

**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	
<b>All Buildings</b> .....	4,806	67,876	71,236	4,615	66,538	4,611	2,657	560	95	5.53
<b>Building Floorspace (square feet)</b>										
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
<b>Principal Building Activity</b>										
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
<b>Year Constructed</b>										
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
<b>Census Region and Division</b>										
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	
<b>Climate Zone: 45-Year Average</b>										
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
<b>Energy Sources (more than one may apply)</b>										
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
<b>Energy End Uses (more than one may apply)</b>										
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
<b>Workers (main shift)</b>										
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
<b>Weekly Operating Hours</b>										
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
<b>Ownership and Occupancy</b>										
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	
<b>Predominant Exterior Wall Material</b>										
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
<b>Predominant Roof Material</b>										
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
<b>Floors</b>										
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
<b>Percent Window Glass</b>										
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
<b>Building Shape</b>										
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
<b>Energy-Related Space Functions (more than one may apply)</b>										
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
<b>Space-Heating Energy Sources (more than one may apply)</b>										
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
<b>Cooling Energy Sources (more than one may apply)</b>										
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	
<b>Water-Heating Energy Sources (more than one may apply)</b>										
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
<b>Cooking Energy Sources (more than one may apply)</b>										
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
<b>Manufacturing Energy Sources (more than one may apply)</b>										
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
<b>Percent of Floorspace Heated</b>										
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
<b>Percent of Floorspace Cooled</b>										
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
<b>Heating Equipment (more than one may apply)</b>										
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
<b>Heating Distribution Equipment (more than one may apply)</b>										
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
<b>Cooling Equipment (more than one may apply)</b>										
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.

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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	
<b>Cooling Distribution Equipment (more than one may apply)</b>										
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
<b>Water-Heating Equipment (more than one may apply)</b>										
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
<b>Energy Conservation Features (more than one may apply)</b>										
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
<b>Energy Management Practices (more than one may apply)</b>										
Energy Management and Control System .....	236	14,320	20,784	236	14,320	236	179	37	26	9.68
Demand-Side Management <sup>1</sup> 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

<sup>1</sup> 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.

**Table 3.2. Total Energy Consumption by Major Fuel, 1992**

Building Characteristics	All Buildings		Total Energy Consumption (trillion Btu)						RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Total of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat	
				Primary	Site				
RSE Column Factor:	0.6	0.6	0.8	0.8	0.8	1.1	2.1	2.3	
<b>All Buildings</b> .....	4,806	67,876	5,490	7,876	2,609	2,174	272	435	6.08
<b>Building Floorspace (square feet)</b>									
1,001 to 5,000 .....	2,681	7,327	703	1,009	334	321	40	Q	8.67
5,001 to 10,000 .....	975	7,199	555	759	251	251	46	Q	8.49
10,001 to 25,000 .....	647	10,375	865	1,011	335	438	27	65	11.39
25,001 to 50,000 .....	280	10,069	794	1,049	347	324	55	Q	12.91
50,001 to 100,000 .....	116	8,062	642	930	308	255	30	50	12.84
100,001 to 200,000 .....	71	9,678	640	1,047	347	206	28	59	14.26
200,001 to 500,000 .....	26	7,889	711	1,089	361	215	26	109	16.50
Over 500,000 .....	9	7,278	581	980	325	165	Q	70	22.10
<b>Principal Building Activity</b>									
Education .....	301	8,470	637	708	235	291	62	49	11.03
Food Sales .....	130	757	137	340	113	24	Q	Q	21.80
Food Service .....	260	1,491	307	415	138	157	Q	Q	13.45
Health Care .....	63	1,763	403	416	138	189	21	55	17.82
Lodging .....	154	2,891	463	571	189	193	16	65	20.58
Mercantile and Service .....	1,272	12,402	892	1,342	444	381	55	Q	10.65
Office .....	749	12,319	1,247	2,124	704	388	47	109	11.78
Parking Garage .....	24	1,652	52	Q	Q	9	Q	Q	39.80
Public Assembly .....	278	4,556	310	522	173	100	15	23	17.15
Public Order and Safety .....	60	820	91	84	28	37	Q	Q	33.66
Religious Worship .....	366	3,747	109	95	32	65	12	Q	12.84
Warehouse and Storage .....	761	11,484	527	765	253	196	24	Q	15.02
Other .....	69	1,130	184	235	78	84	Q	Q	27.32
Vacant .....	319	4,396	131	141	47	61	Q	Q	20.94
<b>Year Constructed</b>									
1899 or Before .....	169	1,721	118	116	38	62	10	Q	20.29
1900 to 1919 .....	255	3,608	213	202	67	102	24	Q	17.40
1920 to 1945 .....	724	8,712	666	655	217	310	58	82	14.74
1946 to 1959 .....	880	10,421	800	1,002	332	355	60	54	13.22
1960 to 1969 .....	783	12,612	1,125	1,593	528	426	50	121	12.31
1970 to 1979 .....	982	14,014	1,261	1,898	629	528	49	55	10.20
1980 to 1989 .....	884	14,287	1,133	2,080	689	345	17	Q	11.39
1990 to 1992 .....	128	2,502	173	330	109	48	Q	Q	18.98
<b>Census Region and Division</b>									
Northeast .....	771	13,400	1,090	1,264	419	354	194	123	9.27
New England .....	186	3,265	299	308	102	75	90	32	23.53
Middle Atlantic .....	585	10,135	791	956	317	280	103	91	12.93
Midwest .....	1,202	17,280	1,578	1,876	622	747	26	183	11.06
East North Central .....	749	10,712	1,009	1,134	376	516	14	103	13.19
West North Central .....	453	6,568	568	742	246	231	Q	79	20.61
South .....	1,963	24,577	1,825	3,025	1,002	697	48	78	11.86
South Atlantic .....	755	10,586	775	1,388	460	240	40	35	16.99
East South Central .....	454	5,375	409	709	235	159	Q	Q	19.30
West South Central .....	754	8,616	641	927	307	299	Q	Q	22.16
West .....	870	12,619	998	1,710	566	376	Q	51	12.13
Mountain .....	297	3,645	347	559	185	137	Q	Q	20.43
Pacific .....	574	8,974	651	1,151	381	239	Q	27	14.95
<b>Climate Zone: 45-Year Average</b>									
Fewer than 2,000 CDD and --									
More than 7,000 HDD .....	399	5,623	477	585	194	189	46	49	18.81
5,500-7,000 HDD .....	1,134	18,024	1,641	1,873	621	746	96	179	11.32
4,000-5,499 HDD .....	1,077	16,162	1,275	1,800	596	447	111	121	14.26
Fewer than 4,000 HDD .....	1,101	15,251	1,178	1,994	661	469	Q	37	18.64
More than 2,000 CDD and --									
Fewer than 4,000 HDD .....	1,095	12,816	919	1,623	537	324	Q	49	17.75

See footnotes at end of table.

**Table 3.2. Total Energy Consumption by Major Fuel, 1992 (Continued)**

Building Characteristics	All Buildings		Total Energy Consumption (trillion Btu)						RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Total of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat	
				Primary	Site				
RSE Column Factor:	0.6	0.6	0.8	0.8	0.8	1.1	2.1	2.3	
<b>Energy Sources (more than one may apply)</b>									
Electricity .....	4,611	66,525	5,490	7,876	2,609	2,174	272	435	6.22
Natural Gas .....	2,657	44,994	4,264	5,341	1,769	2,174	108	212	7.58
Fuel Oil .....	560	13,215	1,440	1,981	656	410	272	102	12.54
District Heat .....	95	5,245	839	842	279	116	Q	435	20.68
District Chilled Water .....	28	1,914	292	357	118	45	Q	122	23.17
Propane .....	337	3,393	220	398	132	41	37	Q	20.18
Any Other .....	163	1,551	67	112	37	18	Q	Q	23.49
<b>Energy End Uses (more than one may apply)</b>									
Heated Buildings .....	4,178	61,996	5,364	7,544	2,499	2,159	272	435	6.10
Buildings with A/C .....	3,502	57,041	5,033	7,384	2,446	1,987	218	382	6.43
Buildings with Water Heating .....	3,502	58,479	5,259	7,453	2,469	2,118	252	421	6.27
Buildings with Cooking .....	734	23,065	2,382	3,510	1,163	942	109	169	8.31
Buildings with Manufacturing .....	121	3,174	356	356	118	157	30	Q	19.95
<b>Workers (main shift)</b>									
Less than 5 .....	2,718	17,944	799	1,164	385	331	56	26	10.84
5 to 9 .....	895	7,524	622	707	234	299	35	Q	10.64
10 to 19 .....	561	8,077	635	887	294	278	23	41	13.58
20 to 49 .....	405	10,556	1,016	1,275	422	474	53	67	12.58
50 to 99 .....	130	7,763	688	999	331	280	32	45	14.46
100 or More .....	96	16,011	1,731	2,844	942	513	74	202	10.55
<b>Weekly Operating Hours</b>									
39 or Fewer .....	1,039	8,246	278	244	81	151	36	Q	12.26
40 to 48 .....	1,278	14,998	1,011	1,457	483	388	68	72	10.96
49 to 60 .....	1,004	14,046	934	1,293	428	406	39	Q	9.74
61 to 84 .....	645	12,062	962	1,454	482	396	41	43	11.15
85 to 167 .....	478	8,467	839	1,356	449	312	38	40	13.00
Open Continuously .....	362	10,057	1,467	2,072	686	520	50	210	13.02
<b>Ownership and Occupancy</b>									
Nongovernment Owned .....	4,206	52,752	4,143	6,204	2,055	1,674	172	242	7.04
Owner Occupied .....	3,192	38,403	3,313	4,814	1,595	1,344	152	222	7.18
Single Establishment .....	2,864	29,992	2,751	3,847	1,274	1,167	116	193	8.49
Multiple Establishment .....	328	8,411	562	967	320	177	36	29	14.82
Nonowner Occupied .....	817	12,273	795	1,345	445	310	19	20	12.90
Single Establishment .....	495	5,565	408	673	223	170	6	Q	19.77
Multiple Establishment .....	322	6,708	387	671	222	140	13	Q	15.33
Vacant .....	197	2,077	36	45	15	20	Q	Q	32.58
Government Owned .....	599	15,124	1,347	1,672	554	500	100	193	10.09
<b>Predominant Exterior Wall Material</b>									
Masonry .....	3,115	48,585	4,016	5,520	1,828	1,654	225	309	6.27
Siding or Shingles .....	764	3,873	262	390	129	103	22	Q	10.66
Metal Panels .....	745	7,392	505	707	234	240	15	Q	18.66
Concrete Panels .....	87	4,961	408	669	222	127	Q	57	18.07
Window Glass .....	46	2,028	195	424	140	30	6	Q	26.63
Other .....	47	1,037	105	165	55	20	Q	Q	32.96
<b>Predominant Roof Material</b>									
Built-Up .....	1,642	30,257	2,593	3,900	1,292	997	105	200	8.29
Shingles (Not Wood) .....	1,381	10,570	734	951	315	329	50	40	11.76
Metal Surfacing .....	1,037	9,019	550	727	241	254	20	Q	13.77
Synthetic or Rubber .....	386	11,702	1,165	1,620	537	445	75	109	11.05
Other .....	359	6,328	448	677	224	150	23	50	16.07

See footnotes at end of table.

**Table 3.2. Total Energy Consumption by Major Fuel, 1992 (Continued)**

Building Characteristics	All Buildings		Total Energy Consumption (trillion Btu)						RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Total of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat	
				Primary	Site				
RSE Column Factor:	0.6	0.6	0.8	0.8	0.8	1.1	2.1	2.3	
<b>Floors</b>									
One .....	3,007	25,424	1,751	2,621	868	753	69	Q	8.96
Two .....	1,154	18,025	1,302	1,947	645	541	60	Q	7.81
Three .....	446	9,877	887	1,125	373	379	69	67	12.35
Four to Nine .....	186	10,377	1,112	1,470	487	399	54	171	14.05
Ten or More .....	13	4,173	439	713	236	102	Q	80	19.28
<b>Percent Window Glass</b>									
25 or Less .....	4,193	51,356	3,904	5,500	1,822	1,621	189	272	7.05
26 to 50 .....	490	11,815	1,114	1,544	511	435	62	106	8.81
51 to 75 .....	94	3,206	312	505	167	94	14	Q	17.04
76 to 100 .....	29	1,499	161	326	108	25	Q	Q	33.80
<b>Building Shape</b>									
Square .....	280	3,654	280	430	143	94	14	29	14.09
Rectangle .....	3,659	39,233	3,087	4,430	1,467	1,225	152	243	7.53
Right Angle .....	333	6,071	399	556	184	165	27	22	12.91
Other .....	533	18,919	1,724	2,459	815	690	79	140	10.09
<b>Energy-Related Space Functions (more than one may apply)</b>									
Commercial Food Preparation .....	735	22,166	2,339	3,381	1,120	942	109	169	8.11
Computer Room .....	223	14,199	1,539	2,489	824	486	68	161	12.19
Rooms with Special Ventilation .....	236	8,042	1,034	1,360	451	407	49	128	12.39
Activities with Large Amounts of Hot Water .....	203	6,862	964	1,108	367	472	47	78	13.28
<b>Space-Heating Energy Sources (more than one may apply)</b>									
Electricity .....	1,513	25,636	1,935	3,631	1,203	582	50	101	9.62
Natural Gas .....	2,397	38,467	3,453	4,310	1,428	1,938	45	42	8.74
Fuel Oil .....	478	7,323	793	815	270	220	262	Q	13.09
District Heat .....	91	5,130	794	820	272	110	Q	404	15.45
Propane .....	255	1,568	59	147	49	Q	8	Q	23.99
Wood .....	102	504	16	26	9	5	Q	Q	29.52
Any Other .....	39	661	17	30	10	Q	Q	Q	47.78
<b>Cooling Energy Sources (more than one may apply)</b>									
Electricity .....	3,404	54,628	4,722	7,022	2,326	1,887	215	294	6.74
Natural Gas .....	106	1,906	289	289	96	186	Q	Q	23.87
District Chilled Water .....	28	1,914	292	357	118	45	Q	122	23.17
<b>Water-Heating Energy Sources (more than one may apply)</b>									
Electricity .....	1,696	25,482	1,799	3,317	1,099	533	85	82	10.14
Natural Gas .....	1,643	29,950	3,007	3,711	1,229	1,644	50	84	8.83
Fuel Oil .....	125	2,469	252	223	74	33	138	Q	20.97
District Heat .....	36	3,292	543	577	191	49	3	299	19.33
Propane .....	80	659	31	70	23	Q	Q	Q	36.22
<b>Cooking Energy Sources (more than one may apply)</b>									
Electricity .....	356	12,183	1,200	2,005	664	384	57	96	9.83
Natural Gas .....	430	15,204	1,697	2,217	734	816	46	100	9.65
Propane .....	70	1,039	75	135	45	Q	24	Q	26.43
<b>Manufacturing Energy Sources (more than one may apply)</b>									
Electricity .....	95	2,579	290	307	102	121	21	Q	21.66
Natural Gas .....	22	799	127	83	27	78	Q	Q	39.07
Other .....	15	343	46	42	14	Q	Q	Q	46.14

See footnotes at end of table.



**Table 3.2. Total Energy Consumption by Major Fuel, 1992 (Continued)**

Building Characteristics	All Buildings		Total Energy Consumption (trillion Btu)						RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Total of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat	
				Primary	Site				
RSE Column Factor:	0.6	0.6	0.8	0.8	0.8	1.1	2.1	2.3	
<b>Percent of Floorspace Heated</b>									
Not Heated .....	628	5,880	126	331	110	Q	Q	Q	27.84
1 to 50 .....	713	11,525	467	769	255	175	27	Q	15.57
51 to 99 .....	618	10,211	885	1,306	433	362	43	46	12.14
100 .....	2,846	40,260	4,013	5,469	1,812	1,622	202	378	7.17
<b>Percent of Floorspace Cooled</b>									
Not Cooled .....	1,304	10,835	457	492	163	187	54	53	13.46
1 to 50 .....	1,176	21,715	1,348	1,439	477	611	139	122	8.92
51 to 99 .....	658	13,872	1,432	2,259	748	532	47	104	10.21
100 .....	1,668	21,454	2,253	3,685	1,221	844	33	156	8.96
<b>Heating Equipment (more than one may apply)</b>									
Heat Pumps .....	449	8,269	704	1,312	435	213	19	37	13.98
Furnaces .....	1,692	16,909	1,320	1,597	529	724	59	Q	9.49
Individual Space Heaters .....	1,464	22,380	1,723	2,550	845	708	74	97	9.43
District Heat .....	93	5,225	829	843	279	135	Q	407	16.00
Boilers .....	624	20,664	1,978	2,504	829	936	204	Q	8.36
Packaged Heating Units .....	870	16,000	1,357	2,203	730	583	18	26	10.74
Other .....	42	903	171	249	83	Q	Q	Q	31.72
<b>Heating Distribution Equipment (more than one may apply)</b>									
Radiators or Baseboards .....	473	13,263	1,379	1,316	436	574	158	211	9.43
Ducts for Heating .....	2,955	45,422	4,073	6,015	1,992	1,685	142	254	6.76
VAV System Used .....	210	11,528	1,278	2,059	682	429	32	135	12.98
Individual Space Heaters .....	1,464	22,380	1,723	2,550	845	708	74	97	9.43
Fan Coil Units or Other .....	276	8,457	1,033	1,174	389	457	58	130	12.33
<b>Cooling Equipment (more than one may apply)</b>									
Residential-Type Central A/C .....	816	9,021	898	977	324	493	41	Q	13.12
Heat Pumps .....	454	8,406	753	1,316	436	234	23	Q	13.29
Individual A/C .....	1,023	17,979	1,454	1,744	578	607	133	136	9.95
District Chilled Water .....	28	2,066	309	357	118	61	Q	123	23.23
Central Chillers .....	142	12,991	1,482	2,310	765	538	56	122	12.59
Packaged A/C Units .....	1,459	27,830	2,514	3,850	1,275	999	97	142	8.75
Swamp Coolers .....	179	2,085	228	326	108	107	Q	Q	28.58
Other .....	8	268	17	37	12	Q	Q	Q	62.13
<b>Cooling Distribution Equipment (more than one may apply)</b>									
Ducts for Cooling .....	2,733	47,755	4,337	6,595	2,185	1,694	145	313	6.90
VAV System Used .....	221	12,430	1,391	2,332	772	433	38	148	12.36
Individual A/C .....	1,023	17,979	1,454	1,744	578	607	133	136	9.95
Fan Coil Units or Other .....	166	6,611	817	1,028	341	355	36	86	17.39
<b>Water-Heating Equipment (more than one may apply)</b>									
Centralized System .....	1,994	31,599	3,185	4,185	1,386	1,309	185	305	7.98
Distributed System .....	1,557	29,502	2,306	3,674	1,217	890	72	127	10.16
<b>Energy Conservation Features (more than one may apply)</b>									
Any Conservation Features .....	4,357	64,403	5,410	7,777	2,576	2,129	271	434	6.14
Building Shell .....	4,223	62,056	5,284	7,574	2,509	2,091	260	424	6.19
HVAC .....	2,604	50,281	4,699	6,762	2,240	1,804	240	415	6.53
Lighting .....	1,178	29,453	2,799	4,302	1,425	1,005	121	249	8.25
Other .....	264	5,952	552	744	247	208	48	49	11.77

See footnotes at end of table.

**Table 3.2. Total Energy Consumption by Major Fuel, 1992 (Continued)**

Building Characteristics	All Buildings		Total Energy Consumption (trillion Btu)						RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Total of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat	
				Primary	Site				
RSE Column Factor:	0.6	0.6	0.8	0.8	0.8	1.1	2.1	2.3	
<b>Energy Management Practices (more than one may apply)</b>									
Energy Management and Control System .....	236	14,320	1,571	2,478	821	497	58	195	12.16
Demand-Side Management <sup>1</sup> Participation .....	315	11,310	1,327	1,708	566	528	70	163	11.47
Energy Audit .....	521	14,779	1,479	2,133	706	550	77	146	10.07
Building Energy Manager .....	49	2,311	297	392	130	116	Q	46	23.78

<sup>1</sup> 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. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • Site electricity is the amount of electricity delivered to commercial buildings. Primary electricity, which is not included in the "Total of Major Fuels" category, is site electricity plus the conversion losses in the electric generation process at the utility plant. • 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.

**Table 3.3. Total Energy Expenditures by Major Fuel, 1992**

Building Characteristics	All Buildings		Total Energy Expenditures (million dollars)					RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Total of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat	
	0.6	0.7	0.7	0.7	1.0	2.0	2.2	
<b>All Buildings</b> .....	4,806	67,876	71,821	57,619	9,901	1,400	2,901	6.10
<b>Building Floorspace (square feet)</b>								
1,001 to 5,000 .....	2,681	7,327	10,559	8,536	1,716	252	Q	8.10
5,001 to 10,000 .....	975	7,199	7,995	6,336	1,342	264	Q	8.38
10,001 to 25,000 .....	647	10,375	10,126	7,758	1,882	150	336	10.72
25,001 to 50,000 .....	280	10,069	9,864	7,619	1,559	271	Q	12.85
50,001 to 100,000 .....	116	8,062	8,483	6,806	1,184	140	353	13.63
100,001 to 200,000 .....	71	9,678	8,413	6,935	893	134	451	13.69
200,001 to 500,000 .....	26	7,889	8,457	6,847	742	113	755	17.27
Over 500,000 .....	9	7,278	7,924	6,783	582	76	483	22.90
<b>Principal Building Activity</b>								
Education .....	301	8,470	7,389	5,526	1,271	277	315	11.61
Food Sales .....	130	757	2,389	2,250	134	Q	Q	23.36
Food Service .....	260	1,491	4,280	3,359	818	Q	Q	13.08
Health Care .....	63	1,763	3,733	2,640	662	86	346	17.63
Lodging .....	154	2,891	5,459	4,030	929	79	421	20.55
Mercantile and Service .....	1,272	12,402	12,907	10,583	1,899	318	Q	10.27
Office .....	749	12,319	18,102	15,511	1,618	245	728	11.20
Parking Garage .....	24	1,652	811	743	43	Q	Q	44.73
Public Assembly .....	278	4,556	4,163	3,430	490	80	164	17.45
Public Order and Safety .....	60	820	998	619	173	Q	Q	30.11
Religious Worship .....	366	3,747	1,299	890	332	72	Q	13.67
Warehouse and Storage .....	761	11,484	6,750	5,386	939	139	Q	14.17
Other .....	69	1,130	1,954	1,479	302	Q	Q	26.09
Vacant .....	319	4,396	1,585	1,172	290	Q	Q	20.02
<b>Year Constructed</b>								
1899 or Before .....	169	1,721	1,447	1,029	281	60	Q	20.41
1900 to 1919 .....	255	3,608	2,516	1,711	516	126	Q	17.55
1920 to 1945 .....	724	8,712	7,534	5,263	1,442	283	546	13.72
1946 to 1959 .....	880	10,421	9,797	7,477	1,665	310	346	12.36
1960 to 1969 .....	783	12,612	14,532	11,617	1,903	262	750	11.93
1970 to 1979 .....	982	14,014	16,459	13,659	2,187	251	363	10.35
1980 to 1989 .....	884	14,287	16,834	14,510	1,668	90	566	12.10
1990 to 1992 .....	128	2,502	2,702	2,354	239	Q	Q	20.34
<b>Census Region and Division</b>								
Northeast .....	771	13,400	16,226	12,250	2,014	989	973	9.66
New England .....	186	3,265	4,063	2,935	476	433	219	22.91
Middle Atlantic .....	585	10,135	12,163	9,315	1,538	556	754	13.25
Midwest .....	1,202	17,280	16,957	12,745	3,011	132	1,069	11.41
East North Central .....	749	10,712	11,040	8,308	2,076	76	580	13.28
West North Central .....	453	6,568	5,916	4,437	935	Q	Q	21.57
South .....	1,963	24,577	22,843	19,097	2,998	257	492	11.49
South Atlantic .....	755	10,586	10,893	9,252	1,147	213	282	16.25
East South Central .....	454	5,375	4,728	3,851	787	Q	Q	20.55
West South Central .....	754	8,616	7,222	5,994	1,064	Q	Q	22.02
West .....	870	12,619	15,795	13,527	1,878	Q	368	13.50
Mountain .....	297	3,645	4,372	3,616	559	Q	Q	24.17
Pacific .....	574	8,974	11,424	9,911	1,319	Q	181	15.57
<b>Climate Zone: 45-Year Average</b>								
Fewer than 2,000 CDD and -- More than 7,000 HDD .....	399	5,623	4,806	3,553	790	233	229	19.12
5,500-7,000 HDD .....	1,134	18,024	19,519	14,625	3,264	479	1,150	11.54
4,000-5,499 HDD .....	1,077	16,162	16,998	13,278	2,158	579	984	14.23
Fewer than 4,000 HDD .....	1,101	15,251	17,400	14,688	2,386	Q	270	18.09
More than 2,000 CDD and -- Fewer than 4,000 HDD .....	1,095	12,816	13,098	11,474	1,304	53	267	18.22

See footnotes at end of table.

**Table 3.3. Total Energy Expenditures by Major Fuel, 1992 (Continued)**

Building Characteristics	All Buildings		Total Energy Expenditures (million dollars)					RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Total of Major Fuels	Elec- tricity	Natural Gas	Fuel Oil	District Heat	
	0.6	0.7	0.7	0.7	1.0	2.0	2.2	
<b>Energy Sources (more than one may apply)</b>								
Electricity .....	4,611	66,525	71,817	57,619	9,900	1,398	2,901	6.22
Natural Gas .....	2,657	44,994	51,785	39,769	9,901	507	1,608	7.77
Fuel Oil .....	560	13,215	17,748	14,003	1,623	1,400	723	12.07
District Heat .....	95	5,245	9,106	5,746	429	Q	2,901	21.33
District Chilled Water .....	28	1,914	3,167	2,170	178	Q	789	25.45
Propane .....	337	3,393	3,561	3,085	201	187	Q	20.30
Any Other .....	163	1,551	992	831	100	Q	Q	23.86
<b>Energy End Uses (more than one may apply)</b>								
Heated Buildings .....	4,178	61,996	69,379	55,265	9,815	1,397	2,901	6.11
Buildings with A/C .....	3,502	57,041	66,430	53,825	8,969	1,103	2,533	6.44
Buildings with Water Heating .....	3,502	58,479	67,927	54,252	9,582	1,274	2,819	6.31
Buildings with Cooking .....	734	23,065	30,816	24,939	4,103	514	1,260	8.22
Buildings with Manufacturing .....	121	3,174	3,736	2,650	678	136	Q	18.77
<b>Workers (main shift)</b>								
Less than 5 .....	2,718	17,944	11,530	9,236	1,778	335	Q	10.41
5 to 9 .....	895	7,524	7,425	5,753	1,244	199	Q	8.30
10 to 19 .....	561	8,077	8,608	6,736	1,413	131	327	12.78
20 to 49 .....	405	10,556	12,382	9,374	2,302	263	443	12.65
50 to 99 .....	130	7,763	8,554	6,953	1,206	158	237	14.47
100 or More .....	96	16,011	23,323	19,566	1,958	315	1,484	10.58
<b>Weekly Operating Hours</b>								
39 or Fewer .....	1,039	8,246	3,233	2,223	731	202	Q	11.94
40 to 48 .....	1,278	14,998	13,455	10,823	1,869	352	412	9.91
49 to 60 .....	1,004	14,046	12,678	10,197	1,888	218	376	9.74
61 to 84 .....	645	12,062	13,532	11,389	1,666	218	260	10.17
85 to 167 .....	478	8,467	12,026	10,031	1,521	198	277	14.13
Open Continuously .....	362	10,057	16,896	12,957	2,226	213	1,500	13.70
<b>Ownership and Occupancy</b>								
Nongovernment Owned .....	4,206	52,752	56,302	46,002	7,808	936	1,556	6.91
Owner Occupied .....	3,192	38,403	43,713	35,438	6,091	824	1,360	7.05
Single Establishment .....	2,864	29,992	34,881	27,862	5,236	657	1,126	8.45
Multiple Establishment .....	328	8,411	8,832	7,576	855	167	234	14.79
Nonowner Occupied .....	817	12,273	12,089	10,173	1,618	105	193	12.92
Single Establishment .....	495	5,565	5,623	4,627	895	36	Q	18.85
Multiple Establishment .....	322	6,708	6,465	5,546	723	70	Q	15.63
Vacant .....	197	2,077	500	392	99	Q	Q	31.76
Government Owned .....	599	15,124	15,519	11,617	2,094	465	1,345	9.81
<b>Predominant Exterior Wall Material</b>								
Masonry .....	3,115	48,585	51,397	40,496	7,734	1,128	2,038	6.39
Siding or Shingles .....	764	3,873	4,006	3,260	561	131	Q	11.40
Metal Panels .....	745	7,392	5,861	4,786	851	85	Q	15.75
Concrete Panels .....	87	4,961	5,841	4,868	528	Q	436	18.18
Window Glass .....	46	2,028	3,347	3,066	133	33	115	25.62
Other .....	47	1,037	1,370	1,143	93	Q	Q	30.23
<b>Predominant Roof Material</b>								
Built-Up .....	1,642	30,257	34,687	28,113	4,610	542	1,422	8.19
Shingles (Not Wood) .....	1,381	10,570	9,813	7,649	1,682	282	199	11.02
Metal Surfacing .....	1,037	9,019	6,427	5,194	948	112	Q	11.68
Synthetic or Rubber .....	386	11,702	14,644	11,633	1,908	364	739	11.40
Other .....	359	6,328	6,251	5,030	753	100	367	15.26

See footnotes at end of table.

**Table 3.3. Total Energy Expenditures by Major Fuel, 1992 (Continued)**

Building Characteristics	All Buildings		Total Energy Expenditures (million dollars)					RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Total of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat	
	0.6	0.7	0.7	0.7	1.0	2.0	2.2	
<b>Floors</b>								
One .....	3,007	25,424	24,083	19,785	3,501	394	Q	8.42
Two .....	1,154	18,025	18,040	14,763	2,686	319	Q	7.82
Three .....	446	9,877	10,674	8,234	1,662	351	426	11.84
Four to Nine .....	186	10,377	12,623	9,537	1,676	246	1,164	14.39
Ten or More .....	13	4,173	6,402	5,299	375	Q	637	18.83
<b>Percent Window Glass</b>								
25 or Less .....	4,193	51,356	49,909	39,804	7,277	1,015	1,813	7.10
26 to 50 .....	490	11,815	14,726	11,654	2,077	283	712	9.13
51 to 75 .....	94	3,206	5,483	3,829	441	67	243	16.97
76 to 100 .....	29	1,499	2,606	2,332	106	Q	Q	34.51
<b>Building Shape</b>								
Square .....	280	3,654	3,842	3,165	441	75	160	13.72
Rectangle .....	3,659	39,233	41,205	33,121	5,688	816	1,579	7.34
Right Angle .....	333	6,071	5,483	4,377	823	140	144	12.70
Other .....	533	18,919	21,292	16,955	2,949	369	1,018	10.41
<b>Energy-Related Space Functions (more than one may apply)</b>								
Commercial Food Preparation .....	735	22,166	30,221	24,343	4,104	514	1,260	8.00
Computer Room .....	223	14,199	20,434	17,102	2,043	302	987	11.92
Rooms with Special Ventilation .....	236	8,042	11,678	9,076	1,562	210	830	12.74
Activities with Large Amounts of Hot Water .....	203	6,862	10,083	7,390	1,966	221	507	13.00
<b>Space-Heating Energy Sources (more than one may apply)</b>								
Electricity .....	1,513	25,636	29,489	25,856	2,720	254	659	9.40
Natural Gas .....	2,397	38,467	41,084	31,839	8,756	228	261	8.85
Fuel Oil .....	478	7,323	8,663	6,218	844	1,336	Q	12.85
District Heat .....	91	5,130	8,820	5,615	405	Q	2,776	16.55
Propane .....	255	1,568	1,300	1,249	Q	40	Q	23.72
Wood .....	102	504	263	214	30	Q	Q	28.60
Any Other .....	39	661	232	195	Q	Q	Q	50.01
<b>Cooling Energy Sources (more than one may apply)</b>								
Electricity .....	3,404	54,628	63,077	51,474	8,582	1,087	1,934	6.66
Natural Gas .....	106	1,906	3,002	2,173	782	Q	Q	23.86
District Chilled Water .....	28	1,914	3,167	2,170	178	Q	789	25.45
<b>Water-Heating Energy Sources (more than one may apply)</b>								
Electricity .....	1,696	25,482	26,508	23,303	2,324	441	441	9.48
Natural Gas .....	1,643	29,950	35,962	27,430	7,620	232	679	9.26
Fuel Oil .....	125	2,469	2,905	2,004	163	683	Q	21.05
District Heat .....	36	3,292	5,995	3,912	158	11	1,913	19.58
Propane .....	80	659	717	674	Q	Q	Q	36.23
<b>Cooking Energy Sources (more than one may apply)</b>								
Electricity .....	356	12,183	16,429	13,854	1,626	271	678	10.77
Natural Gas .....	430	15,204	20,650	16,095	3,562	217	776	9.25
Propane .....	70	1,039	1,332	1,171	Q	119	Q	27.01
<b>Manufacturing Energy Sources (more than one may apply)</b>								
Electricity .....	95	2,579	3,080	2,251	495	96	Q	20.09
Natural Gas .....	22	799	960	553	316	Q	Q	35.38
Other .....	15	343	477	286	Q	Q	Q	44.81

See footnotes at end of table.

**Table 3.3. Total Energy Expenditures by Major Fuel, 1992 (Continued)**

Building Characteristics	All Buildings		Total Energy Expenditures (million dollars)					RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Total of Major Fuels	Elec- tricity	Natural Gas	Fuel Oil	District Heat	
	0.6	0.7	0.7	0.7	1.0	2.0	2.2	
<b>Percent of Floorspace Heated</b>								
Not Heated .....	628	5,880	2,442	2,353	Q	Q	Q	22.86
1 to 50 .....	713	11,525	7,115	6,038	871	142	Q	14.16
51 to 99 .....	618	10,211	12,165	10,034	1,578	214	339	11.50
100 .....	2,846	40,260	50,099	39,192	7,367	1,041	2,498	6.98
<b>Percent of Floorspace Cooled</b>								
Not Cooled .....	1,304	10,835	5,391	3,794	932	297	368	12.02
1 to 50 .....	1,176	21,715	15,648	11,296	2,879	696	777	8.63
51 to 99 .....	658	13,872	19,454	16,302	2,216	228	708	10.24
100 .....	1,668	21,454	31,328	26,227	3,874	178	1,048	8.94
<b>Heating Equipment (more than one may apply)</b>								
Heat Pumps .....	449	8,269	10,355	8,938	1,006	92	318	14.54
Furnaces .....	1,692	16,909	15,953	12,330	3,209	351	Q	8.74
Individual Space Heaters .....	1,464	22,380	22,391	18,096	3,293	391	610	9.56
District Heat .....	93	5,225	9,008	5,725	474	Q	2,785	16.55
Boilers .....	624	20,664	22,741	17,612	4,030	1,018	Q	8.41
Packaged Heating Units .....	870	16,000	20,026	16,901	2,815	86	224	11.77
Other .....	42	903	2,049	1,601	Q	Q	Q	29.95
<b>Heating Distribution Equipment (more than one may apply)</b>								
Radiators or Baseboards .....	473	13,263	14,793	10,088	2,434	767	1,503	9.04
Ducts for Heating .....	2,955	45,422	53,420	43,424	7,555	742	1,700	6.92
VAV System Used .....	210	11,528	16,354	13,610	1,706	144	894	13.21
Individual Space Heaters .....	1,464	22,380	22,391	18,096	3,293	391	610	9.56
Fan Coil Units or Other .....	276	8,457	11,132	7,931	1,925	296	980	12.66
<b>Cooling Equipment (more than one may apply)</b>								
Residential-Type Central A/C .....	816	9,021	9,791	7,324	1,972	201	Q	12.04
Heat Pumps .....	454	8,406	10,729	9,139	1,093	109	388	13.93
Individual A/C .....	1,023	17,979	17,702	13,205	2,830	652	1,015	9.48
District Chilled Water .....	28	2,066	3,220	2,173	229	Q	789	25.60
Central Chillers .....	142	12,991	18,581	15,291	2,141	246	902	12.81
Packaged A/C Units .....	1,459	27,830	34,931	28,748	4,769	449	965	8.66
Swamp Coolers .....	179	2,085	2,843	2,292	449	Q	Q	27.85
Other .....	8	268	249	220	Q	Q	Q	58.31
<b>Cooling Distribution Equipment (more than one may apply)</b>								
Ducts for Cooling .....	2,733	47,755	57,807	47,542	7,526	705	2,034	6.89
VAV System Used .....	221	12,430	18,366	15,519	1,718	154	974	12.12
Individual A/C .....	1,023	17,979	17,702	13,205	2,830	652	1,015	9.48
Fan Coil Units or Other .....	166	6,611	8,837	6,696	1,410	175	555	17.91
<b>Water-Heating Equipment (more than one may apply)</b>								
Centralized System .....	1,994	31,599	39,145	30,437	5,716	941	2,051	8.27
Distributed System .....	1,557	29,502	31,733	26,294	4,225	360	854	9.73
<b>Energy Conservation Features (more than one may apply)</b>								
Any Conservation Features .....	4,357	64,403	70,720	56,750	9,688	1,391	2,892	6.20
Building Shell .....	4,223	62,056	68,828	55,190	9,488	1,332	2,819	6.28
HVAC .....	2,604	50,281	60,920	48,918	8,002	1,213	2,787	6.67
Lighting .....	1,178	29,453	37,614	30,760	4,537	610	1,707	8.43
Other .....	264	5,952	6,921	5,436	903	222	359	12.31

See footnotes at end of table.

