

Table 3.1. Summary of All Buildings, All Buildings Using Any Major Fuel, and Number of Buildings by Major Fuel Used, 1992

Building Characteristics	All Buildings			All Buildings Using Any Major Fuels		Number of Buildings Using Each Major Fuel (thousand) (more than one may apply)				RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Total Workers (thousand)	Number of Buildings (thousand)	Floorspace (million square feet)	Electricity	Natural Gas	Fuel Oil	District Heat	
	0.7	0.8	1.0	0.7	0.7	0.7	0.9	1.9	2.9	
RSE Column Factor:	0.7	0.8	1.0	0.7	0.7	0.7	0.9	1.9	2.9	
All Buildings	4,806	67,876	71,236	4,615	66,538	4,611	2,657	560	95	5.53
Building Floorspace (square feet)										
1,001 to 5,000	2,681	7,327	9,701	2,539	6,995	2,535	1,325	289	Q	7.20
5,001 to 10,000	975	7,199	7,644	954	7,057	954	573	125	Q	5.88
10,001 to 25,000	647	10,375	10,357	628	10,097	628	417	62	28	7.43
25,001 to 50,000	280	10,069	8,674	275	9,856	275	182	38	16	9.56
50,001 to 100,000	116	8,062	7,830	114	7,926	114	83	21	9	10.17
100,001 to 200,000	71	9,678	8,282	70	9,658	70	52	11	6	11.02
200,001 to 500,000	26	7,889	7,545	25	7,678	25	18	10	5	12.51
Over 500,000	9	7,278	11,203	9	7,271	9	6	4	1	23.38
Principal Building Activity										
Education	301	8,470	6,872	301	8,470	301	197	28	21	10.15
Food Sales	130	757	842	130	757	130	70	Q	Q	19.52
Food Service	260	1,491	2,244	260	1,491	260	196	Q	Q	10.98
Health Care	63	1,763	3,385	63	1,763	63	45	7	Q	17.12
Lodging	154	2,891	2,022	154	2,891	154	98	18	9	15.51
Mercantile and Service	1,272	12,402	15,979	1,270	12,399	1,267	762	200	Q	9.13
Office	749	12,319	27,161	749	12,319	749	474	87	24	8.19
Parking Garage	24	1,652	215	24	1,652	24	11	Q	Q	35.73
Public Assembly	278	4,556	2,752	278	4,556	278	169	29	10	13.35
Public Order and Safety	60	820	801	60	820	60	37	Q	Q	26.00
Religious Worship	366	3,747	2,298	366	3,747	366	209	60	Q	14.61
Warehouse and Storage	761	11,484	4,451	685	11,179	685	264	63	Q	10.74
Other	69	1,130	1,232	65	1,124	65	29	Q	Q	20.89
Vacant	319	4,396	981	210	3,371	210	95	Q	Q	16.80
Year Constructed										
1899 or Before	169	1,721	1,531	169	1,721	169	110	31	Q	16.07
1900 to 1919	255	3,608	3,004	244	3,401	244	178	52	Q	15.39
1920 to 1945	724	8,712	6,597	681	8,385	681	436	106	13	10.63
1946 to 1959	880	10,421	9,114	839	10,135	839	516	107	22	9.62
1960 to 1969	783	12,612	17,873	757	12,473	757	463	89	22	10.25
1970 to 1979	982	14,014	14,400	945	13,781	945	513	91	9	8.66
1980 to 1989	884	14,287	15,987	855	14,153	853	387	74	11	9.19
1990 to 1992	128	2,502	2,731	127	2,489	124	53	8	Q	18.03
Census Region and Division										
Northeast	771	13,400	18,570	755	13,235	755	370	284	23	11.43
New England	186	3,265	3,821	186	3,265	186	63	104	Q	27.22
Middle Atlantic	585	10,135	14,749	569	9,971	569	307	180	17	17.28
Midwest	1,202	17,280	14,872	1,141	16,909	1,139	843	80	24	9.11
East North Central	749	10,712	9,482	725	10,581	723	557	60	10	12.03
West North Central	453	6,568	5,390	416	6,328	416	287	20	13	20.63
South	1,963	24,577	23,220	1,874	23,979	1,872	882	182	27	9.33
South Atlantic	755	10,586	10,932	736	10,431	736	185	130	Q	13.15
East South Central	454	5,375	5,117	428	5,237	428	223	35	Q	19.19
West South Central	754	8,616	7,171	710	8,311	708	474	17	Q	19.67
West	870	12,619	14,574	845	12,415	845	562	14	21	11.50
Mountain	297	3,645	4,292	283	3,562	283	198	Q	Q	23.67
Pacific	574	8,974	10,282	562	8,853	562	364	11	12	12.03

See footnotes at end of table.

