

Table A1. Summary Table of Square Feet, Hours of Operation and Age of Building, 1992

Building Characteristics	All Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Mean Square Feet per Building (thousand)	Median Square Feet per Building (thousand)	Mean Square Feet per Worker	Median Square Feet per Worker	Mean Hours per Week	Median Hours per Week	Median Age of Buildings (years)	RSE Row Factor
	1.1	1.2	1.5	1.0	--	1.3	--	0.4	--	--	
All Buildings	4,806	67,876	71,236	14.1	4.5	953	1,013	58	50	28.5	4.0
Building Floorspace (square feet)											
1,001 to 5,000	2,681	7,327	9,701	2.7	2.5	755	850	56	48	28.5	3.3
5,001 to 10,000	975	7,199	7,644	7.4	7.2	942	1,267	57	49	30.5	2.8
10,001 to 25,000	647	10,375	10,357	16.0	15.0	1,002	1,525	60	50	27.5	3.6
25,001 to 50,000	280	10,069	8,674	35.9	35.0	1,161	1,714	67	55	28.5	4.6
50,001 to 100,000	116	8,062	7,830	69.8	68.0	1,030	1,379	73	60	24.5	5.0
100,001 to 200,000	71	9,678	8,282	137.0	130.0	1,169	1,767	77	61	28.5	6.4
200,001 to 500,000	26	7,889	7,545	302.8	270.0	1,046	2,071	94	80	22.5	6.6
Over 500,000	9	7,278	11,203	770.5	600.0	Q	4,133	105	84	18.5	20.4
Principal Building Activity											
Education	301	8,470	6,872	28.2	9.0	1,232	960	49	45	28.5	5.2
Food Sales	130	757	842	5.8	2.6	899	1,000	108	105	23.5	10.7
Food Service	260	1,491	2,244	5.7	3.3	665	613	91	95	31.5	7.2
Health Care	63	1,763	3,385	27.9	4.3	521	500	69	50	26.5	10.0
Lodging	154	2,891	2,022	18.8	8.0	1,429	1,700	158	168	25.5	8.6
Mercantile and Service	1,272	12,402	15,979	9.7	4.0	776	1,077	62	54	28.5	9.0
Office	749	12,319	27,161	16.4	5.0	454	500	53	45	26.5	4.7
Parking Garage	24	1,652	215	69.9	6.0	7,668	3,000	83	52	21.5	25.6
Public Assembly	278	4,556	2,752	16.4	5.9	1,655	1,875	50	45	28.5	13.3
Public Order and Safety	60	820	801	13.7	5.0	1,023	1,050	123	168	23.5	17.6
Religious Worship	366	3,747	2,298	10.2	4.3	1,630	2,033	22	10	36.5	12.0
Warehouse and Storage	761	11,484	4,451	15.1	5.0	2,580	1,925	50	48	22.5	7.5
Other	69	1,130	1,232	16.4	4.0	918	1,273	75	56	23.5	16.3
Vacant	319	4,396	981	13.8	4.2	4,481	2,000	20	(*)	42.5	14.5
Year Constructed											
1899 or Before	169	1,721	1,531	10.2	5.5	1,124	1,350	50	45	104.5	10.6
1900 to 1919	255	3,608	3,004	14.1	5.0	1,201	1,325	51	45	83.5	10.6
1920 to 1945	724	8,712	6,597	12.0	4.2	1,321	1,200	52	48	60.5	7.5
1946 to 1959	880	10,421	9,114	11.8	4.2	1,143	1,000	54	48	40.5	6.1
1960 to 1969	783	12,612	17,873	16.1	4.5	706	1,000	64	51	28.5	8.7
1970 to 1979	982	14,014	14,400	14.3	4.5	973	1,000	60	50	17.5	5.1
1980 to 1989	884	14,287	15,987	16.2	4.8	894	943	64	52	7.5	6.5
1990 to 1992	128	2,502	2,731	19.6	4.8	916	1,138	62	52	1.5	10.6
Census Region											
Northeast	771	13,400	18,570	17.4	5.2	722	1,050	62	52	35.5	10.5
Midwest	1,202	17,280	14,872	14.4	4.5	1,162	1,225	54	49	32.5	5.5
South	1,963	24,577	23,220	12.5	4.0	1,058	1,013	56	48	24.5	5.4
West	870	12,619	14,574	14.5	5.0	866	800	65	52	25.5	6.6
Energy Sources (more than one may apply)											
Electricity	4,616	66,549	71,187	14.4	4.6	935	1,000	60	50	27.5	3.9
Natural Gas	2,665	45,097	51,322	16.9	5.1	879	1,000	63	51	31.5	4.7
Fuel Oil	559	13,218	18,068	23.7	5.0	732	1,200	58	50	35.5	6.5
District Heat	95	5,339	7,153	56.0	17.0	746	1,125	76	50	33.5	9.9
District Chilled Water	28	2,066	2,709	72.6	26.5	763	1,125	77	55	27.5	15.2
Propane	337	3,393	2,884	10.1	3.5	1,177	1,183	58	51	24.5	10.1
Any Other	163	1,551	1,320	9.5	3.6	1,175	1,600	59	48	30.5	13.9

See footnotes at end of table.

Table A1. Summary Table of Square Feet, Hours of Operation and Age of Building, 1992 (Continued)

Building Characteristics	All Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Mean Square Feet per Building (thousand)	Median Square Feet per Building (thousand)	Mean Square Feet per Worker	Median Square Feet per Worker	Mean Hours per Week	Median Hours per Week	Median Age of Buildings (years)	RSE Row Factor
RSE Column Factor:	1.1	1.2	1.5	1.0	--	1.3	--	0.4	--	--	
Energy End Uses (more than one may apply)											
Heated Buildings	4,178	61,996	69,607	14.8	4.8	891	1,000	61	50	28.5	4.0
Air-Conditioned Buildings	3,502	57,041	66,909	16.3	5.0	853	950	63	51	27.5	4.2
Buildings with Water Heating	3,502	58,479	67,233	16.7	5.2	870	960	65	52	28.5	4.2
Buildings with Cooking	734	23,065	30,935	31.4	6.3	746	889	79	76	29.5	7.8
Buildings with Manufacturing	121	3,174	2,538	26.3	9.6	1,250	1,050	59	49	27.5	10.6
Climate Zone: 45-Year Average											
Fewer than 2,000 CDD and --											
More than 7,000 HDD	399	5,623	4,818	14.1	5.0	1,167	1,184	63	52	30.5	10.3
5,500-7,000 HDD	1,134	18,024	17,497	15.9	5.0	1,030	1,150	58	50	35.5	6.8
4,000-5,499 HDD	1,077	16,162	20,520	15.0	4.0	788	1,167	56	50	28.5	13.4
Fewer than 4,000 HDD	1,101	15,251	16,627	13.8	4.5	917	891	59	49	24.5	8.5
More than 2,000 CDD and --											
Fewer than 4,000 HDD	1,095	12,816	11,774	11.7	4.2	1,089	1,000	58	48	25.5	8.5
Predominant Exterior Wall Material											
Masonry	3,115	48,585	45,457	15.6	5.0	1,069	1,000	61	50	32.5	3.5
Siding or Shingles	764	3,873	4,305	5.1	2.9	900	1,000	54	48	32.5	5.8
Metal Panels	745	7,392	4,788	9.9	4.0	1,544	1,383	51	48	15.5	7.5
Concrete Panels	87	4,961	10,320	56.7	20.0	481	1,025	73	60	16.5	15.4
Window Glass	46	2,028	4,302	43.6	9.0	471	600	61	56	22.5	14.3
Other	47	1,037	2,064	22.1	4.8	502	750	52	50	20.5	16.1
Predominant Roof Material											
Built-Up	1,642	30,257	31,481	18.4	5.8	961	1,000	64	52	32.5	4.5
Shingles (Not Wood)	1,381	10,570	9,630	7.7	3.5	1,098	1,000	54	46	30.5	5.4
Metal Surfacing	1,037	9,019	6,541	8.7	4.0	1,379	1,250	51	49	16.5	5.9
Synthetic or Rubber	386	11,702	18,127	30.3	8.1	646	1,010	65	56	32.5	9.7
Slate or Tile	155	1,998	1,627	12.9	5.5	1,228	1,000	57	45	40.5	10.3
Concrete	37	2,544	1,676	68.4	12.5	1,518	1,130	77	60	20.5	21.2
Other	167	1,786	2,154	10.7	3.7	829	900	64	56	26.5	11.0
Floors											
One	3,007	25,424	21,565	8.5	3.5	1,179	1,000	57	50	23.5	4.6
Two	1,154	18,025	19,949	15.6	6.0	904	1,080	56	48	33.5	7.7
Three	446	9,877	9,592	22.2	8.6	1,030	1,222	65	52	59.5	5.8
Four to Nine	186	10,377	11,258	55.7	25.0	922	1,143	74	55	66.5	7.7
Ten or More	13	4,173	8,872	319.7	186.0	470	600	81	61	23.5	12.1
Percent Window Glass											
25 or Less	4,193	51,356	42,768	12.2	4.2	1,201	1,100	57	49	28.5	3.4
26 to 50	490	11,815	19,249	24.1	7.0	614	800	67	54	28.5	8.5
51 to 75	94	3,206	5,995	34.2	5.8	535	683	71	55	24.5	9.7
76 to 100	29	1,499	3,225	52.6	16.0	465	833	68	50	21.5	14.7
Building Shape											
Square	280	3,654	3,673	13.0	3.8	995	857	61	49	28.5	8.1
Rectangle	3,659	39,233	38,955	10.7	4.0	1,007	1,000	57	50	27.5	3.2
Rectangle or Square with Courtyard	48	1,372	1,539	28.8	10.0	892	1,167	65	58	24.5	14.8
Right Angle	333	6,071	5,723	18.2	6.8	1,061	1,167	61	50	32.5	7.7
Other	485	17,547	21,346	36.2	10.0	822	1,225	63	50	30.5	10.0

See footnotes at end of table.

Table A1. Summary Table of Square Feet, Hours of Operation and Age of Building, 1992 (Continued)

Building Characteristics	All Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Mean Square Feet per Building (thousand)	Median Square Feet per Building (thousand)	Mean Square Feet per Worker	Median Square Feet per Worker	Mean Hours per Week	Median Hours per Week	Median Age of Buildings (years)	RSE Row Factor
	1.1	1.2	1.5	1.0	--	1.3	--	0.4	--	--	
Workers (main shift)											
Less than 5	2,718	17,944	4,736	6.6	3.0	3,789	1,700	54	50	30.5	5.8
5 to 9	895	7,524	5,758	8.4	4.8	1,307	720	61	51	25.5	4.5
10 to 19	561	8,077	7,148	14.4	8.0	1,130	641	63	50	25.5	5.6
20 to 49	405	10,556	11,777	26.1	16.3	896	567	69	53	26.5	4.7
50 to 99	130	7,763	8,375	59.7	38.5	927	650	67	50	23.5	7.0
100 to 249	64	7,378	9,318	114.6	79.0	792	617	82	65	18.5	6.9
250 or More	31	8,633	24,124	274.4	150.0	358	320	84	65	22.5	9.5
Weekly Operating Hours											
39 or Fewer	1,039	8,246	3,997	7.9	3.5	2,063	1,600	12	9	33.5	7.1
40 to 48	1,278	14,998	17,500	11.7	4.9	857	857	44	45	28.5	3.1
49 to 60	1,004	14,046	15,478	14.0	5.0	907	1,063	54	54	27.5	3.2
61 to 84	645	12,062	12,667	18.7	5.0	952	979	72	70	23.5	4.1
85 to 167	478	8,467	12,470	17.7	4.0	Q	1,000	105	102	27.5	7.5
Open Continuously	362	10,057	9,124	27.8	5.0	1,102	1,200	168	168	23.5	0.1
Ownership and Occupancy											
Nongovernment Owned	4,206	52,752	52,310	12.5	4.3	1,008	1,025	58	50	28.5	3.2
Owner Occupied	3,192	38,403	39,329	12.0	4.2	976	1,050	60	50	27.5	3.2
Nonowner Occupied	817	12,273	12,810	15.0	4.8	958	978	61	52	26.5	6.5
Unoccupied	197	2,077	171	10.5	3.8	12,161	1,300	9	(*)	36.5	18.8
Government Owned	599	15,124	18,926	25.2	6.7	799	1,000	61	45	28.5	9.4
Energy-Related Space Functions (more than one may apply)											
Commercial Food Preparation	735	22,166	30,938	30.2	6.3	716	880	79	76	29.5	7.5
Computer Room	223	14,199	22,847	63.7	24.5	621	833	69	53	25.5	6.3
Rooms with Special Ventilation	236	8,042	9,190	34.0	8.4	875	1,000	73	56	23.5	6.4
Activities with Large Amounts of Hot Water	203	6,862	7,084	33.7	10.0	969	1,069	103	95	24.5	7.6
Space-Heating Energy Source (more than one may apply)											
Electricity	1,513	25,636	31,533	16.9	5.0	813	923	66	51	21.5	7.6
Natural Gas	2,405	38,524	42,893	16.0	5.0	898	1,000	60	50	32.5	5.1
Fuel Oil	479	7,334	8,226	15.3	4.8	892	1,208	53	49	37.5	8.0
District Heat	94	5,242	7,044	55.9	16.5	744	1,150	76	50	33.5	10.0
Propane	255	1,568	1,282	6.2	3.1	1,222	1,200	48	48	23.5	11.4
Wood	102	504	461	5.0	3.2	1,093	1,600	55	48	32.5	16.3
Any Other	39	661	368	16.9	3.6	1,796	2,000	51	48	20.5	25.6
Primary Space-Heating Energy Source											
Electricity	1,107	15,502	17,408	14.0	4.8	891	875	69	53	18.5	6.8
Natural Gas	2,276	35,161	39,268	15.5	5.0	895	1,000	60	50	32.5	5.4
Fuel Oil	394	4,415	4,960	11.2	4.5	890	1,200	50	48	38.5	9.8
District Heat	91	5,014	6,665	54.8	16.3	752	1,150	76	50	33.5	10.3
Propane	217	1,101	798	5.1	2.9	1,380	1,333	47	45	24.5	12.5
Wood	68	257	242	3.8	2.8	Q	1,425	46	48	32.5	17.2
Any Other	Q	546	267	Q	3.6	2,048	2,000	50	48	30.5	28.0

See footnotes at end of table.

Table A1. Summary Table of Square Feet, Hours of Operation and Age of Building, 1992 (Continued)

Building Characteristics	All Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Mean Square Feet per Building (thousand)	Median Square Feet per Building (thousand)	Mean Square Feet per Worker	Median Square Feet per Worker	Mean Hours per Week	Median Hours per Week	Median Age of Buildings (years)	RSE Row Factor
Cooling Energy Sources (more than one may apply)											
Electricity	3,404	54,628	63,748	16.0	5.0	857	950	63	50	27.5	4.2
Natural Gas	106	1,906	2,430	17.9	6.0	784	800	65	56	27.5	10.5
District Chilled Water	28	2,066	2,709	72.6	26.5	763	1,125	77	55	27.5	15.2
Water-Heating Energy Sources (more than one may apply)											
Electricity	1,696	25,482	27,489	15.0	5.0	927	950	61	50	23.5	5.1
Natural Gas	1,647	29,962	34,853	18.2	5.6	860	963	67	54	32.5	6.0
Fuel Oil	126	2,470	3,032	19.7	6.4	815	1,125	60	54	45.5	12.8
District Heat	38	3,308	4,934	87.1	35.0	670	1,100	91	60	30.5	11.5
Propane	80	659	555	8.2	3.5	1,187	1,000	77	63	29.5	15.9
Cooking Energy Sources (more than one may apply)											
Electricity	356	12,183	18,405	34.2	6.2	662	933	80	77	25.5	11.8
Natural Gas	431	15,233	21,634	35.3	7.8	704	813	83	78	32.5	9.1
Propane	70	1,039	1,072	14.9	5.2	969	843	77	77	38.5	15.2
Percent of Floorspace Heated											
Not Heated	653	6,211	1,691	9.5	3.3	3,673	1,667	42	43	27.5	11.8
1 to 50	688	11,195	9,940	16.3	5.3	Q	1,850	56	49	32.5	9.5
51 to 99	618	10,211	11,922	16.5	5.5	856	1,000	64	54	31.5	5.6
100	2,846	40,260	47,682	14.1	4.5	844	877	61	50	27.5	3.4
Percent of Floorspace Cooled											
Not Cooled	1,304	10,835	4,327	8.3	3.5	2,504	1,538	46	45	31.5	6.6
1 to 50	1,176	21,715	13,207	18.5	6.4	1,644	1,383	60	52	32.5	4.2
51 to 99	658	13,872	23,943	21.1	6.0	579	840	68	54	29.5	7.7
100	1,668	21,454	29,759	12.9	4.0	721	733	63	50	23.5	5.0
Percent Lit when Open											
Not Lit	413	3,280	155	7.9	3.1	21,154	1,750	17	(*)	31.5	13.6
1 to 50	881	9,980	4,218	11.3	4.5	2,366	2,000	59	49	33.5	6.3
51 to 99	813	14,224	14,934	17.5	5.5	952	950	60	50	30.5	5.9
100	2,699	40,393	51,929	15.0	4.5	778	867	64	51	25.5	4.6
Percent Lit when Closed											
Not Lit	2,987	34,486	27,719	11.5	4.0	1,244	1,200	57	46	27.5	4.2
1 to 50	1,689	31,482	41,483	18.6	6.0	759	911	61	54	28.5	4.8
51 to 99	43	1,021	1,200	24.0	5.2	851	675	58	57	40.5	17.0
100	87	887	835	10.2	3.6	1,063	833	47	55	25.5	17.0
Heating Equipment (more than one may apply)											
Heat Pumps	449	8,269	9,484	18.4	6.0	872	900	65	50	15.5	7.0
Furnaces	1,692	16,909	19,794	10.0	4.0	854	1,000	57	49	32.5	7.6
Individual Space Heaters	1,464	22,380	24,549	15.3	4.8	912	1,225	61	50	28.5	7.5
District Heat	93	5,225	7,043	55.9	16.5	742	1,150	76	50	33.5	10.0
Boilers	624	20,664	22,422	33.1	10.0	922	1,160	66	54	37.5	5.4
Packaged Heating Units	870	16,000	22,847	18.4	6.0	700	800	66	54	21.5	8.5
Other	42	903	1,143	21.2	3.4	790	943	83	64	22.5	17.6

See footnotes at end of table.

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RSE Column Factor:	1.0	1.1	1.5	1.1	--	1.3	--	0.5	--	--	
Heating Distribution Equipment (more than one may apply)											
Radiators or Baseboards	473	13,263	13,548	28.0	9.6	979	1,300	65	52	45.5	5.7
Ducts for Heating	2,955	45,422	55,081	15.4	5.0	825	900	61	50	25.5	4.4
Heating Only	577	5,950	Q	10.3	3.7	Q	1,325	52	48	36.5	9.1
Heating and Cooling	2,378	39,472	46,568	16.6	5.4	848	833	63	50	23.5	3.4
Variable Air-Volume System Used	210	11,528	19,351	54.8	13.5	596	707	70	55	18.5	11.9
Fan Coil Units for											
Heating	99	5,474	6,129	55.5	20.0	893	1,267	73	54	35.5	9.0
Heating Only	78	3,569	3,417	45.7	15.5	1,044	1,400	68	53	38.5	11.6
Heating and Cooling	21	1,906	2,712	92.5	48.0	703	1,056	89	65	28.5	12.9
Individual Space Heaters	1,464	22,380	24,549	15.3	4.8	912	1,225	61	50	28.5	7.5
Other	181	3,310	3,213	18.3	4.8	1,030	1,060	67	52	36.5	10.1
Cooling Equipment (more than one may apply)											
Residential-Type Central											
Air Conditioners	816	9,021	9,734	11.0	4.2	927	900	57	49	29.5	5.7
Heat Pumps	454	8,406	9,559	18.5	6.0	879	875	65	50	15.5	6.9
Individual Air											
Conditioners	1,023	17,979	17,997	17.6	5.0	999	1,250	64	52	36.5	9.7
District Chilled Water	28	2,066	2,709	72.6	26.5	763	1,125	77	55	27.5	15.2
Central Chillers	142	12,991	18,483	91.5	39.0	703	863	73	55	27.5	7.6
Packaged Air-Conditioning											
Units	1,459	27,830	32,786	19.1	6.3	849	800	65	54	24.5	4.0
Swamp Coolers	179	2,085	3,033	11.7	4.2	687	975	65	51	30.5	14.8
Other	8	268	254	35.0	29.0	1,054	1,940	57	60	39.5	30.2
Cooling Distribution Equipment (more than one may apply)											
Ducts for Cooling	2,733	47,755	55,881	17.5	5.6	855	850	63	50	24.5	3.3
Cooling Only	355	8,283	9,312	23.3	6.6	889	1,000	63	50	32.5	7.0
Heating and Cooling	2,378	39,472	46,568	16.6	5.4	848	833	63	50	23.5	3.4
Variable Air-Volume System Used	221	12,430	17,840	56.2	15.0	697	670	71	58	18.5	7.5
Fan Coil Units for											
Cooling	56	3,875	4,926	69.5	21.5	787	925	74	57	31.5	11.4
Cooling Only	35	1,969	2,214	56.0	10.5	889	875	66	48	34.5	17.3
Heating and Cooling	21	1,906	2,712	92.5	48.0	703	1,056	89	65	28.5	12.9
Individual Air											
Conditioners	1,023	17,979	17,997	17.6	5.0	999	1,250	64	52	36.5	9.7
Other	111	2,919	3,591	26.2	5.9	813	1,050	71	55	27.5	12.8
Lighting Equipment Types (more than one may apply)											
Incandescent	2,509	39,221	46,381	15.6	4.8	846	1,071	63	50	32.5	4.9
Standard Fluorescent	4,065	62,074	69,543	15.3	5.0	893	1,000	62	50	27.5	3.8
Compact Fluorescent	206	8,336	16,556	40.4	8.5	503	1,000	78	60	24.5	12.5
High-Intensity Discharge	354	17,570	20,068	49.7	14.0	875	1,325	68	53	19.5	8.7
Other	78	1,612	1,949	20.6	6.0	827	750	61	50	16.5	15.0

See footnotes at end of table.

Table A1. Summary Table of Square Feet, Hours of Operation and Age of Building, 1992 (Continued)

Building Characteristics	All Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Mean Square Feet per Building (thousand)	Median Square Feet per Building (thousand)	Mean Square Feet per Worker	Median Square Feet per Worker	Mean Hours per Week	Median Hours per Week	Median Age of Buildings (years)	RSE Row Factor
RSE Column Factor:	1.0	1.1	1.5	1.1	--	1.3	--	0.5	--	--	
Water-Heating Equipment (more than one may apply)											
Centralized System	1,994	31,599	35,671	15.8	5.0	886	990	65	52	29.5	4.8
Self-Heating Tank	1,799	24,464	25,936	13.6	4.8	943	970	63	51	28.5	5.4
Heated by Space-Heating Equipment	103	3,722	4,871	36.2	7.5	764	963	67	52	35.5	12.4
Other	106	4,032	5,658	38.2	8.2	713	1,150	85	69	32.5	11.3
Distributed System	1,557	29,502	34,002	18.9	5.9	868	933	65	52	27.5	7.1
Residential-Type Storage Tank	1,489	25,809	26,162	17.3	5.8	986	933	64	52	27.5	4.9
Point-of-Use Heaters	56	3,367	Q	59.7	9.0	Q	1,043	76	55	15.5	22.0
Other	24	1,259	1,793	52.8	23.0	702	1,100	100	79	25.5	15.0
Personal Computers and/or Computer Terminals											
1 to 4	1,269	13,355	10,478	10.5	5.0	1,275	967	65	52	25.5	4.0
5 to 9	336	5,970	6,120	17.7	7.5	975	610	60	49	20.5	5.5
10 to 19	216	6,236	6,317	28.9	15.0	987	667	63	50	25.5	6.8
20 to 49	164	7,439	8,008	45.4	23.8	929	713	60	49	26.5	7.0
50 to 99	59	4,908	5,944	83.4	57.0	826	750	71	55	22.5	8.5
100 to 249	34	4,220	7,588	125.3	80.0	556	530	72	59	23.5	9.8
250 or More	19	5,569	16,609	293.7	186.0	335	368	83	66	14.5	14.5
Building Shell Conservation Features (more than one may apply)											
Roof or Ceiling Insulation	3,343	50,311	58,933	15.0	4.8	854	1,000	61	50	24.5	4.3
Wall Insulation	2,320	33,240	38,937	14.3	4.6	854	938	61	50	20.5	3.8
Storm or Multiple Glazing	1,680	29,684	34,365	17.7	5.5	864	1,000	62	50	24.5	4.5
Tinted, Reflective or Shading Glass	1,068	25,396	36,671	23.8	6.8	693	840	63	50	22.5	6.9
Exterior or Interior Shading or Awnings	1,853	34,071	43,073	18.4	5.4	791	800	63	50	27.5	4.0
Windows that Open	2,119	28,937	30,613	13.7	4.6	945	1,100	56	48	33.5	6.4
HVAC Conservation Features (more than one may apply)											
Variable Air-Volume System	250	13,970	23,262	56.0	13.5	601	750	69	55	20.5	10.3
Economizer Cycle	414	18,313	29,830	44.2	12.0	614	844	72	57	20.5	8.5
HVAC Maintenance	2,503	49,173	59,978	19.6	6.0	820	933	65	52	25.5	4.6
Lighting Conservation Features (more than one may apply)											
Specular Reflectors	574	15,241	23,021	26.6	8.0	662	950	65	51	25.5	9.5
Natural Lighting Control Sensors	74	3,072	3,439	41.5	7.3	893	1,429	93	84	25.5	10.9
Occupancy Sensors	59	3,629	6,852	61.4	10.8	530	800	73	50	25.5	10.2
Time Clock	339	12,104	19,096	35.7	8.2	634	950	72	56	24.5	12.3
Manual Dimmer Switches	413	12,329	20,507	29.8	8.0	601	1,000	69	57	28.5	9.8
Other	78	2,596	3,599	33.2	12.0	721	1,000	69	54	23.5	11.5

See footnotes at end of table.

Table A1. Summary Table of Square Feet, Hours of Operation and Age of Building, 1992 (Continued)

Building Characteristics	All Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Mean Square Feet per Building (thousand)	Median Square Feet per Building (thousand)	Mean Square Feet per Worker	Median Square Feet per Worker	Mean Hours per Week	Median Hours per Week	Median Age of Buildings (years)	RSE Row Factor
RSE Column Factor:	1.0	1.1	1.5	1.1	--	1.3	--	0.5	--	--	
Off-Hour Equipment Reduction (more than one may apply)											
Heating	3,400	46,248	54,309	13.6	4.8	852	1,000	51	49	28.5	4.0
Cooling	2,872	42,768	51,968	14.9	5.0	823	929	53	49	28.5	4.2
Hot Water	578	9,966	11,822	17.2	5.6	843	1,000	51	48	30.5	5.3
Lighting	4,089	54,944	61,385	13.4	4.7	895	1,000	51	49	28.5	3.7
Other	547	7,996	9,843	14.6	4.8	812	833	58	50	23.5	7.9
Energy Management Practices (more than one may apply)											
Energy Management and Control System	236	14,320	20,784	60.7	18.5	689	848	68	52	21.5	7.1
Demand-Side Management Participation	315	11,310	19,265	35.9	9.0	587	1,000	70	55	26.5	9.6
Energy Audit	521	14,779	18,789	28.3	7.2	787	875	69	54	28.5	5.5
Building Energy Manager	49	2,311	3,547	46.8	8.1	651	983	69	50	28.5	15.8

(*) = Value rounds to zero in the units displayed.

-- = Data not applicable.

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A2. Census Region, Number of Buildings and Floorspace, 1992

Building Characteristics RSE Column Factor:	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Northeast	Midwest	South	West	All Buildings	Northeast	Midwest	South	West	
	0.6	1.2	1.1	1.0	1.3	0.6	1.3	1.1	1.1	1.2	
All Buildings	4,806	771	1,202	1,963	870	67,876	13,400	17,280	24,577	12,619	6.3
Building Floorspace (square feet)											
1,001 to 5,000	2,681	383	676	1,171	451	7,327	1,074	1,889	3,155	1,208	9.7
5,001 to 10,000	975	180	241	370	184	7,199	1,337	1,763	2,723	1,376	7.6
10,001 to 25,000	647	109	163	239	136	10,375	1,663	2,689	3,782	2,241	8.5
25,001 to 50,000	280	54	66	106	56	10,069	1,976	2,353	3,696	2,043	10.3
50,001 to 100,000	116	25	29	41	20	8,062	1,752	2,097	2,842	1,371	11.5
100,001 to 200,000	71	12	15	26	18	9,678	1,598	2,048	3,720	2,311	14.0
200,001 to 500,000	26	5	10	6	5	7,889	1,696	2,839	1,968	1,386	15.2
Over 500,000	9	2	2	4	1	7,278	2,303	1,601	2,691	683	32.0
Principal Building Activity											
Education	301	38	46	112	104	8,470	1,968	2,386	2,620	1,496	12.7
Food Sales	130	Q	29	57	32	757	Q	182	245	209	21.8
Food Service	260	54	73	83	50	1,491	445	432	407	208	14.7
Health Care	63	12	14	15	23	1,763	386	487	597	292	22.1
Lodging	154	31	26	56	41	2,891	616	577	1,043	654	18.7
Mercantile and Service	1,272	246	329	510	187	12,402	2,798	3,156	4,233	2,214	10.6
Office	749	126	170	299	154	12,319	2,525	2,804	4,152	2,838	10.2
Parking Garage	24	5	11	2	5	1,652	Q	Q	Q	272	37.9
Public Assembly	278	40	76	120	43	4,556	777	861	2,269	649	17.9
Public Order and Safety	60	16	Q	24	Q	820	269	Q	238	Q	28.5
Religious Worship	366	30	86	194	56	3,747	452	1,137	1,366	792	18.2
Warehouse and Storage	761	109	233	316	103	11,484	1,763	3,108	4,964	1,649	14.5
Other	69	16	18	21	15	1,130	199	301	383	248	26.6
Vacant	319	36	80	153	50	4,396	708	1,043	1,604	1,041	17.5
Year Constructed											
1899 or Before	169	52	78	26	Q	1,721	676	720	167	Q	20.7
1900 to 1919	255	62	105	66	22	3,608	1,052	1,246	788	522	21.5
1920 to 1945	724	166	193	257	109	8,712	2,655	2,296	2,646	1,115	13.2
1946 to 1959	880	124	208	368	179	10,421	2,070	2,629	3,898	1,825	11.3
1960 to 1969	783	122	174	324	163	12,612	2,485	2,652	4,914	2,562	12.0
1970 to 1979	982	118	248	426	190	14,014	2,123	4,086	4,940	2,865	10.0
1980 to 1989	884	112	158	444	170	14,287	2,053	2,982	6,317	2,934	12.2
1990 to 1992	128	14	38	51	25	2,502	286	670	906	639	21.0
Energy Sources (more than one may apply)											
Electricity	4,616	755	1,139	1,876	845	66,549	13,235	16,914	23,985	12,415	6.2
Natural Gas	2,665	370	847	888	560	45,097	8,559	13,838	13,408	9,292	7.7
Fuel Oil	559	284	79	182	14	13,218	5,535	2,541	3,582	1,559	12.6
District Heat	95	23	24	28	21	5,339	1,560	1,884	983	912	18.2
District Chilled Water	28	2	7	10	9	2,066	302	684	659	421	28.3
Propane	337	71	80	153	Q	3,393	1,041	579	1,514	260	20.3
Any Other	163	33	46	62	23	1,551	444	254	446	407	23.9
Energy End Uses (more than one may apply)											
Heated Buildings	4,178	694	1,047	1,687	750	61,996	12,858	16,303	21,659	11,176	6.4
Air-Conditioned Buildings	3,502	521	784	1,569	627	57,041	11,158	14,383	21,205	10,296	6.6
Buildings with Water Heating	3,502	625	906	1,307	664	58,479	12,410	15,460	19,592	11,017	6.5
Buildings with Cooking	734	142	201	257	134	23,065	5,740	5,800	7,768	3,757	9.5
Buildings with Manufacturing	121	26	38	37	19	3,174	756	895	1,039	484	21.7
Predominant Exterior Wall Material											
Masonry	3,115	503	759	1,261	592	48,585	9,981	12,914	17,174	8,517	7.1
Siding or Shingles	764	176	198	257	133	3,873	1,008	1,017	1,052	796	12.3
Metal Panels	745	68	215	372	90	7,392	930	1,774	3,900	789	15.2
Concrete Panels	87	6	12	36	34	4,961	1,003	741	1,461	1,755	22.3
Window Glass	46	12	Q	18	8	2,028	372	524	709	423	25.3
Other	47	6	9	19	13	1,037	106	310	281	Q	32.5

See footnotes at end of table.

Table A2. Census Region, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics RSE Column Factor:	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Northeast	Midwest	South	West	All Buildings	Northeast	Midwest	South	West	
	0.6	1.2	1.1	1.0	1.3	0.6	1.3	1.1	1.1	1.2	
Predominant Roof Material											
Built-Up	1,642	226	346	665	405	30,257	4,889	6,375	11,653	7,341	8.6
Shingles (Not Wood)	1,381	278	369	532	202	10,570	2,434	3,213	3,168	1,755	9.6
Metal Surfacing	1,037	106	269	537	126	9,019	853	2,064	5,098	1,004	13.2
Synthetic or Rubber	386	100	152	98	35	11,702	3,757	4,318	2,615	1,012	11.1
Slate or Tile	155	40	23	45	47	1,998	526	385	577	511	20.5
Concrete	37	2	5	20	9	2,544	556	Q	917	506	33.8
Other	167	19	38	65	46	1,786	384	361	551	490	22.5
Floors											
One	3,007	329	634	1,456	588	25,424	2,834	5,146	12,892	4,552	10.0
Two	1,154	213	361	387	193	18,025	3,564	5,153	5,660	3,649	8.2
Three	446	153	158	84	51	9,877	2,807	3,042	2,255	1,772	11.7
Four to Nine	186	72	47	33	35	10,377	2,847	2,989	2,714	1,827	15.7
Ten or More	13	4	3	3	4	4,173	1,348	950	1,056	819	25.5
Percent Window Glass											
25 or Less	4,193	646	1,082	1,754	710	51,356	8,988	13,026	20,229	9,113	7.1
26 to 50	490	94	95	169	132	11,815	3,478	2,852	2,872	2,613	10.3
51 to 75	94	25	23	24	21	3,206	701	932	943	630	20.6
76 to 100	29	5	2	15	7	1,499	232	470	534	263	27.9
Workers (main shift)											
Less than 5	2,718	404	721	1,180	412	17,944	2,708	4,747	7,676	2,813	10.3
5 to 9	895	148	218	341	189	7,524	1,328	1,867	3,013	1,316	9.0
10 to 19	561	95	122	222	122	8,077	1,367	1,871	3,266	1,573	12.2
20 to 49	405	77	87	147	94	10,556	2,014	2,521	3,818	2,204	10.1
50 to 99	130	29	31	43	27	7,763	1,899	2,002	2,286	1,577	13.6
100 to 249	64	10	17	20	17	7,378	1,378	2,467	1,984	1,549	15.1
250 or More	31	7	6	9	9	8,633	2,707	1,805	2,535	1,586	15.1
Weekly Operating Hours											
39 or Fewer	1,039	123	314	486	116	8,246	1,400	2,454	3,278	1,114	12.3
40 to 48	1,278	191	294	541	252	14,998	2,272	3,446	6,543	2,738	9.2
49 to 60	1,004	184	231	395	193	14,046	2,622	3,474	5,002	2,948	8.7
61 to 84	645	129	170	220	127	12,062	2,578	3,212	3,795	2,477	10.3
85 to 167	478	83	127	167	101	8,467	2,486	2,217	1,938	1,826	12.9
Open Continuously	362	61	65	154	82	10,057	2,042	2,477	4,021	1,517	14.7
Percent Vacant for at Least Three Months											
1-50 Percent	362	86	87	114	76	12,420	3,021	3,501	3,609	2,289	11.6
51-99 Percent	97	8	24	47	18	2,263	508	441	792	521	25.4
100 Percent	398	44	101	177	76	4,109	752	946	1,377	1,034	15.8
None	3,948	633	990	1,625	700	49,085	9,120	12,392	18,799	8,775	6.9
Ownership and Occupancy											
Nongovernment Owned	4,206	683	1,070	1,729	725	52,752	9,978	13,127	19,480	10,167	6.3
Owner Occupied	3,192	552	844	1,267	529	38,403	7,311	10,421	13,503	7,168	6.3
Nonowner Occupied	817	112	173	361	171	12,273	2,350	2,211	5,177	2,534	13.2
Unoccupied	197	19	53	101	24	2,077	316	495	800	465	21.6
Government Owned	599	88	132	234	146	15,124	3,422	4,153	5,097	2,452	12.0
Number of Establishments											
One	3,886	617	977	1,605	687	47,997	8,913	12,266	18,409	8,409	7.5
2 to 5	517	104	134	171	107	7,882	1,809	1,831	2,396	1,845	12.7
6 to 10	89	16	16	31	26	2,562	432	563	877	689	19.7
11 to 20	49	6	9	21	14	2,039	355	519	821	345	28.1
More than 20	36	6	5	19	6	4,938	1,558	1,401	1,170	809	25.5
Currently Unoccupied	229	22	60	116	30	2,457	333	699	904	521	22.1

See footnotes at end of table.

Table A2. Census Region, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Northeast	Midwest	South	West	All Buildings	Northeast	Midwest	South	West	
	RSE Column Factor: 0.6	1.2	1.1	1.0	1.3	0.6	1.3	1.1	1.1	1.2	
Percent of Floorspace Heated											
Not Heated	653	77	168	280	128	6,211	646	1,120	2,983	1,460	15.2
1 to 50	688	98	163	298	128	11,195	2,479	2,034	4,414	2,268	13.4
51 to 99	618	111	143	229	135	10,211	2,114	2,249	3,107	2,740	10.9
100	2,846	484	727	1,155	480	40,260	8,161	11,876	14,073	6,151	6.8
Percent of Floorspace Cooled											
Not Cooled	1,304	250	417	394	243	10,835	2,242	2,898	3,372	2,323	11.2
1 to 50	1,176	241	287	486	161	21,715	5,640	6,318	6,482	3,275	8.8
51 to 99	658	125	170	244	119	13,872	3,049	3,825	4,097	2,902	10.7
100	1,668	155	327	839	347	21,454	2,469	4,240	10,627	4,118	9.2
Percent Lit when Open											
Not Lit	413	46	138	178	51	3,280	454	1,031	1,193	601	19.2
1 to 50	881	170	245	344	123	9,980	1,763	2,771	3,759	1,688	11.0
51 to 99	813	171	210	283	148	14,224	3,098	3,914	4,613	2,599	11.1
100	2,699	384	609	1,158	549	40,393	8,085	9,565	15,013	7,731	7.3
Heating Equipment (more than one may apply)											
Heat Pumps	449	41	28	280	99	8,269	1,328	1,324	3,632	1,985	15.4
Furnaces	1,692	290	592	557	252	16,909	3,268	5,579	4,971	3,092	9.2
Individual Space Heaters	1,464	218	376	626	245	22,380	4,907	6,187	7,642	3,643	9.4
District Heat	93	23	23	27	20	5,225	1,553	1,869	927	875	18.3
Boilers	624	260	188	111	65	20,664	6,192	6,478	5,404	2,590	10.3
Packaged Heating Units	870	86	121	440	223	16,000	2,890	3,033	6,440	3,637	11.4
Other	42	12	11	15	Q	903	180	205	309	Q	31.6
Cooling Equipment (more than one may apply)											
Residential-Type Central Air Conditioners	816	97	275	363	82	9,021	1,508	2,968	3,455	1,091	11.7
Heat Pumps	454	43	29	285	96	8,406	1,286	1,416	3,745	1,959	14.8
Individual Air Conditioners	1,023	269	229	433	92	17,979	5,806	4,723	5,683	1,767	11.4
District Chilled Water	28	2	7	10	9	2,066	302	684	659	421	28.3
Central Chillers	142	28	31	58	25	12,991	2,519	3,163	4,854	2,456	14.5
Packaged Air-Conditioning Units	1,459	208	331	610	310	27,830	5,879	6,564	10,058	5,329	8.2
Swamp Coolers	179	Q	Q	39	129	2,085	Q	Q	335	1,546	28.1
Other	8	Q	Q	Q	Q	268	Q	Q	Q	Q	68.4
Building Shell Conservation Features (more than one may apply)											
Roof or Ceiling Insulation	3,343	531	851	1,356	605	50,311	9,893	12,918	18,108	9,392	6.6
Wall Insulation	2,320	376	584	960	401	33,240	6,633	8,184	12,175	6,248	7.7
Storm or Multiple Glazing	1,680	420	616	448	195	29,684	8,075	9,885	8,380	3,344	9.2
Tinted, Reflective or Shading Glass	1,068	115	235	451	266	25,396	4,184	6,540	8,899	5,774	9.9
Exterior or Interior Shading or Awnings	1,853	279	427	741	406	34,071	6,436	8,376	12,210	7,049	8.1
Windows that Open	2,119	451	541	756	371	28,937	7,706	8,117	8,838	4,276	8.5
HVAC Conservation Features (more than one may apply)											
Variable Air-Volume System	250	46	68	59	77	13,970	3,147	4,172	3,744	2,907	13.4
Economizer Cycle	414	64	126	120	105	18,313	4,110	5,571	5,179	3,453	11.8
HVAC Maintenance	2,503	495	596	944	467	49,173	10,634	12,737	16,505	9,297	7.0

See footnotes at end of table.

Table A2. Census Region, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Northeast	Midwest	South	West	All Buildings	Northeast	Midwest	South	West	
	RSE Column Factor:	0.6	1.2	1.1	1.0	1.3	0.6	1.3	1.1	1.1	
Lighting Conservation Features (more than one may apply)											
Specular Reflectors	574	114	141	202	116	15,241	3,837	4,017	4,249	3,138	11.9
Natural Lighting Control											
Sensors	74	12	23	20	20	3,072	626	1,211	569	666	19.7
Occupancy Sensors	59	8	16	7	28	3,629	874	743	764	1,247	18.1
Time Clock	339	74	73	93	100	12,104	2,684	2,392	3,766	3,262	13.9
Manual Dimmer Switches	413	81	120	117	96	12,329	3,027	3,777	2,996	2,529	12.6
Other	78	21	16	12	29	2,596	617	704	440	836	20.3
Energy Conservation Features (more than one may apply)											
Any Conservation Features	4,357	711	1,097	1,737	812	64,403	12,891	16,619	22,659	12,234	6.5
Building Shell	4,223	693	1,076	1,667	787	62,056	12,612	16,031	21,758	11,655	6.6
HVAC	2,604	504	626	980	494	50,281	10,840	13,100	16,864	9,477	6.8
Lighting	1,178	241	295	375	268	29,453	6,727	7,790	8,307	6,628	8.7
Other	264	57	67	85	55	5,952	1,626	1,575	1,757	993	14.2
Energy Management Practices (more than one may apply)											
Energy Management and Control System	236	38	68	71	59	14,320	2,474	4,359	4,506	2,981	13.0
Demand-Side Management Participation	315	99	68	72	75	11,310	3,436	3,279	2,600	1,994	12.9
Energy Audit	521	132	122	157	110	14,779	4,136	3,944	3,810	2,890	10.2
Building Energy Manager	49	8	11	14	16	2,311	340	647	966	359	25.3
Demand-Side Management Programs (more than one may apply)											
Building Shell Program	36	13	8	9	6	1,079	198	447	273	161	29.4
HVAC Program	154	30	33	49	41	6,370	1,386	1,988	1,777	1,220	14.6
Lighting Program	228	85	49	44	50	8,805	3,014	2,620	1,740	1,431	15.4
Other DSM Programs	110	31	27	33	19	6,176	1,801	1,819	1,648	908	18.0

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A3. Census Region, Percent of Buildings and Floorspace, 1992

Building Characteristics	Percent of Buildings					Percent of Floorspace					RSE Row Factor
	All Buildings	Northeast	Midwest	South	West	All Buildings	Northeast	Midwest	South	West	
	--	1.1	1.0	0.8	1.2	--	1.2	0.9	0.9	1.1	
All Buildings	100.0	16.0	25.0	40.8	18.1	100.0	19.7	25.5	36.2	18.6	6.3
Building Floorspace (square feet)											
1,001 to 5,000	100.0	14.3	25.2	43.7	16.8	100.0	14.7	25.8	43.1	16.5	10.0
5,001 to 10,000	100.0	18.5	24.7	37.9	18.9	100.0	18.6	24.5	37.8	19.1	8.3
10,001 to 25,000	100.0	16.9	25.3	36.9	21.0	100.0	16.0	25.9	36.4	21.6	8.5
25,001 to 50,000	100.0	19.2	23.4	37.7	19.8	100.0	19.6	23.4	36.7	20.3	9.8
50,001 to 100,000	100.0	21.4	25.4	35.5	17.7	100.0	21.7	26.0	35.3	17.0	11.1
100,001 to 200,000	100.0	16.4	20.9	37.0	25.7	100.0	16.5	21.2	38.4	23.9	13.8
200,001 to 500,000	100.0	20.5	37.6	24.4	17.4	100.0	21.5	36.0	24.9	17.6	13.2
Over 500,000	100.0	26.0	20.5	44.5	9.1	100.0	31.6	22.0	37.0	9.4	33.0
Principal Building Activity											
Education	100.0	12.5	15.3	37.4	34.8	100.0	23.2	28.2	30.9	17.7	12.7
Food Sales	100.0	Q	22.0	44.0	24.5	100.0	Q	24.1	32.4	27.6	19.7
Food Service	100.0	20.7	28.2	31.9	19.1	100.0	29.8	28.9	27.3	13.9	14.7
Health Care	100.0	18.7	22.5	23.0	35.7	100.0	21.9	27.6	33.9	16.6	22.6
Lodging	100.0	20.0	17.0	36.7	26.4	100.0	21.3	20.0	36.1	22.6	17.9
Mercantile and Service	100.0	19.4	25.8	40.1	14.7	100.0	22.6	25.4	34.1	17.9	10.6
Office	100.0	16.8	22.6	40.0	20.6	100.0	20.5	22.8	33.7	23.0	10.3
Parking Garage	100.0	20.5	48.1	8.4	23.0	100.0	Q	33.4	Q	16.4	38.8
Public Assembly	100.0	14.3	27.2	43.0	15.5	100.0	17.1	18.9	49.8	14.2	21.0
Public Order and Safety	100.0	26.5	Q	40.8	Q	100.0	32.8	Q	29.1	Q	25.8
Religious Worship	100.0	8.3	23.6	52.9	15.2	100.0	12.1	30.4	36.4	21.1	17.2
Warehouse and Storage	100.0	14.4	30.6	41.5	13.5	100.0	15.4	27.1	43.2	14.4	15.1
Other	100.0	22.7	26.1	29.9	21.3	100.0	17.6	26.6	33.9	21.9	27.5
Vacant	100.0	11.3	24.9	48.1	15.6	100.0	16.1	23.7	36.5	23.7	16.9
Year Constructed											
1899 or Before	100.0	31.0	46.1	15.7	Q	100.0	39.3	41.9	9.7	Q	19.5
1900 to 1919	100.0	24.4	41.2	25.9	8.5	100.0	29.2	34.5	21.8	14.5	21.3
1920 to 1945	100.0	22.9	26.6	35.5	15.0	100.0	30.5	26.4	30.4	12.8	13.0
1946 to 1959	100.0	14.1	23.6	41.9	20.4	100.0	19.9	25.2	37.4	17.5	11.4
1960 to 1969	100.0	15.6	22.2	41.4	20.8	100.0	19.7	21.0	39.0	20.3	12.3
1970 to 1979	100.0	12.0	25.3	43.4	19.3	100.0	15.2	29.2	35.2	20.4	9.8
1980 to 1989	100.0	12.7	17.9	50.2	19.3	100.0	14.4	20.9	44.2	20.5	12.5
1990 to 1992	100.0	11.0	29.7	39.7	19.6	100.0	11.4	26.8	36.2	25.6	20.9
Energy Sources (more than one may apply)											
Electricity	100.0	16.4	24.7	40.7	18.3	100.0	19.9	25.4	36.0	18.7	6.2
Natural Gas	100.0	13.9	31.8	33.3	21.0	100.0	19.0	30.7	29.7	20.6	7.7
Fuel Oil	100.0	50.8	14.2	32.6	2.4	100.0	41.9	19.2	27.1	11.8	12.3
District Heat	100.0	24.5	24.8	28.9	21.9	100.0	29.2	35.3	18.4	17.1	18.6
District Chilled Water	100.0	7.3	25.1	36.2	31.4	100.0	14.6	33.1	31.9	20.4	28.9
Propane	100.0	21.2	23.8	45.5	Q	100.0	30.7	17.1	44.6	7.6	19.9
Any Other	100.0	20.0	27.9	38.3	13.9	100.0	28.6	16.4	28.7	26.2	24.5
Energy End Uses (more than one may apply)											
Heated Buildings	100.0	16.6	25.1	40.4	17.9	100.0	20.7	26.3	34.9	18.0	6.3
Air-Conditioned Buildings	100.0	14.9	22.4	44.8	17.9	100.0	19.6	25.2	37.2	18.0	6.5
Buildings with Water Heating	100.0	17.9	25.9	37.3	19.0	100.0	21.2	26.4	33.5	18.8	6.4
Buildings with Cooking	100.0	19.4	27.4	35.0	18.3	100.0	24.9	25.1	33.7	16.3	9.7
Buildings with Manufacturing	100.0	21.5	31.6	31.0	15.9	100.0	23.8	28.2	32.7	15.3	22.3
Predominant Exterior Wall Material											
Masonry	100.0	16.1	24.4	40.5	19.0	100.0	20.5	26.6	35.3	17.5	7.1
Siding or Shingles	100.0	23.1	25.9	33.6	17.4	100.0	26.0	26.3	27.2	20.5	12.6
Metal Panels	100.0	9.1	28.8	49.9	12.1	100.0	12.6	24.0	52.8	10.7	15.6
Concrete Panels	100.0	6.8	13.8	40.8	38.6	100.0	20.2	14.9	29.5	35.4	22.5
Window Glass	100.0	25.3	19.3	38.6	16.7	100.0	18.3	25.8	35.0	20.9	27.0
Other	100.0	12.1	18.9	41.4	27.7	100.0	10.2	29.9	27.1	32.8	35.1

See footnotes at end of table.

Table A3. Census Region, Percent of Buildings and Floorspace, 1992 (Continued)

Building Characteristics RSE Column Factor:	Percent of Buildings					Percent of Floorspace					RSE Row Factor
	All Buildings	Northeast	Midwest	South	West	All Buildings	Northeast	Midwest	South	West	
	--	1.1	1.0	0.8	1.2	--	1.2	0.9	0.9	1.1	
Predominant Roof Material											
Built-Up	100.0	13.8	21.1	40.5	24.7	100.0	16.2	21.1	38.5	24.3	8.7
Shingles (Not Wood)	100.0	20.1	26.7	38.5	14.6	100.0	23.0	30.4	30.0	16.6	9.4
Metal Surfacing	100.0	10.2	25.9	51.8	12.1	100.0	9.5	22.9	56.5	11.1	13.6
Synthetic or Rubber	100.0	25.9	39.5	25.4	9.1	100.0	32.1	36.9	22.3	8.6	11.1
Slate or Tile	100.0	25.9	14.6	29.0	30.5	100.0	26.3	19.3	28.9	25.6	20.6
Concrete	100.0	5.1	14.7	55.1	25.1	100.0	21.9	22.2	36.0	19.9	34.2
Other	100.0	11.3	22.7	38.7	27.3	100.0	21.5	20.2	30.9	27.4	22.2
Floors											
One	100.0	10.9	21.1	48.4	19.6	100.0	11.1	20.2	50.7	17.9	10.1
Two	100.0	18.5	31.3	33.5	16.8	100.0	19.8	28.6	31.4	20.2	8.5
Three	100.0	34.4	35.4	18.8	11.4	100.0	28.4	30.8	22.8	17.9	12.2
Four to Nine	100.0	38.4	25.1	17.9	18.6	100.0	27.4	28.8	26.2	17.6	15.5
Ten or More	100.0	30.6	19.3	22.9	27.1	100.0	32.3	22.8	25.3	19.6	24.6
Percent Window Glass											
25 or Less	100.0	15.4	25.8	41.8	16.9	100.0	17.5	25.4	39.4	17.7	7.2
26 to 50	100.0	19.2	19.4	34.5	26.9	100.0	29.4	24.1	24.3	22.1	10.8
51 to 75	100.0	27.1	24.1	26.0	22.8	100.0	21.9	29.1	29.4	19.7	21.2
76 to 100	100.0	15.8	6.8	52.9	24.4	100.0	15.5	31.3	35.6	17.6	27.1
Workers (main shift)											
Less than 5	100.0	14.9	26.5	43.4	15.2	100.0	15.1	26.5	42.8	15.7	9.9
5 to 9	100.0	16.5	24.3	38.1	21.1	100.0	17.7	24.8	40.0	17.5	9.2
10 to 19	100.0	16.9	21.7	39.6	21.8	100.0	16.9	23.2	40.4	19.5	12.3
20 to 49	100.0	19.0	21.4	36.3	23.3	100.0	19.1	23.9	36.2	20.9	9.9
50 to 99	100.0	22.3	24.0	33.2	20.5	100.0	24.5	25.8	29.4	20.3	13.0
100 to 249	100.0	16.0	25.7	31.1	27.1	100.0	18.7	33.4	26.9	21.0	14.4
250 or More	100.0	23.7	20.1	29.0	27.3	100.0	31.4	20.9	29.4	18.4	15.9
Weekly Operating Hours											
39 or Fewer	100.0	11.9	30.2	46.7	11.2	100.0	17.0	29.8	39.8	13.5	12.2
40 to 48	100.0	14.9	23.0	42.3	19.7	100.0	15.1	23.0	43.6	18.3	9.3
49 to 60	100.0	18.3	23.1	39.4	19.2	100.0	18.7	24.7	35.6	21.0	8.7
61 to 84	100.0	20.0	26.3	34.1	19.6	100.0	21.4	26.6	31.5	20.5	10.5
85 to 167	100.0	17.4	26.6	34.9	21.0	100.0	29.4	26.2	22.9	21.6	13.6
Open Continuously	100.0	16.8	18.0	42.6	22.6	100.0	20.3	24.6	40.0	15.1	15.1
Percent Vacant for at Least Three Months											
1-50 Percent	100.0	23.7	24.0	31.4	20.9	100.0	24.3	28.2	29.1	18.4	11.7
51-99 Percent	100.0	8.3	25.1	48.4	18.2	100.0	22.4	19.5	35.0	23.0	23.8
100 Percent	100.0	11.0	25.4	44.5	19.2	100.0	18.3	23.0	33.5	25.2	15.6
None	100.0	16.0	25.1	41.2	17.7	100.0	18.6	25.2	38.3	17.9	6.9
Ownership and Occupancy											
Nongovernment Owned	100.0	16.2	25.4	41.1	17.2	100.0	18.9	24.9	36.9	19.3	6.3
Owner Occupied	100.0	17.3	26.4	39.7	16.6	100.0	19.0	27.1	35.2	18.7	6.4
Nonowner Occupied	100.0	13.7	21.2	44.2	20.9	100.0	19.2	18.0	42.2	20.6	13.9
Unoccupied	100.0	9.6	27.1	51.1	12.2	100.0	15.2	23.9	38.5	22.4	22.4
Government Owned	100.0	14.7	22.0	39.0	24.3	100.0	22.6	27.5	33.7	16.2	12.2
Number of Establishments											
One	100.0	15.9	25.2	41.3	17.7	100.0	18.6	25.6	38.4	17.5	7.3
2 to 5	100.0	20.1	26.0	33.1	20.8	100.0	23.0	23.2	30.4	23.4	12.9
6 to 10	100.0	18.4	17.7	34.9	29.0	100.0	16.9	22.0	34.2	26.9	20.8
11 to 20	100.0	11.4	17.9	41.9	28.8	100.0	17.4	25.4	40.2	16.9	28.3
More than 20	100.0	16.5	15.2	52.2	16.1	100.0	31.5	28.4	23.7	16.4	24.1
Currently Unoccupied	100.0	9.7	26.2	50.9	13.2	100.0	13.5	28.4	36.8	21.2	22.8

See footnotes at end of table.

Table A3. Census Region, Percent of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Percent of Buildings					Percent of Floorspace					RSE Row Factor
	All Buildings	Northeast	Midwest	South	West	All Buildings	Northeast	Midwest	South	West	
	RSE Column Factor:	--	1.1	1.0	0.8	1.2	--	1.2	0.9	0.9	
Percent of Floorspace Heated											
Not Heated	100.0	11.8	25.8	42.9	19.5	100.0	10.4	18.0	48.0	23.5	15.7
1 to 50	100.0	14.3	23.7	43.4	18.6	100.0	22.1	18.2	39.4	20.3	14.1
51 to 99	100.0	18.0	23.2	37.1	21.8	100.0	20.7	22.0	30.4	26.8	10.9
100	100.0	17.0	25.5	40.6	16.9	100.0	20.3	29.5	35.0	15.3	7.0
Percent of Floorspace Cooled											
Not Cooled	100.0	19.1	32.0	30.2	18.6	100.0	20.7	26.7	31.1	21.4	11.4
1 to 50	100.0	20.5	24.4	41.3	13.7	100.0	26.0	29.1	29.8	15.1	8.9
51 to 99	100.0	19.0	25.9	37.0	18.1	100.0	22.0	27.6	29.5	20.9	10.8
100	100.0	9.3	19.6	50.3	20.8	100.0	11.5	19.8	49.5	19.2	9.2
Percent Lit when Open											
Not Lit	100.0	11.2	33.3	43.2	12.2	100.0	13.9	31.4	36.4	18.3	19.6
1 to 50	100.0	19.3	27.8	39.0	13.9	100.0	17.7	27.8	37.7	16.9	11.2
51 to 99	100.0	21.1	25.8	34.8	18.3	100.0	21.8	27.5	32.4	18.3	11.7
100	100.0	14.2	22.6	42.9	20.3	100.0	20.0	23.7	37.2	19.1	6.9
Heating Equipment (more than one may apply)											
Heat Pumps	100.0	9.2	6.2	62.4	22.1	100.0	16.1	16.0	43.9	24.0	15.7
Furnaces	100.0	17.2	35.0	33.0	14.9	100.0	19.3	33.0	29.4	18.3	9.7
Individual Space Heaters	100.0	14.9	25.7	42.7	16.8	100.0	21.9	27.6	34.1	16.3	9.5
District Heat	100.0	24.9	25.1	28.5	21.5	100.0	29.7	35.8	17.7	16.8	18.7
Boilers	100.0	41.8	30.2	17.7	10.4	100.0	30.0	31.3	26.2	12.5	11.1
Packaged Heating Units	100.0	9.9	13.9	50.5	25.6	100.0	18.1	19.0	40.3	22.7	11.2
Other	100.0	27.7	25.3	35.3	Q	100.0	20.0	22.7	34.2	Q	30.6
Cooling Equipment (more than one may apply)											
Residential-Type Central Air Conditioners	100.0	11.9	33.7	44.4	10.1	100.0	16.7	32.9	38.3	12.1	11.9
Heat Pumps	100.0	9.5	6.5	62.8	21.3	100.0	15.3	16.8	44.5	23.3	15.2
Individual Air Conditioners	100.0	26.3	22.4	42.3	9.0	100.0	32.3	26.3	31.6	9.8	11.7
District Chilled Water	100.0	7.3	25.1	36.2	31.4	100.0	14.6	33.1	31.9	20.4	28.9
Central Chillers	100.0	19.7	22.0	40.6	17.7	100.0	19.4	24.3	37.4	18.9	14.9
Packaged Air-Conditioning Units	100.0	14.2	22.7	41.8	21.2	100.0	21.1	23.6	36.1	19.1	8.2
Swamp Coolers	100.0	Q	Q	21.6	71.9	100.0	Q	Q	16.1	74.1	19.7
Other	100.0	Q	Q	Q	Q	100.0	Q	Q	Q	Q	100.0
Building Shell Conservation Features (more than one may apply)											
Roof or Ceiling Insulation	100.0	15.9	25.5	40.5	18.1	100.0	19.7	25.7	36.0	18.7	6.8
Wall Insulation	100.0	16.2	25.2	41.4	17.3	100.0	20.0	24.6	36.6	18.8	7.9
Storm or Multiple Glazing	100.0	25.0	36.7	26.7	11.6	100.0	27.2	33.3	28.2	11.3	9.5
Tinted, Reflective or Shading Glass	100.0	10.8	22.0	42.2	24.9	100.0	16.5	25.8	35.0	22.7	9.4
Exterior or Interior Shading or Awnings	100.0	15.1	23.1	40.0	21.9	100.0	18.9	24.6	35.8	20.7	8.4
Windows that Open	100.0	21.3	25.5	35.7	17.5	100.0	26.6	28.1	30.5	14.8	8.6
HVAC Conservation Features (more than one may apply)											
Variable Air-Volume System	100.0	18.3	27.4	23.6	30.8	100.0	22.5	29.9	26.8	20.8	13.7
Economizer Cycle	100.0	15.3	30.5	28.9	25.2	100.0	22.4	30.4	28.3	18.9	12.2
HVAC Maintenance	100.0	19.8	23.8	37.7	18.7	100.0	21.6	25.9	33.6	18.9	6.9

See footnotes at end of table.

Table A3. Census Region, Percent of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Percent of Buildings					Percent of Floorspace					RSE Row Factor
	All Buildings	Northeast	Midwest	South	West	All Buildings	Northeast	Midwest	South	West	
	RSE Column Factor:	--	1.1	1.0	0.8	1.2	--	1.2	0.9	0.9	
Lighting Conservation Features (more than one may apply)											
Specular Reflectors	100.0	19.9	24.6	35.2	20.2	100.0	25.2	26.4	27.9	20.6	11.7
Natural Lighting Control Sensors	100.0	16.8	30.4	26.4	26.4	100.0	20.4	39.4	18.5	21.7	19.3
Occupancy Sensors	100.0	13.4	27.5	11.4	47.8	100.0	24.1	20.5	21.1	34.4	19.1
Time Clock	100.0	21.8	21.4	27.3	29.4	100.0	22.2	19.8	31.1	27.0	14.6
Manual Dimmer Switches	100.0	19.5	29.0	28.4	23.1	100.0	24.5	30.6	24.3	20.5	12.5
Other	100.0	26.9	20.5	14.9	37.7	100.0	23.7	27.1	16.9	32.2	20.2
Energy Conservation Features (more than one may apply)											
Any Conservation Features	100.0	16.3	25.2	39.9	18.6	100.0	20.0	25.8	35.2	19.0	6.5
Building Shell	100.0	16.4	25.5	39.5	18.6	100.0	20.3	25.8	35.1	18.8	6.6
HVAC	100.0	19.4	24.0	37.6	19.0	100.0	21.6	26.1	33.5	18.8	6.7
Lighting	100.0	20.4	25.0	31.8	22.7	100.0	22.8	26.4	28.2	22.5	9.0
Other	100.0	21.6	25.6	32.1	20.7	100.0	27.3	26.5	29.5	16.7	13.9
Energy Management Practices (more than one may apply)											
Energy Management and Control System	100.0	16.3	28.8	29.9	24.9	100.0	17.3	30.4	31.5	20.8	12.7
Demand-Side Management Participation	100.0	31.4	21.7	23.0	23.9	100.0	30.4	29.0	23.0	17.6	13.1
Energy Audit	100.0	25.4	23.3	30.1	21.2	100.0	28.0	26.7	25.8	19.6	9.9
Building Energy Manager	100.0	15.5	23.0	28.8	32.7	100.0	14.7	28.0	41.8	15.5	24.7
Demand-Side Management Programs (more than one may apply)											
Building Shell Program	100.0	35.9	23.4	23.7	17.0	100.0	18.3	41.4	25.3	14.9	29.6
HVAC Program	100.0	19.8	21.6	31.9	26.7	100.0	21.8	31.2	27.9	19.1	14.2
Lighting Program	100.0	37.2	21.6	19.4	21.9	100.0	34.2	29.8	19.8	16.3	15.5
Other DSM Programs	100.0	28.1	24.3	30.1	17.5	100.0	29.2	29.5	26.7	14.7	17.8

-- = Data not applicable.

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A4. Census Region and Division, Number of Buildings, 1992
(Thousand)

Building Characteristics	Census Region and Division										RSE Row Factor
	All Buildings	Northeast		Midwest		South			West		
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
		0.3	1.7	1.0	0.8	1.3	0.8	1.3	1.2	1.5	
All Buildings	4,806	186	585	749	453	755	454	754	297	574	13.0
Building Floorspace (square feet)											
1,001 to 5,000	2,681	87	297	422	254	431	249	490	166	285	16.1
5,001 to 10,000	975	50	129	149	92	138	97	135	51	133	14.7
10,001 to 25,000	647	22	88	104	59	99	63	76	49	87	15.3
25,001 to 50,000	280	14	40	37	29	51	29	26	20	35	17.6
50,001 to 100,000	116	9	16	22	8	18	8	14	5	16	17.6
100,001 to 200,000	71	3	8	9	6	13	7	7	4	14	23.9
200,001 to 500,000	26	(*)	5	5	4	4	1	2	1	4	25.3
Over 500,000	9	Q	2	1	1	1	Q	Q	Q	1	44.0
Principal Building Activity											
Education	301	12	26	26	20	40	19	54	22	82	21.6
Food Sales	130	Q	Q	Q	Q	Q	Q	Q	Q	Q	38.4
Food Service	260	Q	45	48	Q	39	Q	34	Q	38	20.6
Health Care	63	Q	9	8	Q	Q	Q	Q	Q	19	37.5
Lodging	154	Q	21	11	15	29	17	11	13	28	30.5
Mercantile and Service	1,272	55	191	216	113	177	137	196	63	124	14.2
Office	749	42	84	116	53	113	78	108	52	102	18.0
Parking Garage	24	Q	Q	Q	Q	2	Q	Q	Q	2	56.8
Public Assembly	278	11	29	44	32	53	17	49	17	26	22.3
Public Order and Safety	60	Q	16	Q	Q	Q	Q	Q	Q	Q	32.9
Religious Worship	366	Q	22	47	39	86	Q	65	23	33	23.8
Warehouse and Storage	761	18	91	142	91	116	83	117	48	54	22.5
Other	69	Q	13	Q	11	11	Q	Q	Q	Q	43.8
Vacant	319	Q	29	53	27	47	35	72	Q	31	24.0
Year Constructed											
1899 or Before	169	10	42	52	26	Q	Q	Q	Q	Q	27.4
1900 to 1919	255	22	41	67	38	21	Q	26	Q	Q	27.4
1920 to 1945	724	36	130	125	68	98	59	100	35	74	21.2
1946 to 1959	880	37	87	134	74	127	70	172	48	131	16.6
1960 to 1969	783	23	99	111	63	140	74	111	52	110	17.0
1970 to 1979	982	29	89	167	81	158	110	158	64	126	17.3
1980 to 1989	884	25	87	75	83	175	99	169	69	101	17.3
1990 to 1992	128	Q	9	18	20	26	16	9	4	21	35.2
Energy Sources (more than one may apply)											
Electricity	4,616	186	569	723	416	736	428	712	283	562	12.8
Natural Gas	2,665	63	307	561	287	188	224	476	198	362	15.3
Fuel Oil	559	104	180	59	20	130	35	17	3	11	23.3
District Heat	95	6	18	10	13	16	5	7	9	12	27.6
District Chilled Water	28	Q	2	1	6	6	Q	3	Q	7	41.2
Propane	337	Q	45	33	Q	101	38	Q	Q	Q	31.4
Any Other	163	Q	24	24	Q	40	Q	Q	Q	19	32.7
Energy End Uses (more than one may apply)											
Heated Buildings	4,178	182	513	662	385	657	404	626	255	495	12.7
Air-Conditioned Buildings	3,502	128	393	478	307	596	369	604	221	407	12.4
Buildings with Water Heating	3,502	162	464	577	329	509	316	482	222	442	12.6
Buildings with Cooking	734	36	106	132	69	105	56	96	32	102	16.4
Buildings with Manufacturing	121	13	13	21	Q	14	Q	19	Q	13	29.3

See footnotes at end of table.

Table A4. Census Region and Division, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	Census Region and Division										RSE Row Factor
	All Buildings	Northeast		Midwest		South			West		
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
RSE Column Factor:	0.3	1.7	1.0	0.8	1.3	0.8	1.3	1.2	1.5	0.9	
Predominant Exterior Wall Material											
Masonry	3,115	116	387	498	262	524	296	441	210	383	12.5
Siding or Shingles	764	48	129	122	76	104	49	104	27	105	20.8
Metal Panels	745	Q	55	113	102	101	96	175	Q	45	23.3
Concrete Panels	87	Q	5	5	7	Q	Q	22	8	26	27.6
Window Glass	46	Q	Q	Q	Q	Q	Q	5	Q	7	38.7
Other	47	Q	Q	Q	Q	Q	Q	Q	Q	Q	57.0
Predominant Roof Material											
Built-Up	1,642	57	170	229	117	256	143	266	134	272	13.3
Shingles (Not Wood)	1,381	76	202	245	124	232	133	166	63	139	16.3
Metal Surfacing	1,037	Q	89	135	133	162	125	250	Q	68	21.9
Synthetic or Rubber	386	28	72	112	41	46	25	27	11	25	18.9
Slate or Tile	155	8	32	12	Q	21	Q	Q	Q	38	27.9
Concrete	37	Q	2	4	Q	15	Q	Q	Q	6	53.5
Other	167	Q	18	Q	26	23	Q	26	Q	26	33.2
Floors											
One	3,007	70	259	381	253	518	312	625	198	390	16.3
Two	1,154	54	160	226	134	172	113	102	65	129	13.9
Three	446	39	115	113	45	44	21	19	16	34	22.5
Four to Nine	186	23	48	27	20	19	7	Q	16	18	25.3
Ten or More	13	Q	3	2	Q	Q	Q	Q	Q	3	35.4
Percent Window Glass											
25 or Less	4,193	147	499	660	422	679	392	683	258	452	13.5
26 to 50	490	27	67	68	28	60	50	59	33	98	17.0
51 to 75	94	11	15	20	Q	9	Q	Q	Q	19	31.8
76 to 100	29	Q	3	2	Q	8	Q	Q	Q	4	42.1
Workers (main shift)											
Less than 5	2,718	76	328	447	275	448	247	485	155	257	16.1
5 to 9	895	44	104	148	69	117	78	145	63	125	15.4
10 to 19	561	27	67	66	56	90	73	60	36	87	18.2
20 to 49	405	23	54	54	33	61	41	45	27	67	16.4
50 to 99	130	10	19	20	12	23	9	11	8	18	19.9
100 to 249	64	3	7	11	6	10	5	5	4	13	22.0
250 or More	31	2	6	4	3	6	1	2	Q	6	23.6
Weekly Operating Hours											
39 or Fewer	1,039	16	107	176	138	185	93	208	46	70	20.7
40 to 48	1,278	52	139	198	96	183	151	207	86	166	16.6
49 to 60	1,004	43	141	159	72	152	84	159	61	132	15.3
61 to 84	645	33	95	107	63	91	44	85	38	88	14.4
85 to 167	478	28	55	74	53	72	42	52	36	65	19.8
Open Continuously	362	14	47	34	31	71	41	43	29	53	21.0
Percent Vacant for at Least Three Months											
1-50 Percent	362	30	55	51	36	53	23	38	20	56	18.7
51-99 Percent	97	Q	6	11	Q	15	Q	22	Q	10	36.2
100 Percent	398	Q	36	55	46	61	36	80	23	54	23.7
None	3,948	146	487	632	357	626	385	614	247	454	13.3
Ownership and Occupancy											
Nongovernment Owned	4,206	163	520	679	392	660	407	662	251	474	12.9
Owner Occupied	3,192	140	413	562	282	474	321	473	205	325	13.6
Nonowner Occupied	817	21	91	82	91	149	73	139	39	132	18.9
Unoccupied	197	Q	17	35	Q	37	Q	51	Q	17	30.9
Government Owned	599	23	65	71	61	95	47	91	46	100	20.6

See footnotes at end of table.

Table A4. Census Region and Division, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	Census Region and Division										RSE Row Factor
	All Buildings	Northeast		Midwest		South			West		
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
RSE Column Factor:	0.3	1.7	1.0	0.8	1.3	0.8	1.3	1.2	1.5	0.9	
Number of Establishments											
One	3,886	144	473	614	363	608	380	617	246	441	13.9
2 to 5	517	33	71	83	51	67	49	55	31	76	18.7
6 to 10	89	Q	11	7	Q	21	Q	9	Q	24	28.4
11 to 20	49	Q	Q	Q	Q	12	Q	Q	Q	10	44.8
More than 20	36	Q	5	3	3	8	Q	7	Q	5	36.0
Currently Unoccupied	229	Q	20	39	Q	40	Q	60	Q	17	28.9
Percent of Floorspace Heated											
Not Heated	653	Q	72	98	71	100	50	130	Q	84	20.7
1 to 50	688	20	78	105	58	126	67	106	37	91	19.0
51 to 99	618	35	76	89	54	80	40	109	39	96	19.2
100	2,846	126	358	457	270	449	297	409	178	302	13.0
Percent of Floorspace Cooled											
Not Cooled	1,304	58	192	272	146	160	84	150	76	167	19.1
1 to 50	1,176	49	192	176	111	200	110	177	51	110	15.0
51 to 99	658	40	85	112	58	82	66	96	41	79	18.2
100	1,668	39	116	190	137	314	194	331	129	218	14.7
Percent Lit when Open											
Not Lit	413	Q	41	61	77	50	37	92	Q	26	26.0
1 to 50	881	29	141	161	84	134	73	137	44	78	17.5
51 to 99	813	40	131	148	62	122	61	101	49	100	16.6
100	2,699	112	271	379	230	450	284	424	180	369	13.3
Heating Equipment (more than one may apply)											
Heat Pumps	449	8	34	16	12	160	78	43	30	70	23.2
Furnaces	1,692	60	231	378	213	187	129	241	104	148	16.3
Individual Space Heaters	1,464	55	163	233	143	229	173	223	90	155	16.9
District Heat	93	6	18	10	13	16	5	6	8	12	27.9
Boilers	624	90	171	124	64	63	24	23	32	33	18.5
Packaged Heating Units	870	22	65	76	45	155	88	197	41	181	18.1
Other	42	Q	Q	Q	Q	Q	Q	Q	Q	Q	65.5
Cooling Equipment (more than one may apply)											
Residential-Type Central											
Air Conditioners	816	33	64	157	118	113	71	179	33	49	20.6
Heat Pumps	454	11	32	18	11	161	83	41	30	66	21.5
Individual Air Conditioners	1,023	64	204	161	69	163	110	161	26	66	18.2
District Chilled Water	28	Q	2	1	6	6	Q	3	Q	7	41.2
Central Chillers	142	11	17	19	13	32	10	16	8	17	22.0
Packaged Air-Conditioning											
Units	1,459	48	160	197	134	211	136	263	78	232	14.8
Swamp Coolers	179	Q	Q	Q	Q	Q	Q	33	93	36	34.8
Other	8	Q	Q	Q	Q	Q	Q	Q	Q	Q	126.7
Building Shell Conservation Features (more than one may apply)											
Roof or Ceiling Insulation	3,343	151	380	538	313	561	310	485	231	374	13.1
Wall Insulation	2,320	102	273	362	222	391	229	339	137	264	14.3
Storm or Multiple Glazing	1,680	110	310	399	217	203	136	110	96	99	16.8
Tinted, Reflective or Shading Glass	1,068	32	83	137	99	189	95	166	79	188	15.1
Exterior or Interior Shading or Awnings	1,853	81	198	259	168	306	170	265	134	272	14.6
Windows that Open	2,119	119	332	354	187	338	165	252	122	249	15.8

See footnotes at end of table.

Table A4. Census Region and Division, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	Census Region and Division										RSE Row Factor
	All Buildings	Northeast		Midwest		South			West		
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
		0.3	1.7	1.0	0.8	1.3	0.8	1.3	1.2	1.5	
HVAC Conservation Features (more than one may apply)											
Variable Air-Volume System	250	Q	30	41	27	28	11	20	21	56	17.7
Economizer Cycle	414	17	46	71	56	66	28	26	36	69	18.9
HVAC Maintenance	2,503	144	351	373	223	398	219	328	155	312	13.5
Lighting Conservation Features (more than one may apply)											
Specular Reflectors	574	32	82	89	52	85	44	73	23	93	18.9
Natural Lighting Control											
Sensors	74	2	11	15	8	12	Q	Q	9	11	33.0
Occupancy Sensors	59	3	4	15	Q	3	Q	3	4	24	28.7
Time Clock	339	23	51	51	22	56	10	27	33	66	20.6
Manual Dimmer Switches	413	31	50	79	41	49	24	45	32	64	18.8
Other	78	Q	18	10	Q	5	Q	Q	13	17	37.0
Energy Conservation Features (more than one may apply)											
Any Conservation Features	4,357	182	530	693	403	704	391	642	279	533	12.9
Building Shell	4,223	179	514	677	399	679	371	617	269	518	13.1
HVAC	2,604	145	359	390	236	420	226	333	166	328	13.2
Lighting	1,178	72	168	195	100	164	74	137	81	187	14.2
Other	264	13	44	50	18	44	8	32	15	40	23.8
Energy Management Practices (more than one may apply)											
Energy Management and Control System	236	14	25	44	24	23	27	21	14	45	20.3
Demand-Side Management Participation	315	45	54	53	16	44	15	14	13	62	23.1
Energy Audit	521	43	89	84	38	64	34	59	17	93	20.0
Building Energy Manager	49	Q	Q	7	Q	3	Q	10	Q	12	40.3
Demand-Side Management Programs (more than one may apply)											
Building Shell Program	36	Q	Q	8	Q	6	Q	Q	Q	6	50.2
HVAC Program	154	Q	20	25	8	33	Q	8	Q	32	23.9
Lighting Program	228	41	44	42	7	25	9	10	8	41	26.0
Other DSM Programs	110	Q	13	19	7	22	Q	6	Q	18	26.8

(*) = Value rounds to zero in the units displayed.

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A5. Census Region and Division, Floorspace, 1992
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Census Region and Division									RSE Row Factor
		Northeast		Midwest		South			West		
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
RSE Column Factor:	0.4	1.5	1.1	0.8	1.2	0.9	1.1	1.3	1.3	0.9	
All Buildings	67,876	3,265	10,135	10,712	6,568	10,586	5,375	8,616	3,645	8,974	10.9
Building Floorspace (square feet)											
1,001 to 5,000	7,327	240	834	1,224	666	1,123	659	1,373	460	748	16.2
5,001 to 10,000	7,199	387	949	1,079	684	1,028	703	992	388	988	14.5
10,001 to 25,000	10,375	333	1,330	1,685	1,004	1,542	999	1,241	811	1,430	14.9
25,001 to 50,000	10,069	520	1,456	1,356	998	1,737	1,047	912	773	1,270	18.4
50,001 to 100,000	8,062	625	1,127	1,588	510	1,254	585	1,003	288	1,083	17.2
100,001 to 200,000	9,678	460	1,138	1,231	817	1,847	943	930	497	1,815	23.3
200,001 to 500,000	7,889	156	1,540	1,496	1,343	1,083	359	526	295	1,091	25.1
Over 500,000	7,278	Q	1,759	1,053	548	972	Q	Q	Q	550	40.3
Principal Building Activity											
Education	8,470	604	1,364	1,534	852	1,168	548	904	410	1,086	17.8
Food Sales	757	Q	Q	Q	Q	Q	Q	Q	Q	Q	38.6
Food Service	1,491	Q	348	290	Q	180	Q	178	Q	154	21.0
Health Care	1,763	Q	241	265	222	307	Q	Q	Q	261	29.9
Lodging	2,891	Q	458	409	168	524	258	261	235	419	27.1
Mercantile and Service	12,402	603	2,195	1,860	1,296	1,632	1,129	1,472	662	1,552	18.8
Office	12,319	691	1,833	2,025	780	2,040	941	1,171	758	2,080	15.2
Parking Garage	1,652	Q	Q	Q	Q	Q	Q	Q	Q	224	55.2
Public Assembly	4,556	Q	547	457	404	704	180	Q	207	442	28.7
Public Order and Safety	820	Q	268	Q	Q	Q	Q	Q	Q	Q	47.4
Religious Worship	3,747	Q	377	816	322	649	286	431	200	592	30.2
Warehouse and Storage	11,484	289	1,475	1,909	1,199	2,115	1,441	1,408	607	1,042	24.5
Other	1,130	Q	120	Q	Q	167	Q	Q	Q	181	36.9
Vacant	4,396	Q	490	538	505	437	253	914	236	805	29.8
Year Constructed											
1899 or Before	1,721	113	562	404	Q	Q	Q	Q	Q	Q	28.6
1900 to 1919	3,608	310	743	780	Q	Q	Q	Q	Q	Q	28.1
1920 to 1945	8,712	570	2,085	1,586	710	1,006	562	1,078	297	818	22.6
1946 to 1959	10,421	441	1,629	1,921	708	1,230	1,057	1,610	545	1,280	19.7
1960 to 1969	12,612	436	2,048	1,861	790	2,667	907	1,340	670	1,892	20.1
1970 to 1979	14,014	634	1,490	2,350	1,736	2,267	1,195	1,478	699	2,166	16.2
1980 to 1989	14,287	669	1,384	1,442	1,540	2,589	1,266	2,463	1,022	1,912	20.5
1990 to 1992	2,502	Q	194	369	301	487	268	151	148	491	25.8
Energy Sources (more than one may apply)											
Electricity	66,549	3,265	9,971	10,586	6,328	10,431	5,237	8,318	3,562	8,853	11.0
Natural Gas	45,097	1,761	6,798	8,669	5,169	4,776	3,259	5,372	2,560	6,732	12.1
Fuel Oil	13,218	2,184	3,351	1,604	938	2,319	557	706	348	1,212	18.4
District Heat	5,339	413	1,147	991	893	451	131	402	364	548	24.6
District Chilled Water	2,066	Q	245	Q	462	252	Q	345	Q	345	36.7
Propane	3,393	Q	581	349	230	1,177	221	Q	Q	221	27.8
Any Other	1,551	Q	383	136	Q	Q	Q	Q	Q	Q	35.6
Energy End Uses (more than one may apply)											
Heated Buildings	61,996	3,220	9,638	10,168	6,135	9,482	4,550	7,627	3,382	7,794	10.8
Air-Conditioned Buildings	57,041	2,647	8,511	8,748	5,635	9,358	4,397	7,451	3,081	7,215	11.2
Buildings with Water Heating	58,479	3,043	9,367	9,580	5,880	8,581	4,127	6,884	3,221	7,795	10.7
Buildings with Cooking	23,065	1,411	4,329	3,727	2,073	3,379	1,337	3,052	1,007	2,751	17.4
Buildings with Manufacturing	3,174	371	385	722	173	486	Q	488	Q	301	30.9

See footnotes at end of table.

Table A5. Census Region and Division, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Census Region and Division									RSE Row Factor
		Northeast		Midwest		South			West		
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
RSE Column Factor:	0.4	1.5	1.1	0.8	1.2	0.9	1.1	1.3	1.3	0.9	
Predominant Exterior Wall Material											
Masonry	48,585	2,537	7,444	8,236	4,677	7,852	3,297	6,024	2,643	5,874	11.7
Siding or Shingles	3,873	365	643	617	400	371	224	457	96	700	20.4
Metal Panels	7,392	Q	786	967	808	1,389	1,300	1,211	301	487	22.8
Concrete Panels	4,961	Q	Q	323	418	587	Q	511	514	1,241	27.2
Window Glass	2,028	Q	310	480	Q	320	Q	220	Q	380	35.4
Other	1,037	Q	Q	Q	Q	Q	Q	Q	Q	Q	55.6
Predominant Roof Material											
Built-Up	30,257	882	4,007	4,485	1,889	5,096	2,175	4,381	2,048	5,293	15.1
Shingles (Not Wood)	10,570	696	1,738	2,221	992	1,201	872	1,095	466	1,289	18.7
Metal Surfacing	9,019	Q	678	941	1,123	1,884	1,184	2,029	424	579	20.1
Synthetic or Rubber	11,702	941	2,817	2,489	1,828	1,169	848	597	317	695	18.1
Slate or Tile	1,998	209	317	186	Q	310	Q	200	Q	431	33.9
Concrete	2,544	Q	225	Q	Q	Q	Q	167	Q	418	42.9
Other	1,786	Q	354	Q	246	242	Q	146	Q	269	30.1
Floors											
One	25,424	563	2,271	3,172	1,974	4,634	2,622	5,637	1,384	3,168	17.1
Two	18,025	883	2,680	3,389	1,764	2,619	1,480	1,561	1,138	2,511	15.3
Three	9,877	623	2,184	1,969	1,073	1,288	420	547	388	1,385	18.8
Four to Nine	10,377	832	2,016	1,533	1,456	1,593	Q	440	611	1,217	22.0
Ten or More	4,173	Q	984	648	Q	451	Q	432	Q	695	32.8
Percent Window Glass											
25 or Less	51,356	1,978	7,011	7,563	5,464	8,644	4,278	7,307	2,851	6,262	12.6
26 to 50	11,815	1,092	2,387	1,958	894	1,225	744	903	601	2,012	19.3
51 to 75	3,206	119	582	787	Q	393	Q	255	Q	526	26.4
76 to 100	1,499	Q	156	Q	Q	324	Q	Q	Q	175	31.5
Workers (main shift)											
Less than 5	17,944	420	2,287	3,023	1,724	2,844	1,264	3,568	947	1,866	18.6
5 to 9	7,524	342	986	1,192	675	1,252	745	1,015	367	949	16.9
10 to 19	8,077	360	1,006	808	1,064	1,224	1,272	770	557	1,016	21.6
20 to 49	10,556	533	1,481	1,659	862	1,653	911	1,254	655	1,549	16.5
50 to 99	7,763	572	1,327	1,329	673	982	438	865	453	1,125	21.5
100 to 249	7,378	312	1,065	1,562	905	1,174	342	468	273	1,277	24.0
250 or More	8,633	725	1,982	1,138	667	1,455	403	676	393	1,193	24.5
Weekly Operating Hours											
39 or Fewer	8,246	Q	1,185	1,523	931	1,282	596	1,401	352	762	20.4
40 to 48	14,998	715	1,557	2,399	1,047	2,414	2,227	1,901	926	1,812	16.5
49 to 60	14,046	489	2,133	2,404	1,070	2,195	902	1,906	927	2,021	13.8
61 to 84	12,062	790	1,788	2,116	1,097	1,894	606	1,295	490	1,986	18.5
85 to 167	8,467	528	1,958	1,033	1,184	949	471	518	456	1,370	19.6
Open Continuously	10,057	528	1,514	1,238	1,239	1,852	573	Q	495	1,022	20.4
Percent Vacant for at Least Three Months											
1-50 Percent	12,420	920	2,101	2,327	1,174	1,871	700	1,039	507	1,782	19.9
51-99 Percent	2,263	Q	307	298	Q	228	Q	Q	Q	446	38.3
100 Percent	4,109	Q	554	439	507	491	295	591	259	775	23.8
None	49,085	1,946	7,173	7,649	4,743	7,995	4,304	6,500	2,804	5,972	12.1
Ownership and Occupancy											
Nongovernment Owned	52,752	2,604	7,374	8,567	4,561	8,032	4,425	7,023	2,794	7,373	11.0
Owner Occupied	38,403	2,257	5,054	7,136	3,285	5,456	3,483	4,564	2,240	4,928	10.5
Nonowner Occupied	12,273	295	2,055	1,150	1,062	2,262	847	Q	448	2,086	21.3
Unoccupied	2,077	Q	265	281	Q	315	Q	Q	Q	359	32.4
Government Owned	15,124	661	2,761	2,145	2,008	2,553	951	1,593	851	1,602	18.5

See footnotes at end of table.

Table A5. Census Region and Division, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Census Region and Division										RSE Row Factor
	Total Floorspace of All Buildings	Northeast		Midwest		South			West		
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
RSE Column Factor:	0.4	1.5	1.1	0.8	1.2	0.9	1.1	1.3	1.3	0.9	
Number of Establishments											
One	47,997	2,171	6,742	7,839	4,428	7,329	4,275	6,805	2,607	5,802	12.9
2 to 5	7,882	447	1,362	1,033	798	1,081	737	578	621	1,225	22.9
6 to 10	2,562	Q	330	407	Q	450	Q	367	Q	609	28.7
11 to 20	2,039	Q	272	Q	Q	600	Q	Q	Q	280	37.2
More than 20	4,938	Q	1,148	935	466	783	Q	277	Q	697	30.8
Currently Unoccupied	2,457	Q	281	298	Q	343	Q	454	Q	362	31.3
Percent of Floorspace Heated											
Not Heated	6,211	Q	583	625	495	1,159	825	999	269	1,191	27.3
1 to 50	11,195	500	1,979	1,181	853	2,094	847	1,474	508	1,760	23.1
51 to 99	10,211	559	1,555	1,607	642	1,444	436	1,227	739	2,002	20.2
100	40,260	2,142	6,018	7,298	4,578	5,889	3,267	4,916	2,129	4,022	11.5
Percent of Floorspace Cooled											
Not Cooled	10,835	618	1,625	1,964	934	1,228	979	1,166	564	1,759	21.7
1 to 50	21,715	1,377	4,263	3,769	2,549	3,137	1,304	2,041	859	2,417	15.4
51 to 99	13,872	655	2,393	2,522	1,303	1,823	917	1,357	927	1,975	16.2
100	21,454	615	1,854	2,457	1,783	4,398	2,175	4,053	1,295	2,824	15.0
Percent Lit when Open											
Not Lit	3,280	Q	370	424	607	395	238	560	201	401	28.3
1 to 50	9,980	436	1,327	1,942	829	1,373	1,071	1,315	336	1,352	20.7
51 to 99	14,224	824	2,274	2,734	1,180	1,784	791	Q	752	1,847	17.4
100	40,393	1,921	6,164	5,612	3,953	7,034	3,275	4,704	2,356	5,374	11.5
Heating Equipment (more than one may apply)											
Heat Pumps	8,269	295	1,033	857	467	2,218	980	433	452	1,533	20.6
Furnaces	16,909	570	2,698	3,516	2,063	1,742	1,218	2,011	1,008	2,083	15.7
Individual Space Heaters	22,380	974	3,934	3,721	2,466	3,482	1,541	2,619	1,205	2,438	14.1
District Heat	5,225	406	1,147	976	893	401	131	395	342	533	24.8
Boilers	20,664	1,868	4,325	4,234	2,244	2,493	989	Q	800	1,789	15.6
Packaged Heating Units	16,000	479	2,411	2,053	981	3,061	1,010	2,369	548	3,089	16.8
Other	903	Q	Q	Q	Q	Q	Q	Q	Q	Q	47.2
Cooling Equipment (more than one may apply)											
Residential-Type Central											
Air Conditioners	9,021	588	920	1,758	1,210	1,234	807	1,413	414	677	17.9
Heat Pumps	8,406	342	944	924	491	2,298	1,064	383	458	1,502	20.5
Individual Air Conditioners	17,979	1,201	4,605	3,011	1,712	2,220	1,040	2,423	475	1,292	20.6
District Chilled Water	2,066	Q	245	Q	462	252	Q	345	Q	345	36.7
Central Chillers	12,991	896	1,623	2,041	1,122	2,161	754	Q	650	1,806	20.6
Packaged Air-Conditioning											
Units	27,830	1,261	4,618	3,930	2,634	4,708	1,781	3,570	1,347	3,981	13.5
Swamp Coolers	2,085	Q	Q	Q	Q	Q	Q	Q	1,156	390	33.1
Other	268	Q	Q	Q	Q	Q	Q	Q	Q	Q	93.0
Building Shell Conservation Features (more than one may apply)											
Roof or Ceiling Insulation	50,311	2,720	7,173	7,781	5,137	8,371	3,734	6,002	3,094	6,298	11.1
Wall Insulation	33,240	2,001	4,632	5,060	3,124	5,354	2,716	4,106	2,038	4,210	12.1
Storm or Multiple Glazing	29,684	2,314	5,761	6,180	3,706	3,704	2,083	2,593	1,500	1,843	14.8
Tinted, Reflective or Shading Glass	25,396	1,239	2,945	3,955	2,585	3,908	1,587	3,403	1,607	4,166	15.7
Exterior or Interior Shading or Awnings	34,071	1,485	4,951	5,087	3,289	5,348	2,433	4,429	1,993	5,056	13.2
Windows that Open	28,937	1,918	5,787	5,388	2,729	4,108	2,112	2,617	1,242	3,034	14.2

See footnotes at end of table.

Table A5. Census Region and Division, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Census Region and Division									RSE Row Factor
		Northeast		Midwest		South			West		
		New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific	
RSE Column Factor:	0.4	1.5	1.1	0.8	1.2	0.9	1.1	1.3	1.3	0.9	
HVAC Conservation Features (more than one may apply)											
Variable Air-Volume System	13,970	993	2,154	2,657	1,515	1,448	433	Q	710	2,197	18.9
Economizer Cycle	18,313	976	3,134	3,080	2,491	2,204	894	Q	1,197	2,256	16.9
HVAC Maintenance	49,173	2,811	7,823	7,809	4,928	7,614	3,290	5,601	2,725	6,572	10.6
Lighting Conservation Features (more than one may apply)											
Specular Reflectors	15,241	852	2,985	2,266	1,751	2,328	1,023	898	613	2,525	16.8
Natural Lighting Control											
Sensors	3,072	218	409	795	Q	383	Q	Q	216	450	25.6
Occupancy Sensors	3,629	252	622	468	Q	305	Q	367	Q	905	23.3
Time Clock	12,104	848	1,836	1,752	640	1,782	368	Q	751	2,511	21.8
Manual Dimmer Switches	12,329	814	2,213	2,719	1,058	1,593	542	862	713	1,816	20.1
Other	2,596	188	428	375	Q	231	Q	163	379	456	26.7
Energy Conservation Features (more than one may apply)											
Any Conservation Features	64,403	3,211	9,680	10,368	6,251	10,152	4,804	7,703	3,560	8,674	10.8
Building Shell	62,056	3,171	9,441	10,138	5,892	9,648	4,597	7,513	3,428	8,227	11.0
HVAC	50,281	2,887	7,954	8,087	5,012	7,854	3,379	5,631	2,814	6,663	10.4
Lighting	29,453	1,709	5,018	5,076	2,714	3,840	1,579	2,888	1,878	4,750	14.8
Other	5,952	441	1,185	1,136	439	871	168	718	401	593	22.1
Energy Management Practices (more than one may apply)											
Energy Management and Control System	14,320	859	1,615	2,768	1,591	1,805	666	2,036	831	2,149	20.1
Demand-Side Management Participation	11,310	922	2,513	2,045	1,234	1,582	290	729	432	1,562	19.0
Energy Audit	14,779	1,041	3,095	2,530	1,413	1,671	763	1,376	537	2,353	14.3
Building Energy Manager	2,311	Q	210	340	Q	267	Q	499	Q	280	34.1
Demand-Side Management Programs (more than one may apply)											
Building Shell Program	1,079	Q	Q	341	Q	225	Q	Q	Q	153	34.3
HVAC Program	6,370	405	981	1,119	869	1,155	186	436	278	942	23.3
Lighting Program	8,805	832	2,182	1,721	899	1,056	158	527	315	1,116	22.3
Other DSM Programs	6,176	427	1,374	980	839	1,100	Q	456	Q	828	23.5

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A6. Climate Zone, Number of Buildings and Floorspace, 1992

Building Characteristics	Number of Buildings (thousand)						Total Floorspace (million square feet)						RSE Row Factor
	Average Annual Heating and Cooling Degree-Days (HDD and CDD)						Average Annual Heating and Cooling Degree-Days (HDD and CDD)						
	Fewer than 2,000 CDD and --					More than 2,000 CDD and Fewer than 4,000 HDD	Fewer than 2,000 CDD and --					More than 2,000 CDD and Fewer than 4,000 HDD	
	All Buildings	More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		All Buildings	More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.5	1.0	1.3	1.2	1.1	0.5	1.5	0.9	1.1	1.2	1.2	
All Buildings	4,806	399	1,134	1,077	1,101	1,095	67,876	5,623	18,024	16,162	15,251	12,816	10.3
Building Floorspace (square feet)													
1,001 to 5,000	2,681	203	588	631	613	647	7,327	583	1,651	1,718	1,595	1,780	13.6
5,001 to 10,000	975	93	250	191	227	213	7,199	703	1,827	1,406	1,659	1,604	12.1
10,001 to 25,000	647	64	155	143	142	143	10,375	1,072	2,547	2,231	2,291	2,234	12.5
25,001 to 50,000	280	20	77	59	69	56	10,069	695	2,816	2,128	2,456	1,974	13.9
50,001 to 100,000	116	11	35	23	24	22	8,062	819	2,462	1,564	1,709	1,508	14.1
100,001 to 200,000	71	3	20	20	20	8	9,678	479	2,615	2,772	2,714	1,098	19.1
200,001 to 500,000	26	3	7	8	5	3	7,889	981	1,966	2,564	1,570	808	19.5
Over 500,000	9	Q	2	2	2	Q	7,278	Q	2,140	1,779	1,258	Q	31.4
Principal Building Activity													
Education	301	9	50	51	105	86	8,470	592	2,614	2,079	1,849	1,336	15.6
Food Sales	130	Q	24	30	31	36	757	Q	183	171	150	177	28.1
Food Service	260	Q	71	60	58	51	1,491	Q	514	376	273	238	16.9
Health Care	63	Q	19	7	23	10	1,763	Q	531	267	614	198	25.9
Lodging	154	21	25	28	36	44	2,891	348	678	333	682	850	21.4
Mercantile and Service	1,272	104	343	319	259	246	12,402	1,201	3,491	3,166	2,301	2,244	14.5
Office	749	58	179	138	183	190	12,319	711	3,405	3,411	2,869	1,923	12.7
Parking Garage	24	Q	9	8	1	Q	1,652	Q	399	519	189	Q	41.8
Public Assembly	278	34	58	75	54	56	4,556	419	944	856	770	Q	20.9
Public Order and Safety	60	Q	16	17	Q	Q	820	Q	194	279	Q	Q	39.0
Religious Worship	366	19	59	117	93	78	3,747	Q	900	981	977	528	21.8
Warehouse and Storage	761	80	186	153	162	180	11,484	923	2,767	2,609	2,904	2,282	17.3
Other	69	Q	18	14	9	15	1,130	Q	316	234	206	253	33.4
Vacant	319	16	76	60	74	93	4,396	237	1,089	882	1,353	835	21.2
Year Constructed													
1899 or Before	169	19	88	43	Q	Q	1,721	223	835	524	Q	Q	24.1
1900 to 1919	255	42	94	68	Q	39	3,608	480	1,411	1,021	Q	256	23.4
1920 to 1945	724	60	232	158	145	129	8,712	694	3,063	2,304	1,625	1,027	16.5
1946 to 1959	880	65	184	190	210	230	10,421	831	2,672	2,832	2,117	1,969	14.9
1960 to 1969	783	57	159	177	219	170	12,612	842	2,815	3,363	2,990	2,602	14.5
1970 to 1979	982	95	208	205	242	231	14,014	1,531	3,619	2,825	3,656	2,382	13.9
1980 to 1989	884	57	136	197	230	263	14,287	922	2,926	2,725	3,634	4,080	15.2
1990 to 1992	128	Q	32	38	34	21	2,502	Q	681	569	736	415	25.3
Census Region													
Northeast	771	Q	444	264	Q	Q	13,400	Q	6,924	5,634	Q	Q	14.2
Midwest	1,202	277	585	339	Q	Q	17,280	4,081	9,401	3,799	Q	Q	14.9
South	1,963	Q	Q	396	591	976	24,577	Q	Q	4,981	8,226	11,371	16.7
West	870	Q	104	78	510	119	12,619	Q	1,699	1,748	7,026	1,446	17.9
Energy Sources (more than one may apply)													
Electricity	4,616	382	1,089	1,039	1,058	1,048	66,549	5,476	17,730	15,965	14,878	12,501	10.2
Natural Gas	2,665	228	766	481	649	541	45,097	3,685	13,771	10,517	11,017	6,107	11.0
Fuel Oil	559	80	184	211	Q	32	13,218	1,551	4,208	4,009	2,191	1,259	18.2
District Heat	95	10	29	27	13	16	5,339	513	1,944	1,706	595	581	19.7
District Chilled Water	28	Q	5	4	10	9	2,066	Q	574	526	437	467	31.9
Propane	337	34	70	105	88	41	3,393	481	716	869	646	682	27.5
Any Other	163	Q	41	62	32	Q	1,551	Q	371	715	259	Q	28.6

See footnotes at end of table.

