

Table B37. Water Heating Equipment, Number of Buildings and Floorspace, 1999

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings	All Buildings with Water Heating	Type of Water Heating Equipment			All Buildings	All Buildings with Water Heating	Type of Water Heating Equipment		
			Centralized System	Distributed System	Combination Centralized and Distributed Systems			Centralized System	Distributed System	Combination Centralized and Distributed Systems
All Buildings	4,657	3,239	2,472	566	200	67,338	56,115	35,579	10,899	9,637
Building Floorspace (Square Feet)										
1,001 to 5,000	2,348	1,456	1,175	244	Q	6,774	4,280	3,411	767	Q
5,001 to 10,000	1,110	778	606	141	31	8,238	5,748	4,479	1,014	255
10,001 to 25,000	708	574	416	103	55	11,153	9,000	6,505	1,679	816
25,001 to 50,000	257	222	151	37	34	9,311	8,088	5,464	1,373	1,250
50,001 to 100,000	145	127	79	23	25	10,112	8,887	5,534	1,615	1,739
100,001 to 200,000	59	54	31	12	10	8,271	7,527	4,317	1,703	1,507
200,001 to 500,000	23	21	12	4	5	6,851	6,258	3,365	1,179	1,714
Over 500,000	7	7	3	2	2	6,628	6,327	2,504	1,569	2,255
Principal Building Activity										
Education	327	240	141	55	45	8,651	8,059	5,049	1,088	1,922
Food Sales	174	163	139	Q	Q	994	951	635	Q	Q
Food Service	349	349	305	Q	Q	1,851	1,846	1,548	Q	Q
Health Care	127	126	103	Q	6	2,918	2,903	1,755	363	785
Inpatient	11	11	8	Q	3	1,865	1,862	961	Q	690
Outpatient	116	115	95	Q	Q	1,053	1,040	794	Q	Q
Lodging	153	149	124	Q	9	4,521	4,442	3,589	Q	552
Mercantile	667	439	326	98	15	10,398	8,698	4,306	3,088	1,303
Retail (Other Than Mall)	534	323	260	60	Q	4,766	3,453	2,479	881	Q
Enclosed and Strip Malls	133	116	66	38	12	5,631	5,244	1,828	2,207	1,209
Office	739	615	426	156	33	12,044	10,872	6,184	2,186	2,502
Public Assembly	305	249	191	45	13	4,393	3,893	2,722	655	516
Public Order and Safety	72	41	35	Q	Q	1,168	830	605	Q	Q
Religious Worship	307	252	222	16	14	3,405	3,109	2,495	266	347
Service	478	280	226	51	Q	3,388	2,351	1,742	429	Q
Warehouse and Storage	603	227	140	79	8	10,477	6,743	3,914	2,070	759
Other	102	64	53	Q	3	1,222	983	674	Q	171
Vacant	253	44	43	Q	Q	1,908	436	361	Q	Q
Year Constructed										
1919 or Before	419	277	254	12	11	4,034	3,130	2,524	242	364
1920 to 1945	499	311	238	52	21	6,445	4,644	2,935	819	889
1946 to 1959	763	493	385	83	25	9,127	7,154	4,824	1,208	1,122
1960 to 1969	665	493	383	76	33	10,866	9,421	6,525	1,540	1,356
1970 to 1979	774	592	450	118	24	11,840	10,182	6,384	2,040	1,757
1980 to 1989	846	623	440	130	54	13,931	12,137	6,822	2,924	2,390
1990 to 1999	690	450	323	95	33	11,094	9,446	5,564	2,125	1,758
Census Region										
Northeast	686	515	411	78	26	12,360	10,577	6,941	1,823	1,813
Midwest	1,188	776	609	117	50	16,761	13,702	9,037	2,328	2,336
South	1,762	1,179	874	218	87	23,485	19,014	11,500	4,120	3,395
West	1,021	769	578	153	38	14,731	12,822	8,102	2,628	2,093
Workers (main shift)										
Fewer than 5	2,376	1,312	1,124	149	39	14,321	8,401	7,108	866	427
5 to 9	807	643	475	146	22	6,325	5,145	3,739	1,105	301
10 to 19	683	586	413	143	30	8,028	7,000	5,204	1,403	393
20 to 49	487	417	295	68	54	10,814	9,445	6,000	1,921	1,524
50 to 99	174	159	88	40	31	8,898	8,166	4,468	1,935	1,763
100 to 249	90	85	57	14	14	8,356	7,760	4,140	1,685	1,935
250 or More	39	36	20	6	10	10,595	10,199	4,920	1,984	3,294

