	Q	Q	Q	N	Q
Cooking Energy Sources (more than one may apply)							
Electricity	13,733	13,136	6,559	6,875	811	979	554
Natural Gas	16,785	16,431	5,166	11,979	654	1,235	Q
Propane	1,754	1,635	857	Q	436	Q	373
Energy End Uses (more than one may apply)							
Buildings with Space Heating	61,602	54,204	23,070	28,479	2,206	4,162	1,227
Buildings with Cooling	58,474	52,589	23,177	27,461	1,890	3,723	1,141
Buildings with Water Heating	56,115	56,115	24,171	29,196	2,218	4,182	1,371
Buildings with Cooking	24,681	23,830	9,556	14,020	1,423	1,791	778
Buildings with Manufacturing	3,126	2,364	1,016	1,443	Q	Q	Q
Buildings with Electricity Generation	11,882	11,079	5,163	5,737	710	1,575	Q
Water Heating Equipment							
Centralized System	35,579	35,579	12,585	19,755	1,534	2,715	1,020
Distributed System	10,899	10,899	7,068	4,032	Q	566	Q
Combination of Centralized and Distributed System	9,637	9,637	4,519	5,409	498	901	Q

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.

Table B27. Cooking Energy Sources, Number of Buildings and Floorspace, 1999

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings	All Buildings with Cooking	Cooking Energy Sources (more than one may apply)			All Buildings	All Buildings with Cooking	Cooking Energy Sources (more than one may apply)		
			Electricity	Natural Gas	Propane			Electricity	Natural Gas	Propane
All Buildings	4,657	857	437	505	118	67,338	24,681	13,733	16,785	1,754
Building Floorspace (Square Feet)										
1,001 to 5,000	2,348	357	189	189	70	6,774	1,095	574	602	205
5,001 to 10,000	1,110	176	76	121	Q	8,238	1,272	574	877	Q
10,001 to 25,000	708	150	76	80	Q	11,153	2,415	1,249	1,272	Q
25,001 to 50,000	257	72	39	46	5	9,311	2,630	1,432	1,637	184
50,001 to 100,000	145	54	30	35	4	10,112	3,901	2,157	2,503	336
100,001 to 200,000	59	29	16	19	2	8,271	4,092	2,260	2,705	348
200,001 to 500,000	23	14	8	11	Q	6,851	4,254	2,456	3,418	Q
Over 500,000	7	5	3	4	Q	6,628	5,020	3,031	3,770	Q
Principal Building Activity										
Education	327	106	49	70	6	8,651	5,670	2,913	3,986	444
Food Sales	174	85	69	27	Q	994	676	406	373	Q
Food Service	349	316	142	220	71	1,851	1,761	858	1,348	273
Health Care	127	11	5	8	Q	2,918	1,812	1,078	1,461	Q
Inpatient	11	9	4	8	Q	1,865	1,738	1,016	1,443	Q
Outpatient	116	Q	Q	Q	N	1,053	Q	Q	Q	N
Lodging	153	41	17	23	Q	4,521	2,401	920	2,020	Q
Mercantile	667	96	58	58	6	10,398	5,218	3,059	3,481	388
Retail (Other Than Mall)	534	29	21	Q	Q	4,766	811	630	333	Q
Enclosed and Strip Malls	133	68	37	44	6	5,631	4,407	2,428	3,149	384
Office	739	19	12	10	Q	12,044	3,149	2,119	1,794	Q
Public Assembly	305	101	50	44	Q	4,393	2,027	1,204	1,183	Q
Public Order and Safety	72	12	Q	Q	Q	1,168	301	Q	Q	Q
Religious Worship	307	51	19	36	Q	3,405	842	428	569	Q
Service	478	Q	Q	Q	N	3,388	Q	Q	Q	N
Warehouse and Storage	603	Q	Q	Q	N	10,477	Q	Q	Q	N
Other	102	Q	Q	Q	Q	1,222	Q	Q	Q	Q
Vacant	253	Q	Q	Q	N	1,908	Q	Q	Q	N
Year Constructed										
1919 or Before	419	69	12	50	Q	4,034	1,091	425	766	Q
1920 to 1945	499	85	45	53	Q	6,445	2,232	1,132	1,508	Q
1946 to 1959	763	115	47	84	Q	9,127	3,195	1,467	2,416	Q
1960 to 1969	665	131	69	75	Q	10,866	4,178	2,428	2,786	Q
1970 to 1979	774	161	85	95	23	11,840	4,551	2,726	3,071	395
1980 to 1989	846	173	108	69	45	13,931	5,030	3,097	3,173	502
1990 to 1999	690	124	71	78	5	11,094	4,403	2,458	3,065	330
Census Region										
Northeast	686	141	68	65	36	12,360	5,245	2,680	3,380	523
Midwest	1,188	221	92	153	Q	16,761	6,042	3,335	4,445	Q
South	1,762	315	206	160	35	23,485	8,569	5,166	5,345	789
West	1,021	181	71	127	Q	14,731	4,825	2,551	3,614	Q
Workers (main shift)										
Fewer than 5	2,376	287	146	145	Q	14,321	1,651	830	778	Q
5 to 9	807	131	43	75	Q	6,325	1,341	545	836	Q
10 to 19	683	172	92	113	Q	8,028	2,021	879	1,433	Q
20 to 49	487	154	95	99	20	10,814	3,871	2,169	2,595	341
50 to 99	174	65	33	42	5	8,898	4,354	2,354	2,969	338
100 to 249	90	30	16	19	3	8,356	4,305	2,349	2,970	445
250 or More	39	18	12	12	Q	10,595	7,138	4,608	5,204	Q