Table A6. Climate Zone, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)						Total Floorspace (million square feet)						RSE Row Factor	
	All Buildings	Average Annual Heating and Cooling Degree-Days (HDD and CDD)					All Buildings	Average Annual Heating and Cooling Degree-Days (HDD and CDD)						
		Fewer than 2,000 CDD and --						More than 2,000 CDD and Fewer than 4,000 HDD	Fewer than 2,000 CDD and --					More than 2,000 CDD and Fewer than 4,000 HDD
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD				More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.5	1.0	1.3	1.2	1.1	0.5	1.5	0.9	1.1	1.2	1.2		
Energy End Uses (more than one may apply)														
Heated Buildings	4,178	344	1,018	959	955	903	61,996	5,218	17,196	14,966	13,537	11,079	10.5	
Air-Conditioned Buildings	3,502	229	766	753	838	915	57,041	4,267	14,977	13,549	12,870	11,379	10.4	
Buildings with Water Heating	3,502	298	892	815	770	726	58,479	4,956	16,377	14,359	12,791	9,996	10.3	
Buildings with Cooking	734	65	198	181	158	133	23,065	1,754	6,781	5,847	4,695	3,989	13.6	
Buildings with Manufacturing	121	19	36	23	20	23	3,174	315	1,254	490	468	647	23.1	
Predominant Exterior Wall Material														
Masonry	3,115	220	761	699	736	699	48,585	3,954	13,796	11,456	10,366	9,013	10.5	
Siding or Shingles	764	79	210	200	136	140	3,873	548	1,141	942	619	623	18.1	
Metal Panels	745	84	128	147	187	200	7,392	577	1,183	2,163	1,685	1,784	17.9	
Concrete Panels	87	Q	13	9	27	32	4,961	403	1,020	1,081	1,627	830	22.7	
Window Glass	46	Q	11	Q	10	13	2,028	Q	640	318	604	411	30.8	
Other	47	Q	10	13	Q	Q	1,037	Q	244	202	Q	Q	38.2	
Predominant Roof Material														
Built-Up	1,642	116	358	304	417	447	30,257	1,780	7,699	6,191	7,820	6,767	11.1	
Shingles (Not Wood)	1,381	110	370	383	276	242	10,570	1,042	3,341	2,723	2,072	1,392	15.0	
Metal Surfacing	1,037	94	178	224	257	285	9,019	832	1,343	1,831	2,384	2,628	17.1	
Synthetic or Rubber	386	40	163	90	57	36	11,702	1,340	4,131	4,012	1,479	739	15.6	
Slate or Tile	155	Q	36	28	49	34	1,998	Q	538	378	566	361	23.4	
Concrete	37	Q	5	6	6	17	2,544	Q	706	399	469	705	39.5	
Other	167	29	24	40	39	35	1,786	Q	265	627	462	225	25.2	
Floors														
One	3,007	195	519	599	810	884	25,424	1,504	4,664	4,264	7,086	7,907	13.6	
Two	1,154	126	332	310	215	170	18,025	1,888	5,118	4,644	3,800	2,575	12.2	
Three	446	54	203	109	52	27	9,877	1,023	3,800	2,260	1,942	851	15.4	
Four to Nine	186	23	76	54	20	13	10,377	1,070	3,276	3,552	1,383	1,096	19.2	
Ten or More	13	Q	3	5	4	Q	4,173	Q	1,166	1,443	1,040	387	25.9	
Percent Window Glass														
25 or Less	4,193	357	987	936	954	959	51,356	4,568	12,614	11,830	11,736	10,608	10.9	
26 to 50	490	36	114	111	123	106	11,815	880	3,745	3,193	2,549	1,448	14.4	
51 to 75	94	Q	27	27	18	16	3,206	Q	1,057	877	757	418	22.5	
76 to 100	29	Q	5	3	5	14	1,499	Q	608	262	209	342	30.1	
Workers (main shift)														
Less than 5	2,718	212	635	634	604	633	17,944	1,493	4,098	4,177	3,893	4,284	15.6	
5 to 9	895	87	207	185	198	218	7,524	782	1,767	1,654	1,477	1,845	12.3	
10 to 19	561	48	124	131	127	132	8,077	850	1,796	2,147	1,534	1,749	15.8	
20 to 49	405	32	101	81	114	76	10,556	757	2,974	1,963	2,924	1,938	12.9	
50 to 99	130	12	41	25	30	22	7,763	644	2,761	1,617	1,642	1,100	17.5	
100 to 249	64	6	16	11	21	10	7,378	681	2,119	1,864	1,835	878	17.8	
250 or More	31	2	9	9	7	4	8,633	415	2,509	2,741	1,946	1,022	17.8	

See footnotes at end of table.

Table A6. Climate Zone, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)						Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	Average Annual Heating and Cooling Degree-Days (HDD and CDD)					All Buildings	Average Annual Heating and Cooling Degree-Days (HDD and CDD)					
		Fewer than 2,000 CDD and --						Fewer than 2,000 CDD and --					
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD	More than 2,000 CDD and Fewer than 4,000 HDD		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD	More than 2,000 CDD and Fewer than 4,000 HDD	
RSE Column Factor:	0.4	1.5	1.0	1.3	1.2	1.1	0.5	1.5	0.9	1.1	1.2	1.2	
Weekly Operating Hours													
39 or Fewer	1,039	85	219	284	215	236	8,246	735	1,962	2,131	1,929	1,489	17.7
40 to 48	1,278	91	297	244	319	327	14,998	979	3,868	3,045	3,879	3,226	13.0
49 to 60	1,004	69	264	221	235	214	14,046	935	3,903	3,742	3,111	2,356	12.9
61 to 84	645	68	162	146	139	128	12,062	984	3,858	2,594	2,545	2,081	12.4
85 to 167	478	51	122	106	103	96	8,467	1,034	2,003	2,667	1,820	944	15.4
Open Continuously	362	34	70	75	89	94	10,057	956	2,429	1,983	1,968	2,721	18.1
Percent Vacant for at Least Three Months													
0-25 Percent	4,153	347	992	946	952	916	58,566	4,906	15,648	14,318	12,728	10,966	10.4
26-50 Percent	157	16	52	30	27	33	2,939	242	1,014	459	565	659	22.1
51-75 Percent	62	Q	13	14	12	18	1,140	Q	217	260	425	177	29.5
76-100 Percent	434	31	76	87	111	129	5,231	414	1,145	1,125	1,532	1,015	19.3
Ownership and Occupancy													
Nongovernment Owned	4,206	353	1,001	962	939	951	52,752	4,274	13,971	12,096	11,955	10,456	10.4
Owner Occupied	3,192	291	812	733	686	670	38,403	3,265	11,145	8,582	8,781	6,630	10.4
Nonowner Occupied	817	53	151	187	211	216	12,273	856	2,429	3,034	2,628	3,325	15.3
Unoccupied	197	Q	39	43	42	64	2,077	Q	397	481	546	501	22.5
Government Owned	599	46	133	114	162	144	15,124	1,349	4,053	4,066	3,296	2,360	15.8
Number of Establishments													
One	3,886	317	916	873	908	871	47,997	4,213	12,576	10,792	11,193	9,223	11.6
2 to 5	517	52	141	119	101	104	7,882	541	2,104	2,268	1,588	1,381	15.1
6 to 10	89	12	13	20	24	21	2,562	296	566	558	588	554	22.9
11 to 20	49	Q	11	8	12	14	2,039	Q	684	361	326	562	30.5
More than 20	36	Q	6	10	7	11	4,938	Q	1,620	1,525	962	521	30.3
Currently Unoccupied	229	Q	47	47	50	75	2,457	Q	474	658	594	575	23.4
Percent of Floorspace Heated													
Not Heated	653	59	125	122	152	196	6,211	453	905	1,376	1,725	1,751	18.4
1 to 50	688	45	153	149	169	171	11,195	607	2,423	2,794	2,987	2,384	17.7
51 to 99	618	55	159	122	130	153	10,211	810	2,786	2,132	2,395	2,088	14.8
100	2,846	240	697	684	651	575	40,260	3,753	11,910	9,859	8,145	6,593	11.1
Percent of Floorspace Cooled													
Not Cooled	1,304	170	368	324	263	180	10,835	1,356	3,047	2,613	2,382	1,437	15.4
1 to 50	1,176	95	304	279	231	266	21,715	1,969	6,800	5,670	4,008	3,268	12.8
51 to 99	658	57	180	143	132	146	13,872	919	4,304	3,537	2,871	2,241	13.9
100	1,668	77	282	332	475	503	21,454	1,379	3,872	4,342	5,991	5,870	12.8
Percent Lit when Open													
Not Lit	413	32	98	96	84	103	3,280	277	686	857	798	662	21.4
1 to 50	881	82	241	203	154	201	9,980	935	2,646	2,618	2,074	1,707	14.4
51 to 99	813	72	234	197	156	153	14,224	1,016	4,587	2,979	2,760	2,882	14.4
100	2,699	212	561	582	706	638	40,393	3,395	10,105	9,708	9,620	7,565	10.8

See footnotes at end of table.

Table A6. Climate Zone, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)						Total Floorspace (million square feet)						RSE Row Factor	
	All Buildings	Average Annual Heating and Cooling Degree-Days (HDD and CDD)					All Buildings	Average Annual Heating and Cooling Degree-Days (HDD and CDD)						
		Fewer than 2,000 CDD and --						More than 2,000 CDD and Fewer than 4,000 HDD	Fewer than 2,000 CDD and --					More than 2,000 CDD and Fewer than 4,000 HDD
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD	More than 4,000 HDD			More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 4,999 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.5	1.0	1.3	1.2	1.1	0.5	1.5	0.9	1.1	1.2	1.2		
Heating Equipment (more than one may apply)														
Heat Pumps	449	12	31	127	148	131	8,269	437	1,282	2,459	2,501	1,590	19.5	
Furnaces	1,692	162	525	459	294	251	16,909	1,920	5,075	4,763	3,217	1,935	13.7	
Individual Space Heaters	1,464	134	352	331	345	302	22,380	1,736	6,624	5,781	4,508	3,730	13.3	
District Heat	93	10	28	27	13	15	5,225	513	1,900	1,692	560	560	19.9	
Boilers	624	99	272	156	61	36	20,664	2,118	7,706	5,136	3,341	2,363	14.7	
Packaged Heating Units	870	31	125	97	297	319	16,000	609	3,756	2,987	4,836	3,812	13.7	
Other	42	Q	11	Q	Q	Q	903	Q	277	Q	Q	Q	36.1	
Cooling Equipment (more than one may apply)														
Residential-Type Central Air														
Conditioners	816	54	224	198	139	203	9,021	804	2,889	2,037	1,492	1,798	15.3	
Heat Pumps	454	12	36	129	149	128	8,406	487	1,393	2,425	2,565	1,536	19.0	
Individual Air														
Conditioners	1,023	93	279	257	166	228	17,979	1,572	5,670	5,140	2,446	3,151	16.2	
District Chilled Water	28	Q	5	4	10	9	2,066	Q	574	526	437	467	31.9	
Central Chillers	142	11	40	29	38	25	12,991	843	3,647	2,771	3,180	2,550	17.9	
Packaged Air-Conditioning														
Units	1,459	90	312	253	398	405	27,830	1,779	7,396	6,302	6,966	5,386	11.3	
Swamp Coolers	179	Q	33	Q	71	60	2,085	Q	477	Q	532	753	35.6	
Other	8	Q	Q	Q	Q	Q	268	Q	Q	Q	Q	Q	88.8	
Lighting Equipment Types (more than one may apply)														
Incandescent	2,509	246	634	602	511	516	39,221	3,400	11,517	10,349	7,835	6,120	10.8	
Standard Fluorescent	4,065	341	986	898	925	915	62,074	5,206	17,006	14,639	13,537	11,685	10.2	
Compact Fluorescent	206	23	68	41	39	35	8,336	888	2,743	2,282	1,476	946	16.6	
High-Intensity Discharge	354	32	104	64	61	93	17,570	1,807	5,961	4,329	2,975	2,498	13.8	
Other	78	Q	14	13	34	16	1,612	Q	387	413	449	329	30.7	
Building Shell Conservation Features (more than one may apply)														
Roof or Ceiling Insulation														
.....	3,343	308	790	780	735	730	50,311	4,409	13,460	12,134	11,195	9,113	11.2	
Wall Insulation														
.....	2,320	217	541	550	527	485	33,240	2,788	9,331	7,435	7,580	6,107	12.5	
Storm or Multiple Glazing														
.....	1,680	219	599	492	219	151	29,684	3,624	10,811	7,523	4,474	3,252	14.2	
Tinted, Reflective or Shading Glass														
.....	1,068	61	215	211	288	294	25,396	1,359	6,910	5,306	6,263	5,558	13.5	
Exterior or Interior Shading or Awnings														
.....	1,853	134	416	405	442	456	34,071	2,554	8,949	7,738	7,781	7,049	11.7	
Windows that Open	2,119	204	547	548	425	395	28,937	2,563	8,617	8,275	5,363	4,119	12.6	
HVAC Conservation Features (more than one may apply)														
Variable Air-Volume System	250	21	78	46	70	34	13,970	1,102	4,442	3,268	2,897	2,261	16.6	
Economizer Cycle	414	45	131	103	89	47	18,313	1,725	5,772	4,837	3,551	2,429	15.0	
HVAC Maintenance	2,503	210	641	552	571	528	49,173	3,977	13,951	11,867	10,861	8,517	10.9	

See footnotes at end of table.

Table A6. Climate Zone, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)						Total Floorspace (million square feet)						RSE Row Factor	
	All Buildings	Average Annual Heating and Cooling Degree-Days (HDD and CDD)					All Buildings	Average Annual Heating and Cooling Degree-Days (HDD and CDD)						
		Fewer than 2,000 CDD and --						More than 2,000 CDD and Fewer than 4,000 HDD	Fewer than 2,000 CDD and --					More than 2,000 CDD and Fewer than 4,000 HDD
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD	More than 7,000 HDD			5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD			
RSE Column Factor:	0.4	1.5	1.0	1.3	1.2	1.1	0.5	1.5	0.9	1.1	1.2	1.2		
Lighting Conservation Features (more than one may apply)														
Specular Reflectors	574	53	160	123	124	114	15,241	1,406	4,391	4,234	3,298	1,912	16.2	
Natural Lighting Control														
Sensors	74	Q	25	14	11	17	3,072	Q	1,148	897	411	357	24.3	
Occupancy Sensors	59	Q	17	9	21	7	3,629	Q	912	971	1,054	459	21.4	
Time Clock	339	27	96	72	82	63	12,104	748	3,271	2,508	3,097	2,480	17.8	
Manual Dimmer Switches	413	47	133	89	75	69	12,329	1,208	3,890	3,388	2,457	1,386	16.0	
Other	78	9	30	14	20	6	2,596	362	962	516	583	173	23.8	
Energy Conservation Features (more than one may apply)														
Any Conservation Features	4,357	363	1,042	1,010	963	978	64,403	5,349	17,513	15,589	14,151	11,801	10.5	
Building Shell	4,223	357	1,014	989	926	937	62,056	4,980	17,049	15,194	13,451	11,381	10.7	
HVAC	2,604	223	665	582	590	543	50,281	4,116	14,291	12,234	10,983	8,658	10.8	
Lighting	1,178	115	351	241	243	229	29,453	2,760	8,847	6,941	6,283	4,622	12.4	
Other	264	24	88	54	53	43	5,952	354	2,381	1,394	925	897	18.4	
Energy Management Practices (more than one may apply)														
Energy Management and Control														
System	236	20	73	47	64	31	14,320	1,095	4,675	2,850	2,980	2,720	15.7	
Demand-Side Management														
Participation	315	56	94	66	69	30	11,310	1,562	3,757	2,670	2,056	1,265	15.3	
Energy Audit	521	53	162	91	126	89	14,779	1,318	4,727	3,325	3,361	2,049	13.3	
Building Energy Manager	49	Q	10	5	15	13	2,311	Q	564	393	569	662	30.3	
Demand-Side Management Programs (more than one may apply)														
Building Shell Program	36	Q	12	9	8	Q	1,079	Q	431	248	226	Q	32.1	
HVAC Program	154	19	41	37	37	19	6,370	727	2,103	1,291	1,400	849	18.3	
Lighting Program	228	50	74	40	44	20	8,805	1,427	2,930	2,165	1,326	957	18.2	
Other DSM Programs	110	Q	26	25	22	16	6,176	900	1,557	1,726	1,156	838	20.1	

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A7. Metropolitan Status, Number of Buildings Floorspace, 1992

Building Characteristics	Number of Buildings (thousand)			Total Floorspace (million square feet)			RSE Row Factor
	All Buildings	Metropolitan	Non-metropolitan	All Buildings	Metropolitan	Non-metropolitan	
	0.7	0.8	1.5	0.8	0.8	1.9	
RSE Column Factor:							
All Buildings	4,806	3,085	1,721	67,876	52,691	15,185	4.9
Building Floorspace (square feet)							
1,001 to 5,000	2,681	1,560	1,121	7,327	4,328	2,999	6.6
5,001 to 10,000	975	654	321	7,199	4,885	2,314	4.9
10,001 to 25,000	647	470	178	10,375	7,548	2,827	6.5
25,001 to 50,000	280	213	68	10,069	7,657	2,412	9.0
50,001 to 100,000	116	99	17	8,062	6,901	1,161	8.6
100,001 to 200,000	71	58	12	9,678	7,981	1,696	12.9
200,001 to 500,000	26	24	2	7,889	7,215	674	14.8
Over 500,000	9	7	Q	7,278	6,175	Q	22.5
Principal Building Activity							
Education	301	215	85	8,470	6,578	1,892	9.6
Food Sales	130	88	42	757	554	203	18.8
Food Service	260	188	72	1,491	1,115	376	11.4
Health Care	63	51	12	1,763	1,340	422	18.7
Lodging	154	101	53	2,891	2,291	600	13.9
Mercantile and Service	1,272	806	466	12,402	9,656	2,746	8.1
Office	749	546	203	12,319	11,146	1,172	7.8
Parking Garage	24	16	Q	1,652	1,627	Q	33.4
Public Assembly	278	170	108	4,556	2,702	Q	12.7
Public Order and Safety	60	40	20	820	592	228	26.2
Religious Worship	366	173	193	3,747	2,391	1,356	13.5
Warehouse and Storage	761	463	299	11,484	8,456	3,028	10.1
Other	69	37	32	1,130	916	214	20.2
Vacant	319	190	129	4,396	3,327	1,069	12.0
Year Constructed							
1899 or Before	169	82	87	1,721	994	726	15.0
1900 to 1919	255	138	117	3,608	2,545	1,063	15.4
1920 to 1945	724	478	246	8,712	6,710	2,002	10.4
1946 to 1959	880	593	287	10,421	7,836	2,585	9.0
1960 to 1969	783	524	260	12,612	10,268	2,344	9.1
1970 to 1979	982	618	364	14,014	11,128	2,886	7.1
1980 to 1989	884	580	304	14,287	11,095	3,192	9.8
1990 to 1992	128	73	55	2,502	2,115	387	15.8
Census Region							
Northeast	771	605	166	13,400	11,710	1,690	10.0
Midwest	1,202	647	555	17,280	12,654	4,626	8.7
South	1,963	1,146	817	24,577	17,159	7,419	8.0
West	870	687	183	12,619	11,168	1,451	12.8
Energy Sources (more than one may apply)							
Electricity	4,616	2,981	1,635	66,549	51,781	14,768	4.9
Natural Gas	2,665	1,819	846	45,097	36,933	8,164	6.1
Fuel Oil	559	341	217	13,218	11,012	2,206	10.8
District Heat	95	77	18	5,339	4,792	546	15.9
District Chilled Water	28	23	5	2,066	1,774	Q	23.4
Propane	337	151	186	3,393	2,112	1,281	15.6
Any Other	163	64	99	1,551	971	580	18.0
Energy End Uses (more than one may apply)							
Heated Buildings	4,178	2,719	1,459	61,996	48,889	13,107	5.0
Air-Conditioned Buildings	3,502	2,348	1,154	57,041	45,722	11,319	5.4
Buildings with Water Heating	3,502	2,374	1,128	58,479	46,707	11,772	5.3
Buildings with Cooking	734	493	241	23,065	18,382	4,683	8.6
Buildings with Manufacturing	121	92	29	3,174	2,792	382	17.9

See footnotes at end of table.

Table A7. Metropolitan Status, Number of Buildings Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)			Total Floorspace (million square feet)			RSE Row Factor
	All Buildings	Metropolitan	Non-metropolitan	All Buildings	Metropolitan	Non-metropolitan	
	0.7	0.8	1.5	0.8	0.8	1.9	
Climate Zone: 45-Year Average							
Fewer than 2,000 CDD and --							
More than 7,000 HDD	399	159	240	5,623	3,098	2,525	17.7
5,500-7,000 HDD	1,134	785	348	18,024	14,765	3,259	13.2
4,000-5,499 HDD	1,077	580	497	16,162	12,578	3,584	15.9
Fewer than 4,000 HDD	1,101	793	Q	15,251	12,585	Q	15.8
More than 2,000 CDD and --							
Fewer than 4,000 HDD	1,095	767	328	12,816	9,666	3,151	15.3
Predominant Exterior Wall Material							
Masonry	3,115	2,126	990	48,585	38,188	10,397	5.5
Siding or Shingles	764	425	339	3,873	2,342	1,531	8.5
Metal Panels	745	393	352	7,392	4,614	2,778	10.6
Concrete Panels	87	86	Q	4,961	4,843	Q	16.7
Window Glass	46	35	Q	2,028	1,877	Q	21.9
Other	47	20	Q	1,037	827	Q	28.6
Predominant Roof Material							
Built-Up	1,642	1,176	466	30,257	24,318	5,940	6.8
Shingles (Not Wood)	1,381	843	538	10,570	7,576	2,994	7.3
Metal Surfacing	1,037	530	507	9,019	5,318	3,701	8.8
Synthetic or Rubber	386	262	123	11,702	9,850	1,852	9.2
Slate or Tile	155	132	23	1,998	1,747	252	17.4
Concrete	37	35	Q	2,544	2,539	Q	30.4
Other	167	106	61	1,786	1,344	442	18.1
Floors							
One	3,007	1,875	1,132	25,424	17,637	7,788	7.4
Two	1,154	751	403	18,025	14,320	3,705	5.9
Three	446	305	141	9,877	7,949	1,928	9.1
Four to Nine	186	142	45	10,377	8,648	1,730	13.4
Ten or More	13	13	Q	4,173	4,138	Q	19.6
Percent Window Glass							
25 or Less	4,193	2,626	1,567	51,356	38,226	13,130	5.3
26 to 50	490	357	133	11,815	10,039	1,776	7.6
51 to 75	94	77	17	3,206	2,997	209	17.5
76 to 100	29	25	Q	1,499	1,429	Q	24.3
Building Shape							
Square	280	216	65	3,654	3,172	482	10.2
Rectangle	3,659	2,311	1,349	39,233	30,086	9,147	5.1
Rectangle or Square with Courtyard	48	37	Q	1,372	1,244	Q	23.6
Right Angle	333	215	118	6,071	4,798	1,273	8.7
Other	485	306	179	17,547	13,392	4,155	10.2
Workers (main shift)							
Less than 5	2,718	1,546	1,172	17,944	11,288	6,656	8.1
5 to 9	895	616	280	7,524	5,160	2,365	6.7
10 to 19	561	405	157	8,077	5,841	2,236	9.5
20 to 49	405	318	86	10,556	8,641	1,916	8.2
50 to 99	130	111	19	7,763	6,736	1,028	12.1
100 to 249	64	60	5	7,378	6,908	469	13.2
250 or More	31	29	2	8,633	8,117	516	13.5
Weekly Operating Hours							
39 or Fewer	1,039	519	520	8,246	5,409	2,838	8.8
40 to 48	1,278	833	445	14,998	11,050	3,948	7.0
49 to 60	1,004	681	323	14,046	11,122	2,924	6.9
61 to 84	645	465	179	12,062	10,525	1,537	7.4
85 to 167	478	326	152	8,467	6,984	1,483	9.8
Open Continuously	362	260	102	10,057	7,601	2,456	12.8

See footnotes at end of table.

Table A7. Metropolitan Status, Number of Buildings Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)			Total Floorspace (million square feet)			RSE Row Factor
	All Buildings	Metropolitan	Non-metropolitan	All Buildings	Metropolitan	Non-metropolitan	
	0.7	0.8	1.5	0.8	0.8	1.9	
RSE Column Factor:							
Additional Operating Hours for Equipment Use							
Heating and/or Cooling	1,223	721	501	20,300	15,889	4,411	8.3
Lighting	633	418	216	12,886	10,722	2,165	9.9
Heating and/or Cooling and Lighting	371	251	120	8,717	7,401	1,316	13.7
No Additional Hours	3,320	2,197	1,124	43,407	33,482	9,925	6.8
Percent Vacant for at Least Three Months							
1-50 Percent	362	261	100	12,420	10,890	1,530	9.1
51-99 Percent	97	59	39	2,263	1,906	356	18.5
100 Percent	398	250	148	4,109	3,138	970	11.3
None	3,948	2,515	1,433	49,085	36,757	12,328	5.4
Ownership and Occupancy							
Nongovernment Owned	4,206	2,710	1,496	52,752	41,030	11,722	5.0
Owner Occupied	3,192	2,018	1,174	38,403	29,771	8,632	4.6
Nonowner Occupied	817	567	250	12,273	9,649	2,624	10.9
Unoccupied	197	125	72	2,077	1,610	467	14.5
Government Owned	599	374	225	15,124	11,661	3,463	9.1
Number of Establishments							
One	3,886	2,451	1,435	47,997	35,446	12,552	5.8
2 to 5	517	356	161	7,882	6,671	1,210	8.3
6 to 10	89	67	22	2,562	2,126	437	14.8
11 to 20	49	40	Q	2,039	1,833	Q	21.3
More than 20	36	27	Q	4,938	4,717	Q	21.0
Currently Unoccupied	229	144	84	2,457	1,899	559	14.7
Energy-Related Space Functions (more than one may apply)							
Commercial Food Preparation	735	493	242	22,166	18,379	3,788	7.8
Computer Room	223	176	47	14,199	12,738	1,461	10.9
Rooms with Special Ventilation	236	162	74	8,042	6,569	1,473	10.2
Activity with Large Amounts of Hot Water	203	151	53	6,862	5,900	962	10.4
Multibuilding Facility							
Part of Multibuilding Facility	1,667	1,093	574	31,564	24,643	6,921	7.6
with Central Physical Plant	223	163	60	8,395	7,175	1,220	13.9
No Central Physical Plant	1,444	930	514	23,170	17,468	5,702	8.2
Not on Multibuilding Facility	3,139	1,992	1,147	36,312	28,048	8,264	4.8
Percent of Floorspace Heated							
Not Heated	653	387	266	6,211	4,097	2,114	11.6
1 to 50	688	431	257	11,195	9,087	2,108	8.8
51 to 99	618	400	218	10,211	8,290	1,920	8.3
100	2,846	1,867	980	40,260	31,217	9,043	5.6
Percent of Floorspace Cooled							
Not Cooled	1,304	737	567	10,835	6,969	3,866	8.2
1 to 50	1,176	773	403	21,715	17,363	4,352	6.4
51 to 99	658	453	205	13,872	11,888	1,984	8.3
100	1,668	1,122	546	21,454	16,471	4,983	7.7
Percent Lit when Open							
Not Lit	413	222	191	3,280	2,332	947	12.6
1 to 50	881	522	359	9,980	6,707	3,273	8.1
51 to 99	813	544	269	14,224	10,559	3,664	8.8
100	2,699	1,797	902	40,393	33,093	7,300	5.8

See footnotes at end of table.

Table A7. Metropolitan Status, Number of Buildings Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)			Total Floorspace (million square feet)			RSE Row Factor
	All Buildings	Metropolitan	Non-metropolitan	All Buildings	Metropolitan	Non-metropolitan	
	0.7	0.8	1.5	0.8	0.8	1.9	
Heating Equipment (more than one may apply)							
Heat Pumps	449	306	143	8,269	6,622	1,647	10.4
Furnaces	1,692	1,030	662	16,909	12,739	4,170	6.5
Individual Space Heaters	1,464	843	622	22,380	17,795	4,584	6.6
District Heat	93	76	18	5,225	4,699	525	16.3
Boilers	624	449	175	20,664	16,091	4,573	8.3
Packaged Heating Units	870	672	198	16,000	14,096	1,903	10.4
Other	42	31	Q	903	823	Q	26.8
Heating Distribution Equipment (more than one may apply)							
Radiators or Baseboards	473	331	142	13,263	10,461	2,802	8.2
Ducts for Heating	2,955	2,008	947	45,422	36,572	8,851	5.3
Heating Only	577	377	200	5,950	4,811	1,139	10.1
Heating and Cooling	2,378	1,631	747	39,472	31,760	7,712	5.7
Variable Air-Volume System	210	164	46	11,528	9,287	2,240	13.1
Fan Coil Units for Heating	99	58	40	5,474	4,462	1,013	13.0
Heating Only	78	42	36	3,569	2,845	724	15.9
Heating and Cooling	21	17	4	1,906	1,617	289	22.1
Individual Space Heaters	1,464	843	622	22,380	17,795	4,584	6.6
Other	181	104	77	3,310	2,527	783	15.1
Cooling Equipment (more than one may apply)							
Residential-Type Central Air Conditioners	816	485	331	9,021	6,565	2,456	9.1
Heat Pumps	454	306	147	8,406	6,641	1,765	10.1
Individual Air Conditioners	1,023	656	367	17,979	13,511	4,468	8.9
District Chilled Water	28	23	5	2,066	1,774	Q	23.4
Central Chillers	142	116	26	12,991	10,886	Q	12.4
Packaged Air-Conditioning Units	1,459	1,078	381	27,830	24,003	3,827	7.2
Swamp Coolers	179	131	Q	2,085	1,781	Q	25.7
Other	8	Q	Q	268	Q	Q	54.0
Cooling Distribution Equipment (more than one may apply)							
Ducts for Cooling	2,733	1,869	864	47,755	38,663	9,092	5.7
Cooling Only	355	238	117	8,283	6,902	1,381	10.3
Heating and Cooling	2,378	1,631	747	39,472	31,760	7,712	5.7
Variable Air-Volume System	221	179	42	12,430	10,197	2,233	12.7
Fan Coil Units for Cooling	56	44	12	3,875	3,414	Q	20.0
Cooling Only	35	28	Q	1,969	1,797	Q	28.2
Heating and Cooling	21	17	4	1,906	1,617	289	22.1
Individual Air Conditioners	1,023	656	367	17,979	13,511	4,468	8.9
Other	111	80	31	2,919	2,390	529	21.2
Lighting Equipment Types (more than one may apply)							
Incandescent	2,509	1,582	927	39,221	30,999	8,221	5.6
Standard Fluorescent	4,065	2,688	1,377	62,074	49,246	12,827	4.9
Compact Fluorescent	206	155	51	8,336	7,626	710	12.0
High Intensity Discharge	354	259	95	17,570	15,147	2,422	8.6
Other	78	62	Q	1,612	1,404	Q	23.1

See footnotes at end of table.

Table A7. Metropolitan Status, Number of Buildings Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)			Total Floorspace (million square feet)			RSE Row Factor
	All Buildings	Metropolitan	Non-metropolitan	All Buildings	Metropolitan	Non-metropolitan	
	0.7	0.8	1.5	0.8	0.8	1.9	
Personal Computers and/or Computer Terminals							
1 to 4	1,269	843	426	13,355	9,512	3,843	5.7
5 to 9	336	264	73	5,970	5,271	699	8.6
10 to 19	216	166	50	6,236	5,383	854	12.0
20 to 49	164	132	32	7,439	6,335	1,104	12.4
50 to 99	59	51	8	4,908	4,319	589	12.5
100 to 249	34	31	2	4,220	3,791	429	15.7
250 or More	19	17	Q	5,569	5,322	Q	17.9
Building Shell Conservation Features (more than one may apply)							
Roof or Ceiling Insulation	3,343	2,133	1,211	50,311	38,909	11,402	5.3
Wall Insulation	2,320	1,434	886	33,240	25,260	7,980	6.2
Storm or Multiple Glazing	1,680	1,009	671	29,684	22,088	7,596	7.3
Tinted, Reflective or Shading Glass	1,068	766	302	25,396	21,097	4,300	8.7
Exterior or Interior Shading or Awnings	1,853	1,275	578	34,071	27,056	7,016	6.7
Windows that Open	2,119	1,288	831	28,937	21,326	7,611	6.4
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	250	200	50	13,970	11,618	2,352	12.1
Economizer Cycle	414	297	117	18,313	15,338	2,975	10.9
HVAC Maintenance	2,503	1,810	693	49,173	40,338	8,835	5.8
Lighting Conservation Features (more than one may apply)							
Specular Reflectors	574	434	140	15,241	13,063	2,178	10.3
Natural Lighting-Control Sensors	74	61	Q	3,072	2,893	Q	15.7
Occupancy Sensors	59	55	Q	3,629	3,532	Q	13.2
Time Clock	339	268	70	12,104	10,086	Q	12.1
Manual Dimmer Switches	413	298	115	12,329	10,749	1,580	9.7
Other	78	60	18	2,596	2,235	361	17.4
Energy Conservation Features (more than one may apply)							
Any Conservation Features	4,357	2,839	1,518	64,403	50,638	13,765	5.2
Building Shell	4,223	2,723	1,500	62,056	48,436	13,620	5.3
HVAC	2,604	1,869	734	50,281	41,101	9,179	5.6
Lighting	1,178	876	302	29,453	24,591	4,862	8.1
Other	264	188	76	5,952	4,713	1,239	11.3
Energy Management Practices (more than one may apply)							
Energy Management and Control System	236	188	48	14,320	12,085	2,235	12.0
Demand-Side Management Participation	315	220	95	11,310	9,665	1,645	10.0
Energy Audit	521	376	146	14,779	12,870	1,909	8.2
HVAC Maintenance	2,503	1,810	693	49,173	40,338	8,835	5.8
Building Energy Manager	49	38	Q	2,311	2,140	Q	20.5

See footnotes at end of table.

Table A7. Metropolitan Status, Number of Buildings Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)			Total Floorspace (million square feet)			RSE Row Factor
	All Buildings	Metropolitan	Non-metropolitan	All Buildings	Metropolitan	Non-metropolitan	
	0.7	0.8	1.5	0.8	0.8	1.9	
Demand-Side Management Programs (more than one may apply)							
Building Shell Program	36	25	Q	1,079	943	Q	22.4
HVAC Program	154	99	54	6,370	5,280	1,090	11.5
Lighting Program	228	163	64	8,805	7,621	1,184	12.4
Other DSM Programs	110	75	35	6,176	5,447	729	15.3

Q = Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
 Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.
 Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A8. Building Size, Number of Buildings, 1992
(Thousand)

Building Characteristics	All Buildings	Buildings by Size								RSE Row Factor
		1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet	
RSE Column Factor:	0.5	0.7	0.8	0.8	1.0	1.1	1.3	1.4	2.2	
All Buildings	4,806	2,681	975	647	280	116	71	26	9	6.9
Principal Building Activity										
Education	301	112	43	57	40	30	12	6	Q	16.0
Food Sales	130	103	Q	Q	Q	Q	Q	Q	Q	23.1
Food Service	260	179	51	21	Q	Q	Q	Q	Q	18.7
Health Care	63	39	Q	Q	Q	Q	3	2	(*)	18.9
Lodging	154	56	39	26	21	7	3	1	Q	25.0
Mercantile and Service	1,272	807	265	127	40	18	10	2	2	13.9
Office	749	387	168	102	51	20	14	5	2	12.6
Parking Garage	24	Q	Q	Q	Q	Q	Q	2	Q	34.1
Public Assembly	278	137	62	53	16	6	Q	1	Q	19.7
Public Order and Safety	60	30	Q	Q	Q	Q	Q	Q	Q	38.1
Religious Worship	366	202	81	58	18	Q	Q	Q	Q	19.5
Warehouse and Storage	761	402	149	129	43	17	15	4	1	16.1
Other	69	39	Q	6	Q	Q	Q	Q	Q	34.7
Vacant	319	177	64	42	23	7	4	1	Q	20.8
Year Constructed										
1899 or Before	169	80	52	22	12	Q	Q	Q	Q	26.1
1900 to 1919	255	128	71	30	15	5	Q	Q	Q	22.7
1920 to 1945	724	415	151	97	36	14	9	2	1	17.2
1946 to 1959	880	511	174	111	50	18	11	3	(*)	15.1
1960 to 1969	783	435	135	118	50	23	17	5	1	14.0
1970 to 1979	982	558	201	116	62	25	12	6	2	12.2
1980 to 1989	884	487	167	134	46	25	16	5	Q	12.4
1990 to 1992	128	68	24	19	9	4	2	2	(*)	21.2
Census Region										
Northeast	771	383	180	109	54	25	12	5	2	13.3
Midwest	1,202	676	241	163	66	29	15	10	2	12.1
South	1,963	1,171	370	239	106	41	26	6	4	11.8
West	870	451	184	136	56	20	18	5	1	15.3
Energy Sources (more than one may apply)										
Electricity	4,616	2,539	954	628	275	114	70	25	9	6.9
Natural Gas	2,665	1,331	574	420	181	83	52	18	6	7.7
Fuel Oil	559	288	125	62	39	21	11	10	4	13.0
District Heat	95	18	11	28	16	10	6	5	1	23.0
District Chilled Water	28	Q	Q	8	9	Q	2	2	1	28.1
Propane	337	218	62	32	15	6	3	Q	Q	23.1
Any Other	163	99	41	Q	Q	Q	Q	Q	Q	23.3
Energy End Uses (more than one may apply)										
Heated Buildings	4,178	2,247	883	585	255	110	64	24	9	6.9
Air-Conditioned Buildings	3,502	1,792	758	519	236	103	59	24	9	7.0
Buildings with Water Heating	3,502	1,733	787	539	240	108	62	25	9	7.2
Buildings with Cooking	734	320	137	114	70	44	29	15	6	11.2
Buildings with Manufacturing	121	32	32	32	11	9	3	1	1	24.6
Predominant Exterior Wall Material										
Masonry	3,115	1,573	675	488	211	94	48	19	7	7.6
Siding or Shingles	764	595	105	48	13	Q	Q	Q	Q	16.8
Metal Panels	745	457	155	85	31	6	8	1	1	19.5
Concrete Panels	87	Q	14	20	16	11	8	4	1	21.5
Window Glass	46	Q	Q	Q	8	Q	2	1	1	24.8
Other	47	Q	Q	Q	Q	Q	Q	Q	Q	40.1

See footnotes at end of table.

Table A8. Building Size, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	Buildings by Size								RSE Row Factor
		1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet	
RSE Column Factor:	0.5	0.7	0.8	0.8	1.0	1.1	1.3	1.4	2.2	
Predominant Roof Material										
Built-Up	1,642	772	369	265	124	55	41	12	5	9.7
Shingles (Not Wood)	1,381	927	250	137	49	11	5	1	Q	14.4
Metal Surfacing	1,037	648	209	122	39	11	8	Q	Q	15.6
Synthetic or Rubber	386	140	79	75	39	30	11	10	2	13.6
Slate or Tile	155	75	38	25	12	4	Q	Q	Q	25.8
Concrete	37	Q	Q	Q	Q	Q	3	2	1	27.4
Other	167	108	29	15	11	Q	Q	Q	Q	28.8
Floors										
One	3,007	2,009	525	310	103	36	18	5	Q	10.7
Two	1,154	518	282	211	81	35	20	4	2	10.5
Three	446	133	121	100	54	22	11	4	1	13.8
Four to Nine	186	Q	47	26	42	21	18	10	1	17.3
Ten or More	13	Q	Q	Q	Q	Q	4	4	3	17.5
Percent Window Glass										
25 or Less	4,193	2,433	848	554	202	80	52	18	6	8.0
26 to 50	490	201	108	75	61	24	13	5	2	13.0
51 to 75	94	40	Q	12	12	9	4	2	(*)	19.4
76 to 100	29	Q	Q	Q	Q	Q	2	1	1	28.7
Building Shape										
Square	280	167	64	27	12	6	3	2	1	21.6
Rectangle	3,659	2,223	713	452	165	54	37	11	3	8.1
Rectangle or Square with Courtyard	48	Q	Q	Q	Q	6	Q	Q	Q	38.5
Right Angle	333	127	90	54	41	12	7	1	Q	17.1
Other	485	152	93	105	58	38	22	11	5	13.8
Workers (main shift)										
Less than 5	2,718	1,968	460	204	60	12	8	3	Q	13.2
5 to 9	895	514	218	115	37	8	3	Q	Q	14.2
10 to 19	561	160	195	144	43	10	7	Q	Q	15.7
20 to 49	405	34	94	153	84	28	10	2	Q	14.4
50 to 99	130	Q	Q	25	41	32	16	3	Q	14.5
100 to 249	64	Q	Q	Q	13	18	18	7	1	15.0
250 or More	31	Q	Q	Q	Q	7	9	9	4	12.4
Weekly Operating Hours										
39 or Fewer	1,039	688	188	107	37	14	Q	2	Q	15.9
40 to 48	1,278	687	293	183	70	25	16	4	(*)	11.2
49 to 60	1,004	519	216	156	71	20	17	4	1	12.1
61 to 84	645	324	146	87	41	24	16	4	2	12.4
85 to 167	478	281	69	64	31	17	10	5	1	15.4
Open Continuously	362	182	62	50	31	15	9	8	Q	15.3
Ownership and Occupancy										
Nongovernment Owned	4,206	2,423	861	540	228	82	50	16	7	7.6
Owner Occupied	3,192	1,859	660	396	169	57	38	11	4	8.2
Nonowner Occupied	817	437	167	126	47	22	11	5	Q	12.6
Unoccupied	197	127	34	18	12	Q	Q	Q	Q	25.9
Government Owned	599	258	114	108	53	34	21	10	2	12.3
Energy-Related Space Functions (more than one may apply)										
Commercial Food Preparation	735	323	136	114	70	44	29	15	5	10.2
Computer Room	223	37	31	46	41	31	24	10	4	14.5
Rooms with Special Ventilation	236	80	52	44	25	17	11	6	2	15.7
Activity with Large Amounts of Hot Water	203	74	29	47	26	12	9	6	1	17.9

See footnotes at end of table.

Table A8. Building Size, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	Buildings by Size								RSE Row Factor
		1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet	
RSE Column Factor:	0.5	0.7	0.8	0.8	1.0	1.1	1.3	1.4	2.2	
Percent of Floorspace Heated										
Not Heated	653	448	99	64	27	6	7	2	Q	20.3
1 to 50	688	340	156	116	46	13	10	4	2	14.2
51 to 99	618	294	152	96	40	19	11	4	1	13.2
100	2,846	1,600	568	371	167	77	43	16	5	8.5
Percent of Floorspace Cooled										
Not Cooled	1,304	889	216	128	44	12	12	2	Q	15.0
1 to 50	1,176	507	279	215	103	38	21	9	4	10.1
51 to 99	658	299	152	108	46	27	16	8	2	12.4
100	1,668	987	327	196	87	39	22	7	Q	10.5
Percent Lit when Open										
Not Lit	413	287	64	36	18	5	Q	Q	Q	21.7
1 to 50	881	489	180	144	41	14	11	2	Q	14.4
51 to 99	813	387	189	128	63	24	13	5	Q	11.1
100	2,699	1,518	541	339	158	73	46	19	4	7.9
Heating Equipment (more than one may apply)										
Heat Pumps	449	198	121	71	30	13	10	4	2	15.8
Furnaces	1,692	1,002	387	193	72	20	14	4	1	11.8
Individual Space Heaters	1,464	812	287	210	84	38	21	9	4	10.0
District Heat	93	18	11	28	15	9	6	5	1	23.3
Boilers	624	165	145	135	91	43	28	12	4	11.7
Packaged Heating Units	870	396	190	162	62	36	16	6	3	12.2
Other	42	28	Q	Q	Q	Q	Q	Q	Q	42.4
Cooling Equipment (more than one may apply)										
Residential-Type Central Air Conditioners	816	470	173	107	44	12	7	3	1	15.1
Heat Pumps	454	202	120	71	31	15	11	3	2	15.6
Individual Air Conditioners	1,023	536	198	155	73	34	16	7	5	11.7
District Chilled Water	28	Q	Q	8	9	Q	2	2	1	28.1
Central Chillers	142	Q	20	21	29	24	20	9	5	16.9
Packaged Air-Conditioning Units	1,459	625	347	264	119	58	30	12	4	9.8
Swamp Coolers	179	110	33	21	8	Q	Q	Q	Q	37.5
Other	8	Q	Q	Q	Q	Q	Q	Q	Q	89.2
Lighting Equipment Types (more than one may apply)										
Incandescent	2,509	1,342	523	347	167	66	43	17	5	7.9
Standard Fluorescent	4,065	2,145	866	591	257	110	64	25	9	6.8
Compact Fluorescent	206	68	50	31	24	16	10	6	2	15.1
High-Intensity Discharge	354	95	61	66	56	35	22	14	5	12.1
Other	78	37	Q	16	Q	Q	Q	Q	Q	30.7
Personal Computers and/or Computer Terminals										
1 to 4	1,269	651	311	204	77	15	9	3	Q	11.8
5 to 9	336	106	111	67	26	16	8	2	Q	16.7
10 to 19	216	24	56	70	44	13	7	2	Q	18.4
20 to 49	164	Q	14	63	35	27	9	4	Q	17.7
50 to 99	59	Q	Q	8	16	16	11	4	Q	18.3
100 to 249	34	Q	Q	Q	7	9	9	4	1	17.5
250 or More	19	Q	Q	Q	Q	4	4	6	3	18.3

See footnotes at end of table.

Table A8. Building Size, Number of Buildings, 1992 (Continued)

(Thousand)

Building Characteristics	All Buildings	Buildings by Size								RSE Row Factor
		1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet	
RSE Column Factor:	0.5	0.7	0.8	0.8	1.0	1.1	1.3	1.4	2.2	
Building Shell Conservation Features (more than one may apply)										
Roof or Ceiling Insulation	3,343	1,777	708	475	212	93	52	19	7	7.6
Wall Insulation	2,320	1,279	472	322	137	57	35	13	5	9.3
Storm or Multiple Glazing	1,680	800	390	263	123	56	29	13	5	10.0
Tinted, Reflective or Shading Glass	1,068	445	238	199	90	48	29	13	6	10.2
Exterior or Interior Shading or Awnings	1,853	901	392	288	137	75	37	17	5	9.5
Windows that Open	2,119	1,181	425	296	120	54	30	11	3	9.4
HVAC Conservation Features (more than one may apply)										
Variable Air-Volume System	250	67	45	45	35	24	17	11	5	14.8
Economizer Cycle	414	111	84	94	47	35	26	12	6	13.0
HVAC Maintenance	2,503	1,143	542	429	205	97	55	22	9	7.8
Lighting Conservation Features (more than one may apply)										
Specular Reflectors	574	212	127	124	55	26	18	8	3	12.4
Natural Lighting Control Sensors	74	Q	21	11	9	4	2	3	1	25.2
Occupancy Sensors	59	Q	Q	10	7	2	7	3	1	21.4
Time Clock	339	114	80	66	35	20	13	7	5	15.9
Manual Dimmer Switches	413	147	101	88	36	18	13	8	3	12.7
Other	78	23	Q	21	8	6	5	1	(*)	24.2
Energy Conservation Features (more than one may apply)										
Any Conservation Features	4,357	2,376	887	610	268	113	68	25	9	7.0
Building Shell	4,223	2,305	864	587	259	111	66	23	9	7.1
HVAC	2,604	1,194	569	447	208	98	57	23	9	7.6
Lighting	1,178	452	275	241	106	47	36	14	7	9.7
Other	264	102	62	50	25	14	8	2	1	17.5
Demand-Side Management Programs (more than one may apply)										
Building Shell Program	36	Q	Q	Q	Q	Q	Q	1	(*)	25.0
HVAC Program	154	46	30	36	14	12	9	5	2	18.1
Lighting Program	228	75	47	46	25	16	9	8	2	16.3
Other DSM Programs	110	37	Q	20	11	10	8	5	2	19.2

(*) = Value rounds to zero in the units displayed.

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A9. Building Size, Floorspace, 1992
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Floorspace by Building Size								RSE Row Factor
		1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet	
RSE Column Factor:	0.5	0.8	0.8	0.8	1.0	1.0	1.3	1.4	2.0	
All Buildings	67,876	7,327	7,199	10,375	10,069	8,062	9,678	7,889	7,278	6.8
Principal Building Activity										
Education	8,470	292	307	997	1,551	2,045	1,641	1,621	Q	15.6
Food Sales	757	286	Q	Q	Q	Q	Q	Q	Q	24.1
Food Service	1,491	485	343	325	Q	Q	Q	Q	Q	19.5
Health Care	1,763	108	Q	Q	Q	Q	401	504	381	18.6
Lodging	2,891	159	294	412	711	420	378	380	Q	25.1
Mercantile and Service	12,402	2,203	1,987	2,003	1,369	1,268	1,364	646	1,560	15.0
Office	12,319	1,018	1,248	1,656	1,823	1,355	1,973	1,708	1,537	12.6
Parking Garage	1,652	Q	Q	Q	Q	Q	Q	694	Q	35.4
Public Assembly	4,556	438	494	822	615	378	Q	418	Q	24.2
Public Order and Safety	820	91	Q	Q	Q	Q	Q	Q	Q	38.3
Religious Worship	3,747	564	562	920	663	Q	Q	Q	Q	19.6
Warehouse and Storage	11,484	1,089	1,106	2,066	1,631	1,250	2,124	1,075	1,144	16.5
Other	1,130	99	Q	110	Q	Q	Q	Q	Q	32.4
Vacant	4,396	473	459	635	768	503	464	357	Q	21.9
Year Constructed										
1899 or Before	1,721	251	397	297	431	Q	Q	Q	Q	28.4
1900 to 1919	3,608	336	523	503	522	319	Q	Q	Q	25.1
1920 to 1945	8,712	1,150	1,106	1,507	1,267	927	1,227	707	Q	17.2
1946 to 1959	10,421	1,352	1,255	1,775	1,792	1,236	1,520	1,011	Q	14.7
1960 to 1969	12,612	1,167	986	1,892	1,856	1,625	2,306	1,444	1,335	14.8
1970 to 1979	14,014	1,536	1,505	1,902	2,216	1,776	1,673	1,988	1,418	12.2
1980 to 1989	14,287	1,339	1,251	2,189	1,658	1,717	2,070	1,526	2,536	13.8
1990 to 1992	2,502	197	176	309	327	268	269	670	285	20.7
Census Region										
Northeast	13,400	1,074	1,337	1,663	1,976	1,752	1,598	1,696	2,303	13.4
Midwest	17,280	1,889	1,763	2,689	2,353	2,097	2,048	2,839	1,601	11.9
South	24,577	3,155	2,723	3,782	3,696	2,842	3,720	1,968	2,691	12.0
West	12,619	1,208	1,376	2,241	2,043	1,371	2,311	1,386	683	14.2
Energy Sources (more than one may apply)										
Electricity	66,549	6,996	7,057	10,097	9,856	7,936	9,658	7,678	7,271	6.8
Natural Gas	45,097	3,761	4,266	6,865	6,510	5,735	7,134	5,648	5,177	7.6
Fuel Oil	13,218	829	925	978	1,377	1,539	1,573	3,017	2,980	12.5
District Heat	5,339	56	73	450	545	653	780	1,532	1,250	22.1
District Chilled Water	2,066	Q	Q	115	311	Q	252	737	515	26.0
Propane	3,393	573	466	456	501	411	500	Q	Q	22.6
Any Other	1,551	250	311	Q	Q	Q	Q	Q	Q	27.0
Energy End Uses (more than one may apply)										
Heated Buildings	61,996	6,210	6,533	9,424	9,132	7,622	8,730	7,470	6,876	6.8
Air-Conditioned Buildings	57,041	4,994	5,601	8,364	8,435	7,185	8,072	7,217	7,174	7.0
Buildings with Water Heating	58,479	4,928	5,834	8,724	8,637	7,489	8,492	7,466	6,910	7.1
Buildings with Cooking	23,065	903	998	1,852	2,627	3,110	4,062	4,639	4,874	11.1
Buildings with Manufacturing	3,174	97	245	495	382	618	442	257	637	24.7
Predominant Exterior Wall Material										
Masonry	48,585	4,401	5,001	7,867	7,545	6,552	6,649	5,666	4,905	7.6
Siding or Shingles	3,873	1,536	730	750	469	Q	Q	Q	Q	16.1
Metal Panels	7,392	1,255	1,158	1,345	1,120	426	1,158	366	565	20.0
Concrete Panels	4,961	Q	108	325	576	736	1,033	1,282	Q	21.9
Window Glass	2,028	Q	Q	Q	283	Q	286	377	726	24.2
Other	1,037	Q	Q	Q	Q	Q	Q	Q	Q	41.3

See footnotes at end of table.

Table A9. Building Size, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Floorspace by Building Size									RSE Row Factor
	Total Floorspace of All Buildings	1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet	
RSE Column Factor:	0.5	0.8	0.8	0.8	1.0	1.0	1.3	1.4	2.0	
Predominant Roof Material										
Built-Up	30,257	2,170	2,752	4,357	4,407	3,873	5,456	3,446	3,796	9.9
Shingles (Not Wood)	10,570	2,463	1,791	2,149	1,797	777	648	466	Q	15.1
Metal Surfacing	9,019	1,776	1,569	1,899	1,391	781	1,082	Q	Q	15.9
Synthetic or Rubber	11,702	391	592	1,258	1,451	2,013	1,557	2,912	1,528	14.3
Slate or Tile	1,998	215	275	357	445	275	Q	Q	Q	26.7
Concrete	2,544	Q	Q	Q	Q	Q	499	486	1,001	26.5
Other	1,786	284	203	234	379	Q	Q	Q	Q	28.1
Floors										
One	25,424	5,331	3,834	4,916	3,634	2,484	2,409	1,315	Q	10.9
Two	18,025	1,508	2,121	3,434	2,913	2,421	2,617	1,252	1,759	10.9
Three	9,877	412	898	1,630	1,960	1,562	1,567	1,125	723	13.7
Four to Nine	10,377	Q	345	391	1,538	1,491	2,486	2,916	1,134	17.1
Ten or More	4,173	Q	Q	Q	Q	Q	598	1,281	2,159	17.1
Percent Window Glass										
25 or Less	51,356	6,618	6,253	8,865	7,211	5,572	7,073	5,307	4,456	8.0
26 to 49	11,815	575	819	1,194	2,204	1,711	1,847	1,556	1,909	13.2
51 to 75	3,206	106	Q	208	449	603	548	776	414	19.4
76 to 100	1,499	Q	Q	Q	Q	Q	210	249	498	27.8
Building Shape										
Square	3,654	429	487	393	416	443	425	554	507	21.1
Rectangle	39,233	6,069	5,247	7,204	5,853	3,831	4,977	3,235	2,818	8.3
Rectangle or Square with Courtyard	1,372	Q	Q	Q	Q	382	Q	Q	Q	33.2
Right Angle	6,071	360	659	899	1,501	836	926	407	Q	17.8
Other	17,547	435	702	1,741	2,140	2,571	3,080	3,480	3,399	13.7
Workers (main shift)										
Less than 5	17,944	5,095	3,329	3,053	2,107	910	1,044	1,020	Q	14.3
5 to 9	7,524	1,554	1,612	1,801	1,348	595	444	Q	Q	14.6
10 to 19	8,077	537	1,446	2,323	1,538	643	922	Q	Q	16.5
20 to 49	10,556	120	757	2,608	3,049	1,899	1,367	628	Q	14.7
50 to 99	7,763	Q	Q	450	1,445	2,151	2,122	850	Q	14.7
100 to 249	7,378	Q	Q	Q	517	1,303	2,550	2,139	744	15.9
250 or More	8,633	Q	Q	Q	Q	561	1,229	2,812	3,951	12.7
Weekly Operating Hours										
39 or Fewer	8,246	1,797	1,341	1,592	1,309	1,007	Q	418	Q	16.1
40 to 48	14,998	1,904	2,186	2,994	2,553	1,698	2,254	1,178	230	11.3
49 to 60	14,046	1,430	1,610	2,549	2,536	1,440	2,278	1,188	1,016	12.1
61 to 84	12,062	926	1,098	1,408	1,443	1,769	2,152	1,238	2,028	13.2
85 to 167	8,467	772	492	1,022	1,151	1,132	1,390	1,480	1,027	16.3
Open Continuously	10,057	498	472	810	1,077	1,015	1,371	2,387	2,427	16.9
Ownership and Occupancy										
Nongovernment Owned	52,752	6,638	6,351	8,640	8,116	5,821	6,820	4,957	5,409	7.6
Owner Occupied	38,403	5,119	4,861	6,343	6,054	4,026	5,178	3,484	3,337	8.1
Nonowner Occupied	12,273	1,172	1,251	2,017	1,645	1,516	1,527	1,252	Q	13.4
Unoccupied	2,077	347	239	279	418	Q	Q	Q	Q	27.3
Government Owned	15,124	689	848	1,735	1,953	2,241	2,858	2,932	1,869	12.2
Energy-Related Space Functions (more than one may apply)										
Commercial Food Preparation	22,166	911	994	1,848	2,627	3,110	4,062	4,639	3,975	10.2
Computer Room	14,199	118	231	756	1,534	2,127	3,217	3,096	3,119	14.2
Rooms with Special Ventilation	8,042	241	394	742	851	1,095	1,628	1,839	1,250	15.4
Activity with Large Amounts of Hot Water	6,862	194	223	796	1,002	815	1,245	1,706	880	18.3

See footnotes at end of table.

Table A9. Building Size, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Floorspace by Building Size									RSE Row Factor
	Total Floorspace of All Buildings	1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet	
RSE Column Factor:	0.5	0.8	0.8	0.8	1.0	1.0	1.3	1.4	2.0	
Percent of Floorspace Heated										
Not Heated	6,211	1,150	724	979	995	473	983	425	Q	21.4
1 to 50	11,195	1,014	1,182	1,801	1,665	937	1,395	1,148	2,054	14.6
51 to 99	10,211	844	1,115	1,546	1,415	1,289	1,590	1,168	1,245	13.4
100	40,260	4,319	4,178	6,050	5,995	5,364	5,710	5,148	3,497	8.4
Percent of Floorspace Cooled										
Not Cooled	10,835	2,332	1,598	2,012	1,635	878	1,606	672	Q	15.6
1 to 50	21,715	1,531	2,091	3,398	3,696	2,703	2,932	2,705	2,660	10.5
51 to 99	13,872	830	1,136	1,753	1,652	1,785	2,247	2,371	2,098	12.7
100	21,454	2,633	2,374	3,213	3,087	2,697	2,893	2,141	2,416	11.6
Percent Lit when Open										
Not Lit	3,280	724	458	529	613	341	Q	Q	Q	22.1
1 to 50	9,980	1,405	1,318	2,235	1,500	1,017	1,501	557	Q	15.2
51 to 99	14,224	1,076	1,405	2,092	2,300	1,605	1,816	1,363	2,568	12.7
100	40,393	4,122	4,018	5,520	5,656	5,099	6,296	5,743	3,939	8.1
Heating Equipment (more than one may apply)										
Heat Pumps	8,269	542	899	1,159	1,119	932	1,433	1,012	1,172	15.9
Furnaces	16,909	2,780	2,816	3,131	2,559	1,352	1,860	1,075	1,337	11.9
Individual Space Heaters	22,380	2,291	2,153	3,305	2,942	2,681	2,793	2,934	3,281	10.1
District Heat	5,225	56	73	443	516	624	777	1,521	1,215	22.5
Boilers	20,664	511	1,100	2,210	3,351	3,037	3,879	3,477	3,098	11.7
Packaged Heating Units	16,000	1,116	1,415	2,667	2,168	2,509	2,126	1,603	2,396	12.3
Other	903	74	Q	Q	Q	Q	Q	Q	Q	36.5
Cooling Equipment (more than one may apply)										
Residential-Type Central Air Conditioners	9,021	1,313	1,268	1,716	1,528	810	913	851	622	14.3
Heat Pumps	8,406	549	902	1,152	1,181	1,032	1,511	889	1,191	15.7
Individual Air Conditioners	17,979	1,516	1,470	2,370	2,604	2,390	2,167	2,082	3,381	12.0
District Chilled Water	2,066	Q	Q	115	311	Q	252	737	515	26.0
Central Chillers	12,991	Q	157	357	1,088	1,651	2,752	3,072	3,869	16.6
Packaged Air-Conditioning Units	27,830	1,750	2,550	4,319	4,245	4,040	4,172	3,678	3,075	9.6
Swamp Coolers	2,085	316	250	331	304	Q	Q	Q	Q	35.8
Other	268	Q	Q	Q	Q	Q	Q	Q	Q	69.2
Lighting Equipment Types (more than one may apply)										
Incandescent	39,221	3,763	3,835	5,550	6,045	4,604	5,898	5,226	4,300	8.0
Standard Fluorescent	62,074	5,927	6,422	9,562	9,191	7,594	8,740	7,528	7,110	6.9
Compact Fluorescent	8,336	195	380	507	925	1,185	1,375	1,745	2,024	15.5
High-Intensity Discharge	17,570	289	487	1,123	2,089	2,447	3,118	3,932	4,085	12.6
Other	1,612	113	Q	227	Q	Q	Q	Q	407	27.7
Personal Computers and/or Computer Terminals										
1 to 4	13,355	1,845	2,378	3,235	2,681	1,115	1,251	802	Q	12.5
5 to 9	5,970	333	819	1,135	969	1,081	1,043	507	Q	16.4
10 to 19	6,236	81	406	1,167	1,620	890	863	432	Q	19.1
20 to 49	7,439	Q	108	1,080	1,288	1,794	1,288	1,047	Q	17.4
50 to 99	4,908	Q	Q	153	608	1,160	1,546	1,133	Q	18.1
100 to 249	4,220	Q	Q	Q	251	629	1,318	1,323	619	17.0
250 or More	5,569	Q	Q	Q	Q	330	578	1,948	2,667	18.2

See footnotes at end of table.

Table A9. Building Size, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Floorspace by Building Size								RSE Row Factor
		1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet	
RSE Column Factor:	0.5	0.8	0.8	0.8	1.0	1.0	1.3	1.4	2.0	
Building Shell Conservation Features (more than one may apply)										
Roof or Ceiling Insulation	50,311	4,951	5,270	7,668	7,504	6,454	7,160	5,653	5,650	7.4
Wall Insulation	33,240	3,554	3,481	5,145	4,949	3,940	4,733	3,637	3,800	9.0
Storm or Multiple Glazing	29,684	2,274	2,895	4,324	4,448	3,913	4,126	3,928	3,776	9.8
Tinted, Reflective or Shading Glass	25,396	1,251	1,789	3,195	3,226	3,395	3,948	4,076	4,516	10.4
Exterior or Interior Shading or Awnings	34,071	2,518	2,900	4,722	4,900	5,145	5,131	5,168	3,588	9.2
Windows that Open	28,937	3,293	3,117	4,700	4,366	3,754	4,209	3,179	2,319	9.6
HVAC Conservation Features (more than one may apply)										
Variable Air-Volume System	13,970	185	335	794	1,287	1,714	2,251	3,359	4,044	15.5
Economizer Cycle	18,313	311	622	1,576	1,703	2,465	3,461	3,606	4,570	12.9
HVAC Maintenance	49,173	3,230	4,032	6,983	7,392	6,729	7,514	6,834	6,459	7.6
Lighting Conservation Features (more than one may apply)										
Specular Reflectors	15,241	611	956	2,088	1,970	1,883	2,507	2,677	2,550	12.8
Natural Lighting Control Sensors	3,072	Q	147	189	305	259	314	910	882	24.0
Occupancy Sensors	3,629	Q	Q	201	264	174	840	1,045	955	20.4
Time Clock	12,104	310	618	1,132	1,274	1,446	1,765	2,038	3,522	16.2
Manual Dimmer Switches	12,329	446	761	1,420	1,341	1,326	1,859	2,559	2,616	13.0
Other	2,596	69	Q	388	301	446	604	383	306	23.2
Energy Conservation Features (more than one may apply)										
Any Conservation Features	64,403	6,575	6,566	9,788	9,597	7,874	9,271	7,479	7,254	7.0
Building Shell	62,056	6,375	6,405	9,403	9,270	7,683	8,935	7,098	6,887	7.0
HVAC	50,281	3,370	4,221	7,257	7,503	6,797	7,699	6,946	6,488	7.5
Lighting	29,453	1,302	2,066	3,952	3,884	3,420	4,821	4,557	5,452	9.9
Other	5,952	291	467	821	896	917	1,020	740	799	17.2
Demand-Side Management Programs (more than one may apply)										
Building Shell Program	1,079	Q	Q	Q	Q	Q	Q	310	143	22.6
HVAC Program	6,370	152	222	595	541	843	1,236	1,490	1,291	17.7
Lighting Program	8,805	225	345	704	951	1,128	1,235	2,247	1,970	16.4
Other DSM Programs	6,176	119	Q	326	418	712	1,190	1,548	1,749	19.5

Q = Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
 Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.
 Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A10. Year Constructed, Number of Buildings, 1992
(Thousand)

Building Characteristics	All Buildings	Buildings by Year Constructed									RSE Row Factor
		1899 or Before	1900 to 1919	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1986	1987 to 1989	1990 to 1992	
RSE Column Factor:	0.4	1.6	1.4	0.9	0.8	0.8	0.8	0.9	1.4	1.7	
All Buildings	4,806	169	255	724	880	783	982	671	212	128	7.4
Building Floorspace (square feet)											
1,001 to 5,000	2,681	80	128	415	511	435	558	384	103	68	9.9
5,001 to 10,000	975	52	71	151	174	135	201	119	49	24	12.6
10,001 to 25,000	647	22	30	97	111	118	116	98	36	19	13.5
25,001 to 50,000	280	12	15	36	50	50	62	33	13	9	16.5
50,001 to 100,000	116	Q	5	14	18	23	25	20	5	4	17.9
100,001 to 200,000	71	Q	Q	9	11	17	12	12	3	2	23.0
200,001 to 500,000	26	Q	Q	2	3	5	6	4	1	2	24.4
Over 500,000	9	Q	Q	1	(*)	1	2	2	Q	(*)	36.4
Principal Building Activity											
Education	301	Q	12	28	76	72	46	37	12	17	19.9
Food Sales	130	Q	Q	Q	Q	Q	28	Q	Q	Q	28.9
Food Service	260	Q	Q	43	51	33	73	23	Q	Q	21.8
Health Care	63	Q	Q	7	10	15	14	9	Q	Q	40.3
Lodging	154	Q	Q	14	24	38	27	22	Q	4	26.4
Mercantile and Service	1,272	34	59	210	235	208	247	200	47	32	11.6
Office	749	31	38	108	136	102	163	113	42	15	13.7
Parking Garage	24	Q	Q	Q	Q	Q	10	Q	Q	(*)	38.1
Public Assembly	278	Q	15	42	42	58	52	32	Q	12	20.2
Public Order and Safety	60	Q	Q	Q	Q	Q	16	Q	Q	Q	37.0
Religious Worship	366	29	33	56	89	53	55	37	Q	Q	18.3
Warehouse and Storage	761	Q	27	112	117	107	185	125	50	21	15.4
Other	69	Q	Q	Q	13	11	15	14	Q	Q	46.3
Vacant	319	Q	40	75	53	44	49	29	Q	7	19.9
Census Region											
Northeast	771	52	62	166	124	122	118	81	31	14	15.3
Midwest	1,202	78	105	193	208	174	248	121	37	38	15.2
South	1,963	26	66	257	368	324	426	341	102	51	12.3
West	870	Q	22	109	179	163	190	128	42	25	18.4
Energy Sources (more than one may apply)											
Electricity	4,616	169	244	681	839	759	945	648	206	124	7.4
Natural Gas	2,665	112	178	437	515	465	517	279	108	53	9.0
Fuel Oil	559	31	52	105	107	89	91	52	22	8	18.3
District Heat	95	4	10	13	22	22	9	7	4	Q	27.2
District Chilled Water	28	Q	Q	Q	7	5	5	Q	Q	Q	40.6
Propane	337	Q	Q	42	60	53	67	57	16	20	22.5
Any Other	163	Q	Q	49	Q	25	31	Q	Q	Q	26.2
Energy End Uses (more than one may apply)											
Heated Buildings	4,178	158	232	623	760	687	850	576	184	107	7.5
Air-Conditioned Buildings	3,502	119	169	491	643	563	741	515	167	93	8.0
Buildings with Water Heating	3,502	126	202	507	638	580	721	489	160	79	7.8
Buildings with Cooking	734	41	42	101	134	120	154	86	36	21	12.5
Buildings with Manufacturing	121	Q	Q	21	20	11	31	15	Q	Q	28.3
Predominant Exterior Wall Material											
Masonry	3,115	126	189	528	667	548	550	338	109	61	8.7
Siding or Shingles	764	43	60	137	121	106	141	102	31	26	14.7
Metal Panels	745	Q	Q	48	71	106	229	194	61	33	15.1
Concrete Panels	87	Q	Q	Q	Q	14	27	21	7	6	24.4
Window Glass	46	Q	Q	Q	Q	6	18	8	1	Q	39.8
Other	47	Q	Q	Q	Q	Q	17	Q	Q	Q	46.4

See footnotes at end of table.

Table A10. Year Constructed, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	Buildings by Year Constructed									RSE Row Factor
		1899 or Before	1900 to 1919	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1986	1987 to 1989	1990 to 1992	
RSE Column Factor:	0.4	1.6	1.4	0.9	0.8	0.8	0.8	0.9	1.4	1.7	
Predominant Roof Material											
Built-Up	1,642	53	93	294	375	328	287	159	36	17	12.0
Shingles (Not Wood)	1,381	56	93	222	269	206	285	179	37	33	11.4
Metal Surfacing	1,037	Q	Q	75	99	146	285	255	90	50	13.8
Synthetic or Rubber	386	20	26	62	79	55	59	39	28	17	17.6
Slate or Tile	155	17	14	33	25	22	Q	Q	Q	Q	22.5
Concrete	37	Q	Q	Q	Q	6	7	9	Q	1	42.8
Other	167	Q	Q	33	27	20	40	19	Q	Q	31.2
Floors											
One	3,007	Q	52	323	584	554	707	511	159	99	9.9
Two	1,154	47	89	227	214	177	217	122	39	20	11.5
Three	446	58	75	135	65	39	44	19	7	4	16.9
Four to Nine	186	46	38	37	15	11	13	16	6	5	19.8
Ten or More	13	Q	Q	3	Q	3	2	3	Q	(*)	27.4
Percent Window Glass											
25 or Less	4,193	141	215	651	768	681	863	593	172	110	7.8
26 to 50	490	25	36	62	88	82	96	55	33	14	15.4
51 to 75	94	Q	Q	11	16	18	18	16	Q	4	30.6
76 to 100	29	Q	Q	Q	8	3	6	7	Q	Q	46.9
Building Shape											
Square	280	Q	12	42	58	41	59	45	14	3	21.0
Rectangle	3,659	123	203	558	643	579	772	520	163	97	8.3
Rectangle or Square with Courtyard	48	Q	Q	Q	Q	8	11	7	Q	Q	44.4
Right Angle	333	19	Q	46	67	70	61	38	8	8	18.7
Other	485	17	20	75	107	85	79	61	23	18	15.5
Workers (main shift)											
Less than 5	2,718	93	157	476	501	431	514	363	106	77	9.9
5 to 9	895	41	39	122	176	131	208	120	42	16	12.8
10 to 19	561	14	36	63	94	101	130	80	29	15	16.1
20 to 49	405	14	13	46	80	78	80	63	22	10	16.0
50 to 99	130	Q	Q	10	20	23	28	24	8	5	20.4
100 to 249	64	Q	3	4	7	11	16	15	5	3	20.6
250 or More	31	Q	Q	3	2	8	6	6	2	2	23.4
Weekly Operating Hours											
39 or Fewer	1,039	57	75	185	219	150	196	103	29	24	14.0
40 to 48	1,278	43	71	208	245	188	244	194	55	30	11.8
49 to 60	1,004	22	52	137	192	171	211	146	38	34	12.6
61 to 84	645	17	23	100	82	106	154	109	36	18	14.7
85 to 167	478	22	21	61	88	86	99	57	34	10	16.9
Open Continuously	362	Q	13	34	53	82	77	63	21	12	18.4
Ownership and Occupancy											
Nongovernment Owned	4,206	163	226	644	751	659	865	614	184	102	7.7
Owner Occupied	3,192	135	175	478	561	495	657	460	145	85	8.5
Nonowner Occupied	817	23	39	122	147	130	171	137	35	14	15.4
Unoccupied	197	Q	Q	45	43	34	36	Q	Q	Q	24.5
Government Owned	599	Q	29	80	129	125	117	58	29	26	15.5
Energy-Related Space Functions (more than one may apply)											
Commercial Food Preparation	735	41	42	101	134	122	155	86	34	21	12.3
Computer Room	223	Q	12	26	33	43	44	34	17	6	19.4
Rooms with Special Ventilation	236	Q	Q	25	39	38	54	37	14	10	20.5
Activity with Large Amounts of Hot Water	203	Q	Q	25	42	45	44	23	12	5	19.1

See footnotes at end of table.

Table A10. Year Constructed, Number of Buildings, 1992 (Continued)

(Thousand)

Building Characteristics	All Buildings	Buildings by Year Constructed									RSE Row Factor
		1899 or Before	1900 to 1919	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1986	1987 to 1989	1990 to 1992	
RSE Column Factor:	0.4	1.6	1.4	0.9	0.8	0.8	0.8	0.9	1.4	1.7	
Percent of Floorspace Heated											
Not Heated	653	Q	24	106	121	99	145	95	29	21	16.2
1 to 50	688	35	45	135	115	115	114	91	27	11	15.3
51 to 99	618	32	38	110	109	97	125	78	20	Q	16.7
100	2,846	88	147	374	535	473	598	408	137	87	8.2
Percent of Floorspace Cooled											
Not Cooled	1,304	50	86	234	237	220	241	157	45	35	12.4
1 to 50	1,176	67	68	190	250	181	212	147	44	17	11.3
51 to 99	658	24	44	106	111	103	142	90	22	16	15.2
100	1,668	28	58	195	282	279	387	278	101	60	10.8
Percent Lit when Open											
Not Lit	413	Q	23	76	78	55	83	58	Q	Q	21.0
1 to 50	881	61	79	168	151	138	150	95	19	20	13.9
51 to 99	813	41	52	122	150	132	163	108	30	15	14.6
100	2,699	55	101	359	501	458	586	411	148	82	8.7
Heating Equipment (more than one may apply)											
Heat Pumps	449	Q	Q	34	44	58	112	120	35	23	19.1
Furnaces	1,692	74	104	285	358	282	324	191	53	21	11.1
Individual Space Heaters	1,464	61	65	230	258	259	305	197	52	36	11.0
District Heat	93	4	10	12	22	22	9	7	4	Q	27.3
Boilers	624	53	70	128	127	107	79	33	15	12	14.7
Packaged Heating Units	870	Q	20	84	137	136	219	165	63	33	14.4
Other	42	Q	Q	Q	Q	Q	13	Q	Q	Q	48.9
Heating Distribution Equipment (more than one may apply)											
Radiators or Baseboards	473	54	68	107	87	71	54	21	9	3	17.9
Ducts for Heating	2,955	90	138	394	529	474	641	457	149	83	8.4
Heating Only	577	33	45	120	135	101	84	46	Q	Q	14.5
Heating and Cooling	2,378	57	93	274	395	372	558	411	139	78	9.5
Variable Air-Volume System	210	Q	9	16	29	29	43	38	32	12	19.7
Fan Coil Units for Heating	99	Q	8	22	20	16	12	8	Q	Q	25.6
Heating Only	78	Q	Q	18	18	10	9	7	Q	Q	32.0
Heating and Cooling	21	Q	Q	Q	Q	7	3	Q	Q	Q	37.6
Individual Space Heaters	1,464	61	65	230	258	259	305	197	52	36	11.0
Other	181	Q	Q	24	57	34	23	16	Q	Q	25.9
Cooling Equipment (more than one may apply)											
Residential-Type Central											
Air Conditioners	816	34	64	105	156	135	162	112	31	17	16.4
Heat Pumps	454	Q	13	29	43	62	116	119	38	25	20.3
Individual Air Conditioners	1,023	65	78	203	217	172	166	85	25	12	13.4
District Chilled Water	28	Q	Q	Q	7	5	5	Q	Q	Q	40.6
Central Chillers	142	Q	5	12	27	36	27	14	9	5	21.8
Packaged Air-Conditioning											
Units	1,459	41	41	186	256	241	348	229	77	40	11.7
Swamp Coolers	179	Q	Q	28	42	40	24	31	Q	Q	37.4
Other	8	Q	Q	Q	Q	Q	Q	Q	Q	Q	102.8
Cooling Distribution Equipment (more than one may apply)											
Ducts for Cooling	2,733	83	117	329	466	430	623	454	148	82	9.0
Cooling Only	355	26	24	56	71	57	65	43	9	Q	18.8
Heating and Cooling	2,378	57	93	274	395	372	558	411	139	78	9.5
Variable Air-Volume System	221	Q	10	16	30	27	50	39	33	12	18.4
Fan Coil Units for Cooling	56	Q	Q	8	9	16	9	3	Q	(*)	34.8
Cooling Only	35	Q	Q	Q	Q	9	Q	Q	Q	Q	46.5
Heating and Cooling	21	Q	Q	Q	Q	7	3	Q	Q	Q	37.6
Individual Air Conditioners	1,023	65	78	203	217	172	166	85	25	12	13.4
Other	111	Q	Q	12	18	31	19	Q	Q	Q	32.6

See footnotes at end of table.

Table A10. Year Constructed, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	Buildings by Year Constructed									RSE Row Factor
		1899 or Before	1900 to 1919	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1986	1987 to 1989	1990 to 1992	
RSE Column Factor:	0.4	1.6	1.4	0.9	0.8	0.8	0.8	0.9	1.4	1.7	
Lighting Equipment Types (more than one may apply)											
Incandescent	2,509	136	165	436	494	399	461	284	74	59	9.2
Standard Fluorescent	4,065	140	219	588	740	665	843	583	187	101	7.3
Compact Fluorescent	206	Q	9	27	26	36	44	29	13	11	21.9
High-Intensity Discharge	354	Q	13	37	52	49	77	75	27	20	15.5
Other	78	Q	Q	Q	Q	Q	12	25	Q	Q	35.9
Personal Computers and/or Computer Terminals											
1 to 4	1,269	38	57	181	228	188	301	177	68	32	11.9
5 to 9	336	Q	17	33	41	44	94	65	25	7	17.1
10 to 19	216	Q	Q	26	39	52	43	30	11	6	20.0
20 to 49	164	Q	12	14	29	36	27	24	14	5	21.1
50 to 99	59	Q	Q	5	11	9	12	12	3	2	25.1
100 to 249	34	Q	Q	6	3	8	7	6	2	2	29.3
250 or More	19	Q	Q	1	1	3	4	5	2	2	32.5
Building Shell Conservation Features (more than one may apply)											
Roof or Ceiling Insulation	3,343	100	167	419	549	551	739	541	174	103	7.9
Wall Insulation	2,320	51	89	222	302	364	571	466	155	100	8.8
Storm or Multiple Glazing	1,680	88	125	218	238	230	332	257	117	75	9.8
Tinted, Reflective or Shading Glass	1,068	30	34	119	172	171	221	203	80	40	12.3
Exterior or Interior Shading or Awnings	1,853	67	94	240	336	297	364	285	110	61	9.9
Windows that Open	2,119	106	146	360	454	352	346	240	56	60	10.3
HVAC Conservation Features (more than one may apply)											
Variable Air-Volume System	250	Q	11	19	39	36	53	41	33	12	17.9
Economizer Cycle	414	Q	22	38	51	61	99	63	47	24	16.3
HVAC Maintenance	2,503	93	134	317	428	429	532	371	132	68	9.0
Lighting Conservation Features (more than one may apply)											
Specular Reflectors	574	20	27	86	93	86	115	84	38	24	15.8
Natural Lighting Control Sensors	74	Q	Q	Q	16	10	15	10	6	Q	34.4
Occupancy Sensors	59	Q	Q	4	11	16	7	9	Q	Q	34.8
Time Clock	339	24	11	48	39	58	67	64	17	12	19.1
Manual Dimmer Switches	413	38	31	63	58	56	76	55	18	18	15.9
Other	78	Q	Q	Q	7	16	24	8	Q	4	34.9
Energy Conservation Features (more than one may apply)											
Any Conservation Features	4,357	159	235	641	782	716	889	617	195	121	7.7
Building Shell	4,223	155	230	615	761	697	850	604	193	117	7.8
HVAC	2,604	95	137	328	445	442	556	382	144	76	8.7
Lighting	1,178	65	65	173	169	180	235	175	68	48	11.0
Other	264	Q	20	31	41	38	59	34	21	9	21.6
Demand-Side Management Programs (more than one may apply)											
Building Shell Program	36	Q	Q	Q	Q	5	12	Q	Q	Q	44.1
HVAC Program	154	Q	7	14	24	29	43	17	10	Q	26.0
Lighting Program	228	9	14	36	42	39	53	22	9	4	23.2
Other DSM Programs	110	Q	Q	14	15	15	28	11	7	5	28.9

(*) = Value rounds to zero in the units displayed.

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A11. Year Constructed, Floorspace, 1992
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Floorspace by Year Constructed									RSE Row Factor
		1899 or Before	1900 to 1919	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1986	1987 to 1989	1990 to 1992	
RSE Column Factor:	0.4	1.5	1.6	1.1	0.9	0.9	0.7	0.9	1.5	1.2	
All Buildings	67,876	1,721	3,608	8,712	10,421	12,612	14,014	10,149	4,138	2,502	9.3
Building Floorspace (square feet)											
1,001 to 5,000	7,327	251	336	1,150	1,352	1,167	1,536	1,064	275	197	10.7
5,001 to 10,000	7,199	397	523	1,106	1,255	986	1,505	896	355	176	12.5
10,001 to 25,000	10,375	297	503	1,507	1,775	1,892	1,902	1,613	576	309	13.7
25,001 to 50,000	10,069	431	522	1,267	1,792	1,856	2,216	1,176	482	327	17.0
50,001 to 100,000	8,062	Q	319	927	1,236	1,625	1,776	1,330	387	268	17.1
100,001 to 200,000	9,678	Q	Q	1,227	1,520	2,306	1,673	1,626	444	269	23.2
200,001 to 500,000	7,889	Q	Q	707	1,011	1,444	1,988	1,207	320	670	24.7
Over 500,000	7,278	Q	Q	Q	Q	1,335	1,418	1,237	Q	285	30.5
Principal Building Activity											
Education	8,470	Q	441	1,077	1,903	2,405	1,728	480	173	253	19.4
Food Sales	757	Q	Q	Q	Q	Q	155	Q	Q	Q	35.9
Food Service	1,491	Q	Q	246	283	187	365	103	Q	Q	27.7
Health Care	1,763	Q	Q	227	152	492	544	240	Q	Q	28.8
Lodging	2,891	Q	Q	410	328	482	579	550	Q	Q	26.8
Mercantile and Service	12,402	239	422	1,381	1,883	2,680	2,607	2,109	535	545	17.1
Office	12,319	435	716	1,389	1,400	2,187	2,283	2,419	899	590	15.3
Parking Garage	1,652	Q	Q	Q	Q	Q	674	Q	Q	Q	41.1
Public Assembly	4,556	Q	142	495	346	552	1,096	461	Q	Q	25.6
Public Order and Safety	820	Q	Q	Q	Q	Q	168	Q	Q	Q	47.8
Religious Worship	3,747	267	433	355	1,088	628	505	358	Q	Q	23.9
Warehouse and Storage	11,484	Q	269	1,853	1,805	1,815	2,397	2,233	610	377	19.6
Other	1,130	Q	Q	Q	188	184	210	126	Q	Q	36.2
Vacant	4,396	Q	877	929	577	431	702	571	Q	77	28.3
Census Region											
Northeast	13,400	676	1,052	2,655	2,070	2,485	2,123	1,547	506	286	17.6
Midwest	17,280	720	1,246	2,296	2,629	2,652	4,086	2,482	500	670	15.2
South	24,577	167	788	2,646	3,898	4,914	4,940	3,950	2,367	906	16.6
West	12,619	Q	522	1,115	1,825	2,562	2,865	2,170	765	639	16.8
Energy Sources (more than one may apply)											
Electricity	66,549	1,721	3,402	8,396	10,135	12,479	13,781	10,047	4,106	2,483	9.4
Natural Gas	45,097	1,249	2,826	5,738	7,294	8,900	9,230	6,265	1,965	1,630	10.2
Fuel Oil	13,218	344	764	1,748	1,647	2,363	2,747	2,122	741	743	15.7
District Heat	5,339	91	269	1,135	566	1,419	976	532	149	202	22.5
District Chilled Water	2,066	Q	Q	Q	241	376	632	184	Q	164	33.7
Propane	3,393	Q	Q	390	401	642	786	609	201	212	27.0
Any Other	1,551	Q	Q	475	Q	Q	268	Q	Q	Q	33.5
Energy End Uses (more than one may apply)											
Heated Buildings	61,996	1,637	3,329	7,717	9,371	11,548	12,814	9,398	3,878	2,303	9.5
Air-Conditioned Buildings	57,041	1,307	2,759	6,586	8,260	10,601	12,286	9,225	3,760	2,258	10.1
Buildings with Water Heating	58,479	1,457	3,126	7,004	8,784	11,006	12,369	8,869	3,696	2,167	9.9
Buildings with Cooking	23,065	495	1,334	2,225	2,849	4,920	5,071	3,197	2,117	859	15.2
Buildings with Manufacturing	3,174	Q	Q	542	748	394	652	504	Q	Q	29.2
Predominant Exterior Wall Material											
Masonry	48,585	1,483	3,286	7,530	8,651	8,536	9,277	5,635	2,662	1,526	11.2
Siding or Shingles	3,873	193	236	588	579	560	717	716	178	105	17.2
Metal Panels	7,392	Q	Q	395	898	1,395	1,881	1,929	559	244	21.2
Concrete Panels	4,961	Q	Q	Q	Q	1,502	1,510	745	452	464	23.5
Window Glass	2,028	Q	Q	Q	Q	463	408	685	202	76	29.2
Other	1,037	Q	Q	Q	Q	Q	220	Q	Q	Q	44.3

See footnotes at end of table.

Table A11. Year Constructed, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Floorspace by Year Constructed									RSE Row Factor
		1899 or Before	1900 to 1919	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1986	1987 to 1989	1990 to 1992	
RSE Column Factor:	0.4	1.5	1.6	1.1	0.9	0.9	0.7	0.9	1.5	1.2	
Predominant Roof Material											
Built-Up	30,257	565	1,430	3,996	5,716	6,568	5,907	3,563	Q	699	13.3
Shingles (Not Wood)	10,570	523	926	1,777	1,834	1,570	2,142	1,310	283	206	15.5
Metal Surfacing	9,019	Q	Q	783	764	1,520	2,224	2,206	821	464	16.6
Synthetic or Rubber	11,702	238	710	1,262	1,436	2,139	2,545	1,688	817	868	17.9
Slate or Tile	1,998	219	289	586	260	247	Q	Q	Q	Q	25.8
Concrete	2,544	Q	Q	Q	Q	Q	751	762	199	159	36.5
Other	1,786	Q	Q	132	310	223	293	502	Q	Q	32.6
Floors											
One	25,424	Q	243	2,381	4,020	5,146	5,763	4,359	2,373	994	14.5
Two	18,025	338	869	1,964	3,168	3,872	3,661	2,789	710	654	14.8
Three	9,877	481	1,012	2,067	1,702	1,365	1,963	822	243	223	17.5
Four to Nine	10,377	743	1,257	1,810	1,283	1,310	1,812	1,085	620	457	19.9
Ten or More	4,173	Q	Q	490	249	918	815	1,094	192	174	27.1
Percent Window Glass											
25 or Less	51,356	1,269	2,765	6,983	7,858	9,341	11,287	6,989	3,164	1,701	10.5
26 to 50	11,815	426	677	1,233	2,068	2,390	1,817	2,119	597	488	18.0
51 to 75	3,206	Q	Q	479	342	468	661	625	231	215	23.7
76 to 100	1,499	Q	Q	Q	153	Q	249	417	Q	Q	35.9
Building Shape											
Square	3,654	Q	206	573	381	736	837	533	195	Q	24.1
Rectangle	39,233	1,107	1,971	5,568	5,877	7,086	8,367	5,943	1,989	1,324	9.6
Rectangle or Square with Courtyard	1,372	Q	Q	Q	Q	299	317	286	Q	Q	41.0
Right Angle	6,071	241	Q	630	1,025	1,132	1,191	816	248	220	23.1
Other	17,547	287	751	1,868	2,985	3,359	3,302	2,572	Q	787	16.8
Workers (main shift)											
Less than 5	17,944	692	993	3,053	2,922	2,807	3,165	2,177	Q	516	13.5
5 to 9	7,524	444	453	1,211	1,236	1,227	1,577	882	343	152	16.0
10 to 19	8,077	167	612	933	1,611	1,211	1,812	1,142	389	201	18.6
20 to 49	10,556	151	355	1,105	2,204	2,180	2,088	1,560	514	399	16.2
50 to 99	7,763	Q	Q	1,023	1,222	1,685	1,424	1,117	347	301	22.0
100 to 249	7,378	Q	476	484	719	1,369	1,895	1,600	469	349	24.9
250 or More	8,633	Q	Q	904	507	2,133	2,053	1,670	457	585	21.1
Weekly Operating Hours											
39 or Fewer	8,246	385	927	1,564	1,570	1,320	1,455	686	163	176	17.8
40 to 48	14,998	484	883	2,045	2,877	2,617	2,614	2,278	646	554	14.4
49 to 60	14,046	363	803	2,013	2,640	2,371	2,476	2,104	616	661	14.5
61 to 84	12,062	147	356	1,393	1,072	2,692	2,778	2,500	709	415	17.9
85 to 167	8,467	272	402	780	1,117	1,910	2,248	920	544	273	19.8
Open Continuously	10,057	Q	237	918	1,146	1,701	2,444	1,661	Q	423	21.8
Ownership and Occupancy											
Nongovernment Owned	52,752	1,589	2,704	6,653	8,056	8,571	10,776	9,056	3,550	1,798	10.1
Owner Occupied	38,403	1,224	1,978	4,783	6,237	6,737	8,024	6,328	1,785	1,307	9.3
Nonowner Occupied	12,273	332	486	1,453	1,426	1,491	2,435	2,442	Q	472	19.7
Unoccupied	2,077	Q	Q	417	393	344	317	Q	Q	Q	28.8
Government Owned	15,124	Q	904	2,059	2,365	4,041	3,237	1,093	588	704	16.9
Energy-Related Space Functions (more than one may apply)											
Commercial Food Preparation	22,166	495	1,334	2,225	2,849	4,924	5,067	3,197	1,217	859	13.6
Computer Room	14,199	Q	673	1,439	1,436	3,057	2,857	2,954	794	811	16.5
Rooms with Special Ventilation	8,042	Q	Q	1,030	1,051	1,840	1,951	995	367	437	18.4
Activity with Large Amounts of Hot Water	6,862	Q	Q	803	908	1,244	1,856	993	371	454	21.1

See footnotes at end of table.

Table A11. Year Constructed, Floorspace, 1992 (Continued)

(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Floorspace by Year Constructed									RSE Row Factor
		1899 or Before	1900 to 1919	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1986	1987 to 1989	1990 to 1992	
RSE Column Factor:	0.4	1.5	1.6	1.1	0.9	0.9	0.7	0.9	1.5	1.2	
Percent of Floorspace Heated											
Not Heated	6,211	Q	325	1,119	1,053	1,084	1,292	774	262	199	25.1
1 to 50	11,195	332	764	2,015	1,495	2,040	1,966	1,666	638	279	22.1
51 to 99	10,211	313	590	1,208	1,581	2,061	2,039	1,636	438	345	17.0
100	40,260	973	1,930	4,371	6,292	7,427	8,716	6,073	2,799	1,679	10.5
Percent of Floorspace Cooled											
Not Cooled	10,835	414	849	2,126	2,161	2,011	1,728	925	377	244	15.7
1 to 50	21,715	828	1,555	3,240	3,942	3,604	3,881	3,242	891	534	14.4
51 to 99	13,872	228	679	1,492	1,636	3,167	3,035	2,339	706	590	16.2
100	21,454	251	526	1,853	2,682	3,830	5,370	3,643	2,164	1,134	13.9
Percent Lit when Open											
Not Lit	3,280	Q	321	654	554	457	630	422	Q	Q	26.4
1 to 50	9,980	652	1,175	1,584	1,862	1,523	1,414	1,258	231	280	18.3
51 to 99	14,224	429	946	1,535	2,115	2,264	2,982	1,950	Q	413	16.1
100	40,393	560	1,166	4,939	5,890	8,369	8,988	6,519	2,226	1,737	10.4
Heating Equipment (more than one may apply)											
Heat Pumps	8,269	Q	Q	619	1,013	1,055	1,783	2,290	672	534	20.9
Furnaces	16,909	511	1,043	2,659	3,131	3,367	2,982	2,308	586	323	15.4
Individual Space Heaters	22,380	530	1,286	2,345	3,173	3,862	5,434	4,022	961	768	13.6
District Heat	5,225	91	255	1,125	545	1,363	972	524	149	202	22.8
Boilers	20,664	852	1,644	2,541	3,926	4,027	3,734	1,972	Q	544	14.6
Packaged Heating Units	16,000	Q	536	1,271	1,740	3,226	3,911	3,154	1,152	893	16.5
Other	903	Q	Q	Q	Q	Q	231	Q	Q	Q	36.4
Heating Distribution Equipment (more than one may apply)											
Radiators or Baseboards	13,263	773	1,569	2,737	2,556	2,296	1,994	839	246	252	16.1
Ducts for Heating	45,422	777	2,016	4,768	6,517	8,893	9,566	7,458	3,423	2,004	11.0
Heating Only	5,950	236	398	1,114	1,144	1,594	852	487	Q	Q	24.2
Heating and Cooling	39,472	541	1,617	3,655	5,373	7,298	8,715	6,971	3,337	1,965	11.5
Variable Air-Volume System	11,528	Q	463	624	874	2,273	2,108	2,388	Q	856	21.3
Fan Coil Units for Heating	5,474	Q	324	719	932	1,125	1,219	648	Q	186	24.5
Heating Only	3,569	Q	Q	420	817	548	686	478	Q	168	32.6
Heating and Cooling	1,906	Q	Q	298	Q	577	533	Q	Q	Q	32.0
Individual Space Heaters	22,380	530	1,286	2,345	3,173	3,862	5,434	4,022	961	768	13.6
Other	3,310	Q	Q	356	746	764	526	432	Q	Q	29.7
Cooling Equipment (more than one may apply)											
Residential-Type Central											
Air Conditioners	9,021	232	702	1,441	1,770	1,528	1,800	992	365	190	16.9
Heat Pumps	8,406	Q	193	672	963	1,170	1,807	2,224	697	562	21.0
Individual Air Conditioners	17,979	702	1,675	3,223	3,183	3,603	2,586	1,630	Q	108	17.1
District Chilled Water	2,066	Q	Q	Q	241	376	632	184	Q	164	33.7
Central Chillers	12,991	Q	242	847	1,551	3,032	3,306	1,839	Q	571	18.5
Packaged Air-Conditioning											
Units	27,830	643	1,272	2,905	3,537	5,411	6,494	4,788	1,550	1,230	12.4
Swamp Coolers	2,085	Q	Q	186	285	510	386	428	Q	Q	38.0
Other	268	Q	Q	Q	Q	Q	Q	Q	Q	Q	87.2
Cooling Distribution Equipment (more than one may apply)											
Ducts for Cooling	47,755	995	2,075	4,804	6,681	8,567	10,517	8,288	3,651	2,177	10.7
Cooling Only	8,283	454	457	1,149	1,308	1,269	1,802	1,317	315	212	19.5
Heating and Cooling	39,472	541	1,617	3,655	5,373	7,298	8,715	6,971	3,337	1,965	11.5
Variable Air-Volume System	12,430	Q	382	805	882	1,853	2,715	2,739	1,981	973	20.0
Fan Coil Units for Cooling	3,875	Q	Q	545	271	922	1,139	464	Q	89	31.4
Cooling Only	1,969	Q	Q	Q	Q	346	606	Q	Q	Q	45.9
Heating and Cooling	1,906	Q	Q	298	Q	577	533	Q	Q	Q	32.0
Individual Air Conditioners	17,979	702	1,675	3,223	3,183	3,603	2,586	1,630	Q	108	17.1
Other	2,919	Q	Q	249	284	768	1,109	282	Q	Q	37.5

See footnotes at end of table.

Table A11. Year Constructed, Floorspace, 1992 (Continued)

(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Floorspace by Year Constructed									RSE Row Factor
		1899 or Before	1900 to 1919	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1986	1987 to 1989	1990 to 1992	
RSE Column Factor:	0.4	1.5	1.6	1.1	0.9	0.9	0.7	0.9	1.5	1.2	
Lighting Equipment Types (more than one may apply)											
Incandescent	39,221	1,303	2,412	5,674	6,729	7,220	7,853	5,131	1,592	1,305	10.1
Standard Fluorescent	62,074	1,515	3,227	7,697	9,166	11,720	13,070	9,475	3,959	2,244	9.7
Compact Fluorescent	8,336	Q	349	837	639	1,764	1,958	1,425	509	719	20.7
High-Intensity Discharge	17,570	Q	504	1,798	2,116	3,382	3,734	3,503	1,180	1,217	16.3
Other	1,612	Q	Q	Q	Q	Q	293	469	Q	110	35.4
Personal Computers and/or Computer Terminals											
1 to 4	13,355	353	807	1,773	2,349	1,975	3,168	1,941	569	419	13.1
5 to 9	5,970	Q	309	442	816	1,001	1,444	1,171	381	261	18.7
10 to 19	6,236	Q	Q	807	909	1,390	1,182	1,150	340	242	25.1
20 to 49	7,439	Q	299	883	1,311	1,552	1,419	1,138	430	345	23.0
50 to 99	4,908	Q	Q	392	842	1,019	1,154	845	186	148	25.4
100 to 249	4,220	Q	Q	790	346	1,050	1,023	466	171	197	27.9
250 or More	5,569	Q	Q	374	291	1,388	1,229	1,199	411	413	26.3
Building Shell Conservation Features (more than one may apply)											
Roof or Ceiling Insulation	50,311	942	2,259	4,929	6,957	9,567	11,395	8,439	3,633	2,190	10.2
Wall Insulation	33,240	561	1,210	2,187	3,300	5,498	8,182	7,208	3,219	1,877	11.6
Storm or Multiple Glazing	29,684	1,036	1,679	3,317	3,474	4,124	5,638	5,557	3,174	1,685	12.3
Tinted, Reflective or Shading Glass	25,396	379	630	1,556	2,887	4,740	5,603	5,418	2,509	1,674	15.7
Exterior or Interior Shading or Awnings	34,071	726	1,312	3,922	4,926	6,096	6,763	5,793	2,794	1,740	12.3
Windows that Open	28,937	1,215	2,297	4,759	6,211	5,654	4,703	2,750	827	520	12.4
HVAC Conservation Features (more than one may apply)											
Variable Air-Volume System	13,970	Q	572	896	1,121	2,511	2,822	2,960	2,009	975	20.4
Economizer Cycle	18,313	Q	1,007	1,185	1,500	3,321	4,374	3,338	2,297	1,168	17.1
HVAC Maintenance	49,173	1,210	2,617	5,126	6,608	9,595	10,356	8,099	3,530	2,034	10.4
Lighting Conservation Features (more than one may apply)											
Specular Reflectors	15,241	276	739	1,752	1,676	2,865	3,476	2,556	863	1,037	15.3
Natural Lighting Control Sensors	3,072	Q	Q	Q	375	355	1,081	442	205	377	25.3
Occupancy Sensors	3,629	Q	Q	207	296	771	868	790	Q	239	25.4
Time Clock	12,104	180	371	852	1,013	1,808	2,878	2,514	Q	706	20.8
Manual Dimmer Switches	12,329	391	534	988	1,572	2,413	3,082	1,979	655	715	16.8
Other	2,596	Q	Q	Q	181	610	677	395	Q	209	29.5
Energy Conservation Features (more than one may apply)											
Any Conservation Features	64,403	1,662	3,325	7,841	9,752	12,053	13,464	9,842	4,044	2,419	9.6
Building Shell	62,056	1,620	3,269	7,532	9,484	11,695	12,754	9,463	3,902	2,338	9.8
HVAC	50,281	1,229	2,662	5,313	6,726	9,812	10,636	8,199	3,602	2,103	10.2
Lighting	29,453	659	1,368	2,943	3,384	5,219	6,680	5,052	2,519	1,627	13.1
Other	5,952	Q	406	604	677	1,247	1,430	860	325	275	20.6
Demand-Side Management Programs (more than one may apply)											
Building Shell Program	1,079	Q	Q	Q	Q	212	259	Q	Q	Q	33.9
HVAC Program	6,370	Q	189	741	629	1,497	1,637	948	340	330	22.0
Lighting Program	8,805	144	374	871	1,105	2,236	2,314	962	397	402	19.9
Other DSM Programs	6,176	Q	Q	583	701	1,729	1,457	744	352	353	25.2

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A12. Floors, Number of Buildings and Floorspace, 1992

Building Characteristics	Number of Buildings (thousand)						Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	One Floor	Two Floors	Three Floors	Four to Nine Floors	Ten or more Floors	All Buildings	One Floor	Two Floors	Three Floors	Four to Nine Floors	Ten or more Floors	
	0.5	0.8	0.8	1.1	1.4	1.8	0.6	1.0	0.9	1.1	1.2	1.6	
All Buildings	4,806	3,007	1,154	446	186	13	67,876	25,424	18,025	9,877	10,377	4,173	6.6
Building Floorspace (square feet)													
1,001 to 5,000	2,681	2,009	518	133	Q	Q	7,327	5,331	1,508	412	Q	Q	9.1
5,001 to 10,000	975	525	282	121	47	Q	7,199	3,834	2,121	898	345	Q	8.7
10,001 to 25,000	647	310	211	100	26	Q	10,375	4,916	3,434	1,630	391	Q	10.8
25,001 to 50,000	280	103	81	54	42	Q	10,069	3,634	2,913	1,960	1,538	Q	12.1
50,001 to 100,000	116	36	35	22	21	Q	8,062	2,484	2,421	1,562	1,491	Q	13.0
100,001 to 200,000	71	18	20	11	18	4	9,678	2,409	2,617	1,567	2,486	598	16.2
200,001 to 500,000	26	5	4	4	10	4	7,889	1,315	1,252	1,125	2,916	1,281	17.9
Over 500,000	9	Q	2	1	1	3	7,278	Q	1,759	723	1,134	2,159	26.1
Principal Building Activity													
Education	301	200	62	27	11	Q	8,470	2,823	2,217	2,200	1,171	Q	14.6
Food Sales	130	105	Q	Q	Q	Q	757	500	Q	Q	Q	Q	22.7
Food Service	260	165	57	31	Q	Q	1,491	763	343	226	Q	Q	16.6
Health Care	63	34	13	7	8	Q	1,763	190	152	140	925	356	26.6
Lodging	154	41	61	30	20	2	2,891	375	714	509	1,060	233	19.5
Mercantile and Service	1,272	893	259	102	18	Q	12,402	6,255	4,066	1,454	381	Q	13.1
Office	749	360	212	101	68	8	12,319	2,411	2,385	1,763	3,133	2,628	10.7
Parking Garage	24	Q	Q	Q	5	Q	1,652	Q	Q	Q	1,311	Q	31.9
Public Assembly	278	153	77	34	14	Q	4,556	Q	971	951	531	Q	18.0
Public Order and Safety	60	42	Q	Q	Q	Q	820	313	Q	Q	Q	Q	32.9
Religious Worship	366	184	145	33	Q	Q	3,747	1,073	1,788	698	Q	Q	18.2
Warehouse and Storage	761	589	139	25	8	Q	11,484	6,926	3,243	754	Q	Q	15.7
Other	69	40	18	Q	4	Q	1,130	220	476	Q	216	Q	25.4
Vacant	319	185	87	29	17	1	4,396	1,382	1,323	597	683	412	19.9
Year Constructed													
1899 or Before	169	Q	47	58	46	Q	1,721	Q	338	481	743	Q	20.3
1900 to 1919	255	52	89	75	38	Q	3,608	243	869	1,012	1,257	Q	21.4
1920 to 1945	724	323	227	135	37	3	8,712	2,381	1,964	2,067	1,810	490	13.9
1946 to 1959	880	584	214	65	15	Q	10,421	4,020	3,168	1,702	1,283	249	13.7
1960 to 1969	783	554	177	39	11	3	12,612	5,146	3,872	1,365	1,310	918	13.4
1970 to 1979	982	707	217	44	13	2	14,014	5,763	3,661	1,963	1,812	815	12.2
1980 to 1989	884	671	161	26	23	3	14,287	6,732	3,499	1,064	1,705	1,286	13.9
1990 to 1992	128	99	20	4	5	(*)	2,502	994	654	223	457	174	20.6
Census Region													
Northeast	771	329	213	153	72	4	13,400	2,834	3,564	2,807	2,847	1,348	13.7
Midwest	1,202	634	361	158	47	3	17,280	5,146	5,153	3,042	2,989	950	13.0
South	1,963	1,456	387	84	33	3	24,577	12,892	5,660	2,255	2,714	1,056	12.2
West	870	588	193	51	35	4	12,619	4,552	3,649	1,772	1,827	819	14.6
Energy Sources (more than one may apply)													
Electricity	4,616	2,848	1,132	438	185	13	66,549	24,572	17,879	9,710	10,256	4,132	6.7
Natural Gas	2,665	1,494	729	303	130	9	45,097	14,415	13,582	7,524	6,825	2,751	8.0
Fuel Oil	559	249	153	103	47	6	13,218	2,017	2,435	2,991	3,387	2,387	12.8
District Heat	95	33	18	15	27	3	5,339	488	470	744	2,263	1,374	18.6
District Chilled Water	28	8	7	4	9	1	2,066	160	234	226	848	599	28.5
Propane	337	230	76	23	Q	Q	3,393	1,503	918	641	300	Q	20.9
Any Other	163	112	32	15	Q	Q	1,551	494	465	427	Q	Q	27.0
Energy End Uses (more than one may apply)													
Heated Buildings	4,178	2,492	1,071	425	178	12	61,996	22,052	17,209	9,318	9,432	3,985	6.9
Air-Conditioned Buildings	3,502	2,065	915	354	155	12	57,041	19,852	15,749	8,622	8,755	4,063	7.2
Buildings with Water Heating	3,502	1,953	962	404	171	12	58,479	19,719	16,458	9,310	9,031	3,961	7.0
Buildings with Cooking	734	377	192	103	54	7	23,065	5,953	5,517	4,208	4,716	2,672	10.6
Buildings with Manufacturing	121	72	29	10	9	Q	3,174	1,257	998	471	401	Q	24.5

See footnotes at end of table.