**Table 3.3. Total Energy Expenditures by Major Fuel, 1992 (Continued)**

Building Characteristics	All Buildings		Total Energy Expenditures (million dollars)					RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Total of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat	
	0.6	0.7	0.7	0.7	1.0	2.0	2.2	
<b>Energy Management Practices (more than one may apply)</b>								
Energy Management and Control System .....	236	14,320	19,830	16,531	1,832	262	1,205	12.10
Demand-Side Management <sup>1</sup> Participation .....	315	11,310	15,493	12,252	1,931	325	987	10.73
Energy Audit .....	521	14,779	19,319	15,598	2,359	381	981	10.07
Building Energy Manager .....	49	2,311	3,156	2,457	452	Q	226	23.58

<sup>1</sup> 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. • 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.

**Table 3.4. Consumption for Sum of Major Fuels, 1992**

Building Characteristics	All Buildings			Sum of Major Fuel Consumption				RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)	
	0.8	0.9	0.8	1.1	1.2	1.0	1.3	
RSE Column Factor:								
<b>All Buildings</b> .....	4,806	67,876	14.1	5,490	1,142	80.9	77.1	4.42
<b>Building Floorspace (square feet)</b>								
1,001 to 5,000 .....	2,681	7,327	2.7	703	262	95.9	72.4	4.86
5,001 to 10,000 .....	975	7,199	7.4	555	570	77.1	72.6	4.12
10,001 to 25,000 .....	647	10,375	16.0	865	1,336	83.4	83.5	6.12
25,001 to 50,000 .....	280	10,069	35.9	794	2,830	78.8	91.5	7.57
50,001 to 100,000 .....	116	8,062	69.8	642	5,558	79.7	82.0	5.81
100,001 to 200,000 .....	71	9,678	137.0	640	9,065	66.2	77.3	7.23
200,001 to 500,000 .....	26	7,889	302.8	711	27,275	90.1	94.2	8.31
Over 500,000 .....	9	7,278	770.5	581	61,471	79.8	Q	18.08
<b>Principal Building Activity</b>								
Education .....	301	8,470	28.2	637	2,118	75.2	92.7	7.22
Food Sales .....	130	757	5.8	137	1,053	181.5	163.1	13.34
Food Service .....	260	1,491	5.7	307	1,183	206.1	136.9	9.35
Health Care .....	63	1,763	27.9	403	6,365	228.5	119.0	13.82
Lodging .....	154	2,891	18.8	463	3,007	160.1	228.8	14.19
Mercantile and Service .....	1,272	12,402	9.7	892	701	71.9	55.8	9.29
Office .....	749	12,319	16.4	1,247	1,665	101.2	45.9	8.11
Parking Garage .....	24	1,652	69.9	52	2,186	31.3	239.7	32.81
Public Assembly .....	278	4,556	16.4	310	1,115	68.0	112.6	16.25
Public Order and Safety .....	60	820	13.7	91	1,512	110.6	113.1	22.38
Religious Worship .....	366	3,747	10.2	109	297	29.0	47.4	10.82
Warehouse and Storage .....	761	11,484	15.1	527	692	45.9	118.4	10.80
Other .....	69	1,130	16.4	184	2,676	163.2	149.7	20.30
Vacant .....	319	4,396	13.8	131	412	29.9	134.0	16.57
<b>Year Constructed</b>								
1899 or Before .....	169	1,721	10.2	118	699	68.6	77.2	12.17
1900 to 1919 .....	255	3,608	14.1	213	836	59.1	71.0	12.74
1920 to 1945 .....	724	8,712	12.0	666	920	76.5	101.0	10.39
1946 to 1959 .....	880	10,421	11.8	800	910	76.8	87.8	9.45
1960 to 1969 .....	783	12,612	16.1	1,125	1,436	89.2	62.9	8.99
1970 to 1979 .....	982	14,014	14.3	1,261	1,284	90.0	87.6	7.05
1980 to 1989 .....	884	14,287	16.2	1,133	1,282	79.3	70.9	8.98
1990 to 1992 .....	128	2,502	19.6	173	1,355	69.3	63.5	12.65
<b>Census Region and Division</b>								
Northeast .....	771	13,400	17.4	1,090	1,414	81.3	58.7	9.45
New England .....	186	3,265	17.6	299	1,605	91.5	78.1	17.38
Middle Atlantic .....	585	10,135	17.3	791	1,353	78.0	53.6	13.54
Midwest .....	1,202	17,280	14.4	1,578	1,313	91.3	106.1	6.33
East North Central .....	749	10,712	14.3	1,009	1,347	94.2	106.5	7.44
West North Central .....	453	6,568	14.5	568	1,255	86.5	105.5	13.85
South .....	1,963	24,577	12.5	1,825	930	74.3	78.6	8.11
South Atlantic .....	755	10,586	14.0	775	1,026	73.2	70.9	12.21
East South Central .....	454	5,375	11.8	409	900	76.0	79.9	11.94
West South Central .....	754	8,616	11.4	641	851	74.4	89.4	17.88
West .....	870	12,619	14.5	998	1,147	79.1	68.5	9.66
Mountain .....	297	3,645	12.3	347	1,171	95.3	80.9	18.60
Pacific .....	574	8,974	15.6	651	1,134	72.5	63.3	10.95
<b>Climate Zone: 45-Year Average</b>								
Fewer than 2,000 CDD and --								
More than 7,000 HDD .....	399	5,623	14.1	477	1,196	84.8	99.0	11.77
5,500-7,000 HDD .....	1,134	18,024	15.9	1,641	1,448	91.1	93.8	8.01
4,000-5,499 HDD .....	1,077	16,162	15.0	1,275	1,184	78.9	62.1	13.79
Fewer than 4,000 HDD .....	1,101	15,251	13.8	1,178	1,070	77.2	70.8	11.66
More than 2,000 CDD and --								
Fewer than 4,000 HDD .....	1,095	12,816	11.7	919	840	71.7	78.1	12.69

See footnotes at end of table.



**Table 3.4. Consumption for Sum of Major Fuels, 1992 (Continued)**

Building Characteristics	All Buildings			Sum of Major Fuel Consumption				RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)	
	0.8	0.9	0.8	1.1	1.2	1.0	1.3	
<b>Energy Sources (more than one may apply)</b>								
Electricity .....	4,611	66,525	14.4	5,490	1,190	82.5	77.1	4.00
Natural Gas .....	2,657	44,994	16.9	4,264	1,605	94.8	83.3	4.87
Fuel Oil .....	560	13,215	23.6	1,440	2,574	109.0	79.7	9.22
District Heat .....	95	5,245	55.4	839	8,872	160.0	117.5	14.15
District Chilled Water .....	28	1,914	68.0	292	10,369	152.6	107.8	17.94
Propane .....	337	3,393	10.1	220	653	64.9	76.3	13.85
Any Other .....	163	1,551	9.5	67	411	43.3	50.9	15.58
<b>Energy End Uses (more than one may apply)</b>								
Heated Buildings .....	4,178	61,996	14.8	5,364	1,284	86.5	77.1	4.50
Buildings with A/C .....	3,502	57,041	16.3	5,033	1,437	88.2	75.2	4.60
Buildings with Water Heating .....	3,502	58,479	16.7	5,259	1,502	89.9	78.2	4.71
Buildings with Cooking .....	734	23,065	31.4	2,382	3,245	103.3	77.0	7.43
Buildings with Manufacturing .....	121	3,174	26.3	356	2,951	112.1	140.1	16.21
<b>Workers (main shift)</b>								
Less than 5 .....	2,718	17,944	6.6	799	294	44.5	168.7	7.95
5 to 9 .....	895	7,524	8.4	622	695	82.7	108.1	8.91
10 to 19 .....	561	8,077	14.4	635	1,130	78.6	88.8	8.70
20 to 49 .....	405	10,556	26.1	1,016	2,510	96.2	86.2	7.88
50 to 99 .....	130	7,763	59.7	688	5,288	88.6	82.1	9.46
100 or More .....	96	16,011	167.1	1,731	18,066	108.1	51.8	7.78
<b>Weekly Operating Hours</b>								
39 or Fewer .....	1,039	8,246	7.9	278	267	33.7	69.6	8.58
40 to 48 .....	1,278	14,998	11.7	1,011	791	67.4	57.8	6.46
49 to 60 .....	1,004	14,046	14.0	934	931	66.5	60.4	7.13
61 to 84 .....	645	12,062	18.7	962	1,492	79.7	75.9	7.45
85 to 167 .....	478	8,467	17.7	839	1,754	99.0	Q	9.01
Open Continuously .....	362	10,057	27.8	1,467	4,053	145.8	160.7	11.58
<b>Ownership and Occupancy</b>								
Nongovernment Owned .....	4,206	52,752	12.5	4,143	985	78.5	79.2	4.63
Owner Occupied .....	3,192	38,403	12.0	3,313	1,038	86.3	84.2	4.45
Single Establishment .....	2,864	29,992	10.5	2,751	960	91.7	98.9	5.19
Multiple Establishment .....	328	8,411	25.6	562	1,713	66.8	48.9	8.43
Nonowner Occupied .....	817	12,273	15.0	795	973	64.7	62.0	10.39
Single Establishment .....	495	5,565	11.2	408	824	73.2	80.5	18.55
Multiple Establishment .....	322	6,708	20.8	387	1,201	57.7	50.0	9.85
Vacant .....	197	2,077	10.5	36	183	17.3	210.8	22.16
Government Owned .....	599	15,124	25.2	1,347	2,247	89.1	71.2	8.72
<b>Predominant Exterior Wall Material</b>								
Masonry .....	3,115	48,585	15.6	4,016	1,289	82.7	88.4	4.60
Siding or Shingles .....	764	3,873	5.1	262	343	67.6	60.9	7.46
Metal Panels .....	745	7,392	9.9	505	678	68.3	105.5	12.69
Concrete Panels .....	87	4,961	56.7	408	4,658	82.2	Q	14.08
Window Glass .....	46	2,028	43.6	195	4,191	96.1	45.3	19.34
Other .....	47	1,037	22.1	105	2,227	101.0	50.7	28.47
<b>Predominant Roof Material</b>								
Built-Up .....	1,642	30,257	18.4	2,593	1,579	85.7	82.4	6.16
Shingles (Not Wood) .....	1,381	10,570	7.7	734	531	69.4	76.2	7.04
Metal Surfacing .....	1,037	9,019	8.7	550	530	61.0	84.1	10.88
Synthetic or Rubber .....	386	11,702	30.3	1,165	3,021	99.6	64.3	9.48
Other .....	359	6,328	17.6	448	1,248	70.8	82.1	11.16

See footnotes at end of table.

**Table 3.4. Consumption for Sum of Major Fuels, 1992 (Continued)**

Building Characteristics	All Buildings			Sum of Major Fuel Consumption				RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)	
	0.8	0.9	0.8	1.1	1.2	1.0	1.3	
<b>Floors</b>								
One .....	3,007	25,424	8.5	1,751	582	68.9	81.2	6.59
Two .....	1,154	18,025	15.6	1,302	1,128	72.2	65.3	7.24
Three .....	446	9,877	22.2	887	1,989	89.8	92.4	7.42
Four to Nine .....	186	10,377	55.7	1,112	5,971	107.1	98.8	10.26
Ten or More .....	13	4,173	319.7	439	33,641	105.2	49.5	13.40
<b>Percent Window Glass</b>								
25 or Less .....	4,193	51,356	12.2	3,904	931	76.0	91.3	4.82
26 to 50 .....	490	11,815	24.1	1,114	2,272	94.3	57.9	7.78
51 to 75 .....	94	3,206	34.2	312	3,323	97.3	52.0	11.85
76 to 100 .....	29	1,499	52.6	161	5,633	107.1	49.8	21.83
<b>Building Shape</b>								
Square .....	280	3,654	13.0	280	999	76.7	76.3	10.20
Rectangle .....	3,659	39,233	10.7	3,087	844	78.7	79.2	4.93
Right Angle .....	333	6,071	18.2	399	1,199	65.7	69.7	7.82
Other .....	533	18,919	35.5	1,724	3,234	91.1	75.3	9.06
<b>Energy-Related Space Functions (more than one may apply)</b>								
Commercial Food Preparation .....	735	22,166	30.2	2,339	3,182	105.5	75.6	6.74
Computer Room .....	223	14,199	63.7	1,539	6,907	108.4	67.4	8.30
Rooms with Special Ventilation .....	236	8,042	34.0	1,034	4,378	128.6	112.6	7.75
Activities with Large Amounts of Hot Water .....	203	6,862	33.7	964	4,738	140.4	136.0	9.37
<b>Space-Heating Energy Sources (more than one may apply)</b>								
Electricity .....	1,513	25,636	16.9	1,935	1,279	75.5	61.4	8.11
Natural Gas .....	2,397	38,467	16.1	3,453	1,441	89.8	80.6	5.34
Fuel Oil .....	478	7,323	15.3	793	1,658	108.3	96.4	10.27
District Heat .....	91	5,130	56.2	794	8,692	154.7	113.4	11.82
Propane .....	255	1,568	6.2	59	231	37.5	45.9	13.59
Wood .....	102	504	5.0	16	157	31.7	34.6	19.10
Any Other .....	39	661	16.9	17	432	25.6	45.9	29.66
<b>Cooling Energy Sources (more than one may apply)</b>								
Electricity .....	3,404	54,628	16.0	4,722	1,387	86.4	74.1	4.64
Natural Gas .....	106	1,906	17.9	289	2,712	151.4	118.8	19.18
District Chilled Water .....	28	1,914	68.0	292	10,369	152.6	107.8	17.94
<b>Water-Heating Energy Sources (more than one may apply)</b>								
Electricity .....	1,696	25,482	15.0	1,799	1,061	70.6	65.5	6.56
Natural Gas .....	1,643	29,950	18.2	3,007	1,830	100.4	86.3	6.06
Fuel Oil .....	125	2,469	19.7	252	2,010	102.0	83.1	17.29
District Heat .....	36	3,292	90.8	543	14,961	164.8	110.9	14.69
Propane .....	80	659	8.2	31	389	47.1	55.9	25.14
<b>Cooking Energy Sources (more than one may apply)</b>								
Electricity .....	356	12,183	34.2	1,200	3,370	98.5	65.2	10.84
Natural Gas .....	430	15,204	35.3	1,697	3,942	111.6	78.6	8.13
Propane .....	70	1,039	14.9	75	1,072	72.1	69.9	18.52
<b>Manufacturing Energy Sources (more than one may apply)</b>								
Electricity .....	95	2,579	27.3	290	3,070	112.5	138.1	17.73
Natural Gas .....	22	799	36.7	127	5,826	158.7	202.2	30.44
Other .....	15	343	22.6	46	3,018	133.4	201.9	34.28

See footnotes at end of table.

**Table 3.4. Consumption for Sum of Major Fuels, 1992 (Continued)**

Building Characteristics	All Buildings			Sum of Major Fuel Consumption				RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)	
	0.8	0.9	0.8	1.1	1.2	1.0	1.3	
<b>Percent of Floorspace Heated</b>								
Not Heated .....	628	5,880	9.4	126	200	21.4	77.2	19.90
1 to 50 .....	713	11,525	16.2	467	655	40.5	Q	10.32
51 to 99 .....	618	10,211	16.5	885	1,431	86.7	74.2	7.86
100 .....	2,846	40,260	14.1	4,013	1,410	99.7	84.2	4.79
<b>Percent of Floorspace Cooled</b>								
Not Cooled .....	1,304	10,835	8.3	457	351	42.2	105.7	8.87
1 to 50 .....	1,176	21,715	18.5	1,348	1,147	62.1	102.1	5.87
51 to 99 .....	658	13,872	21.1	1,432	2,176	103.2	59.8	8.01
100 .....	1,668	21,454	12.9	2,253	1,351	105.0	75.7	6.84
<b>Heating Equipment (more than one may apply)</b>								
Heat Pumps .....	449	8,269	18.4	704	1,568	85.1	74.2	9.77
Furnaces .....	1,692	16,909	10.0	1,320	780	78.0	66.7	8.25
Individual Space Heaters .....	1,464	22,380	15.3	1,723	1,177	77.0	70.2	7.33
District Heat .....	93	5,225	55.9	829	8,874	158.7	117.7	11.75
Boilers .....	624	20,664	33.1	1,978	3,172	95.7	88.2	6.59
Packaged Heating Units .....	870	16,000	18.4	1,357	1,560	84.8	59.4	9.27
Other .....	42	903	21.2	171	4,031	189.8	149.9	29.96
<b>Heating Distribution Equipment (more than one may apply)</b>								
Radiators or Baseboards .....	473	13,263	28.0	1,379	2,914	103.9	101.7	6.73
Ducts for Heating .....	2,955	45,422	15.4	4,073	1,379	89.7	73.9	4.96
VAV System Used .....	210	11,528	54.8	1,278	6,076	110.9	66.0	12.00
Individual Space Heaters .....	1,464	22,380	15.3	1,723	1,177	77.0	70.2	7.33
Fan Coil Units or Other .....	276	8,457	30.7	1,033	3,749	122.2	115.7	9.59
<b>Cooling Equipment (more than one may apply)</b>								
Residential-Type Central A/C .....	816	9,021	11.0	898	1,099	99.5	92.2	9.63
Heat Pumps .....	454	8,406	18.5	753	1,659	89.5	78.7	9.75
Individual A/C .....	1,023	17,979	17.6	1,454	1,421	80.8	80.8	9.11
District Chilled Water .....	28	2,066	72.6	309	10,863	149.6	114.1	18.35
Central Chillers .....	142	12,991	91.5	1,482	10,437	114.1	80.2	9.92
Packaged A/C Units .....	1,459	27,830	19.1	2,514	1,723	90.3	76.7	5.74
Swamp Coolers .....	179	2,085	11.7	228	1,273	109.2	75.1	20.32
Other .....	8	268	35.0	17	Q	63.2	66.6	39.35
<b>Cooling Distribution Equipment (more than one may apply)</b>								
Ducts for Cooling .....	2,733	47,755	17.5	4,337	1,587	90.8	77.6	4.67
VAV System Used .....	221	12,430	56.2	1,391	6,289	111.9	78.0	8.91
Individual A/C .....	1,023	17,979	17.6	1,454	1,421	80.8	80.8	9.11
Fan Coil Units or Other .....	166	6,611	39.8	817	4,920	123.6	99.7	13.22
<b>Water-Heating Equipment (more than one may apply)</b>								
Centralized System .....	1,994	31,599	15.8	3,185	1,597	100.8	89.3	6.20
Distributed System .....	1,557	29,502	18.9	2,306	1,481	78.2	67.8	7.46
<b>Energy Conservation Features (more than one may apply)</b>								
Any Conservation Features .....	4,357	64,403	14.8	5,410	1,242	84.0	77.1	4.47
Building Shell .....	4,223	62,056	14.7	5,284	1,251	85.1	76.5	4.53
HVAC .....	2,604	50,281	19.3	4,699	1,804	93.4	77.0	4.72
Lighting .....	1,178	29,453	25.0	2,799	2,377	95.0	70.8	6.55
Other .....	264	5,952	22.6	552	2,095	92.8	92.2	7.59

See footnotes at end of table.

**Table 3.4. Consumption for Sum of Major Fuels, 1992 (Continued)**

Building Characteristics	All Buildings			Sum of Major Fuel Consumption				RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)	
	0.8	0.9	0.8	1.1	1.2	1.0	1.3	
<b>Energy Management Practices (more than one may apply)</b>								
Energy Management and Control System .....	236	14,320	60.7	1,571	6,663	109.7	75.6	8.73
Demand-Side Management <sup>1</sup>								
Participation .....	315	11,310	35.9	1,327	4,216	117.3	68.9	9.76
Energy Audit .....	521	14,779	28.3	1,479	2,837	100.1	78.7	7.01
Building Energy Manager .....	49	2,311	46.8	297	6,013	128.4	83.6	17.51

<sup>1</sup> 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. • 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.

**Table 3.5. Expenditures for Sum of Major Fuels, 1992**

Building Characteristics	All Buildings			Sum of Major Fuel Expenditures				RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)	
	1.0	1.1	0.9	1.2	1.2	1.0	0.7	
RSE Column Factor:	1.0	1.1	0.9	1.2	1.2	1.0	0.7	
<b>All Buildings</b> .....	4,806	67,876	14.1	71,821	14.9	1.06	13.08	3.81
<b>Building Floorspace (square feet)</b>								
1,001 to 5,000 .....	2,681	7,327	2.7	10,559	3.9	1.44	15.03	4.39
5,001 to 10,000 .....	975	7,199	7.4	7,995	8.2	1.11	14.40	4.05
10,001 to 25,000 .....	647	10,375	16.0	10,126	15.6	0.98	11.71	4.60
25,001 to 50,000 .....	280	10,069	35.9	9,864	35.2	0.98	12.43	6.02
50,001 to 100,000 .....	116	8,062	69.8	8,483	73.4	1.05	13.21	6.18
100,001 to 200,000 .....	71	9,678	137.0	8,413	119.1	0.87	13.14	6.27
200,001 to 500,000 .....	26	7,889	302.8	8,457	324.6	1.07	11.90	8.11
Over 500,000 .....	9	7,278	770.5	7,924	838.9	1.09	13.65	15.97
<b>Principal Building Activity</b>								
Education .....	301	8,470	28.2	7,389	24.6	0.87	11.60	6.68
Food Sales .....	130	757	5.8	2,389	18.3	3.16	17.39	10.73
Food Service .....	260	1,491	5.7	4,280	16.5	2.87	13.93	8.42
Health Care .....	63	1,763	27.9	3,733	59.0	2.12	9.27	13.01
Lodging .....	154	2,891	18.8	5,459	35.5	1.89	11.80	13.77
Mercantile and Service .....	1,272	12,402	9.7	12,907	10.1	1.04	14.47	6.40
Office .....	749	12,319	16.4	18,102	24.2	1.47	14.51	7.11
Parking Garage .....	24	1,652	69.9	811	34.3	0.49	15.71	27.52
Public Assembly .....	278	4,556	16.4	4,163	15.0	0.91	13.43	12.85
Public Order and Safety .....	60	820	13.7	998	16.6	1.22	11.00	19.12
Religious Worship .....	366	3,747	10.2	1,299	3.6	0.35	11.94	9.16
Warehouse and Storage .....	761	11,484	15.1	6,750	8.9	0.59	12.81	8.79
Other .....	69	1,130	16.4	1,954	28.4	1.73	10.60	17.11
Vacant .....	319	4,396	13.8	1,585	5.0	0.36	12.06	12.75
<b>Year Constructed</b>								
1899 or Before .....	169	1,721	10.2	1,447	8.6	0.84	12.25	13.29
1900 to 1919 .....	255	3,608	14.1	2,516	9.9	0.70	11.80	10.05
1920 to 1945 .....	724	8,712	12.0	7,534	10.4	0.86	11.31	9.03
1946 to 1959 .....	880	10,421	11.8	9,797	11.1	0.94	12.24	7.59
1960 to 1969 .....	783	12,612	16.1	14,532	18.5	1.15	12.92	7.17
1970 to 1979 .....	982	14,014	14.3	16,459	16.8	1.17	13.05	6.72
1980 to 1989 .....	884	14,287	16.2	16,834	19.0	1.18	14.86	7.78
1990 to 1992 .....	128	2,502	19.6	2,702	21.1	1.08	15.59	11.66
<b>Census Region and Division</b>								
Northeast .....	771	13,400	17.4	16,226	21.1	1.21	14.89	6.69
New England .....	186	3,265	17.6	4,063	21.8	1.24	13.60	14.18
Middle Atlantic .....	585	10,135	17.3	12,163	20.8	1.20	15.38	9.63
Midwest .....	1,202	17,280	14.4	16,957	14.1	0.98	10.75	6.88
East North Central .....	749	10,712	14.3	11,040	14.7	1.03	10.94	8.57
West North Central .....	453	6,568	14.5	5,916	13.1	0.90	10.41	13.01
South .....	1,963	24,577	12.5	22,843	11.6	0.93	12.52	6.87
South Atlantic .....	755	10,586	14.0	10,893	14.4	1.03	14.06	9.67
East South Central .....	454	5,375	11.8	4,728	10.4	0.88	11.57	10.55
West South Central .....	754	8,616	11.4	7,222	9.6	0.84	11.26	15.49
West .....	870	12,619	14.5	15,795	18.2	1.25	15.83	8.24
Mountain .....	297	3,645	12.3	4,372	14.7	1.20	12.59	17.07
Pacific .....	574	8,974	15.6	11,424	19.9	1.27	17.56	9.06
<b>Climate Zone: 45-Year Average</b>								
Fewer than 2,000 CDD and --								
More than 7,000 HDD .....	399	5,623	14.1	4,806	12.0	0.85	10.07	10.52
5,500-7,000 HDD .....	1,134	18,024	15.9	19,519	17.2	1.08	11.89	8.01
4,000-5,499 HDD .....	1,077	16,162	15.0	16,998	15.8	1.05	13.34	9.73
Fewer than 4,000 HDD .....	1,101	15,251	13.8	17,400	15.8	1.14	14.77	10.27
More than 2,000 CDD and --								
Fewer than 4,000 HDD .....	1,095	12,816	11.7	13,098	12.0	1.02	14.25	11.59

See footnotes at end of table.

**Table 3.5. Expenditures for Sum of Major Fuels, 1992 (Continued)**

Building Characteristics	All Buildings			Sum of Major Fuel Expenditures				RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)	
	1.0	1.1	0.9	1.2	1.2	1.0	0.7	
<b>Energy Sources (more than one may apply)</b>								
Electricity .....	4,611	66,525	14.4	71,817	15.6	1.08	13.08	3.56
Natural Gas .....	2,657	44,994	16.9	51,785	19.5	1.15	12.15	4.58
Fuel Oil .....	560	13,215	23.6	17,748	31.7	1.34	12.32	8.35
District Heat .....	95	5,245	55.4	9,106	96.3	1.74	10.85	14.69
District Chilled Water .....	28	1,914	68.0	3,167	112.5	1.65	10.85	15.91
Propane .....	337	3,393	10.1	3,561	10.6	1.05	16.18	11.38
Any Other .....	163	1,551	9.5	992	6.1	0.64	14.78	13.92
<b>Energy End Uses (more than one may apply)</b>								
Heated Buildings .....	4,178	61,996	14.8	69,379	16.6	1.12	12.93	3.88
Buildings with A/C .....	3,502	57,041	16.3	66,430	19.0	1.16	13.20	3.98
Buildings with Water Heating .....	3,502	58,479	16.7	67,927	19.4	1.16	12.92	4.04
Buildings with Cooking .....	734	23,065	31.4	30,816	42.0	1.34	12.94	5.80
Buildings with Manufacturing .....	121	3,174	26.3	3,736	31.0	1.18	10.51	13.38
<b>Workers (main shift)</b>								
Less than 5 .....	2,718	17,944	6.6	11,530	4.2	0.64	14.43	7.23
5 to 9 .....	895	7,524	8.4	7,425	8.3	0.99	11.93	6.00
10 to 19 .....	561	8,077	14.4	8,608	15.3	1.07	13.56	6.91
20 to 49 .....	405	10,556	26.1	12,382	30.6	1.17	12.19	6.24
50 to 99 .....	130	7,763	59.7	8,554	65.8	1.10	12.44	8.27
100 or More .....	96	16,011	167.1	23,323	243.4	1.46	13.47	6.24
<b>Weekly Operating Hours</b>								
39 or Fewer .....	1,039	8,246	7.9	3,233	3.1	0.39	11.63	6.76
40 to 48 .....	1,278	14,998	11.7	13,455	10.5	0.90	13.31	5.59
49 to 60 .....	1,004	14,046	14.0	12,678	12.6	0.90	13.57	5.54
61 to 84 .....	645	12,062	18.7	13,532	21.0	1.12	14.07	7.16
85 to 167 .....	478	8,467	17.7	12,026	25.1	1.42	14.34	7.87
Open Continuously .....	362	10,057	27.8	16,896	46.7	1.68	11.52	10.27
<b>Ownership and Occupancy</b>								
Nongovernment Owned .....	4,206	52,752	12.5	56,302	13.4	1.07	13.59	4.17
Owner Occupied .....	3,192	38,403	12.0	43,713	13.7	1.14	13.20	4.16
Single Establishment .....	2,864	29,992	10.5	34,881	12.2	1.16	12.68	4.83
Multiple Establishment .....	328	8,411	25.6	8,832	26.9	1.05	15.71	7.82
Nonowner Occupied .....	817	12,273	15.0	12,089	14.8	0.99	15.21	8.52
Single Establishment .....	495	5,565	11.2	5,623	11.4	1.01	13.80	14.90
Multiple Establishment .....	322	6,708	20.8	6,465	20.1	0.96	16.70	8.10
Vacant .....	197	2,077	10.5	500	2.5	0.24	13.89	19.24
Government Owned .....	599	15,124	25.2	15,519	25.9	1.03	11.52	6.40
<b>Predominant Exterior Wall Material</b>								
Masonry .....	3,115	48,585	15.6	51,397	16.5	1.06	12.80	4.18
Siding or Shingles .....	764	3,873	5.1	4,006	5.2	1.03	15.29	7.38
Metal Panels .....	745	7,392	9.9	5,861	7.9	0.79	11.61	10.52
Concrete Panels .....	87	4,961	56.7	5,841	66.8	1.18	14.33	11.88
Window Glass .....	46	2,028	43.6	3,347	72.0	1.65	17.17	15.65
Other .....	47	1,037	22.1	1,370	29.1	1.32	13.09	21.77
<b>Predominant Roof Material</b>								
Built-Up .....	1,642	30,257	18.4	34,687	21.1	1.15	13.38	5.18
Shingles (Not Wood) .....	1,381	10,570	7.7	9,813	7.1	0.93	13.37	6.78
Metal Surfacing .....	1,037	9,019	8.7	6,427	6.2	0.71	11.69	8.37
Synthetic or Rubber .....	386	11,702	30.3	14,644	38.0	1.25	12.57	6.82
Other .....	359	6,328	17.6	6,251	17.4	0.99	13.96	10.26

See footnotes at end of table.

**Table 3.5. Expenditures for Sum of Major Fuels, 1992 (Continued)**

Building Characteristics	All Buildings			Sum of Major Fuel Expenditures				RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)	
	1.0	1.1	0.9	1.2	1.2	1.0	0.7	
<b>Floors</b>								
One .....	3,007	25,424	8.5	24,083	8.0	0.95	13.75	5.60
Two .....	1,154	18,025	15.6	18,040	15.6	1.00	13.86	4.94
Three .....	446	9,877	22.2	10,674	23.9	1.08	12.04	7.18
Four to Nine .....	186	10,377	55.7	12,623	67.8	1.22	11.35	9.01
Ten or More .....	13	4,173	319.7	6,402	490.5	1.53	14.58	12.04
<b>Percent Window Glass</b>								
25 or Less .....	4,193	51,356	12.2	49,909	11.9	0.97	12.78	4.36
26 to 50 .....	490	11,815	24.1	14,726	30.0	1.25	13.22	5.81
51 to 75 .....	94	3,206	34.2	4,580	48.8	1.43	14.68	10.47
76 to 100 .....	29	1,499	52.6	2,606	91.4	1.74	16.23	17.32
<b>Building Shape</b>								
Square .....	280	3,654	13.0	3,842	13.7	1.05	13.71	9.16
Rectangle .....	3,659	39,233	10.7	41,205	11.3	1.05	13.35	4.25
Right Angle .....	333	6,071	18.2	5,483	16.5	0.90	13.74	6.90
Other .....	533	18,919	35.5	21,292	39.9	1.13	12.35	7.13
<b>Energy-Related Space Functions (more than one may apply)</b>								
Commercial Food Preparation .....	735	22,166	30.2	30,221	41.1	1.36	12.92	5.29
Computer Room .....	223	14,199	63.7	20,434	91.7	1.44	13.27	7.04
Rooms with Special Ventilation .....	236	8,042	34.0	11,678	49.4	1.45	11.29	8.01
Activities with Large Amounts of Hot Water .....	203	6,862	33.7	10,083	49.6	1.47	10.46	8.11
<b>Space-Heating Energy Sources (more than one may apply)</b>								
Electricity .....	1,513	25,636	16.9	29,489	19.5	1.15	15.24	6.09
Natural Gas .....	2,397	38,467	16.1	41,084	17.1	1.07	11.90	4.39
Fuel Oil .....	478	7,323	15.3	8,663	18.1	1.18	10.93	8.67
District Heat .....	91	5,130	56.2	8,820	96.6	1.72	11.11	11.61
Propane .....	255	1,568	6.2	1,300	5.1	0.83	22.09	12.40
Wood .....	102	504	5.0	263	2.6	0.52	16.43	14.71
Any Other .....	39	661	16.9	232	5.9	0.35	13.70	28.74
<b>Cooling Energy Sources (more than one may apply)</b>								
Electricity .....	3,404	54,628	16.0	63,077	18.5	1.15	13.36	3.99
Natural Gas .....	106	1,906	17.9	3,002	28.2	1.57	10.40	15.20
District Chilled Water .....	28	1,914	68.0	3,167	112.5	1.65	10.85	15.91
<b>Water-Heating Energy Sources (more than one may apply)</b>								
Electricity .....	1,696	25,482	15.0	26,508	15.6	1.04	14.73	5.90
Natural Gas .....	1,643	29,950	18.2	35,962	21.9	1.20	11.96	4.87
Fuel Oil .....	125	2,469	19.7	2,905	23.2	1.18	11.53	13.56
District Heat .....	36	3,292	90.8	5,995	165.3	1.82	11.05	14.47
Propane .....	80	659	8.2	717	9.0	1.09	23.09	21.18
<b>Cooking Energy Sources (more than one may apply)</b>								
Electricity .....	356	12,183	34.2	16,429	46.1	1.35	13.69	8.19
Natural Gas .....	430	15,204	35.3	20,650	48.0	1.36	12.17	6.06
Propane .....	70	1,039	14.9	1,332	19.1	1.28	17.77	16.57
<b>Manufacturing Energy Sources (more than one may apply)</b>								
Electricity .....	95	2,579	27.3	3,080	32.6	1.19	10.61	14.56
Natural Gas .....	22	799	36.7	960	44.1	1.20	7.57	24.10
Other .....	15	343	22.6	477	31.4	1.39	10.42	27.33

See footnotes at end of table.