Table 3.1. Summary of All Buildings, All Buildings Using Any Major Fuel, and Number of Buildings by Major Fuel Used, 1992 (Continued)

Building Characteristics	All Buildings			All Buildings Using Any Major Fuels		Number of Buildings Using Each Major Fuel (thousand) (more than one may apply)				RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Total Workers (thousand)	Number of Buildings (thousand)	Floorspace (million square feet)	Electricity	Natural Gas	Fuel Oil	District Heat	
	0.7	0.8	1.0	0.7	0.7	0.7	0.9	1.9	2.9	
RSE Column Factor:	0.7	0.8	1.0	0.7	0.7	0.7	0.9	1.9	2.9	
Climate Zone: 45-Year Average										
Fewer than 2,000 CDD and --										
More than 7,000 HDD	399	5,623	4,818	382	5,476	382	229	80	10	18.72
5,500-7,000 HDD	1,134	18,024	17,497	1,089	17,719	1,089	763	185	29	11.66
4,000-5,499 HDD	1,077	16,162	20,520	1,041	15,971	1,039	480	211	27	17.80
Fewer than 4,000 HDD	1,101	15,251	16,627	1,056	14,871	1,054	647	52	13	18.02
More than 2,000 CDD and --										
Fewer than 4,000 HDD	1,095	12,816	11,774	1,048	12,501	1,048	539	31	16	16.34
Energy Sources (more than one may apply)										
Electricity	4,611	66,525	71,186	4,611	66,525	4,611	2,655	557	95	5.21
Natural Gas	2,657	44,994	51,206	2,657	44,994	2,655	2,657	130	36	6.74
Fuel Oil	560	13,215	18,066	560	13,215	557	130	560	11	11.87
District Heat	95	5,245	7,142	95	5,245	95	36	11	95	18.47
District Chilled Water	28	1,914	2,709	28	1,914	28	16	2	23	20.78
Propane	337	3,393	2,884	337	3,393	335	19	61	Q	17.99
Any Other	163	1,551	1,320	161	1,547	159	43	Q	Q	18.68
Energy End Uses (more than one may apply)										
Heated Buildings	4,178	61,996	69,607	4,176	61,978	4,172	2,619	555	94	5.59
Buildings with A/C	3,502	57,041	66,909	3,502	57,041	3,502	2,254	378	81	5.88
Buildings with Water Heating	3,502	58,479	67,233	3,502	58,479	3,502	2,324	434	81	5.70
Buildings with Cooking	734	23,065	30,935	734	23,065	734	531	101	19	8.40
Buildings with Manufacturing	121	3,174	2,538	121	3,174	118	81	20	Q	17.90
Workers (main shift)										
Less than 5	2,718	17,944	4,736	2,530	16,629	2,526	1,258	305	22	8.47
5 to 9	895	7,524	5,758	895	7,524	895	559	94	14	7.66
10 to 19	561	8,077	7,148	560	8,054	560	383	67	22	9.48
20 to 49	405	10,556	11,777	405	10,556	405	300	43	17	7.95
50 to 99	130	7,763	8,375	130	7,763	130	87	21	10	10.79
100 or More	96	16,011	33,442	96	16,011	96	70	29	10	8.99
Weekly Operating Hours										
39 or Fewer	1,039	8,246	3,997	886	7,065	886	404	119	Q	10.65
40 to 48	1,278	14,998	17,500	1,270	14,952	1,268	755	147	34	7.77
49 to 60	1,004	14,046	15,478	994	14,026	992	597	131	16	7.47
61 to 84	645	12,062	12,667	641	12,028	641	403	76	9	8.07
85 to 167	478	8,467	12,470	475	8,455	475	299	41	7	12.79
Open Continuously	362	10,057	9,124	349	10,011	349	199	44	19	10.59
Ownership and Occupancy										
Nongovernment Owned	4,206	52,752	52,310	4,037	51,590	4,033	2,300	484	44	5.40
Owner Occupied	3,192	38,403	39,329	3,129	38,169	3,126	1,806	415	34	5.34
Single Establishment	2,864	29,992	27,824	2,802	29,764	2,799	1,597	367	31	6.31
Multiple Establishment	328	8,411	11,504	327	8,405	327	209	48	4	12.03
Nonowner Occupied	817	12,273	12,810	796	12,156	796	458	63	Q	9.12
Single Establishment	495	5,565	5,064	485	5,520	485	261	40	Q	13.21
Multiple Establishment	322	6,708	7,746	311	6,636	311	197	23	Q	11.28
Vacant	197	2,077	171	112	1,265	112	35	Q	Q	22.68
Government Owned	599	15,124	18,926	578	14,948	578	357	75	51	10.39