Table A12. Floors, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)						Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	One Floor	Two Floors	Three Floors	Four to Nine Floors	Ten or more Floors	All Buildings	One Floor	Two Floors	Three Floors	Four to Nine Floors	Ten or more Floors	
	0.5	0.8	0.8	1.1	1.4	1.8	0.6	1.0	0.9	1.1	1.2	1.6	
Predominant Exterior Wall Material													
Masonry	3,115	1,802	824	336	145	8	48,585	17,203	13,092	7,951	8,076	2,264	7.7
Siding or Shingles	764	453	203	85	23	Q	3,873	1,705	1,333	595	186	Q	12.8
Metal Panels	745	653	82	Q	Q	Q	7,392	4,811	1,626	Q	Q	Q	14.9
Concrete Panels	87	49	18	12	8	1	4,961	1,243	1,528	673	1,096	420	21.7
Window Glass	46	20	14	5	5	2	2,028	183	168	228	379	1,070	28.1
Other	47	30	Q	Q	Q	1	1,037	279	Q	Q	Q	206	30.3
Predominant Roof Material													
Built-Up	1,642	981	405	174	74	8	30,257	10,988	7,768	4,967	4,565	1,970	9.4
Shingles (Not Wood)	1,381	781	405	148	46	Q	10,570	3,951	3,879	1,485	921	Q	10.4
Metal Surfacing	1,037	871	145	16	Q	Q	9,019	6,355	2,235	223	Q	Q	15.5
Synthetic or Rubber	386	180	108	64	30	4	11,702	2,588	2,987	2,278	2,594	1,256	13.3
Slate or Tile	155	73	35	27	19	Q	1,998	468	435	450	630	Q	22.1
Concrete	37	19	Q	4	7	1	2,544	328	Q	187	1,346	516	32.1
Other	167	102	49	13	Q	Q	1,786	747	554	288	Q	Q	25.7
Percent Window Glass													
25 or Less	4,193	2,717	981	363	127	5	51,356	22,587	13,872	7,257	6,511	1,129	7.6
26 to 50	490	240	137	63	45	5	11,815	2,293	3,526	1,805	2,671	1,521	12.4
51 to 75	94	38	28	17	8	2	3,206	380	475	730	749	872	19.9
76 to 100	29	Q	8	Q	5	1	1,499	Q	152	Q	446	651	28.4
Building Shape													
Square	280	171	77	22	8	2	3,654	1,230	698	447	547	732	18.3
Rectangle	3,659	2,381	830	312	129	8	39,233	17,350	10,179	4,125	5,567	2,012	7.6
Rectangle or Square with Courtyard	48	21	17	Q	2	Q	1,372	288	565	Q	308	Q	31.0
Right Angle	333	181	94	41	15	Q	6,071	1,833	2,147	1,233	622	Q	15.8
Other	485	252	136	64	32	3	17,547	4,724	4,436	3,889	3,332	1,166	13.3
Workers (main shift)													
Less than 5	2,718	1,922	553	193	49	Q	17,944	10,122	4,222	1,728	1,514	Q	10.5
5 to 9	895	555	230	79	31	Q	7,524	3,676	2,148	909	790	Q	12.3
10 to 19	561	290	181	57	33	Q	8,077	3,239	2,577	993	1,254	Q	13.1
20 to 49	405	175	128	74	26	Q	10,556	4,273	3,025	2,173	956	Q	11.5
50 to 99	130	47	40	25	17	Q	7,763	2,394	2,492	1,525	1,241	Q	16.7
100 to 249	64	14	18	12	18	2	7,378	1,165	2,318	1,486	2,070	338	17.8
250 or More	31	3	4	5	11	8	8,633	556	1,242	1,064	2,553	3,219	18.7
Weekly Operating Hours													
39 or Fewer	1,039	657	283	77	22	Q	8,246	3,592	2,516	1,088	706	Q	13.0
40 to 48	1,278	800	302	122	52	2	14,998	6,752	3,680	2,309	1,876	381	11.5
49 to 60	1,004	642	236	91	31	4	14,046	5,256	4,219	1,870	1,564	1,137	10.7
61 to 84	645	415	142	60	25	3	12,062	4,454	3,458	1,639	1,355	1,156	12.7
85 to 167	478	298	104	48	28	Q	8,467	2,673	2,556	1,547	1,321	Q	14.6
Open Continuously	362	196	86	49	29	3	10,057	2,697	1,598	1,423	3,555	785	14.8
Ownership and Occupancy													
Nongovernment Owned	4,206	2,626	1,022	393	154	11	52,752	21,067	14,328	6,838	7,068	3,451	7.1
Owner Occupied	3,192	1,945	805	313	122	8	38,403	13,597	11,140	5,355	5,794	2,517	7.6
Nonowner Occupied	817	542	177	66	30	2	12,273	6,536	2,697	1,262	1,029	749	13.8
Unoccupied	197	140	40	Q	Q	Q	2,077	934	491	Q	Q	Q	20.7
Government Owned	599	380	132	53	32	2	15,124	4,357	3,697	3,039	3,309	722	12.9
Lighting Equipment Types (more than one may apply)													
Incandescent	2,509	1,293	744	317	143	11	39,221	10,327	11,064	7,073	7,278	3,478	7.7
Standard Fluorescent	4,065	2,439	1,033	404	176	13	62,074	21,851	17,252	9,453	9,523	3,994	6.7
Compact Fluorescent	206	93	44	35	30	5	8,336	1,204	1,776	1,189	2,498	1,667	15.2
High-Intensity Discharge	354	183	111	30	26	4	17,570	4,781	5,174	2,683	3,263	1,668	11.6
Other	78	47	23	Q	Q	Q	1,612	639	359	Q	Q	Q	27.9

See footnotes at end of table.

Table A12. Floors, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)						Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	One Floor	Two Floors	Three Floors	Four to Nine Floors	Ten or more Floors	All Buildings	One Floor	Two Floors	Three Floors	Four to Nine Floors	Ten or more Floors	
	0.5	0.8	0.8	1.1	1.4	1.8	0.6	1.0	0.9	1.1	1.2	1.6	
Building Shell Conservation Features (more than one may apply)													
Roof or Ceiling Insulation	3,343	2,010	857	330	137	9	50,311	18,135	14,282	7,957	6,810	3,128	7.0
Wall Insulation	2,320	1,434	600	195	84	6	33,240	12,123	9,741	4,581	4,326	2,469	8.5
Storm or Multiple Glazing	1,680	796	498	265	114	7	29,684	8,610	8,019	5,358	5,368	2,329	9.1
Tinted, Reflective or Shading Glass	1,068	604	300	103	53	8	25,396	7,551	6,991	3,749	4,340	2,765	10.7
Exterior or Interior Shading or Awnings	1,853	992	530	223	99	9	34,071	10,608	9,124	5,459	5,945	2,935	8.5
Windows that Open	2,119	1,159	547	276	130	6	28,937	8,652	7,540	5,499	5,615	1,632	9.3
HVAC Conservation Features (more than one may apply)													
Variable Air-Volume System	250	111	67	33	32	6	13,970	2,678	3,071	2,315	3,424	2,482	14.7
Economizer Cycle	414	176	129	61	41	8	18,313	3,944	4,629	3,045	3,772	2,923	12.3
HVAC Maintenance	2,503	1,357	687	305	140	13	49,173	14,958	13,699	8,222	8,204	4,091	7.5
Lighting Conservation Features (more than one may apply)													
Specular Reflectors	574	282	169	78	39	6	15,241	3,717	3,893	2,616	3,135	1,880	12.3
Natural Lighting Control Sensors	74	28	23	12	10	1	3,072	383	874	431	1,058	326	21.8
Occupancy Sensors	59	23	19	8	7	1	3,629	407	827	400	1,189	806	20.6
Time Clock	339	137	115	54	28	4	12,104	2,746	3,264	2,141	2,247	1,707	15.9
Manual Dimmer Switches	413	143	143	69	53	5	12,329	1,375	3,648	2,056	3,284	1,967	12.8
Other	78	34	23	10	11	1	2,596	529	595	389	789	294	20.9
Energy Conservation Features (more than one may apply)													
Any Conservation Features	4,357	2,620	1,105	435	184	13	64,403	22,938	17,520	9,776	9,997	4,173	6.9
Building Shell	4,223	2,530	1,077	424	179	13	62,056	22,066	17,097	9,558	9,289	4,046	6.9
HVAC	2,604	1,414	719	313	145	13	50,281	15,331	14,092	8,398	8,360	4,100	7.3
Lighting	1,178	541	368	166	93	10	29,453	7,256	7,994	5,049	5,841	3,313	9.4
Other	264	128	82	36	15	2	5,952	1,563	1,866	873	1,182	468	15.4

(*) = Value rounds to zero in the units displayed.

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A13. Predominant Exterior Wall Material, Number of Buildings, 1992
(Thousand)

Building Characteristics	Buildings by Exterior Wall Material							RSE Row Factor
	All Buildings	Masonry	Siding or Shingles	Metal Panels	Concrete Panels	Window Glass	Other	
	0.4	0.5	0.9	1.0	1.3	1.8	2.3	
All Buildings	4,806	3,115	764	745	87	46	47	8.4
Building Floorspace (square feet)								
1,001 to 5,000	2,681	1,573	595	457	Q	Q	Q	10.8
5,001 to 10,000	975	675	105	155	14	Q	Q	12.3
10,001 to 25,000	647	488	48	85	20	Q	Q	13.6
25,001 to 50,000	280	211	13	31	16	8	Q	18.8
50,001 to 100,000	116	94	Q	6	11	Q	Q	16.9
100,001 to 200,000	71	48	Q	8	8	2	Q	22.4
200,001 to 500,000	26	19	Q	1	4	1	Q	22.2
Over 500,000	9	7	Q	1	1	1	Q	41.2
Principal Building Activity								
Education	301	233	43	17	4	Q	Q	21.8
Food Sales	130	99	Q	Q	Q	Q	Q	32.7
Food Service	260	186	60	Q	Q	Q	Q	19.5
Health Care	63	47	Q	Q	Q	Q	Q	33.3
Lodging	154	114	34	Q	Q	Q	Q	25.7
Mercantile and Service	1,272	805	176	250	14	Q	Q	12.2
Office	749	542	122	44	15	14	12	15.3
Parking Garage	24	14	Q	Q	Q	Q	Q	59.6
Public Assembly	278	186	56	26	Q	Q	Q	20.0
Public Order and Safety	60	47	Q	Q	Q	Q	Q	41.9
Religious Worship	366	264	89	Q	Q	Q	Q	21.2
Warehouse and Storage	761	326	93	303	27	Q	Q	15.4
Other	69	43	Q	21	Q	Q	Q	38.5
Vacant	319	210	55	39	5	Q	Q	21.5
Year Constructed								
1899 or Before	169	126	43	Q	Q	Q	Q	27.3
1900 to 1919	255	189	60	Q	Q	Q	Q	22.5
1920 to 1945	724	528	137	48	Q	Q	Q	15.6
1946 to 1959	880	667	121	71	Q	Q	Q	14.9
1960 to 1969	783	548	106	106	14	6	Q	16.7
1970 to 1979	982	550	141	229	27	18	17	13.9
1980 to 1989	884	447	132	255	27	9	13	13.9
1990 to 1992	128	61	26	33	6	Q	Q	29.0
Census Region								
Northeast	771	503	176	68	6	12	6	18.4
Midwest	1,202	759	198	215	12	Q	9	16.6
South	1,963	1,261	257	372	36	18	19	13.3
West	870	592	133	90	34	8	13	20.4
Energy Sources (more than one may apply)								
Electricity	4,616	3,035	715	691	85	43	46	8.3
Natural Gas	2,665	1,951	320	292	50	27	26	10.7
Fuel Oil	559	373	114	48	5	9	10	18.9
District Heat	95	77	Q	6	7	1	Q	26.4
District Chilled Water	28	25	Q	Q	2	Q	Q	35.9
Propane	337	155	101	74	Q	Q	Q	25.1
Any Other	163	73	41	45	Q	Q	Q	24.7
Energy End Uses (more than one may apply)								
Heated Buildings	4,178	2,850	635	533	76	41	42	8.5
Air-Conditioned Buildings	3,502	2,491	473	394	71	38	35	8.8
Buildings with Water Heating	3,502	2,465	514	380	74	39	30	8.7
Buildings with Cooking	734	546	125	31	15	15	1	15.3
Buildings with Manufacturing	121	74	Q	28	6	Q	Q	28.0

See footnotes at end of table.

Table A13. Predominant Exterior Wall Material, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	Buildings by Exterior Wall Material						RSE Row Factor
		Masonry	Siding or Shingles	Metal Panels	Concrete Panels	Window Glass	Other	
RSE Column Factor:	0.4	0.5	0.9	1.0	1.3	1.8	2.3	
Predominant Roof Material								
Built-Up	1,642	1,470	68	29	46	18	11	14.3
Shingles (Not Wood)	1,381	865	448	39	6	Q	Q	15.4
Metal Surfacing	1,037	209	136	660	17	Q	Q	16.0
Synthetic or Rubber	386	318	39	5	12	8	Q	22.1
Slate or Tile	155	124	30	Q	Q	Q	Q	24.5
Concrete	37	32	Q	Q	4	Q	Q	46.4
Other	167	97	42	Q	Q	Q	Q	30.1
Percent Window Glass								
25 or Less	4,193	2,662	694	724	75	Q	36	8.6
26 to 50	490	376	61	20	11	16	Q	17.0
51 to 75	94	62	Q	Q	1	20	Q	26.8
76 to 100	29	15	Q	Q	Q	9	4	32.5
Building Shape								
Square	280	193	43	32	5	Q	Q	21.1
Rectangle	3,659	2,300	586	647	64	34	29	9.2
Rectangle or Square with Courtyard	48	39	Q	Q	Q	Q	Q	45.8
Right Angle	333	247	49	28	7	Q	Q	18.3
Other	485	336	84	33	12	8	13	17.2
Ownership and Occupancy								
Nongovernment Owned	4,206	2,707	675	669	75	38	43	8.8
Owner Occupied	3,192	2,015	548	525	42	25	39	9.8
Nonowner Occupied	817	570	87	115	29	11	4	16.3
Unoccupied	197	122	39	29	Q	Q	Q	25.0
Government Owned	599	408	90	75	13	9	Q	17.5
Building Shell Conservation Features (more than one may apply)								
Roof or Ceiling Insulation	3,343	2,222	523	477	62	28	33	9.7
Wall Insulation	2,320	1,292	476	452	46	22	32	10.5
Storm or Multiple Glazing	1,680	1,134	343	148	26	13	15	12.0
Tinted, Reflective or Shading Glass	1,068	797	116	86	40	21	9	14.2
Exterior or Interior Shading or Awnings	1,853	1,300	301	164	37	28	23	11.1
Windows that Open	2,119	1,393	458	232	14	6	Q	12.2
HVAC Conservation Features (more than one may apply)								
Variable Air-Volume System	250	188	21	16	12	9	4	19.1
Economizer Cycle	414	305	34	39	17	10	10	17.1
HVAC Maintenance	2,503	1,769	344	271	61	31	27	9.8
Lighting Conservation Features (more than one may apply)								
Specular Reflectors	574	366	74	103	22	7	2	16.9
Natural Lighting Control Sensors	74	51	Q	Q	3	3	Q	31.9
Occupancy Sensors	59	38	Q	Q	4	Q	Q	29.2
Time Clock	339	256	34	14	14	12	9	19.4
Manual Dimmer Switches	413	301	86	9	9	5	Q	19.3
Other	78	50	Q	Q	5	Q	Q	33.7
Energy Conservation Features (more than one may apply)								
Any Conservation Features	4,357	2,905	696	587	83	41	44	8.8
Building Shell	4,223	2,821	683	560	77	39	42	8.9
HVAC	2,604	1,838	356	289	63	31	27	9.5
Lighting	1,178	810	171	124	40	17	16	11.5
Other	264	176	47	31	4	Q	Q	23.1

See footnotes at end of table.

Table A13. Predominant Exterior Wall Material, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	Buildings by Exterior Wall Material						RSE Row Factor
		Masonry	Siding or Shingles	Metal Panels	Concrete Panels	Window Glass	Other	
RSE Column Factor:	0.4	0.5	0.9	1.0	1.3	1.8	2.3	
Demand-Side Management Programs (more than one may apply)								
Building Shell Program	36	25	Q	Q	Q	Q	Q	43.3
HVAC Program	154	113	16	14	5	2	Q	24.8
Lighting Program	228	157	34	20	8	4	5	22.4
Other DSM Programs	110	84	Q	9	5	1	Q	25.5

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A14. Predominant Exterior Wall Material, Floorspace, 1992
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Floorspace by Exterior Wall Material						RSE Row Factor
		Masonry	Siding or Shingles	Metal Panels	Concrete Panels	Window Glass	Other	
RSE Column Factor:	0.4	0.5	0.9	1.1	1.4	1.4	2.2	
All Buildings	67,876	48,585	3,873	7,392	4,961	2,028	1,037	9.1
Building Floorspace (square feet)								
1,001 to 5,000	7,327	4,401	1,536	1,255	Q	Q	Q	10.2
5,001 to 10,000	7,199	5,001	730	1,158	108	Q	Q	11.4
10,001 to 25,000	10,375	7,867	750	1,345	325	Q	Q	12.3
25,001 to 50,000	10,069	7,545	469	1,120	576	283	Q	19.0
50,001 to 100,000	8,062	6,552	Q	426	736	Q	Q	16.0
100,001 to 200,000	9,678	6,649	Q	1,158	1,033	286	Q	21.8
200,001 to 500,000	7,889	5,666	Q	366	1,282	377	Q	22.9
Over 500,000	7,278	4,905	Q	565	Q	726	Q	37.7
Principal Building Activity								
Education	8,470	7,714	120	145	379	Q	Q	19.8
Food Sales	757	607	Q	Q	Q	Q	Q	32.8
Food Service	1,491	1,156	282	Q	Q	Q	Q	23.7
Health Care	1,763	1,587	Q	Q	Q	Q	Q	26.5
Lodging	2,891	2,412	230	Q	Q	Q	Q	25.7
Mercantile and Service	12,402	9,035	686	1,567	886	Q	Q	16.6
Office	12,319	7,717	724	782	1,203	1,394	499	15.5
Parking Garage	1,652	1,329	Q	Q	230	Q	Q	47.8
Public Assembly	4,556	3,471	405	379	Q	Q	Q	44.8
Public Order and Safety	820	627	Q	Q	Q	Q	Q	51.3
Religious Worship	3,747	3,216	440	Q	Q	Q	Q	24.6
Warehouse and Storage	11,484	5,995	518	3,629	1,154	Q	Q	18.2
Other	1,130	636	Q	258	Q	Q	Q	34.3
Vacant	4,396	3,082	274	418	235	Q	Q	26.1
Year Constructed								
1899 or Before	1,721	1,483	193	Q	Q	Q	Q	26.8
1900 to 1919	3,608	3,286	236	Q	Q	Q	Q	28.4
1920 to 1945	8,712	7,530	588	395	Q	Q	Q	21.3
1946 to 1959	10,421	8,651	579	898	Q	Q	Q	20.7
1960 to 1969	12,612	8,536	560	1,395	1,502	463	Q	20.1
1970 to 1979	14,014	9,277	717	1,881	1,510	408	220	14.1
1980 to 1989	14,287	8,296	894	2,488	1,197	887	524	16.1
1990 to 1992	2,502	1,526	105	244	464	76	Q	20.9
Census Region								
Northeast	13,400	9,981	1,008	930	1,003	372	106	18.8
Midwest	17,280	12,914	1,017	1,774	741	524	310	15.4
South	24,577	17,174	1,052	3,900	1,461	709	281	15.2
West	12,619	8,517	796	789	1,755	423	Q	17.7
Energy Sources (more than one may apply)								
Electricity	66,549	47,832	3,647	7,131	4,906	2,008	1,024	9.2
Natural Gas	45,097	34,380	1,965	3,455	3,557	1,024	716	10.8
Fuel Oil	13,218	9,622	631	699	1,077	839	350	15.1
District Heat	5,339	3,769	Q	331	699	Q	Q	25.3
District Chilled Water	2,066	1,630	Q	Q	221	Q	Q	29.1
Propane	3,393	2,042	453	742	Q	Q	Q	24.9
Any Other	1,551	1,123	138	198	Q	Q	Q	30.7
Energy End Uses (more than one may apply)								
Heated Buildings	61,996	45,520	3,303	5,682	4,663	1,839	988	9.4
Air-Conditioned Buildings	57,041	42,084	2,625	4,854	4,563	1,978	938	9.9
Buildings with Water Heating	58,479	43,361	2,908	4,844	4,595	1,831	940	9.6
Buildings with Cooking	23,065	18,177	911	677	1,998	993	309	16.0
Buildings with Manufacturing	3,174	2,112	Q	617	298	Q	Q	26.0

See footnotes at end of table.

Table A14. Predominant Exterior Wall Material, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Floorspace by Exterior Wall Material						RSE Row Factor
		Masonry	Siding or Shingles	Metal Panels	Concrete Panels	Window Glass	Other	
RSE Column Factor:	0.4	0.5	0.9	1.1	1.4	1.4	2.2	
Predominant Roof Material								
Built-Up	30,257	24,929	507	1,097	2,417	768	540	15.8
Shingles (Not Wood)	10,570	7,856	2,011	191	190	Q	Q	16.0
Metal Surfacing	9,019	2,162	787	5,512	385	Q	Q	16.8
Synthetic or Rubber	11,702	8,832	187	345	1,498	675	165	19.6
Slate or Tile	1,998	1,801	167	Q	Q	Q	Q	26.9
Concrete	2,544	1,952	Q	Q	346	Q	Q	39.7
Other	1,786	1,054	206	Q	Q	Q	Q	29.9
Percent Window Glass								
25 or Less	51,356	36,972	3,282	7,026	3,639	Q	358	9.5
26 to 50	11,815	9,265	502	257	1,157	316	Q	20.1
51 to 75	3,206	1,923	Q	Q	135	820	Q	18.4
76 to 100	1,499	426	Q	Q	Q	813	224	29.5
Building Shape								
Square	3,654	2,733	193	229	202	Q	Q	19.7
Rectangle	39,233	26,511	2,655	5,820	2,673	1,115	458	10.0
Rectangle or Square with Courtyard	1,372	1,105	Q	Q	Q	Q	Q	37.7
Right Angle	6,071	4,836	272	560	310	Q	Q	23.2
Other	17,547	13,400	713	711	1,705	523	495	18.5
Ownership and Occupancy								
Nongovernment Owned	52,752	36,656	3,519	6,591	3,235	1,736	1,015	9.6
Owner Occupied	38,403	26,445	2,935	5,126	1,890	1,202	804	9.9
Nonowner Occupied	12,273	8,944	394	1,197	1,166	380	192	17.9
Unoccupied	2,077	1,267	190	268	Q	Q	Q	30.6
Government Owned	15,124	11,929	354	801	1,726	292	Q	18.7
Building Shell Conservation Features (more than one may apply)								
Roof or Ceiling Insulation	50,311	36,344	2,783	5,129	3,871	1,413	771	9.7
Wall Insulation	33,240	21,698	2,499	4,779	2,250	1,163	850	10.4
Storm or Multiple Glazing	29,684	21,861	2,044	2,319	1,989	991	481	11.9
Tinted, Reflective or Shading Glass	25,396	17,813	804	1,557	3,102	1,401	719	14.4
Exterior or Interior Shading or Awnings	34,071	25,497	1,744	2,148	2,617	1,333	732	10.6
Windows that Open	28,937	22,916	2,050	2,227	1,312	239	Q	16.3
HVAC Conservation Features (more than one may apply)								
Variable Air-Volume System	13,970	9,433	195	720	1,934	1,120	568	20.7
Economizer Cycle	18,313	12,976	411	1,069	2,316	1,070	472	16.6
HVAC Maintenance	49,173	36,110	2,189	3,869	4,195	1,938	872	10.4
Lighting Conservation Features (more than one may apply)								
Specular Reflectors	15,241	9,954	666	1,741	1,891	737	253	14.9
Natural Lighting Control Sensors	3,072	2,253	Q	Q	339	159	Q	22.1
Occupancy Sensors	3,629	2,100	Q	Q	609	296	Q	20.2
Time Clock	12,104	8,270	368	411	1,665	836	554	21.9
Manual Dimmer Switches	12,329	8,681	771	387	1,257	962	271	19.2
Other	2,596	1,748	Q	Q	416	Q	Q	24.0
Energy Conservation Features (more than one may apply)								
Any Conservation Features	64,403	46,720	3,562	6,355	4,754	2,000	1,011	9.3
Building Shell	62,056	45,091	3,510	6,093	4,485	1,879	999	9.3
HVAC	50,281	37,029	2,238	3,995	4,209	1,938	872	10.2
Lighting	29,453	20,672	1,373	2,052	3,120	1,492	744	12.7
Other	5,952	4,601	298	516	317	152	Q	19.2

See footnotes at end of table.

Table A14. Predominant Exterior Wall Material, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Floorspace by Exterior Wall Material						RSE Row Factor
		Masonry	Siding or Shingles	Metal Panels	Concrete Panels	Window Glass	Other	
RSE Column Factor:	0.4	0.5	0.9	1.1	1.4	1.4	2.2	
Demand-Side Management Programs (more than one may apply)								
Building Shell Program	1,079	793	Q	Q	Q	Q	Q	35.4
HVAC Program	6,370	4,528	213	328	779	335	Q	24.0
Lighting Program	8,805	6,074	316	406	1,342	399	269	18.1
Other DSM Programs	6,176	4,084	Q	283	1,285	317	Q	21.8

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A15. Predominant Roof Material, Number of Buildings, 1992
(Thousand)

Building Characteristics	Buildings by Roof Material								RSE Row Factor
	All Buildings	Built-Up	Shingles (Not Wood)	Metal Surfacing	Synthetic or Rubber Roofing	Slate or Tile	Concrete	Other	
	0.4	0.6	0.7	0.9	0.9	1.4	2.6	1.7	
All Buildings	4,806	1,642	1,381	1,037	386	155	37	167	7.7
Building Floorspace (square feet)									
1,001 to 5,000	2,681	772	927	648	140	75	Q	108	11.5
5,001 to 10,000	975	369	250	209	79	38	Q	29	11.6
10,001 to 25,000	647	265	137	122	75	25	Q	15	12.9
25,001 to 50,000	280	124	49	39	39	12	Q	11	17.0
50,001 to 100,000	116	55	11	11	30	4	Q	Q	20.4
100,001 to 200,000	71	41	5	8	11	Q	3	Q	22.5
200,001 to 500,000	26	12	1	Q	10	Q	2	Q	22.7
Over 500,000	9	5	Q	Q	2	Q	1	Q	36.9
Principal Building Activity									
Education	301	127	68	34	41	16	Q	14	20.0
Food Sales	130	62	29	Q	Q	Q	Q	Q	32.9
Food Service	260	109	77	29	20	Q	Q	Q	22.2
Health Care	63	25	19	Q	6	Q	Q	Q	37.8
Lodging	154	56	66	Q	9	10	Q	Q	24.3
Mercantile and Service	1,272	490	285	330	102	Q	Q	44	11.3
Office	749	279	258	63	85	34	Q	28	14.5
Parking Garage	24	Q	Q	Q	Q	Q	7	Q	24.8
Public Assembly	278	62	107	44	26	18	Q	19	19.6
Public Order and Safety	60	20	Q	Q	8	Q	Q	Q	34.2
Religious Worship	366	37	256	29	Q	25	Q	Q	21.3
Warehouse and Storage	761	219	113	362	36	Q	Q	Q	16.0
Other	69	16	Q	24	12	Q	Q	Q	36.4
Vacant	319	138	70	75	20	Q	Q	Q	20.1
Year Constructed									
1899 or Before	169	53	56	Q	20	17	Q	Q	25.7
1900 to 1919	255	93	93	Q	26	14	Q	Q	22.8
1920 to 1945	724	294	222	75	62	33	Q	33	16.1
1946 to 1959	880	375	269	99	79	25	Q	27	15.9
1960 to 1969	783	328	206	146	55	22	6	20	14.7
1970 to 1979	982	287	285	285	59	Q	7	40	13.4
1980 to 1989	884	195	217	345	67	22	12	27	14.2
1990 to 1992	128	17	33	50	17	Q	1	Q	27.7
Census Region									
Northeast	771	226	278	106	100	40	2	19	14.5
Midwest	1,202	346	369	269	152	23	5	38	14.6
South	1,963	665	532	537	98	45	20	65	12.7
West	870	405	202	126	35	47	9	46	19.0
Energy Sources (more than one may apply)									
Electricity	4,616	1,596	1,347	947	378	153	35	160	7.6
Natural Gas	2,665	1,042	755	404	267	87	17	92	9.2
Fuel Oil	559	169	190	85	73	22	2	16	18.3
District Heat	95	40	10	11	14	13	Q	Q	26.9
District Chilled Water	28	11	Q	Q	6	Q	Q	Q	36.0
Propane	337	55	137	112	14	Q	Q	Q	25.6
Any Other	163	29	50	59	Q	Q	Q	Q	25.8
Energy End Uses (more than one may apply)									
Heated Buildings	4,178	1,489	1,246	763	368	140	22	150	7.6
Air-Conditioned Buildings	3,502	1,319	1,025	576	318	113	27	124	8.3
Buildings with Water Heating	3,502	1,284	1,044	554	328	136	20	135	8.0
Buildings with Cooking	734	285	232	74	80	22	7	33	13.3
Buildings with Manufacturing	121	50	18	36	13	Q	Q	Q	28.7

See footnotes at end of table.

Table A15. Predominant Roof Material, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	Buildings by Roof Material								RSE Row Factor
	All Buildings	Built-Up	Shingles (Not Wood)	Metal Surfacing	Synthetic or Rubber Roofing	Slate or Tile	Concrete	Other	
RSE Column Factor:	0.4	0.6	0.7	0.9	0.9	1.4	2.6	1.7	
Predominant Exterior Wall Material									
Masonry	3,115	1,470	865	209	318	124	32	97	8.7
Siding or Shingles	764	68	448	136	39	30	Q	42	17.2
Metal Panels	745	29	39	660	5	Q	Q	Q	24.1
Concrete Panels	87	46	6	17	12	Q	4	Q	27.9
Window Glass	46	18	Q	Q	8	Q	Q	Q	46.5
Other	47	11	Q	Q	Q	Q	Q	Q	52.8
Percent Window Glass									
25 or Less	4,193	1,369	1,231	1,003	302	115	33	139	8.0
26 to 50	490	222	115	30	67	34	2	21	14.1
51 to 75	94	39	31	Q	13	Q	Q	Q	30.2
76 to 100	29	13	Q	Q	3	Q	Q	Q	40.4
Building Shape									
Square	280	121	61	54	27	Q	1	Q	20.6
Rectangle	3,659	1,213	1,027	884	271	111	30	124	8.6
Rectangle or Square with Courtyard	48	22	Q	Q	Q	Q	Q	Q	44.2
Right Angle	333	112	120	41	35	Q	Q	15	17.0
Other	485	174	164	53	47	26	Q	18	15.8
Ownership and Occupancy									
Nongovernment Owned	4,206	1,427	1,264	921	298	131	30	137	8.0
Owner Occupied	3,192	958	1,059	697	234	104	21	119	8.7
Nonowner Occupied	817	392	164	165	55	22	7	13	15.5
Unoccupied	197	76	41	59	Q	Q	Q	Q	23.7
Government Owned	599	216	118	116	88	24	7	30	15.6
Building Shell Conservation Features (more than one may apply)									
Roof or Ceiling Insulation	3,343	1,120	1,010	682	291	106	18	116	8.2
Wall Insulation	2,320	611	745	609	176	73	11	94	9.6
Storm or Multiple Glazing	1,680	465	614	254	200	74	6	68	10.8
Tinted, Reflective or Shading Glass	1,068	445	278	147	121	30	12	36	12.8
Exterior or Interior Shading or Awnings	1,853	720	547	258	196	73	5	54	10.6
Windows that Open	2,119	599	822	352	156	92	10	89	10.4
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	250	109	49	22	43	16	Q	7	18.7
Economizer Cycle	414	166	83	51	75	16	4	20	16.6
HVAC Maintenance	2,503	960	677	384	265	105	17	95	9.3
Lighting Conservation Features (more than one may apply)									
Specular Reflectors	574	197	131	137	63	20	3	23	15.7
Natural Lighting Control Sensors	74	31	20	Q	4	Q	Q	Q	32.0
Occupancy Sensors	59	29	Q	Q	10	Q	Q	Q	28.7
Time Clock	339	164	81	30	34	13	5	12	18.2
Manual Dimmer Switches	413	129	155	32	52	24	Q	19	17.0
Other	78	30	16	Q	14	Q	Q	Q	31.8

See footnotes at end of table.

Table A15. Predominant Roof Material, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	Buildings by Roof Material							RSE Row Factor
		Built-Up	Shingles (Not Wood)	Metal Surfacing	Synthetic or Rubber Roofing	Slate or Tile	Concrete	Other	
RSE Column Factor:	0.4	0.6	0.7	0.9	0.9	1.4	2.6	1.7	
Energy Conservation Features (more than one may apply)									
Any Conservation Features	4,357	1,512	1,281	853	373	149	32	157	8.0
Building Shell	4,223	1,449	1,266	821	363	146	25	152	8.1
HVAC	2,604	998	712	401	270	107	17	98	9.1
Lighting	1,178	426	327	196	124	50	9	45	10.6
Other	264	78	79	44	35	10	Q	14	19.8
Demand-Side Management Programs (more than one may apply)									
Building Shell Program	36	8	Q	Q	6	Q	Q	Q	41.3
HVAC Program	154	66	24	26	23	6	Q	Q	22.3
Lighting Program	228	80	58	27	37	12	Q	12	20.1
Other DSM Programs	110	43	20	17	19	Q	Q	Q	29.0

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A16. Predominant Roof Material, Floorspace, 1992
(Million Square Feet)

Building Characteristics	Total Floorspace or All Buildings	Floorspace by Roof Material							RSE Row Factor
		Built-Up	Shingles (Not Wood)	Metal Surfacing	Synthetic or Rubber Roofing	Slate or Tile	Concrete	Other	
RSE Column Factor:	0.4	0.7	0.9	0.9	0.8	1.5	2.3	1.6	
All Buildings	67,876	30,257	10,570	9,019	11,702	1,998	2,544	1,786	8.6
Building Floorspace (square feet)									
1,001 to 5,000	7,327	2,170	2,463	1,776	391	215	Q	284	11.9
5,001 to 10,000	7,199	2,752	1,791	1,569	592	275	Q	203	11.5
10,001 to 25,000	10,375	4,357	2,149	1,899	1,258	357	Q	234	12.5
25,001 to 50,000	10,069	4,407	1,797	1,391	1,451	445	Q	379	17.0
50,001 to 100,000	8,062	3,873	777	781	2,013	275	Q	(*)	19.5
100,001 to 200,000	9,678	5,456	648	1,082	1,557	Q	499	Q	22.5
200,001 to 500,000	7,889	3,446	466	Q	2,912	Q	486	Q	22.8
Over 500,000	7,278	3,796	Q	Q	1,528	Q	1,001	Q	33.7
Principal Building Activity									
Education	8,470	4,272	746	403	2,322	364	Q	254	19.6
Food Sales	757	375	161	Q	Q	Q	Q	Q	34.3
Food Service	1,491	590	436	96	207	Q	Q	Q	27.2
Health Care	1,763	1,062	123	Q	507	Q	Q	Q	29.0
Lodging	2,891	1,191	782	Q	538	225	Q	Q	27.7
Mercantile and Service	12,402	5,898	1,569	2,093	2,126	Q	Q	286	17.0
Office	12,319	5,525	1,891	934	2,995	269	255	450	16.8
Parking Garage	1,652	Q	Q	Q	Q	Q	1,136	Q	29.3
Public Assembly	4,556	2,138	864	588	597	183	Q	129	31.5
Public Order and Safety	820	362	Q	Q	(*)	Q	Q	Q	48.9
Religious Worship	3,747	636	2,128	159	Q	580	Q	Q	26.6
Warehouse and Storage	11,484	5,409	911	3,569	1,105	Q	Q	Q	19.2
Other	1,130	378	Q	302	255	Q	Q	Q	34.6
Vacant	4,396	2,055	686	615	519	Q	Q	Q	30.0
Year Constructed									
1899 or Before	1,721	565	523	Q	238	219	Q	Q	29.0
1900 to 1919	3,608	1,430	926	Q	710	289	Q	Q	30.4
1920 to 1945	8,712	3,996	1,777	783	1,262	586	Q	132	20.6
1946 to 1959	10,421	5,716	1,834	764	1,436	260	Q	310	18.1
1960 to 1969	12,612	6,568	1,570	1,520	2,139	247	Q	223	19.5
1970 to 1979	14,014	5,907	2,142	2,224	2,545	Q	751	293	14.3
1980 to 1989	14,287	5,376	1,593	3,027	2,504	206	960	620	17.4
1990 to 1992	2,502	699	206	464	868	Q	159	Q	21.4
Census Region									
Northeast	13,400	4,889	2,434	853	3,757	526	556	384	17.6
Midwest	17,280	6,375	3,213	2,064	4,318	385	Q	361	14.5
South	24,577	11,653	3,168	5,098	2,615	577	917	551	14.9
West	12,619	7,341	1,755	1,004	1,012	511	506	490	17.1
Energy Sources (more than one may apply)									
Electricity	66,549	29,764	10,321	8,639	11,595	1,990	2,505	1,735	8.8
Natural Gas	45,097	21,299	6,515	4,313	9,387	1,309	1,152	1,122	10.5
Fuel Oil	13,218	5,791	1,684	675	3,760	309	680	319	16.9
District Heat	5,339	2,413	459	329	1,477	400	Q	Q	27.0
District Chilled Water	2,066	969	Q	Q	626	Q	Q	Q	35.9
Propane	3,393	1,068	699	858	403	Q	Q	Q	27.8
Any Other	1,551	724	281	269	Q	Q	Q	Q	33.2
Energy End Uses (more than one may apply)									
Heated Buildings	61,996	28,271	9,764	7,121	11,541	1,863	1,741	1,695	9.2
Air-Conditioned Buildings	57,041	26,404	8,606	6,077	10,893	1,608	1,909	1,544	9.6
Buildings with Water Heating	58,479	27,321	8,942	5,991	11,207	1,889	1,538	1,591	9.4
Buildings with Cooking	23,065	11,267	2,927	1,153	6,039	675	570	435	16.0
Buildings with Manufacturing	3,174	1,712	185	651	444	Q	Q	Q	29.4

See footnotes at end of table.

Table A16. Predominant Roof Material, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace or All Buildings	Floorspace by Roof Material							RSE Row Factor
		Built-Up	Shingles (Not Wood)	Metal Surfacing	Synthetic or Rubber Roofing	Slate or Tile	Concrete	Other	
		0.4	0.7	0.9	0.9	0.8	1.5	2.3	
Predominant Exterior Wall Material									
Masonry	48,585	24,929	7,856	2,162	8,832	1,801	1,952	1,054	10.7
Siding or Shingles	3,873	507	2,011	787	187	167	Q	206	17.4
Metal Panels	7,392	1,097	191	5,512	345	Q	Q	Q	24.1
Concrete Panels	4,961	2,417	190	385	1,498	Q	346	Q	28.1
Window Glass	2,028	768	Q	Q	675	Q	Q	Q	31.0
Other	1,037	540	Q	Q	165	Q	Q	Q	53.3
Percent Window Glass									
25 or Less	51,356	22,455	8,542	8,623	7,245	1,361	1,782	1,349	9.8
26 to 50	11,815	5,461	1,424	302	3,155	503	590	379	18.0
51 to 75	3,206	1,664	361	Q	895	Q	Q	Q	25.3
76 to 100	1,499	677	Q	Q	407	Q	Q	Q	31.3
Building Shape									
Square	3,654	1,656	439	402	785	Q	Q	Q	24.2
Rectangle	39,233	16,439	6,248	7,141	5,664	1,042	1,623	1,076	9.8
Rectangle or Square with Courtyard	1,372	827	Q	Q	Q	Q	Q	Q	36.0
Right Angle	6,071	2,587	1,383	684	1,170	Q	Q	150	23.0
Other	17,547	8,749	2,347	776	3,941	744	553	437	17.1
Ownership and Occupancy									
Nongovernment Owned	52,752	23,928	9,166	7,817	7,271	1,546	1,638	1,387	9.1
Owner Occupied	38,403	15,568	7,642	6,013	5,401	1,352	1,335	1,091	9.3
Nonowner Occupied	12,273	7,450	1,212	1,412	1,647	147	147	258	18.4
Unoccupied	2,077	910	313	392	Q	Q	Q	Q	28.3
Government Owned	15,124	6,329	1,404	1,203	4,431	452	906	399	17.6
Building Shell Conservation Features (more than one may apply)									
Roof or Ceiling Insulation	50,311	22,615	7,342	6,327	10,107	1,380	1,105	1,435	9.5
Wall Insulation	33,240	14,028	5,003	5,663	6,061	806	583	1,097	11.0
Storm or Multiple Glazing	29,684	12,010	5,134	2,836	7,150	1,094	661	800	12.3
Tinted, Reflective or Shading Glass	25,396	12,851	2,704	1,838	6,000	604	767	632	14.5
Exterior or Interior Shading or Awnings	34,071	17,415	4,411	2,793	7,138	1,154	420	741	11.1
Windows that Open	28,937	11,974	6,324	2,704	5,301	1,351	550	733	12.0
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	13,970	6,851	879	534	4,298	513	533	363	21.7
Economizer Cycle	18,313	8,630	1,381	918	6,021	356	506	500	18.3
HVAC Maintenance	49,173	22,887	6,655	4,517	10,465	1,654	1,617	1,378	10.2
Lighting Conservation Features (more than one may apply)									
Specular Reflectors	15,241	6,933	1,734	1,723	3,627	341	556	328	15.8
Natural Lighting Control Sensors	3,072	1,491	197	Q	756	Q	303	Q	25.5
Occupancy Sensors	3,629	1,932	Q	Q	1,229	Q	Q	Q	23.3
Time Clock	12,104	6,637	818	544	2,770	219	792	325	20.8
Manual Dimmer Switches	12,329	5,238	1,993	432	3,531	531	153	452	17.1
Other	2,596	1,254	209	Q	684	Q	Q	Q	27.4

See footnotes at end of table.

Table A16. Predominant Roof Material, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace or All Buildings	Floorspace by Roof Material							RSE Row Factor
		Built-Up	Shingles (Not Wood)	Metal Surfacing	Synthetic or Rubber Roofing	Slate or Tile	Concrete	Other	
RSE Column Factor:	0.4	0.7	0.9	0.9	0.8	1.5	2.3	1.6	
Energy Conservation Features (more than one may apply)									
Any Conservation Features	64,403	29,187	10,018	7,593	11,560	1,961	2,337	1,747	8.8
Building Shell	62,056	28,249	9,880	7,310	11,420	1,924	1,558	1,715	8.9
HVAC	50,281	23,371	6,932	4,652	10,631	1,690	1,621	1,384	10.0
Lighting	29,453	13,917	3,841	2,299	6,340	861	1,296	900	11.9
Other	5,952	2,639	733	600	1,307	228	Q	136	19.2
Demand-Side Management Programs (more than one may apply)									
Building Shell Program	1,079	341	Q	Q	492	Q	Q	Q	32.3
HVAC Program	6,370	3,217	412	453	1,864	131	Q	Q	21.9
Lighting Program	8,805	3,760	918	387	3,179	235	184	142	20.5
Other DSM Programs	6,176	2,633	472	358	2,382	Q	Q	Q	27.7

(*) = Value rounds to zero in the units displayed.

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A17. Employment Size Category, Number of Buildings, 1992
(Thousand)

Building Characteristics	All Buildings	Buildings by Number of Workers							RSE Row Factor
		Less than 5 Workers	5 to 9 Workers	10 to 19 Workers	20 to 49 Workers	50 to 99 Workers	100 to 249 Workers	250 or More Workers	
RSE Column Factor:	0.5	0.8	0.9	1.1	1.0	1.2	1.3	1.4	
All Buildings	4,806	2,718	895	561	405	130	64	31	5.9
Building Floorspace (square feet)									
1,001 to 5,000	2,681	1,968	514	160	34	Q	Q	Q	10.1
5,001 to 10,000	975	460	218	195	94	Q	Q	Q	8.5
10,001 to 25,000	647	204	115	144	153	25	Q	Q	9.3
25,001 to 50,000	280	60	37	43	84	41	13	Q	13.8
50,001 to 100,000	116	12	8	10	28	32	18	7	15.7
100,001 to 200,000	71	8	3	7	10	16	18	9	21.0
200,001 to 500,000	26	3	Q	Q	2	3	7	9	19.3
Over 500,000	9	Q	Q	Q	Q	Q	1	4	26.0
Principal Building Activity									
Education	301	88	51	58	68	25	11	Q	13.6
Food Sales	130	91	Q	Q	Q	Q	Q	Q	21.0
Food Service	260	98	85	54	20	Q	Q	Q	17.4
Health Care	63	Q	Q	Q	11	Q	2	3	23.3
Lodging	154	98	18	12	18	5	Q	Q	22.5
Mercantile and Service	1,272	765	272	124	75	23	9	3	11.2
Office	749	199	203	138	122	39	26	21	10.2
Parking Garage	24	17	Q	Q	Q	Q	Q	Q	38.8
Public Assembly	278	180	46	29	11	9	Q	Q	17.8
Public Order and Safety	60	28	Q	Q	Q	Q	Q	Q	30.7
Religious Worship	366	254	46	39	20	Q	Q	Q	18.2
Warehouse and Storage	761	563	91	58	33	10	4	1	15.6
Other	69	42	Q	Q	7	Q	Q	(*)	30.1
Vacant	319	280	13	21	Q	Q	Q	Q	20.6
Year Constructed									
1899 or Before	169	93	41	14	14	Q	Q	Q	23.8
1900 to 1919	255	157	39	36	13	Q	3	Q	21.1
1920 to 1945	724	476	122	63	46	10	4	3	15.0
1946 to 1959	880	501	176	94	80	20	7	2	13.6
1960 to 1969	783	431	131	101	78	23	11	8	12.2
1970 to 1979	982	514	208	130	80	28	16	6	11.0
1980 to 1989	884	469	162	109	84	32	20	8	11.0
1990 to 1992	128	77	16	15	10	5	3	2	25.8
Census Region									
Northeast	771	404	148	95	77	29	10	7	12.2
Midwest	1,202	721	218	122	87	31	17	6	11.6
South	1,963	1,180	341	222	147	43	20	9	10.0
West	870	412	189	122	94	27	17	9	14.3
Energy Sources (more than one may apply)									
Electricity	4,616	2,530	895	560	405	130	64	31	5.8
Natural Gas	2,665	1,266	560	383	300	87	48	22	7.1
Fuel Oil	559	304	94	67	43	21	15	14	14.8
District Heat	95	22	14	22	17	10	4	7	20.0
District Chilled Water	28	Q	Q	10	5	3	2	3	27.9
Propane	337	215	64	33	16	5	4	Q	22.7
Any Other	163	119	Q	Q	Q	Q	Q	Q	18.6
Energy End Uses (more than one may apply)									
Heated Buildings	4,178	2,154	861	540	401	128	64	30	5.9
Air-Conditioned Buildings	3,502	1,623	781	502	384	118	63	31	6.0
Buildings with Water Heating	3,502	1,609	777	512	384	126	62	31	6.0
Buildings with Cooking	734	260	155	126	105	43	26	18	9.9
Buildings with Manufacturing	121	42	20	23	27	6	3	1	23.2

See footnotes at end of table.

Table A17. Employment Size Category, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	Buildings by Number of Workers								RSE Row Factor
	All Buildings	Less than 5 Workers	5 to 9 Workers	10 to 19 Workers	20 to 49 Workers	50 to 99 Workers	100 to 249 Workers	250 or More Workers	
RSE Column Factor:	0.5	0.8	0.9	1.1	1.0	1.2	1.3	1.4	
Floors									
One	3,007	1,922	555	290	175	47	14	3	10.0
Two	1,154	553	230	181	128	40	18	4	9.9
Three	446	193	79	57	74	25	12	5	13.6
Four to Nine	186	49	31	33	26	17	18	11	17.9
Ten or More	13	Q	Q	Q	Q	Q	2	8	20.4
Percent Window Glass									
25 or Less	4,193	2,510	774	451	314	91	39	14	6.8
26 to 50	490	168	105	95	68	28	17	9	11.2
51 to 75	94	29	14	11	21	8	5	5	23.8
76 to 100	29	Q	Q	Q	Q	Q	3	3	26.9
Weekly Operating Hours									
39 or Fewer	1,039	843	89	65	27	12	Q	Q	15.1
40 to 48	1,278	616	282	185	135	41	13	6	10.8
49 to 60	1,004	517	225	124	87	27	15	8	10.7
61 to 84	645	281	167	88	67	21	14	7	11.2
85 to 167	478	242	87	70	48	18	11	3	15.0
Open Continuously	362	218	44	31	41	11	10	7	14.0
Percent Vacant for at Least Three Months									
1-50 Percent	362	120	64	65	60	23	16	13	12.5
51-99 Percent	97	68	10	Q	5	3	Q	Q	25.0
100 Percent	398	335	31	21	7	Q	Q	Q	21.3
None	3,948	2,195	791	468	332	101	44	17	6.7
Ownership and Occupancy									
Nongovernment Owned	4,206	2,465	792	469	312	98	46	25	6.3
Owner Occupied	3,192	1,856	628	356	232	70	33	18	7.3
Nonowner Occupied	817	419	162	110	79	27	13	7	11.2
Unoccupied	197	191	Q	Q	Q	Q	Q	Q	15.8
Government Owned	599	253	103	93	92	32	18	7	11.7
Percent of Floorspace Heated									
Not Heated	653	586	36	23	Q	Q	Q	Q	17.4
1 to 50	688	442	127	69	35	9	4	1	14.6
51 to 99	618	265	154	100	63	18	10	8	13.0
100	2,846	1,424	578	370	303	101	49	22	6.5
Percent of Floorspace Cooled									
Not Cooled	1,304	1,096	115	60	20	12	Q	Q	15.0
1 to 50	1,176	582	268	162	113	37	12	1	10.7
51 to 99	658	251	143	114	92	26	18	14	11.0
100	1,668	790	369	226	179	55	33	15	8.5
Percent Lit when Open									
Not Lit	413	407	Q	Q	Q	Q	Q	Q	15.0
1 to 50	881	665	136	49	20	7	Q	Q	13.8
51 to 99	813	352	180	128	103	27	14	8	10.7
100	2,699	1,294	577	381	281	96	47	24	6.8
Heating Equipment (more than one may apply)									
Heat Pumps	449	199	96	59	61	17	10	6	14.9
Furnaces	1,692	912	407	210	120	30	10	3	10.6
Individual Space Heaters	1,464	846	281	158	113	41	17	9	10.0
District Heat	93	22	14	21	16	10	4	7	20.3
Boilers	624	211	119	95	111	43	29	15	10.1
Packaged Heating Units	870	305	188	169	133	46	21	8	10.9
Other	42	Q	Q	Q	Q	Q	Q	1	37.4

See footnotes at end of table.

Table A17. Employment Size Category, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	Buildings by Number of Workers								RSE Row Factor	
	All Buildings	Less than 5 Workers	5 to 9 Workers	10 to 19 Workers	20 to 49 Workers	50 to 99 Workers	100 to 249 Workers	250 or More Workers		
RSE Column Factor:	0.5	0.8	0.9	1.1	1.0	1.2	1.3	1.4		
Cooling Equipment (more than one may apply)										
Residential-Type Central Air										
Conditioners	816	380	208	130	75	14	8	2	14.6	
Heat Pumps	454	202	92	61	65	16	11	6	14.7	
Individual Air Conditioners	1,023	574	194	121	85	32	12	5	11.1	
District Chilled Water	28	Q	Q	10	5	3	2	3	27.9	
Central Chillers	142	24	9	15	33	24	19	18	17.1	
Packaged Air-Conditioning										
Units	1,459	512	351	263	205	77	34	16	8.4	
Swamp Coolers	179	83	52	22	12	Q	Q	Q	31.3	
Other	8	Q	Q	Q	Q	Q	Q	Q	82.0	
Lighting Equipment Types (more than one may apply)										
Incandescent	2,509	1,323	491	339	217	78	40	21	7.2	
Standard Fluorescent	4,065	2,066	848	530	400	126	64	31	5.7	
Compact Fluorescent	206	79	34	25	28	16	15	10	14.7	
High-Intensity Discharge	354	122	62	55	52	34	19	9	11.0	
Other	78	31	15	Q	Q	Q	Q	2	29.4	
Personal Computers and/or Computer Terminals										
1 to 4	1,269	565	388	196	101	18	Q	Q	8.9	
5 to 9	336	16	114	109	77	14	5	Q	15.9	
10 to 19	216	11	23	68	92	16	5	Q	16.6	
20 to 49	164	Q	Q	22	80	35	15	2	15.6	
50 to 99	59	Q	Q	Q	13	24	17	4	17.3	
100 to 249	34	Q	Q	Q	Q	7	14	9	17.3	
250 or More	19	Q	Q	Q	Q	Q	4	14	20.4	
Lighting Conservation Features (more than one may apply)										
Specular Reflectors	574	215	111	106	83	29	17	13	11.5	
Natural Lighting Control										
Sensors	74	34	12	Q	5	7	3	2	23.2	
Occupancy Sensors	59	Q	Q	Q	8	6	8	5	22.4	
Time Clock	339	111	63	65	50	24	15	11	13.2	
Manual Dimmer Switches	413	166	81	62	54	23	15	12	12.4	
Other	78	26	Q	Q	14	8	4	3	23.8	
Off-Hour Equipment Reduction (more than one may apply)										
Heating	3,400	1,733	734	448	318	99	47	21	6.6	
Cooling	2,872	1,336	659	413	305	92	46	22	6.5	
Hot Water	578	268	110	90	63	30	11	6	12.3	
Lighting	4,089	2,170	841	521	362	117	54	25	6.1	
Other	547	236	139	91	49	19	8	5	15.8	
Demand-Side Management Programs (more than one may apply)										
Building Shell Program	36	Q	Q	Q	Q	Q	Q	1	32.5	
HVAC Program	154	51	25	25	22	13	10	7	16.8	
Lighting Program	228	74	50	26	38	20	13	7	15.4	
Other DSM Programs	110	28	26	14	13	13	8	7	20.2	

(*) = Value rounds to zero in the units displayed.

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A18. Employment Size Category, Floorspace, 1992
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Floorspace by Number of Workers							RSE Row Factor
		Less than 5 Workers	5 to 9 Workers	10 to 19 Workers	20 to 49 Workers	50 to 99 Workers	100 to 249 Workers	250 or More Workers	
RSE Column Factor:	0.5	1.0	1.0	1.1	0.9	1.2	1.4	1.2	
All Buildings	67,876	17,944	7,524	8,077	10,556	7,763	7,378	8,633	7.4
Building Floorspace (square feet)									
1,001 to 5,000	7,327	5,095	1,554	537	120	Q	Q	Q	10.5
5,001 to 10,000	7,199	3,329	1,612	1,446	757	Q	Q	Q	8.2
10,001 to 25,000	10,375	3,053	1,801	2,323	2,608	450	Q	Q	9.2
25,001 to 50,000	10,069	2,107	1,348	1,538	3,049	1,445	517	Q	14.0
50,001 to 100,000	8,062	910	595	643	1,899	2,151	1,303	561	15.5
100,001 to 200,000	9,678	1,044	444	922	1,367	2,122	2,550	1,229	20.9
200,001 to 500,000	7,889	1,020	Q	Q	628	850	2,139	2,812	19.8
Over 500,000	7,278	Q	Q	Q	Q	Q	744	3,951	25.8
Principal Building Activity									
Education	8,470	481	448	738	2,533	2,213	1,874	Q	15.2
Food Sales	757	310	Q	Q	Q	Q	Q	Q	23.8
Food Service	1,491	338	438	414	252	Q	Q	Q	20.6
Health Care	1,763	Q	Q	Q	162	Q	294	1,040	22.7
Lodging	2,891	764	332	220	646	449	Q	Q	23.2
Mercantile and Service	12,402	3,000	1,927	1,550	1,750	1,246	1,188	1,740	14.7
Office	12,319	861	994	1,048	1,952	1,326	1,603	4,535	12.2
Parking Garage	1,652	874	Q	Q	Q	Q	Q	Q	38.0
Public Assembly	4,556	2,194	495	712	335	334	Q	Q	30.0
Public Order and Safety	820	151	Q	Q	Q	Q	Q	Q	30.9
Religious Worship	3,747	1,989	649	540	428	Q	Q	Q	22.1
Warehouse and Storage	11,484	3,846	1,446	1,813	1,825	1,135	1,051	368	19.2
Other	1,130	160	Q	Q	165	Q	Q	162	27.8
Vacant	4,396	2,938	230	367	Q	Q	Q	Q	21.4
Year Constructed									
1899 or Before	1,721	692	444	167	151	Q	Q	Q	25.2
1900 to 1919	3,608	993	453	612	355	Q	476	Q	25.0
1920 to 1945	8,712	3,053	1,211	933	1,105	1,023	484	904	19.3
1946 to 1959	10,421	2,922	1,236	1,611	2,204	1,222	719	507	15.9
1960 to 1969	12,612	2,807	1,227	1,211	1,685	1,685	1,369	2,133	15.3
1970 to 1979	14,014	3,165	1,577	1,812	2,088	1,424	1,895	2,053	12.5
1980 to 1989	14,287	3,795	1,226	1,531	2,075	1,464	2,069	2,127	14.3
1990 to 1992	2,502	516	152	201	399	301	349	585	23.2
Census Region									
Northeast	13,400	2,708	1,328	1,367	2,014	1,899	1,378	2,707	14.9
Midwest	17,280	4,747	1,867	1,871	2,521	2,002	2,467	1,805	12.2
South	24,577	7,676	3,013	3,266	3,818	2,286	1,984	2,535	12.6
West	12,619	2,813	1,316	1,573	2,204	1,577	1,549	1,586	13.6
Energy Sources (more than one may apply)									
Electricity	66,549	16,640	7,524	8,054	10,556	7,763	7,378	8,633	7.5
Natural Gas	45,097	8,079	4,494	5,484	8,357	5,982	6,076	6,625	8.1
Fuel Oil	13,218	1,793	786	884	1,094	1,487	2,314	4,860	13.6
District Heat	5,339	410	321	494	518	806	674	2,115	22.2
District Chilled Water	2,066	Q	Q	193	191	327	192	868	28.9
Propane	3,393	929	510	402	445	384	484	Q	21.6
Any Other	1,551	514	Q	Q	Q	Q	Q	Q	22.2
Energy End Uses (more than one may apply)									
Heated Buildings	61,996	13,604	7,075	7,528	10,440	7,652	7,323	8,374	7.5
Air-Conditioned Buildings	57,041	10,719	6,249	6,954	9,990	7,313	7,195	8,621	7.7
Buildings with Water Heating	58,479	11,207	6,432	7,089	10,215	7,644	7,278	8,613	7.8
Buildings with Cooking	23,065	2,678	1,326	1,719	3,419	3,424	3,998	6,502	13.7
Buildings with Manufacturing	3,174	334	256	384	916	395	561	328	25.1

See footnotes at end of table.

Table A18. Employment Size Category, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Floorspace by Number of Workers							RSE Row Factor
		Less than 5 Workers	5 to 9 Workers	10 to 19 Workers	20 to 49 Workers	50 to 99 Workers	100 to 249 Workers	250 or More Workers	
RSE Column Factor:	0.5	1.0	1.0	1.1	0.9	1.2	1.4	1.2	
Floors									
One	25,424	10,122	3,676	3,239	4,273	2,394	1,165	556	12.0
Two	18,025	4,222	2,148	2,577	3,025	2,492	2,318	1,242	12.2
Three	9,877	1,728	909	993	2,173	1,525	1,486	1,064	14.7
Four to Nine	10,377	1,514	790	1,254	956	1,241	2,070	2,553	18.8
Ten or More	4,173	Q	Q	Q	Q	Q	338	3,219	21.7
Percent Window Glass									
25 or Less	51,356	15,935	6,430	6,760	8,155	5,497	4,677	3,903	8.7
26 to 50	11,815	1,662	893	1,118	1,907	1,628	2,059	2,549	13.3
51 to 75	3,206	189	199	142	427	502	424	1,323	23.5
76 to 100	1,499	Q	Q	Q	Q	Q	218	859	28.4
Weekly Operating Hours									
39 or Fewer	8,246	5,524	636	637	663	598	Q	Q	17.7
40 to 48	14,998	3,347	2,032	2,496	3,148	1,859	1,112	1,004	12.4
49 to 60	14,046	3,047	2,284	1,947	2,033	1,386	1,615	1,733	12.3
61 to 84	12,062	1,743	1,266	1,120	1,956	1,786	1,695	2,495	14.1
85 to 167	8,467	1,470	677	1,061	1,365	1,161	1,362	1,369	17.4
Open Continuously	10,057	2,812	629	816	1,391	973	1,428	2,009	21.6
Percent Vacant for at Least Three Months									
1-50 Percent	12,420	1,041	634	1,213	1,435	1,296	2,150	4,651	14.9
51-99 Percent	2,263	521	239	Q	376	Q	Q	256	30.4
100 Percent	4,109	3,052	280	228	196	Q	Q	59	23.3
None	49,085	13,331	6,372	6,502	8,550	5,981	4,682	3,667	8.3
Ownership and Occupancy									
Nongovernment Owned	52,752	15,976	6,524	6,412	7,501	5,132	4,593	6,614	8.4
Owner Occupied	38,403	10,973	5,015	4,933	5,586	3,584	3,110	5,202	8.3
Nonowner Occupied	12,273	3,044	1,486	1,437	1,880	1,549	1,472	1,405	16.1
Unoccupied	2,077	1,959	Q	Q	Q	Q	Q	Q	16.9
Government Owned	15,124	1,968	1,000	1,665	3,056	2,631	2,785	2,019	15.1
Percent of Floorspace Heated									
Not Heated	6,211	4,578	455	Q	Q	Q	Q	Q	22.5
1 to 50	11,195	3,678	1,659	1,992	1,350	1,123	486	907	19.4
51 to 99	10,211	1,318	1,265	1,247	1,801	1,200	1,425	1,956	13.9
100	40,260	8,371	4,146	4,286	7,206	5,329	5,412	5,511	8.0
Percent of Floorspace Cooled									
Not Cooled	10,835	7,225	1,276	1,123	566	450	Q	Q	19.3
1 to 50	21,715	4,650	3,132	3,447	4,190	3,265	2,228	804	13.4
51 to 99	13,872	1,249	1,056	1,287	2,391	1,497	2,007	4,386	12.3
100	21,454	4,820	2,061	2,221	3,410	2,551	2,960	3,430	10.8
Percent Lit when Open									
Not Lit	3,280	3,185	Q	Q	Q	Q	Q	Q	15.0
1 to 50	9,980	4,775	1,914	1,433	806	578	Q	Q	17.9
51 to 99	14,224	2,779	1,518	1,604	2,723	1,496	2,007	2,097	15.2
100	40,393	7,205	4,086	4,986	6,994	5,689	5,072	6,361	8.2
Heating Equipment (more than one may apply)									
Heat Pumps	8,269	1,219	812	938	1,408	1,161	1,327	1,404	15.9
Furnaces	16,909	4,981	2,917	2,488	2,590	2,133	800	1,001	13.2
Individual Space Heaters	22,380	5,455	2,569	2,655	3,314	2,638	2,610	3,138	11.6
District Heat	5,225	396	314	487	500	785	674	2,070	22.6
Boilers	20,664	2,755	1,516	1,831	3,784	2,882	3,911	3,984	13.2
Packaged Heating Units	16,000	1,694	1,372	1,992	3,380	2,406	2,689	2,466	12.4
Other	903	Q	Q	Q	Q	Q	Q	186	32.4

See footnotes at end of table.

Table A18. Employment Size Category, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Floorspace by Number of Workers							RSE Row Factor
		Less than 5 Workers	5 to 9 Workers	10 to 19 Workers	20 to 49 Workers	50 to 99 Workers	100 to 249 Workers	250 or More Workers	
RSE Column Factor:	0.5	1.0	1.0	1.1	0.9	1.2	1.4	1.2	
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	9,021	2,114	1,399	1,546	1,596	861	594	910	14.0
Heat Pumps	8,406	1,272	818	898	1,454	1,140	1,405	1,420	15.1
Individual Air Conditioners	17,979	4,095	2,143	2,301	2,807	2,678	1,950	2,004	15.5
District Chilled Water	2,066	Q	Q	193	191	327	192	868	28.9
Central Chillers	12,991	Q	182	355	1,320	1,730	2,688	5,397	15.4
Packaged Air-Conditioning Units	27,830	3,619	2,612	3,389	5,525	4,500	3,770	4,414	8.9
Swamp Coolers	2,085	368	239	296	374	Q	Q	Q	32.5
Other	268	Q	Q	Q	Q	Q	Q	Q	72.3
Lighting Equipment Types (more than one may apply)									
Incandescent	39,221	8,540	4,231	4,618	5,703	4,648	4,910	6,571	8.1
Standard Fluorescent	62,074	13,520	7,100	7,490	10,414	7,646	7,334	8,570	7.4
Compact Fluorescent	8,336	714	381	376	886	1,089	1,405	3,485	18.0
High-Intensity Discharge	17,570	1,777	1,174	1,624	2,685	2,920	3,280	4,111	14.1
Other	1,612	270	251	Q	Q	Q	Q	512	35.3
Personal Computers and/or Computer Terminals									
1 to 4	13,355	3,868	3,496	2,789	2,192	858	Q	Q	11.4
5 to 9	5,970	175	735	1,550	2,075	876	379	Q	16.2
10 to 19	6,236	225	298	935	2,622	914	704	Q	20.0
20 to 49	7,439	Q	Q	360	2,293	2,203	1,750	555	17.1
50 to 99	4,908	Q	Q	Q	483	1,563	2,194	621	18.1
100 to 249	4,220	Q	Q	Q	Q	561	1,628	1,818	16.7
250 or More	5,569	Q	Q	Q	Q	Q	424	4,876	21.0
Lighting Conservation Features (more than one may apply)									
Specular Reflectors	15,241	1,661	1,289	1,924	2,519	1,673	2,030	4,145	13.0
Natural Lighting Control Sensors	3,072	444	137	Q	307	335	637	1,039	22.1
Occupancy Sensors	3,629	Q	Q	Q	347	382	1,064	1,587	21.0
Time Clock	12,104	Q	679	1,015	1,277	1,238	1,771	4,134	15.4
Manual Dimmer Switches	12,329	1,530	842	923	1,190	1,377	2,313	4,155	14.4
Other	2,596	217	Q	Q	456	455	467	728	20.7
Off-Hour Equipment Reduction (more than one may apply)									
Heating	46,248	9,628	5,842	5,649	8,030	6,026	5,194	5,878	7.5
Cooling	42,768	7,658	5,193	5,169	7,747	5,799	5,108	6,095	7.8
Hot Water	9,966	1,602	904	1,216	1,724	1,366	1,363	1,791	13.3
Lighting	54,944	12,716	6,833	7,168	9,110	6,733	5,861	6,523	7.3
Other	7,996	1,151	1,055	1,067	1,235	1,234	1,054	1,199	17.2
Demand-Side Management Programs (more than one may apply)									
Building Shell Program	1,079	Q	Q	Q	Q	Q	Q	348	28.9
HVAC Program	6,370	490	352	308	672	1,038	1,404	2,106	18.0
Lighting Program	8,805	845	432	283	1,276	1,408	1,794	2,768	16.9
Other DSM Programs	6,176	355	295	181	548	967	1,230	2,600	23.5

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A19. Weekly Operating Hours, Number of Buildings, 1992

(Thousand)

Building Characteristics	All Buildings	Buildings by Weekly Operating Hours						RSE Row Factor
		39 or Fewer Hours	40 to 48 Hours	49 to 60 Hours	61 to 84 Hours	85 to 167 Hours	Open Continuously	
RSE Column Factor:	0.6	1.2	0.9	1.0	1.0	1.2	1.3	
All Buildings	4,806	1,039	1,278	1,004	645	478	362	5.4
Building Floorspace (square feet)								
1,001 to 5,000	2,681	688	687	519	324	281	182	7.9
5,001 to 10,000	975	188	293	216	146	69	62	9.0
10,001 to 25,000	647	107	183	156	87	64	50	9.8
25,001 to 50,000	280	37	70	71	41	31	31	12.2
50,001 to 100,000	116	14	25	20	24	17	15	15.0
100,001 to 200,000	71	Q	16	17	16	10	9	17.2
200,001 to 500,000	26	2	4	4	4	5	8	19.9
Over 500,000	9	Q	(*)	1	2	1	Q	28.3
Principal Building Activity								
Education	301	63	127	53	45	11	Q	14.7
Food Sales	130	Q	Q	Q	28	69	23	20.3
Food Service	260	Q	20	Q	62	137	Q	15.7
Health Care	63	Q	24	18	Q	Q	11	24.7
Lodging	154	Q	Q	Q	Q	Q	137	12.7
Mercantile and Service	1,272	66	317	448	287	117	37	10.3
Office	749	46	414	175	63	30	20	12.6
Parking Garage	24	Q	Q	Q	Q	Q	6	32.7
Public Assembly	278	113	40	35	43	41	Q	14.4
Public Order and Safety	60	Q	Q	Q	Q	Q	39	22.0
Religious Worship	366	284	22	26	22	Q	Q	17.6
Warehouse and Storage	761	193	243	181	64	33	47	12.9
Other	69	Q	13	10	Q	Q	17	28.4
Vacant	319	227	42	23	11	Q	Q	19.5
Year Constructed								
1899 or Before	169	57	43	22	17	22	Q	21.3
1900 to 1919	255	75	71	52	23	21	13	18.4
1920 to 1945	724	185	208	137	100	61	34	12.7
1946 to 1959	880	219	245	192	82	88	53	10.1
1960 to 1969	783	150	188	171	106	86	82	10.6
1970 to 1979	982	196	244	211	154	99	77	9.8
1980 to 1989	884	132	249	183	145	91	83	10.5
1990 to 1992	128	24	30	34	18	10	12	25.8
Census Region								
Northeast	771	123	191	184	129	83	61	12.6
Midwest	1,202	314	294	231	170	127	65	10.6
South	1,963	486	541	395	220	167	154	8.9
West	870	116	252	193	127	101	82	14.4
Energy Sources (more than one may apply)								
Electricity	4,616	889	1,270	992	641	475	349	5.3
Natural Gas	2,665	407	753	599	404	299	202	6.8
Fuel Oil	559	119	146	131	77	41	44	14.6
District Heat	95	11	34	16	9	7	19	21.4
District Chilled Water	28	Q	8	4	4	Q	5	32.6
Propane	337	94	59	69	44	46	26	18.9
Any Other	163	31	54	35	Q	Q	18	20.5
Energy End Uses (more than one may apply)								
Heated Buildings	4,178	725	1,186	920	603	436	307	5.5
Air-Conditioned Buildings	3,502	513	1,007	786	528	405	262	5.9
Buildings with Water Heating	3,502	507	979	764	518	435	300	5.7
Buildings with Cooking	734	116	89	83	149	218	78	10.3
Buildings with Manufacturing	121	Q	46	34	19	7	6	23.6

See footnotes at end of table.

Table A19. Weekly Operating Hours, Number of Buildings, 1992 (Continued)

(Thousand)

Building Characteristics	All Buildings	Buildings by Weekly Operating Hours						RSE Row Factor
		39 or Fewer Hours	40 to 48 Hours	49 to 60 Hours	61 to 84 Hours	85 to 167 Hours	Open Continuously	
RSE Column Factor:	0.6	1.2	0.9	1.0	1.0	1.2	1.3	
Workers (main shift)								
Less than 5	2,718	843	616	517	281	242	218	7.7
5 to 9	895	89	282	225	167	87	44	9.8
10 to 19	561	65	185	124	88	70	31	11.8
20 to 49	405	27	135	87	67	48	41	12.0
50 to 99	130	12	41	27	21	18	11	16.0
100 to 249	64	Q	13	15	14	11	10	15.7
250 or More	31	Q	6	8	7	3	7	19.1
Ownership and Occupancy								
Nongovernment Owned	4,206	917	1,036	934	577	450	292	5.7
Owner Occupied	3,192	646	787	723	437	354	245	6.4
Nonowner Occupied	817	99	241	201	138	96	43	10.7
Unoccupied	197	173	Q	Q	Q	Q	Q	12.9
Government Owned	599	122	242	69	68	28	70	12.0
Percent of Floorspace Heated								
Not Heated	653	323	100	87	43	43	56	14.9
1 to 50	688	109	215	182	89	60	33	11.8
51 to 99	618	78	164	152	105	81	38	11.6
100	2,846	528	799	583	407	294	235	6.3
Percent of Floorspace Cooled								
Not Cooled	1,304	526	271	217	116	73	100	10.4
1 to 50	1,176	127	341	346	197	106	59	8.7
51 to 99	658	80	184	133	102	99	60	10.7
100	1,668	306	482	307	230	200	142	8.3
Percent Lit when Open								
Not Lit	413	332	Q	29	Q	Q	18	17.5
1 to 50	881	172	261	192	108	91	58	10.1
51 to 99	813	126	245	187	124	79	51	9.1
100	2,699	408	759	595	402	301	234	6.9
Heating Equipment (more than one may apply)								
Heat Pumps	449	52	150	101	54	49	44	15.0
Furnaces	1,692	333	474	402	226	173	84	8.4
Individual Space Heaters	1,464	257	401	357	201	117	130	8.6
District Heat	93	9	34	16	9	7	19	21.7
Boilers	624	96	165	133	103	60	67	9.2
Packaged Heating Units	870	104	240	170	158	140	58	10.4
Other	42	Q	Q	Q	Q	Q	Q	39.8
Cooling Equipment (more than one may apply)								
Residential-Type Central Air Conditioners	816	139	268	189	104	73	43	12.3
Heat Pumps	454	50	151	103	57	49	44	15.0
Individual Air Conditioners	1,023	156	286	241	151	82	108	9.4
District Chilled Water	28	Q	8	4	4	Q	5	32.6
Central Chillers	142	13	42	20	30	15	21	16.1
Packaged Air-Conditioning Units	1,459	188	381	313	259	216	101	8.3
Swamp Coolers	179	Q	55	43	15	37	8	28.1
Other	8	Q	Q	Q	Q	Q	Q	76.9
Lighting Equipment Types (more than one may apply)								
Incandescent	2,509	496	633	489	334	322	234	6.7
Standard Fluorescent	4,065	618	1,182	942	597	437	290	5.2
Compact Fluorescent	206	13	45	46	44	29	30	17.4
High-Intensity Discharge	354	30	109	88	50	43	33	12.3
Other	78	Q	26	22	11	11	Q	27.5

See footnotes at end of table.

Table A19. Weekly Operating Hours, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	Buildings by Weekly Operating Hours						RSE Row Factor
		39 or Fewer Hours	40 to 48 Hours	49 to 60 Hours	61 to 84 Hours	85 to 167 Hours	Open Continuously	
RSE Column Factor:	0.6	1.2	0.9	1.0	1.0	1.2	1.3	
Lighting Conservation Features (more than one may apply)								
Specular Reflectors	574	62	180	138	84	56	54	12.3
Natural Lighting Control								
Sensors	74	Q	18	7	9	17	19	25.9
Occupancy Sensors	59	Q	20	11	10	9	6	25.7
Time Clock	339	35	76	77	59	53	38	14.8
Manual Dimmer Switches	413	76	82	69	66	75	44	12.4
Other	78	Q	24	17	13	12	7	26.0
Off-Hour Equipment Reduction (more than one may apply)								
Heating	3,400	656	1,044	824	535	340	Q	5.7
Cooling	2,872	485	884	700	471	333	Q	6.1
Hot Water	578	144	152	113	89	80	Q	10.7
Lighting	4,089	809	1,247	968	621	444	Q	5.3
Other	547	57	160	157	99	74	Q	13.3
Demand-Side Management Programs (more than one may apply)								
Building Shell Program	36	Q	17	Q	6	Q	6	34.2
HVAC Program	154	19	46	26	25	24	14	18.6
Lighting Program	228	18	70	41	38	37	23	17.2
Other DSM Programs	110	7	29	13	19	27	15	23.7

(*) = Value rounds to zero in the units displayed.

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A20. Weekly Operating Hours, Floorspace, 1992
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Floorspace by Weekly Operating Hours						RSE Row Factor
		39 or Fewer Hours	40 to 48 Hours	49 to 60 Hours	61 to 84 Hours	85 to 167 Hours	Open Continuously	
RSE Column Factor:	0.5	1.2	0.9	0.9	1.1	1.3	1.3	
All Buildings	67,876	8,246	14,998	14,046	12,062	8,467	10,057	6.8
Building Floorspace (square feet)								
1,001 to 5,000	7,327	1,797	1,904	1,430	926	772	498	8.1
5,001 to 10,000	7,199	1,341	2,186	1,610	1,098	492	472	9.1
10,001 to 25,000	10,375	1,592	2,994	2,549	1,408	1,022	810	9.8
25,001 to 50,000	10,069	1,309	2,553	2,536	1,443	1,151	1,077	12.4
50,001 to 100,000	8,062	1,007	1,698	1,440	1,769	1,132	1,015	14.6
100,001 to 200,000	9,678	Q	2,254	2,278	2,152	1,390	1,371	17.4
200,001 to 500,000	7,889	418	1,178	1,188	1,238	1,480	2,387	19.9
Over 500,000	7,278	Q	230	1,016	2,028	1,027	2,427	29.0
Principal Building Activity								
Education	8,470	1,221	2,761	1,447	1,607	1,333	Q	14.3
Food Sales	757	Q	Q	Q	149	372	200	21.7
Food Service	1,491	Q	81	Q	334	862	Q	19.0
Health Care	1,763	Q	151	151	Q	Q	1,284	22.8
Lodging	2,891	Q	Q	Q	Q	Q	2,730	15.6
Mercantile and Service	12,402	348	1,657	3,299	4,667	2,038	392	15.0
Office	12,319	220	4,635	4,037	2,048	752	626	14.4
Parking Garage	1,652	Q	Q	Q	Q	Q	1,268	35.8
Public Assembly	4,556	817	353	363	871	978	Q	21.6
Public Order and Safety	820	Q	Q	Q	Q	Q	619	29.6
Religious Worship	3,747	1,806	349	647	406	Q	Q	21.1
Warehouse and Storage	11,484	878	3,964	3,273	1,305	1,098	967	15.1
Other	1,130	Q	279	290	Q	Q	261	27.0
Vacant	4,396	2,756	601	267	372	Q	Q	24.7
Year Constructed								
1899 or Before	1,721	385	484	363	147	272	Q	23.4
1900 to 1919	3,608	927	883	803	356	402	237	26.6
1920 to 1945	8,712	1,564	2,045	2,013	1,393	780	918	16.7
1946 to 1959	10,421	1,570	2,877	2,640	1,072	1,117	1,146	12.8
1960 to 1969	12,612	1,320	2,617	2,371	2,692	1,910	1,701	15.5
1970 to 1979	14,014	1,455	2,614	2,476	2,778	2,248	2,444	11.4
1980 to 1989	14,287	849	2,923	2,720	3,210	1,465	3,120	14.1
1990 to 1992	2,502	176	554	661	415	273	423	21.3
Census Region								
Northeast	13,400	1,400	2,272	2,622	2,578	2,486	2,042	13.3
Midwest	17,280	2,454	3,446	3,474	3,212	2,217	2,477	11.3
South	24,577	3,278	6,543	5,002	3,795	1,938	4,021	11.3
West	12,619	1,114	2,738	2,948	2,477	1,826	1,517	12.3
Energy Sources (more than one may apply)								
Electricity	66,549	7,083	14,952	14,020	12,028	8,455	10,011	6.8
Natural Gas	45,097	4,032	9,529	9,575	9,141	6,509	6,311	7.8
Fuel Oil	13,218	1,137	2,448	2,473	2,320	1,695	3,145	12.2
District Heat	5,339	375	807	1,059	702	508	1,888	22.8
District Chilled Water	2,066	Q	312	357	178	278	724	29.8
Propane	3,393	522	532	674	533	493	639	19.6
Any Other	1,551	176	323	292	Q	Q	240	27.0
Energy End Uses (more than one may apply)								
Heated Buildings	61,996	6,000	13,745	13,251	11,529	8,141	9,329	7.1
Air-Conditioned Buildings	57,041	4,632	12,558	12,218	11,158	7,742	8,733	7.5
Buildings with Water Heating	58,479	5,005	12,613	12,405	11,308	8,020	9,128	7.3
Buildings with Cooking	23,065	1,828	3,010	3,118	5,195	4,750	5,163	12.5
Buildings with Manufacturing	3,174	Q	891	920	418	403	410	25.2

See footnotes at end of table.

Table A20. Weekly Operating Hours, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Floorspace by Weekly Operating Hours						RSE Row Factor
		39 or Fewer Hours	40 to 48 Hours	49 to 60 Hours	61 to 84 Hours	85 to 167 Hours	Open Continuously	
RSE Column Factor:	0.5	1.2	0.9	0.9	1.1	1.3	1.3	
Workers (main shift)								
Less than 5	17,944	5,524	3,347	3,047	1,743	1,470	2,812	13.4
5 to 9	7,524	636	2,032	2,284	1,266	677	629	13.1
10 to 19	8,077	637	2,496	1,947	1,120	1,061	816	15.7
20 to 49	10,556	663	3,148	2,033	1,956	1,365	1,391	12.7
50 to 99	7,763	598	1,859	1,386	1,786	1,161	973	18.4
100 to 249	7,378	Q	1,112	1,615	1,695	1,362	1,428	18.8
250 or More	8,633	Q	1,004	1,733	2,495	1,369	2,009	17.9
Ownership and Occupancy								
Nongovernment Owned	52,752	6,161	11,030	12,019	10,020	6,238	7,284	7.1
Owner Occupied	38,403	3,827	8,209	9,168	7,033	4,707	5,459	7.1
Nonowner Occupied	12,273	535	2,704	2,796	2,950	1,531	Q	12.6
Unoccupied	2,077	1,798	Q	Q	Q	Q	Q	14.9
Government Owned	15,124	2,085	3,968	2,027	2,042	2,229	2,773	14.5
Percent of Floorspace Heated								
Not Heated	6,211	2,369	1,309	845	541	409	737	24.0
1 to 50	11,195	1,083	2,579	2,635	1,654	1,771	1,473	18.3
51 to 99	10,211	467	2,096	2,877	2,227	1,275	1,269	13.4
100	40,260	4,327	9,015	7,690	7,639	5,012	6,577	7.9
Percent of Floorspace Cooled								
Not Cooled	10,835	3,614	2,441	1,828	904	725	1,324	14.4
1 to 50	21,715	2,176	5,216	5,317	3,796	2,860	2,351	11.2
51 to 99	13,872	521	2,726	2,784	3,123	2,379	2,340	13.1
100	21,454	1,935	4,616	4,118	4,238	2,504	4,043	11.0
Percent Lit when Open								
Not Lit	3,280	2,853	Q	129	Q	Q	88	20.7
1 to 50	9,980	1,482	2,803	2,242	1,413	1,267	774	15.3
51 to 99	14,224	1,002	2,993	3,107	3,021	1,760	2,342	14.3
100	40,393	2,910	9,094	8,568	7,562	5,406	6,853	8.4
Heating Equipment (more than one may apply)								
Heat Pumps	8,269	353	1,904	1,852	1,683	900	1,578	16.2
Furnaces	16,909	2,241	3,794	4,053	3,019	2,682	1,121	11.2
Individual Space Heaters	22,380	2,076	4,460	5,593	4,165	2,717	3,368	10.7
District Heat	5,225	332	792	1,051	695	504	1,850	23.3
Boilers	20,664	1,829	4,262	4,104	3,636	2,639	4,194	11.9
Packaged Heating Units	16,000	784	3,548	3,166	3,832	2,932	1,737	12.6
Other	903	Q	Q	Q	Q	Q	Q	34.7
Cooling Equipment (more than one may apply)								
Residential-Type Central Air Conditioners	9,021	912	2,481	2,250	1,329	1,002	1,046	13.2
Heat Pumps	8,406	374	1,916	1,757	1,810	945	1,604	16.1
Individual Air Conditioners	17,979	1,767	3,649	3,303	2,838	2,054	4,368	15.3
District Chilled Water	2,066	Q	312	357	178	278	724	29.8
Central Chillers	12,991	374	2,013	2,143	3,212	1,358	3,891	18.0
Packaged Air-Conditioning Units	27,830	2,088	5,989	5,784	5,879	4,224	3,866	9.5
Swamp Coolers	2,085	Q	494	582	287	297	309	28.2
Other	268	Q	Q	Q	Q	Q	Q	68.5
Lighting Equipment Types (more than one may apply)								
Incandescent	39,221	3,940	8,138	8,364	7,105	5,692	5,981	7.6
Standard Fluorescent	62,074	5,447	13,833	13,398	11,710	8,266	9,421	7.0
Compact Fluorescent	8,336	290	1,126	1,626	1,795	1,556	1,943	16.5
High-Intensity Discharge	17,570	936	2,914	3,545	3,559	3,148	3,468	12.3
Other	1,612	Q	320	318	367	Q	Q	29.1

See footnotes at end of table.

Table A20. Weekly Operating Hours, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Floorspace by Weekly Operating Hours						RSE Row Factor
		39 or Fewer Hours	40 to 48 Hours	49 to 60 Hours	61 to 84 Hours	85 to 167 Hours	Open Continuously	
RSE Column Factor:	0.5	1.2	0.9	0.9	1.1	1.3	1.3	
Lighting Conservation Features (more than one may apply)								
Specular Reflectors	15,241	756	2,951	3,117	3,048	2,637	2,732	12.5
Natural Lighting Control								
Sensors	3,072	Q	391	336	788	532	917	22.2
Occupancy Sensors	3,629	Q	757	701	553	777	804	21.8
Time Clock	12,104	465	1,502	2,314	3,054	2,150	2,620	17.3
Manual Dimmer Switches	12,329	805	1,594	2,398	2,427	2,442	2,664	13.6
Other	2,596	Q	491	574	565	375	499	21.1
Off-Hour Equipment Reduction (more than one may apply)								
Heating	46,248	5,241	11,764	12,021	10,403	6,819	Q	6.7
Cooling	42,768	4,078	10,698	11,114	10,219	6,660	Q	7.1
Hot Water	9,966	1,500	2,409	2,356	2,277	1,425	Q	11.9
Lighting	54,944	6,324	14,685	13,832	11,916	8,187	Q	6.3
Other	7,996	695	1,877	2,284	2,062	1,078	Q	19.1
Demand-Side Management Programs (more than one may apply)								
Building Shell Program	1,079	Q	221	Q	215	Q	312	29.6
HVAC Program	6,370	336	971	1,021	1,645	1,016	1,381	17.1
Lighting Program	8,805	469	1,315	1,598	1,720	2,056	1,647	15.5
Other DSM Programs	6,176	170	740	881	1,134	1,882	1,368	19.1

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A21. Occupancy of Government-Owned Buildings, Number of Buildings and Floorspace, 1992

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Government-Owned Buildings				All Buildings	Government-Owned Buildings				
		All Government-Owned Buildings	Federal	State	Local		All Government-Owned Buildings	Federal	State	Local	
RSE Column Factor:	0.4	0.8	2.1	1.5	0.9	0.4	0.9	2.0	1.5	1.0	
All Buildings	4,806	599	51	117	431	67,876	15,124	1,189	3,766	10,170	9.2
Building Floorspace (square feet)											
1,001 to 5,000	2,681	258	25	47	186	7,327	689	65	116	508	13.0
5,001 to 10,000	975	114	Q	Q	87	7,199	848	Q	Q	662	13.8
10,001 to 25,000	647	108	7	24	76	10,375	1,735	114	391	1,230	14.3
25,001 to 50,000	280	53	Q	14	36	10,069	1,953	Q	508	1,344	16.5
50,001 to 100,000	116	34	Q	7	25	8,062	2,241	Q	508	1,653	12.1
100,001 to 200,000	71	21	Q	5	13	9,678	2,858	Q	613	1,859	16.7
200,001 to 500,000	26	10	Q	3	6	7,889	2,932	Q	885	1,866	20.7
Over 500,000	9	2	(*)	Q	1	7,278	1,869	189	632	1,047	30.4
Principal Building Activity											
Education	301	201	Q	35	163	8,470	6,961	Q	1,198	5,727	12.3
Food Sales	130	Q	Q	Q	Q	757	Q	Q	Q	Q	34.8
Food Service	260	10	Q	Q	Q	1,491	157	Q	Q	Q	31.8
Health Care	63	13	Q	4	8	1,763	521	Q	158	326	34.7
Lodging	154	15	Q	8	Q	2,891	370	Q	269	Q	28.1
Mercantile and Service	1,272	63	14	Q	35	12,402	1,082	278	Q	Q	21.3
Office	749	69	11	17	41	12,319	1,654	448	528	679	18.5
Parking Garage	24	6	Q	Q	6	1,652	729	Q	Q	Q	56.3
Public Assembly	278	65	Q	12	50	4,556	1,353	Q	461	861	21.3
Public Order and Safety	60	49	Q	Q	40	820	767	Q	Q	537	31.1
Religious Worship	366	Q	Q	Q	Q	3,747	Q	Q	Q	Q	26.3
Warehouse and Storage	761	59	3	Q	47	11,484	599	177	Q	362	20.4
Other	69	16	Q	Q	Q	1,130	242	Q	Q	Q	39.8
Vacant	319	34	Q	Q	22	4,396	683	Q	Q	Q	30.4
Year Constructed											
1899 or Before	169	Q	Q	Q	Q	1,721	Q	Q	Q	Q	29.3
1900 to 1919	255	29	Q	Q	18	3,608	904	Q	Q	548	31.0
1920 to 1945	724	80	9	17	55	8,712	2,059	218	676	1,165	18.8
1946 to 1959	880	129	Q	37	83	10,421	2,365	Q	516	1,713	16.3
1960 to 1969	783	125	Q	21	100	12,612	4,041	Q	816	2,917	16.0
1970 to 1979	982	117	9	16	93	14,014	3,237	163	796	2,279	16.3
1980 to 1989	884	87	9	18	59	14,287	1,681	166	408	1,107	16.5
1990 to 1992	128	26	Q	5	20	2,502	704	Q	206	390	25.1
Census Region											
Northeast	771	88	12	18	58	13,400	3,422	107	747	2,568	16.4
Midwest	1,202	132	6	Q	98	17,280	4,153	268	1,231	2,654	19.0
South	1,963	234	22	34	179	24,577	5,097	547	955	3,595	14.2
West	870	146	11	37	97	12,619	2,452	Q	832	1,354	18.0
Energy Sources (more than one may apply)											
Electricity	4,616	578	43	116	419	66,549	14,948	1,139	3,748	10,060	9.3
Natural Gas	2,665	356	18	74	264	45,097	10,945	671	2,800	7,474	11.3
Fuel Oil	559	75	Q	13	52	13,218	3,798	288	940	2,570	15.3
District Heat	95	51	Q	24	21	5,339	2,446	375	1,153	918	19.9
District Chilled Water	28	18	Q	7	9	2,066	992	Q	449	446	31.6
Propane	337	32	Q	Q	23	3,393	699	Q	Q	624	26.7
Any Other	163	19	Q	Q	12	1,551	469	Q	Q	334	32.4

See footnotes at end of table.

Table A21. Occupancy of Government-Owned Buildings, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Government-Owned Buildings				All Buildings	Government-Owned Buildings				
		All Government-Owned Buildings	Federal	State	Local		All Government-Owned Buildings	Federal	State	Local	
		0.4	0.8	2.1	1.5		0.9	0.4	0.9	2.0	
RSE Column Factor:	0.4	0.8	2.1	1.5	0.9	0.4	0.9	2.0	1.5	1.0	
Energy End Uses (more than one may apply)											
Heated Buildings	4,178	537	42	109	386	61,996	14,478	1,134	3,650	9,694	9.4
Air-Conditioned Buildings	3,502	422	31	90	301	57,041	13,128	1,059	3,328	8,742	10.3
Buildings with Water Heating	3,502	449	40	89	320	58,479	13,852	1,093	3,575	9,184	9.6
Buildings with Cooking	734	117	Q	20	94	23,065	8,064	437	1,813	5,814	14.5
Buildings with Manufacturing	121	12	Q	Q	Q	3,174	330	Q	Q	Q	32.1
Climate Zone: 45-Year Average											
Fewer than 2,000 CDD and -- More than 7,000 HDD	399	46	Q	8	29	5,623	1,349	Q	524	763	27.9
5,500-7,000 HDD	1,134	133	9	32	91	18,024	4,053	431	981	2,641	19.9
4,000-5,499 HDD	1,077	114	13	20	82	16,162	4,066	336	968	2,762	21.9
Fewer than 4,000 HDD	1,101	162	10	26	127	15,251	3,296	213	909	2,175	24.1
More than 2,000 CDD and -- Fewer than 4,000 HDD	1,095	144	11	32	102	12,816	2,360	148	384	1,828	19.2
Predominant Exterior Wall Material											
Masonry	3,115	408	32	84	292	48,585	11,929	746	3,203	7,980	9.9
Siding or Shingles	764	90	Q	Q	63	3,873	354	Q	Q	246	19.5
Metal Panels	745	75	Q	12	60	7,392	801	Q	134	616	20.4
Concrete Panels	87	13	Q	3	7	4,961	1,726	Q	314	1,092	29.0
Window Glass	46	9	Q	Q	Q	2,028	292	Q	Q	Q	42.9
Other	47	Q	Q	Q	Q	1,037	Q	Q	Q	Q	50.8
Predominant Roof Material											
Built-Up	1,642	216	14	36	166	30,257	6,329	728	1,155	4,447	12.3
Shingles (Not Wood)	1,381	118	Q	21	82	10,570	1,404	Q	554	747	16.7
Metal Surfacing	1,037	116	Q	26	86	9,019	1,203	Q	257	895	18.2
Synthetic or Rubber	386	88	9	24	55	11,702	4,431	225	1,315	2,891	17.6
Slate or Tile	155	24	Q	6	13	1,998	452	Q	87	322	28.9
Concrete	37	7	Q	2	Q	2,544	906	Q	Q	Q	48.1
Other	167	30	Q	Q	24	1,786	399	Q	Q	278	32.7
Floors											
One	3,007	380	27	68	285	25,424	4,357	429	615	3,313	12.1
Two	1,154	132	11	26	96	18,025	3,697	183	899	2,616	14.9
Three	446	53	Q	12	32	9,877	3,039	Q	711	2,195	15.5
Four to Nine	186	32	5	10	17	10,377	3,309	Q	1,356	1,629	20.4
Ten or More	13	2	(*)	1	Q	4,173	722	121	185	Q	27.3
Percent Window Glass											
25 or Less	4,193	491	41	96	354	51,356	10,497	891	2,870	6,736	10.5
26 to 50	490	83	8	15	60	11,815	3,553	232	725	2,595	15.9
51 to 75	94	19	Q	Q	15	3,206	891	Q	Q	723	23.2
76 to 100	29	7	Q	Q	Q	1,499	184	Q	Q	Q	42.7
Workers (main shift)											
Less than 5	2,718	253	23	47	184	17,944	1,968	195	301	1,472	14.8
5 to 9	895	103	13	19	71	7,524	1,000	102	271	628	16.8
10 to 19	561	93	Q	17	72	8,077	1,665	Q	556	1,045	18.6
20 to 49	405	92	Q	19	68	10,556	3,056	Q	653	2,251	14.8
50 to 99	130	32	Q	9	21	7,763	2,631	Q	768	1,729	15.8
100 to 249	64	18	Q	3	13	7,378	2,785	Q	639	2,002	19.8
250 or More	31	7	Q	2	2	8,633	2,019	398	577	1,044	26.0

See footnotes at end of table.

Table A21. Occupancy of Government-Owned Buildings, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Government-Owned Buildings				All Buildings	Government-Owned Buildings				
		All Government-Owned Buildings	Federal	State	Local		All Government-Owned Buildings	Federal	State	Local	
		0.4	0.8	2.1	1.5		0.9	0.4	0.9	2.0	
Weekly Operating Hours											
39 or Fewer	1,039	122	Q	12	99	8,246	2,085	Q	Q	1,636	17.2
40 to 48	1,278	242	14	48	179	14,998	3,968	324	555	3,089	12.7
49 to 60	1,004	69	10	10	50	14,046	2,027	Q	402	1,296	17.4
61 to 84	645	68	Q	20	43	12,062	2,042	Q	548	1,407	15.4
85 to 167	478	28	Q	8	17	8,467	2,229	Q	729	1,392	22.8
Open Continuously	362	70	Q	19	43	10,057	2,773	253	1,169	1,351	20.5
Additional Operating Hours for Equipment Use											
Heating and/or Cooling	1,223	154	15	24	114	20,300	4,733	408	1,160	3,165	15.9
Lighting	633	58	Q	10	42	12,886	2,970	233	615	2,122	17.9
Heating and/or Cooling and Lighting	371	39	Q	6	28	8,717	2,376	Q	549	1,687	21.6
No Additional Hours	3,320	427	35	90	302	43,407	9,798	688	2,541	6,570	11.1
Percent Vacant for at Least Three Months											
1-50 Percent	362	18	Q	4	12	12,420	1,504	Q	351	966	27.8
51-99 Percent	97	7	Q	Q	Q	2,263	Q	Q	Q	Q	42.3
100 Percent	398	81	Q	10	63	4,109	1,025	Q	177	769	24.3
None	3,948	493	40	100	352	49,085	12,075	912	2,887	8,277	9.8
Number of Establishments											
One	3,886	527	36	109	382	47,997	12,441	778	2,970	8,694	9.9
2 to 5	517	32	Q	5	21	7,882	1,139	Q	485	431	24.0
6 to 10	89	Q	Q	Q	Q	2,562	Q	Q	Q	Q	25.7
11 to 20	49	Q	Q	Q	Q	2,039	Q	Q	Q	Q	38.4
More than 20	36	Q	Q	Q	Q	4,938	Q	Q	Q	Q	39.2
Currently Unoccupied	229	32	Q	Q	Q	2,457	381	Q	Q	Q	33.2
Energy-Related Space Functions (more than one may apply)											
Commercial Food Preparation	735	119	Q	20	95	22,166	8,068	437	1,813	5,819	14.1
Computer Room	223	47	5	13	29	14,199	3,847	450	1,004	2,392	16.8
Rooms with Special Ventilation	236	53	Q	11	36	8,042	3,277	155	796	2,327	16.6
Activities with Large Amounts of Hot Water	203	25	Q	5	20	6,862	1,807	Q	229	1,493	20.3
Multibuilding Facility											
Part of Multibuilding Facility	1,667	386	28	102	256	31,564	9,755	685	3,145	5,925	12.1
with Central Physical Plant	223	111	13	43	55	8,395	4,275	376	1,755	2,143	20.2
No Central Physical Plant	1,444	275	15	60	201	23,170	5,480	308	1,390	3,782	14.1
Not on Multibuilding Facility	3,139	213	23	15	175	36,312	5,369	504	621	4,244	12.2
Percent of Floorspace Heated											
Not Heated	653	66	Q	10	46	6,211	746	Q	198	480	24.8
1 to 50	688	39	Q	5	32	11,195	1,944	Q	Q	1,307	25.8
51 to 99	618	64	6	11	47	10,211	1,896	Q	347	1,285	19.2
100	2,846	430	32	92	306	40,260	10,538	718	2,722	7,099	9.6

See footnotes at end of table.