**Table 3.5. Expenditures for Sum of Major Fuels, 1992 (Continued)**

Building Characteristics	All Buildings			Sum of Major Fuel Expenditures				RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)	
	1.0	1.1	0.9	1.2	1.2	1.0	0.7	
<b>Percent of Floorspace Heated</b>								
Not Heated .....	628	5,880	9.4	2,442	3.9	0.42	19.42	14.71
1 to 50 .....	713	11,525	16.2	7,115	10.0	0.62	15.24	8.20
51 to 99 .....	618	10,211	16.5	12,165	19.7	1.19	13.75	7.08
100 .....	2,846	40,260	14.1	50,099	17.6	1.24	12.49	4.22
<b>Percent of Floorspace Cooled</b>								
Not Cooled .....	1,304	10,835	8.3	5,391	4.1	0.50	11.78	7.67
1 to 50 .....	1,176	21,715	18.5	15,648	13.3	0.72	11.61	5.04
51 to 99 .....	658	13,872	21.1	19,454	29.6	1.40	13.59	6.74
100 .....	1,668	21,454	12.9	31,328	18.8	1.46	13.91	5.93
<b>Heating Equipment (more than one may apply)</b>								
Heat Pumps .....	449	8,269	18.4	10,355	23.1	1.25	14.71	8.76
Furnaces .....	1,692	16,909	10.0	15,953	9.4	0.94	12.09	5.34
Individual Space Heaters .....	1,464	22,380	15.3	22,391	15.3	1.00	12.99	5.50
District Heat .....	93	5,225	55.9	9,008	96.4	1.72	10.86	11.40
Boilers .....	624	20,664	33.1	22,741	36.5	1.10	11.49	5.98
Packaged Heating Units .....	870	16,000	18.4	20,026	23.0	1.25	14.76	6.77
Other .....	42	903	21.2	2,049	48.2	2.27	11.96	23.31
<b>Heating Distribution Equipment (more than one may apply)</b>								
Radiators or Baseboards .....	473	13,263	28.0	14,793	31.3	1.12	10.73	6.08
Ducts for Heating .....	2,955	45,422	15.4	53,420	18.1	1.18	13.12	4.23
VAV System Used .....	210	11,528	54.8	16,354	77.7	1.42	12.80	9.32
Individual Space Heaters .....	1,464	22,380	15.3	22,391	15.3	1.00	12.99	5.50
Fan Coil Units or Other .....	276	8,457	30.7	11,132	40.4	1.32	10.77	7.72
<b>Cooling Equipment (more than one may apply)</b>								
Residential-Type Central A/C .....	816	9,021	11.0	9,791	12.0	1.09	10.91	7.72
Heat Pumps .....	454	8,406	18.5	10,729	23.7	1.28	14.26	8.46
Individual A/C .....	1,023	17,979	17.6	17,702	17.3	0.98	12.18	6.16
District Chilled Water .....	28	2,066	72.6	3,220	113.1	1.56	10.42	16.28
Central Chillers .....	142	12,991	91.5	18,581	130.9	1.43	12.54	8.68
Packaged A/C Units .....	1,459	27,830	19.1	34,931	23.9	1.26	13.90	4.93
Swamp Coolers .....	179	2,085	11.7	2,843	15.9	1.36	12.49	15.22
Other .....	8	268	35.0	249	Q	0.93	14.74	34.14
<b>Cooling Distribution Equipment (more than one may apply)</b>								
Ducts for Cooling .....	2,733	47,755	17.5	57,807	21.2	1.21	13.33	4.36
VAV System Used .....	221	12,430	56.2	18,366	83.0	1.48	13.20	8.49
Individual A/C .....	1,023	17,979	17.6	17,702	17.3	0.98	12.18	6.16
Fan Coil Units or Other .....	166	6,611	39.8	8,837	53.2	1.34	10.82	11.36
<b>Water-Heating Equipment (more than one may apply)</b>								
Centralized System .....	1,994	31,599	15.8	39,145	19.6	1.24	12.29	5.85
Distributed System .....	1,557	29,502	18.9	31,733	20.4	1.08	13.76	5.63
<b>Energy Conservation Features (more than one may apply)</b>								
Any Conservation Features .....	4,357	64,403	14.8	70,720	16.2	1.10	13.07	3.86
Building Shell .....	4,223	62,056	14.7	68,828	16.3	1.11	13.03	3.91
HVAC .....	2,604	50,281	19.3	60,920	23.4	1.21	12.97	4.14
Lighting .....	1,178	29,453	25.0	37,614	31.9	1.28	13.44	5.37
Other .....	264	5,952	22.6	6,921	26.3	1.16	12.53	7.56

See footnotes at end of table.



**Table 3.5. Expenditures for Sum of Major Fuels, 1992 (Continued)**

Building Characteristics	All Buildings			Sum of Major Fuel Expenditures				RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)	
	1.0	1.1	0.9	1.2	1.2	1.0	0.7	
RSE Column Factor:								
<b>Energy Management Practices (more than one may apply)</b>								
Energy Management and Control System .....	236	14,320	60.7	19,830	84.1	1.38	12.62	8.50
Demand-Side Management <sup>1</sup> Participation .....	315	11,310	35.9	15,493	49.2	1.37	11.68	7.39
Energy Audit .....	521	14,779	28.3	19,319	37.0	1.31	13.06	6.45
Building Energy Manager .....	49	2,311	46.8	3,156	64.0	1.37	10.64	15.52

<sup>1</sup> 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. • 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.

**Table 3.6. Gross Expenditures Intensities for Sum of Major Fuels by Main Heating Fuel, 1992**  
(Dollars per Square Foot)

Building Characteristics	Buildings with Heat						Buildings Without Heat	RSE Row Factor
	All Buildings	All Heated Buildings	Main Heat					
			Electricity	Natural Gas	Fuel Oil	District Heat		
RSE Column Factor:	0.6	0.6	1.1	0.7	1.2	1.4	2.3	
<b>All Buildings</b> .....	1.06	1.12	1.16	1.06	1.01	1.76	0.42	7.50
<b>Building Floorspace (square feet)</b>								
1,001 to 5,000 .....	1.44	1.62	2.03	1.62	1.11	Q	0.46	9.13
5,001 to 10,000 .....	1.11	1.18	1.37	1.14	1.11	1.46	Q	12.74
10,001 to 25,000 .....	0.98	1.06	1.02	1.08	0.88	1.59	0.18	11.07
25,001 to 50,000 .....	0.98	1.06	1.20	0.95	0.84	2.11	Q	16.68
50,001 to 100,000 .....	1.05	1.07	1.10	1.07	0.73	1.52	Q	13.19
100,001 to 200,000 .....	0.87	0.92	1.09	0.80	1.08	1.53	Q	16.35
200,001 to 500,000 .....	1.07	1.10	0.75	1.03	1.10	1.67	Q	20.21
Over 500,000 .....	1.09	1.11	Q	1.03	Q	2.14	Q	23.86
<b>Principal Building Activity</b>								
Education .....	0.87	0.88	0.90	0.86	0.80	1.19	Q	9.37
Food Sales .....	3.16	3.17	3.21	3.11	Q	Q	Q	18.34
Food Service .....	2.87	2.92	3.76	2.93	Q	Q	Q	19.06
Health Care .....	2.12	2.13	1.48	2.12	Q	2.49	Q	17.05
Lodging .....	1.89	1.85	1.92	1.93	Q	1.85	Q	24.68
Mercantile and Service .....	1.04	1.05	1.15	1.05	0.96	Q	Q	10.54
Office .....	1.47	1.47	1.40	1.38	1.24	2.09	Q	11.89
Parking Garage .....	0.49	Q	Q	Q	Q	Q	0.29	36.06
Public Assembly .....	0.91	0.92	Q	1.00	Q	1.36	Q	29.41
Public Order and Safety .....	1.22	1.22	Q	0.98	Q	Q	Q	31.33
Religious Worship .....	0.35	0.35	0.43	0.34	0.33	Q	Q	14.94
Warehouse and Storage .....	0.59	0.66	0.64	0.63	1.09	Q	0.36	15.72
Other .....	1.73	1.82	Q	1.80	Q	1.95	Q	23.79
Vacant .....	0.36	0.50	0.44	0.54	Q	Q	Q	30.63
<b>Year Constructed</b>								
1899 or Before .....	0.84	0.86	Q	0.80	0.78	Q	Q	23.47
1900 to 1919 .....	0.70	0.74	1.22	0.57	1.03	1.27	Q	23.99
1920 to 1945 .....	0.86	0.96	0.84	0.95	0.88	1.45	0.11	16.43
1946 to 1959 .....	0.94	1.00	1.02	0.90	1.17	1.79	0.44	15.48
1960 to 1969 .....	1.15	1.20	1.11	1.15	1.03	1.89	0.63	12.60
1970 to 1979 .....	1.17	1.25	1.31	1.25	0.97	1.62	0.37	11.42
1980 to 1989 .....	1.18	1.22	1.17	1.21	1.03	2.34	0.61	17.91
1990 to 1992 .....	1.08	1.15	1.06	1.19	Q	1.60	0.31	17.92
<b>Census Region and Division</b>								
Northeast .....	1.21	1.25	1.29	1.20	1.08	1.87	0.32	12.99
New England .....	1.24	1.26	1.30	1.65	1.01	1.34	Q	13.84
Middle Atlantic .....	1.20	1.24	1.29	1.13	1.13	2.08	0.34	16.87
Midwest .....	0.98	1.02	0.97	0.97	0.66	1.70	Q	13.69
East North Central .....	1.03	1.08	1.05	1.01	0.46	1.89	0.19	13.37
West North Central .....	0.90	0.93	0.84	0.88	Q	1.44	Q	19.52
South .....	0.93	1.01	1.05	0.98	0.90	1.63	0.32	12.06
South Atlantic .....	1.03	1.10	1.09	1.15	0.96	1.90	0.43	13.91
East South Central .....	0.88	0.97	1.16	0.88	Q	1.52	0.41	11.69
West South Central .....	0.84	0.93	Q	0.90	Q	1.33	0.12	22.65
West .....	1.25	1.32	1.50	1.23	Q	1.82	0.71	16.37
Mountain .....	1.20	1.26	1.37	1.04	Q	Q	Q	27.94
Pacific .....	1.27	1.35	1.57	1.31	Q	1.49	0.78	14.36
<b>Climate Zone: 45-Year Average</b>								
Fewer than 2,000 CDD and --								
More than 7,000 HDD .....	0.85	0.88	1.17	0.82	0.84	1.05	Q	13.88
5,500-7,000 HDD .....	1.08	1.13	1.13	1.05	1.05	1.73	0.20	11.90
4,000-5,499 HDD .....	1.05	1.10	1.16	1.01	1.05	2.03	0.41	11.89
Fewer than 4,000 HDD .....	1.14	1.23	1.35	1.19	Q	1.67	0.45	12.85
More than 2,000 CDD and --								
Fewer than 4,000 HDD .....	1.02	1.11	1.04	1.11	Q	1.96	0.45	21.59

See footnotes at end of table.

**Table 3.6. Gross Expenditures Intensities for Sum of Major Fuels by Main Heating Fuel, 1992 (Continued)**  
(Dollars per Square Foot)

Building Characteristics	Buildings with Heat						Buildings Without Heat	RSE Row Factor
	All Buildings	All Heated Buildings	Main Heat					
			Electricity	Natural Gas	Fuel Oil	District Heat		
RSE Column Factor:	0.6	0.6	1.1	0.7	1.2	1.4	2.3	
<b>Energy Sources (more than one may apply)</b>								
Electricity .....	1.08	1.12	1.16	1.06	1.01	1.76	0.54	6.17
Natural Gas .....	1.15	1.15	1.42	1.06	1.22	1.94	Q	8.76
Fuel Oil .....	1.34	1.35	1.41	1.54	1.01	1.98	Q	9.87
District Heat .....	1.74	1.74	Q	Q	Q	1.76	Q	12.09
District Chilled Water .....	1.65	1.64	1.58	Q	Q	1.74	Q	22.02
Propane .....	1.05	1.05	1.28	1.31	1.02	Q	Q	15.75
Any Other .....	0.64	0.63	Q	0.95	Q	Q	Q	28.97
<b>Energy End Uses (more than one may apply)</b>								
Heated Buildings .....	1.12	1.12	1.16	1.06	1.01	1.76	Q	7.28
Buildings with A/C .....	1.16	1.17	1.20	1.10	1.07	1.83	1.02	7.95
Buildings with Water Heating .....	1.16	1.16	1.20	1.09	1.06	1.78	1.38	8.57
Buildings with Cooking .....	1.34	1.34	1.35	1.29	1.17	1.88	Q	10.80
Buildings with Manufacturing .....	1.18	1.17	1.32	1.11	1.70	1.14	Q	24.03
<b>Workers (main shift)</b>								
Less than 5 .....	0.64	0.78	0.88	0.72	0.66	2.48	0.21	16.37
5 to 9 .....	0.99	1.03	1.03	1.01	1.08	1.37	Q	10.84
10 to 19 .....	1.07	1.08	1.14	1.05	1.11	1.32	Q	14.20
20 to 49 .....	1.17	1.16	1.44	1.05	1.19	1.67	Q	13.60
50 to 99 .....	1.10	1.08	1.33	1.02	0.94	1.31	Q	14.49
100 or More .....	1.46	1.46	1.32	1.40	1.25	1.95	Q	12.15
<b>Weekly Operating Hours</b>								
39 or Fewer .....	0.39	0.50	0.51	0.50	0.51	Q	0.12	12.38
40 to 48 .....	0.90	0.94	0.99	0.87	0.86	1.69	0.48	9.35
49 to 60 .....	0.90	0.94	1.03	0.83	1.09	1.68	0.34	11.41
61 to 84 .....	1.12	1.15	1.04	1.15	1.22	1.83	0.55	12.36
85 to 167 .....	1.42	1.42	1.72	1.36	Q	1.69	Q	15.66
Open Continuously .....	1.68	1.75	Q	1.94	1.66	1.93	Q	20.68
<b>Ownership and Occupancy</b>								
Nongovernment Owned .....	1.07	1.14	1.20	1.09	1.00	1.89	0.43	8.97
Owner Occupied .....	1.14	1.19	1.34	1.11	1.06	1.87	0.54	8.27
Single Establishment .....	1.16	1.22	1.42	1.15	1.01	1.92	0.53	9.42
Multiple Establishment .....	1.05	1.07	1.11	0.96	1.29	1.71	Q	13.89
Nonowner Occupied .....	0.99	1.03	0.94	1.06	0.88	2.05	0.45	18.50
Single Establishment .....	1.01	1.06	Q	1.22	0.92	Q	0.48	27.17
Multiple Establishment .....	0.96	1.00	0.96	0.95	Q	2.33	0.41	16.12
Vacant .....	0.24	0.43	Q	0.47	Q	Q	0.12	42.39
Government Owned .....	1.03	1.06	0.90	0.99	1.03	1.60	0.34	11.43
<b>Predominant Exterior Wall Material</b>								
Masonry .....	1.06	1.11	1.15	1.06	1.02	1.66	0.36	9.61
Siding or Shingles .....	1.03	1.12	1.32	1.08	1.06	Q	0.56	17.02
Metal Panels .....	0.79	0.90	0.88	0.88	0.81	Q	0.43	14.72
Concrete Panels .....	1.18	1.24	1.18	1.14	Q	1.74	0.25	23.08
Window Glass .....	1.65	1.73	1.50	1.59	Q	2.51	Q	21.34
Other .....	1.32	1.32	1.49	1.22	Q	Q	Q	36.21
<b>Predominant Roof Material</b>								
Built-Up .....	1.15	1.18	1.18	1.13	1.09	1.84	0.60	10.88
Shingles (Not Wood) .....	0.93	0.98	1.20	0.87	0.87	1.93	0.29	13.65
Metal Surfacing .....	0.71	0.83	0.88	0.82	0.77	1.48	0.26	14.08
Synthetic or Rubber .....	1.25	1.27	1.35	1.23	1.23	1.58	Q	12.38
Other .....	0.99	1.09	1.15	0.92	0.64	1.77	0.47	21.19

See footnotes at end of table.

**Table 3.6. Gross Expenditures Intensities for Sum of Major Fuels by Main Heating Fuel, 1992 (Continued)**  
(Dollars per Square Foot)

Building Characteristics	Buildings with Heat						Buildings Without Heat	RSE Row Factor
	All Buildings	All Heated Buildings	Main Heat					
			Electricity	Natural Gas	Fuel Oil	District Heat		
RSE Column Factor:	0.6	0.6	1.1	0.7	1.2	1.4	2.3	
<b>Floors</b>								
One .....	0.95	1.04	1.07	1.03	1.07	1.59	0.33	13.21
Two .....	1.00	1.03	1.22	1.00	0.83	1.36	0.45	11.49
Three .....	1.08	1.11	1.57	0.99	1.00	1.61	Q	12.05
Four to Nine .....	1.22	1.28	1.04	1.30	0.95	1.60	0.57	14.95
Ten or More .....	1.53	1.58	1.13	1.46	Q	2.35	Q	13.09
<b>Percent Window Glass</b>								
25 or Less .....	0.97	1.04	1.06	1.00	1.02	1.63	0.39	9.27
26 to 50 .....	1.25	1.26	1.38	1.21	0.91	1.77	Q	12.47
51 to 75 .....	1.43	1.43	1.69	1.21	1.16	1.88	Q	14.42
76 to 100 .....	1.74	1.75	1.32	1.77	Q	2.66	Q	20.07
<b>Building Shape</b>								
Square .....	1.05	1.20	1.76	1.02	Q	1.69	0.30	18.26
Rectangle .....	1.05	1.14	1.18	1.07	1.09	1.76	0.36	8.32
Right Angle .....	0.90	0.93	1.04	0.83	1.18	1.53	Q	16.52
Other .....	1.13	1.13	1.05	1.13	0.83	1.82	Q	13.05
<b>Energy-Related Space Functions (more than one may apply)</b>								
Commercial Food Preparation .....	1.36	1.37	1.48	1.29	1.17	1.88	Q	7.96
Computer Room .....	1.44	1.44	1.45	1.41	1.13	1.93	Q	10.98
Rooms with Special Ventilation .....	1.45	1.45	1.63	1.31	1.03	1.95	Q	10.82
Activities with Large Amounts of Hot Water .....	1.47	1.47	1.49	1.41	1.31	1.83	Q	13.40
<b>Space-Heating Energy Sources (more than one may apply)</b>								
Electricity .....	1.15	1.15	1.16	1.12	0.99	2.13	Q	11.63
Natural Gas .....	1.07	1.07	1.12	1.06	1.05	1.98	Q	8.55
Fuel Oil .....	1.18	1.18	Q	1.54	1.01	Q	Q	10.85
District Heat .....	1.72	1.72	Q	Q	Q	1.76	Q	14.11
Propane .....	0.83	0.83	Q	Q	Q	Q	Q	21.43
Wood .....	0.52	0.52	Q	Q	Q	Q	Q	21.65
Any Other .....	0.35	0.35	Q	Q	Q	Q	Q	44.18
<b>Cooling Energy Sources (more than one may apply)</b>								
Electricity .....	1.15	1.16	1.19	1.11	1.08	1.79	1.00	8.11
Natural Gas .....	1.57	1.57	Q	1.51	Q	Q	Q	35.56
District Chilled Water .....	1.65	1.64	1.58	Q	Q	1.74	Q	22.02
<b>Water-Heating Energy Sources (more than one may apply)</b>								
Electricity .....	1.04	1.04	1.09	0.99	1.00	1.20	Q	10.29
Natural Gas .....	1.20	1.19	1.61	1.13	1.03	2.05	Q	10.29
Fuel Oil .....	1.18	1.18	Q	Q	1.07	Q	Q	19.67
District Heat .....	1.82	1.82	Q	Q	Q	1.83	Q	16.29
Propane .....	1.09	1.10	Q	Q	Q	Q	Q	32.95
<b>Cooking Energy Sources (more than one may apply)</b>								
Electricity .....	1.35	1.34	1.30	1.33	1.19	1.85	Q	17.87
Natural Gas .....	1.36	1.37	1.45	1.30	1.18	2.03	Q	10.33
Propane .....	1.28	1.29	1.45	Q	1.18	Q	Q	22.85

See footnotes at end of table.

**Table 3.6. Gross Expenditures Intensities for Sum of Major Fuels by Main Heating Fuel, 1992 (Continued)**  
(Dollars per Square Foot)

Building Characteristics	Buildings with Heat						Buildings Without Heat	RSE Row Factor
	All Buildings	All Heated Buildings	Main Heat					
			Electricity	Natural Gas	Fuel Oil	District Heat		
RSE Column Factor:	0.6	0.6	1.1	0.7	1.2	1.4	2.3	
<b>Manufacturing Energy Sources (more than one may apply)</b>								
Electricity .....	1.19	1.19	1.37	1.13	Q	Q	Q	26.44
Natural Gas .....	1.20	1.19	Q	1.21	Q	Q	Q	36.57
Other .....	1.39	1.42	Q	Q	Q	Q	Q	49.28
<b>Percent of Floorspace Heated</b>								
Not Heated .....	0.42	Q	Q	Q	Q	Q	0.42	18.38
1 to 50 .....	0.62	0.62	0.62	0.62	0.68	Q	Q	14.43
51 to 99 .....	1.19	1.19	1.39	1.08	1.07	1.73	Q	14.95
100 .....	1.24	1.24	1.34	1.17	1.05	1.84	Q	7.80
<b>Percent of Floorspace Cooled</b>								
Not Cooled .....	0.50	0.66	0.56	0.63	0.75	1.19	0.30	14.32
1 to 50 .....	0.72	0.72	0.61	0.69	0.90	1.40	0.64	10.51
51 to 99 .....	1.40	1.40	1.44	1.31	1.36	1.87	Q	13.98
100 .....	1.46	1.46	1.42	1.41	1.21	2.11	Q	11.05
<b>Heating Equipment (more than one may apply)</b>								
Heat Pumps .....	1.25	1.25	1.27	1.22	1.11	2.29	Q	13.34
Furnaces .....	0.94	0.94	1.13	0.91	0.95	Q	Q	8.55
Individual Space Heaters .....	1.00	1.00	1.08	0.95	0.99	1.82	Q	9.52
District Heat .....	1.72	1.72	Q	Q	Q	1.76	Q	13.53
Boilers .....	1.10	1.10	Q	1.15	1.08	Q	Q	9.90
Packaged Heating Units .....	1.25	1.25	1.32	1.21	Q	2.10	Q	12.63
Other .....	2.27	2.27	1.81	2.63	Q	Q	Q	35.23
<b>Heating Distribution Equipment (more than one may apply)</b>								
Radiators or Baseboards .....	1.12	1.12	1.20	1.00	1.03	1.71	Q	11.32
Ducts for Heating .....	1.18	1.18	1.18	1.12	1.03	1.93	Q	8.24
VAV System Used .....	1.42	1.42	1.19	1.38	1.28	2.03	Q	18.99
Individual Space Heaters .....	1.00	1.00	1.08	0.95	0.99	1.82	Q	9.52
Fan Coil Units or Other .....	1.32	1.32	1.44	1.18	1.32	1.78	Q	13.77
<b>Cooling Equipment (more than one may apply)</b>								
Residential-Type Central A/C .....	1.09	1.08	1.15	1.02	1.09	1.66	Q	13.18
Heat Pumps .....	1.28	1.28	1.30	1.24	1.04	2.41	Q	13.28
Individual A/C .....	0.98	0.99	1.03	0.89	1.04	1.65	0.76	13.80
District Chilled Water .....	1.56	1.55	1.58	Q	Q	1.74	Q	23.18
Central Chillers .....	1.43	1.45	1.06	1.48	1.59	2.00	Q	15.57
Packaged A/C Units .....	1.26	1.25	1.36	1.20	1.16	1.80	1.28	9.27
Swamp Coolers .....	1.36	1.38	1.20	1.46	Q	Q	Q	20.63
Other .....	0.93	0.93	Q	Q	Q	Q	Q	79.61
<b>Cooling Distribution Equipment (more than one may apply)</b>								
Ducts for Cooling .....	1.21	1.21	1.24	1.14	1.13	1.89	1.20	8.82
VAV System Used .....	1.48	1.48	1.35	1.43	1.27	1.95	Q	15.13
Individual A/C .....	0.98	0.99	1.03	0.89	1.04	1.65	0.76	13.80
Fan Coil Units or Other .....	1.34	1.36	1.01	1.38	1.38	1.78	Q	15.60
<b>Water-Heating Equipment (more than one may apply)</b>								
Centralized System .....	1.24	1.24	1.25	1.16	1.11	1.87	Q	10.38
Distributed System .....	1.08	1.07	1.12	1.02	0.99	1.58	1.99	11.90

See footnotes at end of table.

**Table 3.6. Gross Expenditures Intensities for Sum of Major Fuels by Main Heating Fuel, 1992 (Continued)**

(Dollars per Square Foot)

Building Characteristics	Buildings with Heat						Buildings Without Heat	RSE Row Factor
	All Buildings	All Heated Buildings	Main Heat					
			Electricity	Natural Gas	Fuel Oil	District Heat		
RSE Column Factor:	0.6	0.6	1.1	0.7	1.2	1.4	2.3	
<b>Energy Conservation Features (more than one may apply)</b>								
Any Conservation Features .....	1.10	1.13	1.18	1.07	1.01	1.77	0.61	7.38
Building Shell .....	1.11	1.13	1.19	1.07	1.01	1.79	0.63	7.61
HVAC .....	1.21	1.21	1.25	1.15	1.05	1.78	1.13	8.23
Lighting .....	1.28	1.29	1.27	1.21	1.10	2.00	0.89	12.13
Other .....	1.16	1.19	1.24	1.12	1.21	1.55	Q	12.87
<b>Energy Management Practices (more than one may apply)</b>								
Energy Management and Control System .....	1.38	1.38	1.19	1.36	1.44	1.77	Q	14.89
Demand-Side Management <sup>1</sup> Participation .....	1.37	1.37	1.41	1.30	1.19	1.75	Q	10.02
Energy Audit .....	1.31	1.33	1.35	1.25	1.15	1.89	Q	11.57
Building Energy Manager .....	1.37	1.37	1.46	1.50	Q	1.37	Q	22.80

<sup>1</sup> 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. • 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.

**Table 3.7. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels, 1992**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)				RSE Row Factor
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
	1.0	1.0	1.2	1.3	1.0	0.9	0.9	0.9	0.9	0.7	1.2	1.1	
<b>All Buildings</b> .....	1,090	1,578	1,825	998	13,400	17,280	24,577	12,619	81.3	91.3	74.3	79.1	7.50
<b>Building Floorspace (square feet)</b>													
1,001 to 5,000 .....	104	180	287	132	1,074	1,889	3,155	1,208	97.0	95.2	90.8	109.1	11.87
5,001 to 10,000 .....	101	148	164	142	1,337	1,763	2,723	1,376	75.5	83.7	60.4	103.4	11.59
10,001 to 25,000 .....	126	238	328	174	1,663	2,689	3,782	2,241	75.8	88.3	86.6	77.4	13.91
25,001 to 50,000 .....	161	188	298	146	1,976	2,353	3,696	2,043	81.7	79.8	80.7	71.5	17.88
50,001 to 100,000 .....	161	175	179	127	1,752	2,097	2,842	1,371	92.2	83.4	63.0	92.6	15.09
100,001 to 200,000 .....	104	203	191	143	1,598	2,048	3,720	2,311	64.9	99.1	51.4	61.7	16.53
200,001 to 500,000 .....	153	288	168	102	1,696	2,839	1,968	1,386	90.4	101.3	85.1	73.7	19.61
Over 500,000 .....	178	160	210	32	2,303	1,601	2,691	683	77.5	99.6	Q	47.5	30.19
<b>Principal Building Activity</b>													
Education .....	171	195	156	114	1,968	2,386	2,620	1,496	87.1	81.6	59.7	76.4	12.89
Food Sales .....	Q	35	42	43	Q	182	245	209	Q	193.8	173.1	204.4	22.82
Food Service .....	58	93	86	70	445	432	407	208	129.7	215.7	211.8	338.7	20.10
Health Care .....	86	141	136	40	386	487	597	292	223.8	289.8	226.8	136.1	21.91
Lodging .....	102	88	148	125	616	577	1,043	654	165.8	152.2	142.0	190.5	25.26
Mercantile and Service .....	178	254	304	157	2,798	3,156	4,233	2,214	63.5	80.6	71.7	70.7	16.03
Office .....	224	299	482	243	2,525	2,804	4,152	2,838	88.8	106.5	116.0	85.5	13.52
Parking Garage .....	Q	Q	7	Q	Q	Q	272	Q	Q	Q	Q	31.9	39.09
Public Assembly .....	58	74	119	59	777	861	2,269	649	74.5	85.6	Q	91.0	22.03
Public Order and Safety .....	31	Q	23	Q	269	Q	238	Q	116.7	Q	98.2	Q	28.96
Religious Worship .....	16	39	34	19	452	1,137	1,366	792	35.1	34.5	25.1	24.5	19.80
Warehouse and Storage .....	89	214	175	49	1,763	3,108	4,964	1,649	50.3	69.0	35.2	29.6	21.86
Other .....	24	43	Q	30	199	301	383	248	121.9	142.6	227.8	121.3	32.20
Vacant .....	Q	42	24	37	708	1,043	1,604	1,041	38.7	40.6	15.2	35.8	28.25
<b>Year Constructed</b>													
1899 or Before .....	49	41	Q	Q	676	720	167	Q	71.9	56.6	Q	Q	23.41
1900 to 1919 .....	79	75	26	33	1,052	1,246	788	522	75.3	60.5	33.1	62.6	27.38
1920 to 1945 .....	172	240	187	67	2,655	2,296	2,646	1,115	64.8	104.5	70.8	59.9	19.18
1946 to 1959 .....	148	215	291	146	2,070	2,629	3,898	1,825	71.6	81.9	74.6	80.0	16.54
1960 to 1969 .....	243	305	381	196	2,485	2,652	4,914	2,562	97.9	115.0	77.5	76.3	16.14
1970 to 1979 .....	198	348	450	264	2,123	4,086	4,940	2,865	93.5	85.2	91.2	92.2	13.97
1980 to 1989 .....	172	304	418	239	2,053	2,982	6,317	2,934	83.8	101.9	66.2	81.5	17.38
1990 to 1992 .....	28	49	55	41	286	670	906	639	96.7	73.7	61.0	64.0	22.39
<b>Climate Zone: 45-Year Average</b>													
Fewer than 2,000 CDD and --													
More than 7,000 HDD .....	Q	350	Q	59	Q	4,081	Q	Q	80.8	85.8	Q	84.3	18.30
5,500-7,000 HDD .....	562	919	Q	160	6,924	9,401	Q	1,699	81.2	97.8	Q	94.3	13.13
4,000-5,499 HDD .....	460	308	396	110	5,634	3,799	4,981	1,748	81.6	81.2	79.6	63.1	14.00
Fewer than 4,000 HDD .....	Q	Q	654	524	Q	Q	8,226	7,026	Q	Q	79.5	74.6	15.48
More than 2,000 CDD and --													
Fewer than 4,000 HDD .....	Q	Q	775	144	Q	Q	11,371	1,446	Q	Q	68.2	Q	18.57
<b>Energy Sources (more than one may apply)</b>													
Electricity .....	1,090	1,577	1,825	998	13,235	16,902	23,972	12,415	82.3	93.3	76.1	80.4	7.12
Natural Gas .....	756	1,346	1,317	845	8,559	13,775	13,361	9,299	88.4	97.7	98.5	90.9	9.26
Fuel Oil .....	532	344	423	142	5,535	2,543	3,579	1,557	96.0	135.4	118.1	91.1	13.99
District Heat .....	218	336	162	124	1,559	1,884	890	912	139.7	178.1	182.4	135.8	21.74
District Chilled Water .....	39	97	98	58	302	532	659	421	128.5	182.0	149.0	138.3	31.29
Propane .....	84	33	82	20	1,041	579	1,514	260	81.0	57.2	54.3	78.9	23.92
Any Other .....	22	12	13	20	444	254	446	407	50.2	48.2	28.8	Q	31.54
<b>Energy End Uses (more than one may apply)</b>													
Heated Buildings .....	1,084	1,557	1,773	950	12,858	16,303	21,659	11,176	84.3	95.5	81.8	85.0	7.69
Buildings with A/C .....	973	1,424	1,743	893	11,158	14,383	21,205	10,296	87.2	99.0	82.2	86.7	8.03
Buildings with Water Heating .....	1,062	1,539	1,700	958	12,410	15,460	19,592	11,017	85.6	99.5	86.8	87.0	7.84
Buildings with Cooking .....	589	684	707	403	5,740	5,800	7,768	3,757	102.5	117.9	91.0	107.2	11.53
Buildings with Manufacturing .....	84	93	138	41	756	895	1,039	484	111.4	103.4	133.2	83.8	30.05

See footnotes at end of table.

**Table 3.7. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels, 1992 (Continued)**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)				RSE Row Factor
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
	1.0	1.0	1.2	1.3	1.0	0.9	0.9	0.9	0.9	0.7	1.2	1.1	
<b>Workers (main shift)</b>													
Less than 5 .....	127	231	283	159	2,708	4,747	7,676	2,813	46.8	48.6	36.8	56.5	13.48
5 to 9 .....	98	191	245	87	1,328	1,867	3,013	1,316	74.0	102.4	81.4	66.4	15.54
10 to 19 .....	118	147	229	140	1,367	1,871	3,266	1,573	86.6	78.8	70.1	89.0	18.15
20 to 49 .....	187	254	377	198	2,014	2,521	3,818	2,204	92.7	100.9	98.8	89.6	14.42
50 to 99 .....	150	199	203	135	1,899	2,002	2,286	1,577	78.8	99.5	89.0	85.7	17.21
100 or More .....	410	555	487	279	4,085	4,272	4,519	3,135	100.4	129.9	107.9	89.0	13.70
<b>Weekly Operating Hours</b>													
39 or Fewer .....	64	97	83	34	1,400	2,454	3,278	1,114	45.7	39.4	25.3	31.0	16.03
40 to 48 .....	166	277	407	161	2,272	3,446	6,543	2,738	72.9	80.5	62.2	58.8	12.34
49 to 60 .....	167	250	320	197	2,622	3,474	5,002	2,948	63.7	71.9	64.1	66.9	14.10
61 to 84 .....	190	314	284	175	2,578	3,212	3,795	2,477	73.5	97.6	74.8	70.6	15.58
85 to 167 .....	221	226	207	185	2,486	2,217	1,938	1,826	88.8	101.9	106.9	101.2	15.21
Open Continuously .....	283	415	524	245	2,042	2,477	4,021	1,517	138.4	167.4	130.3	161.8	18.62
<b>Ownership and Occupancy</b>													
Nongovernment Owned .....	771	1,169	1,420	784	9,978	13,127	19,480	10,167	77.2	89.1	72.9	77.1	8.09
Owner Occupied .....	636	989	1,089	598	7,311	10,421	13,503	7,168	87.0	94.9	80.7	83.5	8.08
Single Establishment .....	507	804	959	481	5,261	7,996	11,466	5,269	96.4	100.5	83.6	91.3	10.01
Multiple Establishment .....	129	185	131	117	2,050	2,424	2,038	1,899	62.8	76.5	64.1	61.8	16.97
Nonowner Occupied .....	132	173	318	171	2,350	2,211	5,177	2,534	56.3	78.3	61.4	67.5	20.72
Single Establishment .....	58	75	203	71	1,025	886	2,586	1,068	56.4	84.8	Q	66.7	29.91
Multiple Establishment .....	75	98	115	100	1,326	1,325	2,591	1,466	56.2	73.9	44.2	68.2	19.57
Vacant .....	Q	7	Q	Q	316	495	800	465	Q	13.7	Q	Q	32.80
Government Owned .....	319	409	405	214	3,422	4,153	5,097	2,452	93.2	98.4	79.5	87.3	14.48
<b>Predominant Exterior Wall Material</b>													
Masonry .....	836	1,167	1,321	693	9,981	12,914	17,174	8,517	83.7	90.3	76.9	81.3	8.73
Siding or Shingles .....	60	73	61	68	1,008	1,017	1,052	796	59.7	71.9	58.1	84.8	16.17
Metal Panels .....	54	125	269	57	930	1,774	3,900	789	58.5	70.3	68.9	72.3	19.64
Concrete Panels .....	93	91	93	131	1,003	741	1,461	1,755	Q	122.4	63.7	74.4	23.38
Window Glass .....	35	Q	59	27	372	524	709	423	93.6	141.3	83.5	63.4	28.80
Other .....	11	Q	Q	Q	106	310	281	Q	106.8	155.7	Q	Q	34.85
<b>Predominant Roof Material</b>													
Built-Up .....	417	630	971	575	4,889	6,375	11,653	7,341	85.3	98.9	83.3	78.4	11.05
Shingles (Not Wood) .....	154	235	221	123	2,434	3,213	3,168	1,755	63.4	73.2	69.8	70.3	14.16
Metal Surfacing .....	37	154	292	66	853	2,064	5,098	1,004	43.5	74.8	57.3	66.0	17.78
Synthetic or Rubber .....	379	468	214	105	3,757	4,318	2,615	1,012	100.9	108.4	81.8	103.3	13.14
Other .....	102	90	127	128	1,466	1,311	2,045	1,507	69.6	68.6	62.3	85.2	21.80
<b>Percent Window Glass</b>													
25 or Less .....	667	1,129	1,450	658	8,988	13,026	20,229	9,113	74.3	86.6	71.7	72.2	8.92
26 to 50 .....	320	285	245	265	3,478	2,852	2,872	2,613	91.9	100.0	85.2	101.3	13.59
51 to 75 .....	76	92	89	55	701	932	943	630	108.1	98.5	94.4	87.7	21.26
76 to 100 .....	27	Q	42	20	232	470	534	263	115.1	153.6	77.9	76.3	25.61
<b>Building Shape</b>													
Square .....	53	95	76	56	638	870	1,172	974	83.8	109.3	64.4	57.6	20.80
Rectangle .....	482	873	1,121	611	6,638	10,207	14,942	7,446	72.7	85.5	75.0	82.1	9.57
Right Angle .....	105	117	99	78	1,533	1,452	1,987	1,099	68.3	80.7	49.9	70.9	15.79
Other .....	449	492	530	253	4,591	4,751	6,476	3,100	97.8	103.6	81.8	81.5	13.61
<b>Space-Heating Energy Sources (more than one may apply)</b>													
Electricity .....	346	404	771	415	4,505	4,673	11,185	5,273	76.7	86.4	68.9	78.8	12.60
Natural Gas .....	561	1,153	1,103	636	6,871	12,289	11,563	7,744	81.6	93.8	95.4	82.2	9.78
Fuel Oil .....	402	173	198	Q	4,228	1,225	1,618	Q	95.2	141.4	122.2	Q	18.19
District Heat .....	217	307	151	119	1,555	1,858	849	869	139.6	165.1	178.0	136.8	19.67
Propane .....	23	12	21	Q	329	355	791	Q	69.6	33.7	27.1	Q	26.61
Wood .....	Q	3	4	Q	Q	140	168	Q	Q	21.5	23.6	Q	35.12
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.