Table B27. Cooking Energy Sources, Number of Buildings and Floorspace, 1999

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings	All Buildings with Cooking	Cooking Energy Sources (more than one may apply)			All Buildings	All Buildings with Cooking	Cooking Energy Sources (more than one may apply)		
			Electricity	Natural Gas	Propane			Electricity	Natural Gas	Propane
Weekly Operating Hours										
39 or Fewer	978	93	32	42	Q	6,596	884	440	464	Q
40 to 48	1,156	97	34	57	Q	13,105	2,492	1,142	1,606	Q
49 to 60	986	131	55	80	12	14,200	4,159	2,298	2,646	266
61 to 84	664	188	84	140	19	12,458	6,052	3,464	4,443	284
85 to 167	474	264	182	134	40	9,116	4,659	2,917	2,618	472
Open Continuously	398	85	49	51	6	11,863	6,435	3,472	5,008	384
Energy Sources (more than one may apply)										
Electricity	4,395	857	437	505	118	65,716	24,681	13,733	16,785	1,754
Natural Gas	2,670	615	264	505	3	45,525	19,857	10,015	16,785	292
Fuel Oil	434	92	47	35	25	13,285	7,840	4,612	5,264	756
District Heat	117	28	18	Q	Q	5,891	2,487	1,445	1,563	Q
District Chilled Water	50	6	4	4	Q	2,750	1,047	530	701	Q
Propane	451	158	87	5	118	6,290	3,005	1,838	616	1,754
Other	153	47	24	15	Q	2,322	1,331	968	717	Q
Water Heating Energy Sources (more than one may apply)										
Electricity	1,546	283	199	111	38	24,171	9,556	6,559	5,166	857
Natural Gas	1,520	481	190	412	Q	29,185	14,020	6,875	11,979	Q
Fuel Oil	110	35	18	6	17	2,218	1,423	811	654	436
District Heat	62	11	8	4	Q	4,182	1,791	979	1,235	Q
Propane	130	74	41	Q	55	1,371	778	554	Q	373
Energy End Uses (more than one may apply)										
Buildings with Space Heating	4,016	798	397	475	111	61,602	23,813	13,184	16,256	1,683
Buildings with Cooling	3,560	792	409	479	95	58,474	23,730	13,247	16,268	1,634
Buildings with Water Heating	3,239	818	410	497	105	56,115	23,830	13,136	16,431	1,635
Buildings with Cooking	857	857	437	505	118	24,681	24,681	13,733	16,785	1,754
Buildings with Manufacturing	151	Q	Q	Q	Q	3,126	495	Q	Q	Q
Buildings with Electricity Generation	172	63	37	43	5	11,882	7,823	4,881	5,615	444

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.