Table A21. Occupancy of Government-Owned Buildings, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Government-Owned Buildings			All Buildings	Government-Owned Buildings					
		All Government-Owned Buildings	Federal	State		Local	All Government-Owned Buildings	Federal	State	Local	
RSE Column Factor:	0.4	0.8	2.4	1.5	0.9	0.4	0.8	1.9	1.5	1.0	
Percent of Floorspace Cooled											
Not Cooled	1,304	177	20	27	130	10,835	1,996	130	438	1,428	14.5
1 to 50	1,176	136	11	27	98	21,715	5,301	233	1,270	3,798	16.2
51 to 99	658	78	9	18	51	13,872	3,663	486	882	2,295	17.0
100	1,668	209	11	46	152	21,454	4,164	340	1,175	2,649	13.9
Percent Lit when Open											
Not Lit	413	36	Q	Q	20	3,280	469	Q	Q	345	31.8
1 to 50	881	77	Q	18	55	9,980	1,112	167	Q	489	18.9
51 to 99	813	110	14	23	73	14,224	2,976	248	767	1,961	14.9
100	2,699	377	24	70	283	40,393	10,566	691	2,500	7,375	11.0
Heating Equipment (more than one may apply)											
Heat Pumps	449	51	Q	12	37	8,269	1,158	Q	236	884	22.3
Furnaces	1,692	150	12	29	108	16,909	2,315	197	606	1,513	18.7
Individual Space Heaters	1,464	175	Q	38	131	22,380	4,556	175	1,313	3,068	13.6
District Heat	93	50	Q	23	20	5,225	2,384	360	1,138	886	20.5
Boilers	624	147	14	25	108	20,664	7,356	403	1,665	5,287	12.4
Packaged Heating Units	870	93	5	11	77	16,000	2,574	Q	232	2,170	19.8
Other	42	Q	Q	Q	Q	903	Q	Q	Q	Q	49.5
Heating Distribution Equipment (more than one may apply)											
Radiators or Baseboards	473	116	12	21	82	13,263	5,546	375	1,348	3,822	14.6
Ducts for Heating	2,955	346	28	68	250	45,422	9,887	902	2,388	6,597	10.9
Heating Only	577	90	Q	13	68	5,950	2,194	Q	449	1,698	22.3
Heating and Cooling	2,378	257	19	55	183	39,472	7,693	855	1,940	4,899	11.4
Variable Air-Volume System Used	210	48	5	10	33	11,528	3,388	255	839	2,295	19.3
Fan Coil Units for Heating	99	34	Q	12	19	5,474	2,021	178	712	1,131	19.0
Heating Only	78	23	Q	Q	13	3,569	1,224	Q	301	807	22.8
Heating and Cooling	21	11	Q	5	6	1,906	797	Q	411	324	30.0
Individual Space Heaters	1,464	175	Q	38	131	22,380	4,556	175	1,313	3,068	13.6
Other	181	25	Q	Q	18	3,310	739	Q	Q	557	29.9
Cooling Equipment (more than one may apply)											
Residential-Type Central Air											
Conditioners	816	76	Q	17	56	9,021	1,593	Q	490	991	18.7
Heat Pumps	454	50	Q	12	36	8,406	1,035	Q	238	741	21.4
Individual Air											
Conditioners	1,023	134	12	28	94	17,979	5,232	212	1,262	3,758	14.8
District Chilled Water	28	18	Q	7	9	2,066	992	Q	449	446	31.7
Central Chillers	142	52	5	14	33	12,991	4,200	542	1,177	2,481	18.2
Packaged Air-Conditioning Units	1,459	153	11	24	117	27,830	5,375	417	1,365	3,593	13.8
Swamp Coolers	179	25	Q	Q	14	2,085	434	Q	Q	139	44.9
Other	8	Q	Q	Q	Q	268	Q	Q	Q	Q	96.7

See footnotes at end of table.

Table A21. Occupancy of Government-Owned Buildings, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Government-Owned Buildings				All Buildings	Government-Owned Buildings				
		All Government-Owned Buildings	Federal	State	Local		All Government-Owned Buildings	Federal	State	Local	
		0.8	2.4	1.5	0.9		0.8	1.9	1.5	1.0	
RSE Column Factor:	0.4	0.8	2.4	1.5	0.9	0.4	0.8	1.9	1.5	1.0	
Cooling Distribution Equipment (more than one may apply)											
Ducts for Cooling	2,733	313	23	71	220	47,755	10,014	990	2,632	6,392	10.9
Cooling Only	355	56	Q	16	37	8,283	2,321	Q	692	1,493	21.0
Heating and Cooling	2,378	257	19	55	183	39,472	7,693	855	1,940	4,899	11.4
Variable Air-Volume System Used	221	40	6	11	23	12,430	3,133	306	1,187	1,640	17.1
Fan Coil Units for Cooling	56	19	Q	7	12	3,875	1,449	Q	582	788	24.3
Cooling Only	35	8	Q	Q	6	1,969	652	Q	Q	464	41.6
Heating and Cooling	21	11	Q	5	6	1,906	797	Q	411	324	30.0
Individual Air Conditioners	1,023	134	12	28	94	17,979	5,232	212	1,262	3,758	14.8
Other	111	19	Q	Q	17	2,919	599	Q	Q	499	36.4
Lighting Equipment Types (more than one may apply)											
Incandescent	2,509	267	20	59	189	39,221	8,765	548	2,059	6,157	11.0
Standard Fluorescent	4,065	530	41	105	384	62,074	14,583	1,059	3,677	9,847	9.3
Compact Fluorescent	206	32	Q	5	23	8,336	2,230	143	524	1,564	21.5
High-Intensity Discharge	354	78	Q	15	57	17,570	6,195	414	1,555	4,227	13.7
Other	78	Q	Q	Q	Q	1,612	Q	Q	Q	Q	40.2
Personal Computers and/or Computer Terminals											
1 to 4	1,269	136	12	30	95	13,355	1,559	243	435	881	15.3
5 to 9	336	44	Q	6	33	5,970	813	Q	195	545	20.9
10 to 19	216	55	Q	8	41	6,236	1,720	Q	317	1,265	18.3
20 to 49	164	57	Q	13	42	7,439	2,494	Q	517	1,917	16.8
50 to 99	59	24	Q	4	18	4,908	2,309	Q	441	1,572	19.4
100 to 249	34	13	Q	5	7	4,220	1,967	Q	709	1,206	23.6
250 or More	19	4	(*)	1	2	5,569	1,446	181	278	987	26.7
Building Shell Conservation Features (more than one may apply)											
Roof or Ceiling Insulation	3,343	422	40	77	306	50,311	12,023	979	2,986	8,058	9.7
Wall Insulation	2,320	259	26	48	185	33,240	5,768	509	1,381	3,879	11.4
Storm or Multiple Glazing	1,680	184	22	32	130	29,684	5,988	628	1,429	3,931	11.5
Tinted, Reflective or Shading Glass	1,068	122	12	19	91	25,396	5,250	510	1,198	3,542	14.8
Exterior or Interior Shading or Awnings	1,853	263	22	52	189	34,071	7,749	652	2,125	4,973	11.4
Windows that Open	2,119	378	32	67	280	28,937	9,030	474	1,802	6,754	10.8
HVAC Conservation Features (more than one may apply)											
Variable Air-Volume System	250	54	6	12	36	13,970	4,009	307	1,256	2,446	17.6
Economizer Cycle	414	77	11	18	47	18,313	5,393	719	1,556	3,118	15.3
HVAC Maintenance	2,503	425	34	93	298	49,173	13,179	1,006	3,366	8,807	10.2

See footnotes at end of table.

Table A21. Occupancy of Government-Owned Buildings, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Government-Owned Buildings			All Buildings	Government-Owned Buildings					
		All Government-Owned Buildings	Federal	State		Local	All Government-Owned Buildings	Federal	State	Local	
RSE Column Factor:	0.4	0.8	2.4	1.5	0.9	0.4	0.8	1.9	1.5	1.0	
Lighting Conservation Features (more than one may apply)											
Specular Reflectors	574	92	14	17	61	15,241	4,008	423	1,226	2,359	16.8
Natural Lighting Control											
Sensors	74	11	Q	1	9	3,072	681	Q	Q	290	31.1
Occupancy Sensors	59	14	Q	4	8	3,629	1,076	350	Q	370	27.8
Time Clock	339	37	Q	6	28	12,104	1,915	143	355	1,418	24.8
Manual Dimmer Switches	413	33	Q	9	21	12,329	2,605	Q	756	1,737	21.7
Other	78	24	Q	Q	15	2,596	989	Q	Q	532	29.6
Energy Conservation Features (more than one may apply)											
Any Conservation Features	4,357	565	49	113	404	64,403	14,773	1,106	3,731	9,936	9.3
Building Shell	4,223	539	48	102	389	62,056	14,168	1,083	3,390	9,695	9.3
HVAC	2,604	432	34	94	304	50,281	13,276	1,015	3,376	8,885	10.1
Lighting	1,178	156	18	33	105	29,453	6,593	701	1,836	4,057	13.0
Other	264	44	Q	7	33	5,952	1,554	225	284	1,046	16.4
Off-Hour Equipment Reduction (more than one may apply)											
Heating	3,400	408	29	74	305	46,248	10,572	765	2,218	7,589	9.8
Cooling	2,872	321	24	58	239	42,768	9,727	758	2,083	6,886	10.8
Hot Water	578	73	5	10	58	9,966	2,914	180	429	2,306	15.7
Lighting	4,089	494	33	95	366	54,944	11,908	870	2,546	8,492	9.4
Other	547	52	Q	10	36	7,996	1,767	Q	Q	1,092	19.8
Energy Management Practices (more than one may apply)											
Energy Management and Control											
System	236	75	7	14	54	14,320	4,873	505	1,413	2,955	16.5
Demand-Side Management											
Participation	315	86	11	16	59	11,310	4,279	407	923	2,949	17.2
Energy Audit	521	122	Q	30	80	14,779	4,505	423	1,328	2,755	13.9
Building Energy Manager	49	18	Q	Q	13	2,311	777	Q	Q	561	36.5
Demand-Side Management Programs (more than one may apply)											
Building Shell Program	36	13	Q	Q	Q	1,079	367	Q	Q	Q	37.4
HVAC Program	154	49	Q	6	39	6,370	2,250	Q	570	1,495	21.7
Lighting Program	228	62	Q	14	39	8,805	3,313	376	730	2,207	20.6
Other DSM Programs	110	38	Q	6	23	6,176	2,494	245	551	1,698	24.0

(*) = Value rounds to zero in the units displayed.

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

**Table A22. Occupancy of Nongovernment-Owned Buildings,
Number of Buildings, 1992**
(Thousand)

Building Characteristics	All Nongovernment-Owned Buildings					RSE Row Factor
	All Buildings	All Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	
	0.7	0.7	0.8	1.3	2.1	
RSE Column Factor:	0.7	0.7	0.8	1.3	2.1	
All Buildings	4,806	4,206	3,192	817	197	5.0
Building Floorspace (square feet)						
1,001 to 5,000	2,681	2,423	1,859	437	127	7.0
5,001 to 10,000	975	861	660	167	34	6.9
10,001 to 25,000	647	540	396	126	18	8.8
25,001 to 50,000	280	228	169	47	12	10.1
50,001 to 100,000	116	82	57	22	Q	12.4
100,001 to 200,000	71	50	38	11	Q	13.7
200,001 to 500,000	26	16	11	5	Q	16.2
Over 500,000	9	7	4	Q	Q	32.2
Principal Building Activity						
Education	301	99	89	Q	Q	15.1
Food Sales	130	130	107	24	Q	19.9
Food Service	260	250	200	51	Q	12.2
Health Care	63	51	37	Q	Q	20.9
Lodging	154	139	135	Q	Q	15.9
Mercantile and Service	1,272	1,210	907	303	Q	7.0
Office	749	680	524	155	Q	7.7
Parking Garage	24	18	16	Q	Q	35.6
Public Assembly	278	213	191	23	Q	12.2
Public Order and Safety	60	Q	Q	Q	Q	27.4
Religious Worship	366	365	349	Q	Q	13.3
Warehouse and Storage	761	702	533	170	Q	9.6
Other	69	53	42	Q	Q	26.3
Vacant	319	285	54	34	197	12.1
Year Constructed						
1899 or Before	169	163	135	23	Q	20.0
1900 to 1919	255	226	175	39	Q	15.6
1920 to 1945	724	644	478	122	45	9.7
1946 to 1959	880	751	561	147	43	8.8
1960 to 1969	783	659	495	130	34	9.1
1970 to 1979	982	865	657	171	36	9.0
1980 to 1989	884	797	606	171	20	8.7
1990 to 1992	128	102	85	14	Q	22.9
Census Region						
Northeast	771	683	552	112	19	12.4
Midwest	1,202	1,070	844	173	53	9.5
South	1,963	1,729	1,267	361	101	7.9
West	870	725	529	171	24	15.6
Energy Sources (more than one may apply)						
Electricity	4,616	4,037	3,127	796	114	5.0
Natural Gas	2,665	2,309	1,814	458	37	6.7
Fuel Oil	559	483	413	63	Q	14.9
District Heat	95	44	35	9	Q	23.1
District Chilled Water	28	11	9	Q	Q	33.3
Propane	337	305	240	57	Q	18.6
Any Other	163	144	125	Q	Q	16.8
Energy End Uses (more than one may apply)						
Heated Buildings	4,178	3,641	2,875	701	65	5.1
Air-Conditioned Buildings	3,502	3,079	2,393	641	45	5.6
Buildings with Water Heating	3,502	3,053	2,414	589	49	5.6
Buildings with Cooking	734	617	496	114	Q	8.3
Buildings with Manufacturing	121	108	83	21	Q	20.3

See footnotes at end of table.

**Table A22. Occupancy of Nongovernment-Owned Buildings,
Number of Buildings, 1992 (Continued)**
(Thousand)

Building Characteristics	All Nongovernment-Owned Buildings					RSE Row Factor
	All Buildings	All Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	
	0.7	0.7	0.8	1.3	2.1	
RSE Column Factor:	0.7	0.7	0.8	1.3	2.1	
Climate Zone: 45-Year Average						
Fewer than 2,000 CDD and --						
More than 7,000 HDD	399	353	291	53	Q	19.1
5,500-7,000 HDD	1,134	1,001	812	151	39	14.2
4,000-5,499 HDD	1,077	962	733	187	43	18.7
Fewer than 4,000 HDD	1,101	939	686	211	42	18.8
More than 2,000 CDD and --						
Fewer than 4,000 HDD	1,095	951	670	216	64	12.2
Predominant Exterior Wall Material						
Masonry	3,115	2,707	2,015	570	122	5.5
Siding or Shingles	764	675	548	87	39	10.6
Metal Panels	745	669	525	115	29	11.3
Concrete Panels	87	75	42	29	Q	17.5
Window Glass	46	38	25	11	Q	28.4
Other	47	43	39	4	Q	30.3
Predominant Roof Material						
Built-Up	1,642	1,427	958	392	76	6.3
Shingles (Not Wood)	1,381	1,264	1,059	164	41	8.0
Metal Surfacing	1,037	921	697	165	59	9.4
Synthetic or Rubber	386	298	234	55	Q	9.9
Slate or Tile	155	131	104	22	Q	17.9
Concrete	37	30	21	7	Q	36.7
Other	167	137	119	13	Q	19.8
Floors						
One	3,007	2,626	1,945	542	140	6.9
Two	1,154	1,022	805	177	40	6.8
Three	446	393	313	66	Q	10.9
Four to Nine	186	154	122	30	Q	16.5
Ten or More	13	11	8	2	Q	21.2
Percent Window Glass						
25 or Less	4,193	3,702	2,802	716	185	5.3
26 to 50	490	407	315	83	Q	7.8
51 to 75	94	75	59	14	Q	21.3
76 to 100	29	22	17	Q	Q	27.3
Workers (main shift)						
Less than 5	2,718	2,465	1,856	419	191	6.7
5 to 9	895	792	628	162	Q	7.1
10 to 19	561	469	356	110	Q	9.0
20 to 49	405	312	232	79	Q	8.4
50 to 99	130	98	70	27	Q	12.8
100 to 249	64	46	33	13	Q	13.0
250 or More	31	25	18	7	Q	12.1
Weekly Operating Hours						
39 or Fewer	1,039	917	646	99	173	8.8
40 to 48	1,278	1,036	787	241	Q	6.9
49 to 60	1,004	934	723	201	Q	7.4
61 to 84	645	577	437	138	Q	7.1
85 to 167	478	450	354	96	Q	10.2
Open Continuously	362	292	245	43	Q	12.7

See footnotes at end of table.

**Table A22. Occupancy of Nongovernment-Owned Buildings,
Number of Buildings, 1992 (Continued)**
(Thousand)

Building Characteristics	All Nongovernment-Owned Buildings					RSE Row Factor
	All Buildings	All Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	
	0.7	0.7	0.8	1.3	2.1	
RSE Column Factor:	0.7	0.7	0.8	1.3	2.1	
Additional Operating Hours for Equipment Use						
Heating and/or Cooling	1,223	1,069	893	173	Q	10.6
Lighting	633	575	448	121	Q	11.4
Heating and/or Cooling and Lighting	371	332	272	59	Q	16.1
No Additional Hours	3,320	2,894	2,124	581	188	6.5
Percent Vacant for at Least Three Months						
1-50 Percent	362	344	200	144	Q	7.6
51-99 Percent	97	90	58	31	Q	16.9
100 Percent	398	317	92	31	194	12.7
None	3,948	3,456	2,842	611	Q	5.7
Number of Establishments						
One	3,886	3,359	2,864	495	Q	6.0
2 to 5	517	485	257	228	Q	7.7
6 to 10	89	83	40	43	Q	15.5
11 to 20	49	48	21	26	Q	23.9
More than 20	36	35	10	25	Q	21.4
Currently Unoccupied	229	197	Q	Q	197	10.6
Energy-Related Space Functions (more than one may apply)						
Commercial Food Preparation	735	616	497	112	Q	8.3
Computer Room	223	176	138	36	Q	13.9
Rooms with Special Ventilation	236	183	149	33	Q	14.2
Activities with Large Amounts of Hot Water	203	178	145	31	Q	12.2
Multibuilding Facility						
Part of Multibuilding Facility	1,667	1,280	1,019	220	42	8.6
with Central Physical Plant	223	112	100	10	Q	21.5
No Central Physical Plant	1,444	1,169	919	210	40	8.7
Not on Multibuilding Facility	3,139	2,926	2,173	597	155	5.1
Percent of Floorspace Heated						
Not Heated	653	587	330	121	136	10.2
1 to 50	688	649	477	155	16	9.2
51 to 99	618	555	433	121	Q	8.3
100	2,846	2,416	1,953	419	45	6.2
Percent of Floorspace Cooled						
Not Cooled	1,304	1,127	799	176	151	8.1
1 to 50	1,176	1,040	789	236	16	7.8
51 to 99	658	580	457	122	Q	8.8
100	1,668	1,459	1,148	282	29	8.0
Percent Lit when Open						
Not Lit	413	377	161	39	177	12.6
1 to 50	881	805	617	183	Q	7.9
51 to 99	813	703	557	142	Q	7.3
100	2,699	2,322	1,858	452	Q	5.9

See footnotes at end of table.

**Table A22. Occupancy of Nongovernment-Owned Buildings,
Number of Buildings, 1992 (Continued)**
(Thousand)

Building Characteristics	All Nongovernment-Owned Buildings					RSE Row Factor
	All Buildings	All Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	
RSE Column Factor:	0.6	0.7	0.7	1.2	3.0	
Heating Equipment (more than one may apply)						
Heat Pumps	449	398	318	70	Q	13.2
Furnaces	1,692	1,542	1,237	280	25	7.3
Individual Space Heaters	1,464	1,289	1,018	245	26	8.0
District Heat	93	44	34	9	Q	25.3
Boilers	624	477	404	68	Q	9.1
Packaged Heating Units	870	777	585	186	Q	10.8
Other	42	41	32	Q	Q	37.4
Heating Distribution Equipment (more than one may apply)						
Radiators or Baseboards	473	357	311	45	Q	11.4
Ducts for Heating	2,955	2,609	2,056	512	40	5.6
Heating Only	577	488	416	62	Q	13.1
Heating and Cooling	2,378	2,121	1,639	450	31	6.2
Variable Air-Volume System Used	210	162	133	28	Q	12.9
Fan Coil Units for						
Heating	99	65	46	15	Q	18.1
Heating Only	78	55	39	13	Q	20.9
Heating and Cooling	21	10	7	Q	Q	37.6
Individual Space Heaters	1,464	1,289	1,018	245	26	8.0
Other	181	157	128	27	Q	15.7
Cooling Equipment (more than one may apply)						
Residential-Type Central Air						
Conditioners	816	741	576	153	Q	11.5
Heat Pumps	454	404	326	69	Q	12.9
Individual Air						
Conditioners	1,023	889	711	168	Q	9.1
District Chilled Water	28	11	9	Q	Q	37.0
Central Chillers	142	90	72	16	Q	15.5
Packaged Air-Conditioning Units	1,459	1,306	991	302	13	8.4
Swamp Coolers	179	154	111	40	Q	29.9
Other	8	Q	Q	Q	Q	74.0
Cooling Distribution Equipment (more than one may apply)						
Ducts for Cooling	2,733	2,420	1,868	515	37	6.0
Cooling Only	355	299	229	64	Q	14.4
Heating and Cooling	2,378	2,121	1,639	450	31	6.2
Variable Air-Volume System Used	221	181	145	34	Q	12.6
Fan Coil Units for						
Cooling	56	37	29	8	Q	28.8
Cooling Only	35	28	21	Q	Q	38.1
Heating and Cooling	21	10	7	Q	Q	37.6
Individual Air						
Conditioners	1,023	889	711	168	Q	9.1
Other	111	93	66	26	Q	26.6
Lighting Equipment Types (more than one may apply)						
Incandescent	2,509	2,241	1,814	416	11	7.2
Standard Fluorescent	4,065	3,535	2,776	721	38	5.3
Compact Fluorescent	206	174	141	34	Q	14.3
High-Intensity Discharge	354	275	223	51	Q	11.2
Other	78	74	51	22	Q	24.1

See footnotes at end of table.

**Table A22. Occupancy of Nongovernment-Owned Buildings,
Number of Buildings, 1992 (Continued)**
(Thousand)

Building Characteristics	All Nongovernment-Owned Buildings					RSE Row Factor
	All Buildings	All Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	
RSE Column Factor:	0.6	0.7	0.7	1.2	3.0	
Personal Computers and/or Computer Terminals						
1 to 4	1,269	1,133	884	249	Q	6.9
5 to 9	336	292	217	75	Q	10.1
10 to 19	216	161	113	48	Q	13.4
20 to 49	164	107	82	24	Q	17.3
50 to 99	59	35	25	9	Q	16.9
100 to 249	34	21	17	4	Q	22.7
250 or More	19	15	12	3	Q	24.5
Building Shell Conservation Features (more than one may apply)						
Roof or Ceiling Insulation	3,343	2,921	2,297	535	89	5.6
Wall Insulation	2,320	2,061	1,660	334	68	6.5
Storm or Multiple Glazing	1,680	1,496	1,209	242	45	7.4
Tinted, Reflective or Shading Glass	1,068	946	738	183	25	8.3
Exterior or Interior Shading or Awnings	1,853	1,590	1,220	337	32	7.1
Windows that Open	2,119	1,741	1,420	260	61	6.9
HVAC Conservation Features (more than one may apply)						
Variable Air-Volume System	250	196	157	36	Q	12.1
Economizer Cycle	414	337	262	70	Q	12.7
HVAC Maintenance	2,503	2,078	1,696	365	17	6.9
Lighting Conservation Features (more than one may apply)						
Specular Reflectors	574	482	366	110	Q	11.9
Natural Lighting Control Sensors	74	63	57	5	Q	23.4
Occupancy Sensors	59	46	39	7	Q	21.9
Time Clock	339	301	224	75	Q	12.0
Manual Dimmer Switches	413	380	326	53	Q	13.0
Other	78	54	41	10	Q	24.6
Energy Conservation Features (more than one may apply)						
Any Conservation Features	4,357	3,792	2,929	717	145	5.3
Building Shell	4,223	3,684	2,841	699	144	5.3
HVAC	2,604	2,172	1,763	387	21	6.5
Lighting	1,178	1,022	810	202	9	8.7
Other	264	219	192	24	Q	15.8
Off-Hour Equipment Reduction (more than one may apply)						
Heating	3,400	2,991	2,332	613	46	5.6
Cooling	2,872	2,550	1,960	557	34	6.1
Hot Water	578	505	395	82	28	10.4
Lighting	4,089	3,596	2,785	743	68	5.2
Other	547	495	372	117	Q	14.3

See footnotes at end of table.

**Table A22. Occupancy of Nongovernment-Owned Buildings,
Number of Buildings, 1992 (Continued)**

(Thousand)

Building Characteristics	All Nongovernment-Owned Buildings					RSE Row Factor
	All Buildings	All Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	
RSE Column Factor:	0.6	0.7	0.7	1.2	3.0	
Energy Management Practices (more than one may apply)						
Energy Management and Control System	236	161	134	24	Q	13.1
Demand-Side Management Participation	315	229	199	27	Q	13.7
Energy Audit	521	399	334	64	Q	11.1
Building Energy Manager	49	32	27	3	Q	29.7
Demand-Side Management Programs (more than one may apply)						
Building Shell Program	36	23	18	Q	Q	32.3
HVAC Program	154	104	89	13	Q	17.1
Lighting Program	228	165	146	19	Q	17.0
Other DSM Programs	110	72	62	10	Q	21.3

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A23. Occupancy of Nongovernment-Owned Buildings, Floorspace, 1992
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Floorspace of All Nongovernment-Owned Buildings				RSE Row Factor
		All Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	
RSE Column Factor:	0.7	0.7	0.7	1.4	2.1	
All Buildings	67,876	52,752	38,403	12,273	2,077	5.6
Building Floorspace (square feet)						
1,001 to 5,000	7,327	6,638	5,119	1,172	347	7.6
5,001 to 10,000	7,199	6,351	4,861	1,251	239	6.9
10,001 to 25,000	10,375	8,640	6,343	2,017	279	8.6
25,001 to 50,000	10,069	8,116	6,054	1,645	418	10.6
50,001 to 100,000	8,062	5,821	4,026	1,516	Q	12.3
100,001 to 200,000	9,678	6,820	5,178	1,527	Q	14.0
200,001 to 500,000	7,889	4,957	3,484	1,252	Q	16.5
Over 500,000	7,278	5,409	3,337	Q	Q	28.6
Principal Building Activity						
Education	8,470	1,508	1,402	Q	Q	14.6
Food Sales	757	757	584	173	Q	22.3
Food Service	1,491	1,334	1,076	258	Q	16.1
Health Care	1,763	1,242	1,139	Q	Q	16.7
Lodging	2,891	2,520	2,272	Q	Q	19.8
Mercantile and Service	12,402	11,319	7,797	3,522	Q	9.5
Office	12,319	10,665	7,848	2,816	Q	8.7
Parking Garage	1,652	923	828	Q	Q	42.3
Public Assembly	4,556	3,203	2,105	Q	Q	29.4
Public Order and Safety	820	Q	Q	Q	Q	35.4
Religious Worship	3,747	3,742	3,694	Q	Q	17.5
Warehouse and Storage	11,484	10,885	7,829	3,056	Q	12.6
Other	1,130	888	748	Q	Q	22.9
Vacant	4,396	3,713	1,029	607	2,077	15.4
Year Constructed						
1899 or Before	1,721	1,589	1,224	332	Q	21.2
1900 to 1919	3,608	2,704	1,978	486	Q	20.2
1920 to 1945	8,712	6,653	4,783	1,453	417	15.4
1946 to 1959	10,421	8,056	6,237	1,426	393	12.4
1960 to 1969	12,612	8,571	6,737	1,491	344	11.3
1970 to 1979	14,014	10,776	8,024	2,435	317	9.3
1980 to 1989	14,287	12,606	8,113	4,178	314	15.2
1990 to 1992	2,502	1,798	1,307	472	Q	18.7
Census Region						
Northeast	13,400	9,978	7,311	2,350	316	13.6
Midwest	17,280	13,127	10,421	2,211	495	9.4
South	24,577	19,480	13,503	5,177	800	10.4
West	12,619	10,167	7,168	2,534	465	9.5
Energy Sources (more than one may apply)						
Electricity	66,549	51,601	38,162	12,156	1,283	5.9
Natural Gas	45,097	34,151	26,187	7,466	498	6.4
Fuel Oil	13,218	9,420	7,627	1,600	Q	11.2
District Heat	5,339	2,893	2,541	350	Q	17.6
District Chilled Water	2,066	1,074	896	Q	Q	27.3
Propane	3,393	2,694	2,066	589	Q	18.1
Any Other	1,551	1,082	964	Q	Q	31.1
Energy End Uses (more than one may apply)						
Heated Buildings	61,996	47,518	35,293	11,404	821	6.0
Air-Conditioned Buildings	57,041	43,913	32,220	11,001	692	7.2
Buildings with Water Heating	58,479	44,627	33,171	10,804	651	6.5
Buildings with Cooking	23,065	15,001	10,893	4,018	Q	12.4
Buildings with Manufacturing	3,174	2,844	2,274	480	Q	19.7

See footnotes at end of table.

Table A23. Occupancy of Nongovernment-Owned Buildings, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Floorspace of All Nongovernment-Owned Buildings				RSE Row Factor
		All Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	
RSE Column Factor:	0.7	0.7	0.7	1.4	2.1	
Climate Zone: 45-Year Average						
Fewer than 2,000 CDD and --						
More than 7,000 HDD	5,623	4,274	3,265	856	Q	19.3
5,500-7,000 HDD	18,024	13,971	11,145	2,429	397	13.4
4,000-5,499 HDD	16,162	12,096	8,582	3,034	481	12.8
Fewer than 4,000 HDD	15,251	11,955	8,781	2,628	546	15.4
More than 2,000 CDD and --						
Fewer than 4,000 HDD	12,816	10,456	6,630	3,325	501	16.1
Predominant Exterior Wall Material						
Masonry	48,585	36,656	26,445	8,944	1,267	7.2
Siding or Shingles	3,873	3,519	2,935	394	190	12.3
Metal Panels	7,392	6,591	5,126	1,197	268	13.8
Concrete Panels	4,961	3,235	1,890	1,166	Q	18.0
Window Glass	2,028	1,736	1,202	380	Q	22.4
Other	1,037	1,015	804	192	Q	30.8
Predominant Roof Material						
Built-Up	30,257	23,928	15,568	7,450	910	9.1
Shingles (Not Wood)	10,570	9,166	7,642	1,212	313	11.2
Metal Surfacing	9,019	7,817	6,013	1,412	392	9.8
Synthetic or Rubber	11,702	7,271	5,401	1,647	Q	10.4
Slate or Tile	1,998	1,546	1,352	147	Q	19.3
Concrete	2,544	1,638	1,335	147	Q	30.7
Other	1,786	1,387	1,091	258	Q	24.5
Floors						
One	25,424	21,067	13,597	6,536	934	9.1
Two	18,025	14,328	11,140	2,697	491	8.2
Three	9,877	6,838	5,355	1,262	Q	11.3
Four to Nine	10,377	7,068	5,794	1,029	Q	14.4
Ten or More	4,173	3,451	2,517	749	Q	19.1
Percent Window Glass						
25 or Less	51,356	40,859	29,506	9,658	1,696	6.4
26 to 50	11,815	8,262	6,143	1,809	Q	10.1
51 to 75	3,206	2,316	1,762	514	Q	16.5
76 to 100	1,499	1,315	992	292	Q	27.5
Workers (main shift)						
Less than 5	17,944	15,976	10,973	3,044	1,959	12.2
5 to 9	7,524	6,524	5,015	1,486	Q	8.6
10 to 19	8,077	6,412	4,933	1,437	Q	12.5
20 to 49	10,556	7,501	5,586	1,880	Q	8.8
50 to 99	7,763	5,132	3,584	1,549	Q	16.8
100 to 249	7,378	4,593	3,110	1,472	Q	17.2
250 or More	8,633	6,614	5,202	1,405	Q	13.2
Weekly Operating Hours						
39 or Fewer	8,246	6,161	3,827	535	1,798	9.7
40 to 48	14,998	11,030	8,209	2,704	Q	8.9
49 to 60	14,046	12,019	9,168	2,796	Q	8.0
61 to 84	12,062	10,020	7,033	2,950	Q	11.0
85 to 167	8,467	6,238	4,707	1,531	Q	10.4
Open Continuously	10,057	7,284	5,459	Q	Q	18.6

See footnotes at end of table.

Table A23. Occupancy of Nongovernment-Owned Buildings, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Floorspace of All Nongovernment-Owned Buildings				RSE Row Factor
		All Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	
RSE Column Factor:	0.7	0.7	0.7	1.4	2.1	
Additional Operating Hours for Equipment Use						
Heating and/or Cooling	20,300	15,568	12,335	3,181	Q	7.7
Lighting	12,886	9,917	7,461	2,370	Q	10.8
Heating and/or Cooling and Lighting	8,717	6,341	5,001	1,297	Q	13.8
No Additional Hours	43,407	33,609	23,607	8,019	1,983	7.3
Percent Vacant for at Least Three Months						
1-50 Percent	12,420	10,916	6,897	4,018	Q	11.2
51-99 Percent	2,263	1,744	1,148	577	Q	21.8
100 Percent	4,109	3,083	679	380	2,023	13.1
None	49,085	37,010	29,679	7,297	Q	6.8
Number of Establishments						
One	47,997	35,556	29,992	5,565	Q	8.0
2 to 5	7,882	6,743	3,536	3,208	Q	11.7
6 to 10	2,562	2,423	1,015	1,408	Q	15.8
11 to 20	2,039	1,806	954	852	Q	22.4
More than 20	4,938	4,147	2,907	1,240	Q	20.2
Currently Unoccupied	2,457	2,077	Q	Q	2,077	12.6
Energy-Related Space Functions (more than one may apply)						
Commercial Food Preparation	22,166	14,098	10,890	3,119	Q	9.0
Computer Room	14,199	10,353	7,652	2,599	Q	11.5
Rooms with Special Ventilation	8,042	4,764	3,845	866	Q	12.7
Activities with Large Amounts of Hot Water	6,862	5,055	4,101	931	Q	13.4
Multibuilding Facility						
Part of Multibuilding Facility	31,564	21,809	15,994	5,231	584	10.4
with Central Physical Plant	8,395	4,120	3,800	306	Q	16.3
No Central Physical Plant	23,170	17,690	12,194	4,925	570	11.5
Not on Multibuilding Facility	36,312	30,943	22,409	7,041	1,492	5.3
Percent of Floorspace Heated						
Not Heated	6,211	5,465	3,193	948	1,324	14.8
1 to 50	11,195	9,251	6,610	2,456	185	14.3
51 to 99	10,211	8,314	6,130	2,152	Q	10.4
100	40,260	29,722	22,470	6,717	535	7.9
Percent of Floorspace Cooled						
Not Cooled	10,835	8,839	6,183	1,271	1,385	10.1
1 to 50	21,715	16,415	12,079	3,949	387	9.6
51 to 99	13,872	10,209	7,727	2,444	Q	10.1
100	21,454	17,290	12,414	4,608	267	11.3
Percent Lit when Open						
Not Lit	3,280	2,810	770	231	1,810	14.1
1 to 50	9,980	8,868	7,015	1,770	Q	10.3
51 to 99	14,224	11,248	8,128	3,057	Q	13.8
100	40,393	29,827	22,490	7,215	Q	6.7

See footnotes at end of table.

Table A23. Occupancy of Nongovernment-Owned Buildings, Floorspace, 1992 (Continued)
(Thousand)

Building Characteristics	Total Floorspace of All Buildings	Floorspace of All Nongovernment-Owned Buildings				RSE Row Factor
		All Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	
RSE Column Factor:	0.6	0.7	0.6	1.5	2.9	
Heating Equipment (more than one may apply)						
Heat Pumps	8,269	7,111	5,146	1,865	Q	13.0
Furnaces	16,909	14,594	10,985	3,360	249	8.7
Individual Space Heaters	22,380	17,823	13,610	3,795	419	8.5
District Heat	5,225	2,840	2,491	347	Q	19.3
Boilers	20,664	13,309	10,172	2,993	Q	13.6
Packaged Heating Units	16,000	13,425	9,074	4,257	Q	10.0
Other	903	760	540	Q	Q	34.1
Heating Distribution Equipment (more than one may apply)						
Radiators or Baseboards	13,263	7,717	6,572	1,078	Q	10.6
Ducts for Heating	45,422	35,535	25,751	9,315	469	6.7
Heating Only	5,950	3,756	3,210	446	Q	16.6
Heating and Cooling	39,472	31,779	22,542	8,869	368	7.3
Variable Air-Volume System Used	11,528	8,140	5,915	2,185	Q	21.7
Fan Coil Units for						
Heating	5,474	3,453	2,661	714	Q	18.4
Heating Only	3,569	2,344	1,781	486	Q	23.7
Heating and Cooling	1,906	1,109	880	Q	Q	27.2
Individual Space Heaters	22,380	17,823	13,610	3,795	419	8.5
Other	3,310	2,571	1,979	583	Q	22.5
Cooling Equipment (more than one may apply)						
Residential-Type Central Air Conditioners	9,021	7,428	5,783	1,591	Q	11.3
Heat Pumps	8,406	7,370	5,361	1,878	Q	12.7
Individual Air Conditioners	17,979	12,747	9,416	3,194	Q	16.3
District Chilled Water	2,066	1,074	896	Q	Q	31.0
Central Chillers	12,991	8,791	6,524	2,091	Q	20.6
Packaged Air-Conditioning Units	27,830	22,455	15,947	6,239	269	7.7
Swamp Coolers	2,085	1,651	1,049	582	Q	26.8
Other	268	Q	Q	Q	Q	64.7
Cooling Distribution Equipment (more than one may apply)						
Ducts for Cooling	47,755	37,741	27,003	10,124	615	7.7
Cooling Only	8,283	5,962	4,461	1,255	Q	13.1
Heating and Cooling	39,472	31,779	22,542	8,869	368	7.3
Variable Air-Volume System Used	12,430	9,296	6,695	2,482	Q	18.9
Fan Coil Units for						
Cooling	3,875	2,425	2,066	359	Q	25.1
Cooling Only	1,969	1,317	1,186	Q	Q	43.6
Heating and Cooling	1,906	1,109	880	Q	Q	27.2
Individual Air Conditioners	17,979	12,747	9,416	3,194	Q	16.3
Other	2,919	2,319	1,723	573	Q	25.8
Lighting Equipment Types (more than one may apply)						
Incandescent	39,221	30,456	24,018	6,198	240	7.3
Standard Fluorescent	62,074	47,490	35,290	11,653	548	6.6
Compact Fluorescent	8,336	6,105	5,089	1,016	Q	13.8
High-Intensity Discharge	17,570	11,374	8,747	2,571	Q	12.3
Other	1,612	1,496	1,052	427	Q	26.6

See footnotes at end of table.

Table A23. Occupancy of Nongovernment-Owned Buildings, Floorspace, 1992 (Continued)
(Thousand)

Building Characteristics	Total Floorspace of All Buildings	Floorspace of All Nongovernment-Owned Buildings				RSE Row Factor
		All Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	
RSE Column Factor:	0.6	0.7	0.6	1.5	2.9	
Personal Computers and/or Computer Terminals						
1 to 4	13,355	11,796	9,027	2,765	Q	8.5
5 to 9	5,970	5,156	3,604	1,553	Q	12.3
10 to 19	6,236	4,516	3,137	1,379	Q	18.1
20 to 49	7,439	4,946	3,515	1,401	Q	18.0
50 to 99	4,908	2,600	1,869	730	Q	18.6
100 to 249	4,220	2,252	1,812	434	Q	19.9
250 or More	5,569	4,123	3,298	825	Q	17.2
Building Shell Conservation Features (more than one may apply)						
Roof or Ceiling Insulation	50,311	38,288	28,012	9,262	1,014	6.5
Wall Insulation	33,240	27,472	20,366	6,417	688	7.9
Storm or Multiple Glazing	29,684	23,696	17,450	5,788	458	9.3
Tinted, Reflective or Shading Glass	25,396	20,146	14,347	5,371	428	11.3
Exterior or Interior Shading or Awnings	34,071	26,322	18,809	6,927	586	8.5
Windows that Open	28,937	19,907	16,151	3,174	582	7.7
HVAC Conservation Features (more than one may apply)						
Variable Air-Volume System	13,970	9,961	7,331	2,508	Q	19.0
Economizer Cycle	18,313	12,921	9,150	3,644	Q	14.0
HVAC Maintenance	49,173	35,994	27,164	8,415	415	8.1
Lighting Conservation Features (more than one may apply)						
Specular Reflectors	15,241	11,234	8,385	2,694	Q	10.2
Natural Lighting Control Sensors	3,072	2,392	1,920	385	Q	18.7
Occupancy Sensors	3,629	2,553	2,147	406	Q	19.1
Time Clock	12,104	10,189	6,876	3,156	Q	17.7
Manual Dimmer Switches	12,329	9,724	8,102	1,568	Q	12.2
Other	2,596	1,607	1,225	341	Q	18.4
Energy Conservation Features (more than one may apply)						
Any Conservation Features	64,403	49,630	36,377	11,630	1,624	6.1
Building Shell	62,056	47,889	35,043	11,369	1,477	6.0
HVAC	50,281	37,005	27,762	8,755	488	7.8
Lighting	29,453	22,860	16,990	5,551	319	10.6
Other	5,952	4,398	3,763	536	Q	13.9
Off-Hour Equipment Reduction (more than one may apply)						
Heating	46,248	35,676	26,466	8,684	526	6.0
Cooling	42,768	33,041	24,214	8,430	398	6.6
Hot Water	9,966	7,052	5,029	1,765	258	10.4
Lighting	54,944	43,036	31,884	10,338	814	5.3
Other	7,996	6,228	4,231	1,939	Q	17.9

See footnotes at end of table.

Table A23. Occupancy of Nongovernment-Owned Buildings, Floorspace, 1992 (Continued)
(Thousand)

Building Characteristics	Total Floorspace of All Buildings	Floorspace of All Nongovernment-Owned Buildings				RSE Row Factor
		All Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	
RSE Column Factor:	0.6	0.7	0.6	1.5	2.9	
Energy Management Practices (more than one may apply)						
Energy Management and Control System	14,320	9,447	7,105	2,307	Q	18.6
Demand-Side Management Participation	11,310	7,030	5,883	1,105	Q	11.2
Energy Audit	14,779	10,274	8,475	1,753	Q	10.3
Building Energy Manager	2,311	1,534	1,398	129	Q	27.7
Demand-Side Management Programs (more than one may apply)						
Building Shell Program	1,079	712	611	Q	Q	30.3
HVAC Program	6,370	4,120	3,407	701	Q	14.3
Lighting Program	8,805	5,492	4,691	772	Q	13.4
Other DSM Programs	6,176	3,682	2,999	682	Q	15.7

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A24. Percent Vacant for at Least Three Months, Number of Buildings and Floorspace, 1992

Building Characteristics RSE Column Factor:	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Percent Vacant for at Least Three Months				All Buildings	Percent Vacant for at Least Three Months				
		None	1 to 50	51 to 99	100		None	1 to 50	51 to 99	100	
		0.5	1.0	1.9	1.5		0.5	0.6	1.1	2.4	
All Buildings	4,806	3,948	362	97	398	67,876	49,085	12,420	2,263	4,109	6.8
Building Floorspace (square feet)											
1,001 to 5,000	2,681	2,281	103	45	253	7,327	6,175	328	141	683	10.1
5,001 to 10,000	975	790	95	24	65	7,199	5,841	710	177	471	9.5
10,001 to 25,000	647	503	82	12	50	10,375	8,055	1,349	183	788	11.4
25,001 to 50,000	280	216	36	8	21	10,069	7,784	1,270	283	733	13.3
50,001 to 100,000	116	85	21	4	6	8,062	5,939	1,441	269	412	13.8
100,001 to 200,000	71	51	14	Q	3	9,678	6,867	2,011	Q	362	18.6
200,001 to 500,000	26	17	7	1	1	7,889	5,157	2,188	229	315	21.0
Over 500,000	9	5	3	Q	Q	7,278	3,267	3,122	Q	Q	39.0
Principal Building Activity											
Education	301	253	Q	Q	36	8,470	7,489	Q	Q	540	15.8
Food Sales	130	128	Q	Q	Q	757	753	Q	Q	Q	27.7
Food Service	260	242	Q	Q	Q	1,491	1,256	Q	Q	Q	17.0
Health Care	63	55	7	Q	Q	1,763	1,434	315	Q	Q	27.2
Lodging	154	124	12	Q	Q	2,891	2,526	219	Q	Q	25.8
Mercantile and Service	1,272	1,161	81	Q	19	12,402	8,697	3,471	Q	100	13.2
Office	749	584	142	15	8	12,319	6,722	5,155	356	86	12.8
Parking Garage	24	22	Q	Q	Q	1,652	1,465	Q	Q	Q	48.2
Public Assembly	278	236	7	Q	27	4,556	3,789	480	Q	134	25.5
Public Order and Safety	60	59	Q	Q	Q	820	776	Q	Q	Q	39.4
Religious Worship	366	344	Q	Q	Q	3,747	3,625	Q	Q	Q	20.8
Warehouse and Storage	761	674	52	Q	25	11,484	9,519	1,464	Q	331	15.9
Other	69	56	Q	Q	Q	1,130	926	Q	Q	Q	31.8
Vacant	319	Q	29	42	240	4,396	Q	433	1,226	2,630	13.7
Year Constructed											
1899 or Before	169	117	32	Q	Q	1,721	1,073	398	Q	Q	24.1
1900 to 1919	255	188	33	Q	20	3,608	2,035	801	Q	413	21.7
1920 to 1945	724	572	53	20	80	8,712	6,435	1,108	485	684	15.4
1946 to 1959	880	746	36	15	83	10,421	8,304	1,272	189	656	13.9
1960 to 1969	783	668	30	9	76	12,612	9,438	2,158	227	788	14.4
1970 to 1979	982	841	65	9	67	14,014	10,377	2,598	344	694	13.4
1980 to 1989	884	719	100	18	46	14,287	9,855	3,515	425	491	14.4
1990 to 1992	128	97	13	Q	16	2,502	1,568	569	Q	269	24.5
Census Region											
Northeast	771	633	86	8	44	13,400	9,120	3,021	508	752	14.3
Midwest	1,202	990	87	24	101	17,280	12,392	3,501	441	946	13.0
South	1,963	1,625	114	47	177	24,577	18,799	3,609	792	1,377	10.1
West	870	700	76	18	76	12,619	8,775	2,289	521	1,034	15.7
Energy Sources (more than one may apply)											
Electricity	4,616	3,881	353	92	289	66,549	48,799	12,390	2,246	3,114	7.0
Natural Gas	2,665	2,284	207	59	114	45,097	32,937	8,826	1,788	1,546	9.0
Fuel Oil	559	487	53	5	15	13,218	8,753	3,586	460	420	16.2
District Heat	95	81	8	2	Q	5,339	3,550	1,234	270	Q	21.3
District Chilled Water	28	22	4	Q	Q	2,066	1,320	516	Q	Q	35.0
Propane	337	294	17	Q	25	3,393	2,711	495	Q	174	24.9
Any Other	163	145	Q	Q	Q	1,551	1,280	Q	Q	Q	28.2
Energy End Uses (more than one may apply)											
Heated Buildings	4,178	3,564	329	85	200	61,996	45,565	11,905	2,122	2,405	7.3
Air-Conditioned Buildings	3,502	2,978	307	70	147	57,041	41,320	11,837	2,009	1,875	7.6
Buildings with Water Heating	3,502	2,975	306	67	154	58,479	42,707	11,837	1,961	1,975	7.7
Buildings with Cooking	734	627	69	10	29	23,065	15,836	5,943	733	553	13.5
Buildings with Manufacturing	121	104	7	Q	Q	3,174	2,088	750	Q	Q	26.2

See footnotes at end of table.

Table A24. Percent Vacant for at Least Three Months, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics RSE Column Factor:	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Percent Vacant for at Least Three Months				All Buildings	Percent Vacant for at Least Three Months				
		None	1 to 50	51 to 99	100		None	1 to 50	51 to 99	100	
	0.5	0.5	1.0	1.9	1.5	0.5	0.6	1.1	2.4	1.6	
Ownership and Occupancy											
Nongovernment Owned	4,206	3,456	344	90	317	52,752	37,010	10,916	1,744	3,083	6.6
Owner Occupied	3,192	2,842	200	58	92	38,403	29,679	6,897	1,148	679	8.0
Nonowner Occupied	817	611	144	31	31	12,273	7,297	4,018	577	380	12.5
Unoccupied	197	Q	Q	Q	194	2,077	Q	Q	Q	2,023	13.0
Government Owned	599	493	18	7	81	15,124	12,075	1,504	Q	1,025	16.2
Percent of Floorspace Heated											
Not Heated	653	402	36	Q	202	6,211	3,636	559	Q	1,792	17.2
1 to 50	688	531	62	45	49	11,195	7,458	2,112	1,020	606	14.0
51 to 99	618	516	84	7	11	10,211	6,887	3,021	210	94	14.4
100	2,846	2,499	179	32	136	40,260	31,105	6,729	809	1,617	8.9
Percent of Floorspace Cooled											
Not Cooled	1,304	970	55	27	251	10,835	7,765	583	253	2,233	12.2
1 to 50	1,176	980	98	40	58	21,715	16,406	3,003	1,183	1,124	10.6
51 to 99	658	559	84	7	8	13,872	8,727	4,844	196	105	15.0
100	1,668	1,439	125	23	81	21,454	16,187	3,990	630	646	11.5
Percent Lit when Open											
Not Lit	413	163	Q	Q	226	3,280	740	Q	Q	2,418	16.6
1 to 50	881	694	97	59	31	9,980	6,886	1,290	1,460	344	12.3
51 to 99	813	678	102	12	21	14,224	9,240	4,459	259	265	13.9
100	2,699	2,413	148	18	120	40,393	32,219	6,601	492	1,081	9.9
Lighting Conservation Features (more than one may apply)											
Specular Reflectors	574	478	65	6	24	15,241	10,009	4,331	430	470	14.3
Natural Lighting Control											
Sensors	74	62	12	Q	Q	3,072	1,826	1,093	Q	Q	23.9
Occupancy Sensors	59	46	10	Q	Q	3,629	2,496	864	Q	Q	20.8
Time Clock	339	267	53	11	8	12,104	6,991	4,293	539	282	17.8
Manual Dimmer Switches	413	354	45	10	5	12,329	8,072	3,723	400	134	16.2
Other	78	60	10	Q	Q	2,596	1,918	429	Q	Q	24.7
Energy Conservation Features (more than one may apply)											
Any Conservation Features	4,357	3,617	336	86	318	64,403	46,647	12,146	2,165	3,445	7.3
Building Shell	4,223	3,498	329	84	312	62,056	44,651	12,027	2,097	3,282	7.4
HVAC	2,604	2,228	234	41	101	50,281	36,157	10,649	1,774	1,701	8.6
Lighting	1,178	991	132	25	30	29,453	20,140	7,548	1,030	734	10.9
Other	264	232	21	Q	Q	5,952	4,621	957	Q	166	18.2
Demand-Side Management Programs (more than one may apply)											
Building Shell Program	36	29	5	Q	Q	1,079	725	301	Q	Q	34.7
HVAC Program	154	121	22	6	Q	6,370	4,271	1,849	184	Q	17.3
Lighting Program	228	193	27	5	Q	8,805	5,918	2,458	317	Q	17.5
Other DSM Programs	110	90	16	Q	Q	6,176	4,110	1,917	Q	Q	21.9

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A25. Multibuilding Facility, Number of Buildings and Floorspace, 1992

Building Characteristics	Number of Buildings (thousand)			Total Floorspace (million square feet)			RSE Row Factor
	All Buildings	Part of Multibuilding Facility		All Buildings	Part of Multibuilding Facility		
		All Buildings in Multibuilding Facilities	Buildings in Multibuilding Facilities with Central Physical Plant		All Buildings in Multibuilding Facilities	Buildings in Multibuilding Facilities with Central Physical Plant	
RSE Column Factor:	0.6	0.9	1.6	0.7	1.0	1.6	
All Buildings	4,806	1,667	223	67,876	31,564	8,395	6.0
Building Floorspace (square feet)							
1,001 to 5,000	2,681	858	76	7,327	2,315	194	9.5
5,001 to 10,000	975	334	38	7,199	2,447	274	7.9
10,001 to 25,000	647	244	47	10,375	3,834	732	8.3
25,001 to 50,000	280	123	32	10,069	4,399	1,132	10.1
50,001 to 100,000	116	49	11	8,062	3,354	749	10.6
100,001 to 200,000	71	37	10	9,678	5,083	1,292	13.9
200,001 to 500,000	26	15	7	7,889	4,665	2,089	13.2
Over 500,000	9	7	2	7,278	5,467	1,933	26.6
Principal Building Activity							
Education	301	217	54	8,470	5,115	1,458	11.6
Food Sales	130	Q	Q	757	Q	Q	21.7
Food Service	260	47	Q	1,491	415	Q	16.6
Health Care	63	27	9	1,763	1,156	766	16.1
Lodging	154	107	15	2,891	1,578	729	15.2
Mercantile and Service	1,272	281	20	12,402	4,691	Q	12.4
Office	749	236	44	12,319	4,978	1,882	10.6
Parking	24	12	2	1,652	1,155	Q	33.8
Public Assembly	278	102	19	4,556	2,717	500	19.3
Public Order and Safety	60	18	Q	820	427	Q	33.4
Religious Worship	366	86	Q	3,747	930	Q	16.6
Warehouse	761	396	28	11,484	5,963	611	13.0
Other	69	44	7	1,130	750	348	22.3
Vacant	319	84	7	4,396	1,613	448	18.2
Year Constructed							
1899 or Before	169	47	3	1,721	498	107	21.2
1900 to 1919	255	61	14	3,608	979	214	19.1
1920 to 1945	724	193	26	8,712	3,567	1,291	13.9
1946 to 1959	880	298	61	10,421	4,589	1,149	11.3
1960 to 1969	783	275	42	12,612	6,429	2,364	11.0
1970 to 1979	982	372	28	14,014	6,761	1,770	10.4
1980 to 1989	884	355	35	14,287	7,368	1,086	11.6
1990 to 1992	128	66	14	2,502	1,374	414	17.7
Census Region							
Northeast	771	254	33	13,400	5,614	1,954	12.1
Midwest	1,202	364	50	17,280	7,445	2,697	11.7
South	1,963	698	89	24,577	12,426	2,280	10.3
West	870	350	51	12,619	6,080	1,463	11.6
Energy Sources (more than one may apply)							
Electricity	4,616	1,587	220	66,549	31,027	8,340	6.1
Natural Gas	2,665	767	105	45,097	19,999	5,381	7.2
Fuel Oil	559	181	32	13,218	6,497	2,170	10.8
District Heat	95	83	82	5,339	4,506	4,253	11.7
District Chilled Water	28	27	27	2,066	1,784	1,710	17.4
Propane	337	121	5	3,393	1,562	277	20.1
Any Other	163	53	Q	1,551	592	Q	22.6

See footnotes at end of table.

Table A25. Multibuilding Facility, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)			Total Floorspace (million square feet)			RSE Row Factor
	All Buildings	Part of Multibuilding Facility		All Buildings	Part of Multibuilding Facility		
		All Buildings in Multibuilding Facilities	Buildings in Multibuilding Facilities with Central Physical Plant		All Buildings in Multibuilding Facilities	Buildings in Multibuilding Facilities with Central Physical Plant	
RSE Column Factor:	0.6	0.9	1.6	0.7	1.0	1.6	
Energy End Uses (more than one may apply)							
Heated Buildings	4,178	1,338	208	61,996	28,365	8,088	6.3
Air-Conditioned Buildings	3,502	1,090	174	57,041	26,158	7,402	6.8
Buildings with Water Heating	3,502	1,070	175	58,479	26,766	7,895	6.5
Buildings with Cooking	734	199	33	23,065	11,516	3,526	10.5
Buildings with Manufacturing	121	45	9	3,174	1,523	587	20.2
Workers (main shift)							
Less than 5	2,718	931	84	17,944	7,519	1,201	11.1
5 to 9	895	279	32	7,524	2,769	489	10.9
10 to 19	561	194	46	8,077	3,648	908	12.3
20 to 49	405	163	34	10,556	4,574	1,010	9.8
50 to 99	130	50	12	7,763	3,306	900	11.9
100 to 249	64	34	7	7,378	4,706	1,326	13.1
250 or More	31	17	8	8,633	5,042	2,560	12.8
Weekly Operating Hours							
39 or Fewer	1,039	336	30	8,246	2,970	594	12.5
40 to 48	1,278	508	96	14,998	7,118	1,428	8.7
49 to 60	1,004	298	25	14,046	5,417	1,037	10.2
61 to 84	645	206	17	12,062	5,526	1,070	11.3
85 to 167	478	118	15	8,467	3,878	1,437	14.7
Open Continuously	362	201	39	10,057	6,655	2,830	12.4
Ownership and Occupancy							
Nongovernment Owned	4,206	1,280	112	52,752	21,809	4,120	7.0
Owner Occupied	3,192	1,019	100	38,403	15,994	3,800	6.8
Nonowner Occupied	817	220	10	12,273	5,231	306	14.9
Unoccupied	197	42	Q	2,077	584	Q	20.2
Government Owned	599	386	111	15,124	9,755	4,275	9.9
Principal Facility Activity							
Education							
Primary or Secondary	211	211	52	4,046	4,046	859	13.5
College	48	48	29	2,485	2,485	1,732	18.2
Other	26	26	Q	364	364	Q	34.6
Retail Sales and Service							
Shopping Center/Mall	55	55	Q	2,352	2,352	Q	21.6
Automotive Sales and Service	79	79	Q	667	667	Q	23.3
Other	231	231	Q	1,798	1,798	Q	15.2
Other							
Office	140	140	13	3,931	3,931	1,162	17.3
Warehouse	229	229	Q	4,992	4,992	Q	16.8
Industrial/Manufacturing	119	119	47	2,124	2,124	1,206	19.1
Hospital or Other Health Service	56	56	20	2,193	2,193	1,444	16.4
Religious Activities	153	153	Q	1,397	1,397	Q	16.8
Hotel/Motel	77	77	Q	802	802	Q	24.4
Amusement or Recreation	92	92	7	Q	Q	Q	20.9
Transportation	35	35	Q	1,103	1,103	Q	38.0
Residential	Q	Q	Q	Q	Q	NF	Q
Agricultural	30	30	Q	160	160	Q	42.8

See footnotes at end of table.

Table A25. Multibuilding Facility, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)			Total Floorspace (million square feet)			RSE Row Factor
	All Buildings	Part of Multibuilding Facility		All Buildings	Part of Multibuilding Facility		
		All Buildings in Multibuilding Facilities	Buildings in Multibuilding Facilities with Central Physical Plant		All Buildings in Multibuilding Facilities	Buildings in Multibuilding Facilities with Central Physical Plant	
RSE Column Factor:	0.6	0.9	1.6	0.7	1.0	1.6	
Central Plant that Produces (more than one may apply)							
District Hot Water	129	129	129	4,598	4,598	4,598	14.2
District Steam	125	125	125	5,534	5,534	5,534	14.0
District Chilled Water	91	91	91	4,191	4,191	4,191	15.3
Electricity	65	65	65	1,903	1,903	1,903	25.6
Demand-Side Management Programs (more than one may apply)							
Building Shell Program	36	21	5	1,079	478	169	25.9
HVAC Program	154	74	23	6,370	3,541	1,623	14.6
Lighting Program	228	96	27	8,805	4,630	2,262	14.5
Other DSM Programs	110	49	22	6,176	3,379	1,945	16.6

NF = No applicable RSE row factor.

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A26. Energy-Related Space Functions, Number of Buildings, 1992
(Thousand)

Building Characteristics	All Buildings	Space Functions (more than one may apply)				RSE Row Factor
		Commercial Food Preparation	Computer Room	Rooms with Special Ventilation	Activity with Large Amount of Hot Water	
RSE Column Factor:	0.5	0.9	1.2	1.3	1.4	
All Buildings	4,806	735	223	236	203	6.4
Building Floorspace (square feet)						
1,001 to 5,000	2,681	323	37	80	74	11.7
5,001 to 10,000	975	136	31	52	29	13.9
10,001 to 25,000	647	114	46	44	47	11.0
25,001 to 50,000	280	70	41	25	26	12.3
50,001 to 100,000	116	44	31	17	12	12.1
100,001 to 200,000	71	29	24	11	9	13.6
200,001 to 500,000	26	15	10	6	6	14.6
Over 500,000	9	5	4	2	1	19.6
Principal Building Activity						
Education	301	98	32	28	12	13.2
Food Sales	130	40	Q	Q	Q	26.9
Food Service	260	246	Q	Q	18	12.9
Health Care	63	8	5	11	9	27.1
Lodging	154	37	6	Q	50	19.8
Mercantile and Service	1,272	89	39	54	62	12.5
Office	749	30	81	35	14	14.2
Parking Garage	24	Q	Q	Q	Q	44.4
Public Assembly	278	81	4	18	18	18.4
Public Order and Safety	60	Q	Q	Q	Q	35.0
Religious Worship	366	68	Q	Q	Q	20.7
Warehouse and Storage	761	13	20	20	Q	21.2
Other	69	Q	11	16	7	25.8
Vacant	319	18	5	Q	Q	24.8
Year Constructed						
1899 or Before	169	41	Q	Q	Q	20.9
1900 to 1919	255	42	12	Q	Q	20.5
1920 to 1945	724	101	26	25	25	15.4
1946 to 1959	880	134	33	39	42	12.0
1960 to 1969	783	122	43	38	45	12.6
1970 to 1979	982	155	44	54	44	11.8
1980 to 1989	884	120	51	51	35	11.3
1990 to 1992	128	21	6	10	5	22.3
Census Region						
Northeast	771	142	50	45	37	12.8
Midwest	1,202	203	55	61	53	11.1
South	1,963	257	67	77	71	11.3
West	870	134	51	52	41	15.8
Energy Sources (more than one may apply)						
Electricity	4,616	735	223	236	203	6.4
Natural Gas	2,665	533	149	162	154	7.5
Fuel Oil	559	101	51	43	23	13.4
District Heat	95	19	11	17	6	18.2
District Chilled Water	28	8	5	3	2	28.4
Propane	337	84	18	22	29	21.6
Any Other	163	13	Q	Q	Q	25.9

See footnotes at end of table.

Table A26. Energy-Related Space Functions, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	Space Functions (more than one may apply)				RSE Row Factor
		Commercial Food Preparation	Computer Room	Rooms with Special Ventilation	Activity with Large Amount of Hot Water	
RSE Column Factor:	0.5	0.9	1.2	1.3	1.4	
Energy End Uses (more than one may apply)						
Heated Buildings	4,178	714	222	229	194	6.4
Air-Conditioned Buildings	3,502	661	223	215	164	6.6
Buildings with Water Heating	3,502	729	211	219	202	6.4
Buildings with Cooking	734	732	53	70	80	8.2
Buildings with Manufacturing	121	13	16	19	8	26.7
Predominant Exterior Wall Materials						
Masonry	3,115	544	159	167	169	7.0
Siding or Shingles	764	129	11	18	20	19.7
Metal Panels	745	31	23	34	Q	18.0
Concrete Panels	87	15	15	10	7	20.3
Window Glass	46	15	9	Q	Q	29.5
Other	47	1	5	Q	Q	38.4
Predominant Roof Materials						
Built-Up	1,642	283	102	92	72	8.3
Shingles (Not Wood)	1,381	234	29	51	59	11.6
Metal Surfacing	1,037	76	25	41	20	17.8
Synthetic or Rubber	386	80	51	37	36	12.5
Slate or Tile	155	22	7	8	10	24.5
Concrete	37	7	2	Q	Q	40.2
Other	167	33	7	Q	Q	25.9
Floors						
One	3,007	379	79	123	93	9.4
Two	1,154	191	61	61	62	9.8
Three	446	103	43	29	31	13.3
Four to Nine	186	54	34	21	15	17.2
Ten or More	13	7	6	2	3	20.9
Workers (main shift)						
Less than 5	2,718	260	30	75	71	12.1
5 to 9	895	156	32	50	33	13.4
10 to 19	561	126	26	38	39	13.2
20 to 49	405	105	56	38	32	11.4
50 to 99	130	43	30	19	17	13.0
100 to 249	64	26	29	10	8	13.4
250 or More	31	18	20	6	4	12.0
Weekly Operating Hours						
39 or Fewer	1,039	116	13	13	Q	18.6
40 to 48	1,278	90	76	76	21	13.9
49 to 60	1,004	83	46	46	21	12.5
61 to 84	645	149	44	34	43	11.6
85 to 167	478	220	20	41	47	12.7
Open Continuously	362	77	23	27	62	13.2
Ownership and Occupancy						
Nongovernment Owned	4,206	616	176	183	178	6.9
Owner Occupied	3,192	497	138	149	145	7.4
Nonowner Occupied	817	112	36	33	31	14.8
Unoccupied	197	Q	Q	Q	Q	20.0
Government Owned	599	119	47	53	25	12.7
Multibuilding Facility						
Part of Multibuilding Facility	1,667	198	107	101	84	9.7
with Central Physical Plant	223	33	19	25	16	16.1
No Central Physical Plant	1,444	165	89	76	68	11.2
Not on Multibuilding Facility	3,139	537	115	135	119	7.5

See footnotes at end of table.

Table A26. Energy-Related Space Functions, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	Space Functions (more than one may apply)					RSE Row Factor
	All Buildings	Commercial Food Preparation	Computer Room	Rooms with Special Ventilation	Activity with Large Amount of Hot Water	
RSE Column Factor:	0.5	0.9	1.2	1.3	1.4	
Percent of Floorspace Heated						
Not Heated	653	21	Q	Q	Q	22.4
1 to 50	688	58	34	30	18	15.5
51 to 99	618	135	38	41	32	13.6
100	2,846	521	151	158	142	6.9
Percent of Floorspace Cooled						
Not Cooled	1,304	75	Q	21	39	16.3
1 to 50	1,176	158	73	84	47	10.4
51 to 99	658	178	56	45	45	11.0
100	1,668	324	93	86	72	9.0
Heating Equipment (more than one may apply)						
Heat Pumps	449	79	22	28	22	17.3
Furnaces	1,692	259	63	75	66	10.2
Individual Space Heaters	1,464	180	70	77	76	9.6
District Heat	93	18	11	17	6	18.3
Boilers	624	176	78	58	58	8.9
Packaged Heating Units	870	217	66	64	51	11.7
Other	42	18	6	Q	Q	37.0
Cooling Equipment (more than one may apply)						
Residential-Type Central Air Conditioners	816	118	43	37	28	15.0
Heat Pumps	454	80	25	28	20	17.2
Individual Air Conditioners	1,023	188	70	54	57	10.3
District Chilled Water	28	8	5	3	2	28.4
Central Chillers	142	52	37	25	16	13.5
Packaged Air-Conditioning Units	1,459	345	127	112	84	8.4
Swamp Coolers	179	38	5	15	15	30.7
Other	8	Q	Q	Q	Q	84.1
Personal Computers and/or Computer Terminals						
1 to 4	1,269	179	53	75	61	10.7
5 to 9	336	44	31	24	16	14.3
10 to 19	216	34	29	21	13	14.6
20 to 49	164	41	42	20	12	16.6
50 to 99	59	21	24	12	4	15.1
100 to 249	34	11	19	8	3	14.9
250 or More	19	11	13	4	3	18.7
Energy Conservation Features (more than one may apply)						
Any Conservation Features	4,357	728	223	235	197	6.4
Building Shell	4,223	709	221	229	193	6.4
HVAC	2,604	545	200	177	139	6.8
Lighting	1,178	275	105	96	73	8.8
Other	264	52	20	26	20	17.0
Energy Management Practices (more than one may apply)						
Energy Management and Control System	236	78	49	30	22	12.4
Demand-Side Management Participation	315	95	41	31	22	12.7
Energy Audit	521	131	55	35	32	11.0
Building Energy Manager	49	12	7	4	6	24.7

See footnotes at end of table.

Table A26. Energy-Related Space Functions, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	Space Functions (more than one may apply)				RSE Row Factor
		Commercial Food Preparation	Computer Room	Rooms with Special Ventilation	Activity with Large Amount of Hot Water	
RSE Column Factor:	0.5	0.9	1.2	1.3	1.4	
Demand-Side Management Programs (more than one may apply)						
Building Shell Program	36	8	4	6	Q	31.7
HVAC Program	154	48	22	21	13	15.8
Lighting Program	228	67	34	22	14	16.1
Other DSM Programs	110	41	18	19	12	18.9

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A27. Energy-Related Space Functions, Number of Buildings, 1992
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Space Functions (more than one may apply)				RSE Row Factor
		Commercial Food Preparation	Computer Room	Rooms with Special Ventilation	Activity with Large Amount of Hot Water	
RSE Column Factor:	0.6	0.9	1.1	1.2	1.4	
All Buildings	67,876	22,166	14,199	8,042	6,862	6.2
Building Floorspace (square feet)						
1,001 to 5,000	7,327	911	118	241	194	12.3
5,001 to 10,000	7,199	994	231	394	223	13.6
10,001 to 25,000	10,375	1,848	756	742	796	11.2
25,001 to 50,000	10,069	2,627	1,534	851	1,002	12.8
50,001 to 100,000	8,062	3,110	2,127	1,095	815	11.8
100,001 to 200,000	9,678	4,062	3,217	1,628	1,245	13.4
200,001 to 500,000	7,889	4,639	3,096	1,839	1,706	15.1
Over 500,000	7,278	3,975	3,119	1,250	880	18.0
Principal Building Activity						
Education	8,470	5,676	2,202	2,176	1,380	11.8
Food Sales	757	350	Q	Q	Q	24.7
Food Service	1,491	1,453	Q	Q	176	15.0
Health Care	1,763	1,294	953	1,006	540	15.8
Lodging	2,891	1,596	548	Q	1,755	21.9
Mercantile and Service	12,402	3,806	1,092	778	1,117	16.2
Office	12,319	3,674	5,569	1,496	792	11.9
Parking Garage	1,652	Q	Q	Q	Q	45.2
Public Assembly	4,556	1,769	442	433	544	24.4
Public Order and Safety	820	Q	Q	Q	Q	39.5
Religious Worship	3,747	1,231	Q	Q	Q	22.0
Warehouse and Storage	11,484	346	2,079	563	Q	20.2
Other	1,130	Q	396	632	185	22.6
Vacant	4,396	507	550	Q	Q	34.8
Year Constructed						
1899 or Before	1,721	495	Q	Q	Q	21.1
1900 to 1919	3,608	1,334	673	Q	Q	27.6
1920 to 1945	8,712	2,225	1,439	1,030	803	18.7
1946 to 1959	10,421	2,849	1,436	1,051	908	11.6
1960 to 1969	12,612	4,924	3,057	1,840	1,244	13.6
1970 to 1979	14,014	5,067	2,857	1,951	1,856	10.8
1980 to 1989	14,287	4,414	3,748	1,362	1,365	12.4
1990 to 1992	2,502	859	811	437	454	18.9
Census Region						
Northeast	13,400	5,740	3,736	1,998	1,714	13.2
Midwest	17,280	5,804	3,265	2,499	1,867	10.2
South	24,577	6,870	3,966	2,163	2,317	10.5
West	12,619	3,753	3,233	1,381	964	12.4
Energy Sources (more than one may apply)						
Electricity	66,549	22,166	14,199	8,036	6,862	6.2
Natural Gas	45,097	18,488	10,618	6,332	5,725	6.8
Fuel Oil	13,218	7,452	5,745	2,995	2,445	9.5
District Heat	5,339	2,280	2,124	1,627	818	15.3
District Chilled Water	2,066	920	839	500	416	23.0
Propane	3,393	1,545	925	542	561	19.6
Any Other	1,551	394	Q	Q	Q	30.7

See footnotes at end of table.

Table A27. Energy-Related Space Functions, Number of Buildings, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Space Functions (more than one may apply)				RSE Row Factor
		Commercial Food Preparation	Computer Room	Rooms with Special Ventilation	Activity with Large Amount of Hot Water	
RSE Column Factor:	0.6	0.9	1.1	1.2	1.4	
Energy End Uses (more than one may apply)						
Heated Buildings	61,996	21,833	14,170	7,995	6,829	6.3
Air-Conditioned Buildings	57,041	21,096	14,199	7,744	6,546	6.5
Buildings with Water Heating	58,479	22,095	13,947	7,890	6,857	6.4
Buildings with Cooking	23,065	22,159	7,328	4,178	4,813	8.2
Buildings with Manufacturing	3,174	525	810	864	421	21.1
Predominant Exterior Wall Materials						
Masonry	48,585	17,270	9,222	5,898	5,571	6.7
Siding or Shingles	3,873	919	297	100	185	17.9
Metal Panels	7,392	677	958	723	Q	22.1
Concrete Panels	4,961	1,998	1,713	682	694	20.4
Window Glass	2,028	993	1,309	478	231	25.5
Other	1,037	309	701	Q	Q	32.8
Predominant Roof Materials						
Built-Up	30,257	10,364	7,468	3,567	3,043	8.3
Shingles (Not Wood)	10,570	2,931	905	761	814	16.9
Metal Surfacing	9,019	1,157	772	651	311	18.7
Synthetic or Rubber	11,702	6,039	3,852	2,250	2,250	11.7
Slate or Tile	1,998	671	180	374	295	27.3
Concrete	2,544	570	488	Q	Q	37.7
Other	1,786	435	535	Q	Q	20.2
Floors						
One	25,424	5,058	2,680	1,509	1,279	11.2
Two	18,025	5,512	2,934	1,633	1,773	10.5
Three	9,877	4,208	2,245	1,701	1,493	11.5
Four to Nine	10,377	4,716	3,700	2,317	1,485	12.6
Ten or More	4,173	2,672	2,640	881	832	18.4
Workers (main shift)						
Less than 5	17,944	1,783	409	553	537	16.1
5 to 9	7,524	1,322	391	348	318	14.6
10 to 19	8,077	1,719	538	615	708	15.7
20 to 49	10,556	3,419	1,898	1,274	1,201	11.9
50 to 99	7,763	3,424	2,504	1,467	1,369	13.7
100 to 249	7,378	3,998	2,795	1,647	1,349	16.2
250 or More	8,633	6,502	5,666	2,139	1,380	12.1
Weekly Operating Hours						
39 or Fewer	8,246	1,828	435	322	Q	18.4
40 to 48	14,998	3,014	2,954	1,748	717	12.4
49 to 60	14,046	3,118	3,207	1,401	750	12.0
61 to 84	12,062	5,188	3,200	1,481	1,163	13.4
85 to 167	8,467	4,754	1,618	1,191	1,429	14.9
Open Continuously	10,057	4,264	2,786	1,899	2,528	12.7
Ownership and Occupancy						
Nongovernment Owned	52,752	14,098	10,353	4,764	5,055	7.1
Owner Occupied	38,403	10,890	7,652	3,845	4,101	7.1
Nonowner Occupied	12,273	3,119	2,599	866	931	15.2
Unoccupied	2,077	Q	Q	Q	Q	20.2
Government Owned	15,124	8,068	3,847	3,277	1,807	10.9
Multibuilding Facility						
Part of Multibuilding Facility	31,564	10,614	7,663	4,636	3,141	9.5
with Central Physical Plant	8,395	3,526	2,478	2,281	1,413	15.0
No Central Physical Plant	23,170	7,088	5,185	2,355	1,728	11.4
Not on Multibuilding Facility	36,312	11,553	6,537	3,405	3,721	6.9

See footnotes at end of table.

Table A27. Energy-Related Space Functions, Number of Buildings, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Space Functions (more than one may apply)				RSE Row Factor
		Commercial Food Preparation	Computer Room	Rooms with Special Ventilation	Activity with Large Amount of Hot Water	
RSE Column Factor:	0.6	0.9	1.1	1.2	1.4	
Percent of Floorspace Heated						
Not Heated	6,211	Q	Q	Q	Q	18.7
1 to 50	11,195	2,040	1,621	816	332	20.3
51 to 99	10,211	4,284	2,934	1,539	1,556	11.6
100	40,260	15,428	9,614	5,640	4,937	6.9
Percent of Floorspace Cooled						
Not Cooled	10,835	1,070	Q	297	316	18.1
1 to 50	21,715	5,468	4,313	2,570	1,371	10.8
51 to 99	13,872	7,211	4,650	2,271	2,472	11.1
100	21,454	8,417	5,236	2,904	2,704	9.2
Heating Equipment (more than one may apply)						
Heat Pumps	8,269	2,871	2,290	1,054	1,470	15.2
Furnaces	16,909	4,459	2,291	1,261	1,300	11.2
Individual Space Heaters	22,380	7,233	5,158	2,902	2,580	9.0
District Heat	5,225	2,198	2,070	1,592	783	15.6
Boilers	20,664	10,439	6,599	3,915	3,490	9.6
Packaged Heating Units	16,000	6,349	4,384	1,773	2,137	11.3
Other	903	513	418	Q	Q	28.7
Cooling Equipment (more than one may apply)						
Residential-Type Central Air Conditioners	9,021	2,553	1,762	975	911	14.4
Heat Pumps	8,406	2,991	2,355	1,101	1,392	13.9
Individual Air Conditioners	17,979	6,750	4,361	2,339	2,338	11.5
District Chilled Water	2,066	920	839	500	416	23.0
Central Chillers	12,991	7,823	5,942	3,247	2,261	10.8
Packaged Air-Conditioning Units	27,830	10,896	8,419	4,013	3,496	8.0
Swamp Coolers	2,085	755	482	343	213	29.5
Other	268	Q	Q	Q	Q	63.6
Personal Computers and/or Computer Terminals						
1 to 4	13,355	2,810	931	822	1,358	12.6
5 to 9	5,970	1,802	1,071	591	726	15.5
10 to 19	6,236	2,026	1,212	774	460	17.6
20 to 49	7,439	2,875	2,312	1,183	847	14.5
50 to 99	4,908	2,800	2,053	1,110	828	16.1
100 to 249	4,220	2,353	2,408	1,441	744	16.5
250 or More	5,569	4,239	4,052	1,554	1,089	15.8
Energy Conservation Features (more than one may apply)						
Any Conservation Features	64,403	22,132	14,199	8,006	6,824	6.3
Building Shell	62,056	21,922	14,056	7,862	6,721	6.3
HVAC	50,281	20,551	13,133	7,303	6,314	6.6
Lighting	29,453	12,988	8,990	4,912	3,579	8.5
Other	5,952	2,615	1,708	1,116	985	15.0
Energy Management Practices (more than one may apply)						
Energy Management and Control System	14,320	8,356	6,313	3,351	2,517	10.8
Demand-Side Management Participation	11,310	6,788	4,078	2,448	2,048	10.7
Energy Audit	14,779	7,392	5,238	2,747	2,169	10.0
Building Energy Manager	2,311	1,108	849	538	588	21.3

See footnotes at end of table.

Table A27. Energy-Related Space Functions, Number of Buildings, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Space Functions (more than one may apply)				RSE Row Factor
		Commercial Food Preparation	Computer Room	Rooms with Special Ventilation	Activity with Large Amount of Hot Water	
RSE Column Factor:	0.6	0.9	1.1	1.2	1.4	
Demand-Side Management Programs (more than one may apply)						
Building Shell Program	1,079	622	480	197	Q	25.0
HVAC Program	6,370	3,964	2,540	1,612	1,303	12.8
Lighting Program	8,805	5,394	3,325	1,897	1,533	12.5
Other DSM Programs	6,176	4,240	2,660	1,469	1,431	14.5

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A28. Additional Operating Hours for Equipment Use, Number of Buildings and Floorspace, 1992

Building Characteristics	Number of Buildings (thousand)			Total Floorspace (million square feet)			RSE Row Factor
	All Buildings	Type of Equipment		All Buildings	Type of Equipment		
		Heating and/or Cooling	Lighting		Heating and/or Cooling	Lighting	
RSE Column Factor:	0.7	1.2	1.4	0.7	1.0	1.3	
All Buildings	4,806	1,223	633	67,876	20,300	12,886	5.5
Building Floorspace (square feet)							
1,001 to 5,000	2,681	626	307	7,327	1,778	860	8.8
5,001 to 10,000	975	256	145	7,199	1,905	1,096	7.4
10,001 to 25,000	647	171	83	10,375	2,904	1,374	8.0
25,001 to 50,000	280	90	45	10,069	3,211	1,663	9.8
50,001 to 100,000	116	44	30	8,062	2,970	2,022	10.3
100,001 to 200,000	71	26	14	9,678	3,378	1,970	11.4
200,001 to 500,000	26	8	6	7,889	2,487	1,912	14.1
Over 500,000	9	2	2	7,278	1,667	1,990	24.4
Principal Building Activity							
Education	301	82	35	8,470	3,246	2,073	10.3
Food Sales	130	48	30	757	217	152	21.3
Food Service	260	74	43	1,491	462	237	15.5
Health Care	63	24	Q	1,763	258	Q	18.8
Lodging	154	Q	Q	2,891	Q	Q	17.2
Mercantile and Service	1,272	357	217	12,402	4,530	3,097	10.3
Office	749	269	119	12,319	5,119	3,530	8.8
Parking Garage	24	Q	Q	1,652	Q	188	33.5
Public Assembly	278	85	33	4,556	1,183	511	14.3
Public Order and Safety	60	Q	Q	820	Q	Q	30.3
Religious Worship	366	101	22	3,747	1,177	458	14.3
Warehouse and Storage	761	116	75	11,484	2,604	1,435	11.0
Other	69	16	9	1,130	405	288	24.4
Vacant	319	26	29	4,396	843	680	21.0
Year Constructed							
1899 or Before	169	52	35	1,721	684	286	19.8
1900 to 1919	255	81	48	3,608	1,400	1,026	18.6
1920 to 1945	724	189	112	8,712	2,376	1,359	11.8
1946 to 1959	880	223	99	10,421	3,102	1,626	9.8
1960 to 1969	783	182	96	12,612	3,753	2,567	9.9
1970 to 1979	982	241	129	14,014	3,924	2,827	9.0
1980 to 1989	884	213	103	14,287	4,315	2,662	10.3
1990 to 1992	128	41	12	2,502	747	535	20.9
Census Region							
Northeast	771	248	99	13,400	4,360	2,417	12.3
Midwest	1,202	351	152	17,280	5,688	3,181	9.4
South	1,963	431	264	24,577	6,468	4,704	9.8
West	870	192	119	12,619	3,785	2,584	11.1
Energy Sources (more than one may apply)							
Electricity	4,616	1,223	633	66,549	20,300	12,886	5.5
Natural Gas	2,665	791	413	45,097	15,139	9,756	6.3
Fuel Oil	559	176	84	13,218	4,279	3,197	12.0
District Heat	95	37	12	5,339	1,664	1,200	16.1
District Chilled Water	28	9	3	2,066	603	298	25.1
Propane	337	71	33	3,393	782	584	16.8
Any Other	163	52	26	1,551	632	275	25.2

See footnotes at end of table.

Table A28. Additional Operating Hours for Equipment Use, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)			Total Floorspace (million square feet)			RSE Row Factor
	All Buildings	Type of Equipment		All Buildings	Type of Equipment		
		Heating and/or Cooling	Lighting		Heating and/or Cooling	Lighting	
RSE Column Factor:	0.7	1.2	1.4	0.7	1.0	1.3	
Energy End Uses (more than one may apply)							
Heated Buildings	4,178	1,211	602	61,996	19,914	12,377	5.7
Air-Conditioned Buildings	3,502	1,034	525	57,041	18,624	12,026	5.9
Buildings with Water Heating	3,502	1,080	543	58,479	19,464	12,198	5.7
Buildings with Cooking	734	231	121	23,065	7,483	5,749	8.5
Buildings with Manufacturing	121	34	19	3,174	866	583	18.7
Workers (main shift)							
Less than 5	2,718	554	313	17,944	3,200	1,933	9.1
5 to 9	895	277	120	7,524	2,201	1,059	9.4
10 to 19	561	166	75	8,077	2,332	1,085	11.4
20 to 49	405	139	69	10,556	3,587	1,914	8.1
50 to 99	130	50	29	7,763	3,234	1,784	11.4
100 to 249	64	26	20	7,378	2,750	2,181	12.6
250 or More	31	11	8	8,633	2,996	2,931	13.9
Weekly Operating Hours							
39 or Fewer	1,039	177	86	8,246	1,930	1,156	12.0
40 to 48	1,278	399	181	14,998	5,989	2,876	8.4
49 to 60	1,004	297	155	14,046	5,667	3,407	7.9
61 to 84	645	188	102	12,062	4,349	3,471	9.7
85 to 167	478	161	109	8,467	2,366	1,976	11.6
Open Continuously	362	Q	Q	10,057	Q	Q	14.5
Heating Equipment (more than one may apply)							
Heat Pumps	449	139	71	8,269	2,828	1,616	14.2
Furnaces	1,692	551	253	16,909	5,881	3,254	8.6
Individual Space Heaters	1,464	407	174	22,380	7,133	4,246	7.9
District Heat	93	36	12	5,225	1,629	1,186	16.2
Boilers	624	231	114	20,664	7,793	4,826	7.6
Packaged Heating Units	870	224	129	16,000	4,379	3,121	9.6
Other	42	11	Q	903	287	Q	31.4
Heating Distribution Equipment (more than one may apply)							
Radiators or Baseboards	473	183	79	13,263	4,906	2,485	9.2
Ducts for Heating	2,955	906	451	45,422	15,148	9,544	6.0
Heating Only	577	180	80	5,950	2,063	996	13.1
Heating and Cooling	2,378	726	372	39,472	13,085	8,548	6.3
Variable Air-Volume System	210	69	33	11,528	3,820	2,736	11.3
Fan Coil Units for Heating	99	40	16	5,474	1,750	990	14.7
Heating Only	78	30	12	3,569	1,218	673	17.1
Heating and Cooling	21	10	3	1,906	532	317	23.3
Individual Space Heaters	1,464	407	174	22,380	7,133	4,246	7.9
Other	181	61	32	3,310	1,395	986	18.0
Cooling Equipment (more than one may apply)							
Residential-Type Central Air Conditioners	816	250	126	9,021	3,081	2,020	11.1
Heat Pumps	454	144	79	8,406	2,865	1,751	13.5
Individual Air Conditioners	1,023	305	140	17,979	5,772	3,434	10.0
District Chilled Water	28	9	3	2,066	603	298	25.1
Central Chillers	142	57	37	12,991	4,149	3,550	11.7
Packaged Air-Conditioning Units	1,459	419	222	27,830	9,179	6,096	7.0
Swamp Coolers	179	48	32	2,085	748	281	23.6
Other	8	Q	Q	268	Q	Q	59.7

See footnotes at end of table.

Table A28. Additional Operating Hours for Equipment Use, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)			Total Floorspace (million square feet)			RSE Row Factor
	All Buildings	Type of Equipment		All Buildings	Type of Equipment		
		Heating and/or Cooling	Lighting		Heating and/or Cooling	Lighting	
RSE Column Factor:	0.7	1.2	1.4	0.7	1.0	1.3	
Cooling Distribution Equipment (more than one may apply)							
Ducts for Cooling	2,733	816	431	47,755	15,626	10,209	6.0
Cooling Only	355	90	60	8,283	2,541	1,661	11.7
Heating and Cooling	2,378	726	372	39,472	13,085	8,548	6.3
Variable Air-volume System	221	67	39	12,430	3,784	2,943	10.7
Fan Coil Units for Cooling	56	22	10	3,875	1,412	992	22.0
Cooling Only	35	12	7	1,969	880	675	32.3
Heating and Cooling	21	10	3	1,906	532	317	23.3
Individual Air Conditioners	1,023	305	140	17,979	5,772	3,434	10.0
Other	111	33	20	2,919	1,004	681	22.8
Lighting Equipment Types (more than one may apply)							
Incandescent	2,509	754	377	39,221	13,294	8,116	6.4
Standard Fluorescent	4,065	1,155	601	62,074	19,932	12,574	5.5
Compact Fluorescent	206	75	49	8,336	2,733	2,146	12.0
High-Intensity Discharge	354	115	72	17,570	5,420	3,650	8.9
Other	78	20	11	1,612	471	281	23.4
Building Shell Conservation Features (more than one may apply)							
Roof or Ceiling Insulation	3,343	987	459	50,311	16,818	10,152	6.2
Wall Insulation	2,320	695	320	33,240	11,362	6,874	7.3
Storm or Multiple Glazing	1,680	621	235	29,684	10,372	5,630	7.6
Tinted, Reflective or Shading Glass	1,068	300	173	25,396	8,027	5,645	8.5
Exterior or Interior Shading or Awnings	1,853	599	293	34,071	11,573	7,212	7.0
Windows that Open	2,119	577	244	28,937	8,091	4,538	7.1
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	250	77	43	13,970	4,460	3,302	10.4
Economizer Cycle	414	130	93	18,313	5,987	4,581	10.8
HVAC Maintenance	2,503	778	356	49,173	16,520	10,587	6.2
Lighting Conservation Features (more than one may apply)							
Specular Reflectors	574	173	96	15,241	4,852	3,320	10.0
Natural Lighting Control Sensors	74	16	20	3,072	692	746	16.6
Occupancy Sensors	59	20	14	3,629	1,304	819	16.3
Time Clock	339	91	89	12,104	3,633	3,343	12.5
Manual Dimmer Switches	413	146	73	12,329	3,897	2,808	9.8
Other	78	29	14	2,596	961	583	17.2
Energy Conservation Features (more than one may apply)							
Any Conservation Features	4,357	1,203	594	64,403	20,168	12,550	5.8
Building Shell	4,223	1,176	579	62,056	19,610	12,295	5.9
HVAC	2,604	809	380	50,281	17,027	10,779	6.3
Lighting	1,178	369	223	29,453	9,492	6,747	7.1
Other	264	101	46	5,952	2,136	1,312	12.5

See footnotes at end of table.

Table A28. Additional Operating Hours for Equipment Use, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)			Total Floorspace (million square feet)			RSE Row Factor
	All Buildings	Type of Equipment		All Buildings	Type of Equipment		
		Heating and/or Cooling	Lighting		Heating and/or Cooling	Lighting	
RSE Column Factor:	0.7	1.2	1.4	0.7	1.0	1.3	
Energy Management Practices (more than one may apply)							
Energy Management and Control System	236	80	38	14,320	4,970	3,820	10.4
Demand-Side Management Participation	315	124	63	11,310	3,956	2,834	9.6
Energy Audit	521	188	82	14,779	5,473	3,792	9.3
Building Energy Manager	49	12	9	2,311	545	485	21.3
Demand-Side Management Programs (more than one may apply)							
Building Shell Program	36	13	4	1,079	372	251	24.0
HVAC Program	154	63	34	6,370	2,235	1,540	12.2
Lighting Program	228	87	45	8,805	2,900	2,082	11.6
Other DSM Programs	110	39	29	6,176	1,911	1,612	13.9

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A29. Energy Sources, Number of Buildings, 1992
(Thousand)

Building Characteristics	All Buildings	All Buildings Using Any Energy Source	Energy Sources Used (more than one may apply)							RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Wood	
RSE Column Factor:	0.5	0.5	0.5	0.6	1.1	1.6	2.2	1.6	2.0	
All Buildings	4,806	4,620	4,616	2,665	559	95	28	337	103	7.7
Building Floorspace (Square Feet)										
1,001 to 5,000	2,681	2,543	2,539	1,331	288	18	Q	218	70	10.8
5,001 to 10,000	975	954	954	574	125	11	Q	62	25	10.7
10,001 to 25,000	647	628	628	420	62	28	8	32	Q	11.6
25,001 to 50,000	280	275	275	181	39	16	9	15	Q	13.0
50,001 to 100,000	116	114	114	83	21	10	Q	6	Q	13.0
100,001 to 200,000	71	70	70	52	11	6	2	3	Q	15.3
200,001 to 500,000	26	25	25	18	10	5	2	Q	Q	16.5
Over 500,000	9	9	9	6	4	1	1	Q	Q	30.1
Principal Building Activity										
Education	301	301	301	196	28	21	9	16	Q	15.8
Food Sales	130	130	130	71	Q	Q	Q	Q	Q	26.6
Food Service	260	260	260	196	22	Q	Q	30	Q	16.3
Health Care	63	63	63	45	7	2	Q	Q	Q	27.0
Lodging	154	154	154	98	18	9	Q	17	Q	20.8
Mercantile and Service	1,272	1,270	1,268	765	198	9	Q	107	49	11.6
Office	749	749	749	474	87	24	8	15	Q	12.5
Parking Garage	24	24	24	11	Q	Q	Q	Q	Q	49.5
Public Assembly	278	278	278	171	29	10	Q	26	Q	15.6
Public Order and Safety	60	60	60	37	15	Q	Q	Q	Q	32.3
Religious Worship	366	366	366	209	60	Q	Q	52	Q	18.3
Warehouse and Storage	761	685	685	265	63	Q	Q	40	Q	14.3
Other	69	65	65	29	11	4	Q	Q	Q	29.9
Vacant	319	215	213	98	13	2	Q	Q	Q	18.3
Year Constructed										
1899 or Before	169	169	169	112	31	4	Q	Q	Q	24.3
1900 to 1919	255	244	244	178	52	10	Q	Q	Q	18.6
1920 to 1945	724	683	681	437	105	13	Q	42	37	13.4
1946 to 1959	880	839	839	515	107	22	7	60	Q	13.2
1960 to 1969	783	759	759	465	89	22	5	53	Q	12.4
1970 to 1979	982	945	945	517	91	9	5	67	Q	12.4
1980 to 1989	884	855	855	387	74	11	Q	73	Q	11.7
1990 to 1992	128	127	124	53	8	Q	Q	20	Q	26.2
Census Region										
Northeast	771	755	755	370	284	23	2	71	Q	14.6
Midwest	1,202	1,141	1,139	847	79	24	7	80	35	14.8
South	1,963	1,878	1,876	888	182	28	10	153	38	12.4
West	870	845	845	560	14	21	9	Q	Q	18.1
Energy Sources (more than one may apply)										
Electricity	4,616	4,616	4,616	2,665	556	95	28	335	99	7.6
Natural Gas	2,665	2,665	2,665	2,665	130	35	15	20	23	10.3
Fuel Oil	559	559	556	130	559	11	2	61	Q	15.5
District Heat	95	95	95	35	11	95	24	Q	Q	16.7
District Chilled Water	28	28	28	15	2	24	28	Q	Q	24.0
Propane	337	337	335	20	61	Q	Q	337	Q	22.4
Any Other	163	163	159	43	34	Q	Q	Q	103	19.4
Energy End Uses (more than one may apply)										
Heated Buildings	4,178	4,178	4,173	2,627	554	95	28	330	102	7.7
Air-Conditioned Buildings	3,502	3,502	3,502	2,263	378	82	28	230	29	8.0
Buildings with Water Heating	3,502	3,502	3,502	2,333	435	82	22	244	49	7.9
Buildings with Cooking	734	734	734	532	101	19	8	84	Q	11.2
Buildings with Manufacturing	121	121	118	83	20	6	Q	15	Q	24.5

See footnotes at end of table.

Table A29. Energy Sources, Number of Buildings, 1992 (Continued)

(Thousand)

Building Characteristics	All Buildings	All Buildings Using Any Energy Source	Energy Sources Used (more than one may apply)							RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Wood	
RSE Column Factor:	0.5	0.5	0.5	0.6	1.1	1.6	2.2	1.6	2.0	
Climate Zone: 45-Year Average										
Fewer than 2,000 CDD and --										
More than 7,000 HDD	399	382	382	228	80	10	Q	34	Q	26.9
5,500-7,000 HDD	1,134	1,089	1,089	766	184	29	5	70	Q	19.1
4,000-5,499 HDD	1,077	1,043	1,039	481	211	27	4	105	39	23.1
Fewer than 4,000 HDD	1,101	1,058	1,058	649	Q	13	10	88	Q	23.9
More than 2,000 CDD and --										
Fewer than 4,000 HDD	1,095	1,048	1,048	541	32	16	9	41	Q	20.3
Workers (main shift)										
Less than 5	2,718	2,534	2,530	1,266	304	22	Q	215	84	10.7
5 to 9	895	895	895	560	94	14	Q	64	Q	10.7
10 to 19	561	560	560	383	67	22	10	33	Q	12.8
20 to 49	405	405	405	300	43	17	5	16	Q	13.0
50 to 99	130	130	130	87	21	10	3	5	Q	15.7
100 to 249	64	64	64	48	15	4	2	4	Q	15.3
250 or More	31	31	31	22	14	7	3	Q	Q	14.6
Weekly Operating Hours										
39 or Fewer	1,039	891	889	407	119	11	Q	94	Q	14.3
40 to 48	1,278	1,270	1,270	753	146	34	8	59	34	11.0
49 to 60	1,004	994	992	599	131	16	4	69	Q	12.0
61 to 84	645	641	641	404	77	9	4	44	Q	10.8
85 to 167	478	475	475	299	41	7	Q	46	Q	15.2
Open Continuously	362	349	349	202	44	19	5	26	Q	13.6
Ownership and Occupancy										
Nongovernment Owned	4,206	4,041	4,037	2,309	483	44	11	305	94	8.7
Owner Occupied	3,192	3,131	3,127	1,814	413	35	9	240	78	9.1
Nonowner Occupied	817	796	796	458	63	9	Q	57	Q	13.6
Unoccupied	197	114	114	37	Q	Q	Q	Q	Q	24.9
Government Owned	599	578	578	356	75	51	18	32	Q	12.3
Energy-Related Space Functions (more than one may apply)										
Commercial Food Preparation	735	735	735	533	101	19	8	84	Q	11.3
Computer Room	223	223	223	149	51	11	5	18	Q	15.1
Rooms with Special Ventilation	236	236	236	162	43	17	3	22	Q	15.9
Activity with Large Amounts of Hot Water	203	203	203	154	23	6	2	29	Q	14.7

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A30. Energy Sources, Percent of Buildings, 1992

Building Characteristics	All Buildings	All Buildings Using Any Energy Source	Energy Sources Used (more than one may apply)							RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Wood	
RSE Column Factor:	--	0.1	0.1	0.7	2.1	2.9	4.2	2.7	3.3	
All Buildings	100.0	96.1	96.0	55.5	11.6	2.0	0.6	7.0	2.2	4.6
Building Floorspace (Square Feet)										
1,001 to 5,000	100.0	94.8	94.7	49.6	10.7	0.7	Q	8.1	2.6	6.6
5,001 to 10,000	100.0	97.9	97.9	58.9	12.8	1.1	Q	6.4	2.6	7.4
10,001 to 25,000	100.0	97.1	97.1	64.8	9.5	4.4	1.2	5.0	Q	7.6
25,001 to 50,000	100.0	97.9	97.9	64.6	13.7	5.6	3.3	5.4	Q	7.9
50,001 to 100,000	100.0	98.7	98.5	71.7	18.4	8.4	Q	4.8	Q	6.3
100,001 to 200,000	100.0	99.7	99.7	73.7	15.5	8.9	2.9	4.4	Q	6.1
200,001 to 500,000	100.0	96.8	96.8	70.9	38.7	18.1	9.0	Q	Q	10.1
Over 500,000	100.0	99.9	99.9	64.7	37.9	15.6	7.2	Q	Q	6.8
Principal Building Activity										
Education	100.0	100.0	100.0	65.2	9.2	7.0	3.0	5.2	Q	8.2
Food Sales	100.0	100.0	100.0	54.6	Q	Q	Q	Q	Q	15.8
Food Service	100.0	100.0	100.0	75.6	8.5	Q	Q	11.6	Q	8.4
Health Care	100.0	100.0	100.0	71.5	11.7	3.6	Q	Q	Q	12.9
Lodging	100.0	100.0	100.0	63.8	11.7	5.9	Q	11.4	Q	11.1
Mercantile and Service	100.0	99.9	99.7	60.2	15.6	0.7	Q	8.4	3.8	5.0
Office	100.0	100.0	100.0	63.3	11.6	3.2	1.0	2.1	Q	7.1
Parking Garage	100.0	100.0	100.0	45.8	Q	Q	Q	Q	Q	33.8
Public Assembly	100.0	100.0	100.0	61.4	10.4	3.7	Q	9.4	Q	9.5
Public Order and Safety	100.0	100.0	100.0	61.8	24.3	Q	Q	Q	Q	14.2
Religious Worship	100.0	100.0	100.0	57.1	16.5	Q	Q	14.1	Q	9.5
Warehouse and Storage	100.0	90.0	90.0	34.8	8.2	Q	Q	5.3	Q	13.2
Other	100.0	94.2	94.2	41.6	16.4	5.6	Q	Q	Q	27.8
Vacant	100.0	67.3	66.6	30.8	4.1	0.8	Q	Q	Q	22.0
Year Constructed										
1899 or Before	100.0	100.0	100.0	66.5	18.4	2.2	Q	Q	Q	0.9
1900 to 1919	100.0	95.7	95.5	69.7	20.3	3.9	Q	Q	Q	11.7
1920 to 1945	100.0	94.2	94.0	60.4	14.5	1.8	Q	5.8	5.1	9.4
1946 to 1959	100.0	95.4	95.4	58.6	12.2	2.6	0.8	6.9	Q	8.2
1960 to 1969	100.0	96.9	96.9	59.4	11.4	2.9	0.7	6.7	Q	7.0
1970 to 1979	100.0	96.2	96.2	52.7	9.3	0.9	0.5	6.8	Q	8.2
1980 to 1989	100.0	96.7	96.7	43.8	8.4	1.3	Q	8.3	Q	8.2
1990 to 1992	100.0	98.9	97.3	41.4	6.6	Q	Q	15.3	Q	13.1
Census Region										
Northeast	100.0	98.0	98.0	48.0	36.8	3.0	0.3	9.3	Q	9.3
Midwest	100.0	94.9	94.7	70.5	6.6	2.0	0.6	6.7	2.9	8.9
South	100.0	95.7	95.6	45.2	9.3	1.4	0.5	7.8	1.9	7.1
West	100.0	97.1	97.1	64.4	1.6	2.4	1.0	Q	Q	10.3
Energy Sources (more than one may apply)										
Electricity	100.0	100.0	100.0	57.7	12.1	2.1	0.6	7.3	2.2	4.3
Natural Gas	100.0	100.0	100.0	100.0	4.9	1.3	0.6	0.8	0.8	6.5
Fuel Oil	100.0	100.0	99.6	23.2	100.0	2.0	0.4	10.9	Q	8.0
District Heat	100.0	100.0	99.7	36.6	11.7	100.0	24.9	Q	Q	7.3
District Chilled Water	100.0	100.0	100.0	52.9	8.6	83.5	100.0	Q	Q	8.9
Propane	100.0	100.0	99.4	6.1	18.0	Q	Q	100.0	Q	15.0
Any Other	100.0	100.0	97.5	26.6	20.6	Q	Q	Q	63.4	11.0
Energy End Uses (more than one may apply)										
Heated Buildings	100.0	100.0	99.9	62.9	13.3	2.3	0.7	7.9	2.4	3.4
Air-Conditioned Buildings	100.0	100.0	100.0	64.6	10.8	2.3	0.8	6.6	0.8	4.5
Buildings with Water Heating	100.0	100.0	100.0	66.6	12.4	2.3	0.6	7.0	1.4	4.4
Buildings with Cooking	100.0	100.0	100.0	72.4	13.7	2.5	1.1	11.5	Q	6.0
Buildings with Manufacturing	100.0	100.0	98.2	68.9	16.8	5.4	Q	12.0	Q	13.0

See footnotes at end of table.