**Table 3.7. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels, 1992 (Continued)**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)				RSE Row Factor
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
	1.0	1.0	1.2	1.3	1.0	0.9	0.9	0.9	0.9	0.7	1.2	1.1	
<b>Cooling Energy Sources (more than one may apply)</b>													
Electricity .....	931	1,302	1,671	818	10,729	13,544	20,609	9,747	86.8	96.2	81.1	83.9	8.08
Natural Gas .....	37	92	Q	60	320	512	420	654	115.7	180.4	Q	92.1	30.70
District Chilled Water .....	39	97	98	58	302	532	659	421	128.5	182.0	149.0	138.3	31.29
<b>Water-Heating Energy Sources (more than one may apply)</b>													
Electricity .....	281	414	809	296	4,366	5,643	11,302	4,171	64.3	73.3	71.6	70.9	12.43
Natural Gas .....	515	976	853	664	5,607	9,150	8,476	6,717	91.8	106.6	100.6	98.8	10.38
Fuel Oil .....	202	Q	Q	Q	2,157	Q	169	Q	93.4	Q	126.9	Q	22.95
District Heat .....	148	234	96	65	990	1,271	449	582	149.2	184.1	213.6	111.7	23.90
Propane .....	Q	Q	8	Q	225	Q	198	Q	Q	Q	42.3	Q	38.45
<b>Cooking Energy Sources (more than one may apply)</b>													
Electricity .....	295	347	360	198	2,963	2,832	4,287	2,101	99.6	122.6	84.0	94.1	15.60
Natural Gas .....	408	525	447	316	3,891	4,388	4,296	2,628	104.9	119.7	104.1	120.2	13.47
Propane .....	38	Q	28	Q	510	Q	377	Q	73.6	Q	75.3	Q	27.40
<b>Percent of Floorspace Heated</b>													
Not Heated .....	5	Q	Q	48	542	978	2,918	1,443	9.7	Q	17.9	33.0	29.95
1 to 50 .....	116	88	161	102	2,583	2,177	4,480	2,285	44.9	40.3	36.0	44.6	21.87
51 to 99 .....	198	177	274	235	2,114	2,249	3,107	2,740	93.8	78.7	88.2	85.9	15.85
100 .....	770	1,292	1,337	613	8,161	11,876	14,073	6,151	94.4	108.8	95.0	99.7	7.96
<b>Percent of Floorspace Cooled</b>													
Not Cooled .....	117	154	82	105	2,242	2,898	3,372	2,323	52.1	53.1	24.3	45.2	17.80
1 to 50 .....	413	468	322	145	5,640	6,318	6,482	3,275	73.2	74.1	49.7	44.2	11.90
51 to 99 .....	307	493	388	244	3,049	3,825	4,097	2,902	100.6	128.9	94.7	84.1	13.26
100 .....	253	463	1,033	504	2,469	4,240	10,627	4,118	102.5	109.1	97.2	122.4	12.21
<b>Heating Equipment (more than one may apply)</b>													
Heat Pumps .....	128	110	317	150	1,328	1,324	3,632	1,985	96.1	83.0	87.2	75.4	17.95
Furnaces .....	235	461	452	172	3,268	5,579	4,971	3,092	72.0	82.5	90.9	55.7	12.78
Individual Space Heaters .....	394	509	577	244	4,907	6,187	7,642	3,643	80.3	82.2	75.4	67.0	12.01
District Heat .....	217	312	180	120	1,553	1,869	927	875	139.8	166.8	194.3	137.1	20.11
Boilers .....	523	655	534	267	6,192	6,478	5,404	2,590	84.4	101.2	98.7	103.0	11.85
Packaged Heating Units .....	253	325	471	308	2,890	3,033	6,440	3,637	87.5	107.1	73.2	84.6	14.09
Other .....	24	36	Q	Q	180	205	309	Q	132.3	174.2	Q	Q	32.10
<b>Heating Distribution Equipment (more than one may apply)</b>													
Radiators or Baseboards .....	533	564	170	112	5,615	5,134	1,518	995	95.0	109.8	111.8	112.4	13.98
Ducts for Heating .....	668	1,175	1,463	767	7,503	11,681	17,131	9,107	89.0	100.6	85.4	84.2	8.91
VAV System Used .....	266	426	361	226	2,353	3,368	3,283	2,523	112.9	126.3	110.0	89.4	17.99
Individual Space Heaters .....	394	509	577	244	4,907	6,187	7,642	3,643	80.3	82.2	75.4	67.0	12.01
Fan Coil Units or Other .....	247	341	301	145	2,033	2,857	2,112	1,455	121.6	119.2	142.4	99.6	16.08
<b>Cooling Equipment (more than one may apply)</b>													
Residential-Type Central A/C .....	164	242	402	90	1,508	2,968	3,455	1,091	108.9	81.6	116.2	82.4	15.67
Heat Pumps .....	120	147	324	161	1,286	1,416	3,745	1,959	93.6	103.7	86.6	82.2	17.94
Individual A/C .....	501	441	401	111	5,806	4,723	5,683	1,767	86.3	93.5	70.5	62.6	15.32
District Chilled Water .....	39	114	98	58	302	684	659	421	128.6	166.5	148.9	138.3	32.36
Central Chillers .....	282	426	528	245	2,519	3,163	4,854	2,456	112.1	134.7	108.7	100.0	16.28
Packaged A/C Units .....	542	688	811	472	5,879	6,564	10,058	5,329	92.2	104.8	80.6	88.7	10.10
Swamp Coolers .....	Q	Q	Q	131	Q	Q	335	1,546	Q	Q	Q	84.7	21.88
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.7. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels, 1992 (Continued)**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)				RSE Row Factor
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
	RSE Column Factor:	1.0	1.0	1.2	1.3	1.0	0.9	0.9	0.9	0.9	0.7	1.2	
<b>Cooling Distribution Equipment (more than one may apply)</b>													
Ducts for Cooling .....	738	1,209	1,566	824	8,174	11,757	18,825	8,999	90.3	102.8	83.2	91.6	8.50
VAV System Used .....	279	458	395	259	2,294	3,798	3,697	2,640	121.5	120.6	106.9	98.3	15.83
Individual A/C .....	501	441	401	111	5,806	4,723	5,683	1,767	86.3	93.5	70.5	62.6	15.32
Fan Coil Units or Other .....	171	253	266	126	1,516	1,649	1,828	1,618	112.7	153.7	145.7	78.1	20.28
<b>Water-Heating Equipment (more than one may apply)</b>													
Centralized System .....	719	961	969	536	7,854	9,002	9,298	5,445	91.5	106.8	104.2	98.4	10.83
Distributed System .....	365	642	843	455	4,792	7,009	11,836	5,866	76.2	91.7	71.2	77.6	12.37
<b>Energy Conservation Features (more than one may apply)</b>													
Any Conservation Features .....	1,084	1,538	1,796	993	12,891	16,619	22,659	12,234	84.1	92.5	79.3	81.1	7.54
Building Shell .....	1,065	1,509	1,745	965	12,612	16,031	21,758	11,655	84.5	94.1	80.2	82.8	7.57
HVAC .....	990	1,329	1,510	870	10,840	13,100	16,864	9,477	91.3	101.4	89.5	91.8	7.81
Lighting .....	631	782	805	581	6,727	7,790	8,307	6,628	93.8	100.4	96.9	87.7	10.50
Other .....	176	166	128	82	1,626	1,575	1,757	993	108.1	105.6	72.9	82.6	16.09
<b>Energy Management Practices (more than one may apply)</b>													
Energy Management and Control System .....	269	548	464	291	2,474	4,359	4,506	2,981	108.6	125.6	102.9	97.7	14.50
Demand-Side Management <sup>1</sup> Participation .....	377	373	389	188	3,436	3,279	2,600	1,994	109.8	113.7	149.5	94.1	14.93
Energy Audit .....	398	441	384	256	4,136	3,944	3,810	2,890	96.3	111.9	100.7	88.6	12.24
Building Energy Manager .....	55	70	126	45	340	647	966	359	163.1	108.4	130.9	124.6	27.73

<sup>1</sup> 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.

NF = No applicable RSE row factor.

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. • 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.

**Table 3.8. Expenditures by Census Region for Sum of Major Fuels, 1992**

Building Characteristics	Sum of Major Fuel Expenditures (million dollars)				Sum of Major Fuel Expenditures (dollars)								RSE Row Factor
					per Million Btu				per Square Foot				
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
RSE Column Factor:	1.2	1.3	1.2	1.5	0.6	0.6	0.9	0.6	1.1	1.0	1.2	1.3	
<b>All Buildings</b> .....	16,226	16,957	22,843	15,795	14.89	10.75	12.52	15.83	1.21	0.98	0.93	1.25	6.34
<b>Building Floorspace (square feet)</b>													
1,001 to 5,000 .....	1,903	2,126	4,216	2,314	18.27	11.82	14.71	17.55	1.77	1.13	1.34	1.92	9.45
5,001 to 10,000 .....	1,629	1,618	2,394	2,354	16.14	10.96	14.56	16.54	1.22	0.92	0.88	1.71	10.65
10,001 to 25,000 .....	1,925	2,404	3,372	2,425	15.26	10.12	10.29	13.98	1.16	0.89	0.89	1.08	11.92
25,001 to 50,000 .....	1,971	1,871	3,764	2,258	12.21	9.96	12.61	15.46	1.00	0.79	1.02	1.11	14.43
50,001 to 100,000 .....	2,344	1,883	2,296	1,960	14.52	10.77	12.82	15.44	1.34	0.90	0.81	1.43	13.79
100,001 to 200,000 .....	1,314	2,292	2,518	2,289	12.66	11.30	13.18	16.04	0.82	1.12	0.68	0.99	13.91
200,001 to 500,000 .....	2,152	2,893	1,863	1,548	14.04	10.06	11.12	15.16	1.27	1.02	0.95	1.12	18.18
Over 500,000 .....	2,988	1,870	2,420	646	16.75	11.72	11.51	19.92	1.30	1.17	Q	0.95	21.43
<b>Principal Building Activity</b>													
Education .....	1,860	1,933	1,910	1,687	10.86	9.93	12.20	14.76	0.95	0.81	0.73	1.13	9.93
Food Sales .....	Q	549	720	753	Q	15.54	16.96	17.63	Q	3.01	2.94	3.60	14.14
Food Service .....	992	1,058	1,220	1,011	17.18	11.37	14.15	14.37	2.23	2.45	3.00	4.87	16.26
Health Care .....	943	1,017	1,195	579	10.91	7.20	8.82	14.55	2.44	2.09	2.00	1.98	18.83
Lodging .....	1,030	758	1,837	1,835	10.08	8.63	12.39	14.73	1.67	1.31	1.76	2.81	20.64
Mercantile and Service .....	3,098	3,224	4,130	2,454	17.44	12.68	13.60	15.67	1.11	1.02	0.98	1.11	11.93
Office .....	4,222	3,917	5,670	4,293	18.84	13.12	11.77	17.69	1.67	1.40	1.37	1.51	11.30
Parking Garage .....	Q	Q	Q	Q	Q	13.47	18.45	14.72	Q	Q	Q	Q	17.11
Public Assembly .....	842	794	1,743	785	14.53	10.77	14.62	13.29	1.08	0.92	Q	1.21	13.50
Public Order and Safety .....	424	Q	275	Q	13.51	Q	11.75	Q	1.58	Q	1.15	Q	19.00
Religious Worship .....	167	331	539	262	10.56	8.42	15.71	13.52	0.37	0.29	0.40	0.33	14.02
Warehouse and Storage .....	1,431	1,934	2,409	976	16.13	9.02	13.77	20.00	0.81	0.62	0.49	0.59	14.87
Other .....	366	502	737	Q	15.10	11.70	8.45	11.62	1.84	1.67	1.93	1.41	26.67
Vacant .....	309	318	326	633	11.28	7.50	13.38	16.96	0.44	0.30	0.20	0.61	23.33
<b>Year Constructed</b>													
1899 or Before .....	773	393	Q	Q	15.92	9.64	Q	Q	1.14	0.55	Q	Q	22.55
1900 to 1919 .....	1,160	742	332	282	14.64	9.85	12.73	8.64	1.10	0.60	0.42	0.54	19.08
1920 to 1945 .....	2,224	2,264	2,093	953	12.92	9.43	11.17	14.27	0.84	0.99	0.79	0.86	16.41
1946 to 1959 .....	2,144	2,070	3,351	2,232	14.46	9.61	11.53	15.29	1.04	0.79	0.86	1.22	13.81
1960 to 1969 .....	3,650	3,274	4,483	3,126	15.01	10.73	11.77	15.99	1.47	1.23	0.91	1.22	12.70
1970 to 1979 .....	2,993	3,945	5,426	4,095	15.08	11.34	12.05	15.51	1.41	0.97	1.10	1.43	10.92
1980 to 1989 .....	2,796	3,571	6,233	4,233	16.25	11.75	14.91	17.70	1.36	1.20	0.99	1.44	13.51
1990 to 1992 .....	486	697	796	723	17.55	14.14	14.39	17.66	1.70	1.04	0.88	1.13	18.14
<b>Climate Zone: 45-Year Average</b>													
Fewer than 2,000 CDD and -- More than 7,000 HDD .....	Q	3,321	Q	527	14.09	9.49	Q	8.91	1.14	0.81	Q	0.75	14.47
5,500-7,000 HDD .....	7,687	10,121	Q	1,711	13.68	11.01	Q	10.69	1.11	1.08	Q	1.01	10.48
4,000-5,499 HDD .....	7,581	3,515	4,610	1,292	16.50	11.40	11.63	11.72	1.35	0.93	0.93	0.74	10.56
Fewer than 4,000 HDD .....	Q	Q	7,905	9,495	Q	Q	12.09	18.11	Q	Q	0.96	1.35	10.34
More than 2,000 CDD and -- Fewer than 4,000 HDD .....	Q	Q	10,328	2,770	Q	Q	13.33	19.20	Q	Q	0.91	1.92	15.40
<b>Energy Sources (more than one may apply)</b>													
Electricity .....	16,226	16,954	22,842	15,795	14.89	10.75	12.52	15.83	1.23	1.00	0.95	1.27	5.88
Natural Gas .....	10,916	14,053	14,147	12,670	14.43	10.44	10.74	14.99	1.28	1.02	1.06	1.36	7.24
Fuel Oil .....	7,366	3,240	4,936	2,206	13.86	9.41	11.68	15.55	1.33	1.27	1.38	1.42	11.21
District Heat .....	2,949	3,100	1,522	1,535	13.54	9.24	9.38	12.40	1.89	1.65	1.71	1.68	18.06
District Chilled Water .....	501	884	956	Q	12.89	9.13	9.74	14.19	1.66	1.66	1.45	1.96	21.62
Propane .....	1,320	409	1,429	403	15.65	12.37	17.38	19.69	1.27	0.71	0.94	1.55	18.77
Any Other .....	310	157	211	314	13.94	12.80	16.42	15.87	0.70	0.62	0.47	Q	20.67

See footnotes at end of table.

**Table 3.8. Expenditures by Census Region for Sum of Major Fuels, 1992 (Continued)**

Building Characteristics	Sum of Major Fuel Expenditures (million dollars)				Sum of Major Fuel Expenditures (dollars)								RSE Row Factor
					per Million Btu				per Square Foot				
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
	1.2	1.3	1.2	1.5	0.6	0.6	0.9	0.6	1.1	1.0	1.2	1.3	
RSE Column Factor:													
<b>Energy End Uses (more than one may apply)</b>													
Heated Buildings .....	16,050	16,642	21,911	14,776	14.80	10.69	12.36	15.55	1.25	1.02	1.01	1.32	6.49
Buildings with A/C .....	14,826	15,520	21,715	14,369	15.24	10.90	12.46	16.09	1.33	1.08	1.02	1.40	6.68
Buildings with Water Heating .....	15,722	16,502	20,745	14,957	14.80	10.73	12.20	15.61	1.27	1.07	1.06	1.36	6.61
Buildings with Cooking .....	8,667	7,377	8,883	5,889	14.73	10.79	12.56	14.62	1.51	1.27	1.14	1.57	9.49
Buildings with Manufacturing .....	1,215	728	1,255	538	14.44	7.86	9.07	13.27	1.61	0.81	1.21	1.11	20.93
<b>Workers (main shift)</b>													
Less than 5 .....	2,056	2,426	4,333	2,715	16.24	10.51	15.33	17.10	0.76	0.51	0.56	0.97	9.73
5 to 9 .....	1,429	1,892	2,654	1,450	14.54	9.90	10.82	16.58	1.08	1.01	0.88	1.10	11.61
10 to 19 .....	1,817	1,683	3,135	1,973	15.34	11.41	13.70	14.10	1.33	0.90	0.96	1.25	12.64
20 to 49 .....	2,390	2,445	4,519	3,028	12.80	9.61	11.98	15.33	1.19	0.97	1.18	1.37	11.76
50 to 99 .....	2,084	2,411	2,092	1,967	13.92	12.10	10.28	14.55	1.10	1.20	0.92	1.25	14.11
100 or More .....	6,450	6,101	6,110	4,662	15.73	11.00	12.53	16.71	1.58	1.43	1.35	1.49	10.93
<b>Weekly Operating Hours</b>													
39 or Fewer .....	805	776	1,164	488	12.58	8.03	14.05	14.16	0.57	0.32	0.36	0.44	12.18
40 to 48 .....	2,564	2,995	5,242	2,654	15.47	10.80	12.89	16.48	1.13	0.87	0.80	0.97	10.09
49 to 60 .....	3,062	2,690	3,865	3,062	18.34	10.77	12.06	15.52	1.17	0.77	0.77	1.04	11.12
61 to 84 .....	2,909	4,102	3,628	2,893	15.35	13.08	12.78	16.55	1.13	1.28	0.96	1.17	13.08
85 to 167 .....	3,629	2,568	2,976	2,854	16.43	11.37	14.37	15.44	1.46	1.16	1.54	1.56	11.66
Open Continuously .....	3,258	3,826	5,968	3,844	11.53	9.23	11.39	15.66	1.60	1.54	1.48	2.53	14.48
<b>Ownership and Occupancy</b>													
Nongovernment Owned .....	12,071	13,191	18,195	12,845	15.66	11.28	12.82	16.39	1.21	1.00	0.93	1.26	7.08
Owner Occupied .....	9,490	10,957	13,557	9,709	14.93	11.08	12.45	16.22	1.30	1.05	1.00	1.35	7.46
Single Establishment .....	7,279	8,506	11,582	7,514	14.36	10.58	12.08	15.62	1.38	1.06	1.01	1.43	8.83
Multiple Establishment .....	2,211	2,450	1,975	2,196	17.17	13.21	15.13	18.71	1.08	1.01	0.97	1.16	12.94
Nonowner Occupied .....	2,533	2,163	4,493	2,900	19.14	12.49	14.13	16.95	1.08	0.98	0.87	1.14	14.84
Single Establishment .....	979	778	2,570	1,296	16.94	10.36	12.64	18.20	0.96	0.88	Q	1.21	18.89
Multiple Establishment .....	1,554	1,384	1,923	1,604	20.86	14.13	16.77	16.05	1.17	1.04	0.74	1.09	16.45
Vacant .....	Q	72	145	Q	Q	10.51	Q	Q	Q	0.14	0.18	Q	34.60
Government Owned .....	4,155	3,766	4,648	2,950	13.03	9.22	11.46	13.78	1.21	0.91	0.91	1.20	10.91
<b>Predominant Exterior Wall Material</b>													
Masonry .....	11,789	12,294	16,661	10,652	14.11	10.54	12.61	15.38	1.18	0.95	0.97	1.25	7.23
Siding or Shingles .....	1,040	790	925	1,250	17.29	10.80	15.12	18.52	1.03	0.78	0.88	1.57	14.55
Metal Panels .....	918	1,411	2,654	879	16.85	11.31	9.88	15.41	0.99	0.80	0.68	1.11	15.81
Concrete Panels .....	1,630	900	1,325	1,986	17.48	9.92	14.23	15.21	Q	1.21	0.91	1.13	16.42
Window Glass .....	655	Q	966	591	18.82	15.32	16.32	22.03	1.76	2.16	1.36	1.40	19.01
Other .....	193	427	Q	Q	17.10	8.83	Q	Q	1.83	1.38	Q	Q	20.87
<b>Predominant Roof Material</b>													
Built-Up .....	6,283	6,818	12,196	9,389	15.07	10.82	12.56	16.32	1.29	1.07	1.05	1.28	8.56
Shingles (Not Wood) .....	2,366	2,704	2,914	1,828	15.33	11.50	13.19	14.81	0.97	0.84	0.92	1.04	13.11
Metal Surfacing .....	699	1,614	3,116	999	18.82	10.45	10.67	15.09	0.82	0.78	0.61	1.00	13.68
Synthetic or Rubber .....	5,597	4,740	2,814	1,493	14.77	10.13	13.16	14.27	1.49	1.10	1.08	1.47	10.44
Other .....	1,280	1,081	1,803	2,087	12.54	12.02	14.16	16.25	0.87	0.82	0.88	1.38	16.64
<b>Percent Window Glass</b>													
25 or Less .....	9,804	11,915	17,629	10,561	14.69	10.56	12.16	16.05	1.09	0.91	0.87	1.16	7.26
26 to 50 .....	4,655	2,854	3,410	3,807	14.56	10.01	13.95	14.39	1.34	1.00	1.19	1.46	10.79
51 to 75 .....	1,380	1,061	1,104	1,035	18.20	11.56	12.40	18.72	1.97	1.14	1.17	1.64	14.49
76 to 100 .....	388	Q	700	392	14.51	15.61	16.82	19.51	1.67	2.40	1.31	1.49	17.08

See footnotes at end of table.

**Table 3.8. Expenditures by Census Region for Sum of Major Fuels, 1992 (Continued)**

Building Characteristics	Sum of Major Fuel Expenditures (million dollars)				Sum of Major Fuel Expenditures (dollars)								RSE Row Factor
					per Million Btu				per Square Foot				
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
RSE Column Factor:	1.2	1.3	1.2	1.5	0.6	0.6	0.9	0.6	1.1	1.0	1.2	1.3	
<b>Building Shape</b>													
Square .....	876	878	1,025	1,063	16.39	9.23	13.57	18.95	1.37	1.01	0.87	1.09	15.58
Rectangle .....	7,539	9,757	14,169	9,740	15.63	11.18	12.64	15.94	1.14	0.96	0.95	1.31	7.94
Right Angle .....	1,711	1,260	1,334	1,178	16.35	10.74	13.44	15.13	1.12	0.87	0.67	1.07	12.30
Other .....	6,100	5,062	6,316	3,813	13.58	10.28	11.93	15.09	1.33	1.07	0.98	1.23	11.57
<b>Space-Heating Energy Sources (more than one may apply)</b>													
Electricity .....	5,970	4,704	11,714	7,101	17.27	11.65	15.20	17.09	1.33	1.01	1.05	1.35	9.74
Natural Gas .....	8,173	12,072	11,530	9,310	14.57	10.47	10.45	14.63	1.19	0.98	1.00	1.20	7.70
Fuel Oil .....	5,036	1,300	2,090	Q	12.51	7.51	10.57	Q	1.19	1.06	1.29	Q	13.71
District Heat .....	2,943	2,955	1,427	1,496	13.56	9.64	9.45	12.59	1.89	1.59	1.68	1.72	16.53
Propane .....	528	203	478	Q	23.06	16.92	22.33	Q	1.61	0.57	0.60	Q	19.55
Wood .....	Q	47	71	Q	Q	15.49	17.96	Q	Q	0.33	0.42	Q	25.78
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Energy Sources (more than one may apply)</b>													
Electricity .....	14,131	14,480	21,043	13,424	15.18	11.12	12.59	16.42	1.32	1.07	1.02	1.38	6.83
Natural Gas .....	611	690	Q	938	16.52	7.47	7.70	15.59	1.91	1.35	Q	1.44	23.26
District Chilled Water .....	501	884	956	Q	12.89	9.13	9.74	14.19	1.66	1.66	1.45	1.96	21.62
<b>Water-Heating Energy Sources (more than one may apply)</b>													
Electricity .....	5,129	5,219	11,131	5,028	18.28	12.62	13.76	17.00	1.17	0.93	0.98	1.21	9.94
Natural Gas .....	6,933	9,773	9,453	9,802	13.47	10.02	11.08	14.77	1.24	1.07	1.12	1.46	8.24
Fuel Oil .....	2,446	Q	183	Q	12.14	Q	8.54	Q	1.13	Q	1.08	Q	16.37
District Heat .....	2,085	2,302	812	795	14.12	9.83	8.48	12.23	2.11	1.81	1.81	1.37	20.27
Propane .....	Q	Q	226	Q	Q	Q	26.99	Q	Q	Q	1.14	Q	19.54
<b>Cooking Energy Sources (more than one may apply)</b>													
Electricity .....	4,680	3,962	4,772	3,015	15.86	11.41	13.25	15.25	1.58	1.40	1.11	1.43	12.99
Natural Gas .....	5,812	5,422	5,048	4,368	14.24	10.32	11.29	13.82	1.49	1.24	1.18	1.66	10.83
Propane .....	598	Q	570	Q	15.94	Q	20.08	Q	1.17	Q	1.51	Q	19.54
<b>Percent of Floorspace Heated</b>													
Not Heated .....	176	Q	Q	1,020	33.47	15.20	17.85	21.42	0.32	Q	0.32	0.71	27.34
1 to 50 .....	2,003	1,131	2,156	1,824	17.28	12.91	13.36	17.90	0.78	0.52	0.48	0.80	15.62
51 to 99 .....	3,189	2,080	3,180	3,716	16.08	11.75	11.60	15.79	1.51	0.92	1.02	1.36	12.82
100 .....	10,859	13,430	16,574	9,235	14.10	10.39	12.40	15.06	1.33	1.13	1.18	1.50	7.25
<b>Percent of Floorspace Cooled</b>													
Not Cooled .....	1,400	1,437	1,128	1,426	11.99	9.33	13.79	13.58	0.62	0.50	0.33	0.61	13.95
1 to 50 .....	5,207	4,358	3,943	2,141	12.61	9.30	12.25	14.77	0.92	0.69	0.61	0.65	9.83
51 to 99 .....	5,197	5,619	4,669	3,969	16.95	11.40	12.03	16.26	1.70	1.47	1.14	1.37	11.19
100 .....	4,421	5,543	13,103	8,260	17.47	11.98	12.68	16.39	1.79	1.31	1.23	2.01	9.74
<b>Heating Equipment (more than one may apply)</b>													
Heat Pumps .....	1,877	1,227	4,484	2,766	14.71	11.16	14.17	18.48	1.41	0.93	1.23	1.39	13.88
Furnaces .....	3,870	4,982	4,498	2,603	16.45	10.82	9.96	15.13	1.18	0.89	0.90	0.84	10.28
Individual Space Heaters .....	5,931	5,546	7,250	3,664	15.05	10.91	12.58	15.01	1.21	0.90	0.95	1.01	10.20
District Heat .....	2,943	3,010	1,554	1,500	13.55	9.65	8.63	12.50	1.90	1.61	1.68	1.71	16.76
Boilers .....	6,759	6,366	5,828	3,788	12.93	9.72	10.92	14.20	1.09	0.98	1.08	1.46	9.25
Packaged Heating Units .....	4,287	3,873	6,755	5,109	16.95	11.92	14.33	16.61	1.48	1.28	1.05	1.40	10.46
Other .....	389	505	Q	Q	16.30	14.17	Q	Q	2.16	2.47	Q	Q	22.80

See footnotes at end of table.

**Table 3.8. Expenditures by Census Region for Sum of Major Fuels, 1992 (Continued)**

Building Characteristics	Sum of Major Fuel Expenditures (million dollars)				Sum of Major Fuel Expenditures (dollars)								RSE Row Factor
					per Million Btu				per Square Foot				
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
RSE Column Factor:	1.2	1.3	1.2	1.5	0.6	0.6	0.9	0.6	1.1	1.0	1.2	1.3	
<b>Heating Distribution Equipment (more than one may apply)</b>													
Radiators or Baseboards .....	6,881	4,891	1,597	1,423	12.90	8.68	9.41	12.73	1.23	0.95	1.05	1.43	12.58
Ducts for Heating .....	10,464	12,971	17,851	12,134	15.67	11.04	12.20	15.82	1.39	1.11	1.04	1.33	7.47
VAV System Used .....	3,884	4,644	4,198	3,628	14.62	10.91	11.63	16.08	1.65	1.38	1.28	1.44	14.37
Individual Space Heaters .....	5,931	5,546	7,250	3,664	15.05	10.91	12.58	15.01	1.21	0.90	0.95	1.01	10.20
Fan Coil Units or Other .....	3,042	3,161	2,919	2,010	12.31	9.28	9.70	13.87	1.50	1.11	1.38	1.38	13.05
<b>Cooling Equipment (more than one may apply)</b>													
Residential-Type Central A/C .....	2,134	2,510	3,835	1,313	13.00	10.36	9.55	14.61	1.42	0.85	1.11	1.20	13.23
Heat Pumps .....	1,866	1,401	4,537	2,926	15.50	9.54	13.99	18.17	1.45	0.99	1.21	1.49	13.22
Individual A/C .....	6,960	4,041	5,000	1,702	13.90	9.15	12.48	15.38	1.20	0.86	0.88	0.96	11.28
District Chilled Water .....	501	936	956	Q	12.89	8.22	9.74	14.19	1.66	1.37	1.45	1.96	22.59
Central Chillers .....	4,047	4,654	6,101	3,778	14.33	10.93	11.56	15.39	1.61	1.47	1.26	1.54	12.78
Packaged A/C Units .....	8,375	7,873	10,748	7,935	15.44	11.45	13.25	16.80	1.42	1.20	1.07	1.49	7.90
Swamp Coolers .....	Q	Q	491	1,945	Q	Q	7.55	14.86	Q	Q	1.46	1.26	21.09
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Distribution Equipment (more than one may apply)</b>													
Ducts for Cooling .....	11,565	13,504	19,492	13,246	15.67	11.17	12.45	16.07	1.41	1.15	1.04	1.47	7.15
VAV System Used .....	4,076	5,277	4,721	4,293	14.62	11.52	11.95	16.54	1.78	1.39	1.28	1.63	12.85
Individual A/C .....	6,960	4,041	5,000	1,702	13.90	9.15	12.48	15.38	1.20	0.86	0.88	0.96	11.28
Fan Coil Units or Other .....	2,090	2,129	2,633	1,984	12.24	8.40	9.88	15.70	1.38	1.29	1.44	1.23	14.87
<b>Water-Heating Equipment (more than one may apply)</b>													
Centralized System .....	10,464	9,765	10,947	7,969	14.55	10.16	11.29	14.88	1.33	1.08	1.18	1.46	8.45
Distributed System .....	5,635	7,302	11,346	7,450	15.43	11.37	13.46	16.36	1.18	1.04	0.96	1.27	9.75
<b>Energy Conservation Features (more than one may apply)</b>													
Any Conservation Features .....	16,079	16,639	22,345	15,657	14.83	10.82	12.44	15.77	1.25	1.00	0.99	1.28	6.39
Building Shell .....	15,737	16,249	21,654	15,187	14.77	10.77	12.41	15.74	1.25	1.01	1.00	1.30	6.45
HVAC .....	14,491	14,419	18,343	13,668	14.64	10.85	12.15	15.70	1.34	1.10	1.09	1.44	6.86
Lighting .....	9,366	8,840	10,106	9,303	14.84	11.30	12.56	16.01	1.39	1.13	1.22	1.40	8.99
Other .....	2,248	1,941	1,704	1,028	12.78	11.67	13.31	12.53	1.38	1.23	0.97	1.03	13.69
<b>Energy Management Practices (more than one may apply)</b>													
Energy Management and Control System .....	3,884	6,077	5,347	4,521	14.46	11.10	11.53	15.53	1.57	1.39	1.19	1.52	12.10
Demand-Side Management <sup>1</sup> Participation .....	5,238	3,624	3,796	2,836	13.88	9.72	9.76	15.12	1.52	1.11	1.46	1.42	11.60
Energy Audit .....	5,833	4,694	4,636	4,156	14.65	10.64	12.08	16.24	1.41	1.19	1.22	1.44	10.97
Building Energy Manager .....	622	602	1,221	712	11.23	8.58	9.66	15.92	1.83	0.93	1.26	1.98	21.63

<sup>1</sup> 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.

NF = No applicable RSE row factor.

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. • 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.

**Table 3.9. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels, 1992**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	1.0	1.2	1.3	0.7	0.7	1.2	0.8	1.0	1.2	
<b>All Buildings</b> .....	1,258	2,301	1,932	14,526	28,507	24,844	86.6	80.7	77.7	5.79
<b>Principal Building Activity</b>										
Education .....	44	355	238	599	4,594	3,277	73.8	77.2	72.6	11.33
Food Sales .....	69	69	Q	369	388	Q	185.8	177.4	Q	20.36
Food Service .....	234	72	Q	828	609	Q	282.2	118.0	Q	16.84
Health Care .....	16	48	339	171	306	1,285	92.4	158.4	263.4	19.71
Lodging .....	84	257	122	454	1,543	894	185.7	166.3	136.3	21.46
Mercantile and Service .....	342	361	189	4,191	4,641	3,570	81.5	77.8	53.0	12.03
Office .....	225	556	466	2,266	4,835	5,218	99.4	115.1	89.2	12.07
Parking Garage .....	Q	Q	Q	Q	Q	1,461	Q	Q	Q	23.59
Public Assembly .....	56	131	123	932	1,815	Q	60.4	72.1	Q	15.33
Public Order and Safety .....	21	38	Q	199	344	Q	105.6	109.8	Q	26.11
Religious Worship .....	42	62	Q	1,126	1,951	Q	37.2	31.7	Q	11.81
Warehouse and Storage .....	82	218	227	2,195	4,947	4,343	37.4	44.1	52.3	14.53
Other .....	16	87	Q	202	500	428	78.6	175.0	Q	30.62
Vacant .....	21	43	Q	932	1,907	1,557	22.4	22.4	43.6	22.99
<b>Year Constructed</b>										
1899 or Before .....	50	51	Q	648	923	Q	77.8	55.2	Q	18.79
1900 to 1919 .....	74	82	Q	859	1,343	1,406	86.1	61.0	Q	18.08
1920 to 1945 .....	193	230	243	2,256	3,701	2,756	85.6	62.2	88.1	13.85
1946 to 1959 .....	217	407	177	2,607	4,804	3,010	83.1	84.7	58.7	13.13
1960 to 1969 .....	190	458	478	2,152	5,374	5,086	88.1	85.1	93.9	11.95
1970 to 1979 .....	279	525	457	3,040	5,894	5,079	91.8	89.1	89.9	10.52
1980 to 1989 .....	235	479	419	2,590	5,564	6,133	90.9	86.0	68.3	14.01
1990 to 1992 .....	20	69	84	373	905	1,225	52.8	76.8	68.7	18.20
<b>Census Region and Division</b>										
Northeast .....	205	449	435	2,411	5,392	5,597	85.0	83.3	77.8	9.68
New England .....	64	144	91	627	1,479	1,159	102.0	97.3	78.4	21.66
Middle Atlantic .....	141	305	345	1,784	3,913	4,438	79.1	78.0	77.6	13.11
Midwest .....	328	600	650	3,652	7,140	6,488	89.7	84.1	100.2	8.45
East North Central .....	215	408	386	2,303	4,629	3,781	93.6	88.0	102.2	10.41
West North Central .....	112	193	264	1,350	2,512	2,707	83.0	76.7	97.4	17.82
South .....	451	805	569	5,878	10,320	8,379	76.7	78.0	67.9	12.34
South Atlantic .....	149	349	278	2,151	4,533	3,902	69.1	76.9	71.1	15.47
East South Central .....	120	182	107	1,362	2,631	1,382	88.1	69.1	77.3	17.12
West South Central .....	182	275	184	2,365	3,156	3,095	77.1	87.0	Q	25.32
West .....	274	447	277	2,584	5,655	4,380	106.1	79.0	63.3	12.21
Mountain .....	110	169	69	849	1,872	925	129.6	90.2	74.2	22.26
Pacific .....	164	278	209	1,736	3,783	3,455	94.6	73.4	60.4	14.65
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and --										
More than 7,000 HDD .....	114	210	153	1,286	2,586	1,751	88.7	81.4	87.1	16.42
5,500-7,000 HDD .....	327	705	610	3,478	7,825	6,720	93.9	90.1	90.8	10.48
4,000-5,499 HDD .....	236	493	545	3,124	5,923	7,115	75.7	83.3	76.6	13.95
Fewer than 4,000 HDD .....	293	512	373	3,253	6,456	5,542	90.0	79.2	67.4	15.20
More than 2,000 CDD and --										
Fewer than 4,000 HDD .....	288	381	251	3,384	5,716	3,717	85.0	66.6	67.5	20.76
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	1,257	2,301	1,932	14,039	27,879	24,607	89.5	82.5	78.5	5.61
Natural Gas .....	952	1,814	1,498	8,014	19,091	17,889	118.8	95.0	83.7	6.80
Fuel Oil .....	147	421	873	1,755	3,884	7,576	83.8	108.3	115.2	11.14
District Heat .....	Q	307	510	Q	1,633	3,484	Q	188.2	146.5	16.25
District Chilled Water .....	Q	91	191	Q	536	1,351	Q	168.9	141.5	22.42
Propane .....	48	82	90	1,039	1,369	985	46.6	59.6	91.6	19.14
Any Other .....	20	30	Q	560	514	Q	36.0	57.5	Q	21.99

See footnotes at end of table.