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			Centralized System	Distributed System	Combination Centralized and Distributed Systems			Centralized System	Distributed System	Combination Centralized and Distributed Systems
Weekly Operating Hours										
39 or Fewer	978	427	362	47	18	6,596	3,340	2,748	336	255
40 to 48	1,156	779	577	175	27	13,105	10,049	7,001	1,931	1,117
49 to 60	986	746	553	149	44	14,200	12,280	7,321	3,039	1,921
61 to 84	664	521	386	102	34	12,458	11,334	6,440	2,493	2,401
85 to 167	474	436	336	55	45	9,116	8,041	4,985	1,535	1,521
Open Continuously	398	330	259	38	33	11,863	11,070	7,084	1,564	2,422
Multibuilding Facility Activity										
Not Part of a Multibuilding										
Facility	3,295	2,361	1,909	335	117	41,289	34,705	22,835	6,269	5,601
College or University	70	65	44	16	5	2,605	2,326	1,700	253	373
Primary or Secondary School	224	122	73	22	28	3,388	2,862	1,705	429	728
Office Complex	134	106	47	51	7	3,353	3,035	1,304	948	783
Retail Complex	181	141	81	57	3	3,555	3,108	1,491	1,310	307
Religious Campus or Complex	186	128	96	Q	Q	1,907	1,656	1,286	Q	Q
Health Care Complex	72	52	35	Q	Q	2,339	2,185	1,171	Q	709
Government Complex	61	42	27	Q	Q	1,513	1,177	783	Q	Q
Other	434	222	161	43	17	7,389	5,061	3,305	1,080	676
Energy Sources (more than one may apply)										
Electricity	4,395	3,239	2,472	566	200	65,716	56,115	35,579	10,899	9,637
Natural Gas	2,670	2,191	1,706	342	143	45,525	41,366	26,479	7,585	7,302
Fuel Oil	434	288	228	37	23	13,285	11,852	6,533	1,870	3,448
District Heat	117	101	84	7	11	5,891	5,301	3,464	695	1,142
District Chilled Water	50	37	29	3	6	2,750	2,455	1,556	254	644
Propane	451	334	247	50	36	6,290	5,409	3,504	958	947
Other	153	89	71	14	5	2,322	1,887	1,184	352	351
Water-Heating Energy Sources (more than one may apply)										
Electricity	1,546	1,546	1,048	399	99	24,171	24,171	12,585	7,068	4,519
Natural Gas	1,520	1,520	1,244	173	103	29,196	29,196	19,755	4,032	5,409
Fuel Oil	110	110	88	Q	Q	2,218	2,218	1,534	Q	498
District Heat	62	62	52	5	5	4,182	4,182	2,715	566	901
Propane	130	130	104	Q	Q	1,371	1,371	1,020	Q	Q
Energy End Uses (more than one may apply)										
Buildings with Space Heating	4,016	3,087	2,344	548	195	61,602	54,204	34,201	10,502	9,500
Buildings with Cooling	3,560	2,915	2,195	525	194	58,474	52,589	32,972	10,261	9,356
Buildings with Water Heating	3,239	3,239	2,472	566	200	56,115	56,115	35,579	10,899	9,637
Buildings with Cooking	857	818	608	98	112	24,681	23,830	13,553	4,346	5,932
Buildings with Manufacturing	151	89	64	20	5	3,126	2,364	1,385	601	378
Buildings with Electricity Generation	172	143	103	Q	18	11,882	11,079	5,974	1,828	3,277
Energy-Related Space Functions (more than one may apply)										
Commercial Food Preparation	767	733	542	91	99	23,328	22,563	12,730	4,141	5,692
Activities with Large Amounts of Hot Water	698	698	522	81	94	21,793	21,793	13,070	3,452	5,271

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

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.