Table A30. Energy Sources, Percent of Buildings, 1992 (Continued)

Building Characteristics	All Buildings	All Buildings Using Any Energy Source	Energy Sources Used (more than one may apply)							RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Wood	
RSE Column Factor:	--	0.1	0.1	0.7	2.1	2.9	4.2	2.7	3.3	
Climate Zone: 45-Year Average										
Fewer than 2,000 CDD and --										
More than 7,000 HDD	100.0	95.6	95.6	57.2	20.2	2.5	Q	8.4	Q	16.1
5,500-7,000 HDD	100.0	96.1	96.1	67.6	16.2	2.6	0.5	6.1	Q	9.7
4,000-5,499 HDD	100.0	96.9	96.5	44.7	19.6	2.5	0.4	9.7	3.7	9.0
Fewer than 4,000 HDD	100.0	96.1	96.1	58.9	4.7	1.2	0.9	8.0	Q	11.9
More than 2,000 CDD and --										
Fewer than 4,000 HDD	100.0	95.7	95.7	49.4	2.9	1.4	0.8	3.7	Q	9.7
Workers (main shift)										
Less than 5	100.0	93.2	93.1	46.6	11.2	0.8	Q	7.9	3.1	6.9
5 to 9	100.0	100.0	100.0	62.5	10.5	1.6	Q	7.2	Q	6.9
10 to 19	100.0	99.7	99.7	68.3	12.0	3.9	1.7	5.8	Q	6.1
20 to 49	100.0	100.0	100.0	74.0	10.6	4.1	1.2	3.9	Q	7.4
50 to 99	100.0	100.0	100.0	67.1	16.4	7.9	2.5	3.8	Q	8.3
100 to 249	100.0	100.0	100.0	74.7	23.9	5.6	3.0	6.0	Q	7.5
250 or More	100.0	100.0	100.0	69.3	43.2	21.7	8.6	Q	Q	7.2
Weekly Operating Hours										
39 or Fewer	100.0	85.7	85.5	39.1	11.5	1.0	Q	9.1	Q	11.9
40 to 48	100.0	99.3	99.3	58.9	11.4	2.6	0.6	4.6	2.6	5.5
49 to 60	100.0	99.0	98.8	59.7	13.1	1.6	0.4	6.9	Q	7.0
61 to 84	100.0	99.4	99.4	62.7	11.9	1.3	0.6	6.8	Q	5.8
85 to 167	100.0	99.3	99.3	62.5	8.6	1.5	Q	9.5	Q	7.7
Open Continuously	100.0	96.5	96.5	55.9	12.3	5.2	1.5	7.0	Q	9.2
Ownership and Occupancy										
Nongovernment Owned	100.0	96.1	96.0	54.9	11.5	1.0	0.3	7.2	2.2	5.5
Owner Occupied	100.0	98.1	98.0	56.8	12.9	1.1	0.3	7.5	2.4	5.3
Nonowner Occupied	100.0	97.4	97.4	56.1	7.8	1.1	Q	6.9	Q	9.0
Unoccupied	100.0	58.0	58.0	18.9	Q	Q	Q	Q	Q	56.4
Government Owned	100.0	96.5	96.5	59.4	12.6	8.5	2.9	5.4	Q	6.4
Energy-Related Space Functions (more than one may apply)										
Commercial Food Preparation	100.0	100.0	100.0	72.5	13.7	2.5	1.1	11.4	Q	6.0
Computer Room	100.0	100.0	100.0	66.7	23.0	5.1	2.4	8.1	Q	7.0
Rooms with Special Ventilation	100.0	99.8	99.8	68.5	18.3	7.0	1.4	9.4	Q	5.6
Activity with Large Amounts of Hot Water	100.0	100.0	100.0	75.7	11.4	3.2	1.2	14.1	Q	8.1

-- = Data not applicable.

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A31. Energy Sources, Floorspace, 1992
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Buildings Using Any Energy Source	Energy Sources Used (more than one may apply)							RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Wood	
RSE Column Factor:	0.6	0.6	0.6	0.6	1.0	1.5	2.1	1.6	1.9	
All Buildings	67,876	66,574	66,549	45,097	13,218	5,339	2,066	3,393	518	7.1
Building Floorspace (Square Feet)										
1,001 to 5,000	7,327	7,006	6,996	3,761	829	56	Q	573	177	10.9
5,001 to 10,000	7,199	7,057	7,057	4,266	925	73	Q	466	185	10.6
10,001 to 25,000	10,375	10,097	10,097	6,865	978	450	115	456	Q	11.3
25,001 to 50,000	10,069	9,856	9,856	6,510	1,377	545	311	501	Q	13.2
50,001 to 100,000	8,062	7,951	7,936	5,735	1,539	653	Q	411	Q	12.9
100,001 to 200,000	9,678	9,658	9,658	7,134	1,573	780	252	500	Q	15.2
200,001 to 500,000	7,889	7,678	7,678	5,648	3,017	1,532	737	Q	Q	16.7
Over 500,000	7,278	7,271	7,271	5,177	2,980	1,250	515	Q	Q	24.5
Principal Building Activity										
Education	8,470	8,470	8,470	6,849	1,837	688	253	470	Q	13.7
Food Sales	757	757	757	512	Q	Q	Q	Q	Q	28.1
Food Service	1,491	1,491	1,491	1,145	142	Q	Q	158	Q	19.8
Health Care	1,763	1,763	1,763	1,557	1,093	403	227	Q	Q	17.8
Lodging	2,891	2,891	2,891	2,233	827	580	Q	357	Q	22.3
Mercantile and Service	12,402	12,399	12,393	9,382	2,106	148	Q	742	203	15.5
Office	12,319	12,319	12,319	7,855	3,605	1,713	659	211	Q	12.2
Parking Garage	1,652	1,652	1,652	Q	Q	Q	Q	Q	Q	47.8
Public Assembly	4,556	4,556	4,556	2,537	825	348	Q	281	Q	28.0
Public Order and Safety	820	820	820	582	251	Q	Q	Q	Q	40.8
Religious Worship	3,747	3,747	3,747	2,899	532	Q	Q	247	Q	21.1
Warehouse and Storage	11,484	11,179	11,179	6,339	1,012	Q	Q	625	Q	16.7
Other	1,130	1,124	1,124	819	278	326	Q	Q	Q	25.8
Vacant	4,396	3,407	3,388	2,021	575	410	Q	Q	Q	29.0
Year Constructed										
1899 or Before	1,721	1,721	1,721	1,249	344	91	Q	Q	Q	23.5
1900 to 1919	3,608	3,416	3,402	2,826	764	269	Q	Q	Q	25.4
1920 to 1945	8,712	8,400	8,396	5,738	1,748	1,135	Q	390	199	17.0
1946 to 1959	10,421	10,135	10,135	7,294	1,647	566	241	401	Q	13.6
1960 to 1969	12,612	12,479	12,479	8,900	2,363	1,419	376	642	Q	14.2
1970 to 1979	14,014	13,781	13,781	9,230	2,747	976	632	786	Q	12.8
1980 to 1989	14,287	14,153	14,153	8,230	2,862	681	243	810	Q	14.8
1990 to 1992	2,502	2,489	2,483	1,630	743	202	164	212	Q	18.3
Census Region										
Northeast	13,400	13,235	13,235	8,559	5,535	1,560	302	1,041	Q	14.3
Midwest	17,280	16,920	16,914	13,838	2,541	1,884	684	579	140	12.2
South	24,577	24,004	23,985	13,408	3,582	983	659	1,514	168	11.7
West	12,619	12,415	12,415	9,292	1,559	912	421	260	Q	14.0
Energy Sources (more than one may apply)										
Electricity	66,549	66,549	66,549	45,097	13,211	5,324	2,066	3,386	508	7.1
Natural Gas	45,097	45,097	45,097	45,097	8,450	2,798	1,109	814	181	8.9
Fuel Oil	13,218	13,218	13,211	8,450	13,218	1,280	588	1,243	Q	11.0
District Heat	5,339	5,339	5,324	2,798	1,280	5,339	1,737	Q	Q	14.2
District Chilled Water	2,066	2,066	2,066	1,109	588	1,737	2,066	Q	Q	22.1
Propane	3,393	3,393	3,386	814	1,243	Q	Q	3,393	Q	19.1
Any Other	1,551	1,551	1,541	788	375	Q	Q	Q	518	28.1
Energy End Uses (more than one may apply)										
Heated Buildings	61,996	61,996	61,971	44,624	12,933	5,324	2,063	3,340	511	7.3
Air-Conditioned Buildings	57,041	57,041	57,041	41,423	12,081	4,786	2,066	2,837	206	7.9
Buildings with Water Heating	58,479	58,479	58,479	43,151	12,605	5,177	1,978	2,961	322	7.5
Buildings with Cooking	23,065	23,065	23,065	18,487	7,452	2,280	920	1,549	Q	10.7
Buildings with Manufacturing	3,174	3,174	3,167	2,546	739	486	Q	299	Q	22.4

See footnotes at end of table.

Table A31. Energy Sources, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Buildings Using Any Energy Source	Energy Sources Used (more than one may apply)							RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Wood	
RSE Column Factor:	0.6	0.6	0.6	0.6	1.0	1.5	2.1	1.6	1.9	
Climate Zone: 45-Year Average										
Fewer than 2,000 CDD and --										
More than 7,000 HDD	5,623	5,476	5,476	3,685	1,551	513	Q	481	Q	23.6
5,500-7,000 HDD	18,024	17,730	17,730	13,771	4,208	1,944	574	716	Q	15.1
4,000-5,499 HDD	16,162	15,990	15,965	10,517	4,009	1,706	526	869	139	15.3
Fewer than 4,000 HDD	15,251	14,878	14,878	11,017	2,191	595	437	646	Q	21.2
More than 2,000 CDD and --										
Fewer than 4,000 HDD	12,816	12,501	12,501	6,107	1,259	581	467	682	Q	17.7
Workers (main shift)										
Less than 5	17,944	16,665	16,640	8,079	1,793	410	Q	929	332	15.1
5 to 9	7,524	7,524	7,524	4,494	786	321	Q	510	Q	13.1
10 to 19	8,077	8,054	8,054	5,484	884	494	193	402	Q	14.3
20 to 49	10,556	10,556	10,556	8,357	1,094	518	191	445	Q	13.0
50 to 99	7,763	7,763	7,763	5,982	1,487	806	327	384	Q	17.5
100 to 249	7,378	7,378	7,378	6,076	2,314	674	192	484	Q	17.5
250 or More	8,633	8,633	8,633	6,625	4,860	2,115	868	Q	Q	14.0
Weekly Operating Hours										
39 or Fewer	8,246	7,101	7,083	4,032	1,137	375	Q	522	Q	15.9
40 to 48	14,998	14,952	14,952	9,529	2,448	807	312	532	138	11.7
49 to 60	14,046	14,026	14,020	9,575	2,473	1,059	357	674	Q	10.9
61 to 84	12,062	12,028	12,028	9,141	2,320	702	178	533	Q	14.6
85 to 167	8,467	8,455	8,455	6,509	1,695	508	278	493	Q	17.5
Open Continuously	10,057	10,011	10,011	6,311	3,145	1,888	724	639	Q	16.7
Ownership and Occupancy										
Nongovernment Owned	52,752	51,612	51,601	34,151	9,420	2,893	1,074	2,694	478	7.8
Owner Occupied	38,403	38,173	38,162	26,187	7,627	2,541	896	2,066	400	7.6
Nonowner Occupied	12,273	12,156	12,156	7,466	1,600	350	Q	589	Q	15.7
Unoccupied	2,077	1,283	1,283	498	Q	Q	Q	Q	Q	27.1
Government Owned	15,124	14,962	14,948	10,945	3,798	2,446	992	699	Q	12.2
Energy-Related Space Functions (more than one may apply)										
Commercial Food Preparation	22,166	22,166	22,166	18,488	7,452	2,280	920	1,545	Q	10.0
Computer Room	14,199	14,199	14,199	10,618	5,745	2,124	839	925	Q	11.6
Rooms with Special Ventilation	8,042	8,036	8,036	6,332	2,995	1,627	500	542	Q	12.4
Activity with Large Amounts of Hot Water	6,862	6,862	6,862	5,725	2,445	818	416	561	Q	15.5

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A32. Energy Sources, Percent of Floorspace, 1992

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Buildings Using Any Energy Source	Energy Sources Used (more than one may apply)							RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Wood	
RSE Column Factor:	--	0.1	0.1	0.8	2.0	3.2	4.8	3.5	4.1	
All Buildings	100.0	98.1	98.0	66.4	19.5	7.9	3.0	5.0	0.8	3.8
Building Floorspace (Square Feet)										
1,001 to 5,000	100.0	95.6	95.5	51.3	11.3	0.8	Q	7.8	2.4	6.7
5,001 to 10,000	100.0	98.0	98.0	59.3	12.8	1.0	Q	6.5	2.6	7.5
10,001 to 25,000	100.0	97.3	97.3	66.2	9.4	4.3	1.1	4.4	Q	7.7
25,001 to 50,000	100.0	97.9	97.9	64.7	13.7	5.4	3.1	5.0	Q	8.0
50,001 to 100,000	100.0	98.6	98.4	71.1	19.1	8.1	Q	5.1	Q	6.9
100,001 to 200,000	100.0	99.8	99.8	73.7	16.3	8.1	2.6	5.2	Q	5.8
200,001 to 500,000	100.0	97.3	97.3	71.6	38.2	19.4	9.3	Q	Q	10.0
Over 500,000	100.0	99.9	99.9	71.1	40.9	17.2	7.1	Q	Q	5.6
Principal Building Activity										
Education	100.0	100.0	100.0	80.9	21.7	8.1	3.0	5.6	Q	5.9
Food Sales	100.0	100.0	100.0	67.7	Q	Q	Q	Q	Q	11.8
Food Service	100.0	100.0	100.0	76.8	9.5	Q	Q	10.6	Q	10.3
Health Care	100.0	100.0	100.0	88.3	62.0	22.9	12.9	Q	Q	4.7
Lodging	100.0	100.0	100.0	77.3	28.6	20.1	Q	12.3	Q	7.7
Mercantile and Service	100.0	100.0	99.9	75.7	17.0	1.2	Q	6.0	1.6	3.3
Office	100.0	100.0	100.0	63.8	29.3	13.9	5.3	1.7	Q	5.9
Parking Garage	100.0	100.0	100.0	Q	Q	Q	Q	Q	Q	100.0
Public Assembly	100.0	100.0	100.0	55.7	18.1	7.6	Q	6.2	Q	16.2
Public Order and Safety	100.0	100.0	100.0	71.0	30.6	Q	Q	Q	Q	12.1
Religious Worship	100.0	100.0	100.0	77.4	14.2	Q	Q	6.6	Q	7.2
Warehouse and Storage	100.0	97.3	97.3	55.2	8.8	Q	Q	5.4	Q	9.9
Other	100.0	99.5	99.5	72.5	24.6	28.9	15.7	Q	Q	8.7
Vacant	100.0	77.5	77.1	46.0	13.1	9.3	Q	Q	Q	26.8
Year Constructed										
1899 or Before	100.0	100.0	100.0	72.6	20.0	5.3	Q	Q	Q	1.5
1900 to 1919	100.0	94.7	94.3	78.3	21.2	7.5	Q	Q	Q	16.3
1920 to 1945	100.0	96.4	96.4	65.9	20.1	13.0	Q	4.5	2.3	9.8
1946 to 1959	100.0	97.3	97.3	70.0	15.8	5.4	2.3	3.8	Q	7.8
1960 to 1969	100.0	98.9	98.9	70.6	18.7	11.3	3.0	5.1	Q	6.2
1970 to 1979	100.0	98.3	98.3	65.9	19.6	7.0	4.5	5.6	Q	6.9
1980 to 1989	100.0	99.1	99.1	57.6	20.0	4.8	1.7	5.7	Q	6.5
1990 to 1992	100.0	99.5	99.2	65.2	29.7	8.1	6.6	8.5	Q	7.0
Census Region										
Northeast	100.0	98.8	98.8	63.9	41.3	11.6	2.3	7.8	Q	8.0
Midwest	100.0	97.9	97.9	80.1	14.7	10.9	4.0	3.3	0.8	6.5
South	100.0	97.7	97.6	54.6	14.6	4.0	2.7	6.2	0.7	6.3
West	100.0	98.4	98.4	73.6	12.4	7.2	3.3	2.1	Q	8.2
Energy Sources (more than one may apply)										
Electricity	100.0	100.0	100.0	67.8	19.9	8.0	3.1	5.1	0.8	3.3
Natural Gas	100.0	100.0	100.0	100.0	18.7	6.2	2.5	1.8	0.4	4.7
Fuel Oil	100.0	100.0	100.0	63.9	100.0	9.7	4.5	9.4	Q	3.9
District Heat	100.0	100.0	99.7	52.4	24.0	100.0	32.5	Q	Q	5.0
District Chilled Water	100.0	100.0	100.0	53.7	28.5	84.1	100.0	Q	Q	8.2
Propane	100.0	100.0	99.8	24.0	36.6	Q	Q	100.0	Q	8.8
Any Other	100.0	100.0	99.3	50.8	24.2	Q	Q	Q	33.4	11.7
Energy End Uses (more than one may apply)										
Heated Buildings	100.0	100.0	100.0	72.0	20.9	8.6	3.3	5.4	0.8	2.5
Air-Conditioned Buildings	100.0	100.0	100.0	72.6	21.2	8.4	3.6	5.0	0.4	3.6
Buildings with Water Heating	100.0	100.0	100.0	73.8	21.6	8.9	3.4	5.1	0.6	3.5
Buildings with Cooking	100.0	100.0	100.0	80.2	32.3	9.9	4.0	6.7	Q	4.8
Buildings with Manufacturing	100.0	100.0	99.8	80.2	23.3	15.3	Q	9.4	Q	6.8

See footnotes at end of table.

Table A32. Energy Sources, Percent of Floorspace, 1992 (Continued)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Buildings Using Any Energy Source	Energy Sources Used (more than one may apply)							RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	District Chilled Water	Propane	Wood	
RSE Column Factor:	--	0.1	0.1	0.8	2.0	3.2	4.8	3.5	4.1	
Climate Zone: 45-Year Average										
Fewer than 2,000 CDD and --										
More than 7,000 HDD	100.0	97.4	97.4	65.5	27.6	9.1	Q	8.6	Q	13.7
5,500-7,000 HDD	100.0	98.4	98.4	76.4	23.3	10.8	3.2	4.0	Q	7.1
4,000-5,499 HDD	100.0	98.9	98.8	65.1	24.8	10.6	3.3	5.4	0.9	6.2
Fewer than 4,000 HDD	100.0	97.5	97.5	72.2	14.4	3.9	2.9	4.2	Q	8.8
More than 2,000 CDD and --										
Fewer than 4,000 HDD	100.0	97.5	97.5	47.7	9.8	4.5	3.6	5.3	Q	9.2
Workers (main shift)										
Less than 5	100.0	92.9	92.7	45.0	10.0	2.3	Q	5.2	1.9	10.1
5 to 9	100.0	100.0	100.0	59.7	10.4	4.3	Q	6.8	Q	7.9
10 to 19	100.0	99.7	99.7	67.9	10.9	6.1	2.4	5.0	Q	6.3
20 to 49	100.0	100.0	100.0	79.2	10.4	4.9	1.8	4.2	Q	5.8
50 to 99	100.0	100.0	100.0	77.1	19.1	10.4	4.2	4.9	Q	7.9
100 to 249	100.0	100.0	100.0	82.4	31.4	9.1	2.6	6.6	Q	6.1
250 or More	100.0	100.0	100.0	76.7	56.3	24.5	10.1	Q	Q	4.8
Weekly Operating Hours										
39 or Fewer	100.0	86.1	85.9	48.9	13.8	4.5	Q	6.3	Q	13.9
40 to 48	100.0	99.7	99.7	63.5	16.3	5.4	2.1	3.5	0.9	5.1
49 to 60	100.0	99.9	99.8	68.2	17.6	7.5	2.5	4.8	Q	4.0
61 to 84	100.0	99.7	99.7	75.8	19.2	5.8	1.5	4.4	Q	5.3
85 to 167	100.0	99.9	99.9	76.9	20.0	6.0	3.3	5.8	Q	5.3
Open Continuously	100.0	99.5	99.5	62.8	31.3	18.8	7.2	6.4	Q	6.7
Ownership and Occupancy										
Nongovernment Owned	100.0	97.8	97.8	64.7	17.9	5.5	2.0	5.1	0.9	4.6
Owner Occupied	100.0	99.4	99.4	68.2	19.9	6.6	2.3	5.4	1.0	3.8
Nonowner Occupied	100.0	99.1	99.1	60.8	13.0	2.9	Q	4.8	Q	7.9
Unoccupied	100.0	61.8	61.8	24.0	Q	Q	Q	Q	Q	99.6
Government Owned	100.0	98.9	98.8	72.4	25.1	16.2	6.6	4.6	Q	5.2
Energy-Related Space Functions (more than one may apply)										
Commercial Food Preparation	100.0	100.0	100.0	83.4	33.6	10.3	4.2	7.0	Q	3.8
Computer Room	100.0	100.0	100.0	74.8	40.5	15.0	5.9	6.5	Q	4.6
Rooms with Special Ventilation	100.0	99.9	99.9	78.7	37.2	20.2	6.2	6.7	Q	3.4
Activity with Large Amounts of Hot Water	100.0	100.0	100.0	83.4	35.6	11.9	6.1	8.2	Q	5.8

-- = Data not applicable.

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A33. Energy End Uses, Number of Buildings and Floorspace, 1992

Building Characteristics	Number of Buildings (thousand)						Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	Energy Used For:					All Buildings	Energy Used For:					
		Space Heating	Cooling	Water Heating	Cooking	Manufacturing		Space Heating	Cooling	Water Heating	Cooking	Manufacturing	
RSE Column Factor:	0.7	0.7	0.7	0.7	1.1	2.5	0.8	0.8	0.8	0.8	1.3	2.5	
All Buildings	4,806	4,178	3,502	3,502	734	121	67,876	61,996	57,041	58,479	23,065	3,174	5.1
Building Floorspace (square feet)													
1,001 to 5,000	2,681	2,247	1,792	1,733	320	32	7,327	6,210	4,994	4,928	903	97	7.5
5,001 to 10,000	975	883	758	787	137	32	7,199	6,533	5,601	5,834	998	245	6.3
10,001 to 25,000	647	585	519	539	114	32	10,375	9,424	8,364	8,724	1,852	495	7.1
25,001 to 50,000	280	255	236	240	70	11	10,069	9,132	8,435	8,637	2,627	382	9.4
50,001 to 100,000	116	110	103	108	44	9	8,062	7,622	7,185	7,489	3,110	618	8.6
100,001 to 200,000	71	64	59	62	29	3	9,678	8,730	8,072	8,492	4,062	442	10.7
200,001 to 500,000	26	24	24	25	15	1	7,889	7,470	7,217	7,466	4,639	257	13.2
Over 500,000	9	9	9	9	6	1	7,278	6,876	7,174	6,910	4,874	637	26.3
Principal Building Activity													
Education	301	295	251	230	98	Q	8,470	8,379	7,389	8,036	5,676	Q	9.6
Food Sales	130	120	119	124	40	Q	757	723	725	739	350	Q	19.1
Food Service	260	249	244	259	244	Q	1,491	1,435	1,449	1,490	1,450	Q	10.6
Health Care	63	61	59	62	6	Q	1,763	1,746	1,747	1,760	1,289	Q	16.9
Lodging	154	150	120	152	38	Q	2,891	2,870	2,493	2,869	1,600	Q	15.9
Mercantile and Service	1,272	1,214	942	923	89	43	12,402	11,835	10,874	10,809	3,806	532	9.3
Office	749	745	731	705	30	20	12,319	12,255	12,198	12,030	3,674	363	8.5
Parking Garage	24	17	12	13	Q	Q	1,652	1,165	922	933	Q	Q	40.7
Public Assembly	278	257	208	235	82	Q	4,556	4,470	4,077	4,346	2,669	Q	17.8
Public Order and Safety	60	60	47	58	Q	Q	820	820	741	804	Q	Q	27.5
Religious Worship	366	364	286	265	68	Q	3,747	3,737	3,121	3,384	1,231	Q	15.1
Warehouse and Storage	761	445	324	311	13	35	11,484	8,800	7,885	7,887	349	1,395	11.9
Other	69	48	44	43	Q	8	1,130	1,025	1,040	1,001	Q	298	18.8
Vacant	319	154	114	121	18	Q	4,396	2,738	2,382	2,391	507	Q	18.2
Year Constructed													
1899 or Before	169	158	119	126	41	Q	1,721	1,637	1,307	1,457	495	Q	16.6
1900 to 1919	255	232	169	202	42	Q	3,608	3,329	2,759	3,126	1,334	Q	17.1
1920 to 1945	724	623	491	507	101	21	8,712	7,717	6,586	7,004	2,225	542	10.6
1946 to 1959	880	760	643	638	134	20	10,421	9,371	8,260	8,784	2,849	748	8.9
1960 to 1969	783	687	563	580	120	11	12,612	11,548	10,601	11,006	4,920	394	9.5
1970 to 1979	982	850	741	721	154	31	14,014	12,814	12,286	12,369	5,071	652	8.2
1980 to 1989	884	761	682	649	122	21	14,287	13,276	12,985	12,565	5,313	579	10.4
1990 to 1992	128	107	93	79	21	Q	2,502	2,303	2,258	2,167	859	Q	16.7
Census Region													
Northeast	771	694	521	625	142	26	13,400	12,858	11,158	12,410	5,740	756	9.6
Midwest	1,202	1,047	784	906	201	38	17,280	16,303	14,383	15,460	5,800	895	9.4
South	1,963	1,687	1,569	1,307	257	37	24,577	21,659	21,205	19,592	7,768	1,039	8.8
West	870	750	627	664	134	19	12,619	11,176	10,296	11,017	3,757	484	10.4
Energy Sources (more than one may apply)													
Electricity	4,616	4,173	3,502	3,502	734	118	66,549	61,971	57,041	58,479	23,065	3,167	5.1
Natural Gas	2,665	2,627	2,263	2,333	532	83	45,097	44,624	41,423	43,151	18,487	2,546	5.9
Fuel Oil	559	554	378	435	101	20	13,218	12,933	12,081	12,605	7,452	739	10.0
District Heat	95	95	82	82	19	6	5,339	5,324	4,786	5,177	2,280	486	14.4
District Chilled Water	28	28	28	22	8	Q	2,066	2,063	2,066	1,978	920	Q	22.3
Propane	337	330	230	244	84	15	3,393	3,340	2,837	2,961	1,549	299	15.4
Other	163	161	71	96	13	Q	1,551	1,522	1,117	1,287	399	Q	22.5

See footnotes at end of table.

Table A33. Energy End Uses, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)						Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	Energy Used For:					All Buildings	Energy Used For:					
		Space Heating	Cooling	Water Heating	Cooking	Manufacturing		Space Heating	Cooling	Water Heating	Cooking	Manufacturing	
RSE Column Factor:	0.7	0.7	0.7	0.7	1.1	2.5	0.8	0.8	0.8	0.8	1.3	2.5	
Energy End Uses (more than one may apply)													
Heated Buildings	4,178	4,178	3,439	3,436	715	117	61,996	61,996	56,073	57,708	22,736	3,121	5.1
Air-Conditioned Buildings	3,502	3,439	3,502	3,016	663	92	57,041	56,073	57,041	53,839	22,003	2,870	5.4
Buildings with Water Heating	3,502	3,436	3,016	3,502	728	102	58,479	57,708	53,839	58,479	22,993	2,976	5.3
Buildings with Cooking	734	715	663	728	734	13	23,065	22,736	22,003	22,993	23,065	528	7.8
Buildings with Manufacturing	121	117	92	102	13	121	3,174	3,121	2,870	2,976	528	3,174	15.1
Climate Zone: 45-Year Average													
Fewer than 2,000 CDD and --													
More than 7,000 HDD	399	344	229	298	65	19	5,623	5,218	4,267	4,956	1,754	315	17.4
5,500 to 7,000 HDD	1,134	1,018	766	892	198	36	18,024	17,196	14,977	16,377	6,781	1,254	11.4
4,000 to 5,499 HDD	1,077	959	753	815	181	23	16,162	14,966	13,549	14,359	5,847	490	15.1
More than 2,000 CDD and --													
Fewer than 4,000 HDD	1,101	955	838	770	158	20	15,251	13,537	12,870	12,791	4,695	468	16.4
Fewer than 4,000 HDD	1,095	903	915	726	133	23	12,816	11,079	11,379	9,996	3,989	647	14.5
Workers (main shift)													
Less than 5	2,718	2,154	1,623	1,609	260	42	17,944	13,604	10,719	11,207	2,678	334	10.5
5 to 9	895	861	781	777	155	20	7,524	7,075	6,249	6,432	1,326	256	7.7
10 to 19	561	540	502	512	126	23	8,077	7,528	6,954	7,089	1,719	384	9.1
20 to 49	405	401	384	384	105	27	10,556	10,440	9,990	10,215	3,419	916	8.3
50 to 99	130	128	118	126	43	6	7,763	7,652	7,313	7,644	3,424	395	10.6
100 to 249	64	64	63	62	26	3	7,378	7,323	7,195	7,278	3,998	561	12.4
250 or More	31	30	31	31	18	1	8,633	8,374	8,621	8,613	6,502	328	11.6
Weekly Operating Hours													
39 or Fewer	1,039	725	513	507	116	Q	8,246	6,000	4,632	5,005	1,828	Q	11.1
40 to 48	1,278	1,186	1,007	979	89	46	14,998	13,745	12,558	12,613	3,010	891	7.6
49 to 60	1,004	920	786	764	83	34	14,046	13,251	12,218	12,405	3,118	920	7.5
61 to 84	645	603	528	518	149	19	12,062	11,529	11,158	11,308	5,195	418	8.4
85 to 167	478	436	405	435	218	7	8,467	8,141	7,742	8,020	4,750	403	10.6
Open Continuously	362	307	262	300	78	6	10,057	9,329	8,733	9,128	5,163	410	13.4
Energy-Related Space Functions (more than one may apply)													
Commercial Food													
Preparation	735	714	661	729	732	13	22,166	21,833	21,096	22,095	22,159	525	7.2
Computer Room	223	222	223	211	53	16	14,199	14,170	14,199	13,947	7,328	810	10.1
Rooms with Special													
Ventilation	236	229	215	219	70	19	8,042	7,995	7,744	7,890	4,178	864	9.9
Activities with Large													
Amounts of Hot Water	203	194	164	202	80	8	6,862	6,829	6,546	6,857	4,813	421	10.8

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A34. End-Use Combinations, Number of Buildings, 1992

(Thousand)

Building Characteristics	All Buildings	Heated Buildings with Air Conditioning and--			Heated Buildings Without Air Conditioning and--			Buildings Without Heating, Cooling, Water Heating, or Cooking	All Other Combinations	RSE Row Factor
		with Water Heating and Cooking	with Water Heating but Not Cooking	Without Water Heating or Cooking	with Water Heating and Cooking	with Water Heating but Not Cooking	Without Water Heating or Cooking			
RSE Column Factor:	0.4	0.7	0.5	1.0	2.1	1.1	1.1	1.1	2.1	
All Buildings	4,806	651	2,339	445	60	387	292	524	108	8.4
Building Floorspace (square feet)										
1,001 to 5,000	2,681	275	1,140	337	25	244	223	362	75	10.7
5,001 to 10,000	975	124	569	59	Q	77	43	82	Q	13.2
10,001 to 25,000	647	101	370	35	10	49	18	47	Q	16.3
25,001 to 50,000	280	60	161	12	9	8	Q	21	Q	19.2
50,001 to 100,000	116	41	58	Q	Q	5	Q	4	Q	19.0
100,001 to 200,000	71	27	30	Q	Q	Q	Q	Q	Q	18.9
200,001 to 500,000	26	15	9	Q	Q	Q	Q	1	Q	25.1
Over 500,000	9	6	2	Q	Q	Q	Q	Q	Q	55.2
Principal Building Activity										
Education	301	84	102	65	13	27	Q	Q	Q	17.7
Food Sales	130	36	70	Q	Q	Q	Q	Q	Q	31.8
Food Service	260	229	Q	Q	Q	Q	Q	Q	Q	14.6
Health Care	63	6	50	Q	Q	Q	Q	Q	Q	30.1
Lodging	154	32	86	Q	Q	24	Q	Q	Q	25.7
Mercantile and Service	1,272	84	677	167	Q	152	132	42	17	13.9
Office	749	28	661	37	Q	Q	Q	Q	Q	15.7
Parking Garage	24	Q	11	Q	Q	Q	Q	7	Q	51.2
Public Assembly	278	67	122	Q	Q	27	Q	Q	Q	19.0
Public Order and Safety	60	Q	43	Q	Q	Q	Q	Q	Q	39.0
Religious Worship	366	58	157	69	Q	41	Q	Q	Q	21.2
Warehouse and Storage	761	10	235	56	Q	58	85	287	29	17.8
Other	69	Q	35	Q	Q	Q	Q	Q	Q	35.7
Vacant	319	9	78	24	Q	18	16	157	Q	23.1
Year Constructed										
1899 or Before	169	37	67	Q	Q	18	Q	Q	Q	27.5
1900 to 1919	255	35	108	27	Q	53	Q	22	Q	22.4
1920 to 1945	724	76	332	76	19	73	44	91	Q	15.3
1946 to 1959	880	116	421	92	13	70	46	97	24	14.5
1960 to 1969	783	102	379	69	11	65	59	71	27	14.9
1970 to 1979	982	148	494	77	Q	64	64	105	26	15.2
1980 to 1989	884	116	483	71	Q	41	46	107	18	15.6
1990 to 1992	128	21	54	18	Q	Q	Q	20	Q	29.1
Census Region										
Northeast	771	125	368	26	15	107	52	67	Q	16.4
Midwest	1,202	177	560	45	22	139	104	147	Q	14.9
South	1,963	244	989	289	Q	50	112	221	58	13.5
West	870	105	422	85	22	91	24	89	32	19.7
Energy Sources (more than one may apply)										
Electricity	4,616	651	2,339	445	60	387	288	338	108	8.4
Natural Gas	2,665	477	1,549	215	41	241	101	Q	36	11.4
Fuel Oil	559	82	248	48	17	86	74	Q	Q	19.7
District Heat	95	16	53	12	Q	10	Q	Q	Q	23.8
District Chilled Water	28	8	15	Q	Q	Q	Q	Q	Q	41.1
Propane	337	71	118	39	Q	40	53	Q	Q	24.5
Other	163	7	55	Q	Q	Q	59	Q	Q	30.8

See footnotes at end of table.

Table A34. End-Use Combinations, Number of Buildings, 1992 (Continued)

(Thousand)

Building Characteristics	All Buildings	Heated Buildings with Air Conditioning and--			Heated Buildings Without Air Conditioning and--			Buildings Without Heating, Cooling, Water Heating, or Cooking	All Other Combinations	RSE Row Factor
		with Water Heating and Cooking	with Water Heating but Not Cooking	Without Water Heating or Cooking	with Water Heating and Cooking	with Water Heating but Not Cooking	Without Water Heating or Cooking			
RSE Column Factor:	0.4	0.7	0.5	1.0	2.1	1.1	1.1	1.1	2.1	
Energy End Uses (more than one may apply)										
Heated Buildings	4,178	651	2,339	445	60	387	292	Q	Q	8.3
Air-Conditioned Buildings	3,502	651	2,339	445	Q	Q	Q	Q	67	8.9
Buildings with Water Heating	3,502	651	2,339	Q	60	387	Q	Q	66	8.5
Buildings with Cooking	734	651	Q	Q	60	Q	Q	Q	24	10.4
Buildings with Manufacturing	121	11	73	Q	Q	Q	Q	Q	Q	34.6
Climate Zone: 45-Year Average										
Fewer than 2,000 CDD and --										
More than 7,000 HDD	399	54	162	Q	Q	70	34	53	Q	25.5
5,500 to 7,000 HDD	1,134	175	545	44	22	145	87	111	Q	18.2
4,000 to 5,499 HDD	1,077	165	517	67	Q	105	94	98	Q	26.5
Fewer than 4,000 HDD	1,101	132	552	143	Q	54	55	125	23	26.4
More than 2,000 CDD and --										
Fewer than 4,000 HDD	1,095	123	563	179	Q	Q	21	137	58	18.5
Workers (main shift)										
Less than 5	2,718	224	1,042	316	21	278	270	494	73	10.5
5 to 9	895	136	554	78	15	62	Q	19	Q	15.6
10 to 19	561	112	352	31	Q	30	Q	Q	Q	15.3
20 to 49	405	98	267	16	7	10	Q	Q	Q	17.3
50 to 99	130	38	76	Q	Q	Q	Q	Q	Q	17.7
100 to 249	64	25	36	Q	Q	Q	Q	Q	Q	17.9
250 or More	31	18	12	Q	Q	Q	Q	Q	Q	18.8
Weekly Operating Hours										
39 or Fewer	1,039	90	283	123	20	103	103	290	26	13.9
40 to 48	1,278	74	781	141	11	101	79	75	16	14.4
49 to 60	1,004	75	587	104	Q	81	65	57	27	14.2
61 to 84	645	142	324	58	Q	39	32	35	Q	15.6
85 to 167	478	201	180	Q	Q	29	Q	22	20	17.0
Open Continuously	362	68	183	Q	Q	32	Q	44	Q	19.6

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A35. End-Use Combinations, Floorspace, 1992
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Heated Buildings with Air Conditioning and--			Heated Buildings Without Air Conditioning and--			Buildings Without Heating, Cooling, or Water Heating, or Cooking	All Other Combinations	RSE Row Factor
		with Water Heating and Cooking	with Water Heating but Not Cooking	Without Water Heating or Cooking	with Water Heating and Cooking	with Water Heating but Not Cooking	Without Water Heating or Cooking			
RSE Column Factor:	0.4	0.7	0.5	1.1	1.6	1.2	1.2	1.2	2.1	
All Buildings	67,876	21,648	31,692	2,679	1,019	3,349	1,540	4,638	1,312	9.9
Building Floorspace (square feet)										
1,001 to 5,000	7,327	757	3,253	862	89	702	540	918	206	11.0
5,001 to 10,000	7,199	901	4,221	425	94	565	327	585	81	14.0
10,001 to 25,000	10,375	1,667	5,980	518	142	810	293	711	255	16.7
25,001 to 50,000	10,069	2,254	5,675	389	350	273	168	773	187	21.2
50,001 to 100,000	8,062	2,953	3,985	110	Q	350	81	323	137	22.9
100,001 to 200,000	9,678	3,902	4,024	136	Q	405	Q	937	Q	26.8
200,001 to 500,000	7,889	4,574	2,565	54	Q	Q	Q	347	Q	27.0
Over 500,000	7,278	4,641	1,989	Q	1	Q	Q	44	Q	16.8
Principal Building Activity										
Education	8,470	5,124	1,893	357	537	392	Q	Q	Q	18.8
Food Sales	757	335	351	Q	Q	28	Q	Q	34	31.2
Food Service	1,491	1,380	35	Q	Q	Q	Q	Q	Q	29.7
Health Care	1,763	1,281	446	Q	Q	Q	Q	Q	Q	29.1
Lodging	2,891	1,475	982	Q	Q	267	Q	Q	Q	26.7
Mercantile and Service	12,402	3,562	6,199	766	Q	763	531	221	Q	17.6
Office	12,319	3,622	8,284	195	Q	99	Q	Q	Q	17.9
Parking Garage	1,652	Q	636	Q	Q	Q	Q	459	Q	52.8
Public Assembly	4,556	2,535	1,423	99	122	250	35	56	36	31.0
Public Order and Safety	820	279	462	Q	Q	56	Q	Q	Q	47.4
Religious Worship	3,747	1,069	1,775	272	143	393	66	Q	Q	26.0
Warehouse and Storage	11,484	341	6,781	528	Q	624	520	2,370	Q	19.7
Other	1,130	114	850	33	Q	Q	Q	57	Q	35.4
Vacant	4,396	Q	1,574	199	42	250	208	1,468	Q	25.6
Year Constructed										
1899 or Before	1,721	473	754	79	Q	208	101	Q	Q	30.7
1900 to 1919	3,608	1,249	1,368	133	85	424	71	269	Q	28.8
1920 to 1945	8,712	1,898	4,179	480	311	566	278	923	77	21.9
1946 to 1959	10,421	2,511	5,218	420	310	653	245	902	162	18.5
1960 to 1969	12,612	4,618	5,306	513	233	604	253	778	307	20.6
1970 to 1979	14,014	4,806	6,668	407	Q	572	331	788	Q	16.5
1980 to 1989	14,287	5,256	6,944	519	Q	292	215	740	Q	19.5
1990 to 1992	2,502	837	1,255	127	Q	Q	47	154	Q	27.3
Census Region										
Northeast	13,400	5,395	5,515	239	339	1,118	252	493	49	20.3
Midwest	17,280	5,530	8,569	274	262	1,032	634	909	Q	15.6
South	24,577	7,658	11,337	1,731	Q	395	487	2,442	510	16.0
West	12,619	3,064	6,271	435	401	804	167	794	682	19.3
Energy Sources (more than one may apply)										
Electricity	66,549	21,648	31,692	2,679	1,019	3,349	1,515	3,336	1,312	10.2
Natural Gas	45,097	17,427	22,412	1,207	754	2,161	625	Q	Q	11.2
Fuel Oil	13,218	7,009	4,534	283	205	615	287	Q	Q	18.3
District Heat	5,339	2,055	2,600	110	204	303	Q	Q	Q	26.7
District Chilled Water	2,066	911	1,064	82	Q	Q	Q	Q	Q	37.5
Propane	3,393	1,353	1,216	226	153	190	197	Q	Q	26.0
Other	1,551	344	746	Q	Q	142	219	Q	Q	35.7

See footnotes at end of table.

Table A35. End-Use Combinations, Floorspace, 1992 (Continued)

(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Heated Buildings with Air Conditioning and--			Heated Buildings Without Air Conditioning and--			Buildings Without Heating, Cooling, Water Heating, or Cooking	All Other Combinations	RSE Row Factor
		with Water Heating and Cooking	with Water Heating but Not Cooking	Without Water Heating or Cooking	with Water Heating and Cooking	with Water Heating but Not Cooking	Without Water Heating or Cooking			
RSE Column Factor:	0.4	0.7	0.5	1.1	1.6	1.2	1.2	1.2	2.1	
Energy End Uses (more than one may apply)										
Heated Buildings	61,996	21,648	31,692	2,679	1,019	3,349	1,540	Q	69	10.5
Air-Conditioned Buildings	57,041	21,648	31,692	2,679	Q	Q	Q	Q	1,023	10.2
Buildings with Water Heating	58,479	21,648	31,692	Q	1,019	3,349	Q	Q	771	10.8
Buildings with Cooking	23,065	21,648	Q	Q	1,019	Q	Q	Q	Q	12.7
Buildings with Manufacturing	3,174	487	2,287	62	Q	146	106	Q	Q	31.0
Climate Zone: 45-Year Average										
Fewer than 2,000 CDD and --										
More than 7,000 HDD	5,623	1,640	2,471	Q	111	686	153	358	Q	26.5
5,500 to 7,000 HDD	18,024	6,292	8,383	293	489	1,191	548	804	24	18.4
4,000 to 5,499 HDD	16,162	5,666	7,577	274	164	851	435	1,082	113	21.8
Fewer than 4,000 HDD	15,251	4,182	7,543	714	254	517	294	1,263	Q	25.2
More than 2,000 CDD and --										
Fewer than 4,000 HDD	12,816	3,867	5,718	1,244	Q	105	111	1,130	642	24.1
Workers (main shift)										
Less than 5	17,944	2,498	6,625	1,266	135	1,702	1,373	3,833	514	15.9
5 to 9	7,524	1,116	4,408	618	181	661	91	Q	120	18.9
10 to 19	8,077	1,531	4,870	441	160	467	Q	Q	145	19.5
20 to 49	10,556	3,145	6,485	264	251	267	Q	Q	111	19.5
50 to 99	7,763	3,215	3,980	39	192	200	Q	Q	Q	27.1
100 to 249	7,378	3,872	3,233	Q	Q	Q	Q	Q	Q	25.2
250 or More	8,633	6,270	2,091	Q	Q	Q	Q	Q	Q	22.3
Weekly Operating Hours										
39 or Fewer	8,246	1,603	2,283	521	207	820	556	1,970	286	17.0
40 to 48	14,998	2,831	8,696	865	155	816	383	1,056	Q	16.5
49 to 60	14,046	2,810	8,570	645	274	636	283	Q	282	16.6
61 to 84	12,062	4,939	5,664	284	21	423	188	264	Q	20.5
85 to 167	8,467	4,478	3,069	114	221	187	56	217	125	23.9
Open Continuously	10,057	4,986	3,410	Q	142	467	75	585	143	27.9

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A36. Space-Heating Energy Sources, Number of Buildings, 1992
(Thousand)

Building Characteristics	All Buildings	All Heated Buildings	Space-Heating Energy Source Used (more than one may apply)						RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane	Wood	
RSE Column Factor:	0.5	0.5	0.8	0.7	1.3	1.6	1.8	2.1	
All Buildings	4,806	4,178	1,513	2,405	479	94	255	102	7.5
Building Floorspace (square feet)									
1,001 to 5,000	2,681	2,247	779	1,211	259	18	185	68	10.4
5,001 to 10,000	975	883	327	524	117	11	39	25	11.2
10,001 to 25,000	647	585	225	376	49	28	19	Q	11.3
25,001 to 50,000	280	255	101	157	31	15	Q	Q	13.3
50,001 to 100,000	116	110	40	73	12	9	Q	Q	13.0
100,001 to 200,000	71	64	24	45	5	6	Q	Q	14.8
200,001 to 500,000	26	24	10	15	5	5	Q	Q	18.2
Over 500,000	9	9	6	4	1	1	Q	Q	35.6
Principal Building Activity									
Education	301	295	104	182	25	20	Q	Q	15.2
Food Sales	130	120	54	61	Q	Q	Q	Q	26.1
Food Service	260	249	73	162	Q	Q	Q	Q	16.1
Health Care	63	61	23	38	5	2	Q	Q	28.4
Lodging	154	150	87	58	12	9	Q	Q	21.3
Mercantile and Service	1,272	1,214	370	719	183	9	95	48	11.2
Office	749	745	311	439	69	24	Q	Q	11.8
Parking Garage	24	17	6	Q	Q	Q	Q	Q	52.1
Public Assembly	278	257	89	156	25	10	Q	Q	15.4
Public Order and Safety	60	60	19	36	Q	Q	Q	Q	35.1
Religious Worship	366	364	122	193	59	Q	48	Q	18.0
Warehouse and Storage	761	445	173	242	47	Q	38	Q	14.2
Other	69	48	24	21	Q	4	Q	Q	29.5
Vacant	319	154	58	87	Q	2	Q	Q	18.0
Year Constructed									
1899 or Before	169	158	45	105	29	4	Q	Q	24.5
1900 to 1919	255	232	44	162	51	10	Q	Q	19.0
1920 to 1945	724	623	155	405	94	12	30	37	13.6
1946 to 1959	880	760	234	469	97	22	54	Q	12.2
1960 to 1969	783	687	236	419	75	22	34	Q	12.3
1970 to 1979	982	850	375	460	81	9	46	Q	12.0
1980 to 1989	884	761	376	342	49	11	61	Q	12.1
1990 to 1992	128	107	48	44	Q	Q	Q	Q	30.2
Census Region									
Northeast	771	694	162	341	264	23	45	Q	14.2
Midwest	1,202	1,047	194	810	63	23	68	35	15.0
South	1,963	1,687	825	786	148	27	121	38	12.2
West	870	750	332	469	Q	20	Q	Q	17.1
Energy Sources (more than one may apply)									
Electricity	4,616	4,173	1,513	2,405	479	93	253	98	7.5
Natural Gas	2,665	2,627	556	2,405	91	34	Q	21	9.6
Fuel Oil	559	554	134	98	479	11	25	Q	15.4
District Heat	95	95	17	6	3	94	Q	Q	22.3
District Chilled Water	28	28	5	3	Q	24	Q	Q	31.5
Propane	337	330	95	19	50	Q	255	Q	21.3
Any Other	163	161	48	37	26	Q	Q	102	20.5
Energy End Uses (more than one may apply)									
Heated Buildings	4,178	4,178	1,513	2,405	479	94	255	102	7.5
Air-Conditioned Buildings	3,502	3,439	1,364	2,043	312	80	169	28	8.0
Buildings with Water Heating	3,502	3,436	1,269	2,088	364	80	164	48	7.9
Buildings with Cooking	734	715	272	444	83	18	32	Q	11.2
Buildings with Manufacturing	121	117	46	77	12	5	Q	Q	25.4

See footnotes at end of table.

Table A36. Space-Heating Energy Sources, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	All Heated Buildings	Space-Heating Energy Source Used (more than one may apply)						RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane	Wood	
RSE Column Factor:	0.5	0.5	0.8	0.7	1.3	1.6	1.8	2.1	
Climate Zone: 45-Year Average									
Fewer than 2,000 CDD and --									
More than 7,000 HDD	399	344	68	216	74	10	23	Q	24.7
5,500-7,000 HDD	1,134	1,018	221	725	160	28	50	Q	18.3
4,000-5,499 HDD	1,077	959	341	440	187	27	81	39	23.2
Fewer than 4,000 HDD	1,101	955	394	559	Q	13	78	Q	23.7
More than 2,000 CDD and --									
Fewer than 4,000 HDD	1,095	903	490	465	17	15	23	Q	21.6
Predominant Exterior Wall Materials									
Masonry	3,115	2,850	998	1,755	319	75	103	39	8.4
Siding or Shingles	764	635	235	292	103	Q	80	Q	14.2
Metal Panels	745	533	207	274	43	6	68	Q	15.3
Concrete Panels	87	76	41	38	Q	7	Q	Q	22.1
Window Glass	46	41	19	22	Q	1	Q	Q	33.6
Other	47	42	13	24	Q	Q	Q	Q	44.2
Predominant Roof Materials									
Built-Up	1,642	1,489	566	931	139	39	27	Q	9.2
Shingles (Not Wood)	1,381	1,246	429	697	173	10	107	34	11.4
Metal Surfacing	1,037	763	292	376	77	10	101	39	13.6
Synthetic or Rubber	386	368	111	243	51	14	Q	Q	13.8
Slate or Tile	155	140	49	69	22	13	Q	Q	21.3
Concrete	37	22	10	12	Q	Q	Q	Q	42.0
Other	167	150	55	78	Q	Q	Q	Q	25.6
Percent Window Glass									
25 or Less	4,193	3,597	1,304	2,044	409	75	239	97	8.0
26 to 50	490	464	157	298	54	15	Q	Q	11.4
51 to 75	94	89	40	53	12	3	Q	Q	24.9
76 to 100	29	27	13	10	Q	1	Q	Q	35.1
Workers (main shift)									
Less than 5	2,718	2,154	728	1,159	273	22	180	83	10.3
5 to 9	895	861	318	511	88	14	48	Q	11.0
10 to 19	561	540	212	335	56	21	16	Q	12.7
20 to 49	405	401	161	264	34	16	Q	Q	11.7
50 to 99	130	128	53	76	15	10	Q	Q	14.8
100 to 249	64	64	27	43	7	4	Q	Q	15.0
250 or More	31	30	15	16	5	7	Q	Q	16.8
Weekly Operating Hours									
39 or Fewer	1,039	725	214	376	112	10	87	Q	14.6
40 to 48	1,278	1,186	447	706	123	34	45	32	10.7
49 to 60	1,004	920	318	551	116	16	58	Q	11.0
61 to 84	645	603	201	369	69	9	30	Q	10.1
85 to 167	478	436	172	255	34	7	Q	Q	15.5
Open Continuously	362	307	161	148	24	19	Q	Q	14.6
Primary Space-Heating Energy Source									
Electricity	1,107	1,107	1,107	100	23	Q	Q	Q	14.2
Natural Gas	2,276	2,276	271	2,276	48	2	Q	Q	12.4
Fuel Oil	394	394	66	18	394	Q	Q	Q	21.0
District Heat	91	91	16	3	Q	91	Q	Q	22.8
Propane	217	217	31	Q	Q	Q	217	Q	25.8
Wood	68	68	Q	Q	Q	Q	Q	68	27.2
Any Other	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

Table A36. Space-Heating Energy Sources, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	All Heated Buildings	Space-Heating Energy Source Used (more than one may apply)						RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane	Wood	
RSE Column Factor:	0.5	0.5	0.8	0.7	1.3	1.6	1.8	2.1	
Cooling Energy Sources (more than one may apply)									
Electricity	3,404	3,342	1,354	1,966	311	65	168	28	8.2
Natural Gas	106	106	20	104	Q	Q	Q	Q	19.3
District Chilled Water	28	28	5	3	Q	24	Q	Q	31.5
Water-Heating Energy Sources (more than one may apply)									
Electricity	1,696	1,660	902	689	197	29	106	31	9.1
Natural Gas	1,647	1,621	363	1,442	51	18	Q	Q	11.9
Fuel Oil	126	124	14	11	118	Q	Q	Q	30.2
District Heat	38	38	3	4	Q	37	Q	Q	27.0
Propane	80	76	20	Q	Q	Q	55	Q	32.9
Cooking Energy Sources (more than one may apply)									
Electricity	356	344	174	168	50	10	16	Q	14.9
Natural Gas	431	425	112	356	25	11	Q	Q	14.5
Propane	70	66	32	Q	28	Q	Q	Q	28.0
Percent of Floorspace Heated									
Not Heated	653	25	Q	Q	Q	Q	Q	Q	26.8
1 to 50	688	688	283	353	73	4	51	36	13.3
51 to 99	618	618	224	392	70	9	34	Q	12.6
100	2,846	2,846	999	1,654	330	80	163	49	8.4
Heating Equipment (more than one may apply)									
Heat Pumps	449	449	444	98	17	8	18	Q	17.5
Furnaces	1,692	1,692	403	1,218	251	Q	108	Q	9.2
Individual Space Heaters	1,464	1,464	668	819	151	14	162	81	10.6
District Heat	93	93	16	5	3	93	Q	Q	22.3
Boilers	624	624	116	419	199	Q	16	Q	10.8
Packaged Heating Units	870	870	407	535	13	2	Q	Q	16.9
Other	42	42	19	22	Q	Q	Q	Q	43.3
Heating Distribution Equipment (more than one may apply)									
Radiators or Baseboards	473	473	73	273	158	47	Q	Q	11.6
Ducts for Heating	2,955	2,955	1,139	1,806	297	50	138	23	8.1
Heating Only	577	577	95	360	173	5	41	Q	14.2
Heating and Cooling	2,378	2,378	1,044	1,446	125	45	98	Q	8.0
Variable Air-Volume System	210	210	78	144	17	13	Q	Q	14.6
Fan Coil Units for Heating	99	99	30	61	21	16	Q	Q	18.1
Heating Only	78	78	27	48	16	11	Q	Q	21.4
Heating and Cooling	21	21	2	13	5	5	Q	Q	31.3
Individual Space Heaters	1,464	1,464	668	819	151	14	162	81	10.6
Other	181	181	53	100	30	Q	Q	Q	19.4

NF = No applicable RSE row factor.

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A37. Space-Heating Energy Sources, Floorspace, 1992
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Heated Buildings	Space-Heating Energy Source Used (more than one may apply)						RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane	Wood	
RSE Column Factor:	0.5	0.6	0.9	0.7	1.2	1.4	1.8	1.8	
All Buildings	67,876	61,996	25,636	38,524	7,334	5,242	1,568	504	7.6
Building Floorspace (square feet)									
1,001 to 5,000	7,327	6,210	2,162	3,414	748	56	479	173	10.6
5,001 to 10,000	7,199	6,533	2,427	3,893	872	73	287	182	11.1
10,001 to 25,000	10,375	9,424	3,648	6,130	770	443	270	Q	11.1
25,001 to 50,000	10,069	9,132	3,599	5,648	1,100	516	Q	Q	13.3
50,001 to 100,000	8,062	7,622	2,825	5,033	904	638	Q	Q	12.7
100,001 to 200,000	9,678	8,730	3,260	6,212	760	780	Q	Q	14.3
200,001 to 500,000	7,889	7,470	3,198	4,544	1,414	1,521	Q	Q	18.3
Over 500,000	7,278	6,876	4,517	3,650	765	1,215	Q	Q	29.3
Principal Building Activity									
Education	8,470	8,379	2,159	5,957	1,548	641	Q	Q	13.7
Food Sales	757	723	285	448	Q	Q	Q	Q	28.7
Food Service	1,491	1,435	407	855	Q	Q	Q	Q	18.9
Health Care	1,763	1,746	667	1,236	584	403	Q	Q	19.0
Lodging	2,891	2,870	1,516	1,298	272	580	Q	Q	23.6
Mercantile and Service	12,402	11,835	5,122	8,301	1,128	148	530	196	15.0
Office	12,319	12,255	5,445	6,528	1,345	1,706	Q	Q	12.0
Parking Garage	1,652	1,165	730	Q	Q	Q	Q	Q	50.4
Public Assembly	4,556	4,470	2,267	2,271	519	348	Q	Q	31.1
Public Order and Safety	820	820	184	480	Q	Q	Q	Q	36.8
Religious Worship	3,747	3,737	1,361	2,672	527	Q	154	Q	19.6
Warehouse and Storage	11,484	8,800	4,304	5,920	683	Q	297	Q	16.8
Other	1,130	1,025	267	633	Q	326	Q	Q	26.7
Vacant	4,396	2,738	924	1,594	Q	410	Q	Q	26.8
Year Constructed									
1899 or Before	1,721	1,637	419	1,161	283	91	Q	Q	24.0
1900 to 1919	3,608	3,329	846	2,345	744	269	Q	Q	25.7
1920 to 1945	8,712	7,717	2,197	4,964	1,322	1,128	151	199	18.0
1946 to 1959	10,421	9,371	3,116	6,509	1,201	545	219	Q	13.3
1960 to 1969	12,612	11,548	3,880	7,875	1,505	1,363	273	Q	16.2
1970 to 1979	14,014	12,814	6,191	7,673	1,495	972	351	Q	12.0
1980 to 1989	14,287	13,276	7,958	6,671	660	673	451	Q	15.8
1990 to 1992	2,502	2,303	1,030	1,325	124	202	Q	Q	21.2
Census Region									
Northeast	13,400	12,858	4,505	6,871	4,228	1,556	329	Q	14.5
Midwest	17,280	16,303	4,673	12,305	1,226	1,869	355	140	13.7
South	24,577	21,659	11,185	11,604	1,628	941	791	168	12.5
West	12,619	11,176	5,273	7,744	Q	875	Q	Q	12.5
Energy Sources (more than one may apply)									
Electricity	66,549	61,971	25,636	38,524	7,334	5,228	1,561	494	7.6
Natural Gas	45,097	44,624	13,927	38,524	3,883	2,724	Q	167	8.9
Fuel Oil	13,218	12,933	4,872	5,966	7,334	1,241	237	Q	11.6
District Heat	5,339	5,324	985	627	447	5,242	Q	Q	19.4
District Chilled Water	2,066	2,063	476	338	Q	1,702	Q	Q	27.5
Propane	3,393	3,340	1,550	742	935	Q	1,568	Q	18.6
Any Other	1,551	1,522	753	649	178	Q	Q	504	27.8
Energy End Uses (more than one may apply)									
Heated Buildings	61,996	61,996	25,636	38,524	7,334	5,242	1,568	504	7.7
Air-Conditioned Buildings	57,041	56,073	24,123	35,315	6,307	4,711	1,201	196	8.4
Buildings with Water Heating	58,479	57,708	23,996	36,677	6,796	5,081	1,146	308	8.0
Buildings with Cooking	23,065	22,736	10,147	14,625	3,484	2,198	316	Q	12.0
Buildings with Manufacturing	3,174	3,121	1,178	2,214	505	415	Q	Q	25.5

See footnotes at end of table.

Table A37. Space-Heating Energy Sources, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Heated Buildings	Space-Heating Energy Source Used (more than one may apply)						RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane	Wood	
RSE Column Factor:	0.5	0.6	0.9	0.7	1.2	1.4	1.8	1.8	
Climate Zone: 45-Year Average									
Fewer than 2,000 CDD and --									
More than 7,000 HDD	5,623	5,218	1,268	3,360	1,284	513	277	Q	23.1
5,500-7,000 HDD	18,024	17,196	5,460	12,269	2,322	1,903	273	Q	14.9
4,000-5,499 HDD	16,162	14,966	6,098	8,539	2,827	1,706	428	139	15.8
Fewer than 4,000 HDD	15,251	13,537	5,940	9,380	738	560	378	Q	24.1
More than 2,000 CDD and --									
Fewer than 4,000 HDD	12,816	11,079	6,871	4,975	164	560	212	Q	21.7
Predominant Exterior Wall Materials									
Masonry	48,585	45,520	18,048	29,089	5,837	3,687	674	274	8.9
Siding or Shingles	3,873	3,303	1,366	1,775	534	Q	332	Q	14.7
Metal Panels	7,392	5,682	2,703	3,238	481	331	516	Q	18.2
Concrete Panels	4,961	4,663	2,212	2,969	Q	699	Q	Q	24.8
Window Glass	2,028	1,839	979	825	Q	Q	Q	Q	26.2
Other	1,037	988	328	628	Q	Q	Q	Q	40.3
Predominant Roof Materials									
Built-Up	30,257	28,271	12,420	17,907	2,834	2,346	236	Q	10.9
Shingles (Not Wood)	10,570	9,764	3,227	5,906	1,422	459	393	202	13.9
Metal Surfacing	9,019	7,121	3,116	4,108	509	306	708	148	14.9
Synthetic or Rubber	11,702	11,541	4,365	7,778	1,924	1,470	Q	Q	13.9
Slate or Tile	1,998	1,863	546	1,027	300	400	Q	Q	24.7
Concrete	2,544	1,741	1,157	808	Q	Q	Q	Q	46.2
Other	1,786	1,695	805	989	Q	Q	Q	Q	25.6
Percent Window Glass									
25 or Less	51,356	45,868	18,426	28,689	5,262	3,058	1,436	474	8.7
26 to 50	11,815	11,493	5,047	7,455	1,621	1,352	Q	Q	12.7
51 to 75	3,206	3,185	1,580	1,867	269	473	Q	Q	19.4
76 to 100	1,499	1,450	583	513	Q	Q	Q	Q	30.1
Workers (main shift)									
Less than 5	17,944	13,604	5,498	7,098	1,549	410	697	328	15.9
5 to 9	7,524	7,075	2,930	4,117	706	314	365	Q	13.3
10 to 19	8,077	7,528	2,907	4,826	696	487	178	Q	13.8
20 to 49	10,556	10,440	3,833	7,502	741	503	Q	Q	11.8
50 to 99	7,763	7,652	3,017	5,274	826	785	Q	Q	16.5
100 to 249	7,378	7,323	3,188	5,101	1,106	674	Q	Q	18.9
250 or More	8,633	8,374	4,263	4,607	1,710	2,070	Q	Q	16.8
Weekly Operating Hours									
39 or Fewer	8,246	6,000	1,641	3,482	1,069	347	341	Q	16.3
40 to 48	14,998	13,745	5,464	8,680	1,492	792	217	133	11.4
49 to 60	14,046	13,251	5,180	8,626	1,310	1,051	460	Q	11.4
61 to 84	12,062	11,529	5,114	7,746	893	695	259	Q	14.6
85 to 167	8,467	8,141	3,476	5,509	1,162	504	Q	Q	18.7
Open Continuously	10,057	9,329	4,761	4,481	1,409	1,853	Q	Q	19.7
Primary Space-Heating Energy Source									
Electricity	15,502	15,502	15,502	2,202	330	Q	Q	Q	18.0
Natural Gas	35,161	35,161	7,660	35,161	2,225	Q	Q	Q	9.8
Fuel Oil	4,415	4,415	839	450	4,415	Q	Q	Q	20.7
District Heat	5,014	5,014	895	393	Q	5,014	Q	Q	20.2
Propane	1,101	1,101	279	Q	Q	Q	1,101	Q	25.2
Wood	257	257	Q	Q	Q	Q	Q	257	22.5
Any Other	546	546	Q	Q	Q	Q	Q	Q	82.1

See footnotes at end of table.

Table A37. Space-Heating Energy Sources, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Heated Buildings	Space-Heating Energy Source Used (more than one may apply)						RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane	Wood	
RSE Column Factor:	0.5	0.6	0.9	0.7	1.2	1.4	1.8	1.8	
Cooling Energy Sources (more than one may apply)									
Electricity	54,628	53,663	23,798	34,303	5,981	3,409	1,171	196	8.4
Natural Gas	1,906	1,906	430	1,816	Q	Q	Q	Q	25.2
District Chilled Water	2,066	2,063	476	338	Q	1,702	Q	Q	27.5
Water-Heating Energy Sources (more than one may apply)									
Electricity	25,482	24,878	15,574	11,961	2,363	1,070	739	159	11.7
Natural Gas	29,962	29,802	8,643	26,322	2,581	1,109	Q	Q	10.6
Fuel Oil	2,470	2,464	471	462	2,402	Q	Q	Q	28.2
District Heat	3,308	3,308	581	432	Q	3,240	Q	Q	22.1
Propane	659	648	255	Q	Q	Q	346	Q	32.5
Cooking Energy Sources (more than one may apply)									
Electricity	12,183	12,124	6,707	6,711	1,668	1,336	223	Q	16.9
Natural Gas	15,233	14,987	5,687	11,888	2,007	1,199	Q	Q	13.1
Propane	1,039	1,000	598	Q	478	Q	Q	Q	33.8
Percent of Floorspace Heated									
Not Heated	6,211	330	Q	Q	Q	Q	Q	Q	34.3
1 to 50	11,195	11,195	5,932	6,524	702	385	393	211	17.2
51 to 99	10,211	10,211	4,569	6,596	1,444	815	285	Q	13.8
100	40,260	40,260	14,983	25,235	5,148	4,024	858	188	9.2
Heating Equipment (more than one may apply)									
Heat Pumps	8,269	8,269	8,243	3,651	602	443	242	Q	15.2
Furnaces	16,909	16,909	6,018	13,797	1,746	Q	534	Q	10.5
Individual Space Heaters	22,380	22,380	12,980	13,980	2,099	1,139	984	380	9.9
District Heat	5,225	5,225	970	553	413	5,225	Q	Q	19.8
Boilers	20,664	20,664	6,583	15,967	5,260	Q	219	Q	12.3
Packaged Heating Units	16,000	16,000	8,375	11,524	627	279	Q	Q	13.3
Other	903	903	491	549	Q	Q	Q	Q	33.0
Heating Distribution Equipment (more than one may apply)									
Radiators or Baseboards	13,263	13,263	2,909	8,313	3,702	2,695	Q	Q	11.4
Ducts for Heating	45,422	45,422	20,063	30,075	4,629	3,141	1,001	151	8.9
Heating Only	5,950	5,950	1,969	4,421	1,177	207	211	Q	20.0
Heating and Cooling	39,472	39,472	18,094	25,654	3,453	2,935	790	Q	8.8
Variable Air-Volume System	11,528	11,528	5,519	7,440	1,480	1,721	Q	Q	18.4
Fan Coil Units for Heating	5,474	5,474	1,874	3,677	1,243	1,444	Q	Q	16.8
Heating Only	3,569	3,569	1,480	2,475	667	693	Q	Q	22.3
Heating and Cooling	1,906	1,906	393	1,203	576	751	Q	Q	22.0
Individual Space Heaters	22,380	22,380	12,980	13,980	2,099	1,139	984	380	9.9
Other	3,310	3,310	1,434	2,511	413	245	Q	Q	23.6

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A38. Primary Space-Heating Energy Sources, Number of Buildings, 1992
(Thousand)

Building Characteristics	All Buildings	All Heated Buildings	Primary Space-Heating Energy Sources Used						RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane	Wood	
RSE Column Factor:	0.5	0.5	0.8	0.6	1.4	1.5	1.8	2.2	
All Buildings	4,806	4,178	1,107	2,276	394	91	217	68	8.2
Building Floorspace (square feet)									
1,001 to 5,000	2,681	2,247	618	1,157	220	18	168	52	11.0
5,001 to 10,000	975	883	231	492	106	11	31	Q	11.7
10,001 to 25,000	647	585	148	354	34	27	Q	Q	11.9
25,001 to 50,000	280	255	62	150	22	15	Q	Q	14.3
50,001 to 100,000	116	110	26	65	8	9	Q	Q	14.7
100,001 to 200,000	71	64	13	39	3	6	Q	Q	17.3
200,001 to 500,000	26	24	5	14	1	4	Q	Q	21.4
Over 500,000	9	9	Q	3	Q	1	Q	Q	39.2
Principal Building Activity									
Education	301	295	79	170	20	20	Q	Q	16.3
Food Sales	130	120	53	57	Q	Q	Q	Q	27.1
Food Service	260	249	53	159	Q	Q	Q	Q	17.7
Health Care	63	61	20	35	Q	2	Q	Q	29.9
Lodging	154	150	77	49	Q	9	Q	Q	22.0
Mercantile and Service	1,272	1,214	245	681	154	8	75	38	12.2
Office	749	745	243	409	61	23	Q	Q	12.1
Parking Garage	24	17	6	Q	Q	Q	Q	Q	53.9
Public Assembly	278	257	59	144	21	10	Q	Q	17.0
Public Order and Safety	60	60	Q	36	Q	Q	Q	Q	36.3
Religious Worship	366	364	74	189	51	Q	44	Q	19.2
Warehouse and Storage	761	445	120	232	32	Q	32	Q	15.2
Other	69	48	17	19	Q	4	Q	Q	33.3
Vacant	319	154	49	86	Q	2	Q	Q	19.0
Year Constructed									
1899 or Before	169	158	26	97	25	4	Q	Q	26.4
1900 to 1919	255	232	18	157	41	10	Q	Q	21.1
1920 to 1945	724	623	82	391	81	12	Q	Q	14.2
1946 to 1959	880	760	150	445	88	22	46	Q	13.4
1960 to 1969	783	687	167	396	58	22	30	Q	12.8
1970 to 1979	982	850	301	427	57	8	43	Q	12.9
1980 to 1989	884	761	322	321	42	11	46	Q	12.8
1990 to 1992	128	107	41	43	Q	Q	Q	Q	31.2
Census Region									
Northeast	771	694	68	322	235	22	31	Q	15.5
Midwest	1,202	1,047	124	776	41	23	60	Q	16.9
South	1,963	1,687	655	737	115	27	107	32	13.2
West	870	750	260	440	Q	20	Q	Q	18.4
Energy Sources (more than one may apply)									
Electricity	4,616	4,173	1,107	2,276	394	91	217	64	8.2
Natural Gas	2,665	2,627	270	2,276	37	32	Q	Q	10.3
Fuel Oil	559	554	51	75	394	11	Q	Q	17.1
District Heat	95	95	Q	3	Q	91	Q	Q	22.1
District Chilled Water	28	28	2	Q	Q	23	Q	Q	31.6
Propane	337	330	52	17	38	Q	217	Q	24.0
Any Other	163	161	Q	24	Q	Q	Q	68	22.0
Energy End Uses (more than one may apply)									
Heated Buildings	4,178	4,178	1,107	2,276	394	91	217	68	8.2
Air-Conditioned Buildings	3,502	3,439	1,005	1,933	247	78	144	Q	8.3
Buildings with Water Heating	3,502	3,436	921	1,972	292	78	131	Q	8.4
Buildings with Cooking	734	715	192	410	65	17	25	Q	12.2
Buildings with Manufacturing	121	117	28	69	9	5	Q	Q	28.4

See footnotes at end of table.

Table A38. Primary Space-Heating Energy Sources, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	All Heated Buildings	Primary Space-Heating Energy Sources Used						RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane	Wood	
RSE Column Factor:	0.5	0.5	0.8	0.6	1.4	1.5	1.8	2.2	
Climate Zone: 45-Year Average									
Fewer than 2,000 CDD and --									
More than 7,000 HDD	399	344	35	206	64	10	Q	Q	26.7
5,500-7,000 HDD	1,134	1,018	104	697	129	27	39	Q	19.9
4,000-5,499 HDD	1,077	959	238	414	167	26	67	Q	25.3
Fewer than 4,000 HDD	1,101	955	304	524	Q	13	75	Q	24.1
More than 2,000 CDD and --									
Fewer than 4,000 HDD	1,095	903	426	434	Q	15	Q	Q	20.6
Predominant Exterior Wall Materials									
Masonry	3,115	2,850	721	1,667	263	74	87	Q	8.6
Siding or Shingles	764	635	172	273	90	Q	68	Q	14.4
Metal Panels	745	533	155	258	29	6	59	Q	17.0
Concrete Panels	87	76	35	34	Q	6	Q	Q	24.4
Window Glass	46	41	16	19	Q	1	Q	Q	36.0
Other	47	42	8	24	Q	Q	Q	Q	44.8
Predominant Roof Materials									
Built-Up	1,642	1,489	427	873	109	39	22	Q	10.4
Shingles (Not Wood)	1,381	1,246	304	662	155	10	89	Q	11.8
Metal Surfacing	1,037	763	215	358	57	10	89	Q	15.4
Synthetic or Rubber	386	368	64	232	43	13	Q	Q	15.5
Slate or Tile	155	140	39	65	19	13	Q	Q	22.2
Concrete	37	22	8	11	Q	Q	Q	Q	43.8
Other	167	150	50	75	Q	Q	Q	Q	26.5
Percent Window Glass									
25 or Less	4,193	3,597	957	1,937	338	73	204	65	8.7
26 to 50	490	464	110	282	42	14	Q	Q	12.5
51 to 75	94	89	27	48	10	Q	Q	Q	26.3
76 to 100	29	27	12	9	Q	1	Q	Q	36.9
Workers (main shift)									
Less than 5	2,718	2,154	557	1,111	231	22	158	59	11.1
5 to 9	895	861	233	489	74	14	44	Q	11.6
10 to 19	561	540	152	309	44	21	Q	Q	12.8
20 to 49	405	401	105	246	28	16	Q	Q	12.7
50 to 99	130	128	36	67	11	9	Q	Q	16.5
100 to 249	64	64	17	39	4	4	Q	Q	17.6
250 or More	31	30	8	14	2	6	Q	Q	20.7
Weekly Operating Hours									
39 or Fewer	1,039	725	144	366	103	10	81	Q	15.1
40 to 48	1,278	1,186	318	668	103	33	35	Q	11.8
49 to 60	1,004	920	233	514	88	15	44	Q	12.0
61 to 84	645	603	149	348	60	8	28	Q	10.9
85 to 167	478	436	128	245	29	7	Q	Q	16.6
Open Continuously	362	307	134	134	12	18	Q	Q	16.8
Replacement Energy Source for Primary Heating									
Electricity Only	350	350	Q	280	Q	Q	33	Q	17.3
Natural Gas Only	213	213	125	Q	47	6	Q	Q	19.7
Fuel Oil Only	161	161	25	108	Q	6	Q	Q	23.1
Propane Only	212	212	43	121	37	Q	Q	Q	23.7
Any Other Single Energy Source									
Source	57	57	Q	25	Q	Q	Q	Q	34.8
More than One Energy Source	93	93	Q	58	Q	Q	Q	Q	34.8
Percent of Floorspace Heated									
Not Heated	653	25	Q	Q	Q	Q	Q	Q	29.1
1 to 50	688	688	220	332	62	3	40	Q	15.3
51 to 99	618	618	160	361	53	9	26	Q	13.7
100	2,846	2,846	720	1,576	276	79	146	Q	8.6

See footnotes at end of table.

Table A38. Primary Space-Heating Energy Sources, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	All Heated Buildings	Primary Space-Heating Energy Sources Used						RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane	Wood	
RSE Column Factor:	0.5	0.5	0.8	0.6	1.4	1.5	1.8	2.2	
Heating Equipment (more than one may apply)									
Heat Pumps	449	449	362	60	10	7	Q	Q	19.4
Furnaces	1,692	1,692	205	1,162	209	Q	92	Q	9.9
Individual Space Heaters	1,464	1,464	384	753	114	14	134	53	11.3
District Heat	93	93	Q	2	Q	91	Q	Q	22.4
Boilers	624	624	33	393	170	Q	Q	Q	12.5
Packaged Heating Units	870	870	331	507	Q	2	Q	Q	16.4
Other	42	42	18	19	Q	Q	Q	Q	46.4
Heating Distribution Equipment (more than one may apply)									
Radiators or Baseboards	473	473	12	254	136	46	Q	Q	14.5
Ducts for Heating	2,955	2,955	831	1,707	241	49	111	Q	8.3
Heating Only	577	577	33	340	157	5	29	Q	16.6
Heating and Cooling	2,378	2,378	798	1,367	84	44	82	Q	8.8
Variable Air-Volume System	210	210	49	136	8	13	Q	Q	16.6
Fan Coil Units for Heating	99	99	13	56	14	16	Q	Q	21.4
Heating Only	78	78	12	44	11	11	Q	Q	24.7
Heating and Cooling	21	21	Q	12	Q	5	Q	Q	32.0
Individual Space Heaters	1,464	1,464	384	753	114	14	134	53	11.3
Other	181	181	34	93	27	Q	Q	Q	21.1

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A39. Primary Space-Heating Energy Sources, Floorspace, 1992
(Million Square Feet)

Building Characteristics	Total Floorspace All Buildings	Total Floorspace of All Heated Buildings	Primary Space-Heating Energy Sources Used						RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane	Wood	
RSE Column Factor:	0.5	0.5	1.0	0.7	1.3	1.4	1.9	1.7	
All Buildings	67,876	61,996	15,502	35,161	4,415	5,014	1,101	257	8.7
Building Floorspace (square feet)									
1,001 to 5,000	7,327	6,210	1,684	3,256	629	56	427	126	11.2
5,001 to 10,000	7,199	6,533	1,719	3,648	779	73	232	Q	11.3
10,001 to 25,000	10,375	9,424	2,411	5,763	519	433	Q	Q	11.2
25,001 to 50,000	10,069	9,132	2,245	5,377	791	494	Q	Q	14.1
50,001 to 100,000	8,062	7,622	1,788	4,547	569	571	Q	Q	14.0
100,001 to 200,000	9,678	8,730	1,803	5,420	472	780	Q	Q	16.2
200,001 to 500,000	7,889	7,470	1,428	4,225	387	1,430	Q	Q	21.2
Over 500,000	7,278	6,876	2,424	2,925	Q	1,177	Q	Q	34.7
Principal Building Activity									
Education	8,470	8,379	998	5,642	996	637	Q	Q	13.8
Food Sales	757	723	282	401	Q	Q	Q	Q	29.7
Food Service	1,491	1,435	307	850	Q	Q	Q	Q	20.8
Health Care	1,763	1,746	198	1,030	Q	385	Q	Q	22.9
Lodging	2,891	2,870	1,125	1,004	Q	575	Q	Q	23.1
Mercantile and Service	12,402	11,835	2,858	7,272	833	141	364	144	15.5
Office	12,319	12,255	3,746	5,924	998	1,553	Q	Q	13.2
Parking Garage	1,652	1,165	706	Q	Q	Q	Q	Q	51.8
Public Assembly	4,556	4,470	Q	2,028	Q	308	Q	Q	29.7
Public Order and Safety	820	820	Q	468	Q	Q	Q	Q	45.4
Religious Worship	3,747	3,737	602	2,612	324	Q	132	Q	20.0
Warehouse and Storage	11,484	8,800	2,121	5,612	366	Q	226	Q	17.2
Other	1,130	1,025	105	535	Q	326	Q	Q	26.0
Vacant	4,396	2,738	683	1,455	Q	410	Q	Q	28.3
Year Constructed									
1899 or Before	1,721	1,637	246	1,074	186	91	Q	Q	26.6
1900 to 1919	3,608	3,329	250	2,292	474	264	Q	Q	27.2
1920 to 1945	8,712	7,717	790	4,516	895	1,053	Q	Q	18.5
1946 to 1959	10,421	9,371	1,493	6,115	996	537	171	Q	14.6
1960 to 1969	12,612	11,548	1,893	7,241	739	1,339	115	Q	15.4
1970 to 1979	14,014	12,814	3,800	7,032	711	911	273	Q	13.0
1980 to 1989	14,287	13,276	6,230	5,665	350	656	304	Q	17.2
1990 to 1992	2,502	2,303	800	1,225	Q	163	Q	Q	20.3
Census Region									
Northeast	13,400	12,858	1,768	6,049	3,202	1,467	158	Q	15.6
Midwest	17,280	16,303	2,169	11,468	427	1,846	287	Q	14.3
South	24,577	21,659	8,529	10,660	738	903	571	122	13.7
West	12,619	11,176	3,036	6,984	Q	798	Q	Q	13.8
Energy Sources (more than one may apply)									
Electricity	66,549	61,971	15,502	35,161	4,415	4,999	1,101	246	8.7
Natural Gas	45,097	44,624	5,272	35,161	1,271	2,547	Q	Q	9.0
Fuel Oil	13,218	12,933	2,482	4,695	4,415	1,097	Q	Q	12.3
District Heat	5,339	5,324	Q	233	Q	5,014	Q	Q	22.1
District Chilled Water	2,066	2,063	136	Q	Q	1,590	Q	Q	26.1
Propane	3,393	3,340	791	675	664	Q	1,101	Q	22.2
Any Other	1,551	1,522	Q	302	Q	Q	Q	257	27.5
Energy End Uses (more than one may apply)									
Heated Buildings	61,996	61,996	15,502	35,161	4,415	5,014	1,101	257	8.8
Air-Conditioned Buildings	57,041	56,073	14,511	32,138	3,539	4,484	816	Q	9.0
Buildings with Water Heating	58,479	57,708	14,200	33,406	3,911	4,856	702	Q	8.8
Buildings with Cooking	23,065	22,736	5,738	12,913	1,704	2,040	166	Q	13.5
Buildings with Manufacturing	3,174	3,121	425	2,002	198	415	Q	Q	26.4

See footnotes at end of table.

Table A39. Primary Space-Heating Energy Sources, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace All Buildings	Total Floorspace of All Heated Buildings	Primary Space-Heating Energy Sources Used						RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane	Wood	
RSE Column Factor:	0.5	0.5	1.0	0.7	1.3	1.4	1.9	1.7	
Climate Zone: 45-Year Average									
Fewer than 2,000 CDD and --									
More than 7,000 HDD	5,623	5,218	641	3,010	862	496	Q	Q	25.7
5,500-7,000 HDD	18,024	17,196	2,305	11,371	1,360	1,842	184	Q	16.5
4,000-5,499 HDD	16,162	14,966	2,955	7,599	1,984	1,572	319	Q	17.4
Fewer than 4,000 HDD	15,251	13,537	3,656	8,790	Q	550	Q	Q	21.5
More than 2,000 CDD and --									
Fewer than 4,000 HDD	12,816	11,079	5,945	4,391	Q	554	Q	Q	20.8
Predominant Exterior Wall Materials									
Masonry	48,585	45,520	10,902	26,557	3,505	3,509	431	Q	9.8
Siding or Shingles	3,873	3,303	822	1,588	475	Q	283	Q	15.0
Metal Panels	7,392	5,682	1,657	2,930	271	330	374	Q	17.7
Concrete Panels	4,961	4,663	1,219	2,749	Q	669	Q	Q	24.3
Window Glass	2,028	1,839	636	749	Q	Q	Q	Q	27.8
Other	1,037	988	266	589	Q	Q	Q	Q	43.2
Predominant Roof Materials									
Built-Up	30,257	28,271	7,599	16,326	1,396	2,307	170	Q	12.3
Shingles (Not Wood)	10,570	9,764	2,100	5,601	1,181	453	305	Q	14.7
Metal Surfacing	9,019	7,121	2,169	3,618	352	305	535	Q	15.6
Synthetic or Rubber	11,702	11,541	1,837	7,176	1,143	1,290	Q	Q	15.0
Slate or Tile	1,998	1,863	271	999	175	400	Q	Q	25.2
Concrete	2,544	1,741	931	Q	Q	Q	Q	Q	44.8
Other	1,786	1,695	595	906	Q	Q	Q	Q	26.3
Percent Window Glass									
25 or Less	51,356	45,868	11,594	26,374	3,239	2,893	1,045	232	10.1
26 to 50	11,815	11,493	2,513	6,695	853	1,309	Q	Q	13.5
51 to 75	3,206	3,185	837	1,673	202	462	Q	Q	20.6
76 to 100	1,499	1,450	558	419	Q	Q	Q	Q	32.1
Workers (main shift)									
Less than 5	17,944	13,604	4,410	6,727	1,227	409	562	193	17.6
5 to 9	7,524	7,075	1,869	3,950	552	313	344	Q	14.0
10 to 19	8,077	7,528	1,920	4,504	425	478	Q	Q	13.3
20 to 49	10,556	10,440	2,151	7,024	603	503	Q	Q	12.2
50 to 99	7,763	7,652	1,569	4,514	528	719	Q	Q	18.1
100 to 249	7,378	7,323	1,471	4,742	438	672	Q	Q	19.9
250 or More	8,633	8,374	2,113	3,700	642	1,919	Q	Q	19.6
Weekly Operating Hours									
39 or Fewer	8,246	6,000	1,006	3,373	895	347	298	Q	17.2
40 to 48	14,998	13,745	3,426	8,127	1,112	781	151	Q	11.8
49 to 60	14,046	13,251	3,002	8,088	729	952	302	Q	11.6
61 to 84	12,062	11,529	3,065	6,718	628	683	197	Q	15.4
85 to 167	8,467	8,141	1,649	5,039	737	451	Q	Q	18.6
Open Continuously	10,057	9,329	3,354	3,816	314	1,800	Q	Q	22.7
Replacement Energy Source for Primary Heating									
Electricity Only	2,559	2,559	Q	2,099	Q	Q	209	Q	18.1
Natural Gas Only	2,260	2,260	952	Q	702	Q	Q	Q	20.9
Fuel Oil Only	5,451	5,451	193	4,599	Q	524	Q	Q	23.1
Propane Only	2,174	2,174	259	1,477	257	Q	Q	Q	21.6
Any Other Single Energy Source									
Source	477	477	Q	231	Q	Q	Q	Q	52.9
More than One Energy Source	895	895	Q	581	Q	Q	Q	Q	34.8
Percent of Floorspace Heated									
Not Heated	6,211	330	Q	Q	Q	Q	Q	Q	36.8
1 to 50	11,195	11,195	4,044	5,783	495	381	302	Q	18.5
51 to 99	10,211	10,211	2,406	6,064	815	725	160	Q	14.9
100	40,260	40,260	8,980	23,226	3,072	3,890	610	Q	9.9

See footnotes at end of table.

Table A39. Primary Space-Heating Energy Sources, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace All Buildings	Total Floorspace of All Heated Buildings	Primary Space-Heating Energy Sources Used						RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane	Wood	
RSE Column Factor:	0.5	0.5	1.0	0.7	1.3	1.4	1.9	1.7	
Heating Equipment (more than one may apply)									
Heat Pumps	8,269	8,269	4,723	2,541	275	376	Q	Q	16.6
Furnaces	16,909	16,909	2,201	12,649	1,292	Q	406	Q	10.3
Individual Space Heaters	22,380	22,380	6,528	12,523	1,266	1,074	679	188	11.0
District Heat	5,225	5,225	Q	Q	Q	4,996	Q	Q	15.8
Boilers	20,664	20,664	2,371	14,727	3,131	Q	Q	Q	15.3
Packaged Heating Units	16,000	16,000	4,591	10,609	Q	271	Q	Q	12.2
Other	903	903	363	474	Q	Q	Q	Q	36.1
Heating Distribution Equipment (more than one may apply)									
Radiators or Baseboards	13,263	13,263	347	7,640	2,355	2,589	Q	Q	13.7
Ducts for Heating	45,422	45,422	11,596	27,302	2,539	3,042	637	Q	9.2
Heating Only	5,950	5,950	627	3,877	1,041	206	125	Q	21.5
Heating and Cooling	39,472	39,472	10,969	23,425	1,497	2,837	512	Q	9.8
Variable Air-Volume System	11,528	11,528	2,973	6,500	365	1,659	Q	Q	21.8
Fan Coil Units for Heating	5,474	5,474	345	3,385	420	1,311	Q	Q	19.1
Heating Only	3,569	3,569	301	2,307	264	683	Q	Q	23.4
Heating and Cooling	1,906	1,906	Q	1,078	Q	628	Q	Q	24.2
Individual Space Heaters	22,380	22,380	6,528	12,523	1,266	1,074	679	188	11.0
Other	3,310	3,310	572	2,235	218	216	Q	Q	25.8

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A40. Cooling Energy Sources, Number of Buildings and Floorspace, 1992

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	All Cooled Buildings	Cooling Energy Sources (more than one may apply)			All Buildings	All Cooled Buildings	Cooling Energy Sources (more than one may apply)			
			Electricity	Natural Gas	District Chilled Water			Electricity	Natural Gas	District Chilled Water	
RSE Column Factor:	0.5	0.6	0.6	1.9	2.4	0.6	0.6	0.7	2.2	2.1	
All Buildings	4,806	3,502	3,404	106	28	67,876	57,041	54,628	1,906	2,066	6.4
Building Floorspace (square feet)											
1,001 to 5,000	2,681	1,792	1,748	47	Q	7,327	4,994	4,853	146	Q	9.0
5,001 to 10,000	975	758	739	26	Q	7,199	5,601	5,452	194	Q	7.5
10,001 to 25,000	647	519	504	19	8	10,375	8,364	8,132	268	115	10.5
25,001 to 50,000	280	236	225	Q	9	10,069	8,435	8,043	Q	311	12.1
50,001 to 100,000	116	103	100	Q	Q	8,062	7,185	6,970	Q	Q	11.7
100,001 to 200,000	71	59	58	Q	2	9,678	8,072	7,898	Q	252	13.3
200,001 to 500,000	26	24	22	1	2	7,889	7,217	6,536	Q	737	17.4
Over 500,000	9	9	9	Q	1	7,278	7,174	6,744	Q	515	30.9
Principal Building Activity											
Education	301	251	238	10	9	8,470	7,389	6,912	487	253	14.2
Food Sales	130	119	119	Q	Q	757	725	725	Q	Q	24.7
Food Service	260	244	237	Q	Q	1,491	1,449	1,365	Q	Q	14.8
Health Care	63	59	53	Q	Q	1,763	1,747	1,605	Q	227	21.0
Lodging	154	120	117	Q	Q	2,891	2,493	2,310	Q	Q	21.3
Mercantile and Service	1,272	942	920	29	Q	12,402	10,874	10,669	286	Q	11.2
Office	749	731	704	26	8	12,319	12,198	11,576	285	659	10.2
Parking Garage	24	12	12	Q	Q	1,652	922	800	Q	Q	53.3
Public Assembly	278	208	202	Q	Q	4,556	4,077	3,966	Q	Q	23.4
Public Order and Safety	60	47	46	Q	Q	820	741	726	Q	Q	36.5
Religious Worship	366	286	285	Q	Q	3,747	3,121	3,090	Q	Q	19.3
Warehouse and Storage	761	324	318	Q	Q	11,484	7,885	7,783	Q	Q	14.3
Other	69	44	42	Q	Q	1,130	1,040	915	Q	Q	26.4
Vacant	319	114	111	Q	Q	4,396	2,382	2,187	Q	Q	21.4
Year Constructed											
1899 or Before	169	119	118	Q	Q	1,721	1,307	1,289	Q	Q	22.6
1900 to 1919	255	169	164	Q	Q	3,608	2,759	2,691	Q	Q	22.6
1920 to 1945	724	491	481	Q	Q	8,712	6,586	6,308	Q	Q	14.2
1946 to 1959	880	643	625	17	7	10,421	8,260	7,934	327	241	12.4
1960 to 1969	783	563	548	20	5	12,612	10,601	10,231	428	376	12.5
1970 to 1979	982	741	721	23	5	14,014	12,286	11,375	423	632	11.5
1980 to 1989	884	682	662	21	Q	14,287	12,985	12,692	418	243	13.7
1990 to 1992	128	93	86	Q	Q	2,502	2,258	2,109	Q	164	20.0
Census Region											
Northeast	771	521	505	20	2	13,400	11,158	10,729	320	302	12.9
Midwest	1,202	784	751	35	7	17,280	14,383	13,544	512	684	12.7
South	1,963	1,569	1,552	18	10	24,577	21,205	20,609	420	659	11.3
West	870	627	596	34	9	12,619	10,296	9,747	654	421	13.0
Energy Sources (more than one may apply)											
Electricity	4,616	3,502	3,404	106	28	66,549	57,041	54,628	1,906	2,066	6.4
Natural Gas	2,665	2,263	2,176	106	15	45,097	41,423	39,652	1,906	1,109	7.7
Fuel Oil	559	378	375	3	2	13,218	12,081	11,480	439	588	14.3
District Heat	95	82	66	Q	24	5,339	4,786	3,484	Q	1,737	15.9
District Chilled Water	28	28	11	Q	28	2,066	2,066	842	Q	2,066	22.9
Propane	337	230	228	Q	Q	3,393	2,837	2,789	Q	Q	21.7
Any Other	163	71	70	Q	Q	1,551	1,117	1,107	Q	Q	31.3

See footnotes at end of table.

Table A40. Cooling Energy Sources, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	All Cooled Buildings	Cooling Energy Sources (more than one may apply)			All Buildings	All Cooled Buildings	Cooling Energy Sources (more than one may apply)			
			Electricity	Natural Gas	District Chilled Water			Electricity	Natural Gas	District Chilled Water	
RSE Column Factor:	0.5	0.6	0.6	1.9	2.4	0.6	0.6	0.7	2.2	2.1	
Energy End Uses (more than one may apply)											
Heated Buildings	4,178	3,439	3,342	106	28	61,996	56,073	53,663	1,906	2,063	6.5
Air-Conditioned Buildings	3,502	3,502	3,404	106	28	57,041	57,041	54,628	1,906	2,066	6.5
Buildings with Water Heating	3,502	3,016	2,929	100	22	58,479	53,839	51,535	1,886	1,978	6.8
Buildings with Cooking	734	663	644	25	8	23,065	22,003	20,974	912	920	10.8
Buildings with Manufacturing	121	92	89	Q	Q	3,174	2,870	2,808	Q	Q	23.8
Climate Zone: 45-Year Average											
Fewer than 2,000 HDD and -- More than 7,000 HDD	399	229	221	Q	Q	5,623	4,267	3,970	Q	Q	25.6
5,500-7,000 HDD	1,134	766	731	43	5	18,024	14,977	14,369	545	574	14.3
4,000-5,499 HDD	1,077	753	735	20	4	16,162	13,549	12,854	324	526	18.7
Fewer than 4,000 HDD	1,101	838	811	29	10	15,251	12,870	12,441	569	437	19.8
More than 2,000 CDD and -- Fewer than 4,000 HDD	1,095	915	906	Q	9	12,816	11,379	10,994	Q	467	18.0
Predominant Exterior Wall Material											
Masonry	3,115	2,491	2,418	76	25	48,585	42,084	40,311	1,232	1,630	7.2
Siding or Shingles	764	473	462	Q	Q	3,873	2,625	2,552	Q	Q	13.0
Metal Panels	745	394	384	Q	Q	7,392	4,854	4,727	Q	Q	14.5
Concrete Panels	87	71	68	Q	2	4,961	4,563	4,237	Q	221	19.4
Window Glass	46	38	38	Q	Q	2,028	1,978	1,893	Q	Q	28.4
Other	47	35	35	Q	Q	1,037	938	908	Q	Q	38.0
Predominant Roof Material											
Built-Up	1,642	1,319	1,290	39	11	30,257	26,404	25,503	910	969	8.5
Shingles (Not Wood)	1,381	1,025	999	28	Q	10,570	8,606	8,420	293	Q	11.3
Metal Surfacing	1,037	576	559	21	Q	9,019	6,077	5,886	171	Q	13.1
Synthetic or Rubber	386	318	306	11	6	11,702	10,893	10,130	423	626	13.2
Slate or Tile	155	113	107	Q	Q	1,998	1,608	1,470	Q	Q	21.4
Concrete	37	27	23	Q	Q	2,544	1,909	1,727	Q	Q	46.5
Other	167	124	122	Q	Q	1,786	1,544	1,493	Q	Q	23.0
Percent Window Glass											
25 or Less	4,193	2,987	2,904	91	21	51,356	41,691	39,873	1,403	1,317	7.2
26 to 50	490	410	401	10	6	11,815	10,873	10,449	361	503	12.7
51 to 75	94	80	77	Q	Q	3,206	3,031	2,938	Q	Q	19.7
76 to 100	29	25	23	Q	Q	1,499	1,447	1,368	Q	Q	32.1
Workers (main shift)											
Less than 5	2,718	1,623	1,591	34	Q	17,944	10,719	10,315	213	Q	13.4
5 to 9	895	781	753	30	Q	7,524	6,249	6,065	188	Q	8.9
10 to 19	561	502	487	Q	10	8,077	6,954	6,760	Q	193	11.8
20 to 49	405	384	373	17	5	10,556	9,990	9,758	330	191	11.4
50 to 99	130	118	112	Q	3	7,763	7,313	6,855	Q	327	15.4
100 to 249	64	63	60	Q	2	7,378	7,195	6,839	Q	192	15.3
250 or More	31	31	29	1	3	8,633	8,621	8,035	197	868	14.0

See footnotes at end of table.