**Table 3.9. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels, 1992 (Continued)**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	1.0	1.2	1.3	0.7	0.7	1.2	0.8	1.0	1.2	
<b>Energy End Uses (more than one may apply)</b>										
Heated Buildings .....	1,220	2,269	1,876	12,743	26,178	23,076	95.8	86.7	81.3	5.89
Buildings with A/C .....	1,080	2,118	1,835	10,595	23,983	22,463	101.9	88.3	81.7	6.01
Buildings with Water Heating .....	1,139	2,234	1,886	10,762	24,849	22,868	105.8	89.9	82.5	5.98
Buildings with Cooking .....	348	768	1,266	1,901	7,589	13,575	183.0	101.2	93.3	8.59
Buildings with Manufacturing .....	30	202	124	342	1,495	1,336	86.6	134.8	93.1	24.43
<b>Workers (main shift)</b>										
Less than 5 .....	521	191	87	8,424	6,070	3,451	61.8	31.5	Q	12.22
5 to 9 .....	343	254	Q	3,166	3,744	Q	108.3	67.8	Q	15.29
10 to 19 .....	233	341	Q	1,984	4,504	Q	117.7	75.6	Q	10.96
20 to 49 .....	151	771	93	877	7,556	2,124	172.7	102.1	43.8	13.39
50 to 99 .....	Q	425	253	76	4,047	3,641	Q	104.9	69.6	14.97
100 or More .....	Q	319	1,412	Q	2,585	13,425	Q	123.4	105.2	8.96
<b>Weekly Operating Hours</b>										
39 or Fewer .....	103	135	Q	3,138	3,909	1,200	33.0	34.4	Q	12.25
40 to 48 .....	319	455	236	4,090	7,245	3,663	78.1	62.9	64.4	10.76
49 to 60 .....	201	455	278	3,040	6,524	4,482	66.1	69.8	62.1	10.57
61 to 84 .....	232	400	330	2,024	4,621	5,417	114.6	86.6	60.9	11.40
85 to 167 .....	245	336	258	1,265	3,306	3,897	193.7	101.7	66.1	12.51
Open Continuously .....	157	519	790	970	2,902	6,185	162.0	178.9	127.7	15.10
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	1,116	1,770	1,258	12,989	22,577	17,186	85.9	78.4	73.2	6.50
Owner Occupied .....	939	1,379	995	9,980	16,423	11,999	94.0	84.0	82.9	6.60
Single Establishment .....	855	1,212	684	8,794	13,878	7,319	97.2	87.3	93.5	7.69
Multiple Establishment .....	84	167	311	1,186	2,545	4,680	70.9	65.8	66.4	13.53
Nonowner Occupied .....	166	373	256	2,423	5,178	4,672	68.7	72.0	54.7	14.42
Single Establishment .....	113	179	115	1,516	1,839	2,210	74.8	97.3	Q	20.90
Multiple Establishment .....	53	194	140	907	3,339	2,463	58.5	58.0	57.0	14.01
Vacant .....	Q	18	Q	586	977	Q	Q	18.4	Q	27.89
Government Owned .....	142	531	674	1,537	5,929	7,658	92.5	89.6	88.0	9.79
<b>Predominant Exterior Wall Material</b>										
Masonry .....	904	1,789	1,323	9,402	21,964	17,220	96.2	81.4	76.8	6.51
Siding or Shingles .....	159	90	Q	2,266	1,361	Q	70.1	66.5	Q	12.73
Metal Panels .....	160	210	135	2,412	2,891	2,089	66.2	72.7	64.5	21.69
Concrete Panels .....	15	120	272	145	1,637	3,179	104.3	73.4	85.7	20.27
Window Glass .....	12	57	126	120	520	1,388	96.3	110.1	90.8	25.56
Other .....	Q	Q	63	180	Q	722	Q	Q	86.7	26.81
<b>Predominant Roof Material</b>										
Built-Up .....	462	1,091	1,040	4,922	12,638	12,698	93.9	86.3	81.9	8.42
Shingles (Not Wood) .....	377	279	Q	4,254	4,723	1,593	88.7	59.2	48.4	12.50
Metal Surfacing .....	196	278	76	3,345	4,071	1,602	58.5	68.2	47.7	18.96
Synthetic or Rubber .....	104	471	591	983	4,722	5,997	106.0	99.7	98.5	10.86
Other .....	118	182	147	1,022	2,352	2,954	115.8	77.5	49.8	16.06
<b>Floors</b>										
One .....	767	759	225	9,165	11,033	5,226	83.7	68.8	43.1	11.80
Two .....	320	671	311	3,629	8,767	5,628	88.0	76.5	55.3	8.87
Three .....	128	446	313	1,310	5,152	3,416	98.0	86.6	91.5	11.62
Four to Nine .....	43	407	662	421	3,420	6,536	101.6	119.0	101.3	16.65
Ten or More .....	Q	Q	421	Q	Q	4,038	Q	Q	104.2	11.22
<b>Percent Window Glass</b>										
25 or Less .....	1,050	1,633	1,221	12,872	21,648	16,837	81.6	75.4	72.5	6.97
26 to 50 .....	172	488	454	1,394	5,109	5,312	123.5	95.5	85.5	10.42
51 to 75 .....	33	133	146	207	1,261	1,738	159.5	105.1	84.2	17.00
76 to 100 .....	Q	47	111	Q	488	958	Q	97.3	115.5	22.05

See footnotes at end of table.



**Table 3.9. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels, 1992 (Continued)**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	1.0	1.2	1.3	0.7	0.7	1.2	0.8	1.0	1.2	
<b>Building Shape</b>										
Square .....	87	92	101	916	1,252	1,485	95.1	73.9	67.7	16.28
Rectangle .....	966	1,374	747	11,316	16,888	11,029	85.3	81.4	67.7	7.21
Right Angle .....	83	209	107	1,019	3,236	1,816	80.9	64.7	59.1	12.91
Other .....	123	625	976	1,275	7,131	10,513	96.1	87.6	92.9	12.53
<b>Energy-Related Space Functions (more than one may apply)</b>										
Commercial Food Preparation .....	347	768	1,224	1,905	7,586	12,676	182.4	101.2	96.6	8.00
Computer Room .....	33	543	963	349	4,418	9,433	95.1	122.9	102.1	13.11
Rooms with Special Ventilation .....	80	299	655	635	2,688	4,718	125.3	111.4	138.9	12.26
Activities with Large Amounts of Hot Water .....	79	431	454	418	2,613	3,831	189.1	164.7	118.5	14.55
<b>Space-Heating Energy Sources (more than one may apply)</b>										
Electricity .....	421	752	762	4,589	10,072	10,975	91.8	74.7	69.4	9.97
Natural Gas .....	793	1,525	1,136	7,288	16,786	14,393	108.8	90.8	78.9	7.11
Fuel Oil .....	135	256	402	1,620	2,764	2,939	83.1	92.7	136.8	13.69
District Heat .....	Q	279	498	116	1,576	3,438	142.2	177.2	144.8	19.00
Propane .....	26	30	Q	766	723	Q	34.5	42.1	Q	21.81
Wood .....	9	Q	Q	355	Q	Q	25.7	Q	Q	22.47
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Energy Sources (more than one may apply)</b>										
Electricity .....	1,041	2,012	1,669	10,305	23,145	21,177	101.0	86.9	78.8	6.18
Natural Gas .....	37	141	111	340	789	777	108.3	178.2	143.1	26.57
District Chilled Water .....	Q	91	191	Q	536	1,351	Q	168.9	141.5	22.42
<b>Water-Heating Energy Sources (more than one may apply)</b>										
Electricity .....	440	780	579	5,353	10,522	9,607	82.2	74.2	60.3	9.42
Natural Gas .....	665	1,344	998	4,838	13,500	11,613	137.5	99.5	85.9	7.60
Fuel Oil .....	37	112	103	476	986	1,007	78.1	113.3	102.3	21.97
District Heat .....	Q	166	374	Q	831	2,439	Q	199.6	153.2	18.07
Propane .....	15	Q	Q	254	287	Q	58.9	Q	Q	32.85
<b>Cooking Energy Sources (more than one may apply)</b>										
Electricity .....	155	358	687	982	3,468	7,733	157.5	103.3	88.8	11.59
Natural Gas .....	248	550	898	1,016	5,031	9,157	244.3	109.4	98.1	9.61
Propane .....	18	31	Q	201	500	Q	89.3	61.9	Q	27.19
<b>Percent of Floorspace Heated</b>										
Not Heated .....	38	32	Q	1,783	2,329	1,769	21.1	13.9	31.6	29.98
1 to 50 .....	122	154	191	2,288	4,520	4,718	53.2	34.0	40.6	15.20
51 to 99 .....	185	384	316	1,959	4,249	4,003	94.4	90.4	78.9	12.30
100 .....	914	1,731	1,368	8,497	17,409	14,355	107.5	99.4	95.3	6.86
<b>Percent of Floorspace Cooled</b>										
Not Cooled .....	178	183	97	3,930	4,524	2,381	45.3	40.4	40.7	15.06
1 to 50 .....	284	634	430	3,622	9,796	8,297	78.5	64.7	51.8	9.25
51 to 99 .....	215	535	682	1,966	5,190	6,717	109.5	103.0	101.5	10.53
100 .....	580	950	723	5,007	8,997	7,450	115.8	105.6	97.0	10.26

See footnotes at end of table.

**Table 3.9. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels, 1992 (Continued)**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	1.0	1.2	1.3	0.7	0.7	1.2	0.8	1.0	1.2	
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	152	240	312	1,442	3,210	3,618	105.4	74.8	86.2	13.88
Furnaces .....	504	618	197	5,595	7,041	4,273	90.1	87.8	46.1	12.16
Individual Space Heaters .....	316	751	656	4,444	8,927	9,008	71.2	84.1	72.8	8.72
District Heat .....	Q	280	527	129	1,583	3,513	Q	177.2	150.0	16.16
Boilers .....	196	819	963	1,611	8,598	10,454	121.8	95.2	92.2	8.91
Packaged Heating Units .....	324	599	434	2,531	7,344	6,125	127.8	81.6	70.9	10.37
Other .....	16	116	Q	85	414	404	190.1	Q	Q	32.55
<b>Heating Distribution Equipment (more than one may apply)</b>										
Radiators or Baseboards .....	134	571	674	1,274	6,130	5,859	104.9	93.1	115.0	9.08
Ducts for Heating .....	935	1,697	1,441	9,140	18,834	17,448	102.3	90.1	82.6	6.44
VAV System Used .....	75	343	860	442	3,110	7,975	169.1	110.4	107.8	14.58
Individual Space Heaters .....	316	751	656	4,444	8,927	9,008	71.2	84.1	72.8	8.72
Fan Coil Units or Other .....	84	407	543	648	3,295	4,513	129.7	123.4	120.2	13.14
<b>Cooling Equipment (more than one may apply)</b>										
Residential-Type Central A/C .....	228	451	218	2,581	4,054	2,385	88.4	111.3	91.5	14.99
Heat Pumps .....	153	277	323	1,450	3,365	3,591	105.8	82.2	89.8	14.82
Individual A/C .....	244	593	617	2,986	7,364	7,629	81.6	80.5	80.8	9.54
District Chilled Water .....	Q	91	208	Q	536	1,503	Q	168.9	138.6	23.12
Central Chillers .....	34	412	1,036	203	3,095	9,692	167.3	133.1	106.9	16.27
Packaged A/C Units .....	512	1,100	901	4,300	12,604	10,925	119.1	87.3	82.5	7.64
Swamp Coolers .....	74	94	60	566	789	730	129.9	119.7	81.8	27.74
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Distribution Equipment (more than one may apply)</b>										
Ducts for Cooling .....	884	1,832	1,621	8,267	20,248	19,240	106.9	90.5	84.3	6.44
VAV System Used .....	72	380	939	449	3,416	8,565	161.1	111.2	109.6	13.59
Individual A/C .....	244	593	617	2,986	7,364	7,629	81.6	80.5	80.8	9.54
Fan Coil Units or Other .....	41	281	495	408	1,956	4,247	100.8	143.7	116.6	19.36
<b>Water-Heating Equipment (more than one may apply)</b>										
Centralized System .....	673	1,344	1,168	6,255	13,447	11,897	107.6	100.0	98.2	9.02
Distributed System .....	482	965	858	4,651	12,194	12,656	103.7	79.2	67.8	8.95
<b>Energy Conservation Features (more than one may apply)</b>										
Any Conservation Features .....	1,221	2,276	1,913	13,141	27,259	24,003	92.9	83.5	79.7	5.83
Building Shell .....	1,189	2,210	1,885	12,780	26,357	22,919	93.0	83.8	82.3	5.88
HVAC .....	819	2,063	1,816	7,591	21,558	21,132	107.8	95.7	86.0	6.15
Lighting .....	397	1,068	1,334	3,368	11,256	14,830	118.0	94.9	90.0	8.29
Other .....	68	218	266	758	2,634	2,559	90.3	82.8	103.8	13.23

See footnotes at end of table.

**Table 3.9. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels, 1992 (Continued)**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	1.0	1.2	1.3	0.7	0.7	1.2	0.8	1.0	1.2	
<b>Energy Management Practices (more than one may apply)</b>										
Energy Management and Control System .....	62	497	1,013	445	4,105	9,770	138.2	121.0	103.7	13.97
Demand-Side Management <sup>1</sup>										
Participation .....	105	460	762	806	3,761	6,743	130.2	122.4	112.9	12.50
Energy Audit .....	173	540	766	1,408	5,631	7,740	123.1	95.9	98.9	9.53
Building Energy Manager .....	14	80	202	135	706	1,470	106.3	113.8	137.4	23.15

<sup>1</sup> 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.

NF = No applicable RSE row factor.

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. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • Site electricity is the amount of electricity delivered to commercial buildings. Primary electricity, which is not included in the "Total of Major Fuels" category, is site electricity plus the conversion losses in the electric generation process at the utility plant. • 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.

**Table 3.10. Consumption and Gross Energy Intensity for Sum of Major Fuels for Mercantile and Office Buildings, 1992**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)				RSE Row Factor
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
	1.1	1.3	1.3	1.1	0.7	1.4	0.7	0.9	0.9	1.2	1.1	0.7	
RSE Column Factor:	1.1	1.3	1.3	1.1	0.7	1.4	0.7	0.9	0.9	1.2	1.1	0.7	
<b>All Buildings</b> .....	632	261	648	600	7,563	4,838	5,745	6,573	83.5	53.9	112.7	91.2	11.36
<b>Building Floorspace (square feet)</b>													
1,001 to 5,000 .....	193	Q	123	Q	2,203	Q	1,018	Q	87.6	Q	121.1	Q	12.97
5,001 to 10,000 .....	149	Q	102	Q	1,987	Q	1,248	Q	74.8	Q	81.6	Q	12.61
10,001 to 25,000 .....	219	Q	220	Q	2,003	Q	1,656	Q	109.1	Q	132.9	Q	21.20
25,001 to 50,000 .....	71	Q	202	Q	1,369	Q	1,823	Q	52.1	Q	110.9	Q	22.89
50,001 to 100,000 .....	Q	71	Q	134	Q	1,268	Q	1,355	Q	56.2	Q	98.8	17.10
100,001 to 200,000 .....	Q	72	Q	145	Q	1,364	Q	1,973	Q	52.7	Q	73.4	21.57
200,001 to 500,000 .....	Q	30	Q	166	Q	646	Q	1,708	Q	46.7	Q	97.2	19.92
Over 500,000 .....	Q	87	Q	155	Q	1,560	Q	1,537	Q	55.9	Q	100.8	25.57
<b>Year Constructed</b>													
1899 or Before .....	8	Q	37	Q	177	Q	331	Q	42.9	Q	111.1	Q	31.34
1900 to 1919 .....	23	Q	32	Q	355	Q	366	Q	63.8	Q	86.5	Q	26.02
1920 to 1945 .....	82	Q	66	53	1,194	Q	699	690	68.7	Q	94.7	76.3	20.68
1946 to 1959 .....	119	11	Q	58	1,543	Q	833	567	76.8	Q	166.8	102.0	28.97
1960 to 1969 .....	133	87	83	140	1,167	1,513	812	1,376	113.6	Q	102.8	101.8	23.40
1970 to 1979 .....	157	62	143	115	1,518	1,090	1,069	1,214	103.1	56.5	133.5	95.1	20.77
1980 to 1989 .....	98	72	136	152	1,450	1,194	1,452	1,866	67.9	60.2	93.4	81.3	16.85
1990 to 1992 .....	13	16	12	40	159	385	184	407	83.0	42.8	65.2	97.4	31.38
<b>Census Region and Division</b>													
Northeast .....	105	73	83	141	1,562	1,236	1,123	1,401	67.0	Q	74.1	100.6	18.35
New England .....	27	Q	32	30	314	Q	350	341	84.6	Q	91.1	89.3	25.42
Middle Atlantic .....	78	65	51	110	1,248	Q	773	1,060	62.5	Q	66.4	104.2	21.51
Midwest .....	186	68	132	167	2,023	1,134	1,300	1,504	91.9	60.3	101.3	111.0	16.61
East North Central .....	124	45	84	133	1,257	603	837	1,187	98.7	74.2	100.0	112.4	19.05
West North Central .....	62	Q	48	33	765	Q	462	317	80.8	Q	103.7	105.5	28.11
South .....	223	81	318	164	2,742	1,491	2,010	2,142	81.4	54.0	158.4	76.3	18.45
South Atlantic .....	60	35	Q	78	951	681	899	1,141	63.5	51.5	Q	68.6	22.67
East South Central .....	77	Q	62	Q	825	Q	497	445	93.6	Q	125.2	90.6	27.02
West South Central .....	Q	28	Q	45	965	507	614	557	88.5	54.3	228.4	80.7	28.89
West .....	118	39	114	128	1,237	977	1,313	1,525	95.3	39.6	87.2	84.1	20.79
Mountain .....	35	Q	38	37	463	Q	345	413	75.7	Q	110.8	Q	31.75
Pacific .....	Q	30	76	91	774	778	968	1,112	107.1	38.8	78.7	81.9	23.10
<b>Climate Zone: 45-Year Average</b>													
Fewer than 2,000 CDD and --													
More than 7,000 HDD .....	65	Q	52	27	769	Q	464	247	85.0	Q	113.1	107.7	28.19
5,500-7,000 HDD .....	174	69	135	213	2,176	1,315	1,470	1,936	80.1	52.1	91.8	110.1	15.82
4,000-5,499 HDD .....	152	83	147	184	1,823	1,343	1,150	2,260	83.5	Q	127.7	81.5	23.01
Fewer than 4,000 HDD .....	163	53	137	117	1,407	894	1,505	1,363	116.0	59.0	91.0	85.6	21.15
More than 2,000 CDD and --													
Fewer than 4,000 HDD .....	77	33	176	59	1,389	855	1,156	766	55.2	38.6	152.4	76.9	22.22
<b>Energy Sources (more than one may apply)</b>													
Electricity .....	631	261	648	600	7,549	4,838	5,745	6,573	83.6	53.9	112.7	91.2	10.58
Natural Gas .....	490	242	470	376	5,007	4,349	3,514	4,332	97.9	55.7	133.7	86.7	13.18
Fuel Oil .....	106	Q	62	294	1,152	Q	681	2,922	92.3	Q	91.1	100.6	18.38
District Heat .....	Q	Q	58	189	Q	Q	252	1,460	Q	Q	231.2	129.6	29.82
District Chilled Water .....	Q	Q	19	53	Q	Q	126	533	Q	Q	147.2	98.8	37.97
Propane .....	21	Q	Q	Q	533	Q	Q	Q	38.9	Q	Q	Q	21.00
Any Other .....	11	Q	Q	Q	327	Q	Q	Q	34.8	Q	Q	Q	24.09

See footnotes at end of table.

**Table 3.10. Consumption and Gross Energy Intensity for Sum of Major Fuels for Mercantile and Office Buildings, 1992 (Continued)**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)				RSE Row Factor
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
	1.1	1.3	1.3	1.1	0.7	1.4	0.7	0.9	0.9	1.2	1.1	0.7	
<b>Energy End Uses (more than one may apply)</b>													
Heated Buildings .....	615	251	644	598	7,250	4,585	5,693	6,562	84.8	54.8	113.2	91.2	11.45
Buildings with A/C .....	525	260	633	599	6,122	4,752	5,627	6,570	85.8	54.6	112.6	91.2	11.72
Buildings with Water Heating .....	573	258	633	598	6,006	4,802	5,530	6,500	95.5	53.7	114.5	92.0	11.73
Buildings with Cooking .....	92	195	30	332	485	3,321	301	3,374	190.6	58.8	98.9	98.4	20.39
Buildings with Manufacturing .....	32	Q	Q	Q	360	Q	Q	Q	89.5	Q	Q	Q	29.02
<b>Workers (main shift)</b>													
Less than 5 .....	171	Q	42	Q	2,938	Q	647	Q	58.3	Q	64.5	Q	11.73
5 to 9 .....	118	Q	151	Q	1,728	Q	930	Q	68.6	Q	162.8	Q	18.33
10 to 19 .....	129	Q	90	Q	1,412	Q	900	Q	91.2	Q	100.4	Q	17.57
20 to 49 .....	140	28	222	Q	1,158	592	1,777	Q	120.9	48.0	125.2	Q	21.61
50 to 99 .....	65	51	77	25	266	980	971	355	246.0	52.2	79.2	69.3	26.89
100 or More .....	Q	169	65	560	Q	2,867	521	5,617	Q	59.0	124.2	99.7	15.17
<b>Weekly Operating Hours</b>													
39 or Fewer .....	11	Q	10	Q	252	Q	150	Q	43.7	Q	63.4	Q	20.95
40 to 48 .....	99	Q	306	145	1,564	Q	3,134	1,501	63.4	Q	97.6	96.4	14.50
49 to 60 .....	203	16	135	188	2,946	353	1,570	2,467	69.1	44.6	86.1	76.3	18.17
61 to 84 .....	167	119	Q	146	1,932	2,736	464	1,584	86.5	43.5	Q	Q	16.66
85 to 167 .....	114	103	21	43	714	1,324	204	548	159.7	Q	103.0	Q	25.76
Open Continuously .....	37	15	Q	76	156	Q	224	402	236.5	Q	Q	187.6	31.79
<b>Ownership and Occupancy</b>													
Nongovernment Owned .....	579	209	594	492	7,120	4,199	5,214	5,451	81.4	49.8	113.8	90.2	11.73
Owner Occupied .....	423	124	452	383	5,217	2,579	3,831	4,017	81.0	48.3	118.0	95.4	13.28
Single Establishment .....	368	64	375	177	4,501	1,191	2,615	1,532	81.8	53.9	143.4	115.4	17.77
Multiple Establishment .....	54	60	77	206	716	1,388	1,216	2,485	75.6	43.4	63.3	83.1	18.69
Nonowner Occupied .....	157	85	142	108	1,903	1,619	1,383	1,434	82.4	52.2	102.5	75.6	19.15
Single Establishment .....	67	Q	Q	26	894	Q	428	294	74.7	Q	Q	88.4	25.92
Multiple Establishment .....	90	79	53	83	1,009	1,483	954	1,140	89.2	53.2	55.0	72.4	19.82
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned .....	52	Q	54	108	443	Q	532	1,122	117.9	Q	101.4	96.2	22.46
<b>Predominant Exterior Wall Material</b>													
Masonry .....	442	197	451	308	5,022	4,013	4,394	3,324	88.0	49.1	102.7	92.7	12.81
Siding or Shingles .....	45	Q	57	Q	669	Q	636	Q	67.9	Q	89.4	Q	18.72
Metal Panels .....	123	Q	Q	28	1,549	Q	297	Q	79.7	Q	Q	Q	23.48
Concrete Panels .....	11	58	12	89	Q	Q	Q	1,064	Q	Q	Q	83.5	26.66
Window Glass .....	Q	Q	20	126	Q	Q	Q	1,184	Q	Q	Q	106.2	27.22
Other .....	Q	Q	Q	40	Q	Q	Q	430	Q	Q	Q	93.6	22.99
<b>Predominant Roof Material</b>													
Built-Up .....	326	133	293	285	3,052	2,846	2,577	2,948	106.7	46.9	113.6	96.6	14.94
Shingles (Not Wood) .....	93	Q	140	Q	1,333	Q	1,370	Q	69.6	Q	102.5	Q	16.95
Metal Surfacing .....	129	Q	Q	19	2,008	Q	436	498	64.2	Q	Q	Q	24.73
Synthetic or Rubber .....	63	97	81	206	748	1,378	830	2,166	84.2	Q	97.3	95.1	17.68
Other .....	21	Q	49	40	422	Q	533	441	49.8	Q	92.1	90.0	25.87
<b>Floors</b>													
One .....	411	88	253	Q	4,503	1,752	2,060	Q	91.3	50.2	122.8	Q	14.54
Two .....	154	128	143	44	1,940	2,127	1,667	718	79.1	60.2	85.5	60.6	18.75
Three .....	56	20	119	70	951	503	1,213	549	59.0	40.2	98.0	127.1	22.92
Four to Nine .....	Q	Q	133	228	Q	Q	801	2,332	Q	Q	165.6	97.7	23.69
Ten or More .....	Q	Q	Q	233	Q	Q	Q	2,623	Q	Q	Q	89.0	18.71
<b>Percent Window Glass</b>													
25 or Less .....	523	177	479	194	6,576	3,456	4,125	2,339	79.5	51.3	116.1	83.1	13.65
26 to 50 .....	98	76	105	165	847	1,251	1,121	1,828	115.6	Q	93.6	90.5	20.96
51 to 75 .....	Q	Q	52	132	Q	Q	327	1,467	Q	Q	160.2	90.2	22.82
76 to 100 .....	Q	Q	Q	108	Q	Q	Q	940	Q	Q	Q	114.4	29.60

See footnotes at end of table.

**Table 3.10. Consumption and Gross Energy Intensity for Sum of Major Fuels for Mercantile and Office Buildings, 1992 (Continued)**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)				RSE Row Factor
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
	1.1	1.3	1.3	1.1	0.7	1.4	0.7	0.9	0.9	1.2	1.1	0.7	
<b>Building Shape</b>													
Square .....	31	Q	31	64	347	Q	362	646	89.8	Q	85.1	99.5	25.95
Rectangle .....	504	128	462	285	5,809	2,115	4,060	3,172	86.7	60.6	113.7	90.0	14.28
Right Angle .....	49	32	51	37	828	723	566	575	59.6	44.9	90.7	Q	22.25
Other .....	47	95	104	213	579	1,837	757	2,180	81.4	51.9	136.8	97.7	20.13
<b>Energy-Related Space Functions (more than one may apply)</b>													
Commercial Food Preparation .....	92	195	30	332	485	3,321	301	3,374	190.6	58.8	98.9	98.4	20.39
Computer Room .....	40	43	169	446	376	716	1,035	4,534	105.8	60.1	163.5	98.4	22.07
Rooms with Special Ventilation .....	47	18	46	123	492	286	388	1,108	95.6	62.7	118.7	110.9	25.31
Activities with Large Amounts of Hot Water .....	134	36	Q	45	483	633	Q	597	276.8	56.2	Q	75.8	33.74
<b>Space-Heating Energy Sources (more than one may apply)</b>													
Electricity .....	212	156	207	257	2,275	2,847	2,574	2,871	93.3	54.7	80.3	89.4	15.29
Natural Gas .....	427	198	442	278	4,721	3,554	3,236	3,292	90.5	55.8	136.5	84.5	14.46
Fuel Oil .....	98	Q	44	70	1,065	Q	547	798	91.6	Q	80.9	88.0	23.83
District Heat .....	Q	Q	53	188	Q	Q	240	1,453	Q	Q	220.6	129.4	28.89
Propane .....	17	Q	Q	Q	455	Q	Q	Q	37.0	Q	Q	Q	21.73
Wood .....	6	Q	Q	Q	196	Q	Q	Q	28.5	Q	Q	Q	30.07
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Energy Sources (more than one may apply)</b>													
Electricity .....	513	255	604	559	5,962	4,706	5,345	6,231	86.0	54.2	112.9	89.7	12.16
Natural Gas .....	19	Q	Q	Q	228	Q	204	Q	83.4	Q	Q	Q	32.14
District Chilled Water .....	Q	Q	19	53	Q	Q	126	533	Q	Q	147.2	98.8	37.97
<b>Water-Heating Energy Sources (more than one may apply)</b>													
Electricity .....	259	132	305	249	2,953	2,550	2,898	2,892	87.7	51.7	105.3	86.1	14.26
Natural Gas .....	325	152	287	221	2,914	2,689	2,339	2,485	111.4	56.4	122.5	88.8	17.73
Fuel Oil .....	31	Q	17	Q	285	Q	235	Q	109.4	Q	74.0	Q	29.11
District Heat .....	Q	Q	Q	143	Q	Q	108	1,138	Q	Q	323.1	125.5	34.66
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooking Energy Sources (more than one may apply)</b>													
Electricity .....	42	137	Q	221	277	2,118	Q	2,141	151.1	64.8	Q	103.1	20.89
Natural Gas .....	Q	152	Q	168	256	2,540	Q	1,702	Q	59.9	Q	98.6	19.09
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Percent of Floorspace Heated</b>													
Not Heated .....	Q	Q	Q	Q	313	Q	Q	Q	Q	Q	Q	Q	42.12
1 to 50 .....	65	Q	20	11	1,449	Q	336	Q	44.6	Q	60.0	Q	24.47
51 to 99 .....	129	39	134	146	1,524	787	1,186	1,844	84.3	49.5	112.9	79.2	23.47
100 .....	422	159	490	441	4,278	2,908	4,171	4,266	98.6	54.7	117.6	103.3	12.30
<b>Percent of Floorspace Cooled</b>													
Not Cooled .....	107	Q	Q	Q	1,441	Q	Q	Q	73.9	Q	Q	Q	20.52
1 to 50 .....	251	Q	52	21	3,257	Q	778	461	77.2	Q	67.1	44.6	18.89
51 to 99 .....	86	139	192	275	1,191	2,141	1,600	3,062	72.4	64.8	119.8	89.7	19.44
100 .....	187	95	390	304	1,674	1,780	3,250	3,048	111.9	53.4	119.9	99.6	15.52
<b>Energy Conservation Features (more than one may apply)</b>													
Any Conservation Features .....	606	261	642	600	7,199	4,838	5,665	6,573	84.2	53.9	113.3	91.2	11.47
Building Shell .....	585	255	637	599	6,956	4,710	5,614	6,572	84.1	54.1	113.4	91.1	11.61
HVAC .....	419	242	549	593	4,582	4,323	4,576	6,428	91.4	56.0	120.1	92.2	12.63
Lighting .....	197	178	269	487	2,284	3,055	2,117	4,925	86.3	58.4	126.8	98.9	15.05
Other .....	31	32	37	50	417	586	390	513	75.1	54.4	93.8	97.4	22.13

See footnotes at end of table.

**Table 3.10. Consumption and Gross Energy Intensity for Sum of Major Fuels for Mercantile and Office Buildings, 1992 (Continued)**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)				RSE Row Factor
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
RSE Column Factor:	1.1	1.3	1.3	1.1	0.7	1.4	0.7	0.9	0.9	1.2	1.1	0.7	
<b>Energy Management Practices (more than one may apply)</b>													
Energy Management and Control System .....	40	78	134	387	228	1,468	733	3,890	176.0	53.0	183.5	99.6	20.98
Demand-Side Management <sup>1</sup> Participation .....	46	89	136	185	397	1,331	699	2,008	116.9	Q	194.5	92.4	20.17
Energy Audit .....	91	55	107	257	843	1,035	1,173	2,619	107.6	53.2	90.9	98.2	17.19
Building Energy Manager .....	Q	Q	Q	45	Q	Q	Q	427	Q	Q	Q	104.4	26.63

<sup>1</sup> 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.

NF = No applicable RSE row factor.

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. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • Small buildings are 50,000 square feet or less. Large buildings are greater than 50,000 square feet. • 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. • 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.

**Table 3.11. Consumption and Gross Energy Intensity for Sum of Major Fuels for Education, Health Care, and Food Sales and Service Buildings, 1992**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)			RSE Row Factor
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
	1.0	1.6	1.1	0.9	1.3	1.0	0.6	0.9	0.9	
RSE Column Factor:	1.0	1.6	1.1	0.9	1.3	1.0	0.6	0.9	0.9	
<b>All Buildings</b> .....	637	403	445	8,470	1,763	2,248	75.2	228.5	197.8	8.79
<b>Building Floorspace (square feet)</b>										
1,001 to 5,000 .....	25	9	199	292	108	771	86.2	85.9	257.6	16.63
5,001 to 10,000 .....	19	Q	104	307	Q	426	62.0	Q	243.3	17.66
10,001 to 25,000 .....	74	Q	73	997	Q	512	74.3	Q	143.2	19.54
25,001 to 50,000 .....	106	Q	51	1,551	Q	407	68.1	Q	124.6	25.41
50,001 to 100,000 .....	175	Q	Q	2,045	Q	Q	85.6	Q	Q	12.00
100,001 to 200,000 .....	120	82	Q	1,641	401	Q	73.0	204.9	Q	19.43
200,001 to 500,000 .....	117	148	Q	1,621	504	Q	71.9	294.8	Q	22.74
Over 500,000 .....	Q	108	Q	Q	381	Q	Q	283.4	Q	12.97
<b>Year Constructed</b>										
1899 or Before .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1900 to 1919 .....	28	Q	Q	441	Q	Q	63.1	Q	Q	37.64
1920 to 1945 .....	82	66	69	1,077	227	351	76.0	289.4	197.6	22.64
1946 to 1959 .....	130	40	59	1,903	152	384	68.5	265.1	153.8	19.97
1960 to 1969 .....	180	110	66	2,405	492	346	74.7	224.0	189.9	18.90
1970 to 1979 .....	152	124	116	1,728	544	520	87.9	228.6	223.4	16.41
1980 to 1989 .....	49	53	99	653	287	376	74.3	185.8	262.0	16.53
1990 to 1992 .....	Q	Q	Q	253	Q	Q	57.1	Q	Q	42.65
<b>Census Region and Division</b>										
Northeast .....	171	86	75	1,968	386	565	87.1	223.8	131.9	15.35
New England .....	54	Q	Q	604	Q	Q	89.7	Q	Q	19.56
Middle Atlantic .....	117	60	55	1,364	241	408	85.9	250.8	135.5	19.33
Midwest .....	195	141	128	2,386	487	614	81.6	289.8	209.2	16.28
East North Central .....	127	89	78	1,534	265	399	82.9	335.8	194.9	16.53
West North Central .....	67	52	51	852	222	215	79.2	234.9	235.7	32.68
South .....	156	136	129	2,620	597	652	59.7	226.8	197.2	15.73
South Atlantic .....	72	Q	60	1,168	307	290	61.8	238.0	208.1	22.17
East South Central .....	35	Q	Q	548	Q	Q	63.9	Q	Q	23.75
West South Central .....	49	Q	50	904	Q	284	54.5	Q	175.2	25.47
West .....	114	40	113	1,496	292	416	76.4	136.1	271.4	19.41
Mountain .....	44	Q	Q	410	Q	Q	107.5	Q	Q	33.04
Pacific .....	70	35	70	1,086	261	250	64.7	135.7	279.2	24.31
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and --										
More than 7,000 HDD .....	56	Q	38	592	Q	166	95.2	Q	226.8	31.94
5,500-7,000 HDD .....	237	151	134	2,614	531	697	90.7	285.3	191.4	13.56
4,000-5,499 HDD .....	143	68	93	2,079	267	547	68.7	252.6	170.9	17.90
Fewer than 4,000 HDD .....	127	118	110	1,849	614	422	68.9	192.0	260.7	22.18
More than 2,000 CDD and --										
Fewer than 4,000 HDD .....	73	38	70	1,336	198	415	54.8	193.1	168.5	21.51
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	637	403	445	8,470	1,763	2,248	75.2	228.5	197.8	8.26
Natural Gas .....	534	367	371	6,856	1,544	1,655	77.9	237.6	224.1	10.11
Fuel Oil .....	158	299	25	1,837	1,093	172	85.9	273.6	147.8	19.96
District Heat .....	79	116	Q	688	403	Q	115.5	287.2	Q	19.85
District Chilled Water .....	29	63	Q	253	227	Q	116.6	279.5	Q	26.14
Propane .....	34	Q	26	470	Q	230	71.5	Q	114.4	29.57
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.