See footnotes at end of table.

Table 3.1. Summary of All Buildings, All Buildings Using Any Major Fuel, and Number of Buildings by Major Fuel Used, 1992 (Continued)

Building Characteristics	All Buildings			All Buildings Using Any Major Fuels		Number of Buildings Using Each Major Fuel (thousand) (more than one may apply)				RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Total Workers (thousand)	Number of Buildings (thousand)	Floorspace (million square feet)	Electricity	Natural Gas	Fuel Oil	District Heat	
	0.7	0.8	1.0	0.7	0.7	0.7	0.9	1.9	2.9	
Predominant Exterior Wall Material										
Masonry	3,115	48,585	45,457	3,033	47,814	3,033	1,945	374	76	5.37
Siding or Shingles	764	3,873	4,305	718	3,654	715	318	114	Q	9.96
Metal Panels	745	7,392	4,788	691	7,131	690	292	48	Q	11.34
Concrete Panels	87	4,961	10,320	85	4,906	85	50	5	7	17.16
Window Glass	46	2,028	4,302	43	2,008	43	27	9	Q	22.41
Other	47	1,037	2,064	46	1,024	46	26	10	Q	28.42
Predominant Roof Material										
Built-Up	1,642	30,257	31,481	1,593	29,757	1,593	1,039	171	40	6.62
Shingles (Not Wood)	1,381	10,570	9,630	1,350	10,328	1,347	752	190	10	8.36
Metal Surfacing	1,037	9,019	6,541	947	8,639	946	402	85	Q	10.08
Synthetic or Rubber	386	11,702	18,127	378	11,595	378	267	73	14	10.21
Other	359	6,328	5,456	347	6,219	347	196	40	19	13.08
Floors										
One	3,007	25,424	21,565	2,848	24,572	2,844	1,490	251	33	7.71
Two	1,154	18,025	19,949	1,132	17,879	1,132	725	153	18	8.26
Three	446	9,877	9,592	438	9,710	438	303	102	14	8.97
Four to Nine	186	10,377	11,258	185	10,256	185	130	47	26	12.33
Ten or More	13	4,173	8,872	13	4,122	13	9	6	3	18.17
Percent Window Glass										
25 or Less	4,193	51,356	42,768	4,009	50,094	4,005	2,241	473	75	5.66
26 to 50	490	11,815	19,249	485	11,743	485	341	64	16	9.30
51 to 75	94	3,206	5,995	92	3,202	92	62	16	Q	15.73
76 to 100	29	1,499	3,225	29	1,499	29	14	6	Q	25.83
Building Shape										
Square	280	3,654	3,673	269	3,545	269	147	28	4	11.56
Rectangle	3,659	39,233	38,955	3,489	38,140	3,485	1,956	422	66	5.53
Right Angle	333	6,071	5,723	328	6,028	328	208	48	7	9.96
Other	533	18,919	22,884	529	18,824	529	346	62	17	10.17
Energy-Related Space Functions (more than one may apply)										
Commercial Food Preparation	735	22,166	30,938	735	22,166	735	533	101	19	8.23
Computer Room	223	14,199	22,847	223	14,199	223	149	51	11	9.99
Rooms with Special Ventilation	236	8,042	9,190	236	8,036	236	162	43	17	10.20
Activities with Large Amounts of Hot Water	203	6,862	7,084	203	6,862	203	154	23	6	10.60
Space-Heating Energy Sources (more than one may apply)										
Electricity	1,513	25,636	31,533	1,513	25,636	1,513	553	134	17	8.76
Natural Gas	2,397	38,467	42,837	2,397	38,467	2,395	2,397	98	6	7.83
Fuel Oil	478	7,323	8,224	478	7,323	478	91	478	Q	12.68
District Heat	91	5,130	6,998	91	5,130	91	33	11	91	14.11
Propane	255	1,568	1,282	255	1,568	253	Q	25	Q	19.96
Wood	102	504	461	100	500	98	21	Q	Q	23.21
Any Other	39	661	368	39	661	39	Q	Q	Q	46.10
Cooling Energy Sources (more than one may apply)										
Electricity	3,404	54,628	63,747	3,404	54,628	3,404	2,166	375	65	6.07
Natural Gas	106	1,906	2,430	106	1,906	106	106	3	Q	15.05
District Chilled Water	28	1,914	2,709	28	1,914	28	16	2	23	20.78