Table A40. Cooling Energy Sources, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	All Cooled Buildings	Cooling Energy Sources (more than one may apply)			All Buildings	All Cooled Buildings	Cooling Energy Sources (more than one may apply)			
			Electricity	Natural Gas	District Chilled Water			Electricity	Natural Gas	District Chilled Water	
RSE Column Factor:	0.5	0.6	0.6	1.9	2.4	0.6	0.6	0.7	2.2	2.1	
Weekly Operating Hours											
39 or Fewer	1,039	513	505	Q	Q	8,246	4,632	4,401	Q	Q	14.1
40 to 48	1,278	1,007	978	34	8	14,998	12,558	12,148	303	312	9.6
49 to 60	1,004	786	764	20	4	14,046	12,218	11,675	359	357	11.0
61 to 84	645	528	514	20	4	12,062	11,158	10,906	496	178	11.7
85 to 167	478	405	388	19	Q	8,467	7,742	7,292	338	278	14.9
Open Continuously	362	262	255	6	5	10,057	8,733	8,207	372	724	16.0
Primary Space-Heating Energy Source											
Electricity	1,107	1,005	1,000	Q	2	15,502	14,511	14,385	Q	136	13.1
Natural Gas	2,276	1,933	1,859	98	Q	35,161	32,138	31,178	1,687	Q	7.7
Fuel Oil	394	247	246	Q	Q	4,415	3,539	3,465	Q	Q	21.3
District Heat	91	78	63	Q	23	5,014	4,484	3,263	Q	1,590	16.6
Propane	217	144	142	Q	Q	1,101	816	786	Q	Q	32.2
Wood	68	Q	Q	Q	Q	257	Q	Q	Q	Q	35.2
Any Other	Q	Q	Q	Q	Q	546	Q	Q	Q	Q	74.9
Water-Heating Energy Sources (more than one may apply)											
Electricity	1,696	1,479	1,455	32	8	25,482	23,657	23,275	517	342	10.3
Natural Gas	1,647	1,436	1,376	71	8	29,962	27,766	26,681	1,391	494	9.4
Fuel Oil	126	88	88	Q	Q	2,470	2,089	2,015	Q	Q	28.3
District Heat	38	30	22	Q	10	3,308	2,972	2,158	Q	1,108	21.2
Propane	80	57	57	Q	Q	659	563	563	Q	Q	37.3
Cooking Energy Sources (more than one may apply)											
Electricity	356	326	317	9	4	12,183	11,792	11,353	244	546	16.7
Natural Gas	431	392	374	23	6	15,233	14,533	13,760	844	478	11.7
Propane	70	61	60	Q	Q	1,039	944	941	Q	Q	32.9
Percent of Floorspace Cooled											
Not Cooled	1,304	Q	Q	Q	Q	10,835	Q	Q	Q	Q	11.3
1 to 50	1,176	1,176	1,154	31	Q	21,715	21,715	21,068	456	Q	8.9
51 to 99	658	658	643	17	6	13,872	13,872	13,370	380	702	11.6
100	1,668	1,668	1,608	59	20	21,454	21,454	20,191	1,070	988	9.3
Cooling Equipment (more than one may apply)											
Residential-Type Central Air Conditioners	816	816	783	48	Q	9,021	9,021	8,761	465	Q	11.5
Heat Pumps	454	454	449	8	Q	8,406	8,406	8,388	175	Q	15.0
Individual Air Conditioners	1,023	1,023	1,015	16	2	17,979	17,979	17,734	420	225	13.4
District Chilled Water	28	28	11	Q	28	2,066	2,066	842	Q	2,066	22.9
Central Chillers	142	142	137	8	Q	12,991	12,991	12,500	783	Q	15.4
Packaged Air-Conditioning Units	1,459	1,459	1,419	52	3	27,830	27,830	26,928	1,047	628	9.7
Swamp Coolers	179	179	178	Q	Q	2,085	2,085	2,063	Q	Q	32.7
Other	8	8	7	Q	Q	268	268	255	Q	Q	69.3

See footnotes at end of table.

Table A40. Cooling Energy Sources, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	All Cooled Buildings	Cooling Energy Sources (more than one may apply)			All Buildings	All Cooled Buildings	Cooling Energy Sources (more than one may apply)			
			Electricity	Natural Gas	District Chilled Water			Electricity	Natural Gas	District Chilled Water	
RSE Column Factor:	0.5	0.6	0.6	1.9	2.4	0.6	0.6	0.7	2.2	2.1	
Cooling Distribution Equipment (more than one may apply)											
Ducts for Cooling	2,733	2,733	2,638	105	25	47,755	47,755	45,601	1,824	1,785	6.9
Cooling Only	355	355	352	Q	5	8,283	8,283	7,949	Q	389	14.7
Heating and Cooling	2,378	2,378	2,287	101	21	39,472	39,472	37,652	1,706	1,396	7.0
Variable Air-Volume System Used	221	221	200	16	12	12,430	12,430	11,589	605	904	14.3
Fan Coil Units for Cooling	56	56	52	Q	5	3,875	3,875	3,334	Q	767	20.5
Cooling Only	35	35	34	Q	Q	1,969	1,969	1,772	Q	Q	36.7
Heating and Cooling	21	21	18	Q	3	1,906	1,906	1,562	Q	459	23.0
Individual Air Conditioners	1,023	1,023	1,015	16	2	17,979	17,979	17,734	420	225	13.4
Other	111	111	111	Q	Q	2,919	2,919	2,757	Q	Q	27.3

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A41. Water-Heating Energy Sources, Number of Buildings, 1992

(Thousand)

Building Characteristics	All Buildings	All Buildings with Water Heating	Water-Heating Energy Sources Used (more than one may apply)					RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane	
RSE Column Factor:	0.5	0.5	0.7	0.7	2.0	1.8	2.2	
All Buildings	4,806	3,502	1,696	1,647	126	38	80	7.8
Building Floorspace (square feet)								
1,001 to 5,000	2,681	1,733	878	777	48	Q	50	10.8
5,001 to 10,000	975	787	390	348	43	Q	Q	9.4
10,001 to 25,000	647	539	252	276	13	8	Q	11.9
25,001 to 50,000	280	240	99	129	12	8	Q	14.3
50,001 to 100,000	116	108	41	62	Q	6	Q	13.6
100,001 to 200,000	71	62	22	37	Q	5	Q	16.7
200,001 to 500,000	26	25	10	13	1	4	Q	17.8
Over 500,000	9	9	5	3	Q	1	Q	37.1
Principal Building Activity								
Education	301	230	96	126	10	6	Q	15.4
Food Sales	130	124	70	53	Q	Q	Q	26.0
Food Service	260	259	72	165	Q	Q	Q	15.6
Health Care	63	62	17	39	Q	2	Q	28.5
Lodging	154	152	44	91	Q	6	Q	20.5
Mercantile and Service	1,272	923	476	402	46	Q	Q	10.9
Office	749	705	372	304	28	10	Q	11.2
Parking Garage	24	13	6	Q	Q	Q	Q	55.4
Public Assembly	278	235	101	114	Q	5	Q	16.4
Public Order and Safety	60	58	19	33	Q	Q	Q	35.2
Religious Worship	366	265	146	123	Q	Q	Q	17.2
Warehouse and Storage	761	311	182	124	Q	Q	Q	15.2
Other	69	43	25	17	Q	Q	Q	31.6
Vacant	319	121	71	50	Q	Q	Q	20.2
Year Constructed								
1899 or Before	169	126	57	62	Q	Q	Q	25.4
1900 to 1919	255	202	83	107	18	4	Q	21.8
1920 to 1945	724	507	197	268	36	5	Q	14.1
1946 to 1959	880	638	266	340	18	7	Q	12.7
1960 to 1969	783	580	252	299	18	11	Q	12.9
1970 to 1979	982	721	393	306	21	6	Q	12.2
1980 to 1989	884	649	413	228	Q	4	Q	12.0
1990 to 1992	128	79	37	37	Q	Q	Q	28.9
Census Region								
Northeast	771	625	249	258	113	9	19	13.1
Midwest	1,202	906	369	525	Q	13	Q	15.3
South	1,963	1,307	811	476	10	9	23	13.3
West	870	664	267	387	Q	6	Q	18.0
Energy Sources (more than one may apply)								
Electricity	4,616	3,502	1,696	1,647	126	38	80	7.8
Natural Gas	2,665	2,333	729	1,647	21	13	Q	10.0
Fuel Oil	559	435	234	78	126	5	Q	16.0
District Heat	95	82	30	18	Q	38	Q	20.5
District Chilled Water	28	22	8	8	Q	10	Q	33.2
Propane	337	244	146	10	13	Q	80	21.9
Any Other	163	96	58	26	Q	Q	Q	27.6
Energy End Uses (more than one may apply)								
Heated Buildings	4,178	3,436	1,660	1,621	124	38	76	7.8
Air-Conditioned Buildings	3,502	3,016	1,479	1,436	88	30	57	8.0
Buildings with Water Heating	3,502	3,502	1,696	1,647	126	38	80	7.8
Buildings with Cooking	734	728	264	425	26	12	30	11.6
Buildings with Manufacturing	121	102	62	38	Q	Q	Q	27.0

See footnotes at end of table.

Table A41. Water-Heating Energy Sources, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	All Buildings with Water Heating	Water-Heating Energy Sources Used (more than one may apply)					RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane	
RSE Column Factor:	0.5	0.5	0.7	0.7	2.0	1.8	2.2	
Workers (main shift)								
Less than 5	2,718	1,609	825	700	52	5	45	11.9
5 to 9	895	777	371	366	33	6	Q	12.0
10 to 19	561	512	250	245	16	5	Q	14.0
20 to 49	405	384	156	224	12	9	Q	11.2
50 to 99	130	126	53	67	7	6	Q	15.7
100 to 249	64	62	30	30	3	2	Q	15.3
250 or More	31	31	12	14	2	5	Q	18.2
Weekly Operating Hours								
39 or Fewer	1,039	507	258	227	17	Q	Q	14.2
40 to 48	1,278	979	513	432	29	11	Q	11.5
49 to 60	1,004	764	380	354	38	7	Q	10.8
61 to 84	645	518	239	253	24	3	Q	10.8
85 to 167	478	435	190	221	11	5	Q	16.5
Open Continuously	362	300	117	160	7	10	Q	15.7
Primary Space-Heating Energy Source								
Electricity	1,107	921	724	190	Q	Q	15	12.2
Natural Gas	2,276	1,972	633	1,386	Q	Q	Q	9.7
Fuel Oil	394	292	160	20	109	Q	Q	20.8
District Heat	91	78	28	18	Q	36	Q	21.2
Propane	217	131	84	Q	Q	Q	49	26.1
Wood	68	Q	Q	Q	Q	Q	Q	44.8
Any Other	Q	Q	Q	Q	Q	Q	Q	NF
Cooking Energy Sources (more than one may apply)								
Electricity	356	353	182	153	13	8	Q	15.4
Natural Gas	431	427	79	361	5	6	Q	14.8
Propane	70	70	33	Q	11	Q	27	23.4
Water-Heating Equipment (more than one may apply)								
Centralized System	1,994	1,994	891	961	105	31	52	11.6
Self-Heating Tank	1,799	1,799	851	869	56	15	48	14.0
Heated by Space-Heating Equipment	103	103	17	42	37	7	Q	24.9
Other	106	106	30	55	15	12	Q	22.8
Distributed System	1,557	1,557	822	719	21	7	31	13.0
Residential-Type Storage Tank	1,489	1,489	792	687	18	Q	31	12.6
Point-of-Use	56	56	28	26	Q	1	Q	26.6
Other	24	24	7	15	Q	3	Q	29.3

NF = No applicable RSE row factor.

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A42. Water-Heating Energy Sources, Floorspace, 1992

(Million Square Feet)

Building Characteristics	All Buildings	All Buildings with Water Heating	Water-Heating Energy Sources Used (more than one may apply)					RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane	
RSE Column Factor:	0.5	0.6	0.8	0.7	1.8	1.5	2.3	
All Buildings	67,876	58,479	25,482	29,962	2,470	3,308	659	8.2
Building Floorspace (square feet)								
1,001 to 5,000	7,327	4,928	2,483	2,248	151	Q	128	10.5
5,001 to 10,000	7,199	5,834	2,869	2,601	325	Q	Q	9.1
10,001 to 25,000	10,375	8,724	4,121	4,528	194	137	Q	11.7
25,001 to 50,000	10,069	8,637	3,564	4,640	436	308	Q	14.8
50,001 to 100,000	8,062	7,489	2,837	4,332	Q	391	Q	13.3
100,001 to 200,000	9,678	8,492	2,900	5,209	Q	576	Q	15.9
200,001 to 500,000	7,889	7,466	2,974	3,718	316	1,151	Q	18.3
Over 500,000	7,278	6,910	3,734	2,685	Q	713	Q	30.5
Principal Building Activity								
Education	8,470	8,036	2,002	5,514	798	390	Q	14.3
Food Sales	757	739	387	374	Q	Q	Q	28.6
Food Service	1,491	1,490	386	906	Q	Q	Q	20.5
Health Care	1,763	1,760	227	1,150	Q	314	Q	22.0
Lodging	2,891	2,869	398	1,938	Q	470	Q	22.5
Mercantile and Service	12,402	10,809	5,503	5,607	285	Q	Q	14.6
Office	12,319	12,030	5,790	4,824	613	1,258	Q	13.6
Parking Garage	1,652	933	530	Q	Q	Q	Q	55.5
Public Assembly	4,556	4,346	Q	1,802	Q	216	Q	30.8
Public Order and Safety	820	804	179	444	Q	Q	Q	39.6
Religious Worship	3,747	3,384	1,637	1,935	Q	Q	Q	22.0
Warehouse and Storage	11,484	7,887	4,522	3,534	Q	Q	Q	17.4
Other	1,130	1,001	522	416	Q	Q	Q	27.5
Vacant	4,396	2,391	1,236	1,222	Q	Q	Q	31.8
Year Constructed								
1899 or Before	1,721	1,457	522	841	Q	Q	Q	26.5
1900 to 1919	3,608	3,126	1,182	1,933	351	175	Q	27.1
1920 to 1945	8,712	7,004	2,336	3,857	516	563	Q	18.6
1946 to 1959	10,421	8,784	3,220	5,129	359	376	Q	13.7
1960 to 1969	12,612	11,006	3,423	6,542	416	1,140	Q	15.7
1970 to 1979	14,014	12,369	5,946	5,733	458	664	Q	13.4
1980 to 1989	14,287	12,565	7,874	4,809	Q	267	Q	15.6
1990 to 1992	2,502	2,167	980	1,117	Q	67	Q	20.8
Census Region								
Northeast	13,400	12,410	4,366	5,607	2,157	990	225	14.5
Midwest	17,280	15,460	5,643	9,161	Q	1,287	Q	12.7
South	24,577	19,592	11,302	8,476	169	449	198	14.1
West	12,619	11,017	4,171	6,717	Q	582	Q	13.7
Energy Sources (more than one may apply)								
Electricity	66,549	58,479	25,482	29,962	2,470	3,308	659	8.2
Natural Gas	45,097	43,151	13,814	29,962	1,076	1,437	Q	8.7
Fuel Oil	13,218	12,605	5,329	5,179	2,470	784	Q	11.5
District Heat	5,339	5,177	1,099	1,120	Q	3,308	Q	19.3
District Chilled Water	2,066	1,978	342	494	Q	1,108	Q	29.6
Propane	3,393	2,961	1,538	550	467	Q	659	19.4
Any Other	1,551	1,287	456	582	Q	Q	Q	41.0
Energy End Uses (more than one may apply)								
Heated Buildings	61,996	57,708	24,878	29,802	2,464	3,308	648	8.3
Air-Conditioned Buildings	57,041	53,839	23,657	27,766	2,089	2,972	563	8.5
Buildings with Water Heating	58,479	58,479	25,482	29,962	2,470	3,308	659	8.3
Buildings with Cooking	23,065	22,993	8,200	13,339	1,202	1,768	395	12.3
Buildings with Manufacturing	3,174	2,976	1,713	1,366	Q	Q	Q	24.2

See footnotes at end of table.

Table A42. Water-Heating Energy Sources, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	All Buildings	All Buildings with Water Heating	Water-Heating Energy Sources Used (more than one may apply)					RSE Row Factor
			Electricity	Natural Gas	Fuel Oil	District Heat	Propane	
RSE Column Factor:	0.5	0.6	0.8	0.7	1.8	1.5	2.3	
Workers (main shift)								
Less than 5	17,944	11,207	6,032	4,748	273	86	199	18.7
5 to 9	7,524	6,432	3,060	3,057	260	169	Q	14.2
10 to 19	8,077	7,089	3,421	3,500	191	168	Q	15.7
20 to 49	10,556	10,215	3,601	6,343	331	330	Q	12.6
50 to 99	7,763	7,644	2,429	4,836	399	495	Q	17.0
100 to 249	7,378	7,278	3,262	3,804	464	474	Q	18.8
250 or More	8,633	8,613	3,677	3,674	551	1,586	Q	17.8
Weekly Operating Hours								
39 or Fewer	8,246	5,005	2,085	2,636	340	Q	Q	16.8
40 to 48	14,998	12,613	6,108	6,204	527	383	Q	11.4
49 to 60	14,046	12,405	6,019	5,899	378	734	Q	11.6
61 to 84	12,062	11,308	5,306	5,804	326	435	Q	15.9
85 to 167	8,467	8,020	2,968	4,367	534	406	Q	19.3
Open Continuously	10,057	9,128	2,996	5,051	363	1,316	Q	22.1
Primary Space-Heating Energy Source								
Electricity	15,502	14,200	11,365	3,039	Q	Q	164	15.9
Natural Gas	35,161	33,406	10,389	24,877	Q	Q	Q	8.8
Fuel Oil	4,415	3,911	1,504	522	2,116	Q	Q	20.5
District Heat	5,014	4,856	987	1,086	Q	3,118	Q	20.5
Propane	1,101	702	397	Q	Q	Q	307	25.3
Wood	257	Q	Q	Q	Q	Q	Q	35.2
Any Other	546	506	Q	Q	Q	Q	Q	86.0
Cooking Energy Sources (more than one may apply)								
Electricity	12,183	12,151	5,725	5,862	512	1,192	Q	18.4
Natural Gas	15,233	15,193	3,766	11,383	597	802	Q	13.6
Propane	1,039	1,039	505	Q	313	Q	291	28.6
Water-Heating Equipment (more than one may apply)								
Centralized System	31,599	31,599	11,504	16,228	2,127	2,889	467	11.1
Self-Heating Tank	24,464	24,464	10,388	12,906	1,062	915	425	13.6
Heated by Space-Heating								
Equipment	3,722	3,722	514	1,706	984	841	Q	24.0
Other	4,032	4,032	773	2,130	257	1,170	Q	18.6
Distributed System	29,502	29,502	15,671	14,816	397	528	245	12.8
Residential-Type Storage								
Tank	25,809	25,809	14,008	13,174	273	155	241	13.6
Point-of-Use	3,367	3,367	Q	1,467	Q	138	Q	39.4
Other	1,259	1,259	439	757	Q	257	Q	31.2

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A43. Cooking Energy Sources, Number of Buildings and Floorspace, 1992

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	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	
			0.5	0.8	1.1			1.0	1.8	0.5	
RSE Column Factor:	0.5	0.8	1.1	1.0	1.8	0.5	0.9	1.2	1.0	2.3	
All Buildings	4,806	734	356	431	70	67,876	23,065	12,183	15,233	1,039	7.7
Building Floorspace (square feet)											
1,001 to 5,000	2,681	320	158	175	35	7,327	903	440	498	98	10.2
5,001 to 10,000	975	137	75	70	Q	7,199	998	542	518	Q	11.1
10,001 to 25,000	647	114	45	75	Q	10,375	1,852	780	1,223	Q	11.3
25,001 to 50,000	280	70	25	50	Q	10,069	2,627	923	1,930	Q	15.0
50,001 to 100,000	116	44	25	27	Q	8,062	3,110	1,764	1,885	Q	12.4
100,001 to 200,000	71	29	16	18	Q	9,678	4,062	2,252	2,597	Q	14.9
200,001 to 500,000	26	15	8	11	Q	7,889	4,639	2,254	3,470	Q	15.6
Over 500,000	9	6	4	4	Q	7,278	4,874	3,227	3,111	Q	29.3
Principal Building Activity											
Education	301	98	44	63	7	8,470	5,676	2,579	4,179	267	13.3
Food Sales	130	40	24	17	Q	757	350	230	226	Q	26.4
Food Service	260	244	101	169	30	1,491	1,450	626	1,043	147	12.7
Health Care	63	6	4	5	Q	1,763	1,289	631	1,013	Q	22.0
Lodging	154	38	15	29	Q	2,891	1,600	599	1,291	Q	22.7
Mercantile and Service	1,272	89	60	39	Q	12,402	3,806	2,395	2,797	Q	16.3
Office	749	30	15	14	Q	12,319	3,674	2,237	1,853	Q	14.0
Parking Garage	24	Q	Q	Q	Q	1,652	Q	Q	Q	Q	48.8
Public Assembly	278	82	41	41	Q	4,556	2,669	Q	1,114	Q	22.4
Public Order and Safety	60	Q	Q	Q	Q	820	Q	Q	Q	Q	40.5
Religious Worship	366	68	34	32	Q	3,747	1,231	600	823	Q	23.9
Warehouse and Storage	761	13	Q	Q	Q	11,484	349	Q	Q	Q	22.9
Other	69	Q	Q	Q	Q	1,130	Q	Q	Q	Q	29.6
Vacant	319	18	Q	12	Q	4,396	507	Q	Q	Q	30.9
Year Constructed											
1899 or Before	169	41	18	24	Q	1,721	495	188	364	Q	22.2
1900 to 1919	255	42	13	29	Q	3,608	1,334	495	1,131	Q	23.9
1920 to 1945	724	101	41	64	Q	8,712	2,225	873	1,491	Q	14.6
1946 to 1959	880	134	59	85	Q	10,421	2,849	1,171	2,119	Q	12.1
1960 to 1969	783	120	58	70	14	12,612	4,920	2,734	3,477	298	16.0
1970 to 1979	982	154	81	84	12	14,014	5,071	2,427	3,502	253	13.8
1980 to 1989	884	122	72	69	Q	14,287	5,313	3,706	2,698	Q	15.1
1990 to 1992	128	21	14	7	Q	2,502	859	590	452	Q	23.6
Census Region											
Northeast	771	142	68	73	28	13,400	5,740	2,963	3,891	510	14.2
Midwest	1,202	201	86	142	Q	17,280	5,800	2,832	4,395	Q	11.0
South	1,963	257	143	120	29	24,577	7,768	4,287	4,318	377	15.1
West	870	134	59	96	Q	12,619	3,757	2,101	2,628	Q	14.0
Energy Sources (more than one may apply)											
Electricity	4,616	734	356	431	70	66,549	23,065	12,183	15,233	1,039	7.7
Natural Gas	2,665	532	204	431	Q	45,097	18,487	8,382	15,233	Q	7.9
Fuel Oil	559	101	61	35	28	13,218	7,452	4,092	4,913	570	13.3
District Heat	95	19	10	12	Q	5,339	2,280	1,386	1,224	Q	19.5
District Chilled Water	28	8	4	6	Q	2,066	920	546	478	Q	31.4
Propane	337	84	31	5	70	3,393	1,549	685	270	1,039	20.1
Any Other	163	13	10	Q	Q	1,551	399	253	Q	Q	28.5

See footnotes at end of table.

Table A43. Cooking Energy Sources, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	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	
RSE Column Factor:	0.5	0.8	1.1	1.0	1.8	0.5	0.9	1.2	1.0	2.3	
Energy End Uses (more than one may apply)											
Heated Buildings	4,178	715	344	425	66	61,996	22,736	12,124	14,987	1,000	7.7
Air-Conditioned Buildings	3,502	663	326	392	61	57,041	22,003	11,792	14,533	944	8.1
Buildings with Water Heating	3,502	728	353	427	70	58,479	22,993	12,151	15,193	1,039	7.8
Buildings with Cooking	734	734	356	431	70	23,065	23,065	12,183	15,233	1,039	8.5
Buildings with Manufacturing	121	13	7	7	Q	3,174	528	281	309	Q	28.3
Workers (main shift)											
Less than 5	2,718	260	146	119	29	17,944	2,678	Q	892	128	15.4
5 to 9	895	155	66	97	Q	7,524	1,326	687	705	Q	12.6
10 to 19	561	126	55	80	Q	8,077	1,719	707	1,233	Q	14.0
20 to 49	405	105	39	79	Q	10,556	3,419	1,172	2,662	Q	13.6
50 to 99	130	43	25	28	Q	7,763	3,424	1,885	2,209	Q	14.6
100 to 249	64	26	14	18	Q	7,378	3,998	2,020	3,072	Q	15.0
250 or More	31	18	11	11	Q	8,633	6,502	3,858	4,459	Q	14.4
Weekly Operating Hours											
39 or Fewer	1,039	116	68	46	Q	8,246	1,828	826	1,098	Q	18.4
40 to 48	1,278	89	38	54	Q	14,998	3,010	1,726	1,912	Q	14.2
49 to 60	1,004	83	36	56	Q	14,046	3,118	1,723	1,852	Q	12.7
61 to 84	645	149	68	97	Q	12,062	5,195	2,805	3,487	Q	11.7
85 to 167	478	218	107	126	25	8,467	4,750	2,418	3,619	179	13.8
Open Continuously	362	78	40	52	Q	10,057	5,163	2,684	3,266	Q	17.6
Water-Heating Energy Sources (more than one may apply)											
Electricity	1,696	264	182	79	33	25,482	8,200	5,725	3,766	505	12.7
Natural Gas	1,647	425	153	361	Q	29,962	13,339	5,862	11,383	Q	8.8
Fuel Oil	126	26	13	5	11	2,470	1,202	512	597	313	25.1
District Heat	38	12	8	6	Q	3,308	1,768	1,192	802	Q	24.8
Propane	80	30	Q	Q	27	659	395	Q	Q	291	27.8

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A44. Percent of Floorspace Heated, Number of Buildings and Floorspace, 1992

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	Not Heated	Less than 51 Percent Heated	51 to 99 Percent Heated	100 Percent Heated	All Buildings	Total Heated Floorspace in All Buildings	Not Heated	Less than 51 Percent Heated	51 to 99 Percent Heated	100 Percent Heated	
RSE Column Factor:	0.6	1.6	1.2	1.1	0.7	0.6	0.6	2.2	1.6	1.2	0.7	
All Buildings	4,806	653	688	618	2,846	67,876	51,200	6,211	11,195	10,211	40,260	5.6
Building Floorspace (square feet)												
1,001 to 5,000	2,681	448	340	294	1,600	7,327	5,281	1,150	1,014	844	4,319	7.2
5,001 to 10,000	975	99	156	152	568	7,199	5,370	724	1,182	1,115	4,178	6.8
10,001 to 25,000	647	64	116	96	371	10,375	7,780	979	1,801	1,546	6,050	8.4
25,001 to 50,000	280	27	46	40	167	10,069	7,521	995	1,665	1,415	5,995	12.0
50,001 to 100,000	116	6	13	19	77	8,062	6,665	473	937	1,289	5,364	12.5
100,001 to 200,000	71	7	10	11	43	9,678	7,233	983	1,395	1,590	5,710	16.5
200,001 to 500,000	26	2	4	4	16	7,889	6,287	425	1,148	1,168	5,148	17.1
Over 500,000	9	Q	2	1	5	7,278	5,063	Q	2,054	1,245	3,497	32.5
Principal Building Activity												
Education	301	Q	Q	30	259	8,470	8,161	Q	Q	1,105	7,143	13.2
Food Sales	130	Q	Q	29	79	757	636	Q	Q	189	468	23.2
Food Service	260	Q	21	50	178	1,491	1,259	Q	165	337	934	17.4
Health Care	63	Q	Q	11	50	1,763	1,705	Q	Q	253	1,471	22.4
Lodging	154	Q	Q	20	124	2,891	2,724	Q	Q	601	2,185	19.9
Mercantile and Service	1,272	68	208	210	786	12,402	9,790	619	2,287	2,310	7,186	11.1
Office	749	Q	43	141	561	12,319	11,127	Q	787	3,031	8,437	10.5
Parking Garage	24	7	7	Q	Q	1,652	134	487	1,094	Q	Q	28.6
Public Assembly	278	Q	36	33	188	4,556	3,936	Q	501	402	3,487	21.7
Public Order and Safety	60	Q	Q	Q	45	820	785	Q	Q	Q	729	34.4
Religious Worship	366	Q	20	36	306	3,747	3,493	Q	297	397	3,041	18.8
Warehouse and Storage	761	325	243	38	155	11,484	4,942	2,771	4,287	1,207	3,219	12.2
Other	69	Q	Q	Q	36	1,130	876	Q	Q	Q	729	25.7
Vacant	319	170	67	Q	73	4,396	1,631	1,769	1,212	Q	1,194	15.2
Year Constructed												
1899 or Before	169	Q	35	32	88	1,721	1,319	Q	332	313	973	20.9
1900 to 1919	255	24	45	38	147	3,608	2,642	325	764	590	1,930	19.1
1920 to 1945	724	106	135	110	374	8,712	5,849	1,119	2,015	1,208	4,371	12.4
1946 to 1959	880	121	115	109	535	10,421	7,888	1,053	1,495	1,581	6,292	11.5
1960 to 1969	783	99	115	97	473	12,612	9,702	1,084	2,040	2,061	7,427	11.1
1970 to 1979	982	145	114	125	598	14,014	10,725	1,292	1,966	2,039	8,716	9.9
1980 to 1989	884	124	117	98	544	14,287	11,068	1,036	2,304	2,074	8,873	11.7
1990 to 1992	128	21	11	Q	87	2,502	2,006	199	279	345	1,679	18.2
Census Region												
Northeast	771	77	98	111	484	13,400	10,640	646	2,479	2,114	8,161	11.2
Midwest	1,202	168	163	143	727	17,280	14,107	1,120	2,034	2,249	11,876	10.1
South	1,963	280	298	229	1,155	24,577	17,550	2,983	4,414	3,107	14,073	9.4
West	870	128	128	135	480	12,619	8,903	1,460	2,268	2,740	6,151	12.6
Energy Sources (more than one may apply)												
Electricity	4,616	467	686	616	2,846	66,549	51,194	4,894	11,191	10,204	40,260	5.8
Natural Gas	2,665	47	374	425	1,820	45,097	37,980	647	7,038	7,694	29,718	8.5
Fuel Oil	559	Q	84	85	378	13,218	11,413	Q	1,357	2,696	8,760	11.9
District Heat	95	Q	4	9	82	5,339	4,887	Q	385	815	4,106	22.3
District Chilled Water	28	Q	Q	3	23	2,066	1,852	Q	Q	394	1,493	28.8
Propane	337	Q	58	49	218	3,393	2,645	Q	659	726	1,924	18.6
Any Other	163	Q	51	Q	84	1,551	1,147	Q	324	Q	923	22.9

See footnotes at end of table.

Table A44. Percent of Floorspace Heated, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	Not Heated	Less than 51 Percent Heated	51 to 99 Percent Heated	100 Percent Heated	All Buildings	Total Heated Floorspace in All Buildings	Not Heated	Less than 51 Percent Heated	51 to 99 Percent Heated	100 Percent Heated	
	0.6	1.6	1.2	1.1	0.7	0.6	0.6	2.2	1.6	1.2	0.7	
Energy End Uses (more than one may apply)												
Heated Buildings	4,178	25	688	618	2,846	61,996	51,200	330	11,195	10,211	40,260	6.9
Air-Conditioned Buildings	3,502	66	508	538	2,390	57,041	46,735	1,067	9,796	9,553	36,626	7.5
Buildings with Water Heating	3,502	73	492	539	2,398	58,479	48,559	888	9,557	9,745	38,289	6.9
Buildings with Cooking	734	19	59	133	523	23,065	20,546	Q	2,044	4,280	16,332	10.9
Buildings with Manufacturing	121	Q	26	31	58	3,174	2,292	Q	859	710	1,513	21.3
Climate Zone: 45-Year Average												
Fewer than 2,000 CDD and --												
More than 7,000 HDD	399	59	45	55	240	5,623	4,494	453	607	810	3,753	20.5
5,500-7,000 HDD	1,134	125	153	159	697	18,024	14,913	905	2,423	2,786	11,910	13.7
4,000-5,499 HDD	1,077	122	149	122	684	16,162	12,319	1,376	2,794	2,132	9,859	16.3
Fewer than 4,000 HDD	1,101	152	169	130	651	15,251	10,715	1,725	2,987	2,395	8,145	17.1
More than 2,000 CDD and --												
Fewer than 4,000 HDD	1,095	196	171	153	575	12,816	8,758	1,751	2,384	2,088	6,593	14.6
Predominant Exterior Wall Material												
Masonry	3,115	280	404	424	2,008	48,585	38,566	3,299	7,050	7,350	30,886	6.6
Siding or Shingles	764	131	90	107	436	3,873	2,859	572	422	638	2,241	11.4
Metal Panels	745	220	159	56	310	7,392	3,671	1,802	2,185	803	2,603	12.1
Concrete Panels	87	12	16	11	48	4,961	3,583	300	1,259	801	2,600	20.4
Window Glass	46	Q	Q	9	23	2,028	1,644	Q	Q	398	1,244	27.1
Other	47	Q	Q	13	20	1,037	877	Q	Q	221	686	35.8
Predominant Roof Material												
Built-Up	1,642	160	257	243	983	30,257	23,789	2,126	4,328	5,398	18,405	8.1
Shingles (Not Wood)	1,381	144	152	177	908	10,570	8,362	843	1,523	1,435	6,769	9.8
Metal Surfacing	1,037	283	211	91	452	9,019	4,729	1,990	2,653	915	3,462	10.8
Synthetic or Rubber	386	19	33	54	280	11,702	10,392	206	1,168	1,682	8,647	13.6
Slate or Tile	155	Q	13	17	110	1,998	1,693	Q	194	302	1,368	23.7
Concrete	37	15	6	Q	14	2,544	758	806	1,156	96	485	30.9
Other	167	Q	Q	35	100	1,786	1,477	Q	Q	383	1,125	22.5
Floors												
One	3,007	532	409	327	1,739	25,424	17,666	3,482	4,608	2,878	14,456	8.5
Two	1,154	87	190	160	716	18,025	14,211	877	3,386	2,823	10,939	8.1
Three	446	25	62	90	268	9,877	8,087	698	1,047	1,809	6,324	12.6
Four to Nine	186	9	26	38	114	10,377	7,687	966	1,725	1,744	5,943	16.2
Ten or More	13	Q	2	2	9	4,173	3,549	Q	Q	957	2,599	24.2
Percent Window Glass												
25 or Less	4,193	620	638	513	2,422	51,356	36,753	5,813	9,581	6,761	29,201	6.1
26 to 50	490	26	41	78	344	11,815	10,169	324	1,371	2,379	7,741	11.9
51 to 75	94	Q	Q	24	59	3,206	2,911	Q	Q	876	2,147	18.7
76 to 100	29	Q	Q	3	21	1,499	1,366	Q	Q	195	1,171	30.8
Workers (main shift)												
Less than 5	2,718	586	442	265	1,424	17,944	10,188	4,578	3,678	1,318	8,371	9.0
5 to 9	895	36	127	154	578	7,524	5,541	455	1,659	1,265	4,146	10.1
10 to 19	561	23	69	100	370	8,077	5,714	Q	1,992	1,247	4,286	11.7
20 to 49	405	Q	35	63	303	10,556	8,974	Q	1,350	1,801	7,206	10.4
50 to 99	130	Q	9	18	101	7,763	6,601	Q	1,123	1,200	5,329	14.9
100 to 249	64	Q	4	10	49	7,378	6,730	Q	486	1,425	5,412	17.0
250 or More	31	Q	1	8	22	8,633	7,450	Q	907	1,956	5,511	16.8

See footnotes at end of table.

Table A44. Percent of Floorspace Heated, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	Not Heated	Less than 51 Percent Heated	51 to 99 Percent Heated	100 Percent Heated	All Buildings	Total Heated Floorspace in All Buildings	Not Heated	Less than 51 Percent Heated	51 to 99 Percent Heated	100 Percent Heated	
	0.6	1.6	1.2	1.1	0.7	0.6	0.6	2.2	1.6	1.2	0.7	
Weekly Operating Hours												
39 or Fewer	1,039	323	109	78	528	8,246	5,005	2,369	1,083	467	4,327	11.0
40 to 48	1,278	100	215	164	799	14,998	11,236	1,309	2,579	2,096	9,015	9.1
49 to 60	1,004	87	182	152	583	14,046	10,662	845	2,635	2,877	7,690	9.5
61 to 84	645	43	89	105	407	12,062	9,925	541	1,654	2,227	7,639	11.9
85 to 167	478	43	60	81	294	8,467	6,546	409	1,771	1,275	5,012	13.1
Open Continuously	362	56	33	38	235	10,057	7,826	737	1,473	1,269	6,577	15.9
Additional Operating Hours for Equipment Use												
Heating and/or Cooling	1,223	Q	130	198	882	20,300	17,349	Q	2,614	3,571	13,695	9.7
Lighting	633	33	101	116	384	12,886	10,398	528	2,154	2,249	7,955	12.0
Heating and/or Cooling and Lighting	371	Q	34	76	257	8,717	7,300	Q	1,231	1,542	5,656	15.7
No Additional Hours	3,320	612	491	381	1,837	43,407	30,753	5,549	7,659	5,933	24,267	7.3
Percent Vacant for at Least Three Months												
1-50 Percent	362	36	62	84	179	12,420	9,716	559	2,112	3,021	6,729	13.0
51-99 Percent	97	Q	45	7	32	2,263	1,221	Q	1,020	210	809	26.1
100 Percent	398	202	49	11	136	4,109	1,821	1,792	606	94	1,617	15.8
None	3,948	402	531	516	2,499	49,085	38,443	3,636	7,458	6,887	31,105	6.4
Space-Heating Energy Source (more than one may apply)												
Electricity	1,513	Q	283	224	999	25,636	19,934	Q	5,932	4,569	14,983	9.2
Natural Gas	2,405	Q	353	392	1,654	38,524	32,467	Q	6,524	6,596	25,235	7.2
Fuel Oil	479	Q	73	70	330	7,334	6,541	Q	702	1,444	5,148	14.5
District Heat	94	Q	4	9	80	5,242	4,805	Q	385	815	4,024	22.4
Propane	255	Q	51	34	163	1,568	1,175	Q	393	285	858	23.1
Wood	102	Q	36	Q	49	504	306	Q	211	Q	188	24.8
Any Other	39	Q	Q	Q	26	661	491	Q	Q	Q	444	62.9
Primary Space-Heating Energy Source												
Electricity	1,107	Q	220	160	720	15,502	11,600	Q	4,044	2,406	8,980	11.2
Natural Gas	2,276	Q	332	361	1,576	35,161	29,755	Q	5,783	6,064	23,226	7.5
Fuel Oil	394	Q	62	53	276	4,415	3,896	Q	495	815	3,072	18.3
District Heat	91	Q	3	9	79	5,014	4,601	Q	381	725	3,890	23.3
Propane	217	Q	40	26	146	1,101	794	Q	302	160	610	25.8
Wood	68	Q	Q	Q	Q	257	145	Q	Q	Q	Q	35.7
Any Other	Q	Q	Q	Q	Q	546	Q	Q	Q	Q	Q	71.6
Replacement Energy Source for Primary Heating												
Electricity Only	350	Q	71	55	223	2,559	1,958	Q	674	480	1,389	15.3
Natural Gas Only	213	Q	40	29	143	2,260	1,830	Q	459	279	1,479	19.7
Fuel Oil Only	161	Q	25	31	103	5,451	4,926	Q	527	779	4,140	18.4
Propane Only	212	Q	46	28	135	2,174	1,822	Q	336	366	1,438	19.2
Any Other Single Energy Source	57	Q	Q	Q	34	477	362	Q	Q	Q	153	39.3
More than One Energy Source	93	Q	Q	Q	71	895	743	Q	Q	Q	566	25.8
Percent of Floorspace Cooled												
Not Cooled	1,304	587	180	81	456	10,835	4,465	5,144	1,399	657	3,635	10.3
1 to 50	1,176	48	459	149	520	21,715	14,054	657	8,453	2,745	9,860	9.6
51 to 99	658	Q	23	337	294	13,872	11,915	Q	Q	6,041	6,764	10.3
100	1,668	15	26	51	1,576	21,454	20,766	168	517	767	20,001	13.6

See footnotes at end of table.

Table A44. Percent of Floorspace Heated, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor	
	All Buildings	Not Heated	Less than 51 Percent Heated	51 to 99 Percent Heated	100 Percent Heated	All Buildings	Total Heated Floorspace in All Buildings	Not Heated	Less than 51 Percent Heated	51 to 99 Percent Heated		100 Percent Heated
	0.6	1.6	1.2	1.1	0.7	0.6	0.6	2.2	1.6	1.2		0.7
Percent Lit when Open												
Not Lit	413	315	29	Q	55	3,280	758	2,327	214	Q	661	17.5
1 to 50	881	130	344	83	325	9,980	5,326	1,540	3,942	857	3,641	10.7
51 to 99	813	36	66	255	456	14,224	12,007	Q	1,325	4,535	7,951	11.5
100	2,699	172	249	267	2,011	40,393	33,109	1,929	5,714	4,742	28,007	7.6
Heating Equipment (more than one may apply)												
Heat Pumps	449	Q	74	68	307	8,269	6,647	Q	1,611	1,908	4,750	13.5
Furnaces	1,692	Q	241	267	1,184	16,909	13,366	Q	4,139	2,671	10,099	8.3
Individual Space Heaters	1,464	Q	352	210	902	22,380	17,295	Q	5,663	3,667	13,049	8.6
District Heat	93	Q	4	9	80	5,225	4,805	Q	385	815	4,024	22.4
Boilers	624	Q	47	93	484	20,664	19,125	Q	1,366	3,551	15,747	10.6
Packaged Heating Units	870	Q	96	166	608	16,000	13,423	Q	2,623	3,519	9,857	11.3
Other	42	Q	Q	Q	36	903	813	Q	Q	Q	625	32.3
Heating Distribution Equipment (more than one may apply)												
Radiators or Baseboards	473	Q	33	68	372	13,263	12,374	Q	742	2,347	10,173	12.2
Ducts for Heating	2,955	Q	384	467	2,104	45,422	38,208	Q	7,757	7,852	29,813	6.5
Heating Only	577	Q	102	85	391	5,950	4,658	Q	1,673	809	3,468	13.1
Heating and Cooling	2,378	Q	282	382	1,714	39,472	33,550	Q	6,084	7,043	26,345	7.2
Variable Air-Volume System Used	210	Q	11	31	168	11,528	10,403	Q	1,255	1,764	8,508	17.5
Fan Coil Units for												
Heating	99	Q	11	12	76	5,474	4,973	Q	404	1,190	3,881	18.0
Heating Only	78	Q	Q	11	60	3,569	3,303	Q	Q	897	2,488	20.0
Heating and Cooling	21	Q	Q	2	16	1,906	1,669	Q	Q	293	1,393	26.1
Individual Space Heaters	1,464	Q	352	210	902	22,380	17,295	Q	5,663	3,667	13,049	8.6
Other	181	Q	24	37	120	3,310	2,919	Q	416	740	2,154	20.3
Building Shell Conservation Features (more than one may apply)												
Roof or Ceiling Insulation	3,343	196	431	475	2,241	50,311	41,248	2,154	7,135	8,462	32,559	6.4
Wall Insulation	2,320	126	307	325	1,563	33,240	27,871	1,170	4,163	5,672	22,235	7.9
Storm or Multiple Glazing	1,680	44	189	255	1,193	29,684	25,883	327	3,584	4,674	21,099	9.2
Tinted, Reflective or Shading Glass	1,068	53	136	162	718	25,396	21,475	587	3,437	4,596	16,776	10.9
Exterior or Interior Shading or Awnings	1,853	52	240	301	1,259	34,071	29,282	744	3,887	6,291	23,149	7.9
Windows that Open	2,119	198	297	279	1,345	28,937	23,120	1,738	4,442	4,202	18,555	7.9
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System	250	Q	16	35	196	13,970	12,514	Q	1,475	2,100	10,302	15.0
Economizer Cycle	414	Q	35	62	311	18,313	16,401	Q	1,908	3,119	13,204	12.7
HVAC Maintenance	2,503	38	319	347	1,799	49,173	41,573	885	7,032	7,481	33,776	7.8

See footnotes at end of table.

Table A44. Percent of Floorspace Heated, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	Not Heated	Less than 51 Percent Heated	51 to 99 Percent Heated	100 Percent Heated	All Buildings	Total Heated Floorspace in All Buildings	Not Heated	Less than 51 Percent Heated	51 to 99 Percent Heated	100 Percent Heated	
	0.6	1.6	1.2	1.1	0.7	0.6	0.6	2.2	1.6	1.2	0.7	
Off-Hour Equipment Reduction (more than one may apply)												
Heating	3,400	Q	581	525	2,280	46,248	38,248	Q	8,552	8,053	29,493	5.8
Cooling	2,872	53	427	452	1,939	42,768	34,944	771	7,616	7,616	26,765	7.6
Hot Water	578	22	94	78	385	9,966	8,578	115	1,340	1,926	6,585	11.6
Lighting	4,089	340	626	561	2,562	54,944	42,646	3,551	9,474	8,837	33,082	5.8
Other	547	24	79	102	342	7,996	6,210	156	1,725	1,765	4,350	15.4
Energy Management Practices (more than one may apply)												
Energy Management and Control System	236	Q	12	35	188	14,320	13,229	Q	877	2,708	10,707	15.1
Demand-Side Management Participation	315	Q	34	45	234	11,310	9,932	Q	1,360	1,878	8,010	13.4
Energy Audit	521	17	51	78	376	14,779	12,437	512	1,707	2,709	9,852	12.3
Building Energy Manager	49	Q	7	6	36	2,311	2,035	Q	323	289	1,699	27.8

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A45. Percent of Floorspace Cooled, Number of Buildings and Floorspace, 1992

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	Not Cooled	Less than 51 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled	All Buildings	Total Cooled Floorspace in All Buildings	Not Cooled	Less than 51 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled	
	0.6	1.2	1.0	1.2	1.0	0.7	0.8	1.4	1.1	1.2	1.1	
RSE Column Factor:	0.6	1.2	1.0	1.2	1.0	0.7	0.8	1.4	1.1	1.2	1.1	RSE Row Factor
All Buildings	4,806	1,304	1,176	658	1,668	67,876	36,457	10,835	21,715	13,872	21,454	5.3
Building Floorspace (square feet)												
1,001 to 5,000	2,681	889	507	299	987	7,327	3,714	2,332	1,531	830	2,633	7.1
5,001 to 10,000	975	216	279	152	327	7,199	3,802	1,598	2,091	1,136	2,374	6.6
10,001 to 25,000	647	128	215	108	196	10,375	5,354	2,012	3,398	1,753	3,213	8.5
25,001 to 50,000	280	44	103	46	87	10,069	5,167	1,635	3,696	1,652	3,087	11.0
50,001 to 100,000	116	12	38	27	39	8,062	4,646	878	2,703	1,785	2,697	11.2
100,001 to 200,000	71	12	21	16	22	9,678	4,999	1,606	2,932	2,247	2,893	14.2
200,001 to 500,000	26	2	9	8	7	7,889	4,386	672	2,705	2,371	2,141	16.5
Over 500,000	9	Q	4	2	Q	7,278	4,389	Q	2,660	2,098	2,416	28.7
Principal Building Activity												
Education	301	49	52	39	160	8,470	4,426	1,080	3,008	1,538	2,844	12.1
Food Sales	130	Q	Q	25	70	757	598	Q	Q	235	377	20.4
Food Service	260	Q	42	72	130	1,491	1,142	Q	361	449	638	14.2
Health Care	63	Q	Q	15	40	1,763	1,591	Q	Q	576	1,081	18.1
Lodging	154	34	12	31	77	2,891	2,074	398	356	891	1,246	18.9
Mercantile and Service	1,272	330	457	163	322	12,402	6,998	1,528	4,088	3,332	3,454	9.5
Office	749	Q	84	187	460	12,319	10,485	Q	1,238	4,662	6,298	9.0
Parking Garage	24	11	10	Q	Q	1,652	78	731	891	Q	Q	32.6
Public Assembly	278	70	56	40	112	4,556	3,217	479	902	808	2,367	18.3
Public Order and Safety	60	Q	30	Q	9	820	404	Q	392	Q	186	28.3
Religious Worship	366	80	41	39	206	3,747	2,192	626	1,015	450	1,657	16.1
Warehouse and Storage	761	437	282	18	24	11,484	1,648	3,599	7,090	392	402	13.9
Other	69	25	20	10	15	1,130	617	90	478	260	301	23.6
Vacant	319	205	62	Q	44	4,396	989	2,014	1,693	Q	598	16.4
Year Constructed												
1899 or Before	169	50	67	24	28	1,721	672	414	828	228	251	19.4
1900 to 1919	255	86	68	44	58	3,608	1,366	849	1,555	679	526	17.7
1920 to 1945	724	234	190	106	195	8,712	3,511	2,126	3,240	1,492	1,853	11.5
1946 to 1959	880	237	250	111	282	10,421	4,647	2,161	3,942	1,636	2,682	9.7
1960 to 1969	783	220	181	103	279	12,612	6,994	2,011	3,604	3,167	3,830	10.2
1970 to 1979	982	241	212	142	387	14,014	8,497	1,728	3,881	3,035	5,370	8.7
1980 to 1989	884	202	191	112	379	14,287	9,055	1,302	4,132	3,045	5,807	11.0
1990 to 1992	128	35	17	16	60	2,502	1,716	244	534	590	1,134	18.1
Census Region												
Northeast	771	250	241	125	155	13,400	5,847	2,242	5,640	3,049	2,469	11.0
Midwest	1,202	417	287	170	327	17,280	8,393	2,898	6,318	3,825	4,240	9.4
South	1,963	394	486	244	839	24,577	15,202	3,372	6,482	4,097	10,627	8.7
West	870	243	161	119	347	12,619	7,015	2,323	3,275	2,902	4,118	11.2
Energy Sources (more than one may apply)												
Electricity	4,616	1,114	1,176	658	1,668	66,549	36,457	9,508	21,715	13,872	21,454	5.3
Natural Gas	2,665	402	740	457	1,065	45,097	26,496	3,674	15,579	10,765	15,079	6.5
Fuel Oil	559	180	191	79	108	13,218	8,061	1,137	3,991	4,085	4,005	11.1
District Heat	95	14	24	18	39	5,339	3,299	552	1,466	1,562	1,758	16.8
District Chilled Water	28	Q	Q	6	20	2,066	1,650	Q	Q	702	988	22.4
Propane	337	107	106	46	78	3,393	1,388	556	1,556	608	674	16.7
Any Other	163	93	47	Q	14	1,551	424	435	724	Q	190	22.8

See footnotes at end of table.

Table A45. Percent of Floorspace Cooled, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	Not Cooled	Less than 51 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled	All Buildings	Total Cooled Floorspace in All Buildings	Not Cooled	Less than 51 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled	
	0.6	1.2	1.0	1.2	1.0	0.7	0.8	1.4	1.1	1.2	1.1	
Energy End Uses (more than one may apply)												
Heated Buildings	4,178	739	1,131	654	1,655	61,996	36,003	5,923	21,153	13,631	21,289	5.5
Air-Conditioned Buildings	3,502	Q	1,176	658	1,668	57,041	36,457	Q	21,715	13,872	21,454	5.4
Buildings with Water Heating	3,502	485	992	606	1,418	58,479	34,691	4,640	19,984	13,574	20,281	5.9
Buildings with Cooking	734	71	159	178	326	23,065	16,180	1,062	5,471	7,211	9,321	10.0
Buildings with Manufacturing	121	29	59	22	11	3,174	956	304	2,104	461	306	18.9
Climate Zone: 45-Year Average												
Fewer than 2,000 CDD and --												
More than 7,000 HDD	399	170	95	57	77	5,623	2,424	1,356	1,969	919	1,379	18.0
5,500-7,000 HDD	1,134	368	304	180	282	18,024	8,590	3,047	6,800	4,304	3,872	12.1
4,000-5,499 HDD	1,077	324	279	143	332	16,162	8,125	2,613	5,670	3,537	4,342	14.9
Fewer than 4,000 HDD	1,101	263	231	132	475	15,251	9,012	2,382	4,008	2,871	5,991	16.7
More than 2,000 CDD and --												
Fewer than 4,000 HDD	1,095	180	266	146	503	12,816	8,306	1,437	3,268	2,241	5,870	14.0
Predominant Exterior Wall Material												
Masonry	3,115	625	758	483	1,249	48,585	27,375	6,501	15,472	9,925	16,686	5.9
Siding or Shingles	764	291	121	117	236	3,873	1,852	1,248	849	707	1,068	10.6
Metal Panels	745	351	242	30	121	7,392	1,951	2,538	3,339	481	1,034	13.7
Concrete Panels	87	17	29	14	28	4,961	2,915	397	1,583	1,663	1,317	18.4
Window Glass	46	Q	Q	10	21	2,028	1,605	Q	Q	878	796	23.2
Other	47	Q	19	Q	13	1,037	759	Q	170	216	552	31.3
Predominant Roof Material												
Built-Up	1,642	323	436	256	627	30,257	17,289	3,853	9,401	6,321	10,682	7.3
Shingles (Not Wood)	1,381	357	252	214	559	10,570	5,908	1,965	2,933	2,082	3,591	9.0
Metal Surfacing	1,037	461	319	69	188	9,019	2,837	2,942	3,839	689	1,548	11.2
Synthetic or Rubber	386	67	103	64	151	11,702	7,641	809	3,097	3,812	3,984	10.7
Slate or Tile	155	42	18	27	67	1,998	1,033	390	543	408	656	18.6
Concrete	37	10	13	Q	10	2,544	728	635	1,367	225	318	31.8
Other	167	43	35	25	64	1,786	1,021	242	535	335	674	18.8
Floors												
One	3,007	942	658	301	1,106	25,424	12,555	5,572	8,053	3,336	8,463	8.0
Two	1,154	238	312	196	407	18,025	9,877	2,276	6,267	3,561	5,921	7.5
Three	446	92	137	115	102	9,877	5,172	1,255	3,359	2,580	2,684	10.7
Four to Nine	186	31	65	41	49	10,377	5,697	1,622	3,155	2,616	2,985	14.0
Ten or More	13	Q	3	4	5	4,173	3,156	Q	881	1,780	1,402	20.7
Percent Window Glass												
25 or Less	4,193	1,206	1,045	541	1,401	51,356	25,689	9,666	17,378	8,678	15,634	5.8
26 to 50	490	80	109	85	216	11,815	7,212	942	3,594	3,264	4,015	10.4
51 to 75	94	14	18	28	33	3,206	2,285	175	598	1,427	1,006	19.3
76 to 100	29	Q	Q	4	17	1,499	1,271	Q	Q	502	800	26.7
Workers (main shift)												
Less than 5	2,718	1,096	582	251	790	17,944	6,736	7,225	4,650	1,249	4,820	9.5
5 to 9	895	115	268	143	369	7,524	3,567	1,276	3,132	1,056	2,061	8.6
10 to 19	561	60	162	114	226	8,077	3,822	1,123	3,447	1,287	2,221	11.2
20 to 49	405	20	113	92	179	10,556	6,048	566	4,190	2,391	3,410	10.9
50 to 99	130	12	37	26	55	7,763	4,216	450	3,265	1,497	2,551	13.8
100 to 249	64	Q	12	18	33	7,378	4,869	Q	2,228	2,007	2,960	13.8
250 or More	31	Q	1	14	15	8,633	7,199	Q	804	4,386	3,430	14.6

See footnotes at end of table.

Table A45. Percent of Floorspace Cooled, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	Not Cooled	Less than 51 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled	All Buildings	Total Cooled Floorspace in All Buildings	Not Cooled	Less than 51 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled	
Weekly Operating Hours												
39 or Fewer	1,039	526	127	80	306	8,246	2,790	3,614	2,176	521	1,935	10.8
40 to 48	1,278	271	341	184	482	14,998	7,657	2,441	5,216	2,726	4,616	8.5
49 to 60	1,004	217	346	133	307	14,046	7,368	1,828	5,317	2,784	4,118	8.4
61 to 84	645	116	197	102	230	12,062	7,422	904	3,796	3,123	4,238	9.6
85 to 167	478	73	106	99	200	8,467	4,897	725	2,860	2,379	2,504	12.0
Open Continuously	362	100	59	60	142	10,057	6,324	1,324	2,351	2,340	4,043	14.7
Additional Operating Hours for Equipment Use												
Heating and/or Cooling	1,223	189	327	227	479	20,300	11,845	1,677	7,124	5,315	6,185	8.7
Lighting	633	109	172	128	224	12,886	8,014	860	4,003	3,781	4,243	10.1
Heating and/or Cooling and Lighting	371	35	98	89	149	8,717	5,561	367	2,753	2,670	2,927	14.2
No Additional Hours	3,320	1,041	775	391	1,114	43,407	22,159	8,666	13,341	7,447	13,953	7.0
Percent Vacant for at Least Three Months												
1-50 Percent	362	55	98	84	125	12,420	8,384	583	3,003	4,844	3,990	11.5
51-99 Percent	97	27	40	7	23	2,263	1,013	253	1,183	196	630	24.3
100 Percent	398	251	58	8	81	4,109	915	2,233	1,124	105	646	16.7
None	3,948	970	980	559	1,439	49,085	26,145	7,765	16,406	8,727	16,187	5.8
Cooling Energy Sources (more than one may apply)												
Electricity	3,404	Q	1,154	643	1,608	54,628	34,628	Q	21,068	13,370	20,191	5.5
Natural Gas	106	Q	31	17	59	1,906	1,535	Q	456	380	1,070	19.7
District Chilled Water	28	Q	Q	6	20	2,066	1,650	Q	Q	702	988	22.4
Percent of Floorspace Heated												
Not Heated	653	587	48	Q	15	6,211	460	5,144	657	Q	168	20.6
1 to 50	688	180	459	23	26	11,195	2,697	1,399	8,453	Q	517	13.6
51 to 99	618	81	149	337	51	10,211	6,034	657	2,745	6,041	767	11.0
100	2,846	456	520	294	1,576	40,260	27,266	3,635	9,860	6,764	20,001	6.3
Percent Lit when Open												
Not Lit	413	359	24	Q	25	3,280	314	2,501	562	Q	206	18.5
1 to 50	881	301	374	64	142	9,980	3,260	2,758	4,867	802	1,553	10.6
51 to 99	813	148	170	251	244	14,224	8,878	1,166	3,952	4,855	4,251	10.6
100	2,699	496	608	339	1,256	40,393	24,005	4,409	12,334	8,205	15,444	6.3
Cooling Equipment (more than one may apply)												
Residential-Type Central Air Conditioners	816	Q	259	168	389	9,021	5,284	Q	4,166	1,961	2,894	9.7
Heat Pumps	454	Q	111	79	263	8,406	5,451	Q	3,024	1,832	3,550	11.1
Individual Air Conditioners	1,023	Q	568	191	265	17,979	8,146	Q	10,452	3,767	3,761	11.2
District Chilled Water	28	Q	Q	6	20	2,066	1,650	Q	Q	702	988	22.4
Central Chillers	142	Q	20	46	76	12,991	10,863	Q	1,752	4,712	6,527	14.5
Packaged Air Conditioning Units	1,459	Q	346	317	796	27,830	19,229	Q	9,007	7,824	10,999	7.0
Swamp Coolers	179	Q	57	31	91	2,085	1,442	Q	659	652	774	25.1
Other	8	Q	Q	Q	Q	268	228	Q	Q	Q	Q	57.4

See footnotes at end of table.

Table A45. Percent of Floorspace Cooled, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	Not Cooled	Less than 51 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled	All Buildings	Total Cooled Floorspace in All Buildings	Not Cooled	Less than 51 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled	
	0.6	1.2	1.0	1.2	1.0	0.7	0.8	1.4	1.1	1.2	1.1	
Cooling Distribution Equipment (more than one may apply)												
Ducts for Cooling	2,733	Q	698	557	1,478	47,755	33,106	Q	15,366	12,367	20,022	5.7
Cooling Only	355	Q	147	68	140	8,283	5,165	Q	3,478	1,898	2,908	11.6
Heating and Cooling	2,378	Q	551	489	1,338	39,472	27,941	Q	11,888	10,469	17,115	5.9
Variable Air-Volume System Used	221	Q	38	50	134	12,430	10,197	Q	1,936	3,887	6,607	12.5
Fan Coil Units for Cooling	56	Q	17	14	25	3,875	2,914	Q	942	1,352	1,581	19.8
Cooling Only	35	Q	14	8	13	1,969	1,343	Q	699	574	697	30.7
Heating and Cooling	21	Q	Q	5	12	1,906	1,572	Q	Q	778	884	18.8
Individual Air Conditioners	1,023	Q	568	191	265	17,979	8,146	Q	10,452	3,767	3,761	11.2
Other	111	Q	45	23	44	2,919	2,202	Q	695	1,084	1,139	22.0
Building Shell Conservation Features (more than one may apply)												
Roof or Ceiling Insulation	3,343	616	835	531	1,362	50,311	30,272	5,124	15,497	11,573	18,116	5.6
Wall Insulation	2,320	412	549	356	1,004	33,240	21,638	2,963	8,977	7,713	13,588	6.8
Storm or Multiple Glazing	1,680	275	426	314	665	29,684	18,672	2,354	9,092	7,158	11,080	7.9
Tinted, Reflective or Shading Glass	1,068	91	261	195	521	25,396	17,541	1,046	6,787	7,107	10,456	9.3
Exterior or Interior Shading or Awnings	1,853	147	496	381	829	34,071	22,553	1,873	9,868	8,975	13,356	7.5
Windows that Open	2,119	604	568	277	670	28,937	13,930	4,971	10,559	5,478	7,929	7.3
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System	250	14	47	51	138	13,970	10,724	244	2,655	4,375	6,697	13.6
Economizer Cycle	414	Q	105	103	206	18,313	14,038	Q	4,005	6,384	7,924	10.8
HVAC Maintenance	2,503	327	663	427	1,086	49,173	30,641	3,338	15,589	11,979	18,267	6.4
Off-Hour Equipment Reduction (more than one may apply)												
Heating	3,400	596	964	517	1,323	46,248	26,342	4,322	16,548	10,204	15,174	5.5
Cooling	2,872	Q	1,001	535	1,335	42,768	26,905	Q	16,782	10,766	15,221	5.3
Hot Water	578	133	172	77	195	9,966	5,639	1,135	3,304	2,410	3,117	10.6
Lighting	4,089	922	1,090	580	1,498	54,944	29,637	7,602	18,829	11,369	17,144	5.1
Other	547	101	156	101	189	7,996	4,339	704	3,095	1,993	2,204	13.8
Energy Management Practices (more than one may apply)												
Energy Management and Control System	236	19	42	54	121	14,320	11,157	493	2,350	4,925	6,552	13.8
Demand-Side Management Participation	315	48	82	72	113	11,310	7,290	643	3,141	3,605	3,920	12.2
Energy Audit	521	97	134	107	184	14,779	8,810	1,143	4,763	4,251	4,622	10.1
Building Energy Manager	49	Q	7	14	22	2,311	1,606	Q	635	489	1,098	23.4

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A46. Percent of Floorspace Lit, Number of Buildings and Floorspace, 1992

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	Not Lit when Open	Less than 51 Percent Lit	51 to 99 Percent Lit	100 Percent Lit	All Buildings	Total Lit Floorspace in All Buildings	Not Lit when Open	Less than 51 Percent Lit	51 to 99 Percent Lit	100 Percent Lit	
	0.6	1.8	1.1	1.0	0.7	0.6	0.7	2.2	1.4	1.2	0.8	
RSE Column Factor:	0.6	1.8	1.1	1.0	0.7	0.6	0.7	2.2	1.4	1.2	0.8	
All Buildings	4,806	413	881	813	2,699	67,876	54,961	3,280	9,980	14,224	40,393	5.7
Building Floorspace (square feet)												
1,001 to 5,000	2,681	287	489	387	1,518	7,327	5,420	724	1,405	1,076	4,122	7.2
5,001 to 10,000	975	64	180	189	541	7,199	5,527	458	1,318	1,405	4,018	7.1
10,001 to 25,000	647	36	144	128	339	10,375	7,881	529	2,235	2,092	5,520	8.5
25,001 to 50,000	280	18	41	63	158	10,069	7,993	613	1,500	2,300	5,656	11.4
50,001 to 100,000	116	5	14	24	73	8,062	6,845	341	1,017	1,605	5,099	12.1
100,001 to 200,000	71	Q	11	13	46	9,678	8,154	Q	1,501	1,816	6,296	15.5
200,001 to 500,000	26	Q	2	5	19	7,889	7,025	Q	557	1,363	5,743	18.2
Over 500,000	9	Q	Q	Q	4	7,278	6,116	Q	Q	2,568	3,939	31.1
Principal Building Activity												
Education	301	Q	Q	56	238	8,470	8,119	Q	Q	2,044	6,284	11.9
Food Sales	130	Q	Q	Q	93	757	698	Q	Q	Q	591	23.6
Food Service	260	Q	28	52	180	1,491	1,257	Q	260	350	882	15.8
Health Care	63	Q	Q	19	38	1,763	1,688	Q	Q	351	1,368	20.9
Lodging	154	Q	26	27	100	2,891	2,563	Q	342	599	1,948	20.2
Mercantile and Service	1,272	Q	217	236	809	12,402	10,929	Q	1,274	2,759	8,335	10.1
Office	749	Q	77	197	475	12,319	11,170	Q	773	3,429	8,116	9.8
Parking Garage	24	Q	Q	Q	15	1,652	1,562	Q	Q	Q	1,454	40.5
Public Assembly	278	Q	90	58	128	4,556	3,517	Q	931	Q	1,806	17.1
Public Order and Safety	60	Q	Q	13	34	820	712	Q	Q	196	542	33.3
Religious Worship	366	Q	81	67	218	3,747	2,541	Q	1,446	799	1,503	16.9
Warehouse and Storage	761	168	241	50	303	11,484	8,353	756	2,928	1,266	6,535	11.9
Other	69	Q	Q	11	42	1,130	963	Q	Q	230	746	26.2
Vacant	319	221	63	Q	26	4,396	889	2,403	1,488	Q	282	16.6
Year Constructed												
1899 or Before	169	Q	61	41	55	1,721	1,088	Q	652	429	560	18.9
1900 to 1919	255	23	79	52	101	3,608	2,309	321	1,175	946	1,166	18.8
1920 to 1945	724	76	168	122	359	8,712	6,643	654	1,584	1,535	4,939	12.5
1946 to 1959	880	78	151	150	501	10,421	8,127	554	1,862	2,115	5,890	10.8
1960 to 1969	783	55	138	132	458	12,612	10,704	457	1,523	2,264	8,369	11.4
1970 to 1979	982	83	150	163	586	14,014	11,838	630	1,414	2,982	8,988	10.4
1980 to 1989	884	74	114	138	558	14,287	12,084	512	1,489	3,539	8,745	11.9
1990 to 1992	128	Q	20	15	82	2,502	2,167	Q	280	413	1,737	20.8
Census Region												
Northeast	771	46	170	171	384	13,400	11,215	454	1,763	3,098	8,085	12.1
Midwest	1,202	138	245	210	609	17,280	13,556	1,031	2,771	3,914	9,565	9.7
South	1,963	178	344	283	1,158	24,577	19,815	1,193	3,759	4,613	15,013	9.6
West	870	51	123	148	549	12,619	10,375	601	1,688	2,599	7,731	13.7
Energy Sources (more than one may apply)												
Electricity	4,616	223	881	813	2,699	66,549	54,961	1,952	9,980	14,224	40,393	5.7
Natural Gas	2,665	50	488	504	1,623	45,097	38,236	650	6,381	9,745	28,321	7.6
Fuel Oil	559	Q	118	115	310	13,218	11,487	Q	1,382	3,202	8,401	12.4
District Heat	95	Q	11	23	61	5,339	4,747	Q	336	1,119	3,704	19.4
District Chilled Water	28	Q	Q	5	20	2,066	1,819	Q	Q	394	1,444	25.7
Propane	337	Q	54	52	214	3,393	2,868	Q	484	571	2,263	18.8
Any Other	163	Q	48	28	74	1,551	1,196	Q	351	320	832	23.1

See footnotes at end of table.

Table A46. Percent of Floorspace Lit, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	Not Lit when Open	Less than 51 Percent Lit	51 to 99 Percent Lit	100 Percent Lit	All Buildings	Total Lit Floorspace in All Buildings	Not Lit when Open	Less than 51 Percent Lit	51 to 99 Percent Lit	100 Percent Lit	
	0.6	1.8	1.1	1.0	0.7	0.6	0.7	2.2	1.4	1.2	0.8	
RSE Column Factor:	0.6	1.8	1.1	1.0	0.7	0.6	0.7	2.2	1.4	1.2	0.8	RSE Row Factor
Energy End Uses (more than one may apply)												
Heated Buildings	4,178	103	760	780	2,536	61,996	52,476	1,047	8,527	13,822	38,601	6.1
Air-Conditioned Buildings	3,502	54	580	665	2,203	57,041	48,813	779	7,222	13,058	35,984	6.7
Buildings with Water Heating	3,502	67	605	663	2,167	58,479	49,962	819	7,515	13,540	36,604	6.6
Buildings with Cooking	734	Q	111	154	463	23,065	20,477	Q	2,094	6,377	14,526	10.2
Buildings with Manufacturing	121	Q	27	17	73	3,174	2,592	Q	565	765	1,815	21.4
Floors												
One	3,007	326	458	404	1,819	25,424	20,399	1,785	3,324	4,357	15,957	8.3
Two	1,154	61	262	234	598	18,025	14,363	560	3,554	3,789	10,121	8.1
Three	446	21	117	112	196	9,877	8,051	312	1,481	2,575	5,509	12.0
Four to Nine	186	Q	44	59	80	10,377	8,564	Q	1,477	2,355	6,259	15.3
Ten or More	13	Q	1	4	8	4,173	3,585	Q	143	1,147	2,546	24.4
Percent Window Glass												
25 or Less	4,193	391	803	688	2,311	51,356	40,844	2,677	8,465	9,946	30,268	6.1
26 to 50	490	14	69	103	305	11,815	9,854	514	1,281	3,260	6,759	12.7
51 to 75	94	Q	5	21	63	3,206	2,868	Q	137	866	2,131	19.2
76 to 100	29	Q	Q	1	21	1,499	1,395	Q	Q	152	1,234	31.1
Workers (main shift)												
Less than 5	2,718	407	665	352	1,294	17,944	10,700	3,185	4,775	2,779	7,205	9.3
5 to 9	895	Q	136	180	577	7,524	5,898	Q	1,914	1,518	4,086	9.0
10 to 19	561	Q	49	128	381	8,077	6,674	Q	1,433	1,604	4,986	11.6
20 to 49	405	Q	20	103	281	10,556	9,552	Q	806	2,723	6,994	10.0
50 to 99	130	Q	7	27	96	7,763	7,137	Q	578	1,496	5,689	17.3
100 to 249	64	Q	Q	14	47	7,378	6,807	Q	Q	2,007	5,072	15.6
250 or More	31	Q	Q	8	24	8,633	8,193	Q	Q	2,097	6,361	14.4
Weekly Operating Hours												
39 or Fewer	1,039	332	172	126	408	8,246	4,210	2,853	1,482	1,002	2,910	10.5
40 to 48	1,278	Q	261	245	759	14,998	12,330	Q	2,803	2,993	9,094	8.7
49 to 60	1,004	29	192	187	595	14,046	11,784	129	2,242	3,107	8,568	9.2
61 to 84	645	Q	108	124	402	12,062	10,503	Q	1,413	3,021	7,562	10.9
85 to 167	478	Q	91	79	301	8,467	7,213	Q	1,267	1,760	5,406	12.9
Open Continuously	362	18	58	51	234	10,057	8,922	88	774	2,342	6,853	16.6
Additional Operating Hours for Equipment Use												
Heating and/or Cooling	1,223	Q	188	255	766	20,300	17,709	Q	2,565	4,855	12,832	9.6
Lighting	633	38	119	134	342	12,886	11,044	222	1,559	2,960	8,145	12.0
Heating and/or Cooling and Lighting	371	Q	54	83	228	8,717	7,758	Q	809	2,221	5,666	16.5
No Additional Hours	3,320	367	628	507	1,819	43,407	33,966	3,030	6,665	8,630	25,082	7.4
Percent Vacant for at Least Three Months												
1-50 Percent	362	Q	97	102	148	12,420	10,623	Q	1,290	4,459	6,601	11.9
51-99 Percent	97	Q	59	12	18	2,263	1,084	Q	1,460	259	492	25.1
100 Percent	398	226	31	21	120	4,109	1,407	2,418	344	265	1,081	16.2
None	3,948	163	694	678	2,413	49,085	41,847	740	6,886	9,240	32,219	6.9
Percent of Floorspace Heated												
Not Heated	653	315	130	36	172	6,211	2,653	2,327	1,540	Q	1,929	14.9
1 to 50	688	29	344	66	249	11,195	7,944	214	3,942	1,325	5,714	13.5
51 to 99	618	Q	83	255	267	10,211	8,654	Q	857	4,535	4,742	10.3
100	2,846	55	325	456	2,011	40,260	35,711	661	3,641	7,951	28,007	7.6

See footnotes at end of table.

Table A46. Percent of Floorspace Lit, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	Not Lit when Open	Less than 51 Percent Lit	51 to 99 Percent Lit	100 Percent Lit	All Buildings	Total Lit Floorspace in All Buildings	Not Lit when Open	Less than 51 Percent Lit	51 to 99 Percent Lit	100 Percent Lit	
Percent of Floorspace Cooled												
Not Cooled	1,304	359	301	148	496	10,835	6,148	2,501	2,758	1,166	4,409	10.1
1 to 50	1,176	24	374	170	608	21,715	17,015	562	4,867	3,952	12,334	9.4
51 to 99	658	Q	64	251	339	13,872	12,431	Q	802	4,855	8,205	10.4
100	1,668	25	142	244	1,256	21,454	19,367	206	1,553	4,251	15,444	10.6
Percent Lit when Closed												
Not Lit	2,987	354	637	426	1,569	34,486	25,923	2,523	6,752	6,252	18,959	7.3
1 to 50	1,689	25	242	372	1,051	31,482	27,418	530	3,206	7,685	20,061	8.0
51 to 99	43	Q	Q	13	25	1,021	952	Q	Q	282	715	27.9
100	87	30	Q	Q	54	887	669	209	Q	Q	658	22.9
Lighting Equipment Types (more than one may apply)												
Incandescent	2,509	26	567	509	1,408	39,221	32,488	391	6,575	9,350	22,906	7.5
Standard Fluorescent	4,065	48	780	771	2,467	62,074	52,649	675	8,848	13,892	38,658	6.4
Compact Fluorescent	206	Q	25	65	117	8,336	7,539	Q	547	2,410	5,378	15.5
High-Intensity Discharge	354	Q	47	65	239	17,570	16,001	Q	1,410	3,782	12,324	11.2
Other	78	Q	17	14	47	1,612	1,356	Q	295	418	900	28.2
Building Shell Conservation Features (more than one may apply)												
Roof or Ceiling Insulation	3,343	144	559	648	1,993	50,311	42,187	1,341	6,538	11,864	30,567	6.4
Wall Insulation	2,320	100	393	418	1,410	33,240	28,144	768	4,032	8,261	20,179	7.1
Storm or Multiple Glazing	1,680	59	319	349	953	29,684	25,181	481	3,727	7,851	17,625	8.3
Tinted, Reflective or Shading Glass	1,068	27	165	235	642	25,396	21,954	554	2,339	6,875	15,628	10.4
Exterior or Interior Shading or Awnings	1,853	38	296	388	1,131	34,071	29,426	618	3,586	8,583	21,285	8.0
Windows that Open	2,119	127	447	374	1,171	28,937	23,130	1,113	5,175	5,954	16,696	7.9
Lighting Conservation Features (more than one may apply)												
Specular Reflectors	574	Q	74	136	357	15,241	13,572	Q	1,373	3,215	10,477	11.3
Natural Lighting Control Sensors	74	Q	11	21	42	3,072	2,672	Q	246	966	1,826	20.7
Occupancy Sensors	59	Q	7	13	38	3,629	3,234	Q	Q	1,105	2,185	18.3
Time Clock	339	Q	59	88	187	12,104	10,522	Q	1,100	3,789	7,131	15.4
Manual Dimmer Switches	413	Q	85	109	219	12,329	10,595	Q	1,640	3,152	7,522	12.4
Other	78	Q	Q	31	42	2,596	2,378	Q	Q	902	1,570	19.9
Off-Hour Equipment Reduction (more than one may apply)												
Heating	3,400	67	645	648	2,040	46,248	38,940	549	7,112	10,292	28,295	6.0
Cooling	2,872	41	498	562	1,771	42,768	36,366	376	6,132	9,896	26,364	6.6
Hot Water	578	30	84	114	350	9,966	8,635	261	941	2,617	6,147	11.1
Lighting	4,089	101	802	752	2,434	54,944	45,536	931	9,075	11,767	33,171	5.7
Other	547	Q	82	121	338	7,996	6,890	Q	1,117	1,611	5,205	15.4

See footnotes at end of table.

Table A46. Percent of Floorspace Lit, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	Not Lit when Open	Less than 51 Percent Lit	51 to 99 Percent Lit	100 Percent Lit	All Buildings	Total Lit Floorspace in All Buildings	Not Lit when Open	Less than 51 Percent Lit	51 to 99 Percent Lit	100 Percent Lit	
RSE Column Factor:	0.6	1.8	1.1	1.0	0.7	0.6	0.7	2.2	1.4	1.2	0.8	
Energy Management Practices (more than one may apply)												
Energy Management and Control System	236	Q	14	58	163	14,320	13,263	Q	344	4,429	9,522	14.4
Demand-Side Management Participation	315	Q	48	90	177	11,310	10,083	Q	1,018	3,058	7,232	12.9
Energy Audit	521	Q	76	121	321	14,779	13,066	Q	1,312	3,996	9,411	11.4
Building Energy Manager	49	Q	Q	9	36	2,311	2,016	Q	Q	348	1,688	25.0

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A47. Heating Equipment, Number of Buildings, 1992
(Thousand)

Building Characteristics	All Buildings	All Heated Buildings	Heating Equipment (more than one may apply)							RSE Row Factor
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other	
RSE Column Factor:	0.5	0.5	1.3	0.8	0.8	1.7	0.9	1.0	3.1	
All Buildings	4,806	4,178	449	1,692	1,464	93	624	870	42	6.7
Building Floorspace (square feet)										
1,001 to 5,000	2,681	2,247	198	1,002	812	18	165	396	28	10.5
5,001 to 10,000	975	883	121	387	287	11	145	190	Q	10.2
10,001 to 25,000	647	585	71	193	210	28	135	162	Q	9.6
25,001 to 50,000	280	255	30	72	84	15	91	62	Q	13.2
50,001 to 100,000	116	110	13	20	38	9	43	36	Q	12.6
100,001 to 200,000	71	64	10	14	21	6	28	16	Q	16.6
200,001 to 500,000	26	24	4	4	9	5	12	6	Q	18.9
Over 500,000	9	9	2	1	4	1	4	3	Q	33.9
Principal Building Activity										
Education	301	295	36	78	67	20	91	77	Q	14.8
Food Sales	130	120	Q	28	40	Q	Q	30	Q	26.6
Food Service	260	249	Q	102	50	Q	34	100	Q	15.7
Health Care	63	61	11	27	7	2	9	14	Q	29.4
Lodging	154	150	22	33	72	9	36	20	Q	21.0
Mercantile and Service	1,272	1,214	90	548	497	9	141	220	Q	10.8
Office	749	745	109	321	162	24	118	189	7	11.1
Parking Garage	24	17	Q	Q	12	Q	Q	Q	Q	47.0
Public Assembly	278	257	35	108	93	10	43	46	Q	15.0
Public Order and Safety	60	60	Q	26	19	Q	17	Q	Q	31.6
Religious Worship	366	364	37	188	125	Q	58	55	Q	18.0
Warehouse and Storage	761	445	38	168	235	Q	39	76	Q	14.7
Other	69	48	Q	13	23	4	11	13	Q	29.5
Vacant	319	154	23	45	62	2	20	21	Q	19.5
Year Constructed										
1899 or Before	169	158	Q	74	61	4	53	Q	Q	22.6
1900 to 1919	255	232	Q	104	65	10	70	20	Q	18.7
1920 to 1945	724	623	34	285	230	12	128	84	Q	13.4
1946 to 1959	880	760	44	358	258	22	127	137	Q	12.2
1960 to 1969	783	687	58	282	259	22	107	136	Q	12.0
1970 to 1979	982	850	112	324	305	9	79	219	13	11.3
1980 to 1989	884	761	155	244	249	11	48	228	8	12.5
1990 to 1992	128	107	23	21	36	Q	12	33	Q	29.4
Census Region										
Northeast	771	694	41	290	218	23	260	86	12	12.7
Midwest	1,202	1,047	28	592	376	23	188	121	11	13.3
South	1,963	1,687	280	557	626	27	111	440	15	12.2
West	870	750	99	252	245	20	65	223	Q	17.0
Energy Sources (more than one may apply)										
Electricity	4,616	4,173	449	1,692	1,460	93	624	870	42	6.7
Natural Gas	2,665	2,627	137	1,259	886	34	444	605	23	8.5
Fuel Oil	559	554	26	265	189	11	220	29	6	16.7
District Heat	95	95	8	Q	15	93	Q	2	Q	21.2
District Chilled Water	28	28	Q	Q	3	24	Q	Q	Q	28.5
Propane	337	330	34	134	188	Q	35	36	Q	23.8
Any Other	163	161	Q	56	110	Q	21	Q	Q	23.6

See footnotes at end of table.

Table A47. Heating Equipment, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	All Heated Buildings	Heating Equipment (more than one may apply)							RSE Row Factor
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other	
RSE Column Factor:	0.5	0.5	1.3	0.8	0.8	1.7	0.9	1.0	3.1	
Energy End Uses (more than one may apply)										
Heated Buildings	4,178	4,178	449	1,692	1,464	93	624	870	42	6.7
Air-Conditioned Buildings	3,502	3,439	443	1,391	1,081	80	509	855	36	7.0
Buildings with Water Heating	3,502	3,436	404	1,433	1,097	80	600	771	40	6.9
Buildings with Cooking	734	715	79	259	180	18	178	216	18	10.3
Buildings with Manufacturing	121	117	16	47	64	5	21	23	Q	23.1
Climate Zone: 45-Year Average										
Fewer than 2,000 CDD and --										
More than 7,000 HDD	399	344	12	162	134	10	99	31	Q	23.4
5,500-7,000 HDD	1,134	1,018	31	525	352	28	272	125	11	14.6
4,000-5,499 HDD	1,077	959	127	459	331	27	156	97	Q	21.9
Fewer than 4,000 HDD	1,101	955	148	294	345	13	61	297	Q	22.1
More than 2,000 CDD and --										
Fewer than 4,000 HDD	1,095	903	131	251	302	15	36	319	Q	19.2
Predominant Exterior Wall Material										
Masonry	3,115	2,850	306	1,136	860	75	498	650	33	6.9
Siding or Shingles	764	635	50	308	264	Q	76	93	Q	14.6
Metal Panels	745	533	71	204	285	6	24	73	Q	17.4
Concrete Panels	87	76	14	12	28	7	14	32	Q	21.5
Window Glass	46	41	Q	9	14	1	8	13	Q	33.3
Other	47	42	Q	23	14	Q	Q	9	Q	39.2
Predominant Roof Material										
Built-Up	1,642	1,489	162	560	457	39	247	392	21	7.7
Shingles (Not Wood)	1,381	1,246	117	619	412	10	177	179	Q	11.3
Metal Surfacing	1,037	763	103	296	381	10	37	125	Q	15.7
Synthetic or Rubber	386	368	30	115	126	14	102	105	6	14.2
Slate or Tile	155	140	Q	46	35	13	29	28	Q	21.1
Concrete	37	22	Q	Q	9	Q	4	5	Q	46.0
Other	167	150	14	54	43	Q	27	35	Q	26.2
Percent Window Glass										
25 or Less	4,193	3,597	392	1,507	1,295	74	473	701	39	7.3
26 to 50	490	464	45	149	132	15	121	135	Q	11.3
51 to 75	94	89	9	27	28	3	24	29	Q	25.4
76 to 100	29	27	Q	Q	10	1	7	5	Q	33.9
Workers (main shift)										
Less than 5	2,718	2,154	199	912	846	22	211	305	Q	10.3
5 to 9	895	861	96	407	281	14	119	188	Q	10.5
10 to 19	561	540	59	210	158	21	95	169	Q	12.0
20 to 49	405	401	61	120	113	16	111	133	Q	11.2
50 to 99	130	128	17	30	41	10	43	46	Q	14.1
100 to 249	64	64	10	10	17	4	29	21	Q	15.7
250 or More	31	30	6	3	9	7	15	8	1	17.4
Weekly Operating Hours										
39 or Fewer	1,039	725	52	333	257	9	96	104	Q	14.5
40 to 48	1,278	1,186	150	474	401	34	165	240	Q	10.0
49 to 60	1,004	920	101	402	357	16	133	170	Q	9.7
61 to 84	645	603	54	226	201	9	103	158	Q	10.8
85 to 167	478	436	49	173	117	7	60	140	Q	13.9
Open Continuously	362	307	44	84	130	19	67	58	Q	13.5

See footnotes at end of table.

Table A47. Heating Equipment, Number of Buildings, 1992 (Continued)

(Thousand)

Building Characteristics	All Buildings	All Heated Buildings	Heating Equipment (more than one may apply)							RSE Row Factor
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other	
RSE Column Factor:	0.5	0.5	1.3	0.8	0.8	1.7	0.9	1.0	3.1	
Energy-Related Space Functions (more than one may apply)										
Commercial Food Preparation	735	714	79	259	180	18	176	217	18	10.3
Computer Room	223	222	22	63	70	11	78	66	6	15.3
Rooms with Special Ventilation	236	229	28	75	77	17	58	64	Q	16.0
Activities with Large Amounts of Hot Water	203	194	22	66	76	6	58	51	Q	14.0
Multibuilding Facility										
Part of Multibuilding Facility	1,667	1,338	167	434	466	81	214	277	9	10.1
with Central Physical Plant	223	208	28	32	48	80	39	29	Q	19.6
No Central Physical Plant	1,444	1,130	139	403	418	1	175	248	9	11.9
Not on Multibuilding Facility	3,139	2,840	282	1,258	998	12	410	593	34	8.2
Space-Heating Energy Source (more than one may apply)										
Electricity	1,513	1,513	444	403	668	16	116	407	19	9.6
Natural Gas	2,405	2,405	98	1,218	819	5	419	535	22	9.3
Fuel Oil	479	479	17	251	151	3	199	13	Q	20.8
District Heat	94	94	8	Q	14	93	Q	2	Q	21.5
Propane	255	255	18	108	162	Q	16	Q	Q	25.4
Wood	102	102	Q	Q	81	Q	Q	Q	Q	29.6
Any Other	39	39	Q	Q	Q	Q	Q	Q	Q	69.4
Primary Space-Heating Energy Source										
Electricity	1,107	1,107	362	205	384	Q	33	331	18	10.9
Natural Gas	2,276	2,276	60	1,162	753	2	393	507	19	10.1
Fuel Oil	394	394	10	209	114	Q	170	Q	Q	21.0
District Heat	91	91	7	Q	14	91	Q	2	Q	22.1
Propane	217	217	Q	92	134	Q	Q	Q	Q	28.3
Wood	68	68	Q	Q	53	Q	Q	Q	Q	36.9
Any Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Replacement Energy Source for Primary Heating										
Electricity Only	350	350	Q	201	143	Q	17	67	Q	17.4
Natural Gas Only	213	213	46	56	86	6	37	37	Q	20.3
Fuel Oil Only	161	161	12	65	55	6	63	20	Q	20.5
Propane Only	212	212	Q	107	85	Q	29	26	Q	23.1
Any Other Single Energy Source	57	57	Q	33	29	Q	Q	Q	Q	27.2
More than One Energy Source	93	93	Q	55	36	Q	Q	Q	Q	28.3
Percent of Floorspace Heated										
Not Heated	653	25	Q	Q	Q	Q	Q	Q	Q	25.9
1 to 50	688	688	74	241	352	4	47	96	Q	14.2
51 to 99	618	618	68	267	210	9	93	166	Q	12.6
100	2,846	2,846	307	1,184	902	80	484	608	36	7.4
Heating Equipment (more than one may apply)										
Heat Pumps	449	449	449	60	100	8	21	40	Q	16.0
Furnaces	1,692	1,692	60	1,692	428	Q	84	62	Q	9.9
Individual Space Heaters	1,464	1,464	100	428	1,464	14	128	158	12	10.4
District Heat	93	93	8	Q	14	93	Q	2	Q	21.5
Boilers	624	624	21	84	128	Q	624	44	4	10.7
Packaged Heating Units	870	870	40	62	158	2	44	870	Q	15.5
Other	42	42	Q	Q	12	Q	4	Q	42	29.7

See footnotes at end of table.

Table A47. Heating Equipment, Number of Buildings, 1992 (Continued)

(Thousand)

Building Characteristics	All Buildings	All Heated Buildings	Heating Equipment (more than one may apply)							RSE Row Factor
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other	
RSE Column Factor:	0.5	0.5	1.3	0.8	0.8	1.7	0.9	1.0	3.1	
Heating Distribution Equipment (more than one may apply)										
Radiators or Baseboards	473	473	10	56	96	47	426	23	Q	13.3
Ducts for Heating	2,955	2,955	431	1,619	659	50	281	849	33	7.1
Heating Only	577	577	Q	505	150	5	71	27	Q	15.9
Heating and Cooling	2,378	2,378	427	1,114	509	45	210	822	28	7.7
Variable Air-Volume System Used	210	210	19	74	42	13	50	83	5	14.4
Fan Coil Units for Heating	99	99	20	7	22	16	67	9	Q	19.2
Heating Only	78	78	19	Q	19	11	52	8	Q	21.5
Heating and Cooling	21	21	Q	Q	3	5	15	2	Q	31.3
Individual Space Heaters	1,464	1,464	100	428	1,464	14	128	158	12	10.4
Other	181	181	16	111	43	Q	48	36	Q	20.9
Cooling Equipment (more than one may apply)										
Residential-Type Central Air Conditioners	816	811	35	624	247	11	103	64	Q	15.3
Heat Pumps	454	453	427	66	98	8	27	40	Q	15.9
Individual Air Conditioners	1,023	1,001	51	377	526	25	263	88	Q	10.9
District Chilled Water	28	28	Q	Q	3	24	Q	Q	Q	28.5
Central Chillers	142	141	11	15	34	14	100	24	3	16.8
Packaged Air-Conditioning Units	1,459	1,426	57	474	338	24	182	780	16	9.7
Swamp Coolers	179	172	Q	69	75	Q	19	38	Q	34.0
Other	8	8	Q	Q	Q	Q	Q	Q	Q	84.4
Building Shell Conservation Features (more than one may apply)										
Roof or Ceiling Insulation	3,343	3,164	393	1,323	1,057	65	487	692	33	7.2
Wall Insulation	2,320	2,206	304	946	744	39	269	484	29	8.6
Storm or Multiple Glazing	1,680	1,642	195	776	513	37	354	278	14	9.2
Tinted, Reflective or Shading Glass	1,068	1,018	152	415	272	22	144	316	13	10.0
Exterior or Interior Shading or Awnings	1,853	1,804	253	727	527	47	292	475	23	8.6
Windows that Open	2,119	1,932	183	804	732	57	390	268	16	9.6
HVAC Conservation Features (more than one may apply)										
Variable Air-Volume System	250	249	19	75	64	19	65	83	5	13.5
Economizer Cycle	414	408	76	112	121	26	99	123	13	12.6
HVAC Maintenance	2,503	2,473	292	995	698	84	484	580	23	7.4
Off-Hour Equipment Reduction (more than one may apply)										
Heating	3,400	3,400	335	1,437	1,187	61	477	721	30	7.2
Cooling	2,872	2,821	328	1,191	881	59	388	712	27	7.4
Hot Water	578	557	64	199	154	13	127	131	Q	13.6
Lighting	4,089	3,768	392	1,575	1,289	73	546	795	36	7.0
Other	547	523	43	215	200	6	88	122	Q	17.1

NF = No applicable RSE row factor.

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A48. Heating Equipment, Floorspace, 1992
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Heated Buildings	Heating Equipment (more than one may apply)							RSE Row Factor
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other	
RSE Column Factor:	0.6	0.6	1.2	0.9	0.8	1.5	0.9	1.0	2.5	
All Buildings	67,876	61,996	8,269	16,909	22,380	5,225	20,664	16,000	903	6.8
Building Floorspace (square feet)										
1,001 to 5,000	7,327	6,210	542	2,780	2,291	56	511	1,116	74	10.8
5,001 to 10,000	7,199	6,533	899	2,816	2,153	73	1,100	1,415	Q	9.7
10,001 to 25,000	10,375	9,424	1,159	3,131	3,305	443	2,210	2,667	Q	9.3
25,001 to 50,000	10,069	9,132	1,119	2,559	2,942	516	3,351	2,168	Q	13.0
50,001 to 100,000	8,062	7,622	932	1,352	2,681	624	3,037	2,509	Q	12.2
100,001 to 200,000	9,678	8,730	1,433	1,860	2,793	777	3,879	2,126	Q	15.9
200,001 to 500,000	7,889	7,470	1,012	1,075	2,934	1,521	3,477	1,603	Q	18.6
Over 500,000	7,278	6,876	1,172	1,337	3,281	1,215	3,098	2,396	Q	30.3
Principal Building Activity										
Education	8,470	8,379	609	973	1,922	641	5,430	1,725	Q	15.1
Food Sales	757	723	Q	228	305	Q	Q	231	Q	27.0
Food Service	1,491	1,435	Q	539	260	Q	343	507	Q	17.6
Health Care	1,763	1,746	362	129	360	403	1,034	395	Q	19.1
Lodging	2,891	2,870	696	409	1,068	580	912	733	Q	22.8
Mercantile and Service	12,402	11,835	1,501	4,948	4,860	148	2,105	4,219	Q	16.2
Office	12,319	12,255	1,937	2,490	3,582	1,706	4,393	2,979	267	11.0
Parking Garage	1,652	1,165	Q	Q	718	Q	Q	Q	Q	51.1
Public Assembly	4,556	4,470	516	910	1,197	348	2,076	702	Q	24.5
Public Order and Safety	820	820	Q	252	249	Q	398	Q	Q	41.0
Religious Worship	3,747	3,737	368	1,909	1,184	Q	1,294	536	Q	21.0
Warehouse and Storage	11,484	8,800	1,633	2,953	4,878	Q	1,624	3,001	Q	17.1
Other	1,130	1,025	Q	254	453	326	321	381	Q	28.0
Vacant	4,396	2,738	248	754	1,344	393	451	450	Q	28.3
Year Constructed										
1899 or Before	1,721	1,637	Q	511	530	91	852	Q	Q	22.1
1900 to 1919	3,608	3,329	Q	1,043	1,286	255	1,644	536	Q	27.0
1920 to 1945	8,712	7,717	619	2,659	2,345	1,125	2,541	1,271	Q	19.6
1946 to 1959	10,421	9,371	1,013	3,131	3,173	545	3,926	1,740	Q	14.6
1960 to 1969	12,612	11,548	1,055	3,367	3,862	1,363	4,027	3,226	Q	16.0
1970 to 1979	14,014	12,814	1,783	2,982	5,434	972	3,734	3,911	231	10.9
1980 to 1989	14,287	13,276	2,962	2,894	4,983	673	3,396	4,306	309	14.6
1990 to 1992	2,502	2,303	534	323	768	202	544	893	Q	20.5
Census Region										
Northeast	13,400	12,858	1,328	3,268	4,907	1,553	6,192	2,890	180	14.4
Midwest	17,280	16,303	1,324	5,579	6,187	1,869	6,478	3,033	205	12.4
South	24,577	21,659	3,632	4,971	7,642	927	5,404	6,440	309	11.1
West	12,619	11,176	1,985	3,092	3,643	875	2,590	3,637	Q	13.4
Energy Sources (more than one may apply)										
Electricity	66,549	61,971	8,269	16,909	22,369	5,225	20,664	16,000	903	6.8
Natural Gas	45,097	44,624	4,675	14,343	16,295	2,721	17,039	12,908	678	8.0
Fuel Oil	13,218	12,933	1,579	2,239	4,695	1,241	7,856	1,974	359	10.9
District Heat	5,339	5,324	450	Q	1,192	5,225	Q	279	Q	16.9
District Chilled Water	2,066	2,063	Q	Q	650	1,702	Q	Q	Q	25.7
Propane	3,393	3,340	707	826	1,584	Q	1,067	855	Q	19.6
Any Other	1,551	1,522	Q	480	655	Q	459	Q	Q	30.8

See footnotes at end of table.

Table A48. Heating Equipment, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Heated Buildings	Heating Equipment (more than one may apply)							RSE Row Factor
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other	
RSE Column Factor:	0.6	0.6	1.2	0.9	0.8	1.5	0.9	1.0	2.5	
Energy End Uses (more than one may apply)										
Heated Buildings	61,996	61,996	8,269	16,909	22,380	5,225	20,664	16,000	903	6.8
Air-Conditioned Buildings	57,041	56,073	8,207	15,209	19,667	4,708	19,086	15,870	845	7.2
Buildings with Water Heating	58,479	57,708	7,995	15,734	20,270	5,081	20,447	15,348	894	7.0
Buildings with Cooking	23,065	22,736	2,871	4,459	7,233	2,198	11,342	6,349	513	11.1
Buildings with Manufacturing	3,174	3,121	620	826	1,804	412	1,131	1,059	Q	25.4
Climate Zone: 45-Year Average										
Fewer than 2,000 CDD and --										
More than 7,000 HDD	5,623	5,218	437	1,920	1,736	513	2,118	609	Q	22.6
5,500-7,000 HDD	18,024	17,196	1,282	5,075	6,624	1,900	7,706	3,756	277	13.8
4,000-5,499 HDD	16,162	14,966	2,459	4,763	5,781	1,692	5,136	2,987	Q	16.5
Fewer than 4,000 HDD	15,251	13,537	2,501	3,217	4,508	560	3,341	4,836	Q	18.9
More than 2,000 CDD and --										
Fewer than 4,000 HDD	12,816	11,079	1,590	1,935	3,730	560	2,363	3,812	Q	18.7
Predominant Exterior Wall Material										
Masonry	48,585	45,520	5,863	11,739	14,669	3,669	16,840	11,586	598	7.7
Siding or Shingles	3,873	3,303	413	1,460	1,485	Q	725	546	Q	14.5
Metal Panels	7,392	5,682	1,182	2,246	3,203	331	740	1,149	Q	19.1
Concrete Panels	4,961	4,663	575	1,063	1,942	699	1,379	2,009	Q	25.3
Window Glass	2,028	1,839	202	183	788	Q	695	395	Q	27.7
Other	1,037	988	Q	218	292	Q	287	Q	Q	37.7
Predominant Roof Material										
Built-Up	30,257	28,271	3,873	6,443	9,232	2,346	10,393	8,536	441	9.9
Shingles (Not Wood)	10,570	9,764	1,068	4,091	3,083	459	2,570	1,586	Q	13.6
Metal Surfacing	9,019	7,121	1,231	2,786	3,518	306	751	1,476	Q	15.8
Synthetic or Rubber	11,702	11,541	1,385	2,476	4,653	1,470	5,013	3,518	291	14.5
Slate or Tile	1,998	1,863	Q	539	513	400	633	284	Q	25.0
Concrete	2,544	1,741	Q	Q	845	Q	688	160	Q	44.3
Other	1,786	1,695	437	414	535	Q	616	439	Q	27.6
Percent Window Glass										
25 or Less	51,356	45,868	5,874	13,831	16,789	3,044	13,633	11,684	597	7.4
26 to 50	11,815	11,493	2,022	2,576	3,710	1,349	4,994	3,346	Q	14.7
51 to 75	3,206	3,185	293	364	1,340	473	1,498	768	Q	19.2
76 to 100	1,499	1,450	80	Q	540	Q	539	201	Q	29.7
Workers (main shift)										
Less than 5	17,944	13,604	1,219	4,981	5,455	396	2,755	1,694	Q	16.7
5 to 9	7,524	7,075	812	2,917	2,569	314	1,516	1,372	Q	11.6
10 to 19	8,077	7,528	938	2,488	2,655	487	1,831	1,992	Q	13.5
20 to 49	10,556	10,440	1,408	2,590	3,314	500	3,784	3,380	Q	11.4
50 to 99	7,763	7,652	1,161	2,133	2,638	785	2,882	2,406	Q	17.1
100 to 249	7,378	7,323	1,327	800	2,610	674	3,911	2,689	Q	19.9
250 or More	8,633	8,374	1,404	1,001	3,138	2,070	3,984	2,466	186	17.7
Weekly Operating Hours										
39 or Fewer	8,246	6,000	353	2,241	2,076	332	1,829	784	Q	18.5
40 to 48	14,998	13,745	1,904	3,794	4,460	792	4,262	3,548	Q	10.2
49 to 60	14,046	13,251	1,852	4,053	5,593	1,051	4,104	3,166	Q	11.1
61 to 84	12,062	11,529	1,683	3,019	4,165	695	3,636	3,832	Q	14.4
85 to 167	8,467	8,141	900	2,682	2,717	504	2,639	2,932	Q	18.3
Open Continuously	10,057	9,329	1,578	1,121	3,368	1,850	4,194	1,737	Q	17.1

See footnotes at end of table.