**Table 3.11. Consumption and Gross Energy Intensity for Sum of Major Fuels for Education, Health Care, and Food Sales and Service Buildings, 1992 (Continued)**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)			RSE Row Factor
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
	1.0	1.6	1.1	0.9	1.3	1.0	0.6	0.9	0.9	
<b>Energy End Uses (more than one may apply)</b>										
Heated Buildings .....	635	403	437	8,379	1,746	2,158	75.8	230.6	202.2	8.95
Buildings with A/C .....	562	399	436	7,389	1,747	2,174	76.0	228.2	200.6	8.99
Buildings with Water Heating .....	615	402	443	8,036	1,760	2,228	76.5	228.2	198.8	8.82
Buildings with Cooking .....	420	338	383	5,676	1,289	1,799	74.0	262.1	212.6	10.34
Buildings with Manufacturing .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Workers (main shift)</b>										
Less than 5 .....	22	Q	92	481	Q	648	46.6	Q	141.3	18.05
5 to 9 .....	27	Q	108	448	Q	560	61.2	Q	192.4	22.46
10 to 19 .....	54	Q	122	738	Q	485	73.5	Q	252.0	18.74
20 to 49 .....	182	Q	86	2,533	162	390	72.0	153.4	219.9	21.83
50 to 99 .....	192	Q	Q	2,213	Q	Q	86.5	Q	Q	11.53
100 or More .....	159	348	Q	2,057	1,334	Q	77.2	260.6	Q	15.99
<b>Weekly Operating Hours</b>										
39 or Fewer .....	86	Q	Q	1,221	Q	Q	70.3	Q	Q	21.58
40 to 48 .....	178	11	11	2,761	151	81	64.6	71.1	133.9	21.52
49 to 60 .....	82	14	20	1,447	151	102	56.4	92.1	197.4	23.40
61 to 84 .....	154	Q	101	1,607	Q	483	95.8	Q	209.0	15.77
85 to 167 .....	123	Q	237	1,333	Q	1,235	92.2	Q	191.8	17.67
Open Continuously .....	Q	345	72	Q	1,284	291	Q	268.3	247.4	14.90
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	89	269	426	1,508	1,242	2,091	59.1	216.3	203.6	11.05
Owner Occupied .....	82	259	344	1,402	1,139	1,660	58.7	227.5	207.0	12.03
Single Establishment .....	77	231	328	1,341	1,010	1,561	57.5	229.0	210.1	12.67
Multiple Establishment .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Nonowner Occupied .....	Q	Q	82	Q	Q	431	Q	Q	190.5	20.87
Single Establishment .....	Q	Q	68	Q	Q	340	Q	Q	199.4	23.01
Multiple Establishment .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned .....	548	134	Q	6,961	521	157	78.7	257.7	Q	15.42
<b>Predominant Exterior Wall Material</b>										
Masonry .....	558	369	359	7,714	1,587	1,763	72.3	232.5	203.8	8.91
Siding or Shingles .....	6	Q	60	120	Q	336	51.0	Q	177.4	21.84
Metal Panels .....	11	Q	Q	145	Q	Q	75.2	Q	Q	41.67
Concrete Panels .....	53	Q	Q	379	Q	Q	139.5	Q	Q	37.89
Window Glass .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Predominant Roof Material</b>										
Built-Up .....	309	235	193	4,272	1,062	965	72.3	221.4	199.9	12.36
Shingles (Not Wood) .....	47	Q	102	746	123	597	63.0	174.1	170.9	21.65
Metal Surfacing .....	32	Q	44	403	Q	190	79.1	Q	230.1	25.49
Synthetic or Rubber .....	202	133	46	2,322	507	271	87.0	261.8	170.9	19.57
Other .....	47	Q	60	728	Q	225	64.9	Q	265.1	24.99
<b>Floors</b>										
One .....	172	24	258	2,823	190	1,263	61.1	128.1	204.7	13.18
Two .....	180	Q	114	2,217	152	513	81.1	172.9	221.9	17.84
Three .....	185	20	53	2,200	140	313	83.9	145.8	170.9	19.73
Four to Nine .....	94	239	Q	1,171	925	Q	79.8	258.4	Q	19.38
Ten or More .....	Q	93	Q	Q	356	Q	Q	260.7	Q	19.11

See footnotes at end of table.

**Table 3.11. Consumption and Gross Energy Intensity for Sum of Major Fuels for Education, Health Care, and Food Sales and Service Buildings, 1992 (Continued)**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)			RSE Row Factor
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
	1.0	1.6	1.1	0.9	1.3	1.0	0.6	0.9	0.9	
<b>Percent Window Glass</b>										
25 or Less .....	396	301	352	5,654	1,255	1,818	70.0	240.1	193.4	10.63
26 to 50 .....	193	88	80	2,228	451	376	86.7	196.1	212.0	17.49
51 to 75 .....	37	Q	Q	450	Q	Q	82.2	Q	Q	22.24
76 to 100 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Building Shape</b>										
Square .....	23	Q	36	251	Q	141	89.8	Q	254.0	30.36
Rectangle .....	187	110	367	2,770	656	1,796	67.6	167.3	204.6	12.28
Right Angle .....	54	Q	Q	729	Q	Q	73.4	Q	Q	23.02
Other .....	374	255	29	4,719	953	146	79.2	267.6	200.3	17.08
<b>Energy-Related Space Functions (more than one may apply)</b>										
Commercial Food Preparation .....	420	338	383	5,676	1,294	1,803	74.0	261.5	212.2	10.35
Computer Room .....	177	241	Q	2,202	953	Q	80.5	252.9	Q	13.86
Rooms with Special Ventilation .....	169	285	50	2,176	1,006	230	77.8	283.6	216.8	15.61
Activities with Large Amounts of Hot Water .....	110	141	43	1,380	540	214	79.7	261.5	202.1	20.98
<b>Space-Heating Energy Sources (more than one may apply)</b>										
Electricity .....	147	146	137	2,159	667	692	68.1	218.7	198.5	15.08
Natural Gas .....	456	302	285	5,957	1,223	1,300	76.5	247.1	219.2	11.08
Fuel Oil .....	139	168	21	1,548	584	159	89.6	287.0	129.2	21.01
District Heat .....	74	116	Q	641	403	Q	116.0	287.2	Q	17.63
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Energy Sources (more than one may apply)</b>										
Electricity .....	508	369	417	6,912	1,605	2,090	73.5	230.1	199.5	8.99
Natural Gas .....	Q	Q	Q	487	Q	Q	114.7	Q	Q	42.00
District Chilled Water .....	29	63	Q	253	227	Q	116.6	279.5	Q	26.14
<b>Water-Heating Energy Sources (more than one may apply)</b>										
Electricity .....	128	22	121	2,002	227	773	63.9	98.6	156.3	19.52
Natural Gas .....	425	268	306	5,514	1,150	1,280	77.1	233.4	239.1	11.23
Fuel Oil .....	67	Q	Q	798	Q	Q	83.7	Q	Q	22.16
District Heat .....	49	94	Q	390	314	Q	125.3	299.7	Q	20.88
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooking Energy Sources (more than one may apply)</b>										
Electricity .....	185	165	173	2,579	631	855	71.6	262.1	202.0	12.76
Natural Gas .....	318	265	309	4,179	1,000	1,269	76.0	264.7	243.8	12.78
Propane .....	Q	Q	16	267	Q	154	70.6	Q	101.7	34.28
<b>Percent of Floorspace Heated</b>										
Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50 .....	Q	Q	35	Q	Q	231	Q	Q	152.6	30.89
51 to 99 .....	73	51	101	1,105	253	527	65.8	201.6	191.9	22.33
100 .....	559	345	300	7,143	1,471	1,401	78.2	234.7	214.3	9.89
<b>Percent of Floorspace Cooled</b>										
Not Cooled .....	75	Q	9	1,080	Q	75	69.4	Q	116.3	25.09
1 to 50 .....	215	Q	69	3,008	Q	474	71.5	Q	145.5	15.90
51 to 99 .....	116	150	142	1,538	576	684	75.5	259.9	208.0	15.32
100 .....	231	231	225	2,844	1,081	1,016	81.1	213.6	221.4	14.18

See footnotes at end of table.

**Table 3.11. Consumption and Gross Energy Intensity for Sum of Major Fuels for Education, Health Care, and Food Sales and Service Buildings, 1992 (Continued)**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)			RSE Row Factor
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
RSE Column Factor:	1.0	1.6	1.1	0.9	1.3	1.0	0.6	0.9	0.9	
<b>Energy Conservation Features (more than one may apply)</b>										
Any Conservation Features .....	636	388	439	8,457	1,735	2,160	75.2	223.5	203.5	8.70
Building Shell .....	630	388	430	8,379	1,735	2,107	75.2	223.5	203.9	8.79
HVAC .....	602	381	344	7,719	1,664	1,583	78.0	228.7	217.2	9.36
Lighting .....	279	318	188	3,297	1,304	743	84.7	243.7	252.3	12.25
Other .....	66	85	42	922	368	225	71.1	229.9	186.7	20.81
<b>Energy Management Practices (more than one may apply)</b>										
Energy Management and Control System .....	259	243	63	3,068	943	281	84.3	258.2	223.1	16.54
Demand-Side Management <sup>1</sup> Participation .....	230	225	51	2,560	911	269	89.7	246.7	189.1	17.08
Energy Audit .....	222	199	86	2,810	804	350	79.1	247.4	245.7	16.07
Building Energy Manager .....	40	Q	Q	482	Q	Q	82.9	Q	Q	31.07

<sup>1</sup> 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.

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.12. Consumption and Gross Energy Intensity for Sum of Major Fuels in Older Buildings by Year Constructed, 1992**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)			RSE Row Factor
	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	
	RSE Column Factor:	1.1	1.2	1.1	0.8	1.0	0.9	0.9	1.0	
<b>All Buildings</b> .....	1,798	1,125	1,261	24,462	12,612	14,014	73.5	89.2	90.0	7.45
<b>Building Floorspace (square feet)</b>										
1,001 to 5,000 .....	264	113	166	3,089	1,167	1,536	85.6	96.6	107.9	8.69
5,001 to 10,000 .....	270	77	113	3,281	986	1,505	82.2	77.9	75.4	12.70
10,001 to 25,000 .....	303	197	208	4,082	1,892	1,902	74.3	103.9	109.3	15.16
25,001 to 50,000 .....	298	117	167	4,012	1,856	2,216	74.2	62.8	75.2	16.66
50,001 to 100,000 .....	169	144	150	2,676	1,625	1,776	63.2	88.8	84.7	14.68
100,001 to 200,000 .....	216	149	115	3,360	2,306	1,673	64.3	64.4	68.6	17.22
200,001 to 500,000 .....	131	176	225	2,260	1,444	1,988	58.1	122.2	113.0	21.10
Over 500,000 .....	147	153	117	1,702	1,335	1,418	86.1	Q	82.7	29.12
<b>Principal Building Activity</b>										
Education .....	242	180	152	3,431	2,405	1,728	70.6	74.7	87.9	12.28
Food Sales .....	35	Q	33	246	Q	155	140.5	Q	213.3	28.15
Food Service .....	126	38	83	734	187	365	171.8	203.1	227.7	21.66
Health Care .....	109	110	124	397	492	544	273.3	224.0	228.6	22.50
Lodging .....	152	69	76	934	482	579	162.2	144.2	131.1	20.36
Mercantile and Service .....	254	220	218	3,925	2,680	2,607	64.8	82.0	83.7	15.39
Office .....	426	224	258	3,941	2,187	2,283	108.2	102.2	113.1	17.38
Parking Garage .....	Q	Q	Q	Q	Q	674	Q	Q	Q	46.65
Public Assembly .....	69	44	103	1,148	552	1,096	60.5	80.2	94.0	18.11
Public Order and Safety .....	21	Q	14	248	Q	168	86.0	Q	85.3	32.51
Religious Worship .....	64	17	16	2,143	628	505	29.9	27.6	31.6	18.08
Warehouse and Storage .....	140	119	99	4,051	1,815	2,397	34.4	65.4	41.1	18.86
Other .....	86	33	Q	497	184	210	173.7	180.0	145.0	34.26
Vacant .....	69	Q	28	2,545	431	702	27.2	17.6	39.6	28.73
<b>Census Region and Division</b>										
Northeast .....	448	243	198	6,453	2,485	2,123	69.5	97.9	93.5	15.10
New England .....	120	44	78	1,433	436	634	83.8	100.0	123.4	22.11
Middle Atlantic .....	328	200	120	5,020	2,048	1,490	65.4	97.4	80.7	20.11
Midwest .....	572	305	348	6,890	2,652	4,086	82.9	115.0	85.2	11.76
East North Central .....	396	203	203	4,690	1,861	2,350	84.5	109.2	86.3	12.83
West North Central .....	175	102	145	2,201	790	1,736	79.7	128.8	83.6	22.59
South .....	520	381	450	7,500	4,914	4,940	69.3	77.5	91.2	14.86
South Atlantic .....	238	204	178	2,576	2,667	2,267	92.4	76.4	78.4	21.20
East South Central .....	112	62	106	1,740	907	1,195	64.4	68.4	88.6	19.25
West South Central .....	170	115	167	3,185	1,340	1,478	53.4	86.0	112.9	27.22
West .....	258	196	264	3,619	2,562	2,865	71.4	76.3	92.2	14.57
Mountain .....	108	56	72	1,106	670	699	97.6	83.3	103.0	22.23
Pacific .....	150	140	192	2,513	1,892	2,166	59.8	73.9	88.7	18.65
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and --										
More than 7,000 HDD .....	154	107	137	2,228	842	1,531	69.1	126.5	89.2	19.19
5,500-7,000 HDD .....	644	307	339	7,981	2,815	3,619	80.7	109.0	93.5	12.76
4,000-5,499 HDD .....	525	278	220	6,680	3,363	2,825	78.6	82.6	77.9	15.44
Fewer than 4,000 HDD .....	230	306	336	4,236	2,990	3,656	54.3	102.3	91.9	19.22
More than 2,000 CDD and --										
Fewer than 4,000 HDD .....	245	128	229	3,337	2,602	2,382	73.4	49.1	96.3	21.47
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	1,798	1,125	1,261	23,642	12,473	13,779	76.1	90.2	91.5	7.22
Natural Gas .....	1,444	877	1,007	17,059	8,871	9,217	84.7	98.8	109.2	9.19
Fuel Oil .....	461	288	340	4,503	2,363	2,735	102.3	121.7	124.3	15.44
District Heat .....	295	232	131	1,967	1,419	976	150.0	163.2	134.6	21.07
District Chilled Water .....	77	75	62	652	375	480	117.5	200.5	128.3	27.43
Propane .....	71	36	63	943	642	786	75.0	56.2	79.7	26.17
Any Other .....	23	11	14	733	Q	268	31.5	Q	53.5	25.08

See footnotes at end of table.

**Table 3.12. Consumption and Gross Energy Intensity for Sum of Major Fuels in Older Buildings by Year Constructed, 1992 (Continued)**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)			RSE Row Factor
	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	
RSE Column Factor:	1.1	1.2	1.1	0.8	1.0	0.9	0.9	1.0	1.0	
<b>Energy End Uses (more than one may apply)</b>										
Heated Buildings .....	1,762	1,084	1,240	22,055	11,548	12,814	79.9	93.9	96.7	7.46
Buildings with A/C .....	1,552	1,015	1,210	18,912	10,601	12,286	82.0	95.7	98.5	7.87
Buildings with Water Heating .....	1,699	1,091	1,214	20,372	11,006	12,369	83.4	99.2	98.1	7.66
Buildings with Cooking .....	657	539	611	6,903	4,920	5,071	95.2	109.5	120.4	11.04
Buildings with Manufacturing .....	144	53	78	1,478	394	652	97.4	134.9	120.0	24.03
<b>Workers (main shift)</b>										
Less than 5 .....	305	126	162	7,661	2,807	3,165	39.9	44.8	51.1	10.41
5 to 9 .....	233	83	173	3,343	1,227	1,577	69.7	67.3	109.7	15.42
10 to 19 .....	232	102	165	3,323	1,211	1,812	69.9	84.6	91.3	17.00
20 to 49 .....	420	204	183	3,815	2,180	2,088	110.1	93.7	87.5	14.91
50 to 99 .....	223	184	129	2,890	1,685	1,424	77.1	109.2	90.4	18.87
100 or More .....	385	426	449	3,430	3,502	3,949	112.2	121.6	113.8	15.44
<b>Weekly Operating Hours</b>										
39 or Fewer .....	140	48	58	4,446	1,320	1,455	31.5	36.4	40.1	16.42
40 to 48 .....	409	181	186	6,289	2,617	2,614	65.0	69.1	71.0	11.20
49 to 60 .....	351	169	193	5,819	2,371	2,476	60.2	71.4	78.1	15.79
61 to 84 .....	245	208	278	2,967	2,692	2,778	82.7	77.2	99.9	16.34
85 to 167 .....	235	205	227	2,572	1,910	2,248	91.2	107.5	100.8	16.50
Open Continuously .....	418	314	320	2,369	1,701	2,444	176.6	184.4	130.8	17.10
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	1,353	730	940	19,001	8,571	10,776	71.2	85.1	87.2	8.69
Owner Occupied .....	1,092	618	747	14,222	6,737	8,024	76.8	91.8	93.0	8.72
Single Establishment .....	885	554	631	11,250	5,843	6,323	78.7	94.8	99.8	9.73
Multiple Establishment .....	207	64	116	2,971	894	1,701	69.6	71.9	67.9	17.71
Nonowner Occupied .....	244	106	188	3,698	1,491	2,435	66.0	71.3	77.1	18.39
Single Establishment .....	161	49	74	1,919	563	1,023	83.7	87.5	72.0	22.52
Multiple Establishment .....	83	57	114	1,779	928	1,411	46.9	61.5	80.8	20.47
Vacant .....	17	Q	Q	1,082	344	317	15.7	Q	Q	31.47
Government Owned .....	445	395	321	5,461	4,041	3,237	81.5	97.8	99.1	13.96
<b>Predominant Exterior Wall Material</b>										
Masonry .....	1,565	787	858	20,950	8,536	9,277	74.7	92.3	92.4	8.56
Siding or Shingles .....	97	32	55	1,597	560	717	60.5	56.7	76.0	15.95
Metal Panels .....	99	73	153	1,385	1,395	1,881	71.2	52.2	81.2	28.34
Concrete Panels .....	15	155	122	288	1,502	1,510	52.2	103.2	81.1	27.28
Window Glass .....	20	Q	52	194	463	408	103.5	141.2	126.4	28.55
Other .....	Q	Q	22	Q	Q	220	Q	Q	100.5	26.11
<b>Predominant Roof Material</b>										
Built-Up .....	913	637	567	11,707	6,568	5,907	78.0	96.9	96.0	10.49
Shingles (Not Wood) .....	309	137	135	5,059	1,570	2,142	61.2	87.0	63.3	13.11
Metal Surfacing .....	87	65	184	1,784	1,520	2,224	48.8	42.5	82.6	25.02
Synthetic or Rubber .....	312	232	296	3,646	2,139	2,545	85.6	108.4	116.4	15.84
Other .....	177	55	79	2,265	816	1,196	78.1	67.5	65.9	19.13
<b>Floors</b>										
One .....	392	394	456	6,789	5,146	5,763	57.8	76.5	79.2	11.29
Two .....	394	277	310	6,339	3,872	3,661	62.2	71.4	84.7	11.56
Three .....	385	149	200	5,262	1,365	1,963	73.1	109.1	101.9	15.36
Four to Nine .....	522	173	200	5,093	1,310	1,812	102.5	131.7	110.4	19.43
Ten or More .....	105	133	94	979	918	815	107.1	145.0	115.9	25.43
<b>Percent Window Glass</b>										
25 or Less .....	1,366	740	909	18,874	9,341	11,287	72.4	79.2	80.6	8.48
26 to 50 .....	326	261	264	4,404	2,390	1,817	74.1	109.3	145.4	15.01
51 to 75 .....	86	67	65	1,006	468	661	85.4	143.0	99.1	21.13
76 to 100 .....	Q	Q	22	178	Q	249	112.9	137.3	88.0	28.67

See footnotes at end of table.

**Table 3.12. Consumption and Gross Energy Intensity for Sum of Major Fuels in Older Buildings by Year Constructed, 1992 (Continued)**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)			RSE Row Factor
	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	
	RSE Column Factor:	1.1	1.2	1.1	0.8	1.0	0.9	0.9	1.0	
<b>Building Shape</b>										
Square .....	75	54	87	1,207	736	837	62.3	73.0	104.0	22.63
Rectangle .....	1,056	616	736	14,523	7,086	8,367	72.7	86.9	87.9	9.83
Right Angle .....	154	75	77	2,465	1,132	1,191	62.6	66.7	64.7	18.71
Other .....	512	380	361	6,266	3,658	3,619	81.7	103.8	99.8	13.03
<b>Space-Heating Energy Sources (more than one may apply)</b>										
Electricity .....	427	305	523	6,578	3,880	6,191	65.0	78.5	84.4	11.69
Natural Gas .....	1,197	736	826	14,964	7,858	7,649	80.0	93.7	108.0	9.41
Fuel Oil .....	333	185	184	3,549	1,505	1,484	93.8	123.2	123.8	17.37
District Heat .....	286	219	131	1,927	1,363	972	148.3	161.0	134.4	19.49
Propane .....	16	13	15	431	273	351	36.7	48.0	41.4	28.32
Wood .....	8	Q	Q	276	Q	Q	29.2	Q	Q	26.82
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Energy Sources (more than one may apply)</b>										
Electricity .....	1,483	961	1,089	18,222	10,231	11,375	81.4	93.9	95.7	8.08
Natural Gas .....	146	48	54	593	428	423	246.8	111.1	127.9	30.18
District Chilled Water .....	77	75	62	652	375	480	117.5	200.5	128.3	27.43
<b>Water-Heating Energy Sources (more than one may apply)</b>										
Electricity .....	431	259	507	7,259	3,423	5,946	59.4	75.7	85.3	11.42
Natural Gas .....	1,064	658	659	11,756	6,536	5,733	90.5	100.7	115.0	10.38
Fuel Oil .....	120	48	53	1,281	416	458	93.4	116.1	114.9	29.42
District Heat .....	177	190	92	1,154	1,139	664	153.2	166.9	137.9	21.75
Propane .....	Q	Q	Q	249	Q	Q	55.2	Q	Q	45.28
<b>Cooking Energy Sources (more than one may apply)</b>										
Electricity .....	279	295	269	2,726	2,734	2,427	102.4	107.7	111.0	13.96
Natural Gas .....	489	387	454	5,097	3,455	3,502	95.9	112.0	129.6	14.04
Propane .....	17	18	24	242	298	253	71.2	60.6	95.5	33.63
<b>Percent of Floorspace Heated</b>										
Not Heated .....	Q	41	21	2,408	1,064	1,200	Q	38.4	17.9	30.92
1 to 50 .....	187	99	95	4,797	2,060	2,059	39.0	48.2	46.1	22.30
51 to 99 .....	249	158	277	3,692	2,061	2,039	67.4	76.6	135.7	14.77
100 .....	1,326	827	868	13,565	7,427	8,716	97.8	111.3	99.6	8.28
<b>Percent of Floorspace Cooled</b>										
Not Cooled .....	246	110	51	5,550	2,011	1,728	44.4	54.9	29.4	15.47
1 to 50 .....	606	249	241	9,565	3,604	3,881	63.4	69.0	62.1	11.33
51 to 99 .....	382	331	377	4,035	3,167	3,035	94.7	104.4	124.3	14.30
100 .....	563	435	592	5,312	3,830	5,370	106.0	113.7	110.2	11.82
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	167	90	166	1,934	1,055	1,783	86.5	85.6	93.1	18.26
Furnaces .....	494	278	273	7,344	3,367	2,982	67.2	82.7	91.7	15.34
Individual Space Heaters .....	494	337	434	7,334	3,862	5,434	67.3	87.4	79.9	11.94
District Heat .....	320	219	131	2,015	1,363	972	158.9	161.0	134.4	21.38
Boilers .....	763	460	422	8,964	4,027	3,734	85.1	114.3	113.0	10.78
Packaged Heating Units .....	330	257	371	3,664	3,226	3,911	89.9	79.7	94.8	14.90
Other .....	Q	Q	45	285	Q	231	Q	Q	196.4	31.45
<b>Heating Distribution Equipment (more than one may apply)</b>										
Radiators or Baseboards .....	702	276	223	7,635	2,296	1,994	92.0	120.1	111.7	13.18
Ducts for Heating .....	1,165	884	974	14,078	8,893	9,566	82.7	99.4	101.8	8.75
VAV System Used .....	235	306	285	2,047	2,273	2,108	114.8	134.7	135.4	18.38
Individual Space Heaters .....	494	337	434	7,334	3,862	5,434	67.3	87.4	79.9	11.94
Fan Coil Units or Other .....	416	195	237	3,438	1,779	1,654	121.0	109.7	143.5	15.65

See footnotes at end of table.

**Table 3.12. Consumption and Gross Energy Intensity for Sum of Major Fuels in Older Buildings by Year Constructed, 1992 (Continued)**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)			RSE Row Factor
	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	
	RSE Column Factor:	1.1	1.2	1.1	0.8	1.0	0.9	0.9	1.0	
<b>Cooling Equipment (more than one may apply)</b>										
Residential-Type Central A/C .....	371	170	205	4,144	1,528	1,800	89.6	111.1	113.8	19.27
Heat Pumps .....	166	115	173	1,946	1,170	1,807	85.4	98.0	95.7	17.76
Individual A/C .....	646	342	222	8,783	3,603	2,586	73.5	94.8	85.9	12.86
District Chilled Water .....	77	75	79	652	376	632	117.5	200.4	124.5	29.40
Central Chillers .....	407	386	385	2,854	3,032	3,306	142.6	127.4	116.5	15.31
Packaged A/C Units .....	741	497	654	8,357	5,411	6,494	88.7	91.8	100.8	10.49
Swamp Coolers .....	71	Q	35	544	510	386	130.3	Q	90.6	30.44
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Distribution Equipment (more than one may apply)</b>										
Ducts for Cooling .....	1,232	844	1,087	14,554	8,567	10,517	84.7	98.5	103.4	8.36
VAV System Used .....	253	278	341	2,168	1,853	2,715	116.8	149.9	125.6	15.61
Individual A/C .....	646	342	222	8,783	3,603	2,586	73.5	94.8	85.9	12.86
Fan Coil Units or Other .....	258	209	244	1,728	1,607	2,211	149.5	129.9	110.2	20.94
<b>Water-Heating Equipment (more than one may apply)</b>										
Centralized System .....	1,128	634	764	12,074	5,523	6,893	93.4	114.8	110.8	9.59
Distributed System .....	625	482	522	8,885	5,627	6,046	70.4	85.7	86.4	11.44
<b>Energy Conservation Features (more than one may apply)</b>										
Any Conservation Features .....	1,740	1,119	1,253	22,581	12,053	13,464	77.1	92.8	93.0	7.45
Building Shell .....	1,695	1,092	1,216	21,904	11,695	12,754	77.4	93.4	95.3	7.53
HVAC .....	1,442	985	1,094	15,930	9,812	10,636	90.5	100.3	102.9	8.13
Lighting .....	796	580	667	8,355	5,219	6,680	95.3	111.2	99.9	11.12
Other .....	156	127	141	1,816	1,247	1,430	85.8	101.6	98.6	17.83
<b>Energy Management Practices (more than one may apply)</b>										
Energy Management and Control System .....	330	324	451	2,892	2,538	3,313	114.1	127.7	136.0	14.81
Demand-Side Management <sup>1</sup> Participation .....	385	337	369	3,212	2,793	2,741	120.0	120.8	134.7	16.57
Energy Audit .....	493	353	365	5,283	3,060	3,331	93.3	115.2	109.6	13.63
Building Energy Manager .....	105	52	99	771	376	790	136.0	139.4	125.3	27.50

<sup>1</sup> 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.

NF = No applicable RSE row factor.

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. • 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.

**Table 3.13. Consumption and Gross Energy Intensity for Sum of Major Fuels in Newer Buildings by Year Constructed, 1992**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)			RSE Row Factor
	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	
	1.0	1.2	1.3	0.7	1.1	1.0	0.8	1.1	1.0	
<b>All Buildings</b> .....	839	294	173	10,149	4,138	2,502	82.7	71.0	69.3	13.57
<b>Building Floorspace (square feet)</b>										
1,001 to 5,000 .....	118	30	12	1,064	275	197	111.0	109.5	58.6	20.39
5,001 to 10,000 .....	56	31	8	896	355	176	62.8	86.9	46.4	22.52
10,001 to 25,000 .....	95	42	20	1,613	576	309	58.7	72.8	64.9	19.78
25,001 to 50,000 .....	149	40	24	1,176	482	327	126.6	83.4	73.2	25.86
50,001 to 100,000 .....	114	39	25	1,330	387	268	86.0	99.6	94.9	24.89
100,001 to 200,000 .....	116	25	20	1,626	444	269	71.5	57.0	72.6	25.48
200,001 to 500,000 .....	108	26	44	1,207	320	670	89.5	80.1	66.1	27.13
Over 500,000 .....	83	61	20	1,237	Q	285	66.8	Q	71.1	22.59
<b>Principal Building Activity</b>										
Education .....	34	14	Q	480	173	253	71.8	81.2	57.1	24.05
Food Sales .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Food Service .....	34	Q	Q	103	Q	Q	330.0	Q	Q	31.17
Health Care .....	50	Q	Q	240	Q	Q	209.1	Q	Q	28.28
Lodging .....	104	Q	12	550	Q	97	188.3	Q	122.8	33.70
Mercantile and Service .....	137	33	30	2,109	535	545	65.0	62.1	54.6	20.34
Office .....	219	68	52	2,419	899	590	90.7	75.6	87.4	18.24
Parking Garage .....	Q	Q	Q	Q	Q	124	Q	Q	24.5	32.28
Public Assembly .....	25	Q	19	461	Q	197	55.3	Q	97.0	28.67
Public Order and Safety .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Religious Worship .....	9	Q	Q	358	Q	Q	24.3	Q	Q	25.00
Warehouse and Storage .....	136	22	12	2,233	610	377	61.0	36.3	30.8	24.25
Other .....	19	Q	Q	126	Q	Q	153.9	Q	Q	38.15
Vacant .....	Q	Q	Q	571	Q	77	Q	Q	Q	45.42
<b>Census Region and Division</b>										
Northeast .....	132	40	28	1,547	506	286	85.2	79.7	96.7	25.35
New England .....	28	Q	Q	497	Q	Q	56.0	Q	Q	44.77
Middle Atlantic .....	104	20	19	1,049	334	194	99.0	59.6	99.6	29.04
Midwest .....	251	53	49	2,482	500	670	101.1	105.9	73.7	20.59
East North Central .....	136	32	39	1,171	271	369	115.9	119.6	105.2	28.22
West North Central .....	115	21	11	1,311	229	301	87.8	89.6	35.0	25.60
South .....	273	145	55	3,950	2,367	906	69.1	Q	61.0	17.80
South Atlantic .....	89	42	24	1,806	783	487	49.2	54.0	49.6	22.70
East South Central .....	80	30	19	915	350	268	87.3	85.4	70.9	19.96
West South Central .....	104	73	12	1,229	Q	151	84.9	Q	80.3	28.83
West .....	184	55	41	2,170	765	639	84.7	72.5	64.0	20.69
Mountain .....	87	15	Q	793	229	148	109.3	66.2	66.7	37.19
Pacific .....	97	40	31	1,376	536	491	70.5	75.2	63.2	25.47
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and --										
More than 7,000 HDD .....	59	Q	Q	757	Q	Q	78.1	Q	Q	36.53
5,500-7,000 HDD .....	235	58	59	2,328	598	681	101.0	97.8	86.1	21.92
4,000-5,499 HDD .....	165	46	40	1,998	727	569	82.5	63.7	70.9	19.92
Fewer than 4,000 HDD .....	176	81	48	2,509	1,125	736	70.2	72.4	65.6	18.60
More than 2,000 CDD and --										
Fewer than 4,000 HDD .....	204	91	21	2,557	Q	415	79.9	Q	51.6	25.55
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	839	294	173	10,042	4,106	2,482	83.6	71.5	69.7	10.91
Natural Gas .....	608	192	136	6,265	1,957	1,625	97.1	98.3	83.6	13.15
Fuel Oil .....	202	70	81	2,122	748	743	95.1	93.2	108.7	19.83
District Heat .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
District Chilled Water .....	52	Q	19	184	Q	164	281.6	Q	113.8	35.03
Propane .....	35	8	Q	609	201	212	57.6	40.2	35.3	34.54
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.