See footnotes at end of table.

Table 3.1. Summary of All Buildings, All Buildings Using Any Major Fuel, and Number of Buildings by Major Fuel Used, 1992 (Continued)

Building Characteristics	All Buildings			All Buildings Using Any Major Fuels		Number of Buildings Using Each Major Fuel (thousand) (more than one may apply)				RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Total Workers (thousand)	Number of Buildings (thousand)	Floorspace (million square feet)	Electricity	Natural Gas	Fuel Oil	District Heat	
	0.7	0.8	1.0	0.7	0.7	0.7	0.9	1.9	2.9	
Water-Heating Energy Sources (more than one may apply)										
Electricity	1,696	25,482	27,488	1,696	25,482	1,696	723	233	30	7.05
Natural Gas	1,643	29,950	34,849	1,643	29,950	1,643	1,643	78	18	8.79
Fuel Oil	125	2,469	3,032	125	2,469	125	21	125	Q	20.55
District Heat	36	3,292	4,895	36	3,292	36	11	5	36	18.13
Propane	80	659	555	80	659	80	Q	Q	Q	30.87
Cooking Energy Sources (more than one may apply)										
Electricity	356	12,183	18,405	356	12,183	356	204	61	10	11.52
Natural Gas	430	15,204	21,586	430	15,204	430	430	35	12	10.43
Propane	70	1,039	1,072	70	1,039	70	Q	28	Q	24.43
Manufacturing Energy Sources (more than one may apply)										
Electricity	95	2,579	2,101	95	2,579	95	64	13	Q	17.95
Natural Gas	22	799	627	22	799	22	22	Q	Q	31.42
Other	15	343	227	15	343	13	Q	Q	Q	39.84
Percent of Floorspace Heated										
Not Heated	628	5,880	1,629	439	4,560	439	38	Q	Q	18.31
1 to 50	713	11,525	10,002	711	11,507	711	377	92	Q	12.67
51 to 99	618	10,211	11,922	618	10,211	615	425	85	9	9.08
100	2,846	40,260	47,682	2,846	40,260	2,846	1,816	377	81	5.46
Percent of Floorspace Cooled										
Not Cooled	1,304	10,835	4,327	1,113	9,497	1,110	402	182	13	9.33
1 to 50	1,176	21,715	13,207	1,176	21,715	1,176	733	191	24	7.27
51 to 99	658	13,872	23,943	658	13,872	658	457	79	18	9.77
100	1,668	21,454	29,759	1,668	21,454	1,668	1,063	108	39	7.14
Heating Equipment (more than one may apply)										
Heat Pumps	449	8,269	9,484	449	8,269	449	135	26	8	12.06
Furnaces	1,692	16,909	19,794	1,692	16,909	1,692	1,257	266	Q	8.46
Individual Space Heaters	1,464	22,380	24,549	1,462	22,376	1,459	881	189	15	8.80
District Heat	93	5,225	7,043	93	5,225	93	35	11	93	13.72
Boilers	624	20,664	22,422	624	20,664	624	443	220	Q	7.27
Packaged Heating Units	870	16,000	22,847	870	16,000	870	604	29	Q	10.30
Other	42	903	1,143	42	903	42	23	Q	Q	27.35
Heating Distribution Equipment (more than one may apply)										
Radiators or Baseboards	473	13,263	13,548	473	13,263	473	303	173	47	8.42
Ducts for Heating	2,955	45,422	55,081	2,955	45,422	2,954	1,953	347	51	5.84
VAV System Used	210	11,528	19,351	210	11,528	210	169	32	13	11.94
Individual Space Heaters	1,464	22,380	24,549	1,462	22,376	1,459	881	189	15	8.80
Fan Coil Units or Other	276	8,457	8,928	276	8,457	276	181	61	21	10.16
Cooling Equipment (more than one may apply)										
Residential-Type Central A/C	816	9,021	9,734	816	9,021	816	606	81	Q	9.88
Heat Pumps	454	8,406	9,559	454	8,406	454	138	30	8	11.58
Individual A/C	1,023	17,979	17,997	1,023	17,979	1,023	637	195	25	10.57
District Chilled Water	28	2,066	2,709	28	2,066	28	16	2	24	20.89
Central Chillers	142	12,991	18,483	142	12,991	142	109	35	14	10.57
Packaged A/C Units	1,459	27,830	32,786	1,459	27,830	1,459	1,048	116	24	6.90
Swamp Coolers	179	2,085	3,033	179	2,085	179	134	Q	Q	27.58
Other	8	268	254	Q	268	Q	Q	Q	Q	50.78