Table A48. Heating Equipment, Floorspace, 1992 (Continued)

(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Heated Buildings	Heating Equipment (more than one may apply)							RSE Row Factor
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other	
RSE Column Factor:	0.6	0.6	1.2	0.9	0.8	1.5	0.9	1.0	2.5	
Energy-Related Space Functions (more than one may apply)										
Commercial Food Preparation	22,166	21,833	2,871	4,459	7,233	2,198	10,439	6,349	513	10.3
Computer Room	14,199	14,170	2,290	2,291	5,158	2,070	6,599	4,384	418	12.7
Rooms with Special Ventilation	8,042	7,995	1,054	1,261	2,902	1,592	3,915	1,773	Q	13.7
Activities with Large Amounts of Hot Water	6,862	6,829	1,470	1,300	2,580	783	3,490	2,137	Q	14.8
Multibuilding Facility										
Part of Multibuilding Facility	31,564	28,365	3,949	5,908	10,324	4,403	9,877	7,405	364	11.5
with Central Physical Plant	8,395	8,088	744	1,166	2,547	4,150	2,306	1,219	Q	21.6
No Central Physical Plant	23,170	20,277	3,205	4,743	7,777	253	7,571	6,187	362	13.2
Not on Multibuilding Facility	36,312	33,631	4,320	11,001	12,056	822	10,787	8,594	538	7.2
Space-Heating Energy Source (more than one may apply)										
Electricity	25,636	25,636	8,243	6,018	12,980	970	6,583	8,375	491	11.2
Natural Gas	38,524	38,524	3,651	13,797	13,980	553	15,967	11,524	549	8.9
Fuel Oil	7,334	7,334	602	1,746	2,099	413	5,260	627	Q	16.6
District Heat	5,242	5,242	443	Q	1,139	5,225	Q	279	Q	17.1
Propane	1,568	1,568	242	534	984	Q	219	Q	Q	24.8
Wood	504	504	Q	Q	380	Q	Q	Q	Q	23.8
Any Other	661	661	Q	Q	Q	Q	Q	Q	Q	70.4
Primary Space-Heating Energy Source										
Electricity	15,502	15,502	4,723	2,201	6,528	Q	2,371	4,591	363	12.6
Natural Gas	35,161	35,161	2,541	12,649	12,523	Q	14,727	10,609	474	9.2
Fuel Oil	4,415	4,415	275	1,292	1,266	Q	3,131	Q	Q	19.5
District Heat	5,014	5,014	376	Q	1,074	4,996	Q	271	Q	18.1
Propane	1,101	1,101	Q	406	679	Q	Q	Q	Q	27.6
Wood	257	257	Q	Q	188	Q	Q	Q	Q	29.8
Any Other	546	546	Q	Q	Q	Q	Q	Q	Q	80.5
Replacement Energy Source for Primary Heating										
Electricity Only	2,559	2,559	Q	1,250	934	Q	398	605	Q	18.0
Natural Gas Only	2,260	2,260	542	539	761	Q	754	250	Q	25.3
Fuel Oil Only	5,451	5,451	589	922	1,995	546	3,844	799	Q	23.0
Propane Only	2,174	2,174	Q	921	736	Q	439	598	Q	20.2
Any Other Single Energy Source	477	477	Q	136	127	Q	Q	Q	Q	43.0
More than One Energy Source	895	895	Q	338	344	Q	Q	Q	Q	29.5
Percent of Floorspace Heated										
Not Heated	6,211	330	Q	Q	Q	Q	Q	Q	Q	33.6
1 to 50	11,195	11,195	1,611	4,139	5,663	385	1,366	2,623	Q	18.8
51 to 99	10,211	10,211	1,908	2,671	3,667	815	3,551	3,519	Q	13.8
100	40,260	40,260	4,750	10,099	13,049	4,024	15,747	9,857	625	7.7
Heating Equipment (more than one may apply)										
Heat Pumps	8,269	8,269	8,269	1,493	2,717	443	2,267	1,908	Q	15.2
Furnaces	16,909	16,909	1,493	16,909	6,657	Q	1,831	2,642	Q	11.4
Individual Space Heaters	22,380	22,380	2,717	6,657	22,380	1,139	5,131	5,318	354	10.4
District Heat	5,225	5,225	443	Q	1,139	5,225	Q	279	Q	17.1
Boilers	20,664	20,664	2,267	1,831	5,131	Q	20,664	2,870	284	11.9
Packaged Heating Units	16,000	16,000	1,908	2,642	5,318	279	2,870	16,000	Q	13.7
Other	903	903	Q	Q	354	Q	284	Q	903	25.4

See footnotes at end of table.

Table A48. Heating Equipment, Floorspace, 1992 (Continued)

(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Heated Buildings	Heating Equipment (more than one may apply)							RSE Row Factor
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other	
RSE Column Factor:	0.6	0.6	1.2	0.9	0.8	1.5	0.9	1.0	2.5	
Heating Distribution Equipment (more than one may apply)										
Radiators or Baseboards	13,263	13,263	997	1,038	3,437	2,695	10,602	1,480	Q	13.4
Ducts for Heating	45,422	45,422	7,892	16,427	13,853	3,141	13,713	15,774	737	7.6
Heating Only	5,950	5,950	Q	3,651	1,958	207	2,202	Q	Q	21.0
Heating and Cooling	39,472	39,472	7,774	12,776	11,895	2,935	11,511	14,932	661	7.6
Variable Air-Volume System Used	11,528	11,528	1,551	2,489	3,634	1,721	5,627	3,650	253	17.7
Fan Coil Units for Heating	5,474	5,474	1,364	395	1,398	1,444	3,770	1,041	Q	20.2
Heating Only	3,569	3,569	1,179	Q	959	693	2,606	739	Q	24.8
Heating and Cooling	1,906	1,906	Q	Q	439	751	1,164	302	Q	24.0
Individual Space Heaters	22,380	22,380	2,717	6,657	22,380	1,139	5,131	5,318	354	10.4
Other	3,310	3,310	791	1,431	1,185	245	1,716	954	Q	22.9
Cooling Equipment (more than one may apply)										
Residential-Type Central Air Conditioners	9,021	8,968	750	5,712	3,549	661	2,512	1,258	Q	13.0
Heat Pumps	8,406	8,383	7,638	1,534	2,679	414	2,467	1,944	Q	14.9
Individual Air Conditioners	17,979	17,806	2,110	5,214	8,131	1,497	8,503	3,614	Q	14.5
District Chilled Water	2,066	2,063	Q	Q	650	1,702	Q	Q	Q	25.7
Central Chillers	12,991	12,606	1,395	775	3,476	1,814	8,931	1,929	387	14.7
Packaged Air-Conditioning Units	27,830	27,411	2,562	7,004	9,886	1,745	7,936	13,810	385	8.9
Swamp Coolers	2,085	2,036	374	507	815	Q	516	574	Q	29.5
Other	268	268	Q	Q	Q	Q	Q	Q	Q	67.3
Building Shell Conservation Features (more than one may apply)										
Roof or Ceiling Insulation	50,311	48,409	7,215	13,130	17,426	3,953	17,060	12,791	827	7.2
Wall Insulation	33,240	32,180	5,335	9,371	11,509	2,226	10,460	8,601	547	8.1
Storm or Multiple Glazing	29,684	29,441	4,100	8,620	9,846	2,303	11,905	6,681	470	9.4
Tinted, Reflective or Shading Glass	25,396	24,816	4,330	5,466	8,405	2,382	9,406	7,985	454	12.1
Exterior or Interior Shading or Awnings	34,071	33,454	5,078	8,168	11,182	2,931	12,568	9,793	675	8.4
Windows that Open	28,937	27,381	3,310	7,507	9,247	2,724	11,218	5,341	397	9.9
HVAC Conservation Features (more than one may apply)										
Variable Air-Volume System	13,970	13,969	1,594	2,503	5,083	2,115	6,575	3,651	331	16.2
Economizer Cycle	18,313	18,231	2,637	3,395	7,069	2,285	8,524	5,409	537	12.0
HVAC Maintenance	49,173	48,460	6,442	11,789	15,970	4,984	18,475	12,488	825	7.4
Off-Hour Equipment Reduction (more than one may apply)										
Heating	46,248	46,248	5,587	14,148	16,889	2,830	14,367	12,862	564	7.2
Cooling	42,768	42,090	5,605	12,673	15,017	2,663	13,369	12,835	542	7.7
Hot Water	9,966	9,854	1,275	1,850	2,635	586	4,512	2,623	Q	11.9
Lighting	54,944	51,638	6,607	15,547	18,578	3,146	16,319	14,078	647	6.6
Other	7,996	7,839	754	2,412	3,427	474	2,301	2,221	Q	19.8

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A49. Cooling Equipment, Number of Buildings, 1992
(Thousand)

Building Characteristics	All Buildings	All Cooled Buildings	Cooling Equipment (more than one may apply)								RSE Row Factor
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air-Conditioning Units	Swamp Coolers	Other	
RSE Column Factor:	0.4	0.4	0.9	1.0	0.7	1.8	1.0	0.6	2.0	3.9	
All Buildings	4,806	3,502	816	454	1,023	28	142	1,459	179	8	9.2
Building Floorspace (square feet)											
1,001 to 5,000	2,681	1,792	470	202	536	Q	Q	625	110	Q	12.4
5,001 to 10,000	975	758	173	120	198	Q	20	347	33	Q	12.4
10,001 to 25,000	647	519	107	71	155	8	21	264	21	Q	14.3
25,001 to 50,000	280	236	44	31	73	9	29	119	8	Q	17.4
50,001 to 100,000	116	103	12	15	34	Q	24	58	Q	Q	16.2
100,001 to 200,000	71	59	7	11	16	2	20	30	Q	Q	17.8
200,001 to 500,000	26	24	3	3	7	2	9	12	Q	Q	20.9
Over 500,000	9	9	1	2	5	1	5	4	Q	Q	41.0
Principal Building Activity											
Education	301	251	42	34	72	9	29	106	19	Q	18.4
Food Sales	130	119	Q	Q	26	Q	Q	50	Q	Q	32.6
Food Service	260	244	36	Q	46	Q	Q	160	24	Q	20.2
Health Care	63	59	11	13	13	Q	6	27	Q	Q	33.2
Lodging	154	120	16	22	72	Q	7	28	Q	Q	26.6
Mercantile and Service	1,272	942	227	93	338	Q	13	360	60	Q	13.1
Office	749	731	223	108	126	8	43	331	12	Q	13.7
Parking Garage	24	12	Q	Q	8	Q	Q	1	Q	Q	64.6
Public Assembly	278	208	39	34	76	Q	17	80	Q	Q	19.0
Public Order and Safety	60	47	Q	Q	19	Q	5	17	Q	Q	41.2
Religious Worship	366	286	79	38	68	Q	6	121	Q	Q	24.6
Warehouse and Storage	761	324	74	39	116	Q	3	120	Q	Q	19.6
Other	69	44	Q	Q	11	Q	3	25	Q	Q	37.0
Vacant	319	114	30	22	32	Q	4	33	Q	Q	27.3
Year Constructed											
1899 or Before	169	119	34	Q	65	Q	Q	41	Q	Q	29.3
1900 to 1919	255	169	64	13	78	Q	5	41	Q	Q	25.6
1920 to 1945	724	491	105	29	203	Q	12	186	28	Q	17.4
1946 to 1959	880	643	156	43	217	7	27	256	42	Q	16.2
1960 to 1969	783	563	135	62	172	5	36	241	40	Q	15.3
1970 to 1979	982	741	162	116	166	5	27	348	24	Q	14.6
1980 to 1989	884	682	144	157	110	Q	23	306	34	Q	15.2
1990 to 1992	128	93	17	25	12	Q	5	40	Q	Q	39.2
Census Region											
Northeast	771	521	97	43	269	2	28	208	Q	Q	15.5
Midwest	1,202	784	275	29	229	7	31	331	Q	Q	17.9
South	1,963	1,569	363	285	433	10	58	610	39	Q	14.4
West	870	627	82	96	92	9	25	310	129	Q	19.1
Energy Sources (more than one may apply)											
Electricity	4,616	3,502	816	454	1,023	28	142	1,459	179	8	9.1
Natural Gas	2,665	2,263	609	140	641	15	109	1,051	134	Q	11.3
Fuel Oil	559	378	81	30	195	2	35	116	Q	Q	17.8
District Heat	95	82	11	8	26	24	14	24	Q	Q	26.0
District Chilled Water	28	28	Q	Q	2	28	Q	3	Q	Q	37.3
Propane	337	230	70	33	91	Q	4	63	Q	Q	28.0
Any Other	163	71	Q	Q	42	Q	Q	13	Q	Q	36.7

See footnotes at end of table.

Table A49. Cooling Equipment, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	All Cooled Buildings	Cooling Equipment (more than one may apply)								RSE Row Factor
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air-Conditioning Units	Swamp Coolers	Other	
RSE Column Factor:	0.4	0.4	0.9	1.0	0.7	1.8	1.0	0.6	2.0	3.9	
Energy End Uses (more than one may apply)											
Heated Buildings	4,178	3,439	811	453	1,001	28	141	1,426	172	8	9.2
Air-Conditioned Buildings	3,502	3,502	816	454	1,023	28	142	1,459	179	8	9.2
Buildings with Water Heating	3,502	3,016	716	411	855	22	136	1,304	137	8	9.4
Buildings with Cooking	734	663	118	80	190	8	54	345	38	Q	14.1
Buildings with Manufacturing	121	92	24	14	31	Q	4	40	Q	Q	30.8
Climate Zone: 45-Year Average											
Fewer than 2,000 CDD and --											
More than 7,000 HDD	399	229	54	12	93	Q	11	90	Q	Q	29.9
5,500-7,000 HDD	1,134	766	224	36	279	5	40	312	33	Q	18.8
4,000-5,499 HDD	1,077	753	198	129	257	4	29	253	Q	Q	27.1
Fewer than 4,000 HDD	1,101	838	139	149	166	10	38	398	71	Q	25.7
More than 2,000 CDD and --											
Fewer than 4,000 HDD	1,095	915	203	128	228	9	25	405	60	Q	20.9
Predominant Exterior Wall Material											
Masonry	3,115	2,491	552	311	683	25	115	1,109	124	Q	9.5
Siding or Shingles	764	473	136	50	185	Q	5	145	Q	Q	18.8
Metal Panels	745	394	107	71	132	Q	5	126	25	Q	21.2
Concrete Panels	87	71	8	13	8	2	10	43	4	Q	26.1
Window Glass	46	38	Q	Q	9	Q	6	22	Q	Q	34.8
Other	47	35	Q	Q	Q	Q	2	14	Q	Q	48.2
Predominant Roof Material											
Built-Up	1,642	1,319	253	165	333	11	66	642	92	Q	10.2
Shingles (Not Wood)	1,381	1,025	309	117	341	Q	18	344	41	Q	13.7
Metal Surfacing	1,037	576	154	103	180	Q	13	185	32	Q	17.8
Synthetic or Rubber	386	318	53	32	92	6	30	174	9	Q	17.0
Slate or Tile	155	113	22	Q	33	Q	7	46	Q	Q	28.2
Concrete	37	27	Q	Q	5	Q	Q	12	Q	Q	66.6
Other	167	124	20	15	38	Q	5	57	Q	Q	34.0
Percent Window Glass											
25 or Less	4,193	2,987	717	397	885	21	96	1,191	154	Q	9.7
26 to 50	490	410	84	45	110	6	32	214	20	Q	14.9
51 to 75	94	80	12	9	22	Q	8	46	Q	Q	31.6
76 to 100	29	25	Q	Q	Q	Q	6	8	Q	Q	40.6
Workers (main shift)											
Less than 5	2,718	1,623	380	202	574	Q	24	512	83	Q	13.8
5 to 9	895	781	208	92	194	Q	9	351	52	Q	13.5
10 to 19	561	502	130	61	121	10	15	263	22	Q	15.9
20 to 49	405	384	75	65	85	5	33	205	12	Q	14.7
50 to 99	130	118	14	16	32	3	24	77	Q	Q	18.7
100 to 249	64	63	8	11	12	2	19	34	Q	Q	18.8
250 or More	31	31	2	6	5	3	18	16	Q	Q	19.6
Weekly Operating Hours											
39 or Fewer	1,039	513	139	50	156	Q	13	188	Q	Q	19.8
40 to 48	1,278	1,007	268	151	286	8	42	381	55	Q	13.0
49 to 60	1,004	786	189	103	241	4	20	313	43	Q	13.1
61 to 84	645	528	104	57	151	4	30	259	15	Q	14.2
85 to 167	478	405	73	49	82	Q	15	216	37	Q	16.7
Open Continuously	362	262	43	44	108	5	21	101	8	Q	17.5

See footnotes at end of table.

Table A49. Cooling Equipment, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	All Cooled Buildings	Cooling Equipment (more than one may apply)								RSE Row Factor
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air-Conditioning Units	Swamp Coolers	Other	
RSE Column Factor:	0.4	0.4	0.9	1.0	0.7	1.8	1.0	0.6	2.0	3.9	
Energy-Related Space Functions (more than one may apply)											
Commercial Food Preparation	735	661	118	80	188	8	52	345	38	Q	14.1
Computer Room	223	223	43	25	70	5	37	127	5	Q	17.9
Rooms with Special Ventilation	236	215	37	28	54	3	25	112	15	Q	19.3
Activities with Large Amounts of Hot Water	203	164	28	20	57	2	16	84	15	Q	18.8
Multibuilding Facility											
Part of Multibuilding Facility	1,667	1,090	215	164	300	27	71	434	61	Q	12.6
with Central Physical Plant	223	174	32	29	47	27	25	51	Q	Q	23.2
No Central Physical Plant	1,444	916	184	135	253	Q	46	383	56	Q	13.8
Not on Multibuilding Facility	3,139	2,412	601	290	723	Q	71	1,025	117	Q	9.5
Cooling Energy Sources (more than one may apply)											
Electricity	3,404	3,404	783	449	1,015	11	137	1,419	178	7	9.9
Natural Gas	106	106	48	8	16	Q	8	52	Q	Q	28.6
District Chilled Water	28	28	Q	Q	2	28	Q	3	Q	Q	37.3
Percent of Floorspace Cooled											
Not Cooled	1,304	Q	Q	Q	Q	Q	Q	Q	Q	Q	14.1
1 to 50	1,176	1,176	259	111	568	Q	20	346	57	Q	12.4
51 to 99	658	658	168	79	191	6	46	317	31	Q	13.9
100	1,668	1,668	389	263	265	20	76	796	91	Q	11.9
Heating Equipment (more than one may apply)											
Heat Pumps	449	443	35	427	51	Q	11	57	Q	Q	19.6
Furnaces	1,692	1,391	624	66	377	Q	15	474	69	Q	13.3
Individual Space Heaters	1,464	1,081	247	98	526	3	34	338	75	Q	12.7
District Heat	93	80	11	8	25	24	14	24	Q	Q	26.3
Boilers	624	509	103	27	263	Q	100	182	19	Q	12.4
Packaged Heating Units	870	855	64	40	88	Q	24	780	38	Q	17.2
Other	42	36	Q	Q	Q	Q	3	16	Q	Q	50.7
Cooling Equipment (more than one may apply)											
Residential-Type Central Air Conditioners	816	816	816	30	142	Q	7	61	Q	Q	17.8
Heat Pumps	454	454	30	454	48	Q	9	54	Q	Q	20.8
Individual Air Conditioners	1,023	1,023	142	48	1,023	2	35	158	17	Q	14.1
District Chilled Water	28	28	Q	Q	2	28	Q	3	Q	Q	37.3
Central Chillers	142	142	7	9	35	Q	142	40	4	Q	20.3
Packaged Air-Conditioning Units	1,459	1,459	61	54	158	3	40	1,459	38	Q	14.3
Swamp Coolers	179	179	Q	Q	17	Q	4	38	179	Q	35.3
Other	8	8	Q	Q	Q	Q	Q	Q	Q	8	49.5

See footnotes at end of table.

Table A49. Cooling Equipment, Number of Buildings, 1992 (Continued)

(Thousand)

Building Characteristics	All Buildings	All Cooled Buildings	Cooling Equipment (more than one may apply)								RSE Row Factor
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air-Conditioning Units	Swamp Coolers	Other	
RSE Column Factor:	0.4	0.4	0.9	1.0	0.7	1.8	1.0	0.6	2.0	3.9	
Cooling Distribution Equipment (more than one may apply)											
Ducts for Cooling	2,733	2,733	798	444	324	25	124	1,450	144	8	9.6
Cooling Only	355	355	102	11	88	5	31	189	47	Q	18.8
Heating and Cooling	2,378	2,378	696	433	236	21	93	1,261	98	Q	10.0
Variable Air-Volume System Used	221	221	43	20	26	12	38	139	5	Q	18.0
Fan Coil Units for Cooling	56	56	Q	2	16	5	36	14	15	Q	28.1
Cooling Only	35	35	Q	Q	12	Q	19	10	14	Q	40.5
Heating and Cooling	21	21	Q	Q	4	3	16	4	Q	Q	33.3
Individual Air Conditioners	1,023	1,023	142	48	1,023	2	35	158	17	Q	14.1
Other	111	111	32	27	22	Q	9	37	50	Q	29.8
Building Shell Conservation Features (more than one may apply)											
Roof or Ceiling Insulation	3,343	2,727	664	399	719	23	118	1,165	128	Q	9.5
Wall Insulation	2,320	1,908	487	310	455	11	77	805	80	Q	11.4
Storm or Multiple Glazing	1,680	1,405	390	197	393	8	72	575	38	Q	12.3
Tinted, Reflective or Shading Glass	1,068	977	237	150	164	12	60	491	62	Q	12.9
Exterior or Interior Shading or Awnings	1,853	1,705	431	254	424	17	94	751	91	Q	11.6
Windows that Open	2,119	1,515	377	186	584	15	73	499	70	Q	12.4
HVAC Conservation Features (more than one may apply)											
Variable Air-Volume System	250	235	47	20	35	12	39	140	5	Q	17.2
Economizer Cycle	414	414	55	76	74	11	62	226	20	Q	16.6
HVAC Maintenance	2,503	2,176	490	294	559	28	127	992	104	Q	10.2
Off-Hour Equipment Reduction (more than one may apply)											
Heating	3,400	2,804	673	337	787	20	103	1,178	149	Q	9.8
Cooling	2,872	2,872	687	334	825	20	106	1,214	152	Q	9.7
Hot Water	578	445	86	63	123	4	28	187	23	Q	17.7
Lighting	4,089	3,168	757	397	899	23	118	1,331	167	8	9.5
Other	547	446	98	43	138	Q	16	195	27	Q	19.9

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A50. Cooling Equipment, Floorspace, 1992
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Cooled Buildings	Cooling Equipment (more than one may apply)								RSE Row Factor
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air-Conditioning Units	Swamp Coolers	Other	
			0.8	0.9	0.9	1.6	1.0	0.6	1.9	3.7	
RSE Column Factor:	0.4	0.5	0.8	0.9	0.9	1.6	1.0	0.6	1.9	3.7	
All Buildings	67,876	57,041	9,021	8,406	17,979	2,066	12,991	27,830	2,085	268	9.0
Building Floorspace (square feet)											
1,001 to 5,000	7,327	4,994	1,313	549	1,516	Q	Q	1,750	316	Q	12.6
5,001 to 10,000	7,199	5,601	1,268	902	1,470	Q	157	2,550	250	Q	12.1
10,001 to 25,000	10,375	8,364	1,716	1,152	2,370	115	357	4,319	331	Q	13.9
25,001 to 50,000	10,069	8,435	1,528	1,181	2,604	311	1,088	4,245	304	Q	17.4
50,001 to 100,000	8,062	7,185	810	1,032	2,390	Q	1,651	4,040	Q	Q	15.5
100,001 to 200,000	9,678	8,072	913	1,511	2,167	252	2,752	4,172	Q	Q	17.4
200,001 to 500,000	7,889	7,217	851	889	2,082	737	3,072	3,678	Q	Q	21.0
Over 500,000	7,278	7,174	622	1,191	3,381	515	3,869	3,075	Q	Q	33.3
Principal Building Activity											
Education	8,470	7,389	900	618	3,182	253	2,243	3,067	185	Q	17.6
Food Sales	757	725	Q	Q	148	Q	Q	386	Q	Q	32.8
Food Service	1,491	1,449	160	Q	327	Q	Q	994	66	Q	21.1
Health Care	1,763	1,747	163	407	652	227	1,141	938	Q	Q	22.1
Lodging	2,891	2,493	325	668	1,310	Q	629	906	Q	Q	29.6
Mercantile and Service	12,402	10,874	1,679	1,572	3,109	Q	1,188	5,676	605	Q	18.1
Office	12,319	12,198	1,999	1,924	1,855	659	4,345	6,506	402	Q	14.8
Parking Garage	1,652	922	Q	Q	Q	Q	Q	256	Q	Q	71.1
Public Assembly	4,556	4,077	465	494	Q	Q	Q	1,533	Q	Q	35.4
Public Order and Safety	820	741	Q	Q	283	Q	306	352	Q	Q	49.8
Religious Worship	3,747	3,121	804	405	1,021	Q	Q	1,460	Q	Q	26.4
Warehouse and Storage	11,484	7,885	1,412	1,686	2,844	Q	421	3,888	410	Q	21.4
Other	1,130	1,040	Q	Q	264	Q	216	619	Q	Q	31.4
Vacant	4,396	2,382	487	274	877	Q	500	1,249	Q	Q	38.4
Year Constructed											
1899 or Before	1,721	1,307	232	Q	702	Q	Q	643	Q	Q	29.5
1900 to 1919	3,608	2,759	702	193	1,675	Q	242	1,272	Q	Q	33.4
1920 to 1945	8,712	6,586	1,441	672	3,223	Q	847	2,905	186	Q	21.6
1946 to 1959	10,421	8,260	1,770	963	3,183	241	1,551	3,537	285	Q	17.8
1960 to 1969	12,612	10,601	1,528	1,170	3,603	376	3,032	5,411	510	Q	16.8
1970 to 1979	14,014	12,286	1,800	1,807	2,586	632	3,306	6,494	386	Q	15.2
1980 to 1989	14,287	12,985	1,357	2,921	2,900	243	3,228	6,338	549	Q	20.3
1990 to 1992	2,502	2,258	190	562	108	164	571	1,230	Q	Q	26.0
Census Region											
Northeast	13,400	11,158	1,508	1,286	5,806	302	2,519	5,879	Q	Q	18.7
Midwest	17,280	14,383	2,968	1,416	4,723	684	3,163	6,564	Q	Q	16.3
South	24,577	21,205	3,455	3,745	5,683	659	4,854	10,058	335	Q	15.0
West	12,619	10,296	1,091	1,959	1,767	421	2,456	5,329	1,546	Q	15.7
Energy Sources (more than one may apply)											
Electricity	66,549	57,041	9,021	8,406	17,979	2,066	12,991	27,830	2,085	268	9.0
Natural Gas	45,097	41,423	7,449	4,872	13,165	1,109	9,868	22,082	1,404	211	10.0
Fuel Oil	13,218	12,081	1,487	1,643	4,010	588	5,753	6,004	326	Q	15.2
District Heat	5,339	4,786	661	456	1,557	1,737	1,821	1,805	Q	Q	22.4
District Chilled Water	2,066	2,066	Q	Q	225	2,066	Q	628	Q	Q	31.8
Propane	3,393	2,837	713	710	979	Q	453	1,372	Q	Q	26.0
Any Other	1,551	1,117	Q	Q	602	Q	Q	237	Q	Q	49.5

See footnotes at end of table.

Table A50. Cooling Equipment, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Cooled Buildings	Cooling Equipment (more than one may apply)								RSE Row Factor
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air-Conditioning Units	Swamp Coolers	Other	
RSE Column Factor:	0.4	0.5	0.8	0.9	0.9	1.6	1.0	0.6	1.9	3.7	
Energy End Uses (more than one may apply)											
Heated Buildings	61,996	56,073	8,968	8,383	17,806	2,063	12,606	27,411	2,036	268	9.1
Air-Conditioned Buildings	57,041	57,041	9,021	8,406	17,979	2,066	12,991	27,830	2,085	268	9.1
Buildings with Water											
Heating	58,479	53,839	8,471	8,100	16,976	1,978	12,779	26,570	1,865	268	9.3
Buildings with Cooking	23,065	22,003	2,553	2,991	7,650	920	8,725	10,900	755	Q	14.0
Buildings with											
Manufacturing	3,174	2,870	601	689	1,268	Q	513	1,494	Q	Q	30.4
Climate Zone: 45-Year Average											
Fewer than 2,000 CDD and --											
More than 7,000 HDD	5,623	4,267	804	487	1,572	Q	843	1,779	Q	Q	29.2
5,500-7,000 HDD	18,024	14,977	2,889	1,393	5,670	574	3,647	7,396	477	Q	18.3
4,000-5,499 HDD	16,162	13,549	2,037	2,425	5,140	526	2,771	6,302	Q	Q	20.0
Fewer than 4,000 HDD	15,251	12,870	1,492	2,565	2,446	437	3,180	6,966	532	Q	22.1
More than 2,000 CDD and --											
Fewer than 4,000 HDD	12,816	11,379	1,798	1,536	3,151	467	2,550	5,386	753	Q	23.0
Predominant Exterior Wall Material											
Masonry	48,585	42,084	6,291	6,068	14,229	1,630	9,400	21,081	1,323	Q	10.6
Siding or Shingles	3,873	2,625	594	433	981	Q	170	1,095	Q	Q	18.3
Metal Panels	7,392	4,854	1,384	1,167	1,430	Q	234	1,862	289	Q	21.4
Concrete Panels	4,961	4,563	453	550	956	221	1,579	2,328	350	Q	26.4
Window Glass	2,028	1,978	Q	145	305	Q	1,259	897	Q	Q	31.5
Other	1,037	938	Q	Q	Q	Q	350	568	Q	Q	47.7
Predominant Roof Material											
Built-Up	30,257	26,404	3,631	3,998	8,114	969	6,838	14,295	1,342	Q	13.2
Shingles (Not Wood)	10,570	8,606	2,080	1,087	2,990	Q	951	3,529	252	Q	16.8
Metal Surfacing	9,019	6,077	1,623	1,157	1,594	Q	441	2,331	252	Q	18.5
Synthetic or Rubber	11,702	10,893	1,045	1,397	3,175	626	3,687	5,666	185	Q	16.6
Slate or Tile	1,998	1,608	193	Q	743	Q	118	657	Q	Q	30.4
Concrete	2,544	1,909	Q	78	830	Q	676	692	Q	Q	47.0
Other	1,786	1,544	190	451	533	Q	280	660	Q	Q	32.4
Percent Window Glass											
25 or Less	51,356	41,691	6,884	5,929	12,874	1,317	7,610	20,356	1,737	Q	10.3
26 to 50	11,815	10,873	1,669	2,132	4,006	503	3,184	5,193	255	Q	16.6
51 to 75	3,206	3,031	409	291	925	Q	1,311	1,639	Q	Q	23.3
76 to 100	1,499	1,447	Q	53	Q	Q	886	643	Q	Q	35.9
Workers (main shift)											
Less than 5	17,944	10,719	2,114	1,272	4,095	Q	Q	3,619	368	Q	19.1
5 to 9	7,524	6,249	1,399	818	2,143	Q	182	2,612	239	Q	14.5
10 to 19	8,077	6,954	1,546	898	2,301	193	355	3,389	296	Q	17.5
20 to 49	10,556	9,990	1,596	1,454	2,807	191	1,320	5,525	374	Q	15.0
50 to 99	7,763	7,313	861	1,140	2,678	327	1,730	4,500	Q	Q	20.9
100 to 249	7,378	7,195	594	1,405	1,950	192	2,688	3,770	Q	Q	21.6
250 or More	8,633	8,621	910	1,420	2,004	868	5,397	4,414	Q	Q	18.3
Weekly Operating Hours											
39 or Fewer	8,246	4,632	912	374	1,767	Q	374	2,088	Q	Q	24.5
40 to 48	14,998	12,558	2,481	1,916	3,649	312	2,013	5,989	494	Q	13.9
49 to 60	14,046	12,218	2,250	1,757	3,303	357	2,143	5,784	582	Q	15.1
61 to 84	12,062	11,158	1,329	1,810	2,838	178	3,212	5,879	287	Q	16.8
85 to 167	8,467	7,742	1,002	945	2,054	278	1,358	4,224	297	Q	20.1
Open Continuously	10,057	8,733	1,046	1,604	4,368	724	3,891	3,866	309	Q	21.9

See footnotes at end of table.

Table A50. Cooling Equipment, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Cooled Buildings	Cooling Equipment (more than one may apply)								RSE Row Factor
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air-Conditioning Units	Swamp Coolers	Other	
RSE Column Factor:	0.4	0.5	0.8	0.9	0.9	1.6	1.0	0.6	1.9	3.7	
Energy-Related Space Functions (more than one may apply)											
Commercial Food Preparation	22,166	21,096	2,553	2,991	6,750	920	7,823	10,896	755	Q	12.1
Computer Room	14,199	14,199	1,762	2,355	4,361	839	5,942	8,419	482	Q	15.4
Rooms with Special Ventilation	8,042	7,744	975	1,101	2,339	500	3,247	4,013	343	Q	17.2
Activities with Large Amounts of Hot Water	6,862	6,546	911	1,392	2,338	416	2,261	3,496	213	Q	18.7
Multibuilding Facility											
Part of Multibuilding Facility	31,564	26,158	3,469	3,926	8,488	1,784	7,722	11,757	1,057	Q	13.3
with Central Physical Plant	8,395	7,402	972	807	2,487	1,710	2,844	2,475	Q	Q	20.4
No Central Physical Plant	23,170	18,756	2,497	3,119	6,001	Q	4,879	9,282	781	Q	15.6
Not on Multibuilding Facility	36,312	30,883	5,551	4,480	9,492	Q	5,268	16,073	1,028	Q	8.9
Cooling Energy Sources (more than one may apply)											
Electricity	54,628	54,628	8,761	8,388	17,734	842	12,500	26,928	2,063	255	9.6
Natural Gas	1,906	1,906	465	175	420	Q	783	1,047	Q	Q	30.7
District Chilled Water	2,066	2,066	Q	Q	225	2,066	Q	628	Q	Q	31.8
Percent of Floorspace Cooled											
Not Cooled	10,835	Q	Q	Q	Q	Q	Q	Q	Q	Q	16.0
1 to 50	21,715	21,715	4,166	3,024	10,452	Q	1,752	9,007	659	Q	14.1
51 to 99	13,872	13,872	1,961	1,832	3,767	702	4,712	7,824	652	Q	13.6
100	21,454	21,454	2,894	3,550	3,761	988	6,527	10,999	774	Q	14.4
Heating Equipment (more than one may apply)											
Heat Pumps	8,269	8,207	750	7,638	2,110	Q	1,395	2,562	374	Q	18.3
Furnaces	16,909	15,209	5,712	1,534	5,214	Q	775	7,004	507	Q	13.6
Individual Space Heaters	22,380	19,667	3,549	2,679	8,131	650	3,476	9,886	815	Q	12.6
District Heat	5,225	4,708	661	414	1,497	1,702	1,814	1,745	Q	Q	22.8
Boilers	20,664	19,086	2,512	2,467	8,503	Q	8,931	7,936	516	Q	14.5
Packaged Heating Units	16,000	15,870	1,258	1,944	3,614	Q	1,929	13,810	574	Q	15.0
Other	903	845	Q	Q	Q	Q	387	385	Q	Q	39.3
Cooling Equipment (more than one may apply)											
Residential-Type Central Air Conditioners	9,021	9,021	9,021	748	2,756	Q	1,134	1,979	Q	Q	15.4
Heat Pumps	8,406	8,406	748	8,406	2,078	Q	1,308	2,579	381	Q	17.8
Individual Air Conditioners	17,979	17,979	2,756	2,078	17,979	225	3,468	5,856	333	Q	18.1
District Chilled Water	2,066	2,066	Q	Q	225	2,066	Q	628	Q	Q	31.8
Central Chillers	12,991	12,991	1,134	1,308	3,468	Q	12,991	4,608	352	Q	20.3
Packaged Air-Conditioning Units	27,830	27,830	1,979	2,579	5,856	628	4,608	27,830	746	Q	12.3
Swamp Coolers	2,085	2,085	Q	381	333	Q	352	746	2,085	Q	32.3
Other	268	268	Q	Q	Q	Q	Q	Q	Q	268	40.7

See footnotes at end of table.

Table A50. Cooling Equipment, Floorspace, 1992 (Continued)

(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Cooled Buildings	Cooling Equipment (more than one may apply)								RSE Row Factor
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air-Conditioning Units	Swamp Coolers	Other	
			0.8	0.9	0.9	1.6	1.0	0.6	1.9	3.7	
RSE Column Factor:	0.4	0.5	0.8	0.9	0.9	1.6	1.0	0.6	1.9	3.7	
Cooling Distribution Equipment (more than one may apply)											
Ducts for Cooling	47,755	47,755	8,883	8,263	10,414	1,785	11,840	27,614	1,862	267	9.7
Cooling Only	8,283	8,283	1,363	378	2,364	389	2,855	5,213	349	Q	17.7
Heating and Cooling	39,472	39,472	7,520	7,885	8,050	1,396	8,985	22,401	1,513	Q	10.4
Variable Air-Volume System Used	12,430	12,430	1,581	1,606	2,799	904	6,640	6,568	283	Q	20.7
Fan Coil Units for Cooling	3,875	3,875	449	356	919	767	2,968	1,510	251	Q	25.8
Cooling Only	1,969	1,969	Q	Q	448	Q	1,529	810	208	Q	36.5
Heating and Cooling	1,906	1,906	Q	Q	471	459	1,439	700	Q	Q	25.5
Individual Air Conditioners	17,979	17,979	2,756	2,078	17,979	225	3,468	5,856	333	Q	18.1
Other	2,919	2,919	531	911	725	Q	1,237	1,688	536	Q	30.1
Building Shell Conservation Features (more than one may apply)											
Roof or Ceiling Insulation	50,311	45,186	7,175	7,372	13,734	1,616	11,124	21,969	1,747	231	9.8
Wall Insulation	33,240	30,278	5,004	5,354	7,885	994	7,938	14,852	1,133	Q	11.8
Storm or Multiple Glazing	29,684	27,331	4,497	4,133	8,563	808	7,663	13,555	650	Q	12.8
Tinted, Reflective or Shading Glass	25,396	24,350	3,245	4,225	5,521	1,103	8,081	12,481	1,087	Q	14.7
Exterior or Interior Shading or Awnings	34,071	32,198	5,114	5,234	9,117	1,239	9,189	16,949	1,256	Q	11.5
Windows that Open	28,937	23,966	4,487	3,471	10,572	1,042	4,967	10,421	644	Q	11.7
HVAC Conservation Features (more than one may apply)											
Variable Air-Volume System	13,970	13,727	1,623	1,606	3,768	916	6,914	6,603	283	Q	19.9
Economizer Cycle	18,313	18,313	1,832	2,627	4,869	1,110	8,255	9,808	695	Q	15.9
HVAC Maintenance	49,173	45,836	6,637	6,524	13,562	2,058	12,480	22,979	1,646	168	9.7
Off-Hour Equipment Reduction (more than one may apply)											
Heating	46,248	41,926	7,011	5,753	11,708	1,058	7,870	20,867	1,614	Q	8.9
Cooling	42,768	42,768	7,147	5,822	12,112	1,061	8,233	21,335	1,639	Q	8.8
Hot Water	9,966	8,831	1,126	1,330	2,306	326	2,525	4,190	253	Q	15.7
Lighting	54,944	47,342	7,900	6,732	13,493	1,149	8,883	23,440	1,758	237	8.7
Other	7,996	7,291	1,102	773	2,177	Q	1,575	3,983	Q	Q	22.5

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A51. Refrigeration Equipment, Number of Buildings, 1992

Building Characteristics	Number of Buildings (thousand)							RSE Row Factor
	All Buildings	Refrigeration Equipment Used (more than one may apply)						
		All Buildings	Walk-in	Cases and Cabinets			Type Unspecified	
				Any	Open	Closed		
RSE Column Factor:	0.5	0.8	0.9	0.9	1.9	0.9	1.9	
All Buildings	4,806	974	591	786	99	774	72	6.3
Building Floorspace (square feet)								
1,001 to 5,000	2,681	500	300	416	51	410	30	10.2
5,001 to 10,000	975	155	97	121	Q	121	18	12.2
10,001 to 25,000	647	139	75	106	15	103	15	11.4
25,001 to 50,000	280	79	46	59	Q	58	6	14.0
50,001 to 100,000	116	49	32	40	5	39	Q	12.3
100,001 to 200,000	71	30	22	24	5	24	Q	12.5
200,001 to 500,000	26	16	14	13	2	13	Q	15.3
Over 500,000	9	7	6	6	1	6	Q	34.9
Principal Building Activity								
Education	301	89	43	66	3	64	10	12.8
Food Sales	130	127	91	127	38	126	Q	16.9
Food Service	260	246	209	213	Q	210	Q	10.6
Health Care	63	10	5	9	Q	9	Q	29.1
Lodging	154	42	22	35	Q	35	Q	21.5
Mercantile and Service	1,272	223	124	176	29	173	Q	11.5
Office	749	40	16	32	2	32	Q	17.2
Parking Garage	24	Q	Q	Q	Q	Q	Q	46.4
Public Assembly	278	84	33	56	Q	55	Q	16.4
Public Order and Safety	60	Q	Q	Q	Q	Q	Q	36.6
Religious Worship	366	28	Q	17	Q	17	Q	24.3
Warehouse and Storage	761	47	30	25	Q	25	Q	24.2
Other	69	7	5	6	Q	6	Q	40.6
Vacant	319	22	9	20	Q	20	Q	33.5
Year Constructed								
1899 or Before	169	40	26	35	Q	35	Q	22.2
1900 to 1919	255	55	30	47	Q	47	Q	19.3
1920 to 1945	724	127	75	108	Q	107	Q	15.0
1946 to 1959	880	180	91	142	13	140	17	11.8
1960 to 1969	783	173	105	139	22	133	14	13.1
1970 to 1979	982	206	143	161	30	158	15	12.0
1980 to 1989	884	168	113	136	22	135	11	11.9
1990 to 1992	128	24	9	19	1	19	Q	31.2
Census Region								
Northeast	771	176	109	150	16	149	12	11.9
Midwest	1,202	256	164	212	21	211	12	12.9
South	1,963	358	207	276	41	268	38	11.7
West	870	183	111	148	21	146	9	16.7
Energy Sources (more than one may apply)								
Electricity	4,616	970	591	783	99	771	72	6.3
Natural Gas	2,665	683	417	551	69	544	53	7.8
Fuel Oil	559	112	64	91	7	90	7	16.9
District Heat	95	20	13	15	Q	15	Q	23.9
District Chilled Water	28	9	6	7	Q	6	Q	40.5
Propane	337	93	59	73	Q	72	Q	22.1
Any Other	163	16	6	15	Q	15	Q	33.5

See footnotes at end of table.

Table A51. Refrigeration Equipment, Number of Buildings, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)							RSE Row Factor
	All Buildings	Refrigeration Equipment Used (more than one may apply)						
		All Buildings	Walk-in	Cases and Cabinets			Type Unspecified	
				Any	Open	Closed		
RSE Column Factor:	0.5	0.8	0.9	0.9	1.9	0.9	1.9	
Energy End Uses (more than one may apply)								
Heated Buildings	4,178	926	566	752	95	740	70	6.2
Air-Conditioned Buildings	3,502	862	544	699	96	687	67	6.5
Buildings with Water Heating	3,502	918	569	744	97	732	66	6.6
Buildings with Cooking	734	591	422	498	63	489	32	7.2
Buildings with Manufacturing	121	14	8	12	Q	12	Q	35.1
Workers (main shift)								
Less than 5	2,718	414	219	342	32	337	32	11.1
5 to 9	895	198	133	158	21	156	Q	10.8
10 to 19	561	147	97	111	19	110	Q	12.7
20 to 49	405	119	74	99	14	96	8	12.0
50 to 99	130	47	29	38	4	37	Q	13.4
100 to 249	64	29	24	24	6	23	Q	12.9
250 or More	31	19	14	16	3	16	Q	13.0
Weekly Operating Hours								
39 or Fewer	1,039	82	22	59	Q	59	Q	17.1
40 to 48	1,278	118	55	80	7	76	15	15.8
49 to 60	1,004	127	61	93	4	92	13	14.2
61 to 84	645	214	139	176	28	175	11	10.4
85 to 167	478	319	240	281	45	277	Q	10.4
Open Continuously	362	113	75	97	13	95	Q	13.5
Energy-Related Space Functions (more than one may apply)								
Commercial Food Preparation	735	591	422	497	63	488	32	7.1
Computer Room	223	63	40	53	6	51	3	12.7
Rooms with Special Ventilation	236	90	60	79	16	76	Q	14.5
Activity with Large Amounts of Hot Water	203	106	68	82	9	79	Q	14.5
Multibuilding Facility								
Part of Multibuilding Facility	1,667	234	132	169	15	164	26	9.7
with Central Physical Plant	223	38	23	29	1	28	Q	21.3
No Central Physical Plant	1,444	196	110	140	14	135	22	11.4
Not on Multibuilding Facility	3,139	740	459	618	84	611	46	7.6

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A52. Refrigeration Equipment, Floorspace, 1992

Building Characteristics	Total Floorspace (million square feet)							RSE Row Factor
	All Buildings	Refrigeration Equipment Used (more than one may apply)						
		All Buildings	Walk-in	Cases and Cabinets			Type Unspecified	
				Any	Open	Closed		
RSE Column Factor:	0.5	0.8	0.9	0.9	1.8	0.9	2.0	
All Buildings	67,876	25,414	18,680	20,995	3,846	20,477	1,082	7.9
Building Floorspace (square feet)								
1,001 to 5,000	7,327	1,421	865	1,159	144	1,139	96	10.5
5,001 to 10,000	7,199	1,153	695	896	Q	896	135	12.3
10,001 to 25,000	10,375	2,246	1,245	1,717	268	1,662	239	10.8
25,001 to 50,000	10,069	2,925	1,683	2,177	Q	2,135	221	14.3
50,001 to 100,000	8,062	3,440	2,227	2,794	400	2,709	Q	12.1
100,001 to 200,000	9,678	4,141	3,137	3,355	682	3,302	Q	12.7
200,001 to 500,000	7,889	4,906	4,230	4,132	709	4,000	Q	15.6
Over 500,000	7,278	5,181	4,599	4,765	1,360	4,633	Q	27.8
Principal Building Activity								
Education	8,470	5,636	4,169	4,414	288	4,249	192	14.0
Food Sales	757	753	644	753	351	715	Q	18.2
Food Service	1,491	1,446	1,335	1,325	Q	1,313	Q	13.2
Health Care	1,763	1,333	1,191	1,179	Q	1,176	Q	16.9
Lodging	2,891	1,754	1,332	1,568	Q	1,568	Q	22.1
Mercantile and Service	12,402	4,721	3,710	4,286	2,179	4,209	Q	18.6
Office	12,319	3,637	2,517	2,983	529	2,903	Q	12.9
Parking Garage	1,652	Q	Q	Q	Q	Q	Q	52.3
Public Assembly	4,556	2,574	Q	2,173	Q	2,155	Q	50.9
Public Order and Safety	820	Q	Q	Q	Q	Q	Q	45.7
Religious Worship	3,747	620	Q	411	Q	411	Q	31.5
Warehouse and Storage	11,484	1,372	943	624	Q	624	Q	21.7
Other	1,130	369	211	329	Q	314	Q	35.0
Vacant	4,396	828	424	Q	Q	592	Q	45.9
Year Constructed								
1899 or Before	1,721	471	297	407	Q	407	Q	20.7
1900 to 1919	3,608	1,373	662	1,222	Q	1,222	Q	30.9
1920 to 1945	8,712	2,600	1,741	2,245	Q	2,029	Q	17.2
1946 to 1959	10,421	3,252	2,061	2,565	266	2,524	242	12.4
1960 to 1969	12,612	5,346	4,015	4,280	1,060	4,166	239	17.1
1970 to 1979	14,014	5,627	4,707	4,507	787	4,471	170	13.2
1980 to 1989	14,287	5,738	4,441	4,889	1,006	4,807	206	19.1
1990 to 1992	2,502	1,006	755	879	221	852	Q	22.3
Census Region								
Northeast	13,400	6,350	4,873	5,216	1,293	5,071	265	14.1
Midwest	17,280	6,572	4,779	5,431	953	5,309	310	11.7
South	24,577	8,299	6,056	6,722	871	6,588	404	15.4
West	12,619	4,192	2,971	3,626	729	3,509	102	14.4
Energy Sources (more than one may apply)								
Electricity	66,549	25,406	18,680	20,987	3,846	20,470	1,082	7.9
Natural Gas	45,097	20,308	14,900	16,781	3,356	16,350	790	7.7
Fuel Oil	13,218	7,895	6,473	6,444	1,112	6,231	242	10.7
District Heat	5,339	2,809	2,302	2,443	295	2,297	Q	18.6
District Chilled Water	2,066	1,143	985	1,073	Q	1,056	Q	29.9
Propane	3,393	1,655	1,366	1,360	Q	1,346	Q	21.5
Any Other	1,551	421	294	386	Q	356	Q	36.0

See footnotes at end of table.

Table A52. Refrigeration Equipment, Floorspace, 1992 (Continued)

Building Characteristics	Total Floorspace (million square feet)							RSE Row Factor
	All Buildings	Refrigeration Equipment Used (more than one may apply)						
		All Buildings	Walk-in	Cases and Cabinets			Type Unspecified	
				Any	Open	Closed		
RSE Column Factor:	0.5	0.8	0.9	0.9	1.8	0.9	2.0	
Energy End Uses (more than one may apply)								
Heated Buildings	61,996	24,956	18,328	20,606	3,607	20,089	1,074	8.0
Air-Conditioned Buildings	57,041	24,152	18,129	20,101	3,806	19,602	979	8.3
Buildings with Water Heating	58,479	25,090	18,523	20,802	3,836	20,284	1,053	8.1
Buildings with Cooking	23,065	20,594	16,061	17,880	3,420	17,550	549	10.0
Buildings with Manufacturing	3,174	790	464	643	Q	513	Q	27.0
Workers (main shift)								
Less than 5	17,944	3,090	Q	2,553	148	2,542	303	29.4
5 to 9	7,524	1,719	928	1,254	168	1,232	Q	14.3
10 to 19	8,077	2,214	1,237	1,717	156	1,699	Q	14.6
20 to 49	10,556	3,701	2,383	2,943	402	2,835	156	13.1
50 to 99	7,763	3,730	2,481	3,082	294	3,064	Q	14.9
100 to 249	7,378	4,341	3,912	3,645	789	3,490	Q	16.5
250 or More	8,633	6,618	5,600	5,801	1,890	5,615	Q	14.5
Weekly Operating Hours								
39 or Fewer	8,246	1,602	764	1,156	Q	1,156	Q	24.8
40 to 48	14,998	3,484	2,213	2,611	268	2,477	267	13.0
49 to 60	14,046	3,650	2,507	2,998	275	2,950	132	13.6
61 to 84	12,062	5,575	3,974	4,707	1,325	4,607	158	13.6
85 to 167	8,467	5,391	4,336	4,629	1,386	4,580	Q	16.7
Open Continuously	10,057	5,713	4,887	4,894	559	4,708	Q	21.7
Energy-Related Space Functions (more than one may apply)								
Commercial Food Preparation	22,166	19,699	15,165	16,981	3,420	16,651	549	8.4
Computer Room	14,199	7,860	6,090	6,429	1,095	6,160	219	10.7
Rooms with Special Ventilation	8,042	4,855	3,868	4,199	670	3,937	Q	12.6
Activity with Large Amounts of Hot Water	6,862	5,393	4,509	4,590	882	4,467	Q	13.9
Multibuilding Facility								
Part of Multibuilding Facility	31,564	12,528	10,009	10,872	2,119	10,462	388	13.4
with Central Physical Plant	8,395	4,042	3,309	3,702	811	3,530	Q	19.3
No Central Physical Plant	23,170	8,486	6,700	7,171	1,309	6,932	310	16.1
Not on Multibuilding Facility	36,312	12,886	8,670	10,122	1,727	10,015	694	7.2

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A53. Water-Heating Equipment, Number of Buildings, 1992
(Thousand)

Building Characteristics	All Buildings	All Buildings With Water Heating	Water-Heating Equipment (more than one may apply)								RSE Row Factor
			Centralized System				Distributed System				
			Total	with Self-Heating Storage Tank	with Tank Heated by Space-Heating Equipment	Other	Total	Residential-Type Storage System	Point-of-Use Heaters	Other	
RSE Column Factor:	0.5	0.5	0.7	0.8	1.8	1.6	0.8	0.8	2.0	2.1	
All Buildings	4,806	3,502	1,994	1,799	103	106	1,557	1,489	56	24	7.8
Building Floorspace (square feet)											
1,001 to 5,000	2,681	1,733	1,020	961	28	35	721	699	Q	Q	12.4
5,001 to 10,000	975	787	453	400	36	Q	350	336	13	Q	10.0
10,001 to 25,000	647	539	285	255	13	19	264	254	9	Q	12.4
25,001 to 50,000	280	240	126	102	11	13	118	109	Q	Q	13.2
50,001 to 100,000	116	108	61	48	5	9	53	49	Q	Q	13.5
100,001 to 200,000	71	62	29	20	5	4	34	30	3	Q	16.5
200,001 to 500,000	26	25	16	9	3	4	10	8	2	1	18.6
Over 500,000	9	9	5	Q	1	1	6	4	Q	(*)	29.7
Principal Building Activity											
Education	301	230	140	122	8	13	95	88	Q	Q	15.6
Food Sales	130	124	68	61	Q	Q	56	55	Q	Q	25.0
Food Service	260	259	174	162	Q	Q	90	89	Q	Q	16.1
Health Care	63	62	28	25	2	2	36	33	Q	Q	26.7
Lodging	154	152	90	76	5	12	67	61	Q	Q	20.0
Mercantile and Service	1,272	923	517	465	32	23	414	399	14	Q	12.7
Office	749	705	390	348	29	14	325	312	14	4	13.3
Parking Garage	24	13	8	6	Q	Q	5	5	Q	Q	57.5
Public Assembly	278	235	153	143	5	7	86	80	Q	Q	16.7
Public Order and Safety	60	58	37	27	Q	Q	23	19	Q	Q	33.7
Religious Worship	366	265	145	136	Q	Q	124	122	Q	Q	17.7
Warehouse and Storage	761	311	162	157	Q	Q	152	149	Q	Q	14.7
Other	69	43	29	24	Q	Q	14	12	Q	Q	32.5
Vacant	319	121	54	49	Q	Q	68	66	Q	Q	20.9
Year Constructed											
1899 or Before	169	126	86	77	Q	Q	44	41	Q	Q	22.7
1900 to 1919	255	202	125	110	Q	Q	81	79	Q	Q	20.2
1920 to 1945	724	507	295	253	20	23	220	216	Q	Q	13.4
1946 to 1959	880	638	381	348	16	19	265	255	Q	Q	12.7
1960 to 1969	783	580	316	282	15	22	267	261	4	3	14.9
1970 to 1979	982	721	401	368	20	15	327	306	17	4	13.4
1980 to 1989	884	649	342	318	10	15	322	303	19	4	13.9
1990 to 1992	128	79	47	43	Q	Q	31	27	4	Q	27.3
Census Region											
Northeast	771	625	448	364	55	34	183	169	13	3	15.0
Midwest	1,202	906	565	523	20	25	359	342	10	9	16.2
South	1,963	1,307	667	619	19	34	655	634	18	6	15.3
West	870	664	313	293	9	13	361	343	17	5	18.8
Energy Sources (more than one may apply)											
Electricity	4,616	3,502	1,994	1,799	103	106	1,557	1,489	56	24	7.8
Natural Gas	2,665	2,333	1,325	1,205	57	68	1,046	998	41	19	9.2
Fuel Oil	559	435	300	231	48	28	142	131	11	3	16.6
District Heat	95	82	57	35	7	18	26	22	1	4	20.6
District Chilled Water	28	22	17	12	Q	4	5	5	Q	Q	32.5
Propane	337	244	146	130	Q	Q	103	100	Q	Q	26.0
Any Other	163	96	62	55	Q	Q	39	38	Q	Q	28.0

See footnotes at end of table.

Table A53. Water-Heating Equipment, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	All Buildings With Water Heating	Water-Heating Equipment (more than one may apply)								RSE Row Factor
			Centralized System				Distributed System				
			Total	with Self-Heating Storage Tank	with Tank Heated by Space-Heating Equipment	Other	Total	Residential-Type Storage System	Point-of-Use Heaters	Other	
RSE Column Factor:	0.5	0.5	0.7	0.8	1.8	1.6	0.8	0.8	2.0	2.1	
Energy End Uses (more than one may apply)											
Heated Buildings	4,178	3,436	1,958	1,766	103	103	1,527	1,459	56	24	7.8
Air-Conditioned Buildings	3,502	3,016	1,686	1,519	89	87	1,372	1,307	54	22	8.1
Buildings with Water Heating	3,502	3,502	1,994	1,799	103	106	1,557	1,489	56	24	7.8
Buildings with Cooking	734	728	428	379	23	28	316	293	19	10	11.2
Buildings with Manufacturing	121	102	62	54	Q	Q	43	40	Q	Q	25.0
Workers (main shift)											
Less than 5	2,718	1,609	930	858	30	47	693	672	18	Q	12.4
5 to 9	895	777	448	406	28	17	340	324	Q	Q	11.6
10 to 19	561	512	297	275	11	11	221	213	Q	Q	13.6
20 to 49	405	384	198	168	19	13	196	183	8	8	12.6
50 to 99	130	126	71	58	5	10	61	56	4	Q	15.3
100 to 249	64	62	31	22	4	5	34	30	4	Q	15.4
250 or More	31	31	19	13	4	3	12	10	2	1	16.4
Weekly Operating Hours											
39 or Fewer	1,039	507	316	294	Q	Q	196	190	Q	Q	13.6
40 to 48	1,278	979	523	479	23	25	467	448	16	Q	11.6
49 to 60	1,004	764	434	389	31	14	338	329	7	4	13.3
61 to 84	645	518	287	267	14	11	237	225	12	2	13.6
85 to 167	478	435	267	228	13	25	181	173	Q	Q	14.3
Open Continuously	362	300	168	141	10	20	140	124	11	8	14.7
Energy-Related Space Functions (more than one may apply)											
Commercial Food Preparation	735	729	428	379	23	28	316	295	17	10	11.0
Computer Room	223	211	125	95	17	15	89	78	10	Q	16.4
Rooms with Special Ventilation	236	219	131	107	10	15	92	85	4	4	17.1
Activities with Large Amounts of Hot Water	203	202	124	100	5	21	86	76	9	4	15.3
Multibuilding Facility											
Part of Multibuilding Facility	1,667	1,070	583	504	39	46	504	470	21	17	10.8
with Central Physical Plant	223	175	108	80	11	22	70	58	6	8	18.3
No Central Physical Plant	1,444	895	475	424	28	25	433	411	15	9	12.8
Not on Multibuilding Facility	3,139	2,432	1,411	1,295	64	59	1,054	1,019	35	7	9.4
Water-Heating Energy Sources (more than one may apply)											
Electricity	1,696	1,696	891	851	17	30	822	792	28	7	11.8
Natural Gas	1,647	1,647	961	869	42	55	719	687	26	15	10.7
Fuel Oil	126	126	105	56	37	15	21	18	Q	Q	29.1
District Heat	38	38	31	15	7	12	7	Q	1	3	24.0
Propane	80	80	52	48	Q	Q	31	31	Q	Q	41.2

See footnotes at end of table.

Table A53. Water-Heating Equipment, Number of Buildings, 1992 (Continued)

(Thousand)

Building Characteristics	All Buildings	All Buildings With Water Heating	Water-Heating Equipment (more than one may apply)								RSE Row Factor
			Centralized System				Distributed System				
			Total	with Self-Heating Storage Tank	with Tank Heated by Space-Heating Equipment	Other	Total	Residential-Type Storage System	Point-of-Use Heaters	Other	
RSE Column Factor:	0.5	0.5	0.7	0.8	1.8	1.6	0.8	0.8	2.0	2.1	
Water-Heating Equipment (more than one may apply)											
Centralized System	1,994	1,994	1,994	1,799	103	106	50	39	10	Q	13.9
Self-Heating Tank	1,799	1,799	1,799	1,799	7	Q	38	30	8	Q	18.3
Heated by Space-Heating Equipment	103	103	103	7	103	Q	Q	Q	Q	Q	23.7
Other	106	106	106	Q	Q	106	9	Q	Q	Q	22.4
Distributed System	1,557	1,557	50	38	Q	9	1,557	1,489	56	24	12.9
Residential-Type Storage Tank	1,489	1,489	39	30	Q	Q	1,489	1,489	9	Q	15.0
Point-of-Use Heaters	56	56	10	8	Q	Q	56	9	56	Q	26.4
Other	24	24	Q	Q	Q	Q	24	Q	Q	24	16.4
Off-Hour Equipment Reduction (more than one may apply)											
Heating	3,400	2,745	1,550	1,405	84	69	1,233	1,188	42	12	8.7
Cooling	2,872	2,425	1,345	1,215	72	63	1,111	1,069	41	10	9.0
Hot Water	578	578	332	292	18	26	258	246	11	2	13.6
Lighting	4,089	3,125	1,788	1,623	92	82	1,379	1,327	45	16	8.3
Other	547	452	299	277	19	4	157	153	7	Q	19.0

(*) = Value rounds to zero in the units displayed.

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A54. Water-Heating Equipment, Floorspace, 1992
(Million Square Feet)

Building Characteristics	Water-Heating Equipment (more than one may apply)										RSE Row Factor
	All Buildings	All Buildings With Water Heating	Centralized System				Distributed System				
			Total	with Self-Heating Storage Tank	with Tank Heated by Space-Heating Equipment	Other	Total	Residential-Type Storage System	Point-of-Use Heaters	Other	
RSE Column Factor:	0.5	0.5	0.7	0.8	1.7	1.3	0.8	0.8	2.3	2.0	
All Buildings	67,876	58,479	31,599	24,464	3,722	4,032	29,502	25,809	3,367	1,259	8.6
Building Floorspace (square feet)											
1,001 to 5,000	7,327	4,928	2,918	2,755	78	99	2,033	1,964	Q	Q	12.9
5,001 to 10,000	7,199	5,834	3,337	2,968	253	Q	2,618	2,511	99	Q	9.7
10,001 to 25,000	10,375	8,724	4,638	4,143	207	335	4,252	4,071	159	Q	12.3
25,001 to 50,000	10,069	8,637	4,566	3,688	430	457	4,256	3,928	Q	Q	14.0
50,001 to 100,000	8,062	7,489	4,243	3,356	326	624	3,686	3,430	Q	Q	13.8
100,001 to 200,000	9,678	8,492	3,968	2,778	715	634	4,681	4,076	430	Q	15.9
200,001 to 500,000	7,889	7,466	4,725	2,643	969	1,263	3,104	2,661	468	226	18.5
Over 500,000	7,278	6,910	3,204	Q	745	484	4,871	3,168	Q	337	27.8
Principal Building Activity											
Education	8,470	8,036	5,536	3,970	929	846	2,764	2,596	Q	Q	14.1
Food Sales	757	739	413	357	Q	Q	326	319	Q	Q	27.3
Food Service	1,491	1,490	983	811	Q	Q	545	507	Q	Q	20.2
Health Care	1,763	1,760	1,235	664	273	331	596	402	Q	Q	22.6
Lodging	2,891	2,869	2,032	1,332	194	553	957	678	Q	Q	21.9
Mercantile and Service	12,402	10,809	4,630	4,042	298	315	6,351	5,555	909	Q	16.5
Office	12,319	12,030	6,717	4,626	1,066	1,069	5,880	5,189	629	332	12.2
Parking Garage	1,652	933	361	348	Q	Q	Q	Q	Q	Q	57.8
Public Assembly	4,556	4,346	3,056	2,677	243	255	2,404	1,370	Q	Q	38.9
Public Order and Safety	820	804	626	342	Q	Q	208	124	Q	Q	40.4
Religious Worship	3,747	3,384	1,790	1,518	Q	Q	1,635	1,615	Q	Q	21.2
Warehouse and Storage	11,484	7,887	2,753	2,569	Q	Q	5,249	5,121	Q	Q	17.2
Other	1,130	1,001	497	381	Q	Q	515	493	Q	Q	28.2
Vacant	4,396	2,391	971	828	Q	Q	1,491	1,287	Q	Q	33.9
Year Constructed											
1899 or Before	1,721	1,457	967	745	Q	Q	620	593	Q	Q	25.9
1900 to 1919	3,608	3,126	1,880	1,463	Q	Q	1,313	1,245	Q	Q	29.5
1920 to 1945	8,712	7,004	4,074	3,088	396	661	3,078	2,949	Q	Q	18.0
1946 to 1959	10,421	8,784	5,153	4,057	502	614	3,874	3,686	Q	Q	14.4
1960 to 1969	12,612	11,006	5,523	3,855	1,136	667	5,627	4,867	Q	179	14.6
1970 to 1979	14,014	12,369	6,893	5,243	760	1,064	6,046	5,350	594	277	13.1
1980 to 1989	14,287	12,565	6,014	5,160	427	594	7,833	6,172	Q	362	19.3
1990 to 1992	2,502	2,167	1,095	853	Q	103	1,110	947	227	Q	21.7
Census Region											
Northeast	13,400	12,410	7,854	5,376	1,478	1,217	4,792	3,825	1,043	311	13.7
Midwest	17,280	15,460	9,002	6,922	995	1,196	7,009	6,369	271	440	14.5
South	24,577	19,592	9,298	7,966	663	825	11,836	10,315	Q	299	16.0
West	12,619	11,017	5,445	4,200	587	793	5,866	5,299	510	209	14.6
Energy Sources (more than one may apply)											
Electricity	66,549	58,479	31,599	24,464	3,722	4,032	29,502	25,809	3,367	1,259	8.7
Natural Gas	45,097	43,151	22,563	17,504	2,658	2,928	22,057	19,793	2,105	1,001	8.5
Fuel Oil	13,218	12,605	8,217	5,091	1,858	1,659	5,066	4,242	836	520	12.0
District Heat	5,339	5,177	3,840	1,555	864	1,457	1,492	1,043	283	439	19.3
District Chilled Water	2,066	1,978	1,654	911	210	546	364	264	Q	Q	28.9
Propane	3,393	2,961	1,767	1,424	352	Q	1,352	1,244	Q	Q	22.2
Any Other	1,551	1,287	735	568	Q	Q	643	601	Q	Q	37.5

See footnotes at end of table.

Table A54. Water-Heating Equipment, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	All Buildings	All Buildings With Water Heating	Water-Heating Equipment (more than one may apply)								RSE Row Factor
			Centralized System				Distributed System				
			Total	with Self-Heating Storage Tank	with Tank Heated by Space-Heating Equipment	Other	Total	Residential-Type Storage System	Point-of-Use Heaters	Other	
RSE Column Factor:	0.5	0.5	0.7	0.8	1.7	1.3	0.8	0.8	2.3	2.0	
Energy End Uses (more than one may apply)											
Heated Buildings	61,996	57,708	31,163	24,052	3,722	4,007	29,166	25,478	3,364	1,259	8.7
Air-Conditioned Buildings	57,041	53,839	28,896	22,235	3,586	3,649	27,509	23,914	3,332	1,198	9.0
Buildings with Water Heating	58,479	58,479	31,599	24,464	3,722	4,032	29,502	25,809	3,367	1,259	8.7
Buildings with Cooking	23,065	22,993	13,455	9,266	2,165	2,412	11,484	8,740	2,504	802	13.1
Buildings with Manufacturing	3,174	2,976	1,250	1,000	Q	Q	1,829	1,699	Q	Q	23.2
Workers (main shift)											
Less than 5	17,944	11,207	6,452	5,923	239	320	5,740	4,678	Q	Q	20.5
5 to 9	7,524	6,432	3,656	3,111	298	275	2,890	2,780	Q	Q	13.8
10 to 19	8,077	7,089	3,982	3,626	148	208	3,182	3,070	Q	Q	14.9
20 to 49	10,556	10,215	4,868	3,821	517	574	5,571	5,154	286	232	13.5
50 to 99	7,763	7,644	3,922	2,843	535	705	4,101	3,726	299	Q	16.8
100 to 249	7,378	7,278	3,725	2,403	727	761	3,869	3,374	449	Q	18.7
250 or More	8,633	8,613	4,995	2,737	1,259	1,189	4,148	3,027	1,145	512	15.7
Weekly Operating Hours											
39 or Fewer	8,246	5,005	2,981	2,537	Q	Q	2,117	2,031	Q	Q	17.3
40 to 48	14,998	12,613	6,552	5,425	646	543	6,489	6,081	422	Q	12.6
49 to 60	14,046	12,405	6,404	5,035	584	833	6,263	5,964	293	146	12.1
61 to 84	12,062	11,308	5,310	4,286	648	487	6,277	5,765	560	165	14.8
85 to 167	8,467	8,020	4,154	2,994	504	657	4,095	3,275	Q	Q	17.3
Open Continuously	10,057	9,128	6,199	4,186	1,144	1,244	4,261	2,693	Q	492	21.6
Energy-Related Space Functions (more than one may apply)											
Commercial Food Preparation	22,166	22,095	12,560	8,370	2,165	2,412	10,582	8,737	1,605	802	10.6
Computer Room	14,199	13,947	7,891	4,783	1,846	1,557	6,723	5,717	1,023	511	12.1
Rooms with Special Ventilation	8,042	7,890	5,146	3,191	1,151	962	3,115	2,667	449	363	14.4
Activities with Large Amounts of Hot Water	6,862	6,857	4,482	2,764	743	1,080	2,792	2,187	511	330	16.3
Multibuilding Facility											
Part of Multibuilding Facility	31,564	26,766	14,041	9,819	2,200	2,440	14,372	11,519	2,518	910	12.8
with Central Physical Plant	8,395	7,895	5,004	2,486	1,111	1,493	3,083	2,058	796	543	17.9
No Central Physical Plant	23,170	18,872	9,037	7,333	1,089	948	11,289	9,461	Q	367	15.8
Not on Multibuilding Facility	36,312	31,713	17,559	14,645	1,522	1,591	15,130	14,289	849	350	8.6
Water-Heating Energy Sources (more than one may apply)											
Electricity	25,482	25,482	11,504	10,388	514	773	15,671	14,008	Q	439	14.8
Natural Gas	29,962	29,962	16,228	12,906	1,706	2,130	14,816	13,174	1,467	757	9.8
Fuel Oil	2,470	2,470	2,127	1,062	984	257	397	273	Q	Q	27.3
District Heat	3,308	3,308	2,889	915	841	1,170	528	155	138	257	21.4
Propane	659	659	467	425	Q	Q	245	241	Q	Q	41.6

See footnotes at end of table.

Table A54. Water-Heating Equipment, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	All Buildings	All Buildings With Water Heating	Water-Heating Equipment (more than one may apply)								RSE Row Factor
			Centralized System				Distributed System				
			Total	with Self-Heating Storage Tank	with Tank Heated by Space-Heating Equipment	Other	Total	Residential-Type Storage System	Point-of-Use Heaters	Other	
RSE Column Factor:	0.5	0.5	0.7	0.8	1.7	1.3	0.8	0.8	2.3	2.0	
Water-Heating Equipment (more than one may apply)											
Centralized System	31,599	31,599	31,599	24,464	3,722	4,032	2,622	1,380	Q	Q	13.0
Self-Heating Tank	24,464	24,464	24,464	24,464	500	Q	2,314	1,186	Q	Q	17.7
Heated by Space-Heating Equipment	3,722	3,722	3,722	500	3,722	Q	Q	Q	Q	Q	21.9
Other	4,032	4,032	4,032	Q	Q	4,032	164	Q	Q	Q	18.3
Distributed System	29,502	29,502	2,622	2,314	Q	164	29,502	25,809	3,367	1,259	17.0
Residential-Type Storage Tank	25,809	25,809	1,380	1,186	Q	Q	25,809	25,809	727	Q	12.5
Point-of-Use Heaters	3,367	3,367	Q	Q	Q	Q	3,367	727	3,367	Q	37.0
Other	1,259	1,259	Q	Q	Q	Q	1,259	Q	Q	1,259	21.6
Off-Hour Equipment Reduction (more than one may apply)											
Heating	46,248	42,817	21,660	16,996	2,410	2,435	22,288	20,255	1,932	723	8.7
Cooling	42,768	40,185	20,206	15,694	2,303	2,379	21,047	19,122	1,849	688	8.8
Hot Water	9,966	9,966	5,736	4,453	604	754	4,556	4,167	332	151	12.1
Lighting	54,944	48,476	25,008	19,951	2,577	2,723	24,757	22,633	2,009	767	8.2
Other	7,996	7,424	4,100	3,368	484	264	3,618	3,312	Q	Q	20.4

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A55. Lighting Equipment, Number of Buildings, 1992
(Thousand)

Building Characteristics	All Buildings	All Lit Buildings	Lighting Equipment Types (more than one may apply)					RSE Row Factor
			Incandescent	Standard Fluorescent	Compact Fluorescent	High-Intensity Discharge	Other	
RSE Column Factor:	0.6	0.6	0.8	0.6	1.6	1.2	2.9	
All Buildings	4,806	4,452	2,509	4,065	206	354	78	5.5
Building Floorspace (square feet)								
1,001 to 5,000	2,681	2,429	1,342	2,145	68	95	37	9.1
5,001 to 10,000	975	920	523	866	50	61	Q	7.9
10,001 to 25,000	647	618	347	591	31	66	16	8.8
25,001 to 50,000	280	268	167	257	24	56	Q	10.2
50,001 to 100,000	116	113	66	110	16	35	Q	10.4
100,001 to 200,000	71	70	43	64	10	22	Q	12.2
200,001 to 500,000	26	25	17	25	6	14	Q	12.7
Over 500,000	9	9	5	9	2	5	Q	26.5
Principal Building Activity								
Education	301	301	128	291	21	34	Q	12.6
Food Sales	130	130	51	130	Q	Q	Q	21.9
Food Service	260	260	213	240	Q	Q	Q	12.3
Health Care	63	63	46	60	6	5	Q	25.4
Lodging	154	153	142	124	21	5	Q	18.5
Mercantile and Service	1,272	1,262	566	1,211	40	91	23	8.5
Office	749	749	415	727	51	38	20	10.0
Parking Garage	24	22	7	19	Q	6	Q	39.5
Public Assembly	278	277	198	245	18	28	Q	10.9
Public Order and Safety	60	59	29	57	Q	Q	Q	28.3
Religious Worship	366	366	315	289	Q	14	Q	16.1
Warehouse and Storage	761	628	311	509	13	90	11	11.3
Other	69	63	32	52	Q	12	Q	26.6
Vacant	319	121	58	110	Q	6	Q	17.2
Year Constructed								
1899 or Before	169	161	136	140	Q	Q	Q	18.5
1900 to 1919	255	232	165	219	9	13	Q	18.2
1920 to 1945	724	659	436	588	27	37	Q	11.2
1946 to 1959	880	813	494	740	26	52	Q	10.5
1960 to 1969	783	735	399	665	36	49	Q	10.2
1970 to 1979	982	909	461	843	44	77	12	10.4
1980 to 1989	884	826	358	770	42	102	34	9.0
1990 to 1992	128	118	59	101	11	20	Q	21.5
Census Region								
Northeast	771	735	435	687	57	53	Q	12.1
Midwest	1,202	1,082	662	995	41	107	9	11.1
South	1,963	1,811	939	1,607	51	142	31	9.9
West	870	824	473	776	57	52	31	13.3
Energy Sources (more than one may apply)								
Electricity	4,616	4,452	2,509	4,065	206	354	78	5.5
Natural Gas	2,665	2,632	1,555	2,486	141	219	54	6.6
Fuel Oil	559	549	311	522	36	53	8	13.9
District Heat	95	95	45	94	13	17	Q	16.9
District Chilled Water	28	28	14	28	2	4	Q	25.6
Propane	337	325	194	292	18	25	Q	19.5
Any Other	163	156	92	133	Q	Q	Q	17.9
Energy End Uses (more than one may apply)								
Heated Buildings	4,178	4,107	2,324	3,850	202	322	72	5.6
Air-Conditioned Buildings	3,502	3,467	1,934	3,281	179	287	67	5.7
Buildings with Water Heating	3,502	3,457	2,040	3,283	186	290	67	5.7
Buildings with Cooking	734	730	546	694	65	72	20	8.1
Buildings with Manufacturing	121	117	63	112	8	25	Q	20.6

See footnotes at end of table.

Table A55. Lighting Equipment, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	All Lit Buildings	Lighting Equipment Types (more than one may apply)					RSE Row Factor
			Incandescent	Standard Fluorescent	Compact Fluorescent	High-Intensity Discharge	Other	
RSE Column Factor:	0.6	0.6	0.8	0.6	1.6	1.2	2.9	
Percent Window Glass								
25 or Less	4,193	3,857	2,111	3,506	163	300	68	5.9
26 to 50	490	478	318	444	35	46	8	9.6
51 to 75	94	91	64	89	6	6	Q	19.5
76 to 100	29	26	15	26	2	2	Q	28.0
Workers (main shift)								
Less than 5	2,718	2,368	1,323	2,066	79	122	31	8.3
5 to 9	895	895	491	848	34	62	15	8.3
10 to 19	561	557	339	530	25	55	Q	10.0
20 to 49	405	405	217	400	28	52	Q	9.6
50 to 99	130	130	78	126	16	34	Q	11.7
100 to 249	64	64	40	64	15	19	Q	12.0
250 or More	31	31	21	31	10	9	2	11.8
Weekly Operating Hours								
39 or Fewer	1,039	765	496	618	13	30	Q	12.4
40 to 48	1,278	1,265	633	1,182	45	109	26	9.0
49 to 60	1,004	974	489	942	46	88	22	8.2
61 to 84	645	633	334	597	44	50	11	8.8
85 to 167	478	471	322	437	29	43	11	11.3
Open Continuously	362	344	234	290	30	33	Q	11.7
Energy-Related Space Functions (more than one may apply)								
Commercial Food Preparation	735	731	547	695	65	72	20	8.1
Computer Room	223	222	120	221	29	45	4	11.7
Rooms with Special Ventilation	236	236	138	227	21	40	Q	13.9
Activity with Large Amounts of Hot Water	203	203	151	196	24	25	Q	11.8
Multibuilding Facility								
Part of Multibuilding Facility	1,667	1,517	809	1,315	71	165	21	8.6
with Central Physical Plant	223	214	95	206	19	35	Q	16.0
No Central Physical Plant	1,444	1,303	713	1,109	52	130	18	9.2
Not on Multibuilding Facility	3,139	2,934	1,700	2,750	135	188	57	6.0
Percent Lit when Open								
Not Lit	413	59	26	48	Q	Q	Q	23.5
1 to 50	881	881	567	780	25	47	17	10.2
51 to 99	813	813	509	771	65	65	14	8.6
100	2,699	2,699	1,408	2,467	117	239	47	7.0
Percent Lit when Closed								
Not Lit	2,987	2,633	1,467	2,315	94	174	45	7.3
1 to 50	1,689	1,689	977	1,632	107	167	33	7.0
51 to 99	43	43	25	43	Q	5	Q	27.9
100	87	87	39	76	Q	Q	Q	26.6
Lighting Equipment Types (more than one may apply)								
Incandescent	2,509	2,509	2,509	2,162	132	161	48	6.6
Standard Fluorescent	4,065	4,065	2,162	4,065	183	312	73	5.2
Compact Fluorescent	206	206	132	183	206	39	7	12.1
High-Intensity Discharge	354	354	161	312	39	354	11	8.7
Other	78	78	48	73	7	11	78	20.9

See footnotes at end of table.

Table A55. Lighting Equipment, Number of Buildings, 1992 (Continued)

(Thousand)

Building Characteristics	All Buildings	All Lit Buildings	Lighting Equipment Types (more than one may apply)					RSE Row Factor
			Incandescent	Standard Fluorescent	Compact Fluorescent	High-Intensity Discharge	Other	
RSE Column Factor:	0.6	0.6	0.8	0.6	1.6	1.2	2.9	
Lighting Conservation Features (more than one may apply)								
Specular Reflectors	574	574	326	533	60	119	14	10.0
Natural Lighting Control								
Sensors	74	74	55	69	13	18	Q	19.2
Occupancy Sensors	59	59	25	58	11	10	Q	17.3
Time Clock	339	339	224	323	33	42	7	12.0
Manual Dimmer Switches	413	413	358	383	52	41	14	10.9
Other	78	78	42	76	13	13	Q	21.4
Off-Hour Equipment Reduction (more than one may apply)								
Heating	3,400	3,358	1,862	3,144	157	258	66	6.1
Cooling	2,872	2,850	1,559	2,696	139	229	61	6.1
Hot Water	578	558	331	520	36	43	8	11.4
Lighting	4,089	4,034	2,231	3,709	174	316	76	5.7
Other	547	543	334	522	42	53	21	13.0

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A56. Lighting Equipment, Floorspace, 1992
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Lit Buildings	Lighting Equipment Types (more than one may apply)					RSE Row Factor
			Incandescent	Standard Fluorescent	Compact Fluorescent	High-Intensity Discharge	Other	
			0.8	0.7	1.4	1.2	2.8	
RSE Column Factor:	0.6	0.7	0.8	0.7	1.4	1.2	2.8	
All Buildings	67,876	65,354	39,221	62,074	8,336	17,570	1,612	5.8
Building Floorspace (square feet)								
1,001 to 5,000	7,327	6,693	3,763	5,927	195	289	113	9.4
5,001 to 10,000	7,199	6,816	3,835	6,422	380	487	Q	7.9
10,001 to 25,000	10,375	9,939	5,550	9,562	507	1,123	227	8.7
25,001 to 50,000	10,069	9,620	6,045	9,191	925	2,089	Q	10.8
50,001 to 100,000	8,062	7,845	4,604	7,594	1,185	2,447	Q	10.2
100,001 to 200,000	9,678	9,627	5,898	8,740	1,375	3,118	Q	12.2
200,001 to 500,000	7,889	7,663	5,226	7,528	1,745	3,932	Q	13.3
Over 500,000	7,278	7,151	4,300	7,110	2,024	4,085	407	22.7
Principal Building Activity								
Education	8,470	8,470	5,368	8,379	846	3,186	Q	10.5
Food Sales	757	757	331	757	Q	Q	Q	24.7
Food Service	1,491	1,491	1,284	1,430	Q	Q	Q	14.5
Health Care	1,763	1,763	1,446	1,754	647	551	Q	18.1
Lodging	2,891	2,889	2,698	2,768	815	328	Q	21.5
Mercantile and Service	12,402	12,368	6,516	12,059	1,432	3,075	274	14.5
Office	12,319	12,319	7,946	12,167	2,719	2,359	507	9.0
Parking Garage	1,652	1,649	310	1,424	Q	1,094	Q	40.5
Public Assembly	4,556	4,553	2,780	4,406	578	1,177	Q	23.8
Public Order and Safety	820	809	388	803	Q	Q	Q	36.3
Religious Worship	3,747	3,747	3,427	3,424	Q	188	Q	19.8
Warehouse and Storage	11,484	10,893	4,760	9,255	414	4,365	260	15.5
Other	1,130	1,113	638	1,070	Q	370	Q	23.2
Vacant	4,396	2,534	1,329	2,379	Q	445	Q	26.0
Year Constructed								
1899 or Before	1,721	1,665	1,303	1,515	Q	Q	Q	18.8
1900 to 1919	3,608	3,299	2,412	3,227	349	504	Q	23.2
1920 to 1945	8,712	8,226	5,674	7,697	837	1,798	Q	16.0
1946 to 1959	10,421	9,959	6,729	9,166	639	2,116	Q	13.2
1960 to 1969	12,612	12,279	7,220	11,720	1,764	3,382	Q	13.5
1970 to 1979	14,014	13,609	7,853	13,070	1,958	3,734	293	9.7
1980 to 1989	14,287	13,857	6,724	13,434	1,933	4,682	582	11.9
1990 to 1992	2,502	2,461	1,305	2,244	719	1,217	110	15.1
Census Region								
Northeast	13,400	13,076	8,905	12,733	2,990	4,623	Q	12.8
Midwest	17,280	16,531	10,724	15,946	1,847	5,841	263	9.4
South	24,577	23,671	12,240	21,658	1,607	4,686	553	10.5
West	12,619	12,076	7,351	11,737	1,891	2,419	437	9.3
Energy Sources (more than one may apply)								
Electricity	66,549	65,354	39,221	62,074	8,336	17,570	1,612	5.9
Natural Gas	45,097	44,847	28,989	43,913	6,297	13,140	1,262	6.7
Fuel Oil	13,218	13,113	9,692	12,959	3,668	5,383	550	9.9
District Heat	5,339	5,318	3,434	5,265	1,168	1,874	Q	14.3
District Chilled Water	2,066	2,066	1,619	2,060	434	572	Q	23.1
Propane	3,393	3,344	2,239	3,253	624	1,110	Q	17.1
Any Other	1,551	1,514	854	1,439	Q	Q	Q	27.9
Energy End Uses (more than one may apply)								
Heated Buildings	61,996	61,448	37,268	59,873	8,215	16,581	1,529	6.0
Air-Conditioned Buildings	57,041	56,642	34,240	55,594	7,950	15,956	1,463	6.3
Buildings with Water Heating	58,479	58,095	36,008	56,893	8,080	16,337	1,484	6.1
Buildings with Cooking	23,065	23,024	17,061	22,821	5,206	7,952	866	9.7
Buildings with Manufacturing	3,174	3,144	1,708	3,093	327	1,437	Q	19.8

See footnotes at end of table.

Table A56. Lighting Equipment, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Lit Buildings	Lighting Equipment Types (more than one may apply)					RSE Row Factor
			Incandescent	Standard Fluorescent	Compact Fluorescent	High-Intensity Discharge	Other	
RSE Column Factor:	0.6	0.7	0.8	0.7	1.4	1.2	2.8	
Percent Window Glass								
25 or Less	51,356	49,184	27,146	46,188	4,412	12,920	1,205	6.5
26 to 50	11,815	11,509	8,723	11,284	2,570	3,698	295	11.2
51 to 75	3,206	3,179	2,382	3,127	904	655	Q	14.7
76 to 100	1,499	1,482	969	1,474	450	296	Q	22.0
Workers (main shift)								
Less than 5	17,944	15,476	8,540	13,520	714	1,777	270	14.4
5 to 9	7,524	7,524	4,231	7,100	381	1,174	251	11.8
10 to 19	8,077	8,022	4,618	7,490	376	1,624	Q	12.9
20 to 49	10,556	10,556	5,703	10,414	886	2,685	Q	9.9
50 to 99	7,763	7,763	4,648	7,646	1,089	2,920	Q	12.4
100 to 249	7,378	7,378	4,910	7,334	1,405	3,280	Q	15.3
250 or More	8,633	8,633	6,571	8,570	3,485	4,111	512	13.5
Weekly Operating Hours								
39 or Fewer	8,246	6,145	3,940	5,447	290	936	Q	14.1
40 to 48	14,998	14,895	8,138	13,833	1,126	2,914	320	9.1
49 to 60	14,046	13,917	8,364	13,398	1,626	3,545	318	8.3
61 to 84	12,062	11,996	7,105	11,710	1,795	3,559	367	10.7
85 to 167	8,467	8,433	5,692	8,266	1,556	3,148	Q	15.4
Open Continuously	10,057	9,969	5,981	9,421	1,943	3,468	Q	15.2
Energy-Related Space Functions (more than one may apply)								
Commercial Food Preparation	22,166	22,126	17,061	21,923	5,206	7,952	866	8.9
Computer Room	14,199	14,183	9,094	14,066	3,658	5,883	592	9.7
Rooms with Special Ventilation	8,042	8,036	5,370	7,976	1,509	3,153	Q	10.7
Activity with Large Amounts of Hot Water	6,862	6,862	5,572	6,819	1,767	2,578	Q	12.8
Multibuilding Facility								
Part of Multibuilding Facility	31,564	30,480	17,558	28,305	4,290	10,181	720	9.4
with Central Physical Plant	8,395	8,288	5,167	8,078	1,925	3,287	Q	15.9
No Central Physical Plant	23,170	22,193	12,392	20,227	2,365	6,894	509	10.5
Not on Multibuilding Facility	36,312	34,874	21,662	33,769	4,046	7,388	892	5.8
Percent Lit when Open								
Not Lit	3,280	757	391	675	Q	Q	Q	33.4
1 to 50	9,980	9,980	6,575	8,848	547	1,410	295	13.5
51 to 99	14,224	14,224	9,350	13,892	2,410	3,782	418	11.1
100	40,393	40,393	22,906	38,658	5,378	12,324	900	7.1
Percent Lit when Closed								
Not Lit	34,486	31,963	18,367	29,325	3,314	7,394	923	8.1
1 to 50	31,482	31,482	19,880	30,950	4,791	9,658	639	7.3
51 to 99	1,021	1,021	667	1,021	Q	355	Q	26.6
100	887	887	306	777	Q	Q	Q	29.9
Lighting Equipment Types (more than one may apply)								
Incandescent	39,221	39,221	39,221	36,935	6,590	10,037	1,157	6.4
Standard Fluorescent	62,074	62,074	36,935	62,074	8,111	16,557	1,493	6.0
Compact Fluorescent	8,336	8,336	6,590	8,111	8,336	3,746	368	11.6
High-Intensity Discharge	17,570	17,570	10,037	16,557	3,746	17,570	673	9.8
Other	1,612	1,612	1,157	1,493	368	673	1,612	22.3

See footnotes at end of table.

Table A56. Lighting Equipment, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Lit Buildings	Lighting Equipment Types (more than one may apply)					RSE Row Factor
			Incandescent	Standard Fluorescent	Compact Fluorescent	High-Intensity Discharge	Other	
RSE Column Factor:	0.6	0.7	0.8	0.7	1.4	1.2	2.8	
Lighting Conservation Features (more than one may apply)								
Specular Reflectors	15,241	15,241	10,321	14,714	4,117	6,900	664	10.6
Natural Lighting Control								
Sensors	3,072	3,072	2,394	3,004	1,090	1,635	Q	15.2
Occupancy Sensors	3,629	3,629	2,288	3,601	1,263	1,474	Q	13.5
Time Clock	12,104	12,104	8,318	11,853	3,413	4,488	398	14.5
Manual Dimmer Switches	12,329	12,329	10,505	12,139	4,058	4,313	586	11.2
Other	2,596	2,596	1,461	2,552	893	904	Q	14.1
Off-Hour Equipment Reduction (more than one may apply)								
Heating	46,248	45,960	27,823	44,726	5,812	12,443	1,208	6.2
Cooling	42,768	42,619	25,769	41,757	5,617	11,986	1,150	6.4
Hot Water	9,966	9,807	6,665	9,483	1,659	3,081	158	10.1
Lighting	54,944	54,489	32,756	51,840	6,317	14,013	1,325	5.5
Other	7,996	7,961	4,989	7,831	1,170	2,170	228	14.9

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A57. Energy Conservation Features, Number of Buildings and Floorspace, 1992

Building Characteristics	Number of Buildings (thousand)						Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	Any Conservation Features	Building Shell	HVAC	Lighting	Other	All Buildings	Any Conservation Features	Building Shell	HVAC	Lighting	Other	
	RSE Column Factor:	0.8	0.8	0.8	0.9	1.0	1.9	0.8	0.9	0.9	0.9	1.2	
All Buildings	4,806	4,357	4,223	2,604	1,178	264	67,876	64,403	62,056	50,281	29,453	5,952	4.7
Building Floorspace (square feet)													
1,001 to 5,000	2,681	2,376	2,305	1,194	452	102	7,327	6,575	6,375	3,370	1,302	291	7.4
5,001 to 10,000	975	887	864	569	275	62	7,199	6,566	6,405	4,221	2,066	467	5.6
10,001 to 25,000	647	610	587	447	241	50	10,375	9,788	9,403	7,257	3,952	821	6.5
25,001 to 50,000	280	268	259	208	106	25	10,069	9,597	9,270	7,503	3,884	896	8.4
50,001 to 100,000	116	113	111	98	47	14	8,062	7,874	7,683	6,797	3,420	917	9.2
100,001 to 200,000	71	68	66	57	36	8	9,678	9,271	8,935	7,699	4,821	1,020	10.3
200,001 to 500,000	26	25	23	23	14	2	7,889	7,479	7,098	6,946	4,557	740	11.9
Over 500,000	9	9	9	9	7	1	7,278	7,254	6,887	6,488	5,452	799	24.2
Principal Building Activity													
Education	301	300	296	245	74	27	8,470	8,457	8,379	7,719	3,297	922	9.3
Food Sales	130	119	114	70	20	Q	757	695	656	510	197	Q	19.7
Food Service	260	251	245	166	92	Q	1,491	1,465	1,451	1,073	546	Q	11.2
Health Care	63	63	63	47	26	6	1,763	1,735	1,735	1,664	1,304	368	15.6
Lodging	154	152	150	120	51	12	2,891	2,868	2,825	2,585	1,340	379	15.4
Mercantile and Service	1,272	1,186	1,141	643	293	56	12,402	12,038	11,667	8,905	5,339	1,003	9.2
Office	749	727	722	534	220	41	12,319	12,239	12,185	11,004	7,042	904	7.2
Parking Garage	24	20	16	10	5	Q	1,652	1,303	678	753	748	Q	33.9
Public Assembly	278	269	262	175	96	21	4,556	4,501	4,341	3,959	2,969	410	15.6
Public Order and Safety	60	59	59	46	19	Q	820	818	818	762	205	Q	23.7
Religious Worship	366	355	347	199	101	31	3,747	3,707	3,657	2,759	1,652	526	12.9
Warehouse and Storage	761	555	511	256	135	30	11,484	9,764	9,082	5,812	3,323	711	10.3
Other	69	58	56	34	22	Q	1,130	1,099	1,032	968	589	Q	17.9
Vacant	319	242	240	60	25	Q	4,396	3,716	3,550	1,808	901	Q	16.2
Year Constructed													
1899 or Before	169	159	155	95	65	Q	1,721	1,662	1,620	1,229	659	Q	16.1
1900 to 1919	255	235	230	137	65	20	3,608	3,325	3,269	2,662	1,368	406	16.1
1920 to 1945	724	641	615	328	173	31	8,712	7,841	7,532	5,313	2,943	604	10.8
1946 to 1959	880	782	761	445	169	41	10,421	9,752	9,484	6,726	3,384	677	9.0
1960 to 1969	783	716	697	442	180	38	12,612	12,053	11,695	9,812	5,219	1,247	9.1
1970 to 1979	982	889	850	556	235	59	14,014	13,464	12,754	10,636	6,680	1,430	7.6
1980 to 1989	884	812	797	526	243	55	14,287	13,886	13,365	11,800	7,572	1,185	9.2
1990 to 1992	128	121	117	76	48	9	2,502	2,419	2,338	2,103	1,627	275	14.2
Census Region													
Northeast	771	711	693	504	241	57	13,400	12,891	12,612	10,840	6,727	1,626	9.0
Midwest	1,202	1,097	1,076	626	295	67	17,280	16,619	16,031	13,100	7,790	1,575	8.1
South	1,963	1,737	1,667	980	375	85	24,577	22,659	21,758	16,864	8,307	1,757	9.1
West	870	812	787	494	268	55	12,619	12,234	11,655	9,477	6,628	993	9.3
Energy Sources (more than one may apply)													
Electricity	4,616	4,258	4,124	2,604	1,178	263	66,549	63,709	61,362	50,281	29,453	5,927	4.7
Natural Gas	2,665	2,542	2,467	1,660	778	175	45,097	44,303	43,053	36,273	21,197	4,733	5.4
Fuel Oil	559	541	526	397	190	56	13,218	13,125	12,996	12,104	8,603	1,830	9.9
District Heat	95	95	90	86	50	10	5,339	5,316	5,135	5,146	3,046	687	12.6
District Chilled Water	28	28	27	28	14	Q	2,066	2,066	2,007	2,063	1,152	224	19.7
Propane	337	331	321	172	77	18	3,393	3,376	3,339	2,506	1,439	201	15.5
Any Other	163	155	150	70	32	Q	1,551	1,494	1,472	912	552	Q	19.6

See footnotes at end of table.

Table A57. Energy Conservation Features, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)						Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	Any Conservation Features	Building Shell	HVAC	Lighting	Other	All Buildings	Any Conservation Features	Building Shell	HVAC	Lighting	Other	
	0.8	0.8	0.8	0.9	1.0	1.9	0.8	0.9	0.9	0.9	1.2	1.7	
RSE Column Factor:	0.8	0.8	0.8	0.9	1.0	1.9	0.8	0.9	0.9	0.9	1.2	1.7	
Energy End Uses (more than one may apply)													
Heated Buildings	4,178	3,996	3,881	2,568	1,122	260	61,996	60,736	58,915	49,515	28,384	5,793	4.7
Air-Conditioned Buildings	3,502	3,376	3,285	2,271	997	227	57,041	56,223	54,488	46,884	27,166	5,425	4.9
Buildings with Water Heating	3,502	3,392	3,298	2,275	1,042	232	58,479	57,571	55,914	47,711	27,924	5,618	4.7
Buildings with Cooking	734	727	707	548	275	52	23,065	23,031	22,814	21,458	13,887	2,615	7.5
Buildings with Manufacturing	121	119	112	74	49	18	3,174	3,151	3,050	2,260	1,624	545	16.2
Floors													
One	3,007	2,620	2,530	1,414	541	128	25,424	22,938	22,066	15,331	7,256	1,563	7.9
Two	1,154	1,105	1,077	719	368	82	18,025	17,520	17,097	14,092	7,994	1,866	6.0
Three	446	435	424	313	166	36	9,877	9,776	9,558	8,398	5,049	873	8.4
Four to Nine	186	184	179	145	93	15	10,377	9,997	9,289	8,360	5,841	1,182	11.0
Ten or More	13	13	13	13	10	2	4,173	4,173	4,046	4,100	3,313	468	16.5
Ownership and Occupancy													
Nongovernment Owned	4,206	3,792	3,684	2,172	1,022	219	52,752	49,630	47,889	37,005	22,860	4,398	5.0
Owner Occupied	3,192	2,929	2,841	1,763	810	192	38,403	36,377	35,043	27,762	16,990	3,763	4.6
Nonowner Occupied	817	717	699	387	202	24	12,273	11,630	11,369	8,755	5,551	536	10.9
Unoccupied	197	145	144	21	9	Q	2,077	1,624	1,477	488	319	Q	18.9
Government Owned	599	565	539	432	156	44	15,124	14,773	14,168	13,276	6,593	1,554	8.1
Percent of Floorspace Heated													
Not Heated	653	383	363	46	60	Q	6,211	3,976	3,439	949	1,203	Q	17.9
1 to 50	688	626	605	331	132	25	11,195	10,534	9,852	7,172	3,723	463	10.6
51 to 99	618	601	585	366	214	36	10,211	10,131	9,861	7,771	5,463	1,073	8.8
100	2,846	2,746	2,670	1,861	772	199	40,260	39,762	38,905	34,389	19,063	4,257	5.0
Percent of Floorspace Cooled													
Not Cooled	1,304	980	938	333	181	37	10,835	8,180	7,569	3,397	2,287	527	9.9
1 to 50	1,176	1,125	1,079	690	320	73	21,715	21,269	20,089	15,879	8,224	1,836	6.6
51 to 99	658	646	630	446	223	55	13,872	13,768	13,541	12,333	7,985	1,711	8.2
100	1,668	1,606	1,575	1,135	453	99	21,454	21,186	20,858	18,672	10,957	1,877	7.1
Percent Lit when Open													
Not Lit	413	244	241	30	Q	Q	3,280	2,243	2,110	638	Q	Q	16.8
1 to 50	881	785	762	426	197	36	9,980	9,131	8,863	6,140	3,352	792	8.6
51 to 99	813	791	768	523	290	75	14,224	14,110	13,846	11,807	7,914	1,711	8.5
100	2,699	2,537	2,452	1,624	679	145	40,393	38,919	37,237	31,696	17,945	3,391	5.3
Heating Equipment (more than one may apply)													
Heat Pumps	449	441	435	323	148	29	8,269	8,230	8,053	6,847	4,245	675	10.3
Furnaces	1,692	1,640	1,605	1,028	427	118	16,909	16,632	16,246	12,184	6,275	1,301	6.8
Individual Space Heaters	1,464	1,371	1,327	724	374	79	22,380	21,647	20,986	16,301	10,200	2,479	6.8
District Heat	93	93	89	85	49	10	5,225	5,202	5,021	5,047	2,969	631	12.7
Boilers	624	616	602	487	239	66	20,664	20,594	20,141	18,645	11,665	2,640	7.1
Packaged Heating Units	870	836	811	604	256	53	16,000	15,778	15,456	12,832	7,681	1,275	8.3
Other	42	42	42	25	15	Q	903	903	889	838	571	Q	24.7

See footnotes at end of table.

Table A57. Energy Conservation Features, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)						Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	Any Conservation Features	Building Shell	HVAC	Lighting	Other	All Buildings	Any Conservation Features	Building Shell	HVAC	Lighting	Other	
	0.8	0.8	0.8	0.9	1.0	1.9	0.8	0.9	0.9	0.9	1.2	1.7	
RSE Column Factor:	0.8	0.8	0.8	0.9	1.0	1.9	0.8	0.9	0.9	0.9	1.2	1.7	
Cooling Equipment (more than one may apply)													
Residential-Type Central Air Conditioners	816	791	780	508	226	53	9,021	8,822	8,655	6,842	3,703	984	9.4
Heat Pumps	454	447	441	326	142	27	8,406	8,376	8,244	6,978	4,319	687	10.0
Individual Air Conditioners	1,023	964	935	581	259	60	17,979	17,621	16,995	13,842	7,780	1,757	9.2
District Chilled Water	28	28	27	28	14	Q	2,066	2,066	2,007	2,063	1,152	224	19.7
Central Chillers	142	141	140	129	77	14	12,991	12,950	12,739	12,569	9,301	1,906	10.9
Packaged Air-Conditioning Units	1,459	1,421	1,375	1,028	468	104	27,830	27,573	26,845	23,508	13,211	2,667	6.2
Swamp Coolers	179	171	164	109	56	Q	2,085	2,062	2,020	1,697	1,115	Q	22.4
Other	8	8	8	4	Q	Q	268	268	268	181	Q	Q	48.6
Lighting Equipment Types (more than one may apply)													
Incandescent	2,509	2,364	2,304	1,471	768	171	39,221	38,196	37,436	31,251	19,761	4,049	5.3
Standard Fluorescent	4,065	3,851	3,734	2,457	1,100	248	62,074	60,445	58,496	49,090	28,649	5,719	4.5
Compact Fluorescent	206	203	200	154	106	22	8,336	8,321	8,283	7,885	6,649	1,294	10.0
High-Intensity Discharge	354	337	316	237	166	39	17,570	17,188	16,304	14,328	10,593	2,206	7.8
Other	78	73	72	52	32	12	1,612	1,603	1,538	1,266	1,074	233	21.1
Water-Heating Equipment (more than one may apply)													
Centralized System	1,994	1,950	1,900	1,325	610	141	31,599	31,322	30,682	26,731	16,074	3,122	7.3
Self-Heating Tank	1,799	1,760	1,714	1,178	522	126	24,464	24,241	23,694	20,029	11,593	2,188	8.2
Heated by Space-Heating Equipment	103	100	99	85	51	10	3,722	3,713	3,670	3,530	2,470	358	16.3
Other	106	104	101	75	46	9	4,032	3,987	3,936	3,791	2,473	667	13.9
Distributed System	1,557	1,491	1,447	989	462	97	29,502	28,871	27,855	23,497	13,877	2,682	7.2
Residential-Type Storage Tank	1,489	1,423	1,379	932	433	88	25,809	25,182	24,166	19,873	11,047	2,335	7.1
Point-of-Use Heaters	56	56	56	45	26	11	3,367	3,364	3,364	3,306	2,728	427	23.7
Other	24	24	24	23	12	3	1,259	1,259	1,259	1,235	677	331	18.6
Building Shell Conservation Features (more than one may apply)													
Roof or Ceiling Insulation	3,343	3,343	3,343	2,104	974	219	50,311	50,311	50,311	40,883	24,203	5,180	4.7
Wall Insulation	2,320	2,320	2,320	1,472	697	161	33,240	33,240	33,240	27,448	17,643	3,509	5.6
Storm or Multiple Glazing	1,680	1,680	1,680	1,170	566	137	29,684	29,684	29,684	25,702	15,921	3,207	6.3
Tinted, Reflective or Shading Glass	1,068	1,068	1,068	780	407	90	25,396	25,396	25,396	22,350	15,756	2,914	7.5
Exterior or Interior Shading or Awnings	1,853	1,853	1,853	1,318	594	142	34,071	34,071	34,071	29,261	17,758	3,744	5.9
Windows that Open	2,119	2,119	2,119	1,198	503	130	28,937	28,937	28,937	22,346	11,266	2,790	6.0
HVAC Conservation Features													
Variable Air-Volume System	250	250	244	250	134	24	13,970	13,970	13,900	13,970	10,536	1,814	9.9
Economizer Cycle	414	414	413	414	226	46	18,313	18,313	18,174	18,313	13,273	2,343	8.4
HVAC Maintenance	2,503	2,503	2,411	2,503	837	197	49,173	49,173	47,705	49,173	25,184	5,294	4.9

See footnotes at end of table.