**Table 3.13. Consumption and Gross Energy Intensity for Sum of Major Fuels in Newer Buildings by Year Constructed, 1992 (Continued)**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)			RSE Row Factor
	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	
RSE Column Factor:	1.0	1.2	1.3	0.7	1.1	1.0	0.8	1.1	1.0	
<b>Energy End Uses (more than one may apply)</b>										
Heated Buildings .....	819	289	170	9,398	3,878	2,303	87.2	74.6	73.9	13.90
Buildings with A/C .....	811	277	168	9,225	3,760	2,258	87.9	73.8	74.6	14.12
Buildings with Water Heating .....	807	286	161	8,869	3,696	2,167	91.0	77.4	74.3	14.50
Buildings with Cooking .....	334	163	78	3,197	2,117	859	104.4	Q	91.1	19.00
Buildings with Manufacturing .....	66	Q	Q	504	Q	Q	Q	Q	Q	38.41
<b>Workers (main shift)</b>										
Less than 5 .....	108	78	19	2,177	Q	516	49.6	Q	37.7	22.82
5 to 9 .....	107	19	7	882	343	152	121.6	56.5	46.7	24.77
10 to 19 .....	81	37	17	1,142	389	201	70.7	94.9	83.2	24.57
20 to 49 .....	136	52	22	1,560	514	399	86.8	100.4	54.7	23.02
50 to 99 .....	96	32	24	1,117	347	301	86.3	92.3	78.8	25.09
100 or More .....	311	75	84	3,271	926	933	95.2	81.2	90.5	16.97
<b>Weekly Operating Hours</b>										
39 or Fewer .....	17	Q	8	686	163	176	25.4	Q	46.6	27.97
40 to 48 .....	159	35	41	2,278	646	554	69.6	54.8	74.6	21.75
49 to 60 .....	149	36	37	2,104	616	661	70.6	58.5	55.4	18.59
61 to 84 .....	164	45	22	2,500	709	415	65.4	63.4	53.9	20.43
85 to 167 .....	91	54	28	920	544	273	98.4	99.2	101.6	21.32
Open Continuously .....	261	117	37	1,661	Q	423	156.9	Q	87.6	25.34
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	744	255	122	9,056	3,550	1,798	82.1	71.9	67.7	15.72
Owner Occupied .....	607	151	98	6,328	1,785	1,307	95.8	84.6	75.1	13.68
Single Establishment .....	481	128	72	4,179	1,420	976	115.0	90.2	73.2	14.73
Multiple Establishment .....	126	23	Q	2,149	366	330	58.6	62.6	80.7	24.51
Nonowner Occupied .....	130	103	23	2,442	Q	472	53.4	Q	49.6	20.51
Single Establishment .....	41	71	12	663	Q	197	62.0	Q	61.6	27.94
Multiple Establishment .....	89	32	11	1,779	537	275	50.2	59.6	41.1	22.64
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned .....	96	39	52	1,093	588	704	87.5	65.8	73.3	22.01
<b>Predominant Exterior Wall Material</b>										
Masonry .....	494	207	105	5,635	2,662	1,526	87.7	Q	68.7	15.98
Siding or Shingles .....	53	17	Q	716	178	105	74.3	96.2	Q	24.86
Metal Panels .....	150	17	13	1,929	559	244	77.9	31.2	53.4	24.76
Concrete Panels .....	46	33	37	745	452	464	61.2	73.0	78.7	23.57
Window Glass .....	42	12	4	685	202	76	61.6	57.3	53.6	22.15
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Predominant Roof Material</b>										
Built-Up .....	301	119	57	3,563	Q	699	84.5	Q	81.3	17.92
Shingles (Not Wood) .....	118	23	12	1,310	283	206	90.2	80.3	55.8	24.19
Metal Surfacing .....	148	45	22	2,206	821	464	66.9	54.9	46.7	19.31
Synthetic or Rubber .....	179	76	70	1,688	817	868	106.2	92.8	81.0	17.47
Other .....	93	31	13	1,382	404	265	67.5	76.1	48.8	31.37
<b>Floors</b>										
One .....	313	150	46	4,359	2,373	994	71.8	Q	45.8	17.43
Two .....	226	49	46	2,789	710	654	81.1	69.2	70.0	19.40
Three .....	107	25	21	822	243	223	130.5	105.0	92.0	30.44
Four to Nine .....	116	54	47	1,085	620	457	107.2	86.8	102.9	26.14
Ten or More .....	77	15	14	1,094	192	174	70.1	79.9	83.3	25.56
<b>Percent Window Glass</b>										
25 or Less .....	591	183	115	6,989	3,164	1,701	84.6	Q	67.3	15.06
26 to 50 .....	155	76	31	2,119	597	488	73.2	127.5	63.8	19.03
51 to 75 .....	59	21	15	625	231	215	93.7	88.8	67.4	24.52
76 to 100 .....	34	Q	Q	417	Q	Q	82.6	Q	Q	25.16

See footnotes at end of table.

**Table 3.13. Consumption and Gross Energy Intensity for Sum of Major Fuels in Newer Buildings by Year Constructed, 1992 (Continued)**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)			RSE Row Factor
	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	
	RSE Column Factor:	1.0	1.2	1.3	0.7	1.1	1.0	0.8	1.1	
<b>Building Shape</b>										
Square .....	46	13	5	533	195	Q	87.0	67.5	Q	29.91
Rectangle .....	444	144	90	5,943	1,989	1,324	74.7	72.6	68.3	13.11
Right Angle .....	60	16	16	816	248	220	73.7	65.1	73.0	24.30
Other .....	289	120	62	2,857	Q	812	101.0	Q	76.5	21.79
<b>Space-Heating Energy Sources (more than one may apply)</b>										
Electricity .....	467	142	72	5,657	2,301	1,030	82.6	Q	69.5	17.22
Natural Gas .....	446	141	107	5,117	1,555	1,325	87.2	90.6	80.6	14.37
Fuel Oil .....	58	Q	16	496	Q	124	116.5	Q	129.1	31.34
District Heat .....	109	22	27	524	149	195	Q	145.8	136.3	29.78
Propane .....	11	Q	Q	316	Q	Q	35.6	Q	Q	35.12
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Energy Sources (more than one may apply)</b>										
Electricity .....	766	270	154	9,002	3,690	2,108	85.0	73.2	73.1	14.20
Natural Gas .....	33	Q	Q	Q	Q	Q	Q	Q	Q	40.22
District Chilled Water .....	52	Q	19	184	Q	164	281.6	Q	113.8	35.03
<b>Water-Heating Energy Sources (more than one may apply)</b>										
Electricity .....	390	156	56	5,278	2,596	980	73.8	Q	57.0	18.63
Natural Gas .....	396	131	98	3,634	1,175	1,117	109.0	111.5	87.9	14.70
Fuel Oil .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
District Heat .....	67	Q	11	215	Q	67	308.8	Q	158.4	35.94
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooking Energy Sources (more than one may apply)</b>										
Electricity .....	196	105	56	2,091	Q	590	93.7	Q	95.8	21.23
Natural Gas .....	231	92	44	1,950	748	452	118.5	122.3	98.3	18.95
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Percent of Floorspace Heated</b>										
Not Heated .....	20	4	Q	751	260	199	27.0	17.0	Q	34.46
1 to 50 .....	54	23	9	1,690	640	279	32.1	35.2	32.3	25.81
51 to 99 .....	132	42	27	1,636	438	345	80.9	96.5	77.2	22.37
100 .....	633	225	135	6,073	2,799	1,679	104.2	Q	80.1	14.02
<b>Percent of Floorspace Cooled</b>										
Not Cooled .....	29	16	5	925	377	244	31.1	43.1	20.2	29.81
1 to 50 .....	195	29	28	3,242	891	534	60.1	32.8	53.2	22.02
51 to 99 .....	208	84	49	2,339	706	590	89.0	119.1	83.2	19.86
100 .....	407	164	91	3,643	2,164	1,134	111.8	Q	80.1	16.82
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	211	42	27	2,290	672	534	92.1	62.4	50.8	21.70
Furnaces .....	202	50	22	2,308	586	323	87.7	84.9	67.8	21.45
Individual Space Heaters .....	331	65	63	4,022	961	768	82.3	67.2	81.6	15.81
District Heat .....	109	22	28	524	149	202	Q	145.8	137.6	29.40
Boilers .....	188	90	56	1,972	Q	544	95.5	Q	102.5	21.08
Packaged Heating Units .....	235	110	54	3,154	1,152	893	74.7	95.4	60.6	15.60
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Heating Distribution Equipment (more than one may apply)</b>										
Radiators or Baseboards .....	119	27	32	839	246	252	141.5	108.1	128.1	22.90
Ducts for Heating .....	649	256	145	7,458	3,423	2,004	87.1	74.8	72.6	14.97
VAV System Used .....	238	132	82	2,388	Q	856	99.5	Q	95.9	19.11
Individual Space Heaters .....	331	65	63	4,022	961	768	82.3	67.2	81.6	15.81
Fan Coil Units or Other .....	127	30	27	1,042	291	252	122.3	103.4	107.9	34.96

See footnotes at end of table.

**Table 3.13. Consumption and Gross Energy Intensity for Sum of Major Fuels in Newer Buildings by Year Constructed, 1992 (Continued)**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)			RSE Row Factor
	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	
	1.0	1.2	1.3	0.7	1.1	1.0	0.8	1.1	1.0	
<b>Cooling Equipment (more than one may apply)</b>										
Residential-Type Central A/C .....	110	27	15	992	365	190	110.6	74.3	78.3	29.17
Heat Pumps .....	227	44	28	2,224	697	562	102.1	63.0	49.3	21.59
Individual A/C .....	159	73	12	1,630	Q	108	97.3	Q	114.1	29.36
District Chilled Water .....	52	Q	19	184	Q	164	281.6	Q	113.8	35.03
Central Chillers .....	164	85	54	1,839	Q	571	89.4	Q	94.7	20.41
Packaged A/C Units .....	377	148	97	4,788	1,550	1,230	78.8	95.3	78.9	13.70
Swamp Coolers .....	39	Q	Q	428	Q	Q	92.3	Q	Q	39.19
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Distribution Equipment (more than one may apply)</b>										
Ducts for Cooling .....	739	273	162	8,288	3,651	2,177	89.2	74.8	74.3	14.40
VAV System Used .....	283	140	97	2,739	1,981	973	103.2	Q	99.2	18.63
Individual A/C .....	159	73	12	1,630	Q	108	97.3	Q	114.1	29.36
Fan Coil Units or Other .....	82	Q	11	730	Q	115	111.8	Q	91.8	36.57
<b>Water-Heating Equipment (more than one may apply)</b>										
Centralized System .....	389	177	93	3,795	2,220	1,095	102.6	Q	85.3	17.37
Distributed System .....	446	160	70	5,341	2,492	1,110	83.5	Q	63.1	18.23
<b>Energy Conservation Features (more than one may apply)</b>										
Any Conservation Features .....	833	293	172	9,842	4,044	2,419	84.6	72.5	71.2	13.73
Building Shell .....	821	290	170	9,463	3,902	2,338	86.8	74.2	72.5	14.12
HVAC .....	742	275	162	8,199	3,602	2,103	90.5	76.3	76.8	14.57
Lighting .....	464	163	130	5,052	2,519	1,627	91.8	Q	79.6	15.41
Other .....	76	29	24	860	325	275	87.9	89.6	87.8	21.80
<b>Energy Management Practices (more than one may apply)</b>										
Energy Management and Control System .....	221	140	106	2,324	2,018	1,236	95.2	Q	85.4	18.48
Demand-Side Management <sup>1</sup> Participation .....	159	44	32	1,539	521	504	103.0	84.7	63.9	20.91
Energy Audit .....	188	58	22	2,144	631	330	87.5	92.0	68.0	21.05
Building Energy Manager .....	24	8	Q	181	137	56	130.1	58.9	155.5	34.24

<sup>1</sup> 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.

NF = No applicable RSE row factor.

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. • 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.

**Table 3.14. Total Electricity Consumption and Expenditures, 1992**

Building Characteristics	All Buildings Using Electricity			Electricity Consumption			Electricity Expenditures	RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)	
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)		
	RSE Column Factor:	0.9	0.9	0.8	1.1	1.1	1.1	
<b>All Buildings</b> .....	4,611	66,525	14.4	7,876	2,609	765	57,619	4.04
<b>Building Floorspace (square feet)</b>								
1,001 to 5,000 .....	2,535	6,984	2.8	1,009	334	98	8,536	4.71
5,001 to 10,000 .....	954	7,056	7.4	759	251	74	6,336	5.07
10,001 to 25,000 .....	628	10,097	16.1	1,011	335	98	7,758	5.03
25,001 to 50,000 .....	275	9,856	35.9	1,049	347	102	7,619	6.61
50,001 to 100,000 .....	114	7,926	69.7	930	308	90	6,806	7.67
100,001 to 200,000 .....	70	9,658	137.1	1,047	347	102	6,935	8.15
200,001 to 500,000 .....	25	7,677	304.5	1,089	361	106	6,847	9.65
Over 500,000 .....	9	7,271	770.7	980	325	95	6,783	13.75
<b>Principal Building Activity</b>								
Education .....	301	8,470	28.2	708	235	69	5,526	8.71
Food Sales .....	130	757	5.8	340	113	33	2,250	14.30
Food Service .....	260	1,491	5.7	415	138	40	3,359	9.37
Health Care .....	63	1,763	27.9	416	138	40	2,640	11.81
Lodging .....	154	2,891	18.8	571	189	55	4,030	16.26
Mercantile and Service .....	1,267	12,388	9.8	1,342	444	130	10,583	6.36
Office .....	749	12,318	16.4	2,124	704	206	15,511	7.84
Parking Garage .....	24	1,652	69.9	Q	Q	Q	743	33.35
Public Assembly .....	278	4,554	16.4	522	173	51	3,430	9.89
Public Order and Safety .....	60	820	13.7	84	28	8	619	25.10
Religious Worship .....	366	3,747	10.2	95	32	9	890	10.49
Warehouse and Storage .....	685	11,179	16.3	765	253	74	5,386	11.51
Other .....	65	1,124	17.3	235	78	23	1,479	18.37
Vacant .....	210	3,371	16.1	141	47	14	1,172	15.72
<b>Year Constructed</b>								
1899 or Before .....	169	1,721	10.2	116	38	11	1,029	16.90
1900 to 1919 .....	244	3,401	14.0	202	67	20	1,711	15.29
1920 to 1945 .....	681	8,385	12.3	655	217	64	5,263	10.58
1946 to 1959 .....	839	10,135	12.1	1,002	332	97	7,477	9.17
1960 to 1969 .....	757	12,473	16.5	1,593	528	155	11,617	7.76
1970 to 1979 .....	945	13,779	14.6	1,898	629	184	13,659	6.84
1980 to 1989 .....	853	14,148	16.6	2,080	689	202	14,510	7.08
1990 to 1992 .....	124	2,482	20.0	330	109	32	2,354	14.25
<b>Census Region and Division</b>								
Northeast .....	755	13,235	17.5	1,264	419	123	12,250	7.13
New England .....	186	3,265	17.6	308	102	30	2,935	20.44
Middle Atlantic .....	569	9,971	17.5	956	317	93	9,315	10.68
Midwest .....	1,139	16,902	14.8	1,876	622	182	12,745	7.80
East North Central .....	723	10,574	14.6	1,134	376	110	8,308	10.59
West North Central .....	416	6,328	15.2	742	246	72	4,437	14.74
South .....	1,872	23,972	12.8	3,025	1,002	294	19,097	6.98
South Atlantic .....	736	10,431	14.2	1,388	460	135	9,252	9.18
East South Central .....	428	5,237	12.2	709	235	69	3,851	15.38
West South Central .....	708	8,305	11.7	927	307	90	5,994	12.08
West .....	845	12,415	14.7	1,710	566	166	13,527	8.10
Mountain .....	283	3,562	12.6	559	185	54	3,616	14.58
Pacific .....	562	8,853	15.7	1,151	381	112	9,911	9.68
<b>Climate Zone: 45-Year Average</b>								
Fewer than 2,000 CDD and --								
More than 7,000 HDD .....	382	5,475	14.3	585	194	57	3,553	14.02
5,500-7,000 HDD .....	1,089	17,719	16.3	1,873	621	182	14,625	9.28
4,000-5,499 HDD .....	1,039	15,965	15.4	1,800	596	175	13,278	10.50
Fewer than 4,000 HDD .....	1,054	14,865	14.1	1,994	661	194	14,688	12.03
More than 2,000 CDD and --								
Fewer than 4,000 HDD .....	1,048	12,501	11.9	1,623	537	158	11,474	10.86

See footnotes at end of table.

**Table 3.14. Total Electricity Consumption and Expenditures, 1992 (Continued)**

Building Characteristics	All Buildings Using Electricity			Electricity Consumption			Electricity Expenditures	RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)	
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)		
RSE Column Factor:	0.9	0.9	0.8	1.1	1.1	1.1	1.1	
<b>Energy Sources (more than one may apply)</b>								
Electricity .....	4,611	66,525	14.4	7,876	2,609	765	57,619	4.04
Natural Gas .....	2,655	44,987	16.9	5,341	1,769	519	39,769	5.22
Fuel Oil .....	557	13,208	23.7	1,981	656	192	14,003	10.36
District Heat .....	95	5,245	55.4	842	279	82	5,746	21.19
District Chilled Water .....	28	1,914	68.0	357	118	35	2,170	19.64
Propane .....	335	3,386	10.1	398	132	39	3,085	13.50
Any Other .....	159	1,541	9.7	112	37	11	831	17.89
<b>Energy End Uses (more than one may apply)</b>								
Heated Buildings .....	4,172	61,964	14.9	7,544	2,499	732	55,265	4.07
Buildings with A/C .....	3,502	57,041	16.3	7,384	2,446	717	53,825	4.25
Buildings with Water Heating .....	3,502	58,477	16.7	7,453	2,469	723	54,252	4.21
Buildings with Cooking .....	734	23,065	31.4	3,510	1,163	341	24,939	5.87
Buildings with Manufacturing .....	118	3,167	26.8	356	118	35	2,650	13.77
<b>Workers (main shift)</b>								
Less than 5 .....	2,526	16,616	6.6	1,164	385	113	9,236	6.84
5 to 9 .....	895	7,524	8.4	707	234	69	5,753	5.59
10 to 19 .....	560	8,054	14.4	887	294	86	6,736	9.40
20 to 49 .....	405	10,556	26.1	1,275	422	124	9,374	7.59
50 to 99 .....	130	7,763	59.7	999	331	97	6,953	9.72
100 or More .....	96	16,010	167.1	2,844	942	276	19,566	7.59
<b>Weekly Operating Hours</b>								
39 or Fewer .....	886	7,065	8.0	244	81	24	2,223	8.90
40 to 48 .....	1,268	14,945	11.8	1,457	483	141	10,823	7.68
49 to 60 .....	992	14,020	14.1	1,293	428	125	10,197	6.19
61 to 84 .....	641	12,028	18.8	1,454	482	141	11,389	8.16
85 to 167 .....	475	8,455	17.8	1,356	449	132	10,031	8.30
Open Continuously .....	349	10,011	28.7	2,072	686	201	12,957	8.50
<b>Ownership and Occupancy</b>								
Nongovernment Owned .....	4,033	51,579	12.8	6,204	2,055	602	46,002	4.40
Owner Occupied .....	3,126	38,157	12.2	4,814	1,595	467	35,438	4.59
Single Establishment .....	2,799	29,752	10.6	3,847	1,274	373	27,862	5.40
Multiple Establishment .....	327	8,405	25.7	967	320	94	7,576	10.64
Nonowner Occupied .....	796	12,156	15.3	1,345	445	131	10,173	7.44
Single Establishment .....	485	5,520	11.4	673	223	65	4,627	12.18
Multiple Establishment .....	311	6,636	21.3	671	222	65	5,546	9.35
Vacant .....	112	1,265	11.3	45	15	4	392	26.99
Government Owned .....	578	14,946	25.9	1,672	554	162	11,617	7.28
<b>Predominant Exterior Wall Material</b>								
Masonry .....	3,033	47,814	15.8	5,520	1,828	536	40,496	4.17
Siding or Shingles .....	715	3,647	5.1	390	129	38	3,260	7.24
Metal Panels .....	690	7,125	10.3	707	234	69	4,786	12.73
Concrete Panels .....	85	4,906	57.7	669	222	65	4,868	11.55
Window Glass .....	43	2,008	46.8	424	140	41	3,066	21.78
Other .....	46	1,024	22.5	165	55	16	1,143	23.98
<b>Predominant Roof Material</b>								
Built-Up .....	1,593	29,757	18.7	3,900	1,292	379	28,113	5.42
Shingles (Not Wood) .....	1,347	10,321	7.7	951	315	92	7,649	8.66
Metal Surfacing .....	946	8,633	9.1	727	241	71	5,194	8.43
Synthetic or Rubber .....	378	11,595	30.7	1,620	537	157	11,633	7.38
Other .....	347	6,219	17.9	677	224	66	5,030	11.54

See footnotes at end of table.

**Table 3.14. Total Electricity Consumption and Expenditures, 1992 (Continued)**

Building Characteristics	All Buildings Using Electricity			Electricity Consumption			Electricity Expenditures	RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)	
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)		
RSE Column Factor:	0.9	0.9	0.8	1.1	1.1	1.1	1.1	
<b>Space-Heating Energy Source</b>								
Electricity .....	1,513	25,636	16.9	3,631	1,203	352	25,856	6.02
Electricity Main .....	1,107	15,502	14.0	2,414	800	234	16,781	6.66
Electricity Secondary .....	406	10,134	24.9	1,216	403	118	9,075	10.00
Other Excluding Electricity .....	2,659	36,328	13.7	3,914	1,296	380	29,409	4.96
Building Not Heated .....	439	4,560	10.4	331	110	32	2,353	21.74
<b>Main Space-Heating Energy Source</b>								
Electricity .....	1,107	15,502	14.0	2,414	800	234	16,781	6.66
Natural Gas .....	2,268	35,122	15.5	3,868	1,281	375	28,866	5.81
Fuel Oil .....	394	4,404	11.2	327	108	32	3,122	13.06
District Heat .....	89	4,749	53.5	780	258	76	5,321	14.17
Propane .....	217	1,101	5.1	90	30	9	777	17.64
Wood .....	64	246	3.8	10	3	1	98	20.85
Any Other .....	24	546	Q	22	7	2	124	40.17
<b>Replacement Energy Source for Main Heating</b>								
Electricity Only .....	350	2,559	7.3	229	76	22	1,825	11.27
Natural Gas Only .....	213	2,260	10.6	246	81	24	1,853	12.64
Fuel Oil Only .....	161	5,451	33.9	784	260	76	5,062	12.83
Propane Only .....	210	2,168	10.3	218	72	21	1,587	13.77
Any Other Single Energy Source .....	57	477	8.4	38	13	4	Q	32.69
More than One Energy Source .....	93	895	9.6	97	32	9	685	19.35
No Replacement Energy Source .....	3,088	48,155	15.6	5,934	1,965	576	43,853	4.48
Building Not Heated .....	439	4,560	10.4	331	110	32	2,353	21.74
<b>Cooling Energy Source</b>								
Electricity .....	3,404	54,628	16.0	7,022	2,326	682	51,474	4.33
Other Excluding Electricity .....	97	2,413	24.8	362	120	35	2,351	16.98
A/C Not Performed .....	1,110	9,484	8.5	492	163	48	3,794	11.91
<b>Water-Heating Energy Source</b>								
Electricity .....	1,696	25,482	15.0	3,317	1,099	322	23,303	5.72
Other Excluding Electricity .....	1,805	32,995	18.3	4,136	1,370	401	30,949	5.41
Water Heating Not Performed .....	1,110	8,047	7.3	423	140	41	3,367	13.37
<b>Cooking Energy Source</b>								
Electricity .....	356	12,183	34.2	2,005	664	195	13,854	6.73
Other Excluding Electricity .....	378	10,882	28.8	1,504	498	146	11,086	8.34
Cooking Not Performed .....	3,877	43,460	11.2	4,366	1,446	424	32,679	4.78
<b>Manufacturing Energy Source</b>								
Electricity .....	95	2,579	27.3	307	102	30	2,251	14.79
Other Excluding Electricity .....	24	588	24.7	50	17	5	399	23.78
Manufacturing Not Performed .....	4,493	63,358	14.1	7,519	2,491	730	54,969	4.14
<b>Percent of Floorspace Heated</b>								
Not Heated .....	439	4,560	10.4	331	110	32	2,353	21.74
1 to 50 .....	711	11,507	16.2	769	255	75	6,038	9.70
51 to 99 .....	615	10,199	16.6	1,306	433	127	10,034	7.39
100 .....	2,846	40,258	14.1	5,469	1,812	531	39,192	4.71
<b>Percent of Floorspace Cooled</b>								
Not Cooled .....	1,110	9,484	8.5	492	163	48	3,794	11.91
1 to 50 .....	1,176	21,715	18.5	1,439	477	140	11,296	5.54
51 to 99 .....	658	13,872	21.1	2,259	748	219	16,302	6.80
100 .....	1,668	21,454	12.9	3,685	1,221	358	26,227	5.82

See footnotes at end of table.

**Table 3.14. Total Electricity Consumption and Expenditures, 1992 (Continued)**

Building Characteristics	All Buildings Using Electricity			Electricity Consumption			Electricity Expenditures	RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)	
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)		
RSE Column Factor:	0.9	0.9	0.8	1.1	1.1	1.1	1.1	
<b>Percent Lit when Open</b>								
Not Lit .....	220	1,935	8.8	51	17	5	429	22.31
1 to 50 .....	880	9,975	11.3	500	166	49	3,976	11.33
51 to 99 .....	813	14,222	17.5	1,650	547	160	12,433	5.53
100 .....	2,699	40,393	15.0	5,674	1,880	551	40,781	4.91
<b>Percent Lit when Closed</b>								
Not Lit .....	2,792	33,135	11.9	3,807	1,261	370	26,703	5.17
1 to 50 .....	1,689	31,482	18.6	3,792	1,256	368	28,938	5.18
51 to 99 .....	43	1,021	24.0	169	56	16	1,231	20.94
100 .....	87	887	10.2	107	36	10	747	20.98
<b>Heating Equipment (more than one may apply)</b>								
Heat Pumps .....	449	8,269	18.4	1,312	435	127	8,938	9.04
Furnaces .....	1,692	16,908	10.0	1,597	529	155	12,330	5.68
Individual Space Heaters .....	1,459	22,364	15.3	2,550	845	248	18,096	5.73
District Heat .....	93	5,225	55.9	843	279	82	5,725	14.05
Boilers .....	624	20,664	33.1	2,504	829	243	17,612	6.31
Packaged Heating Units .....	870	15,999	18.4	2,203	730	214	16,901	7.35
Other .....	42	903	21.2	249	83	24	1,601	20.16
<b>Cooling Equipment (more than one may apply)</b>								
Residential-Type Central A/C .....	816	9,021	11.0	977	324	95	7,324	8.11
Heat Pumps .....	454	8,406	18.5	1,316	436	128	9,139	8.74
Individual A/C .....	1,023	17,979	17.6	1,744	578	169	13,205	7.25
District Chilled Water .....	28	2,066	72.6	357	118	35	2,173	19.90
Central Chillers .....	142	12,991	91.5	2,310	765	224	15,291	8.48
Packaged A/C Units .....	1,459	27,830	19.1	3,850	1,275	374	28,748	5.68
Swamp Coolers .....	179	2,085	11.7	326	108	32	2,292	17.76
Other .....	Q	268	35.0	37	12	4	220	40.18
<b>Lighting Equipment (more than one may apply)</b>								
Incandescent .....	2,509	39,221	15.6	4,944	1,638	480	36,084	4.64
Standard Fluorescent .....	4,064	62,067	15.3	7,541	2,498	732	55,275	4.01
Compact Fluorescent .....	206	8,335	40.4	1,385	459	134	9,997	8.99
High-Intensity Discharge .....	354	17,569	49.7	2,231	739	217	15,356	7.02
Other .....	78	1,612	20.6	199	66	19	1,508	22.24
<b>Water-Heating Equipment (more than one may apply)</b>								
Centralized System .....	1,994	31,599	15.8	4,185	1,386	406	30,437	5.42
Distributed System .....	1,557	29,500	18.9	3,674	1,217	357	26,294	6.63
<b>Commercial Refrigeration Equipment (more than one may apply)</b>								
Any Equipment .....	970	25,406	26.2	4,067	1,347	395	28,798	5.29
Walk-in Units .....	591	18,680	31.6	3,310	1,096	321	22,858	6.15
Cases and Cabinets .....	783	20,987	26.8	3,462	1,147	336	24,416	5.57
None .....	3,641	41,119	11.3	3,808	1,261	370	28,821	5.26
<b>Personal Computers and/or Computer Terminals</b>								
1 to 4 .....	1,269	13,355	10.5	1,274	422	124	10,068	5.86
5 to 9 .....	336	5,970	17.7	698	231	68	5,315	8.54
10 to 19 .....	216	6,236	28.9	753	250	73	5,405	10.22
20 to 49 .....	164	7,439	45.4	877	291	85	6,343	9.76
50 or More .....	111	14,691	132.3	2,707	897	263	18,514	7.92

See footnotes at end of table.

**Table 3.14. Total Electricity Consumption and Expenditures, 1992 (Continued)**

Building Characteristics	All Buildings Using Electricity			Electricity Consumption			Electricity Expenditures	RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Primary	Site		Total (million dollars)	
				Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)		
RSE Column Factor:	0.9	0.9	0.8	1.1	1.1	1.1	1.1	
<b>Annual Consumption (kilowatthours)</b>								
10,000 or Less .....	1,089	4,749	4.4	55	18	5	622	7.45
10,001 to 50,000 .....	1,772	11,699	6.6	457	151	44	4,420	5.03
50,001 to 100,000 .....	672	7,084	10.5	500	166	49	4,461	6.08
100,001 to 500,000 .....	828	16,041	19.4	1,794	594	174	14,271	4.20
500,001 to 1,000,000 .....	115	6,358	55.2	807	267	78	5,825	8.92
1,000,001 to 5,000,000 .....	117	12,616	107.8	2,339	775	227	15,882	6.92
Over 5,000,000 .....	17	7,978	459.6	1,924	637	187	12,138	11.19
<b>Peak Electricity Demand (kilowatts)</b>								
10 or Less .....	434	2,330	5.4	57	19	6	548	12.86
11 to 25 .....	635	4,410	6.9	233	77	23	2,219	7.96
26 to 50 .....	500	4,994	10.0	466	154	45	3,932	6.92
51 to 100 .....	389	6,929	17.8	758	251	74	6,143	7.50
101 to 250 .....	246	8,410	34.2	1,063	352	103	7,924	7.97
251 to 1,000 .....	141	12,155	86.3	2,042	676	198	14,031	9.87
Over 1,000 .....	30	8,184	269.8	1,860	616	181	11,712	13.92
<b>Season of Peak Electricity Demand</b>								
Summer .....	1,342	29,289	21.8	4,266	1,413	414	30,559	7.38
Winter .....	854	15,679	18.4	1,922	637	187	13,752	8.60
Summer and Winter .....	179	2,444	13.6	290	96	28	2,198	14.57
<b>Building Generates Electricity</b>								
Yes .....	153	10,373	67.7	1,914	634	186	12,741	8.74
No .....	4,458	56,152	12.6	5,962	1,975	579	44,878	4.23

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. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • Site electricity is the amount of electricity delivered to commercial buildings. Primary electricity, which is not included in the "Total of Major Fuels" category, is site electricity plus the conversion losses in the electric generation process at the utility plant. • 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. • 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.



**Table 3.15. Electricity Consumption and Expenditure Intensities, 1992**

Building Characteristics	Electricity Consumption						Electricity Expenditures			RSE Row Factor
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)	
				25th Percentile	Median	75th Percentile				
RSE Column Factor:	1.4	1.0	1.1				1.3	1.0	0.5	
<b>All Buildings</b> .....	166	11.5	10.7	2.6	6.0	14.2	12.5	0.87	0.075	3.28
<b>Building Floorspace (square feet)</b>										
1,001 to 5,000 .....	39	14.0	10.1	2.8	6.6	16.8	3.4	1.22	0.087	4.45
5,001 to 10,000 .....	77	10.4	9.6	2.2	5.1	11.1	6.6	0.90	0.086	6.49
10,001 to 25,000 .....	156	9.7	9.5	2.2	5.3	11.2	12.3	0.77	0.079	4.65
25,001 to 50,000 .....	371	10.3	11.7	2.4	5.1	12.5	27.7	0.77	0.075	6.86
50,001 to 100,000 .....	795	11.4	11.5	3.4	7.2	16.3	59.9	0.86	0.075	5.73
100,001 to 200,000 .....	1,443	10.5	12.3	2.0	7.1	16.3	98.4	0.72	0.068	8.63
200,001 to 500,000 .....	4,195	13.8	14.0	4.1	8.9	18.1	271.6	0.89	0.065	7.61
Over 500,000 .....	10,087	13.1	8.5	4.8	13.1	17.2	718.9	0.93	0.071	10.83
<b>Principal Building Activity</b>										
Education .....	229	8.1	10.0	4.0	7.0	11.4	18.4	0.65	0.080	5.95
Food Sales .....	253	43.6	39.2	20.0	42.3	66.4	17.3	2.97	0.068	8.80
Food Service .....	155	27.0	18.0	15.6	28.9	50.2	12.9	2.25	0.083	7.48
Health Care .....	638	22.9	11.9	6.8	10.8	17.6	41.7	1.50	0.065	8.00
Lodging .....	360	19.2	27.4	5.7	12.2	21.5	26.2	1.39	0.073	12.12
Mercantile and Service .....	103	10.5	8.2	3.1	6.7	13.4	8.4	0.85	0.081	5.54
Office .....	275	16.7	7.6	4.4	9.6	17.6	20.7	1.26	0.075	5.68
Parking Garage .....	480	6.9	52.6	2.6	6.2	10.9	31.4	0.45	0.066	29.47
Public Assembly .....	182	11.1	18.4	1.7	4.3	10.1	12.3	0.75	0.068	8.09
Public Order and Safety .....	136	10.0	10.2	2.9	8.2	11.8	10.3	0.75	0.076	19.72
Religious Worship .....	25	2.5	4.0	1.1	2.4	3.7	2.4	0.24	0.096	8.70
Warehouse and Storage .....	108	6.6	16.8	1.3	3.1	6.1	7.9	0.48	0.073	10.67
Other .....	352	20.3	18.5	1.7	5.5	26.5	22.8	1.32	0.065	14.34
Vacant .....	65	4.1	14.3	0.4	1.6	4.4	5.6	0.35	0.086	15.20
<b>Year Constructed</b>										
1899 or Before .....	67	6.5	7.3	1.1	2.9	6.7	6.1	0.60	0.091	17.06
1900 to 1919 .....	81	5.8	6.5	1.7	4.1	7.8	7.0	0.50	0.087	12.49
1920 to 1945 .....	93	7.6	9.6	1.9	4.4	9.7	7.7	0.63	0.083	8.29
1946 to 1959 .....	116	9.6	10.7	2.2	5.4	13.2	8.9	0.74	0.077	7.57
1960 to 1969 .....	204	12.4	8.7	2.7	7.0	14.6	15.3	0.93	0.075	7.11
1970 to 1979 .....	195	13.4	12.8	3.3	7.3	17.3	14.5	0.99	0.074	5.56
1980 to 1989 .....	237	14.3	12.6	3.5	8.4	18.7	17.0	1.03	0.072	5.00
1990 to 1992 .....	257	12.9	11.8	2.6	5.9	13.2	18.9	0.95	0.074	10.05
<b>Census Region and Division</b>										
Northeast .....	163	9.3	6.6	2.5	5.0	10.8	16.2	0.93	0.100	6.11
New England .....	161	9.2	7.8	2.9	6.2	11.8	15.8	0.90	0.098	7.88
Middle Atlantic .....	163	9.3	6.3	2.3	4.7	10.1	16.4	0.93	0.100	7.94
Midwest .....	160	10.8	12.3	2.1	5.0	11.8	11.2	0.75	0.070	6.29
East North Central .....	152	10.4	11.6	2.1	4.9	11.8	11.5	0.79	0.075	8.44
West North Central .....	173	11.4	13.4	2.5	5.1	11.1	10.7	0.70	0.062	8.96
South .....	157	12.2	12.6	2.6	6.4	15.2	10.2	0.80	0.065	5.54
South Atlantic .....	183	12.9	12.3	2.6	6.5	15.0	12.6	0.89	0.069	7.52
East South Central .....	161	13.1	13.5	2.8	7.0	18.8	9.0	0.74	0.056	10.98
West South Central .....	127	10.8	12.6	2.6	6.2	13.4	8.5	0.72	0.067	8.20
West .....	196	13.4	11.4	3.3	8.0	17.8	16.0	1.09	0.081	6.62
Mountain .....	192	15.2	12.6	3.7	7.4	20.3	12.8	1.02	0.067	14.85
Pacific .....	199	12.6	10.9	3.1	8.4	17.1	17.6	1.12	0.089	7.28
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and --										
More than 7,000 HDD .....	149	10.4	11.8	2.4	5.1	10.6	9.3	0.65	0.063	9.43
5,500-7,000 HDD .....	167	10.3	10.4	2.3	5.0	11.8	13.4	0.83	0.080	6.98
4,000-5,499 HDD .....	168	10.9	8.5	2.4	5.6	13.5	12.8	0.83	0.076	7.26
Fewer than 4,000 HDD .....	184	13.0	11.6	2.7	6.9	17.0	13.9	0.99	0.076	6.83
More than 2,000 CDD and --										
Fewer than 4,000 HDD .....	150	12.6	13.4	3.1	7.3	15.7	11.0	0.92	0.073	8.42

See footnotes at end of table.