See footnotes at end of table.

Table 3.1. Summary of All Buildings, All Buildings Using Any Major Fuel, and Number of Buildings by Major Fuel Used, 1992 (Continued)

Building Characteristics	All Buildings			All Buildings Using Any Major Fuels		Number of Buildings Using Each Major Fuel (thousand) (more than one may apply)				RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Total Workers (thousand)	Number of Buildings (thousand)	Floorspace (million square feet)	Electricity	Natural Gas	Fuel Oil	District Heat	
	0.7	0.8	1.0	0.7	0.7	0.7	0.9	1.9	2.9	
Cooling Distribution Equipment (more than one may apply)										
Ducts for Cooling	2,733	47,755	55,881	2,733	47,755	2,733	1,801	231	64	5.44
VAV System Used	221	12,430	17,840	221	12,430	221	172	35	18	10.19
Individual A/C	1,023	17,979	17,997	1,023	17,979	1,023	637	195	25	10.57
Fan Coil Units or Other	166	6,611	8,194	166	6,611	166	117	21	12	14.71
Water-Heating Equipment (more than one may apply)										
Centralized System	1,994	31,599	35,671	1,994	31,599	1,994	1,323	300	57	7.61
Distributed System	1,557	29,502	34,002	1,557	29,502	1,557	1,039	142	26	9.12
Energy Conservation Features (more than one may apply)										
Any Conservation Features	4,357	64,403	70,198	4,259	63,704	4,257	2,534	541	94	5.58
Building Shell	4,223	62,056	69,106	4,126	61,357	4,124	2,458	525	90	5.63
HVAC	2,604	50,281	61,007	2,604	50,281	2,604	1,657	397	86	5.96
Lighting	1,178	29,453	39,524	1,178	29,453	1,178	779	190	50	7.06
Other	264	5,952	5,992	263	5,927	263	175	56	10	11.38
Energy Management Practices (more than one may apply)										
Energy Management and Control System	236	14,320	20,784	236	14,320	236	179	37	26	9.68
Demand-Side Management ¹ Participation	315	11,310	19,265	315	11,310	315	197	65	30	10.67
Energy Audit	521	14,779	18,789	520	14,734	520	337	85	27	8.64
Building Energy Manager	49	2,311	3,547	49	2,311	49	31	6	5	21.00

¹ These Demand-Side Management (DSM) data, which include utility-sponsored programs, in-house programs, and third-party sponsored programs, were reported by the building respondent on the Building Questionnaire (Form EIA-871A). The electric utility-sponsored DSM data reported by the electricity suppliers (Form EIA-871E-1b) are presented in the "At a Glance" section and Table 3.49 of this section. See Appendix B, "Nonsampling and Sampling Errors," for a discussion of the differences between the energy supplier-reported data and building respondent-reported data.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding RSE column and RSE row factors. • Total workers are the number of workers during the main shift. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • Statistics for the "energy end uses" represent consumption in buildings that have end use, not consumption for a particular fuel for a particular end use. • A/C = Air Conditioning. • HVAC = Heating, Ventilation, and Air Conditioning. • VAV = Variable Air Volume. • Because of rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A through F of the 1992 Commercial Buildings Energy Consumption Survey.