Table A57. Energy Conservation Features, Number of Buildings and Floorspace, 1992 (Continued)

Building Characteristics	Number of Buildings (thousand)						Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	Any Conservation Features	Building Shell	HVAC	Lighting	Other	All Buildings	Any Conservation Features	Building Shell	HVAC	Lighting	Other	
	0.8	0.8	0.8	0.9	1.0	1.9	0.8	0.9	0.9	0.9	1.2	1.7	
RSE Column Factor:	0.8	0.8	0.8	0.9	1.0	1.9	0.8	0.9	0.9	0.9	1.2	1.7	
Lighting Conservation Features (more than one may apply)													
Specular Reflectors	574	574	536	420	574	54	15,241	15,241	14,568	13,372	15,241	2,181	8.3
Natural Lighting													
Control Sensors	74	74	73	55	74	8	3,072	3,072	2,937	2,868	3,072	598	14.6
Occupancy Sensors	59	59	58	49	59	8	3,629	3,629	3,546	3,517	3,629	691	11.8
Time Clock	339	339	328	255	339	30	12,104	12,104	11,748	11,066	12,104	1,439	10.7
Manual Dimmer													
Switches	413	413	408	328	413	39	12,329	12,329	12,233	11,314	12,329	1,739	8.6
Other	78	78	78	70	78	12	2,596	2,596	2,589	2,453	2,596	430	14.2
Energy Conservation Features (more than one may apply)													
Any Conservation													
Features	4,357	4,357	4,223	2,604	1,178	264	64,403	64,403	62,056	50,281	29,453	5,952	4.7
Building Shell	4,223	4,223	4,223	2,511	1,123	255	62,056	62,056	62,056	48,798	28,234	5,755	4.7
HVAC	2,604	2,604	2,511	2,604	871	206	50,281	50,281	48,798	50,281	25,730	5,419	4.8
Lighting	1,178	1,178	1,123	871	1,178	108	29,453	29,453	28,234	25,730	29,453	3,436	6.3
Other	264	264	255	206	108	264	5,952	5,952	5,755	5,419	3,436	5,952	8.5
Energy Management Practices (more than one may apply)													
Energy Management and Control System	236	234	232	213	119	27	14,320	14,254	14,134	13,986	10,627	1,474	9.9
Demand-Side Management Participation	315	314	309	264	166	39	11,310	11,273	11,198	10,668	8,257	1,730	8.8
Energy Audit	521	511	497	397	208	58	14,779	14,509	14,269	13,105	8,976	2,038	7.7
Building Energy Manager	49	49	49	42	18	1	2,311	2,311	2,281	2,242	1,295	165	18.5
Demand-Side Management Programs (more than one may apply)													
Building Shell Program	36	36	36	33	21	Q	1,079	1,079	1,079	1,042	890	Q	19.7
HVAC Program	154	153	149	136	77	25	6,370	6,342	6,298	6,166	4,679	1,122	10.6
Lighting Program	228	227	224	182	131	24	8,805	8,797	8,759	8,250	6,869	1,360	10.5
Other DSM Programs	110	110	109	99	62	15	6,176	6,176	6,146	6,063	4,906	967	13.4

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A58. Building Shell Conservation Features, Number of Buildings, 1992
(Thousand)

Building Characteristics	Type of Building Shell Conservation Features (more than one may apply)								RSE Row Factor
	All Buildings	Any Building Shell Conservation Features	Roof or Ceiling Insulation	Wall Insulation	Storms or Multiple Glazing	Tinted, Reflective or Shading Glass	Exterior or Interior Shadings or Awnings	Windows that Open	
	0.8	0.8	0.9	1.0	1.1	1.3	1.1	1.1	
RSE Column Factor:	0.8	0.8	0.9	1.0	1.1	1.3	1.1	1.1	
All Buildings	4,806	4,223	3,343	2,320	1,680	1,068	1,853	2,119	4.4
Building Floorspace (square feet)									
1,001 to 5,000	2,681	2,305	1,777	1,279	800	445	901	1,181	6.5
5,001 to 10,000	975	864	708	472	390	238	392	425	5.5
10,001 to 25,000	647	587	475	322	263	199	288	296	6.4
25,001 to 50,000	280	259	212	137	123	90	137	120	8.3
50,001 to 100,000	116	111	93	57	56	48	75	54	8.5
100,001 to 200,000	71	66	52	35	29	29	37	30	10.5
200,001 to 500,000	26	23	19	13	13	13	17	11	11.4
Over 500,000	9	9	7	5	5	6	5	3	32.1
Principal Building Activity									
Education	301	296	232	137	86	65	171	235	9.4
Food Sales	130	114	77	61	45	40	45	Q	19.4
Food Service	260	245	214	147	123	74	138	65	10.1
Health Care	63	63	55	41	36	20	49	35	17.0
Lodging	154	150	118	90	72	24	74	124	13.7
Mercantile and Service	1,272	1,141	910	623	401	249	425	459	6.8
Office	749	722	610	448	372	257	487	336	6.6
Parking Garage	24	16	9	9	7	1	Q	12	36.5
Public Assembly	278	262	207	133	96	50	85	145	8.9
Public Order and Safety	60	59	54	37	31	16	30	43	21.7
Religious Worship	366	347	282	208	177	122	112	264	11.9
Warehouse and Storage	761	511	377	250	140	93	145	242	9.4
Other	69	56	38	30	21	9	24	25	19.8
Vacant	319	240	160	109	73	48	64	114	11.6
Year Constructed									
1899 or Before	169	155	100	51	88	30	67	106	14.6
1900 to 1919	255	230	167	89	125	34	94	146	12.5
1920 to 1945	724	615	419	222	218	119	240	360	8.4
1946 to 1959	880	761	549	302	238	172	336	454	7.7
1960 to 1969	783	697	551	364	230	171	297	352	7.6
1970 to 1979	982	850	739	571	332	221	364	346	7.3
1980 to 1989	884	797	715	622	374	283	395	296	6.8
1990 to 1992	128	117	103	100	75	40	61	60	16.1
Census Region									
Northeast	771	693	531	376	420	115	279	451	9.1
Midwest	1,202	1,076	851	584	616	235	427	541	8.3
South	1,963	1,667	1,356	960	448	451	741	756	7.6
West	870	787	605	401	195	266	406	371	11.9
Energy Sources (more than one may apply)									
Electricity	4,616	4,124	3,290	2,290	1,664	1,057	1,844	2,066	4.3
Natural Gas	2,665	2,467	1,987	1,340	1,045	695	1,220	1,189	5.5
Fuel Oil	559	526	440	282	295	103	213	333	11.9
District Heat	95	90	66	39	38	23	48	59	13.2
District Chilled Water	28	27	23	11	8	12	17	15	24.2
Propane	337	321	275	217	144	56	100	193	14.8
Any Other	163	150	112	83	58	10	34	104	17.2

See footnotes at end of table.

Table A58. Building Shell Conservation Features, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	Type of Building Shell Conservation Features (more than one may apply)								RSE Row Factor
	All Buildings	Any Building Shell Conservation Features	Roof or Ceiling Insulation	Wall Insulation	Storms or Multiple Glazing	Tinted, Reflective or Shading Glass	Exterior or Interior Shadings or Awnings	Windows that Open	
RSE Column Factor:	0.8	0.8	0.9	1.0	1.1	1.3	1.1	1.1	
Energy End Uses (more than one may apply)									
Heated Buildings	4,178	3,881	3,164	2,206	1,642	1,018	1,804	1,932	4.4
Air-Conditioned Buildings	3,502	3,285	2,727	1,908	1,405	977	1,705	1,515	4.5
Buildings with Water Heating	3,502	3,298	2,728	1,918	1,495	928	1,635	1,625	4.5
Buildings with Cooking	734	707	594	400	353	237	399	336	6.2
Buildings with Manufacturing	121	112	95	63	48	31	52	45	16.9
Floors									
One	3,007	2,530	2,010	1,434	796	604	992	1,159	6.6
Two	1,154	1,077	857	600	498	300	530	547	5.3
Three	446	424	330	195	265	103	223	276	8.2
Four to Nine	186	179	137	84	114	53	99	130	11.1
Ten or More	13	13	9	6	7	8	9	6	17.5
Workers (main shift)									
Less than 5	2,718	2,240	1,683	1,160	760	410	703	1,181	6.5
5 to 9	895	837	687	487	345	210	453	412	6.2
10 to 19	561	534	450	317	252	182	297	251	7.4
20 to 49	405	389	339	223	206	152	249	181	6.9
50 to 99	130	128	102	75	64	53	83	62	9.6
100 to 249	64	64	55	38	35	39	45	23	10.1
250 or More	31	31	27	20	18	20	24	9	9.7
Weekly Operating Hours									
39 or Fewer	1,039	839	610	406	295	168	224	527	8.7
40 to 48	1,278	1,155	925	649	472	314	617	606	6.4
49 to 60	1,004	894	720	513	340	221	402	404	6.7
61 to 84	645	579	475	326	249	154	264	237	6.0
85 to 167	478	445	362	247	195	131	198	166	9.0
Open Continuously	362	311	252	180	130	81	147	179	9.5
Ownership and Occupancy									
Nongovernment Owned	4,206	3,684	2,921	2,061	1,496	946	1,590	1,741	4.4
Owner Occupied	3,192	2,841	2,297	1,660	1,209	738	1,220	1,420	4.6
Nonowner Occupied	817	699	535	334	242	183	337	260	7.6
Unoccupied	197	144	89	68	45	25	32	61	16.1
Government Owned	599	539	422	259	184	122	263	378	8.6
Primary Space-Heating Energy Source									
Electricity	1,107	1,032	870	674	378	330	530	426	7.7
Natural Gas	2,276	2,105	1,694	1,143	917	582	1,038	1,020	5.7
Fuel Oil	394	369	303	175	204	51	138	248	15.4
District Heat	91	87	63	37	36	21	45	57	13.5
Propane	217	205	174	141	81	31	46	123	20.2
Wood	68	59	41	Q	Q	Q	Q	43	27.0
Any Other	Q	Q	Q	Q	Q	Q	Q	Q	100.0
Cooling Energy Sources (more than one may apply)									
Electricity	3,404	3,189	2,643	1,849	1,357	947	1,644	1,474	4.6
Natural Gas	106	106	93	70	55	33	68	44	12.8
District Chilled Water	28	27	23	11	8	12	17	15	24.2

See footnotes at end of table.

Table A58. Building Shell Conservation Features, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	Type of Building Shell Conservation Features (more than one may apply)								RSE Row Factor
	All Buildings	Any Building Shell Conservation Features	Roof or Ceiling Insulation	Wall Insulation	Storms or Multiple Glazing	Tinted, Reflective or Shading Glass	Exterior or Interior Shadings or Awnings	Windows that Open	
RSE Column Factor:	0.8	0.8	0.9	1.0	1.1	1.3	1.1	1.1	
Water-Heating Energy Sources (more than one may apply)									
Electricity	1,696	1,620	1,382	1,004	692	459	785	748	5.6
Natural Gas	1,647	1,527	1,213	837	717	446	808	771	6.2
Fuel Oil	126	118	103	55	73	20	42	83	21.8
District Heat	38	36	28	19	18	10	19	22	17.0
Propane	80	76	70	53	39	Q	31	46	26.3
Cooking Energy Sources (more than one may apply)									
Electricity	356	343	294	204	174	115	195	149	8.7
Natural Gas	431	419	342	222	195	141	242	203	7.8
Propane	70	68	62	51	42	16	38	41	20.6
Percent of Floorspace Heated									
Not Heated	653	363	196	126	44	53	52	198	14.4
1 to 50	688	605	431	307	189	136	240	297	8.0
51 to 99	618	585	475	325	255	162	301	279	7.7
100	2,846	2,670	2,241	1,563	1,193	718	1,259	1,345	4.8
Percent of Floorspace Cooled									
Not Cooled	1,304	938	616	412	275	91	147	604	9.0
1 to 50	1,176	1,079	835	549	426	261	496	568	5.6
51 to 99	658	630	531	356	314	195	381	277	7.6
100	1,668	1,575	1,362	1,004	665	521	829	670	6.0
Percent Lit when Open									
Not Lit	413	241	144	100	59	27	38	127	14.4
1 to 50	881	762	559	393	319	165	296	447	7.2
51 to 99	813	768	648	418	349	235	388	374	6.7
100	2,699	2,452	1,993	1,410	953	642	1,131	1,171	4.9
Percent Lit when Closed									
Not Lit	2,987	2,542	1,967	1,379	918	555	961	1,428	5.5
1 to 50	1,689	1,573	1,290	879	726	485	854	645	5.4
51 to 99	43	37	29	22	15	13	22	14	22.0
100	87	71	56	41	22	15	16	32	21.4
Building Shell Conservation Features (more than one may apply)									
Roof or Ceiling Insulation	3,343	3,343	3,343	2,128	1,445	919	1,558	1,527	4.5
Wall Insulation	2,320	2,320	2,128	2,320	1,139	683	1,100	1,065	5.2
Storm or Multiple Glazing	1,680	1,680	1,445	1,139	1,680	552	908	888	5.8
Tinted, Reflective or Shading Glass	1,068	1,068	919	683	552	1,068	647	330	6.1
Exterior or Interior Shading or Awnings	1,853	1,853	1,558	1,100	908	647	1,853	871	5.4
Windows that Open	2,119	2,119	1,527	1,065	888	330	871	2,119	5.7
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	250	244	219	161	146	124	180	99	8.0
Economizer Cycle	414	413	374	270	229	175	281	163	8.2
HVAC Maintenance	2,503	2,411	2,012	1,403	1,120	753	1,248	1,152	4.7

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A59. Building Shell Conservation Features, Floorspace, 1992
(Million Square Feet)

Building Characteristics	Type of Building Shell Conservation Features (more than one may apply)								RSE Row Factor
	All Buildings	Any Building Shell Conservation Features	Roof or Ceiling Insulation	Wall Insulation	Storms or Multiple Glazing	Tinted, Reflective or Shading Glass	Exterior or Interior Shadings or Awnings	Windows that Open	
	0.8	0.8	0.9	1.0	1.1	1.4	1.0	1.1	
RSE Column Factor:	0.8	0.8	0.9	1.0	1.1	1.4	1.0	1.1	
All Buildings	67,876	62,056	50,311	33,240	29,684	25,396	34,071	28,937	4.8
Building Floorspace (square feet)									
1,001 to 5,000	7,327	6,375	4,951	3,554	2,274	1,251	2,518	3,293	6.7
5,001 to 10,000	7,199	6,405	5,270	3,481	2,895	1,789	2,900	3,117	5.6
10,001 to 25,000	10,375	9,403	7,668	5,145	4,324	3,195	4,722	4,700	6.3
25,001 to 50,000	10,069	9,270	7,504	4,949	4,448	3,226	4,900	4,366	8.5
50,001 to 100,000	8,062	7,683	6,454	3,940	3,913	3,395	5,145	3,754	8.3
100,001 to 200,000	9,678	8,935	7,160	4,733	4,126	3,948	5,131	4,209	10.3
200,001 to 500,000	7,889	7,098	5,653	3,637	3,928	4,076	5,168	3,179	11.8
Over 500,000	7,278	6,887	5,650	3,800	3,776	4,516	3,588	2,319	25.5
Principal Building Activity									
Education	8,470	8,379	7,025	3,377	3,212	2,898	5,131	5,959	8.5
Food Sales	757	656	476	285	247	225	280	Q	19.8
Food Service	1,491	1,451	1,215	754	868	412	738	450	12.6
Health Care	1,763	1,735	1,584	1,131	1,329	1,093	1,507	1,177	14.3
Lodging	2,891	2,825	2,218	1,661	1,639	947	1,750	2,416	16.5
Mercantile and Service	12,402	11,667	10,081	6,379	4,970	4,434	4,885	3,701	10.7
Office	12,319	12,185	10,180	7,738	6,963	6,819	9,044	4,061	7.0
Parking Garage	1,652	678	324	283	414	260	336	440	40.3
Public Assembly	4,556	4,341	3,802	2,828	2,593	Q	2,542	1,666	29.9
Public Order and Safety	820	818	748	464	561	226	551	545	27.9
Religious Worship	3,747	3,657	2,718	2,154	2,296	1,419	1,620	2,862	13.9
Warehouse and Storage	11,484	9,082	6,517	4,178	3,127	2,970	3,791	3,760	11.5
Other	1,130	1,032	737	560	519	447	582	309	19.6
Vacant	4,396	3,550	2,685	1,448	945	1,219	1,315	1,473	17.4
Year Constructed									
1899 or Before	1,721	1,620	942	561	1,036	379	726	1,215	17.4
1900 to 1919	3,608	3,269	2,259	1,210	1,679	630	1,312	2,297	18.0
1920 to 1945	8,712	7,532	4,929	2,187	3,317	1,556	3,922	4,759	11.8
1946 to 1959	10,421	9,484	6,957	3,300	3,474	2,887	4,926	6,211	9.6
1960 to 1969	12,612	11,695	9,567	5,498	4,124	4,740	6,096	5,654	10.0
1970 to 1979	14,014	12,754	11,395	8,182	5,638	5,603	6,763	4,703	7.0
1980 to 1989	14,287	13,365	12,072	10,427	8,731	7,927	8,587	3,577	11.6
1990 to 1992	2,502	2,338	2,190	1,877	1,685	1,674	1,740	520	13.0
Census Region									
Northeast	13,400	12,612	9,893	6,633	8,075	4,184	6,436	7,706	9.2
Midwest	17,280	16,031	12,918	8,184	9,885	6,540	8,376	8,117	7.0
South	24,577	21,758	18,108	12,175	8,380	8,899	12,210	8,838	10.4
West	12,619	11,655	9,392	6,248	3,344	5,774	7,049	4,276	8.4
Energy Sources (more than one may apply)									
Electricity	66,549	61,362	49,956	33,068	29,615	25,306	33,941	28,564	4.8
Natural Gas	45,097	43,053	35,416	22,379	21,530	18,217	24,915	20,481	5.1
Fuel Oil	13,218	12,996	11,451	8,061	8,471	6,385	8,177	6,422	7.9
District Heat	5,339	5,135	4,046	2,290	2,337	2,425	2,994	2,823	12.8
District Chilled Water	2,066	2,007	1,616	994	808	1,103	1,239	1,042	20.0
Propane	3,393	3,339	2,829	2,153	1,692	1,222	1,653	1,865	14.9
Any Other	1,551	1,472	1,276	860	557	190	604	921	22.1

See footnotes at end of table.

Table A59. Building Shell Conservation Features, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Type of Building Shell Conservation Features (more than one may apply)								RSE Row Factor
	All Buildings	Any Building Shell Conservation Features	Roof or Ceiling Insulation	Wall Insulation	Storms or Multiple Glazing	Tinted, Reflective or Shading Glass	Exterior or Interior Shadings or Awnings	Windows that Open	
	0.8	0.8	0.9	1.0	1.1	1.4	1.0	1.1	
Energy End Uses (more than one may apply)									
Heated Buildings	61,996	58,915	48,409	32,180	29,441	24,816	33,454	27,381	4.8
Air-Conditioned Buildings	57,041	54,488	45,186	30,278	27,331	24,350	32,198	23,966	5.1
Buildings with Water Heating	58,479	55,914	46,407	30,978	28,564	24,373	32,745	25,632	4.9
Buildings with Cooking	23,065	22,814	19,707	12,919	12,918	11,271	14,890	11,124	8.7
Buildings with Manufacturing	3,174	3,050	2,714	1,489	1,312	1,338	1,377	1,349	16.4
Floors									
One	25,424	22,066	18,135	12,123	8,610	7,551	10,608	8,652	9.9
Two	18,025	17,097	14,282	9,741	8,019	6,991	9,124	7,540	6.5
Three	9,877	9,558	7,957	4,581	5,358	3,749	5,459	5,499	8.2
Four to Nine	10,377	9,289	6,810	4,326	5,368	4,340	5,945	5,615	9.6
Ten or More	4,173	4,046	3,128	2,469	2,329	2,765	2,935	1,632	16.2
Workers (main shift)									
Less than 5	17,944	14,210	11,054	7,342	5,825	4,030	5,026	7,113	14.6
5 to 9	7,524	6,814	5,268	3,466	2,895	1,539	3,499	3,488	6.9
10 to 19	8,077	7,444	5,591	3,629	3,212	2,112	3,539	3,976	8.6
20 to 49	10,556	10,084	8,475	5,328	5,110	4,255	6,428	4,856	7.6
50 to 99	7,763	7,642	6,110	4,087	4,115	3,118	5,085	3,784	10.0
100 to 249	7,378	7,308	6,550	4,137	3,797	4,492	4,703	2,828	12.1
250 or More	8,633	8,554	7,263	5,251	4,729	5,850	5,792	2,891	10.6
Weekly Operating Hours									
39 or Fewer	8,246	6,858	5,264	3,236	2,793	1,778	2,264	4,100	9.8
40 to 48	14,998	13,770	10,776	6,694	6,236	5,097	8,025	7,031	6.8
49 to 60	14,046	12,952	10,748	7,451	5,658	5,250	7,205	5,306	6.3
61 to 84	12,062	11,444	9,551	6,535	5,312	5,075	5,945	3,813	8.7
85 to 167	8,467	8,074	6,350	3,678	3,795	3,455	4,329	3,767	11.2
Open Continuously	10,057	8,958	7,622	5,647	5,890	4,740	6,303	4,921	15.1
Ownership and Occupancy									
Nongovernment Owned	52,752	47,889	38,288	27,472	23,696	20,146	26,322	19,907	5.3
Owner Occupied	38,403	35,043	28,012	20,366	17,450	14,347	18,809	16,151	4.2
Nonowner Occupied	12,273	11,369	9,262	6,417	5,788	5,371	6,927	3,174	14.2
Unoccupied	2,077	1,477	1,014	688	458	428	586	582	17.7
Government Owned	15,124	14,168	12,023	5,768	5,988	5,250	7,749	9,030	8.4
Primary Space-Heating Energy Source									
Electricity	15,502	14,541	12,530	9,993	7,487	7,528	8,980	4,553	11.2
Natural Gas	35,161	33,455	27,048	16,869	16,546	13,894	19,312	15,927	5.7
Fuel Oil	4,415	4,266	3,494	2,066	2,554	949	1,993	3,098	16.2
District Heat	5,014	4,813	3,731	2,117	2,199	2,276	2,725	2,722	13.5
Propane	1,101	1,064	939	750	468	133	247	633	21.5
Wood	257	230	183	Q	Q	Q	Q	145	24.8
Any Other	546	546	Q	Q	Q	Q	Q	Q	55.3
Cooling Energy Sources (more than one may apply)									
Electricity	54,628	52,132	43,216	29,191	26,170	23,187	30,810	22,866	5.2
Natural Gas	1,906	1,848	1,632	1,075	1,025	831	1,112	740	18.5
District Chilled Water	2,066	2,007	1,616	994	808	1,103	1,239	1,042	20.0

See footnotes at end of table.

Table A59. Building Shell Conservation Features, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	Type of Building Shell Conservation Features (more than one may apply)								RSE Row Factor
	All Buildings	Any Building Shell Conservation Features	Roof or Ceiling Insulation	Wall Insulation	Storms or Multiple Glazing	Tinted, Reflective or Shading Glass	Exterior or Interior Shadings or Awnings	Windows that Open	
	0.8	0.8	0.9	1.0	1.1	1.4	1.0	1.1	
Water-Heating Energy Sources (more than one may apply)									
Electricity	25,482	24,351	20,939	15,193	12,583	11,163	14,199	8,865	8.8
Natural Gas	29,962	28,615	23,238	14,456	14,742	12,247	17,025	14,352	5.9
Fuel Oil	2,470	2,417	2,046	1,182	1,464	667	1,246	1,836	19.8
District Heat	3,308	3,238	2,543	1,632	1,466	1,572	2,078	1,728	15.1
Propane	659	647	586	428	326	Q	297	434	27.7
Cooking Energy Sources (more than one may apply)									
Electricity	12,183	12,060	10,728	7,206	7,152	6,568	8,077	5,184	14.1
Natural Gas	15,233	15,099	12,898	8,040	8,241	7,061	9,567	8,143	8.8
Propane	1,039	1,033	935	800	630	435	592	661	25.5
Percent of Floorspace Heated									
Not Heated	6,211	3,439	2,154	1,170	327	587	744	1,738	18.9
1 to 50	11,195	9,852	7,135	4,163	3,584	3,437	3,887	4,442	12.2
51 to 99	10,211	9,861	8,462	5,672	4,674	4,596	6,291	4,202	8.7
100	40,260	38,905	32,559	22,235	21,099	16,776	23,149	18,555	5.4
Percent of Floorspace Cooled									
Not Cooled	10,835	7,569	5,124	2,963	2,354	1,046	1,873	4,971	10.2
1 to 50	21,715	20,089	15,497	8,977	9,092	6,787	9,868	10,559	7.3
51 to 99	13,872	13,541	11,573	7,713	7,158	7,107	8,975	5,478	7.9
100	21,454	20,858	18,116	13,588	11,080	10,456	13,356	7,929	8.5
Percent Lit when Open									
Not Lit	3,280	2,110	1,341	768	481	554	618	1,113	18.4
1 to 50	9,980	8,863	6,538	4,032	3,727	2,339	3,586	5,175	9.1
51 to 99	14,224	13,846	11,864	8,261	7,851	6,875	8,583	5,954	11.1
100	40,393	37,237	30,567	20,179	17,625	15,628	21,285	16,696	5.2
Percent Lit when Closed									
Not Lit	34,486	30,170	24,198	16,513	14,385	10,863	15,626	16,050	7.2
1 to 50	31,482	30,110	24,757	15,719	14,597	13,760	17,640	12,265	5.5
51 to 99	1,021	977	838	664	502	558	577	185	21.3
100	887	800	518	344	200	215	228	437	24.7
Building Shell Conservation Features (more than one may apply)									
Roof or Ceiling Insulation	50,311	50,311	50,311	30,885	25,474	22,124	28,758	21,398	4.9
Wall Insulation	33,240	33,240	30,885	33,240	20,010	15,537	20,202	13,019	5.8
Storm or Multiple Glazing	29,684	29,684	25,474	20,010	29,684	14,838	19,831	13,784	6.1
Tinted, Reflective or Shading Glass	25,396	25,396	22,124	15,537	14,838	25,396	17,622	8,104	8.0
Exterior or Interior Shading or Awnings	34,071	34,071	28,758	20,202	19,831	17,622	34,071	14,783	5.8
Windows that Open	28,937	28,937	21,398	13,019	13,784	8,104	14,783	28,937	5.9
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	13,970	13,900	12,198	9,265	9,208	9,741	10,395	4,616	11.9
Economizer Cycle	18,313	18,174	16,606	11,625	11,172	11,287	12,871	6,430	9.7
HVAC Maintenance	49,173	47,705	39,959	26,728	25,113	21,907	28,549	21,809	5.2

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A60. Energy Management Practices, Number of Buildings, 1992
(Thousand)

Building Characteristics	All Buildings	Energy Management Control System: (more than one may apply)					DSM Participation	Energy Audit	Building Energy Manager	RSE Row Factor
		Heating	Cooling	Lighting	Hot Water	Other				
RSE Column Factor:	0.4	0.8	0.8	1.4	1.5	2.6	0.8	0.7	1.6	
All Buildings	4,806	222	197	55	34	12	315	521	49	10.3
Building Floorspace (square feet)										
1,001 to 5,000	2,681	45	44	Q	Q	Q	103	209	Q	18.9
5,001 to 10,000	975	37	31	Q	Q	Q	66	107	Q	18.4
10,001 to 25,000	647	50	41	12	9	Q	68	94	6	17.3
25,001 to 50,000	280	29	25	5	6	Q	30	50	5	20.0
50,001 to 100,000	116	28	23	8	4	Q	23	32	6	17.5
100,001 to 200,000	71	19	18	8	4	Q	14	17	2	18.0
200,001 to 500,000	26	10	10	3	3	(*)	9	9	2	19.4
Over 500,000	9	5	5	Q	Q	1	2	3	1	36.0
Principal Building Activity										
Education	301	50	38	9	11	Q	54	75	10	20.3
Food Sales	130	Q	Q	Q	Q	Q	Q	Q	Q	38.3
Food Service	260	11	Q	Q	Q	Q	24	31	Q	30.2
Health Care	63	10	10	Q	Q	Q	11	11	Q	38.5
Lodging	154	4	2	Q	Q	Q	21	33	Q	34.7
Mercantile and Service	1,272	28	26	13	Q	Q	50	106	Q	17.0
Office	749	68	66	13	7	3	62	96	10	16.4
Parking Garage	24	Q	Q	Q	Q	Q	Q	Q	Q	66.6
Public Assembly	278	14	12	Q	Q	Q	24	40	Q	25.9
Public Order and Safety	60	Q	Q	Q	Q	Q	Q	Q	Q	52.5
Religious Worship	366	11	8	Q	Q	Q	15	37	Q	33.8
Warehouse and Storage	761	9	8	Q	Q	Q	24	45	Q	29.8
Other	69	Q	Q	Q	Q	Q	Q	Q	Q	45.8
Vacant	319	5	Q	Q	Q	Q	7	12	Q	44.7
Year Constructed										
1899 or Before	169	Q	Q	Q	Q	Q	12	25	Q	37.1
1900 to 1919	255	11	8	Q	Q	Q	18	26	Q	36.2
1920 to 1945	724	14	9	Q	Q	Q	45	76	Q	25.0
1946 to 1959	880	32	24	Q	5	Q	55	95	11	18.3
1960 to 1969	783	38	32	6	5	Q	53	99	8	19.5
1970 to 1979	982	49	48	13	8	Q	74	112	15	18.4
1980 to 1989	884	55	55	17	10	Q	51	81	5	17.8
1990 to 1992	128	20	19	6	2	1	7	7	Q	30.8
Census Region										
Northeast	771	37	23	11	8	1	99	132	8	21.6
Midwest	1,202	66	55	11	9	6	68	122	11	17.7
South	1,963	63	68	15	11	Q	72	157	14	17.8
West	870	57	51	18	6	Q	75	110	16	20.1
Energy Sources (more than one may apply)										
Electricity	4,616	222	197	55	34	12	315	520	49	10.3
Natural Gas	2,665	169	148	37	21	10	195	336	31	11.4
Fuel Oil	559	35	29	13	11	Q	65	85	6	22.2
District Heat	95	25	20	4	5	Q	30	27	6	24.2
District Chilled Water	28	12	13	Q	2	Q	11	9	4	33.6
Propane	337	5	4	Q	Q	Q	18	32	Q	41.1
Any Other	163	Q	Q	Q	Q	Q	Q	Q	Q	32.7
Energy End Uses (more than one may apply)										
Heated Buildings	4,178	222	197	55	34	12	313	505	49	10.3
Air-Conditioned Buildings	3,502	204	197	47	31	12	267	425	42	10.2
Buildings with Water Heating	3,502	215	190	52	34	12	288	453	47	10.4
Buildings with Cooking	734	76	65	22	15	5	95	131	12	14.9
Buildings with Manufacturing	121	7	4	Q	Q	Q	16	25	Q	41.5

See footnotes at end of table.

Table A60. Energy Management Practices, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	Energy Management Control System: (more than one may apply)					DSM Participation	Energy Audit	Building Energy Manager	RSE Row Factor
		Heating	Cooling	Lighting	Hot Water	Other				
RSE Column Factor:	0.4	0.8	0.8	1.4	1.5	2.6	0.8	0.7	1.6	
Floors										
One	3,007	81	78	24	14	Q	132	259	24	16.0
Two	1,154	78	65	17	7	3	91	144	9	16.2
Three	446	30	25	7	5	Q	51	72	9	19.6
Four to Nine	186	28	24	5	6	1	35	41	6	18.7
Ten or More	13	6	5	2	2	Q	5	5	1	25.8
Workers (main shift)										
Less than 5	2,718	36	27	13	Q	Q	103	178	15	21.8
5 to 9	895	27	27	Q	Q	Q	68	102	Q	19.7
10 to 19	561	45	41	Q	Q	Q	41	92	Q	19.6
20 to 49	405	50	42	8	9	Q	52	85	12	17.3
50 to 99	130	27	22	8	5	Q	24	33	6	18.0
100 to 249	64	22	22	9	6	2	18	21	2	16.5
250 or More	31	16	16	5	2	1	9	11	2	16.6
Weekly Operating Hours										
39 or Fewer	1,039	23	14	Q	Q	Q	31	70	Q	24.7
40 to 48	1,278	68	61	9	7	Q	90	142	15	16.8
49 to 60	1,004	49	47	8	3	3	60	90	8	17.6
61 to 84	645	34	31	10	8	1	56	88	4	18.7
85 to 167	478	29	26	14	5	Q	48	75	6	20.7
Open Continuously	362	19	18	7	9	Q	30	57	8	24.9
Ownership and Occupancy										
Nongovernment Owned	4,206	153	142	41	20	11	229	399	32	11.6
Owner Occupied	3,192	128	119	32	17	10	199	334	27	12.7
Nonowner Occupied	817	23	24	9	Q	Q	27	64	3	20.6
Unoccupied	197	Q	Q	Q	Q	Q	Q	Q	Q	30.1
Government Owned	599	69	54	14	14	Q	86	122	18	17.5
Space-Heating Energy Source (more than one may apply)										
Electricity	1,513	79	75	24	13	6	109	202	22	15.1
Natural Gas	2,405	147	132	32	19	7	172	299	28	12.1
Fuel Oil	479	18	12	Q	5	Q	52	67	Q	27.8
District Heat	94	24	20	Q	5	Q	29	27	6	23.3
Propane	255	Q	Q	Q	Q	Q	12	17	Q	45.2
Wood	102	Q	Q	Q	Q	Q	Q	Q	Q	50.0
Any Other	39	Q	Q	Q	Q	Q	Q	Q	Q	103.8
Cooling Energy Sources (more than one may apply)										
Electricity	3,404	188	180	45	29	12	252	413	39	10.4
Natural Gas	106	11	11	Q	Q	Q	12	18	Q	34.4
District Chilled Water	28	12	13	Q	2	Q	11	9	4	33.6
Water-Heating Energy Sources (more than one may apply)										
Electricity	1,696	86	85	23	16	Q	134	195	18	14.2
Natural Gas	1,647	114	98	26	14	7	130	225	27	13.7
Fuel Oil	126	Q	2	Q	Q	Q	20	27	Q	42.7
District Heat	38	17	13	2	4	Q	15	10	3	27.6
Propane	80	Q	Q	Q	Q	Q	Q	Q	Q	67.7
Cooking Energy Sources (more than one may apply)										
Electricity	356	36	31	12	9	Q	49	65	6	19.9
Natural Gas	431	52	44	14	9	4	56	76	8	17.8
Propane	70	Q	Q	Q	Q	Q	11	14	Q	45.3

See footnotes at end of table.

Table A60. Energy Management Practices, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	Energy Management Control System: (more than one may apply)					DSM Participation	Energy Audit	Building Energy Manager	RSE Row Factor
		Heating	Cooling	Lighting	Hot Water	Other				
RSE Column Factor:	0.4	0.8	0.8	1.4	1.5	2.6	0.8	0.7	1.6	
Percent of Floorspace Heated										
Not Heated	653	Q	Q	Q	Q	Q	Q	17	Q	27.7
1 to 50	688	11	7	4	Q	Q	34	51	7	27.2
51 to 99	618	34	32	11	5	Q	45	78	6	21.6
100	2,846	178	158	39	28	9	234	376	36	11.1
Percent of Floorspace Cooled										
Not Cooled	1,304	18	Q	Q	Q	Q	48	97	Q	26.1
1 to 50	1,176	41	27	5	5	Q	82	134	7	17.8
51 to 99	658	49	50	12	8	3	72	107	14	16.9
100	1,668	115	120	30	18	8	113	184	22	14.0
Percent Lit when Open										
Not Lit	413	Q	Q	Q	Q	Q	Q	Q	Q	28.0
1 to 50	881	14	7	Q	Q	Q	48	76	Q	22.5
51 to 99	813	55	46	15	11	3	90	121	9	17.6
100	2,699	154	143	38	23	9	177	321	36	12.0
Percent Lit when Closed										
Not Lit	2,987	101	84	25	18	Q	157	293	32	14.2
1 to 50	1,689	118	110	29	17	6	153	213	18	12.1
51 to 99	43	2	2	Q	Q	Q	Q	7	Q	44.9
100	87	Q	Q	Q	Q	Q	Q	Q	Q	45.7
Heating Equipment (more than one may apply)										
Heat Pumps	449	27	25	5	2	1	33	60	5	21.7
Furnaces	1,692	66	61	12	Q	Q	109	163	Q	16.3
Individual Space Heaters	1,464	60	52	16	8	6	102	167	15	17.3
District Heat	93	24	20	Q	5	Q	29	27	6	23.3
Boilers	624	62	46	18	14	3	89	132	13	13.9
Packaged Heating Units	870	65	66	19	7	4	67	113	15	16.5
Other	42	9	9	Q	Q	Q	Q	7	Q	55.4
Cooling Equipment (more than one may apply)										
Residential-Type Central Air Conditioners	816	38	37	5	Q	Q	60	68	Q	24.8
Heat Pumps	454	27	25	5	2	1	36	59	5	22.2
Individual Air Conditioners	1,023	30	22	Q	7	Q	71	121	9	19.4
District Chilled Water	28	12	13	Q	2	Q	11	9	4	33.6
Central Chillers	142	37	38	10	10	2	30	39	5	15.8
Packaged Air-Conditioning Units	1,459	105	105	29	13	8	119	206	23	14.2
Swamp Coolers	179	7	6	Q	Q	Q	6	18	Q	48.7
Other	8	Q	Q	Q	Q	Q	Q	Q	Q	126.2
Lighting Equipment Types (more than one may apply)										
Incandescent	2,509	127	107	25	17	8	190	300	26	12.5
Standard Fluorescent	4,065	220	195	55	34	12	301	492	48	10.3
Compact Fluorescent	206	27	22	11	7	1	57	55	4	17.3
High-Intensity Discharge	354	43	36	13	7	3	56	73	5	13.1
Other	78	Q	Q	Q	Q	Q	8	Q	Q	48.5

See footnotes at end of table.

Table A60. Energy Management Practices, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	Energy Management Control System: (more than one may apply)					DSM Participation	Energy Audit	Building Energy Manager	RSE Row Factor
		Heating	Cooling	Lighting	Hot Water	Other				
RSE Column Factor:	0.4	0.8	0.8	1.4	1.5	2.6	0.8	0.7	1.6	
Water-Heating Equipment (more than one may apply)										
Centralized System	1,994	129	109	32	23	7	172	264	32	14.1
Self-Heating Tank	1,799	107	91	28	16	6	147	224	28	15.6
Heated by Space-Heating Equipment	103	12	9	Q	2	Q	14	23	Q	34.1
Other	106	12	10	2	5	Q	17	23	3	26.6
Distributed System	1,557	92	88	22	14	6	121	204	16	15.1
Residential-Type Storage Tank	1,489	80	77	16	9	4	108	193	13	15.0
Point-of-Use	56	9	9	Q	Q	Q	12	9	Q	43.9
Other	24	5	4	Q	Q	Q	4	5	Q	45.0

(*) = Value rounds to zero in the units displayed.

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A61. Energy Management Practices, Floorspace, 1992
(Million Square Feet)

Building Characteristics	All Buildings	Energy Management Control System: (more than one may apply)					DSM Participation	Energy Audit	Building Energy Manager	RSE Row Factor
		Heating	Cooling	Lighting	Hot Water	Other				
RSE Column Factor:	0.4	0.9	0.9	1.4	1.7	1.8	0.8	0.7	1.5	
All Buildings	67,876	13,412	12,489	5,162	3,897	887	11,310	14,779	2,311	11.1
Building Floorspace (square feet)										
1,001 to 5,000	7,327	139	136	Q	Q	Q	321	623	Q	18.8
5,001 to 10,000	7,199	290	241	Q	Q	Q	485	785	Q	17.2
10,001 to 25,000	10,375	868	730	218	161	Q	1,075	1,540	94	16.4
25,001 to 50,000	10,069	1,058	931	195	210	Q	1,105	1,820	194	19.4
50,001 to 100,000	8,062	1,944	1,626	578	324	Q	1,581	2,271	418	16.4
100,001 to 200,000	9,678	2,478	2,329	997	529	Q	1,960	2,345	304	17.1
200,001 to 500,000	7,889	3,254	3,097	913	840	152	2,548	2,891	508	19.3
Over 500,000	7,278	3,381	3,399	2,194	Q	368	2,235	2,504	658	32.1
Principal Building Activity										
Education	8,470	2,891	2,156	504	927	Q	2,560	2,810	482	17.9
Food Sales	757	Q	Q	Q	Q	Q	Q	Q	Q	39.0
Food Service	1,491	118	Q	Q	Q	Q	159	174	Q	34.1
Health Care	1,763	918	936	Q	225	Q	911	804	Q	24.1
Lodging	2,891	386	454	Q	Q	Q	707	878	Q	37.2
Mercantile and Service	12,402	1,674	1,682	1,315	Q	Q	1,728	1,878	Q	23.5
Office	12,319	4,400	4,231	1,459	836	430	2,707	3,793	560	13.1
Parking Garage	1,652	Q	Q	Q	Q	Q	Q	Q	Q	66.6
Public Assembly	4,556	Q	Q	Q	Q	Q	700	807	Q	35.2
Public Order and Safety	820	Q	Q	Q	Q	Q	Q	Q	Q	58.2
Religious Worship	3,747	261	199	Q	Q	Q	402	418	Q	34.8
Warehouse and Storage	11,484	512	466	Q	Q	Q	648	1,477	Q	26.4
Other	1,130	317	317	Q	Q	Q	221	Q	Q	41.8
Vacant	4,396	142	Q	Q	Q	Q	126	705	Q	43.2
Year Constructed										
1899 or Before	1,721	Q	Q	Q	Q	Q	161	360	Q	37.2
1900 to 1919	3,608	498	283	Q	Q	Q	476	905	Q	42.0
1920 to 1945	8,712	790	681	Q	Q	Q	1,244	1,763	Q	25.2
1946 to 1959	10,421	1,166	976	Q	235	Q	1,331	2,255	308	17.3
1960 to 1969	12,612	2,448	2,166	563	450	Q	2,793	3,060	376	17.5
1970 to 1979	14,014	2,994	2,953	955	790	Q	2,741	3,331	790	16.1
1980 to 1989	14,287	4,211	4,135	2,617	Q	353	2,060	2,775	318	19.3
1990 to 1992	2,502	1,196	1,218	543	303	114	504	330	56	21.7
Census Region										
Northeast	13,400	2,285	1,688	787	907	302	3,436	4,136	340	20.3
Midwest	17,280	4,123	3,735	1,190	931	259	3,279	3,944	647	15.6
South	24,577	4,158	4,437	Q	Q	132	2,600	3,810	966	19.2
West	12,619	2,846	2,629	1,254	519	193	1,994	2,890	359	14.6
Energy Sources (more than one may apply)										
Electricity	66,549	13,412	12,489	5,162	3,897	887	11,310	14,734	2,311	11.2
Natural Gas	45,097	9,805	9,008	3,462	2,488	794	8,665	10,911	1,682	10.2
Fuel Oil	13,218	4,971	4,920	2,126	1,698	477	4,148	4,533	673	14.3
District Heat	5,339	2,389	2,047	513	583	Q	1,676	1,899	864	19.3
District Chilled Water	2,066	1,024	1,028	340	269	Q	644	514	622	24.7
Propane	3,393	313	402	Q	Q	Q	529	810	Q	31.9
Any Other	1,551	Q	Q	Q	Q	Q	Q	Q	Q	46.1
Energy End Uses (more than one may apply)										
Heated Buildings	61,996	13,412	12,462	5,134	3,897	878	11,248	14,348	2,311	11.3
Air-Conditioned Buildings	57,041	12,933	12,489	4,990	3,774	887	10,667	13,636	2,222	11.5
Buildings with Water Heating	58,479	13,323	12,404	5,118	3,897	887	11,030	14,086	2,285	11.4
Buildings with Cooking	23,065	8,753	8,099	3,698	3,172	579	6,788	7,392	1,108	16.0
Buildings with Manufacturing	3,174	400	328	Q	Q	Q	712	1,076	Q	30.5

See footnotes at end of table.

Table A61. Energy Management Practices, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	All Buildings	Energy Management Control System: (more than one may apply)					DSM Partici- pation	Energy Audit	Building Energy Manager	RSE Row Factor
		Heating	Cooling	Lighting	Hot Water	Other				
RSE Column Factor:	0.4	0.9	0.9	1.4	1.7	1.8	0.8	0.7	1.5	
Floors										
One	25,424	2,854	2,659	Q	Q	Q	1,686	3,070	340	19.8
Two	18,025	2,939	2,662	1,254	433	253	3,025	3,842	332	15.5
Three	9,877	1,813	1,619	601	540	Q	1,958	2,571	407	19.2
Four to Nine	10,377	3,393	3,249	978	794	197	3,073	3,407	769	16.1
Ten or More	4,173	2,413	2,301	853	846	291	1,567	1,889	462	23.4
Workers (main shift)										
Less than 5	17,944	Q	Q	Q	Q	Q	1,073	1,550	Q	27.3
5 to 9	7,524	334	273	Q	Q	Q	713	1,073	Q	21.3
10 to 19	8,077	666	568	Q	Q	Q	461	1,095	Q	20.0
20 to 49	10,556	1,498	1,196	254	387	Q	1,630	2,497	281	16.9
50 to 99	7,763	1,900	1,545	653	349	Q	1,701	2,376	561	19.1
100 to 249	7,378	3,010	2,986	1,325	949	209	2,303	2,628	245	18.3
250 or More	8,633	4,787	4,773	1,776	1,197	458	3,428	3,560	789	16.4
Weekly Operating Hours										
39 or Fewer	8,246	476	252	Q	Q	Q	660	1,245	Q	26.7
40 to 48	14,998	2,317	2,119	522	525	Q	1,762	2,496	347	15.7
49 to 60	14,046	2,679	2,558	731	360	257	1,932	2,811	392	15.2
61 to 84	12,062	2,796	2,706	1,362	785	129	2,499	3,244	290	15.9
85 to 167	8,467	2,065	1,647	830	525	Q	2,413	2,044	370	21.4
Open Continuously	10,057	3,080	3,207	Q	Q	162	2,044	2,938	671	24.2
Ownership and Occupancy										
Nongovernment Owned	52,752	8,803	8,651	4,305	2,647	734	7,030	10,274	1,534	13.3
Owner Occupied	38,403	6,515	6,408	2,660	1,529	592	5,883	8,475	1,398	10.9
Nonowner Occupied	12,273	2,253	2,243	Q	Q	Q	1,105	1,753	129	28.9
Unoccupied	2,077	Q	Q	Q	Q	Q	Q	Q	Q	29.8
Government Owned	15,124	4,610	3,838	857	1,250	153	4,279	4,505	777	15.5
Space-Heating Energy Source (more than one may apply)										
Electricity	25,636	6,142	6,142	3,164	Q	365	4,570	6,331	747	17.4
Natural Gas	38,524	7,707	7,295	2,721	1,971	536	7,325	8,765	1,340	11.5
Fuel Oil	7,334	1,747	1,502	319	663	Q	2,042	2,248	200	20.5
District Heat	5,242	2,349	2,040	492	550	Q	1,607	1,880	864	19.6
Propane	1,568	Q	Q	Q	Q	Q	188	222	Q	50.4
Wood	504	Q	Q	Q	Q	Q	Q	Q	Q	37.4
Any Other	661	Q	Q	Q	Q	Q	Q	Q	Q	98.0
Cooling Energy Sources (more than one may apply)										
Electricity	54,628	12,115	11,656	4,697	3,465	882	10,015	13,101	1,773	11.7
Natural Gas	1,906	413	443	Q	Q	Q	461	629	Q	41.5
District Chilled Water	2,066	1,024	1,028	340	269	Q	644	514	622	24.7
Water-Heating Energy Sources (more than one may apply)										
Electricity	25,482	5,493	5,494	2,990	Q	287	3,830	5,518	632	17.0
Natural Gas	29,962	6,438	5,892	2,073	1,607	491	6,124	7,085	1,242	11.6
Fuel Oil	2,470	421	227	Q	Q	Q	616	776	Q	37.4
District Heat	3,308	1,799	1,586	354	423	Q	1,135	1,378	445	24.5
Propane	659	Q	Q	Q	Q	Q	Q	Q	Q	59.1
Cooking Energy Sources (more than one may apply)										
Electricity	12,183	5,455	5,183	2,784	2,142	306	3,729	3,562	429	21.4
Natural Gas	15,233	5,300	4,802	1,836	1,737	448	4,906	5,155	784	15.7
Propane	1,039	Q	Q	Q	Q	Q	231	358	Q	49.2

See footnotes at end of table.

Table A61. Energy Management Practices, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	All Buildings	Energy Management Control System: (more than one may apply)					DSM Participation	Energy Audit	Building Energy Manager	RSE Row Factor
		Heating	Cooling	Lighting	Hot Water	Other				
RSE Column Factor:	0.4	0.9	0.9	1.4	1.7	1.8	0.8	0.7	1.5	
Percent of Floorspace Heated										
Not Heated	6,211	Q	Q	Q	Q	Q	Q	512	Q	43.5
1 to 50	11,195	644	682	513	Q	Q	1,360	1,707	323	35.9
51 to 99	10,211	2,631	2,358	1,017	749	297	1,878	2,709	289	17.1
100	40,260	10,138	9,422	3,604	2,847	466	8,010	9,852	1,699	12.9
Percent of Floorspace Cooled										
Not Cooled	10,835	479	Q	Q	Q	Q	643	1,143	Q	26.4
1 to 50	21,715	2,072	1,459	727	601	Q	3,141	4,763	635	21.0
51 to 99	13,872	4,634	4,570	1,417	1,138	400	3,605	4,251	489	14.5
100	21,454	6,228	6,461	2,846	Q	316	3,920	4,622	1,098	17.1
Percent Lit when Open										
Not Lit	3,280	Q	Q	Q	Q	Q	Q	Q	Q	26.9
1 to 50	9,980	331	256	76	Q	Q	1,018	1,312	Q	26.9
51 to 99	14,224	4,293	3,781	2,141	Q	288	3,058	3,996	348	23.7
100	40,393	8,764	8,448	2,944	1,913	550	7,232	9,411	1,688	10.0
Percent Lit when Closed										
Not Lit	34,486	5,410	5,050	2,291	2,140	351	4,414	6,427	1,189	17.4
1 to 50	31,482	7,672	7,095	2,772	1,724	511	6,492	7,909	1,022	11.9
51 to 99	1,021	254	276	Q	Q	Q	Q	328	Q	44.2
100	887	Q	Q	Q	Q	Q	Q	Q	Q	48.0
Heating Equipment (more than one may apply)										
Heat Pumps	8,269	1,789	1,865	664	364	162	1,568	2,295	355	19.3
Furnaces	16,909	1,501	1,404	564	Q	Q	2,325	2,772	Q	16.6
Individual Space Heaters	22,380	4,473	4,307	1,616	645	399	4,194	5,725	758	13.4
District Heat	5,225	2,349	2,040	492	550	Q	1,607	1,880	864	19.6
Boilers	20,664	6,709	6,163	2,658	2,627	495	5,475	6,211	863	17.5
Packaged Heating Units	16,000	3,372	3,282	1,641	813	422	3,063	3,568	536	15.3
Other	903	427	427	Q	Q	Q	Q	414	Q	41.6
Cooling Equipment (more than one may apply)										
Residential-Type Central Air Conditioners	9,021	1,216	1,254	246	Q	Q	1,687	1,732	Q	19.9
Heat Pumps	8,406	1,648	1,729	581	327	159	1,578	2,261	359	19.1
Individual Air Conditioners	17,979	3,028	2,473	Q	Q	Q	3,362	4,490	408	25.7
District Chilled Water	2,066	1,024	1,028	340	269	Q	644	514	622	24.7
Central Chillers	12,991	7,088	7,255	3,059	2,624	362	4,419	5,027	836	17.5
Packaged Air-Conditioning Units	27,830	5,858	5,648	2,217	1,196	502	4,951	7,052	1,020	11.5
Swamp Coolers	2,085	423	412	Q	Q	Q	197	363	Q	40.5
Other	268	Q	Q	Q	Q	Q	Q	Q	Q	93.7
Lighting Equipment Types (more than one may apply)										
Incandescent	39,221	8,456	7,833	2,901	2,308	746	8,577	9,683	1,586	10.7
Standard Fluorescent	62,074	13,279	12,379	5,146	3,857	886	11,161	14,501	2,298	11.3
Compact Fluorescent	8,336	3,450	3,358	1,615	1,153	277	3,657	3,422	623	16.0
High-Intensity Discharge	17,570	5,343	4,970	2,277	1,641	627	5,238	5,745	874	13.3
Other	1,612	371	344	159	Q	Q	340	439	Q	42.7

See footnotes at end of table.

Table A61. Energy Management Practices, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	All Buildings	Energy Management Control System: (more than one may apply)					DSM Participation	Energy Audit	Building Energy Manager	RSE Row Factor
		Heating	Cooling	Lighting	Hot Water	Other				
RSE Column Factor:	0.4	0.9	0.9	1.4	1.7	1.8	0.8	0.7	1.5	
Water-Heating Equipment (more than one may apply)										
Centralized System	31,599	8,669	7,911	2,945	3,016	583	6,484	8,229	1,561	15.7
Self-Heating Tank	24,464	5,662	5,253	2,420	2,063	324	4,637	5,654	1,057	19.0
Heated by Space-Heating Equipment	3,722	1,611	1,352	260	419	Q	832	1,322	Q	26.6
Other	4,032	1,697	1,566	345	572	137	1,224	1,483	372	20.4
Distributed System	29,502	6,253	6,098	3,231	Q	367	4,944	6,660	818	16.4
Residential-Type Storage Tank	25,809	4,491	4,330	1,919	794	340	3,745	5,761	636	13.8
Point-of-Use	3,367	Q	Q	Q	Q	Q	1,014	794	Q	59.5
Other	1,259	496	492	268	Q	Q	410	453	Q	36.7

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A62. Reduction in Equipment Use During Off Hours, Number of Buildings, 1992
(Thousand)

Building Characteristics	All Buildings	Off-Hour Equipment Reduction (more than one may apply)					RSE Row Factor
		Heating	Cooling	Hot Water	Lighting	Other	
RSE Column Factor:	0.7	0.8	0.8	1.5	0.8	1.8	
All Buildings	4,806	3,400	2,872	578	4,089	547	4.7
Building Floorspace (square feet)							
1,001 to 5,000	2,681	1,845	1,499	277	2,248	299	6.5
5,001 to 10,000	975	746	635	127	857	112	6.0
10,001 to 25,000	647	469	417	97	569	83	7.1
25,001 to 50,000	280	181	169	40	234	26	10.0
50,001 to 100,000	116	88	83	24	98	13	9.0
100,001 to 200,000	71	49	47	10	61	11	11.8
200,001 to 500,000	26	16	15	4	18	3	14.5
Over 500,000	9	5	5	1	5	1	22.5
Principal Building Activity							
Education	301	274	231	57	300	32	10.1
Food Sales	130	76	74	Q	100	Q	20.0
Food Service	260	209	215	52	241	78	10.2
Health Care	63	42	45	Q	51	Q	21.5
Lodging	154	Q	Q	Q	Q	Q	14.5
Mercantile and Service	1,272	1,056	800	153	1,203	175	6.7
Office	749	628	621	84	722	115	7.8
Parking Garage	24	12	10	Q	15	Q	40.1
Public Assembly	278	222	182	56	269	23	10.3
Public Order and Safety	60	16	Q	Q	19	Q	36.2
Religious Worship	366	350	275	62	362	24	12.7
Warehouse and Storage	761	368	287	41	591	56	10.0
Other	69	26	24	Q	50	Q	23.8
Vacant	319	111	88	40	151	16	12.8
Year Constructed							
1899 or Before	169	125	100	26	154	19	16.7
1900 to 1919	255	194	147	29	225	28	14.7
1920 to 1945	724	513	418	101	619	68	8.8
1946 to 1959	880	632	540	103	752	97	7.7
1960 to 1969	783	539	453	102	653	63	8.2
1970 to 1979	982	702	607	101	838	149	7.8
1980 to 1989	884	604	532	104	745	109	7.7
1990 to 1992	128	90	74	12	104	15	18.2
Census Region							
Northeast	771	570	434	150	671	125	9.8
Midwest	1,202	834	628	113	1,034	113	10.5
South	1,963	1,386	1,310	176	1,647	174	7.6
West	870	609	500	139	737	135	12.3
Energy Sources (more than one may apply)							
Electricity	4,616	3,398	2,872	578	4,079	547	4.7
Natural Gas	2,665	2,140	1,872	353	2,400	327	6.4
Fuel Oil	559	450	298	102	500	71	11.9
District Heat	95	63	60	13	75	6	16.1
District Chilled Water	28	20	20	4	23	Q	26.0
Propane	337	274	196	55	304	66	15.8
Any Other	163	130	47	Q	139	Q	17.2

See footnotes at end of table.

Table A62. Reduction in Equipment Use During Off Hours, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	Off-Hour Equipment Reduction (more than one may apply)					RSE Row Factor
		Heating	Cooling	Hot Water	Lighting	Other	
RSE Column Factor:	0.7	0.8	0.8	1.5	0.8	1.8	
Energy End Uses (more than one may apply)							
Heated Buildings	4,178	3,400	2,821	557	3,768	523	4.8
Air-Conditioned Buildings	3,502	2,804	2,872	445	3,168	446	4.8
Buildings with Water Heating	3,502	2,745	2,425	578	3,125	452	4.9
Buildings with Cooking	734	560	532	160	639	132	7.4
Buildings with Manufacturing	121	98	78	20	111	30	18.1
Floors							
One	3,007	2,074	1,733	316	2,528	337	6.3
Two	1,154	888	752	169	1,021	124	5.8
Three	446	309	265	61	380	63	10.3
Four to Nine	186	120	112	29	151	22	13.8
Ten or More	13	9	9	4	9	2	20.4
Workers (main shift)							
Less than 5	2,718	1,733	1,336	268	2,170	236	6.8
5 to 9	895	734	659	110	841	139	6.3
10 to 19	561	448	413	90	521	91	8.1
20 to 49	405	318	305	63	362	49	7.5
50 to 99	130	99	92	30	117	19	10.0
100 to 249	64	47	46	11	54	8	11.7
250 or More	31	21	22	6	25	5	14.0
Weekly Operating Hours							
39 or Fewer	1,039	656	485	144	809	57	9.0
40 to 48	1,278	1,044	884	152	1,247	160	6.5
49 to 60	1,004	824	700	113	968	157	6.7
61 to 84	645	535	471	89	621	99	6.3
85 to 167	478	340	333	80	444	74	9.2
Open Continuously	362	Q	Q	Q	Q	Q	10.1
Ownership and Occupancy							
Nongovernment Owned	4,206	2,991	2,550	505	3,596	495	4.8
Owner Occupied	3,192	2,332	1,960	395	2,785	372	5.2
Nonowner Occupied	817	613	557	82	743	117	8.1
Unoccupied	197	46	34	28	68	Q	18.6
Government Owned	599	408	321	73	494	52	8.8
Primary Space-Heating Energy Source							
Electricity	1,107	830	758	155	940	131	7.7
Natural Gas	2,276	1,890	1,631	281	2,088	278	6.7
Fuel Oil	394	345	216	73	374	59	13.8
District Heat	91	60	57	12	72	6	16.3
Propane	217	192	133	29	206	39	20.9
Wood	68	61	Q	Q	64	Q	28.8
Any Other	Q	Q	Q	Q	Q	Q	NF
Cooling Energy Sources (more than one may apply)							
Electricity	3,404	2,722	2,790	438	3,077	430	4.8
Natural Gas	106	87	87	10	100	21	13.6
District Chilled Water	28	20	20	4	23	Q	26.0

See footnotes at end of table.

Table A62. Reduction in Equipment Use During Off Hours, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	Off-Hour Equipment Reduction (more than one may apply)					RSE Row Factor
		Heating	Cooling	Hot Water	Lighting	Other	
RSE Column Factor:	0.7	0.8	0.8	1.5	0.8	1.8	
Water-Heating Energy Sources (more than one may apply)							
Electricity	1,696	1,341	1,186	298	1,539	214	5.7
Natural Gas	1,647	1,286	1,163	239	1,450	210	7.6
Fuel Oil	126	103	73	39	119	20	19.0
District Heat	38	22	19	6	27	Q	21.4
Propane	80	62	47	17	70	Q	26.8
Cooking Energy Sources (more than one may apply)							
Electricity	356	260	252	71	306	74	10.2
Natural Gas	431	340	320	91	370	70	9.7
Propane	70	49	48	20	63	Q	22.2
Percent of Floorspace Heated							
Not Heated	653	Q	53	22	340	24	17.1
1 to 50	688	581	427	94	626	79	8.9
51 to 99	618	525	452	78	561	102	8.2
100	2,846	2,280	1,939	385	2,562	342	5.1
Percent of Floorspace Cooled							
Not Cooled	1,304	596	Q	133	922	101	8.7
1 to 50	1,176	964	1,001	172	1,090	156	6.3
51 to 99	658	517	535	77	580	101	8.5
100	1,668	1,323	1,335	195	1,498	189	6.6
Percent Lit when Open							
Not Lit	413	67	41	30	101	Q	17.0
1 to 50	881	645	498	84	802	82	7.7
51 to 99	813	648	562	114	752	121	7.2
100	2,699	2,040	1,771	350	2,434	338	5.4
Percent Lit when Closed							
Not Lit	2,987	1,884	1,475	322	2,345	286	6.1
1 to 50	1,689	1,435	1,326	238	1,662	253	5.6
51 to 99	43	32	30	Q	34	Q	22.6
100	87	49	41	Q	48	Q	23.2
Heating Equipment (more than one may apply)							
Heat Pumps	449	335	328	64	392	43	12.0
Furnaces	1,692	1,437	1,191	199	1,575	215	6.8
Individual Space Heaters	1,464	1,187	881	154	1,289	200	7.6
District Heat	93	61	59	13	73	6	16.1
Boilers	624	477	388	127	546	88	6.6
Packaged Heating Units	870	721	712	131	795	122	9.4
Other	42	30	27	Q	36	Q	32.7
Cooling Equipment (more than one may apply)							
Residential-Type Central							
Air Conditioners	816	673	687	86	757	98	10.2
Heat Pumps	454	337	334	63	397	43	11.9
Individual Air							
Conditioners	1,023	787	825	123	899	138	7.6
District Chilled Water	28	20	20	4	23	Q	26.0
Central Chillers	142	103	106	28	118	16	13.2
Packaged Air-Conditioning							
Units	1,459	1,178	1,214	187	1,331	195	7.0
Swamp Coolers	179	149	152	23	167	27	24.6
Other	8	Q	Q	Q	8	Q	59.2

See footnotes at end of table.

Table A62. Reduction in Equipment Use During Off Hours, Number of Buildings, 1992 (Continued)
(Thousand)

Building Characteristics	All Buildings	Off-Hour Equipment Reduction (more than one may apply)					RSE Row Factor
		Heating	Cooling	Hot Water	Lighting	Other	
RSE Column Factor:	0.7	0.8	0.8	1.5	0.8	1.8	
Lighting Equipment Types (more than one may apply)							
Incandescent	2,509	1,862	1,559	331	2,231	334	5.8
Standard Fluorescent	4,065	3,144	2,696	520	3,709	522	4.6
Compact Fluorescent	206	157	139	36	174	42	13.3
High-Intensity Discharge	354	258	229	43	316	53	8.4
Other	78	66	61	8	76	21	19.4
Water-Heating Equipment (more than one may apply)							
Centralized System	1,994	1,550	1,345	332	1,788	299	7.9
Self-Heating Tank	1,799	1,405	1,215	292	1,623	277	8.5
Heated by Space-Heating Equipment	103	84	72	18	92	19	18.8
Other	106	69	63	26	82	4	20.5
Distributed System	1,557	1,233	1,111	258	1,379	157	8.1
Residential-Type Storage Tank	1,489	1,188	1,069	246	1,327	153	8.4
Point-of-Use Heaters	56	42	41	11	45	7	17.0
Other	24	12	10	2	16	Q	23.3
Energy Conservation Features (more than one may apply)							
Any Conservation Features	4,357	3,243	2,761	568	3,812	523	4.9
Building Shell	4,223	3,146	2,683	555	3,698	508	5.0
HVAC	2,604	2,046	1,807	377	2,327	327	5.3
Lighting	1,178	907	813	189	1,036	163	6.5
Other	264	215	179	38	229	42	12.2
Off-Hour Equipment Reduction (more than one may apply)							
Heating	3,400	3,400	2,736	544	3,349	486	4.9
Cooling	2,872	2,736	2,872	435	2,827	407	4.9
Hot Water	578	544	435	578	574	106	7.7
Lighting	4,089	3,349	2,827	574	4,089	541	4.7
Other	547	486	407	106	541	547	10.1

NF = No applicable RSE row factor.

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A63. Reduction in Equipment Use During Off Hours, Floorspace, 1992
(Million Square Feet)

Building Characteristics	All Buildings	Off-Hour Equipment Reduction (more than one may apply)					RSE Row Factor
		Heating	Cooling	Hot Water	Lighting	Other	
RSE Column Factor:	0.8	0.8	0.8	1.3	0.8	1.9	
All Buildings	67,876	46,248	42,768	9,966	54,944	7,996	4.7
Building Floorspace (square feet)							
1,001 to 5,000	7,327	5,109	4,160	813	6,183	839	7.0
5,001 to 10,000	7,199	5,502	4,691	968	6,328	803	5.9
10,001 to 25,000	10,375	7,504	6,690	1,546	9,130	1,333	6.8
25,001 to 50,000	10,069	6,566	6,097	1,463	8,460	872	10.2
50,001 to 100,000	8,062	6,191	5,824	1,664	6,850	935	8.9
100,001 to 200,000	9,678	6,622	6,368	1,353	8,245	1,435	11.5
200,001 to 500,000	7,889	4,637	4,643	1,210	5,300	817	14.6
Over 500,000	7,278	4,118	4,295	949	4,448	962	21.4
Principal Building Activity							
Education	8,470	7,703	6,846	2,567	8,368	1,117	8.8
Food Sales	757	359	352	Q	529	Q	23.0
Food Service	1,491	1,165	1,177	277	1,370	435	12.1
Health Care	1,763	420	440	Q	477	Q	20.7
Lodging	2,891	Q	Q	Q	Q	Q	17.2
Mercantile and Service	12,402	10,411	9,412	1,831	11,888	1,684	11.1
Office	12,319	10,221	10,153	2,179	11,612	2,052	7.5
Parking Garage	1,652	224	180	Q	360	Q	40.7
Public Assembly	4,556	2,856	2,562	738	3,299	229	15.6
Public Order and Safety	820	158	Q	Q	188	Q	31.8
Religious Worship	3,747	3,467	2,967	553	3,628	183	16.0
Warehouse and Storage	11,484	6,828	6,283	1,012	9,796	1,334	13.2
Other	1,130	512	603	Q	829	Q	22.8
Vacant	4,396	1,853	1,555	457	2,453	681	20.2
Year Constructed							
1899 or Before	1,721	1,231	1,047	193	1,615	182	16.6
1900 to 1919	3,608	2,571	2,183	433	3,158	644	20.4
1920 to 1945	8,712	5,927	5,264	1,345	7,275	1,138	14.5
1946 to 1959	10,421	7,385	6,666	1,447	8,738	1,199	9.3
1960 to 1969	12,612	8,816	8,373	2,070	10,456	1,142	10.5
1970 to 1979	14,014	9,221	8,756	1,947	10,971	1,711	7.4
1980 to 1989	14,287	9,235	8,776	2,153	10,724	1,589	10.3
1990 to 1992	2,502	1,862	1,703	380	2,007	390	16.0
Census Region							
Northeast	13,400	9,784	8,647	3,239	11,022	2,092	11.7
Midwest	17,280	11,672	10,289	1,513	13,927	1,101	8.7
South	24,577	15,849	15,770	3,068	19,511	2,784	7.4
West	12,619	8,943	8,062	2,146	10,483	2,019	8.8
Energy Sources (more than one may apply)							
Electricity	66,549	46,241	42,768	9,966	54,790	7,996	4.8
Natural Gas	45,097	33,985	31,820	7,212	38,038	5,361	5.9
Fuel Oil	13,218	8,778	8,045	3,172	9,855	1,546	8.9
District Heat	5,339	2,877	2,703	597	3,208	474	15.2
District Chilled Water	2,066	1,058	1,061	326	1,149	Q	21.7
Propane	3,393	2,420	2,039	630	2,719	564	15.8
Any Other	1,551	1,182	824	Q	1,285	Q	28.9

See footnotes at end of table.

Table A63. Reduction in Equipment Use During Off Hours, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	All Buildings	Off-Hour Equipment Reduction (more than one may apply)					RSE Row Factor
		Heating	Cooling	Hot Water	Lighting	Other	
RSE Column Factor:	0.8	0.8	0.8	1.3	0.8	1.9	
Energy End Uses (more than one may apply)							
Heated Buildings	61,996	46,248	42,090	9,854	51,638	7,839	4.9
Air-Conditioned Buildings	57,041	41,926	42,768	8,831	47,342	7,291	5.1
Buildings with Water Heating	58,479	42,817	40,185	9,966	48,476	7,424	5.0
Buildings with Cooking	23,065	15,994	15,633	4,555	17,764	2,854	8.1
Buildings with Manufacturing	3,174	2,453	2,277	438	2,703	712	16.0
Floors							
One	25,424	17,330	15,529	2,961	21,177	3,303	7.0
Two	18,025	14,059	12,948	2,892	15,994	2,071	7.3
Three	9,877	6,751	6,435	1,503	8,169	1,008	9.8
Four to Nine	10,377	5,181	4,887	1,513	6,520	957	12.3
Ten or More	4,173	2,927	2,968	1,098	3,085	657	18.8
Workers (main shift)							
Less than 5	17,944	9,628	7,658	1,602	12,716	1,151	8.6
5 to 9	7,524	5,842	5,193	904	6,833	1,055	8.3
10 to 19	8,077	5,649	5,169	1,216	7,168	1,067	9.2
20 to 49	10,556	8,030	7,747	1,724	9,110	1,235	8.4
50 to 99	7,763	6,026	5,799	1,366	6,733	1,234	12.5
100 to 249	7,378	5,194	5,108	1,363	5,861	1,054	13.8
250 or More	8,633	5,878	6,095	1,791	6,523	1,199	14.0
Weekly Operating Hours							
39 or Fewer	8,246	5,241	4,078	1,500	6,324	695	11.9
40 to 48	14,998	11,764	10,698	2,409	14,685	1,877	7.0
49 to 60	14,046	12,021	11,114	2,356	13,832	2,284	7.0
61 to 84	12,062	10,403	10,219	2,277	11,916	2,062	10.4
85 to 167	8,467	6,819	6,660	1,425	8,187	1,078	11.6
Open Continuously	10,057	Q	Q	Q	Q	Q	17.6
Ownership and Occupancy							
Nongovernment Owned	52,752	35,676	33,041	7,052	43,036	6,228	5.3
Owner Occupied	38,403	26,466	24,214	5,029	31,884	4,231	4.8
Nonowner Occupied	12,273	8,684	8,430	1,765	10,338	1,939	10.5
Unoccupied	2,077	526	398	258	814	Q	21.8
Government Owned	15,124	10,572	9,727	2,914	11,908	1,767	8.9
Primary Space-Heating Energy Source							
Electricity	15,502	10,439	9,788	2,604	11,948	1,913	8.8
Natural Gas	35,161	27,746	25,608	5,139	30,879	4,426	6.8
Fuel Oil	4,415	3,707	2,935	1,300	4,004	680	15.7
District Heat	5,014	2,659	2,489	564	2,971	458	16.0
Propane	1,101	955	734	170	1,049	276	23.2
Wood	257	218	Q	Q	242	Q	24.0
Any Other	546	525	Q	Q	546	Q	58.7
Cooling Energy Sources (more than one may apply)							
Electricity	54,628	40,349	41,173	8,479	45,643	7,000	5.2
Natural Gas	1,906	1,329	1,320	186	1,534	501	20.0
District Chilled Water	2,066	1,058	1,061	326	1,149	Q	21.7

See footnotes at end of table.

Table A63. Reduction in Equipment Use During Off Hours, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	All Buildings	Off-Hour Equipment Reduction (more than one may apply)					RSE Row Factor
		Heating	Cooling	Hot Water	Lighting	Other	
RSE Column Factor:	0.8	0.8	0.8	1.3	0.8	1.9	
Water-Heating Energy Sources (more than one may apply)							
Electricity	25,482	18,864	18,052	4,279	22,061	3,497	7.6
Natural Gas	29,962	21,990	20,532	4,908	24,389	3,609	6.9
Fuel Oil	2,470	2,008	1,623	964	2,107	367	20.9
District Heat	3,308	1,739	1,651	387	1,980	Q	20.0
Propane	659	557	454	270	581	Q	31.1
Cooking Energy Sources (more than one may apply)							
Electricity	12,183	8,627	8,325	2,430	9,461	1,811	12.0
Natural Gas	15,233	10,693	10,612	2,985	11,858	1,631	10.1
Propane	1,039	729	710	288	820	Q	29.0
Percent of Floorspace Heated							
Not Heated	6,211	Q	771	115	3,551	156	22.6
1 to 50	11,195	8,552	7,616	1,340	9,474	1,725	13.5
51 to 99	10,211	8,053	7,616	1,926	8,837	1,765	9.0
100	40,260	29,493	26,765	6,585	33,082	4,350	5.1
Percent of Floorspace Cooled							
Not Cooled	10,835	4,322	Q	1,135	7,602	704	10.5
1 to 50	21,715	16,548	16,782	3,304	18,829	3,095	8.0
51 to 99	13,872	10,204	10,766	2,410	11,369	1,993	9.4
100	21,454	15,174	15,221	3,117	17,144	2,204	7.0
Percent Lit when Open							
Not Lit	3,280	549	376	261	931	Q	21.0
1 to 50	9,980	7,112	6,132	941	9,075	1,117	10.5
51 to 99	14,224	10,292	9,896	2,617	11,767	1,611	8.2
100	40,393	28,295	26,364	6,147	33,171	5,205	5.9
Percent Lit when Closed							
Not Lit	34,486	17,880	15,259	3,706	22,449	2,900	6.6
1 to 50	31,482	27,215	26,285	5,934	31,126	4,871	5.8
51 to 99	1,021	748	827	Q	903	Q	22.4
100	887	405	398	Q	466	Q	25.8
Heating Equipment (more than one may apply)							
Heat Pumps	8,269	5,587	5,605	1,275	6,607	754	10.5
Furnaces	16,909	14,148	12,673	1,850	15,547	2,412	8.2
Individual Space Heaters	22,380	16,889	15,017	2,635	18,578	3,427	7.5
District Heat	5,225	2,830	2,663	586	3,146	474	15.3
Boilers	20,664	14,367	13,369	4,512	16,319	2,301	7.5
Packaged Heating Units	16,000	12,862	12,835	2,623	14,078	2,221	9.6
Other	903	564	542	Q	647	Q	29.3
Cooling Equipment (more than one may apply)							
Residential-Type Central							
Air Conditioners	9,021	7,011	7,147	1,126	7,900	1,102	9.3
Heat Pumps	8,406	5,753	5,822	1,330	6,732	773	10.3
Individual Air							
Conditioners	17,979	11,708	12,112	2,306	13,493	2,177	10.4
District Chilled Water	2,066	1,058	1,061	326	1,149	Q	21.7
Central Chillers	12,991	7,870	8,233	2,525	8,883	1,575	10.1
Packaged Air-Conditioning							
Units	27,830	20,867	21,335	4,190	23,440	3,983	6.5
Swamp Coolers	2,085	1,614	1,639	253	1,758	Q	24.9
Other	268	Q	Q	Q	237	Q	52.1

See footnotes at end of table.

Table A63. Reduction in Equipment Use During Off Hours, Floorspace, 1992 (Continued)
(Million Square Feet)

Building Characteristics	All Buildings	Off-Hour Equipment Reduction (more than one may apply)					RSE Row Factor
		Heating	Cooling	Hot Water	Lighting	Other	
RSE Column Factor:	0.8	0.8	0.8	1.3	0.8	1.9	
Lighting Equipment Types (more than one may apply)							
Incandescent	39,221	27,823	25,769	6,665	32,756	4,989	6.0
Standard Fluorescent	62,074	44,726	41,757	9,483	51,840	7,831	4.8
Compact Fluorescent	8,336	5,812	5,617	1,659	6,317	1,170	11.5
High-Intensity Discharge	17,570	12,443	11,986	3,081	14,013	2,170	9.5
Other	1,612	1,208	1,150	158	1,325	228	20.2
Water-Heating Equipment (more than one may apply)							
Centralized System	31,599	21,660	20,206	5,736	25,008	4,100	6.6
Self-Heating Tank	24,464	16,996	15,694	4,453	19,951	3,368	7.7
Heated by Space-Heating Equipment	3,722	2,410	2,303	604	2,577	484	19.4
Other	4,032	2,435	2,379	754	2,723	264	16.6
Distributed System	29,502	22,288	21,047	4,556	24,757	3,618	7.8
Residential-Type Storage Tank	25,809	20,255	19,122	4,167	22,633	3,312	7.9
Point-of-Use Heaters	3,367	1,932	1,849	332	2,009	Q	29.1
Other	1,259	723	688	151	767	Q	24.3
Energy Conservation Features (more than one may apply)							
Any Conservation Features	64,403	45,323	42,049	9,901	52,836	7,887	4.9
Building Shell	62,056	44,055	40,921	9,745	51,227	7,741	4.9
HVAC	50,281	36,041	34,136	8,391	40,914	5,783	4.9
Lighting	29,453	20,997	20,334	4,955	23,627	3,616	6.6
Other	5,952	4,236	3,851	982	4,467	783	10.0
Off-Hour Equipment Reduction (more than one may apply)							
Heating	46,248	46,248	40,965	9,705	45,945	7,182	4.9
Cooling	42,768	40,965	42,768	8,608	42,420	6,617	5.2
Hot Water	9,966	9,705	8,608	9,966	9,929	2,040	7.1
Lighting	54,944	45,945	42,420	9,929	54,944	7,957	4.6
Other	7,996	7,182	6,617	2,040	7,957	7,996	12.2

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

**Table A64. Participation in Lighting Demand-Side Management (DSM) Program,
Number of Buildings, 1992**
(Thousand)

Building Characteristics	All Buildings	All Buildings with Any DSM Programs	All Buildings with Lighting DSM Programs	Type of Lighting Assistance (more than one may apply)				RSE Row Factor
				General Information	Site-Specific Information	Incentives	Other	
RSE Column Factor:	0.3	0.8	0.9	1.3	1.3	1.3	1.8	
All Buildings	4,806	315	228	73	98	105	30	10.2
Building Floorspace (square feet)								
1,001 to 5,000	2,681	103	75	18	32	36	Q	17.8
5,001 to 10,000	975	66	47	17	26	24	Q	18.8
10,001 to 25,000	647	68	46	14	20	18	Q	16.7
25,001 to 50,000	280	30	25	10	10	11	Q	18.1
50,001 to 100,000	116	23	16	7	5	8	Q	16.9
100,001 to 200,000	71	14	9	3	2	4	3	20.1
200,001 to 500,000	26	9	8	3	2	3	2	21.2
Over 500,000	9	2	2	1	1	1	Q	22.2
Principal Building Activity								
Education	301	54	37	16	14	24	5	19.3
Food Sales	130	Q	Q	Q	Q	Q	Q	38.9
Food Service	260	24	18	Q	Q	Q	Q	25.7
Health Care	63	11	10	Q	Q	6	Q	35.0
Lodging	154	21	18	Q	Q	Q	Q	30.4
Mercantile and Service	1,272	50	40	14	18	15	Q	22.6
Office	749	62	47	21	26	17	6	16.8
Parking Garage	24	Q	Q	Q	Q	Q	Q	67.6
Public Assembly	278	24	14	Q	Q	Q	Q	22.1
Public Order and Safety	60	Q	Q	Q	Q	Q	Q	53.3
Religious Worship	366	15	Q	Q	Q	Q	Q	31.1
Warehouse and Storage	761	24	17	Q	Q	9	Q	29.4
Other	69	Q	Q	Q	Q	Q	Q	46.5
Vacant	319	7	Q	Q	Q	Q	Q	36.4
Year Constructed								
1899 or Before	169	12	9	Q	Q	Q	Q	39.5
1900 to 1919	255	18	14	Q	Q	Q	Q	34.5
1920 to 1945	724	45	36	11	18	17	Q	24.3
1946 to 1959	880	55	42	16	11	16	Q	18.6
1960 to 1969	783	53	39	8	14	25	4	19.8
1970 to 1979	982	74	53	15	24	24	8	17.7
1980 to 1989	884	51	31	10	18	12	5	20.5
1990 to 1992	128	7	4	2	1	Q	Q	35.2
Census Region								
Northeast	771	99	85	30	41	45	9	18.3
Midwest	1,202	68	49	14	10	32	4	21.8
South	1,963	72	44	10	22	7	10	20.7
West	870	75	50	19	25	21	8	20.9
Energy Sources (more than one may apply)								
Electricity	4,616	315	228	73	98	105	30	10.2
Natural Gas	2,665	195	144	55	55	69	19	12.3
Fuel Oil	559	65	50	16	25	20	6	18.1
District Heat	95	30	21	4	9	14	3	25.1
District Chilled Water	28	11	6	Q	4	Q	Q	40.5
Propane	337	18	14	Q	Q	Q	Q	35.7
Any Other	163	Q	Q	Q	Q	Q	Q	33.3

See footnotes at end of table.

Table A64. Participation in Lighting Demand-Side Management (DSM) Program, Number of Buildings, 1992 (Continued)

(Thousand)

Building Characteristics	All Buildings	All Buildings with Any DSM Programs	All Buildings with Lighting DSM Programs	Type of Lighting Assistance (more than one may apply)				RSE Row Factor
				General Information	Site-Specific Information	Incentives	Other	
RSE Column Factor:	0.3	0.8	0.9	1.3	1.3	1.3	1.8	
Ownership and Occupancy								
Nongovernment Owned	4,206	229	165	50	75	79	19	11.9
Owner Occupied	3,192	199	146	42	68	73	17	12.5
Nonowner Occupied	817	27	19	8	7	7	Q	24.9
Unoccupied	197	Q	Q	Q	Q	Q	Q	30.5
Government Owned	599	86	62	22	23	25	11	17.8

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A65. Participation in Lighting Demand-Side Management (DSM) Program, Floorspace, 1992
(Million Square Feet)

Building Characteristics	All Buildings	All Buildings with Any DSM Programs	All Buildings with Lighting DSM Programs	Type of Lighting Assistance (more than one may apply)				RSE Row Factor
				General Information	Site-Specific Information	Incentives	Other	
RSE Column Factor:	0.4	0.8	0.9	1.3	1.1	1.1	2.1	
All Buildings	67,876	11,310	8,805	3,168	2,691	3,785	1,946	9.3
Building Floorspace (square feet)								
1,001 to 5,000	7,327	321	225	60	94	113	Q	18.9
5,001 to 10,000	7,199	485	345	130	188	175	Q	19.0
10,001 to 25,000	10,375	1,075	704	225	302	298	Q	16.9
25,001 to 50,000	10,069	1,105	951	373	385	427	Q	18.2
50,001 to 100,000	8,062	1,581	1,128	501	357	549	Q	17.5
100,001 to 200,000	9,678	1,960	1,235	468	322	584	390	20.5
200,001 to 500,000	7,889	2,548	2,247	854	544	1,018	445	21.7
Over 500,000	7,278	2,235	1,970	557	499	620	Q	21.6
Principal Building Activity								
Education	8,470	2,560	1,933	791	608	1,083	293	19.9
Food Sales	757	Q	Q	Q	Q	Q	Q	39.4
Food Service	1,491	159	112	Q	Q	Q	Q	30.8
Health Care	1,763	911	715	Q	Q	343	Q	25.3
Lodging	2,891	707	515	Q	Q	Q	Q	34.7
Mercantile and Service	12,402	1,728	1,482	368	292	311	Q	26.2
Office	12,319	2,707	2,062	924	888	901	347	13.0
Parking Garage	1,652	Q	Q	Q	Q	Q	Q	67.3
Public Assembly	4,556	700	432	Q	Q	Q	Q	34.2
Public Order and Safety	820	Q	Q	Q	Q	Q	Q	58.8
Religious Worship	3,747	402	Q	Q	Q	Q	Q	39.7
Warehouse and Storage	11,484	648	537	Q	Q	256	Q	25.1
Other	1,130	221	194	Q	Q	Q	Q	43.5
Vacant	4,396	126	Q	Q	Q	Q	Q	37.8
Year Constructed								
1899 or Before	1,721	161	144	Q	Q	Q	Q	34.5
1900 to 1919	3,608	476	374	Q	Q	Q	Q	35.6
1920 to 1945	8,712	1,244	871	364	270	431	Q	22.6
1946 to 1959	10,421	1,331	1,105	420	233	489	Q	21.9
1960 to 1969	12,612	2,793	2,236	528	655	869	991	20.3
1970 to 1979	14,014	2,741	2,314	943	655	984	424	16.3
1980 to 1989	14,287	2,060	1,359	514	497	589	161	17.3
1990 to 1992	2,502	504	402	255	142	131	Q	26.0
Census Region								
Northeast	13,400	3,436	3,014	1,018	1,001	1,597	Q	16.2
Midwest	17,280	3,279	2,620	1,068	537	1,039	448	18.9
South	24,577	2,600	1,740	562	559	433	478	17.6
West	12,619	1,994	1,431	520	594	715	310	14.8
Energy Sources (more than one may apply)								
Electricity	66,549	11,310	8,805	3,168	2,691	3,785	1,946	9.3
Natural Gas	45,097	8,665	6,855	2,494	2,046	2,831	1,602	11.2
Fuel Oil	13,218	4,148	3,410	1,173	1,148	1,653	669	13.0
District Heat	5,339	1,676	1,305	497	349	747	391	20.0
District Chilled Water	2,066	644	479	Q	139	124	Q	31.2
Propane	3,393	529	427	Q	Q	Q	Q	33.6
Any Other	1,551	Q	Q	Q	Q	Q	Q	46.6

See footnotes at end of table.

Table A65. Participation in Lighting Demand-Side Management (DSM) Program, Floorspace, 1992 (Continued)

(Million Square Feet)

Building Characteristics	All Buildings	All Buildings with Any DSM Programs	All Buildings with Lighting DSM Programs	Type of Lighting Assistance (more than one may apply)				RSE Row Factor
				General Information	Site-Specific Information	Incentives	Other	
RSE Column Factor:	0.4	0.8	0.9	1.3	1.1	1.1	2.1	
Ownership and Occupancy								
Nongovernment Owned	52,752	7,030	5,492	1,994	1,829	2,418	946	9.2
Owner Occupied	38,403	5,883	4,691	1,755	1,617	2,077	849	9.6
Nonowner Occupied	12,273	1,105	772	239	183	341	Q	23.8
Unoccupied	2,077	Q	Q	Q	Q	Q	Q	30.2
Government Owned	15,124	4,279	3,313	1,174	862	1,366	1,000	17.6

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A66. Participation in Heating, Ventilation and Air Conditioning (HVAC) Demand-Side Management (DSM) Program, Number of Buildings, 1992
(Thousand)

Building Characteristics	All Buildings	All Buildings with Any DSM Programs	All Buildings with HVAC DSM Programs	Type of HVAC Assistance (more than one may apply)				RSE Row Factor
				General Information	Site-Specific Information	Incentives	Other	
RSE Column Factor:	0.3	0.8	0.9	1.4	1.3	1.6	1.5	
All Buildings	4,806	315	154	56	60	48	43	10.5
Building Floorspace (square feet)								
1,001 to 5,000	2,681	103	46	20	18	20	Q	18.9
5,001 to 10,000	975	66	30	Q	Q	Q	Q	17.9
10,001 to 25,000	647	68	36	11	16	Q	11	17.7
25,001 to 50,000	280	30	14	Q	6	Q	Q	19.5
50,001 to 100,000	116	23	12	4	4	2	4	19.5
100,001 to 200,000	71	14	9	4	3	3	4	19.7
200,001 to 500,000	26	9	5	2	2	1	2	25.2
Over 500,000	9	2	2	(*)	1	1	(*)	27.0
Principal Building Activity								
Education	301	54	32	10	8	17	7	22.0
Food Sales	130	Q	Q	Q	Q	Q	Q	41.5
Food Service	260	24	Q	Q	Q	Q	Q	26.7
Health Care	63	11	4	Q	Q	Q	2	32.1
Lodging	154	21	8	Q	Q	Q	Q	34.2
Mercantile and Service	1,272	50	21	Q	12	Q	Q	22.8
Office	749	62	27	13	12	5	8	19.5
Parking Garage	24	Q	Q	Q	Q	Q	Q	72.2
Public Assembly	278	24	15	Q	Q	Q	Q	24.1
Public Order and Safety	60	Q	Q	Q	Q	Q	Q	56.9
Religious Worship	366	15	Q	Q	Q	Q	Q	33.2
Warehouse and Storage	761	24	13	Q	Q	Q	Q	28.7
Other	69	Q	Q	Q	Q	Q	Q	49.6
Vacant	319	7	Q	Q	Q	Q	Q	38.9
Year Constructed								
1899 or Before	169	12	Q	Q	Q	Q	Q	39.9
1900 to 1919	255	18	7	Q	Q	Q	Q	37.3
1920 to 1945	724	45	14	8	Q	Q	Q	26.8
1946 to 1959	880	55	24	6	Q	10	4	22.2
1960 to 1969	783	53	29	8	10	10	8	22.6
1970 to 1979	982	74	43	19	14	6	12	20.1
1980 to 1989	884	51	27	8	15	12	8	21.3
1990 to 1992	128	7	Q	1	Q	Q	Q	40.4
Census Region								
Northeast	771	99	30	11	13	7	11	21.1
Midwest	1,202	68	33	13	10	9	10	19.1
South	1,963	72	49	18	19	13	9	21.5
West	870	75	41	14	19	19	13	20.5
Energy Sources (more than one may apply)								
Electricity	4,616	315	154	56	60	48	43	10.4
Natural Gas	2,665	195	92	38	33	31	27	11.6
Fuel Oil	559	65	32	7	13	4	11	21.5
District Heat	95	30	16	4	8	6	5	28.9
District Chilled Water	28	11	6	Q	Q	Q	Q	46.4
Propane	337	18	8	Q	Q	Q	Q	40.2
Any Other	163	Q	Q	Q	Q	Q	Q	35.5

See footnotes at end of table.

Table A66. Participation in Heating, Ventilation and Air Conditioning (HVAC) Demand-Side Management (DSM) Program, Number of Buildings, 1992 (Continued)

(Thousand)

Building Characteristics	All Buildings	All Buildings with Any DSM Programs	All Buildings with HVAC DSM Programs	Type of HVAC Assistance (more than one may apply)				RSE Row Factor
				General Information	Site-Specific Information	Incentives	Other	
RSE Column Factor:	0.3	0.8	0.9	1.4	1.3	1.6	1.5	
Ownership and Occupancy								
Nongovernment Owned	4,206	229	104	41	44	27	30	11.7
Owner Occupied	3,192	199	89	34	37	22	26	12.3
Nonowner Occupied	817	27	13	7	5	5	Q	25.4
Unoccupied	197	Q	Q	Q	Q	Q	Q	32.6
Government Owned	599	86	49	15	16	21	13	19.9

(*) = Value rounds to zero in the units displayed.

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A67. Participation in Heating, Ventilation and Air Conditioning (HVAC) Demand-Side Management (DSM) Program, Number of Buildings, 1992
(Million Square Feet)

Building Characteristics	All Buildings	All Buildings with Any DSM Programs	All Buildings with HVAC DSM Programs	Type of HVAC Assistance (more than one may apply)				RSE Row Factor
				General Information	Site-Specific Information	Incentives	Other	
RSE Column Factor:	0.4	0.7	0.9	1.4	1.1	1.6	1.5	
All Buildings	67,876	11,310	6,370	2,389	2,395	1,775	2,086	9.9
Building Floorspace (square feet)								
1,001 to 5,000	7,327	321	152	69	60	70	Q	19.7
5,001 to 10,000	7,199	485	222	Q	Q	Q	Q	16.7
10,001 to 25,000	10,375	1,075	595	186	247	Q	177	17.6
25,001 to 50,000	10,069	1,105	541	Q	229	Q	Q	19.9
50,001 to 100,000	8,062	1,581	843	289	321	154	320	19.5
100,001 to 200,000	9,678	1,960	1,236	553	449	361	529	20.3
200,001 to 500,000	7,889	2,548	1,490	636	502	312	537	25.4
Over 500,000	7,278	2,235	1,291	430	509	498	274	23.5
Principal Building Activity								
Education	8,470	2,560	1,434	595	547	358	522	22.6
Food Sales	757	Q	Q	Q	Q	Q	Q	41.7
Food Service	1,491	159	Q	Q	Q	Q	Q	30.8
Health Care	1,763	911	663	Q	Q	Q	410	27.5
Lodging	2,891	707	510	Q	Q	Q	Q	36.9
Mercantile and Service	12,402	1,728	690	Q	287	Q	Q	25.3
Office	12,319	2,707	1,696	730	697	370	417	14.0
Parking Garage	1,652	Q	Q	Q	Q	Q	Q	71.2
Public Assembly	4,556	700	461	Q	Q	Q	Q	35.1
Public Order and Safety	820	Q	Q	Q	Q	Q	Q	62.2
Religious Worship	3,747	402	Q	Q	Q	Q	Q	42.0
Warehouse and Storage	11,484	648	320	Q	Q	Q	Q	28.8
Other	1,130	221	Q	Q	Q	Q	Q	44.2
Vacant	4,396	126	Q	Q	Q	Q	Q	40.0
Year Constructed								
1899 or Before	1,721	161	Q	Q	Q	Q	Q	35.6
1900 to 1919	3,608	476	189	Q	Q	Q	Q	38.3
1920 to 1945	8,712	1,244	741	350	Q	Q	Q	29.3
1946 to 1959	10,421	1,331	629	182	Q	159	180	21.1
1960 to 1969	12,612	2,793	1,497	369	642	308	638	19.3
1970 to 1979	14,014	2,741	1,637	796	417	480	494	20.1
1980 to 1989	14,287	2,060	1,289	436	554	388	368	19.1
1990 to 1992	2,502	504	330	196	207	141	142	26.7
Census Region								
Northeast	13,400	3,436	1,386	601	672	546	357	19.4
Midwest	17,280	3,279	1,988	742	675	393	649	20.5
South	24,577	2,600	1,777	566	555	299	619	17.5
West	12,619	1,994	1,220	479	495	537	461	16.3
Energy Sources (more than one may apply)								
Electricity	66,549	11,310	6,370	2,389	2,395	1,775	2,086	9.9
Natural Gas	45,097	8,665	4,910	1,806	1,670	1,343	1,679	11.3
Fuel Oil	13,218	4,148	2,818	797	1,076	872	1,084	14.3
District Heat	5,339	1,676	966	410	437	341	317	22.7
District Chilled Water	2,066	644	418	Q	225	131	178	25.8
Propane	3,393	529	365	Q	Q	Q	Q	35.6
Any Other	1,551	Q	Q	Q	Q	Q	Q	49.3

See footnotes at end of table.

Table A67. Participation in Heating, Ventilation and Air Conditioning (HVAC) Demand-Side Management (DSM) Program, Number of Buildings, 1992 (Continued)

(Million Square Feet)

Building Characteristics	All Buildings	All Buildings with Any DSM Programs	All Buildings with HVAC DSM Programs	Type of HVAC Assistance (more than one may apply)				RSE Row Factor
				General Information	Site-Specific Information	Incentives	Other	
RSE Column Factor:	0.4	0.7	0.9	1.4	1.1	1.6	1.5	
Ownership and Occupancy								
Nongovernment Owned	52,752	7,030	4,120	1,473	1,477	1,196	1,177	9.5
Owner Occupied	38,403	5,883	3,407	1,232	1,271	948	1,008	10.3
Nonowner Occupied	12,273	1,105	701	241	193	248	Q	24.2
Unoccupied	2,077	Q	Q	Q	Q	Q	Q	31.9
Government Owned	15,124	4,279	2,250	915	919	578	909	19.4

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A68. Principal Building Activity, Number of Buildings and Floorspace, 1992

Building Characteristics	All Buildings (thousand)	Total Floorspace (million square feet)	RSE Row Factor
	0.9	1.1	
RSE Column Factor:			
All Buildings	4,806	67,876	3.7
Principal Building Activity			
Education	301	8,470	7.5
Food Sales	130	757	14.5
Food Service	260	1,491	8.7
Health Care			
Inpatient	19	1,287	18.7
Outpatient	44	476	17.8
Laboratory	19	510	23.7
Lodging	131	2,175	12.7
Mercantile and Service	1,272	12,402	6.3
Office	749	12,319	5.8
Parking Garage	24	1,652	25.0
Public Assembly	278	4,556	12.8
Public Order and Safety	60	820	20.7
Religious Worship	366	3,747	10.9
Skilled Nursing	23	715	22.2
Warehouse and Storage			
Nonrefrigerated	733	11,056	8.1
Refrigerated	28	428	26.2
Other	50	620	18.1
Vacant	319	4,396	10.4

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A69. Energy Sources Used for Particular End Uses, Number of Buildings, 1992
(Thousand)

Building Characteristics	All Buildings Using Energy	Energy End Use in Building							RSE Row Factor
		Primary Space Heating	Secondary Space Heating	Water Heating	Cooling	Cooking	Manufacturing	Electricity Generation	
RSE Column Factor:	0.9	1.7	1.5	1.1	0.3	0.7	1.9	1.1	
All Buildings	4,620	4,178	682	3,502	3,502	734	121	153	5.4
Energy Sources Used for End Use (more than one may apply)									
Electricity	4,616	1,107	406	1,696	3,404	356	95	Q	5.8
Natural Gas	2,665	2,276	130	1,647	106	431	22	44	8.8
Fuel Oil	559	394	84	126	Q	Q	Q	73	13.6
District Heat	95	91	4	38	(*)	6	Q	Q	20.6
District Chilled Water	28	--	--	--	28	--	--	--	5.5
Propane	337	217	38	80	Q	70	9	9	21.5
Wood	103	68	33	Q	--	Q	Q	Q	12.8
Any Other	67	Q	Q	Q	Q	Q	Q	25	24.6

(*) = Value rounds to zero in the units displayed.

-- = Data not applicable.

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.

Table A70. Energy Sources Used for Particular End Uses, Floorspace, 1992

(Million Square Feet)

Building Characteristics	All Buildings Using Energy	Energy End Use in Building							RSE Row Factor
		Primary Space Heating	Secondary Space Heating	Water Heating	Cooling	Cooking	Manufacturing	Electricity Generation	
RSE Column Factor:	0.8	1.3	1.7	1.1	0.3	1.0	1.5	0.9	
Total Floorspace	66,574	61,996	16,517	58,479	57,041	23,065	3,174	10,373	5.7
Energy Sources Used for End Use (more than one may apply)									
Electricity	66,549	15,502	10,134	25,482	54,628	12,183	2,579	Q	7.6
Natural Gas	45,097	35,161	3,363	29,962	1,906	15,233	799	2,691	8.8
Fuel Oil	13,218	4,415	2,919	2,470	Q	Q	Q	6,984	10.9
District Heat	5,339	5,014	449	3,308	210	809	Q	Q	19.0
District Chilled Water	2,066	--	--	--	2,066	--	--	--	5.4
Propane	3,393	1,101	466	659	Q	1,039	201	312	22.1
Wood	518	257	248	Q	--	Q	Q	Q	11.9
Any Other	1,067	546	Q	Q	Q	Q	Q	358	33.4

-- = Data not applicable.

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

Notes: • To obtain a RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, "Building Questionnaire," 1992 Commercial Buildings Energy Consumption Survey.