**Table 3.15. Electricity Consumption and Expenditure Intensities, 1992 (Continued)**

Building Characteristics	Electricity Consumption						Electricity Expenditures			RSE Row Factor
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)	
				25th Percentile	Median	75th Percentile				
RSE Column Factor:	1.4	1.0	1.1				1.3	1.0	0.5	
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	166	11.5	10.7	2.6	6.0	14.2	12.5	0.87	0.075	3.28
Natural Gas .....	195	11.5	10.1	2.9	6.7	15.0	15.0	0.88	0.077	3.69
Fuel Oil .....	345	14.6	10.6	2.4	4.7	9.4	25.1	1.06	0.073	7.93
District Heat .....	864	15.6	11.4	4.2	9.0	17.0	60.7	1.10	0.070	12.62
District Chilled Water .....	1,230	18.1	12.8	4.9	9.9	19.9	77.1	1.13	0.063	12.60
Propane .....	115	11.4	13.4	2.6	4.9	11.9	9.2	0.91	0.080	9.83
Any Other .....	69	7.1	8.3	1.8	3.2	5.9	5.2	0.54	0.076	14.41
<b>Energy End Uses (more than one may apply)</b>										
Heated Buildings .....	176	11.8	10.5	2.9	6.6	15.0	13.2	0.89	0.075	3.23
Buildings with A/C .....	205	12.6	10.7	3.5	7.7	17.4	15.4	0.94	0.075	3.24
Buildings with Water Heating .....	207	12.4	10.8	3.3	7.4	17.2	15.5	0.93	0.075	3.30
Buildings with Cooking .....	464	14.8	11.0	4.6	12.6	35.8	34.0	1.08	0.073	4.44
Buildings with Manufacturing .....	292	10.9	13.7	3.1	7.3	14.2	22.4	0.84	0.077	12.41
<b>Workers (main shift)</b>										
Less than 5 .....	45	6.8	24.0	1.8	4.1	10.0	3.7	0.56	0.082	6.10
5 to 9 .....	77	9.1	11.9	3.7	7.6	18.5	6.4	0.76	0.084	4.63
10 to 19 .....	154	10.7	12.1	4.1	8.3	17.4	12.0	0.84	0.078	7.67
20 to 49 .....	306	11.7	10.5	5.0	10.3	18.8	23.2	0.89	0.076	5.08
50 to 99 .....	746	12.5	11.6	4.8	9.5	18.0	53.5	0.90	0.072	7.50
100 or More .....	2,882	17.2	8.3	8.3	15.8	24.7	204.2	1.22	0.071	5.11
<b>Weekly Operating Hours</b>										
39 or Fewer .....	27	3.3	6.0	0.8	2.1	4.3	2.5	0.31	0.094	6.85
40 to 48 .....	112	9.5	8.1	2.9	6.1	11.4	8.5	0.72	0.077	5.95
49 to 60 .....	127	9.0	8.1	2.8	5.5	11.2	10.3	0.73	0.081	5.15
61 to 84 .....	220	11.7	11.1	4.9	9.9	19.7	17.8	0.95	0.081	6.70
85 to 167 .....	277	15.6	10.6	6.8	18.3	43.3	21.1	1.19	0.076	6.75
Open Continuously .....	576	20.1	22.1	4.9	13.4	35.2	37.1	1.29	0.064	6.15
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	149	11.7	11.5	2.5	5.8	14.3	11.4	0.89	0.076	3.79
Owner Occupied .....	150	12.2	11.9	2.6	6.0	15.2	11.3	0.93	0.076	4.20
Single Establishment .....	133	12.6	13.4	2.5	6.0	15.4	10.0	0.94	0.075	4.75
Multiple Establishment .....	287	11.2	8.2	2.7	5.9	14.0	23.2	0.90	0.081	7.13
Nonowner Occupied .....	164	10.7	10.2	2.7	6.1	12.5	12.8	0.84	0.078	5.74
Single Establishment .....	135	11.8	13.0	2.8	6.3	13.4	9.5	0.84	0.071	9.38
Multiple Establishment .....	209	9.8	8.4	2.6	5.6	11.0	17.8	0.84	0.085	7.69
Vacant .....	39	3.4	Q	0.3	1.3	2.8	3.5	0.31	0.090	24.26
Government Owned .....	281	10.9	8.6	3.7	7.1	12.8	20.1	0.78	0.072	5.82
<b>Predominant Exterior Wall Material</b>										
Masonry .....	177	11.2	11.8	2.9	6.6	15.4	13.4	0.85	0.076	3.58
Siding or Shingles .....	53	10.4	8.8	1.9	5.1	13.5	4.6	0.89	0.086	7.13
Metal Panels .....	99	9.6	14.4	2.0	4.1	8.9	6.9	0.67	0.070	10.81
Concrete Panels .....	763	13.2	6.3	3.8	8.6	16.3	57.2	0.99	0.075	8.59
Window Glass .....	961	20.5	9.6	7.0	13.5	35.4	71.5	1.53	0.074	12.91
Other .....	353	15.7	7.8	1.7	5.0	6.0	25.1	1.12	0.071	15.47
<b>Predominant Roof Material</b>										
Built-Up .....	238	12.7	12.0	3.3	7.4	17.0	17.6	0.94	0.074	4.28
Shingles (Not Wood) .....	69	8.9	9.6	2.2	5.0	13.0	5.7	0.74	0.083	7.52
Metal Surfacing .....	75	8.2	10.9	2.0	4.4	9.9	5.5	0.60	0.074	7.45
Synthetic or Rubber .....	416	13.6	8.7	3.2	7.4	17.6	30.8	1.00	0.074	5.19
Other .....	189	10.6	12.0	3.0	7.2	15.7	14.5	0.81	0.077	10.41

See footnotes at end of table.

**Table 3.15. Electricity Consumption and Expenditure Intensities, 1992 (Continued)**

Building Characteristics	Electricity Consumption						Electricity Expenditures			RSE Row Factor
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)	
				25th Percentile	Median	75th Percentile				
RSE Column Factor:	1.4	1.0	1.1				1.3	1.0	0.5	
<b>Space-Heating Energy Source</b>										
Electricity .....	233	13.7	11.2	3.6	8.8	20.2	17.1	1.01	0.073	4.75
Electricity Main .....	212	15.1	13.5	4.8	10.5	22.4	15.2	1.08	0.072	5.21
Electricity Secondary .....	291	11.7	8.4	2.6	5.6	11.3	22.3	0.90	0.077	7.27
Other Excluding Electricity .....	143	10.5	10.0	2.6	5.5	12.6	11.1	0.81	0.077	3.68
Building Not Heated .....	73	7.1	20.3	0.6	1.9	4.9	5.4	0.52	0.073	22.05
<b>Main Space-Heating Energy Source</b>										
Electricity .....	212	15.1	13.5	4.8	10.5	22.4	15.2	1.08	0.072	5.21
Natural Gas .....	166	10.7	9.6	2.8	6.2	14.1	12.7	0.82	0.077	3.94
Fuel Oil .....	81	7.2	6.4	2.1	3.9	7.2	7.9	0.71	0.098	6.95
District Heat .....	853	15.9	11.4	4.0	9.0	16.5	59.9	1.12	0.070	10.83
Propane .....	40	7.9	10.9	1.9	3.9	10.2	3.6	0.71	0.089	13.71
Wood .....	15	4.0	Q	1.5	3.2	4.8	1.5	0.40	0.098	14.58
Any Other .....	Q	3.8	7.9	1.9	2.4	5.1	Q	0.23	0.059	30.75
<b>Replacement Energy Source for Main Heating</b>										
Electricity Only .....	63	8.7	9.6	2.5	6.0	13.2	5.2	0.71	0.082	6.71
Natural Gas Only .....	112	10.5	10.8	3.0	6.5	19.3	8.7	0.82	0.078	11.06
Fuel Oil Only .....	473	14.0	15.0	2.5	4.7	12.0	31.5	0.93	0.067	7.98
Propane Only .....	101	9.8	9.7	2.5	5.3	10.8	7.6	0.73	0.075	12.07
Any Other Single Energy Source .....	65	7.7	5.7	2.0	3.5	5.1	Q	0.84	0.108	27.60
More than One Energy Source .....	101	10.5	10.7	2.6	5.9	21.7	7.4	0.77	0.073	16.41
No Replacement Energy Source .....	187	12.0	10.2	3.1	7.0	15.8	14.2	0.91	0.076	3.56
Building Not Heated .....	73	7.1	20.3	0.6	1.9	4.9	5.4	0.52	0.073	22.05
<b>Cooling Energy Source</b>										
Electricity .....	200	12.5	10.7	3.5	7.7	17.4	15.1	0.94	0.076	3.24
Other Excluding Electricity .....	361	14.6	11.1	4.2	8.2	17.9	24.2	0.97	0.067	14.52
A/C Not Performed .....	43	5.0	11.2	0.9	2.5	5.4	3.4	0.40	0.079	13.59
<b>Water-Heating Energy Source</b>										
Electricity .....	190	12.6	11.7	3.3	7.9	17.6	13.7	0.91	0.072	4.46
Other Excluding Electricity .....	222	12.2	10.1	3.4	7.0	16.8	17.1	0.94	0.077	4.01
Water Heating Not Performed .....	37	5.1	10.4	1.0	2.9	6.6	3.0	0.42	0.082	13.42
<b>Cooking Energy Source</b>										
Electricity .....	547	16.0	10.6	4.9	12.2	41.4	38.9	1.14	0.071	5.65
Other Excluding Electricity .....	386	13.4	11.7	4.3	13.0	31.6	29.3	1.02	0.076	6.01
Cooking Not Performed .....	109	9.8	10.5	2.3	5.4	11.9	8.4	0.75	0.077	4.07
<b>Manufacturing Energy Source</b>										
Electricity .....	315	11.5	14.2	3.1	7.3	12.8	23.8	0.87	0.076	13.52
Other Excluding Electricity .....	203	8.2	11.3	3.1	8.1	26.5	16.7	0.68	0.082	17.55
Manufacturing Not Performed .....	162	11.5	10.6	2.6	6.0	14.2	12.2	0.87	0.075	3.47
<b>Percent of Floorspace Heated</b>										
Not Heated .....	73	7.1	20.3	0.6	1.9	4.9	5.4	0.52	0.073	22.05
1 to 50 .....	105	6.5	7.5	1.7	3.6	7.7	8.5	0.52	0.081	8.22
51 to 99 .....	206	12.4	10.6	3.1	7.5	16.1	16.3	0.98	0.079	5.67
100 .....	187	13.2	11.1	3.3	7.5	17.2	13.8	0.97	0.074	3.56
<b>Percent of Floorspace Cooled</b>										
Not Cooled .....	43	5.0	11.2	0.9	2.5	5.4	3.4	0.40	0.079	13.59
1 to 50 .....	119	6.4	10.6	2.6	4.8	9.3	9.6	0.52	0.081	4.56
51 to 99 .....	333	15.8	9.2	4.7	9.6	20.6	24.8	1.18	0.074	5.22
100 .....	214	16.7	12.0	4.3	10.0	21.4	15.7	1.22	0.073	4.34
<b>Percent Lit when Open</b>										
Not Lit .....	22	2.6	46.5	0.2	0.9	2.7	1.9	0.22	0.087	23.98
1 to 50 .....	55	4.9	11.5	1.5	3.1	7.0	4.5	0.40	0.082	11.81
51 to 99 .....	197	11.3	10.7	3.2	7.1	14.9	15.3	0.87	0.078	4.80
100 .....	204	13.6	10.6	3.5	7.7	17.7	15.1	1.01	0.074	3.62

See footnotes at end of table.

**Table 3.15. Electricity Consumption and Expenditure Intensities, 1992 (Continued)**

Building Characteristics	Electricity Consumption						Electricity Expenditures			RSE Row Factor
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)	
				25th Percentile	Median	75th Percentile				
RSE Column Factor:	1.4	1.0	1.1				1.3	1.0	0.5	
<b>Percent Lit when Closed</b>										
Not Lit .....	132	11.2	13.4	2.0	4.7	11.1	9.6	0.81	0.072	4.35
1 to 50 .....	218	11.7	8.9	4.0	8.4	18.6	17.1	0.92	0.079	3.88
51 to 99 .....	386	16.1	13.7	7.1	14.7	41.5	28.9	1.21	0.075	15.50
100 .....	120	11.8	12.5	1.8	7.8	17.6	8.6	0.84	0.072	13.84
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	284	15.4	13.4	4.7	9.8	21.2	19.9	1.08	0.070	7.34
Furnaces .....	92	9.2	7.8	2.8	5.9	13.2	7.3	0.73	0.080	4.45
Individual Space Heaters .....	170	11.1	10.1	2.4	5.2	11.8	12.4	0.81	0.073	4.84
District Heat .....	876	15.7	11.6	4.2	9.0	17.0	61.3	1.10	0.070	9.55
Boilers .....	390	11.8	10.8	2.7	5.1	10.9	28.2	0.85	0.072	4.95
Packaged Heating Units .....	246	13.4	9.4	5.0	9.9	21.8	19.4	1.06	0.079	5.26
Other .....	569	26.8	21.2	6.9	32.1	54.1	37.7	1.77	0.066	14.47
<b>Cooling Equipment (more than one may apply)</b>										
Residential-Type Central A/C .....	116	10.5	9.7	3.4	6.5	13.4	9.0	0.81	0.077	6.35
Heat Pumps .....	282	15.2	13.4	4.7	9.9	21.5	20.1	1.09	0.072	6.94
Individual A/C .....	165	9.4	9.4	2.6	5.3	11.9	12.9	0.73	0.078	5.22
District Chilled Water .....	1,219	16.8	12.8	4.9	9.9	19.3	76.3	1.05	0.063	13.75
Central Chillers .....	1,580	17.3	12.1	6.0	12.2	20.0	107.7	1.18	0.068	6.06
Packaged A/C Units .....	256	13.4	11.4	4.3	9.6	21.2	19.7	1.03	0.077	3.74
Swamp Coolers .....	177	15.2	10.4	4.2	7.8	21.7	12.8	1.10	0.072	10.82
Other .....	473	13.5	14.2	5.1	5.6	16.9	28.8	0.82	0.061	25.27
<b>Lighting Equipment (more than one may apply)</b>										
Incandescent .....	191	12.2	10.3	2.5	6.0	14.8	14.4	0.92	0.075	3.93
Standard Fluorescent .....	180	11.8	10.5	3.0	6.7	15.1	13.6	0.89	0.076	3.17
Compact Fluorescent .....	651	16.1	8.1	3.9	8.6	19.8	48.4	1.20	0.074	7.27
High-Intensity Discharge .....	613	12.3	10.8	3.5	7.2	15.7	43.4	0.87	0.071	6.25
Other .....	247	12.0	9.9	5.1	9.6	18.2	19.3	0.94	0.078	18.21
<b>Water-Heating Equipment (more than one may apply)</b>										
Centralized System .....	204	12.9	11.4	3.4	7.4	16.9	15.3	0.96	0.075	4.21
Distributed System .....	229	12.1	10.5	3.2	7.6	17.6	16.9	0.89	0.074	4.46
<b>Commercial Refrigeration Equipment (more than one may apply)</b>										
Any Equipment .....	407	15.5	12.1	6.0	16.8	39.0	29.7	1.13	0.073	4.06
Walk-in Units .....	544	17.2	12.6	9.2	22.6	52.4	38.7	1.22	0.071	4.45
Cases and Cabinets .....	429	16.0	11.9	6.2	18.8	45.0	31.2	1.16	0.073	4.32
None .....	102	9.0	9.6	2.1	4.9	10.5	7.9	0.70	0.078	4.57
<b>Personal Computers and/or Computer Terminals</b>										
1 to 4 .....	97	9.3	11.8	3.4	7.3	15.5	7.9	0.75	0.081	5.28
5 to 9 .....	201	11.3	11.1	5.2	8.8	16.9	15.8	0.89	0.078	7.26
10 to 19 .....	339	11.7	11.6	4.6	9.0	17.2	25.0	0.87	0.074	7.73
20 to 49 .....	519	11.4	10.6	5.3	10.6	19.2	38.7	0.85	0.074	6.27
50 or More .....	2,366	17.9	8.7	7.4	14.5	23.3	166.7	1.26	0.070	5.60

See footnotes at end of table.

**Table 3.15. Electricity Consumption and Expenditure Intensities, 1992 (Continued)**

Building Characteristics	Electricity Consumption						Electricity Expenditures			RSE Row Factor
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)	
				25th Percentile	Median	75th Percentile				
RSE Column Factor:	1.4	1.0	1.1				1.3	1.0	0.5	
<b>Annual Consumption (kilowatthours)</b>										
10,000 or Less .....	5	1.1	2.1	0.6	1.5	2.9	0.6	0.13	0.116	3.94
10,001 to 50,000 .....	25	3.8	4.9	3.1	5.7	9.9	2.5	0.38	0.100	2.83
50,001 to 100,000 .....	72	6.8	7.7	6.3	10.8	20.7	6.6	0.63	0.092	2.94
100,001 to 500,000 .....	210	10.9	10.7	8.3	17.6	44.9	17.2	0.89	0.082	2.61
500,001 to 1,000,000 .....	680	12.3	12.8	10.6	18.0	31.1	50.6	0.92	0.074	3.58
1,000,001 to 5,000,000 .....	1,940	18.0	14.9	15.0	23.2	50.9	135.7	1.26	0.070	4.60
Over 5,000,000 .....	10,762	23.4	12.1	13.8	24.7	40.0	699.4	1.52	0.065	6.46
<b>Peak Electricity Demand (kilowatts)</b>										
10 or Less .....	13	2.4	4.0	1.4	2.9	5.9	1.3	0.24	0.099	7.35
11 to 25 .....	36	5.1	6.0	3.8	7.0	13.4	3.5	0.50	0.098	5.39
26 to 50 .....	91	9.1	8.7	5.4	11.0	29.8	7.9	0.79	0.087	5.65
51 to 100 .....	189	10.6	10.4	6.1	12.8	30.7	15.8	0.89	0.083	3.78
101 to 250 .....	420	12.3	12.3	8.1	16.8	30.5	32.3	0.94	0.077	4.51
251 to 1,000 .....	1,406	16.3	14.7	10.7	18.6	42.0	99.6	1.15	0.071	6.61
Over 1,000 .....	5,952	22.1	16.4	13.8	23.0	40.0	386.2	1.43	0.065	8.73
<b>Season of Peak Electricity Demand</b>										
Summer .....	309	14.1	12.4	4.6	9.6	20.4	22.8	1.04	0.074	4.44
Winter .....	219	11.9	13.2	3.3	7.5	17.6	16.1	0.88	0.074	6.38
Summer and Winter .....	157	11.5	9.7	2.8	5.9	13.4	12.3	0.90	0.078	14.43
<b>Building Generates Electricity</b>										
Yes .....	1,213	17.9	12.1	5.1	11.8	24.1	83.1	1.23	0.069	6.35
No .....	130	10.3	10.4	2.5	5.9	13.8	10.1	0.80	0.078	3.71

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. • 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. • 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.

**Table 3.16. Electricity Consumption and Conditional Energy Intensity by Census Region, 1992**

Building Characteristics	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/sq. ft.)				RSE Row Factor
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
	1.1	1.2	1.1	1.3	1.1	1.0	0.9	1.1	0.9	0.8	0.8	0.9	
<b>All Buildings</b> .....	123	182	294	166	13,235	16,902	23,972	12,415	9.3	10.8	12.2	13.4	6.81
<b>Building Floorspace (square feet)</b>													
1,001 to 5,000 .....	13	20	45	21	1,037	1,779	3,007	1,161	12.3	11.1	14.9	17.9	11.10
5,001 to 10,000 .....	9	15	28	22	1,337	1,742	2,618	1,359	6.8	8.4	10.6	16.3	12.28
10,001 to 25,000 .....	13	24	38	23	1,652	2,571	3,659	2,216	7.9	9.2	10.4	10.6	11.70
25,001 to 50,000 .....	14	17	45	25	1,912	2,330	3,627	1,988	7.3	7.5	12.5	12.7	14.14
50,001 to 100,000 .....	18	20	30	22	1,731	2,074	2,760	1,361	10.6	9.6	10.9	16.0	15.18
100,001 to 200,000 .....	10	28	39	25	1,598	2,047	3,702	2,311	6.3	13.5	10.6	10.7	17.78
200,001 to 500,000 .....	19	37	30	20	1,665	2,759	1,916	1,337	11.2	13.6	15.4	15.0	18.42
Over 500,000 .....	27	22	39	8	2,303	1,601	2,685	683	11.6	13.5	14.4	11.6	25.30
<b>Principal Building Activity</b>													
Education .....	12	19	22	16	1,968	2,386	2,620	1,496	6.2	7.8	8.2	10.9	12.23
Food Sales .....	Q	8	11	10	Q	182	245	209	Q	43.9	42.8	49.8	21.80
Food Service .....	7	10	14	9	445	432	407	208	14.9	23.6	34.7	45.3	17.88
Health Care .....	7	11	17	6	386	487	597	292	19.0	22.0	27.7	19.7	18.22
Lodging .....	6	8	23	18	616	577	1,043	654	10.0	13.4	22.2	28.0	21.87
Mercantile and Service .....	23	33	51	24	2,798	3,150	4,228	2,212	8.1	10.3	12.1	10.8	11.96
Office .....	37	45	75	49	2,525	2,804	4,152	2,838	14.5	16.0	18.2	17.4	12.48
Parking Garage .....	Q	Q	2	2	Q	455	272	Q	Q	Q	Q	6.5	40.15
Public Assembly .....	6	8	28	8	777	861	2,267	649	8.3	9.6	12.2	12.7	17.93
Public Order and Safety .....	Q	Q	3	Q	269	Q	238	Q	9.2	Q	13.8	Q	31.74
Religious Worship .....	1	2	5	2	452	1,137	1,366	792	1.5	1.8	3.4	2.5	21.47
Warehouse and Storage .....	11	22	31	10	1,736	2,985	4,880	1,579	6.5	7.4	6.4	6.3	23.37
Other .....	3	7	9	4	199	301	381	244	14.3	23.6	23.8	15.6	34.18
Vacant .....	2	2	3	6	571	794	1,092	913	3.4	2.7	3.1	6.8	27.98
<b>Year Constructed</b>													
1899 or Before .....	5	4	Q	Q	676	720	Q	Q	7.0	5.0	Q	Q	27.27
1900 to 1919 .....	7	7	3	3	1,032	1,144	748	477	7.0	5.7	4.3	5.5	28.69
1920 to 1945 .....	13	18	23	9	2,575	2,195	2,513	1,102	5.1	8.3	9.1	8.5	19.36
1946 to 1959 .....	17	20	38	23	2,039	2,591	3,745	1,760	8.3	7.5	10.0	13.2	16.40
1960 to 1969 .....	28	39	55	32	2,476	2,632	4,820	2,545	11.4	14.9	11.4	12.8	14.17
1970 to 1979 .....	24	45	74	41	2,120	3,985	4,824	2,850	11.6	11.3	15.3	14.4	11.76
1980 to 1989 .....	24	42	89	47	2,032	2,971	6,253	2,892	11.7	14.2	14.3	16.2	13.00
1990 to 1992 .....	4	8	11	9	286	663	903	630	14.5	12.1	12.4	13.7	21.99
<b>Climate Zone: 45-Year Average</b>													
Fewer than 2,000 CDD and --													
More than 7,000 HDD .....	Q	42	Q	7	Q	3,939	Q	Q	9.3	10.8	Q	9.5	15.79
5,500-7,000 HDD .....	57	102	Q	23	6,802	9,235	Q	1,682	8.3	11.0	Q	13.9	12.85
4,000-5,499 HDD .....	58	38	59	19	5,592	3,728	4,897	1,748	10.4	10.1	12.1	11.1	12.86
Fewer than 4,000 HDD .....	Q	Q	106	88	Q	Q	7,989	6,875	Q	Q	13.3	12.7	13.90
More than 2,000 CDD and --													
Fewer than 4,000 HDD .....	Q	Q	128	29	Q	Q	11,086	1,415	Q	Q	11.6	20.6	17.72
<b>Energy Sources (more than one may apply)</b>													
Electricity .....	123	182	294	166	13,235	16,902	23,972	12,415	9.3	10.8	12.2	13.4	6.81
Natural Gas .....	78	143	169	129	8,559	13,775	13,355	9,299	9.2	10.4	12.6	13.8	8.41
Fuel Oil .....	55	38	70	28	5,535	2,536	3,579	1,557	10.0	15.0	19.6	18.3	15.72
District Heat .....	19	31	17	15	1,559	1,884	890	912	12.1	16.5	18.8	16.5	22.82
District Chilled Water .....	4	12	12	7	302	532	659	421	12.9	21.9	17.8	17.5	28.53
Propane .....	12	5	18	4	1,041	572	1,514	260	11.2	8.4	11.8	16.5	23.42
Any Other .....	3	2	3	4	444	248	442	407	5.8	7.4	6.7	Q	34.72
<b>Energy End Uses (more than one may apply)</b>													
Heated Buildings .....	121	176	280	155	12,858	16,296	21,634	11,176	9.4	10.8	12.9	13.9	6.84
Buildings with A/C .....	115	170	278	154	11,158	14,382	21,205	10,296	10.3	11.8	13.1	15.0	6.99
Buildings with Water Heating .....	119	178	268	158	12,410	15,459	19,591	11,017	9.6	11.5	13.7	14.4	6.88
Buildings with Cooking .....	70	82	125	64	5,740	5,800	7,768	3,757	12.2	14.2	16.1	16.9	9.69
Buildings with Manufacturing .....	8	8	13	6	756	889	1,039	484	10.4	8.5	13.0	11.9	25.75

See footnotes at end of table.

**Table 3.16. Electricity Consumption and Conditional Energy Intensity by Census Region, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/sq. ft.)				RSE Row Factor
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
	1.1	1.2	1.1	1.3	1.1	1.0	0.9	1.1	0.9	0.8	0.8	0.9	
<b>Workers (main shift)</b>													
Less than 5 .....	13	21	53	25	2,543	4,392	7,072	2,609	5.2	4.8	7.5	9.7	12.43
5 to 9 .....	9	17	28	14	1,328	1,867	3,013	1,316	6.6	9.3	9.4	10.9	11.72
10 to 19 .....	11	17	40	18	1,367	1,848	3,266	1,573	8.3	9.3	12.2	11.2	14.96
20 to 49 .....	16	23	53	32	2,014	2,521	3,818	2,204	7.7	9.1	13.9	14.6	12.85
50 to 99 .....	15	31	27	23	1,899	2,002	2,286	1,577	8.1	15.7	11.8	14.7	17.19
100 or More .....	58	72	92	53	4,085	4,272	4,519	3,135	14.3	16.9	20.4	17.0	12.39
<b>Weekly Operating Hours</b>													
39 or Fewer .....	5	5	10	4	1,255	2,128	2,736	945	3.7	2.3	3.7	4.2	15.60
40 to 48 .....	19	30	66	27	2,263	3,441	6,529	2,712	8.4	8.6	10.1	9.9	13.84
49 to 60 .....	24	27	46	30	2,618	3,459	4,998	2,944	9.0	7.7	9.1	10.0	11.72
61 to 84 .....	21	42	48	30	2,578	3,190	3,784	2,477	8.0	13.3	12.6	12.3	14.90
85 to 167 .....	29	31	41	30	2,486	2,217	1,928	1,824	11.8	14.1	21.1	16.6	14.04
Open Continuously .....	25	47	84	45	2,035	2,466	3,997	1,513	12.5	19.1	21.0	29.7	14.36
<b>Ownership and Occupancy</b>													
Nongovernment Owned .....	91	143	233	135	9,813	12,797	18,980	9,987	9.3	11.2	12.3	13.5	7.53
Owner Occupied .....	73	119	172	103	7,291	10,321	13,428	7,117	9.9	11.6	12.8	14.5	7.99
Single Establishment .....	56	93	144	80	5,240	7,903	11,391	5,218	10.7	11.7	12.7	15.4	10.05
Multiple Establishment .....	16	27	28	23	2,050	2,418	2,038	1,899	8.0	11.1	13.6	12.2	16.51
Nonowner Occupied .....	19	23	60	29	2,343	2,169	5,135	2,508	7.9	10.6	11.7	11.5	15.39
Single Establishment .....	8	8	36	14	1,025	859	2,575	1,062	7.7	9.1	13.9	13.1	22.86
Multiple Establishment .....	11	15	24	15	1,319	1,310	2,561	1,447	8.1	11.6	9.5	10.4	17.66
Vacant .....	Q	1	1	Q	Q	307	417	Q	Q	1.7	2.9	Q	34.59
Government Owned .....	31	39	60	31	3,422	4,105	4,992	2,427	9.2	9.6	12.1	12.9	12.31
<b>Predominant Exterior Wall Material</b>													
Masonry .....	86	129	209	112	9,942	12,708	16,757	8,407	8.6	10.2	12.5	13.3	7.53
Siding or Shingles .....	7	7	10	13	931	945	999	772	7.7	7.8	10.1	17.3	15.59
Metal Panels .....	8	15	35	10	882	1,684	3,809	750	9.0	9.2	9.3	12.9	20.59
Concrete Panels .....	14	12	19	20	1,003	734	1,434	1,735	13.9	16.1	13.1	11.7	21.28
Window Glass .....	Q	Q	15	6	372	Q	692	423	17.6	25.5	21.8	14.8	24.44
Other .....	1	5	Q	Q	106	310	Q	Q	13.4	16.3	Q	Q	27.75
<b>Predominant Roof Material</b>													
Built-Up .....	46	73	160	99	4,837	6,272	11,378	7,269	9.4	11.7	14.1	13.7	9.86
Shingles (Not Wood) .....	16	27	32	18	2,366	3,154	3,086	1,716	6.6	8.6	10.4	10.3	15.27
Metal Surfacing .....	5	17	37	11	817	1,959	4,921	935	5.8	8.8	7.5	12.2	15.97
Synthetic or Rubber .....	47	52	41	18	3,749	4,235	2,611	1,000	12.6	12.2	15.6	17.7	10.97
Other .....	9	13	23	20	1,466	1,282	1,977	1,494	6.5	10.1	11.8	13.4	20.84
<b>Space-Heating Energy Source</b>													
Electricity .....	56	54	164	78	4,505	4,673	11,185	5,273	12.4	11.6	14.7	14.8	10.38
Electricity Main .....	25	26	131	52	1,768	2,169	8,529	3,036	14.0	12.1	15.4	17.2	13.37
Electricity Secondary .....	31	28	33	26	2,737	2,504	2,657	2,237	11.4	11.2	12.5	11.5	16.40
Other Excluding Electricity .....	65	122	115	77	8,353	11,623	10,449	5,903	7.8	10.5	11.0	13.1	8.35
Building Not Heated .....	2	Q	Q	11	377	606	2,338	1,239	4.1	Q	6.0	8.7	28.95

See footnotes at end of table.

**Table 3.16. Electricity Consumption and Conditional Energy Intensity by Census Region, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/sq. ft.)				RSE Row Factor
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
	1.1	1.2	1.1	1.3	1.1	1.0	0.9	1.1	0.9	0.8	0.8	0.9	
<b>Main Space-Heating Energy Source</b>													
Electricity .....	25	26	131	52	1,768	2,169	8,529	3,036	14.0	12.1	15.4	17.2	13.37
Natural Gas .....	53	114	121	87	6,049	11,458	10,631	6,984	8.8	10.0	11.4	12.5	9.74
Fuel Oil .....	23	Q	6	Q	3,202	426	728	Q	7.1	Q	8.4	Q	15.83
District Heat .....	17	30	15	14	1,466	1,682	810	791	11.9	17.6	18.0	17.9	19.29
Propane .....	2	Q	3	Q	158	287	571	Q	14.4	8.3	5.9	Q	32.15
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Main Heating</b>													
Electricity Only .....	2	7	9	4	273	805	1,030	451	5.7	8.6	9.1	9.7	21.88
Natural Gas Only .....	5	5	8	5	665	547	593	454	8.2	9.9	13.3	Q	26.08
Fuel Oil Only .....	16	26	26	8	1,541	2,122	1,382	406	10.2	12.5	18.9	19.0	23.05
Propane Only .....	4	6	5	6	353	772	541	501	10.2	8.0	9.0	12.9	24.50
Any Other Single Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source .....	Q	2	2	Q	Q	243	214	Q	Q	8.4	9.1	Q	37.04
No Replacement Energy Source .....	90	129	228	129	9,581	11,676	17,760	9,137	9.4	11.0	12.9	14.1	7.84
Building Not Heated .....	2	Q	Q	11	377	606	2,338	1,239	4.1	Q	6.0	8.7	28.95
<b>Cooling Energy Source</b>													
Electricity .....	110	157	269	145	10,729	13,544	20,609	9,747	10.3	11.6	13.1	14.9	7.07
Other Excluding Electricity .....	5	13	9	9	429	839	597	549	11.5	15.5	14.2	15.9	27.34
A/C Not Performed .....	8	12	16	12	2,078	2,520	2,767	2,119	3.7	4.9	5.7	5.7	20.53
<b>Water-Heating Energy Source</b>													
Electricity .....	45	62	156	58	4,366	5,643	11,302	4,171	10.4	10.9	13.8	14.0	10.90
Other Excluding Electricity .....	74	116	111	100	8,044	9,817	8,288	6,846	9.2	11.9	13.4	14.6	8.86
Water Heating Not Performed .....	3	4	26	8	825	1,443	4,382	1,398	4.2	2.7	6.0	5.4	18.98
<b>Cooking Energy Source</b>													
Electricity .....	42	47	70	35	2,963	2,832	4,287	2,101	14.2	16.6	16.4	16.6	12.61
Other Excluding Electricity .....	28	35	54	29	2,777	2,968	3,481	1,656	10.0	11.8	15.6	17.4	13.43
Cooking Not Performed .....	53	100	169	102	7,496	11,102	16,204	8,658	7.0	9.0	10.4	11.8	8.94
<b>Percent of Floorspace Heated</b>													
Not Heated .....	2	Q	Q	11	377	606	2,338	1,239	4.1	Q	6.0	8.7	28.95
1 to 50 .....	16	14	25	19	2,583	2,177	4,461	2,285	6.3	6.4	5.7	8.3	20.38
51 to 99 .....	26	22	41	37	2,114	2,243	3,102	2,740	12.3	10.0	13.3	13.5	14.34
100 .....	79	140	213	99	8,161	11,876	14,071	6,151	9.7	11.8	15.1	16.2	7.31
<b>Percent of Floorspace Cooled</b>													
Not Cooled .....	8	12	16	12	2,078	2,520	2,767	2,119	3.7	4.9	5.7	5.7	20.53
1 to 50 .....	34	42	42	22	5,640	6,318	6,482	3,275	6.0	6.6	6.5	6.7	10.87
51 to 99 .....	44	65	65	45	3,049	3,825	4,097	2,902	14.5	17.0	15.8	15.6	10.27
100 .....	37	63	171	87	2,469	4,240	10,627	4,118	14.9	14.9	16.1	21.1	9.77
<b>Percent Lit when Open</b>													
Not Lit .....	Q	1	2	Q	Q	653	594	397	Q	1.3	3.4	4.1	36.28
1 to 50 .....	7	11	21	10	1,763	2,771	3,754	1,688	3.8	4.0	5.7	5.6	15.49
51 to 99 .....	28	43	57	32	3,098	3,914	4,611	2,599	9.0	11.0	12.4	12.3	11.59
100 .....	88	127	213	123	8,085	9,564	15,013	7,731	10.8	13.3	14.2	15.9	8.01

See footnotes at end of table.



**Table 3.16. Electricity Consumption and Conditional Energy Intensity by Census Region, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/sq. ft.)				RSE Row Factor
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
	1.1	1.2	1.1	1.3	1.1	1.0	0.9	1.1	0.9	0.8	0.8	0.9	
<b>Percent Lit when Closed</b>													
Not Lit .....	47	85	148	90	5,713	7,906	12,610	6,905	8.2	10.7	11.7	13.0	9.21
1 to 50 .....	72	94	133	69	7,264	8,577	10,536	5,104	9.9	10.9	12.7	13.6	8.85
51 to 99 .....	Q	2	5	6	Q	205	328	306	Q	11.3	16.4	20.3	28.73
100 .....	Q	1	7	Q	Q	214	498	Q	Q	6.3	14.1	Q	29.61
<b>Heating Equipment (more than one may apply)</b>													
Heat Pumps .....	18	15	63	31	1,328	1,324	3,632	1,985	13.8	11.3	17.3	15.7	15.53
Furnaces .....	28	51	47	28	3,268	5,579	4,969	3,092	8.7	9.2	9.5	9.1	11.58
Individual Space Heaters .....	52	61	93	42	4,907	6,181	7,633	3,643	10.6	9.9	12.1	11.6	11.12
District Heat .....	19	31	17	15	1,553	1,869	927	875	12.2	16.5	18.7	16.9	18.67
Boilers .....	50	69	81	42	6,192	6,477	5,404	2,590	8.1	10.7	15.0	16.4	9.87
Packaged Heating Units .....	35	46	84	49	2,890	3,033	6,440	3,637	12.0	15.1	13.1	13.6	12.71
Other .....	3	Q	Q	Q	180	Q	Q	Q	19.0	Q	Q	Q	31.82
<b>Cooling Equipment (more than one may apply)</b>													
Residential-Type Central A/C .....	14	25	42	14	1,508	2,968	3,455	1,091	9.4	8.3	12.1	12.9	13.59
Heat Pumps .....	16	16	63	33	1,286	1,416	3,745	1,959	12.6	11.3	16.7	16.8	15.73
Individual A/C .....	49	39	64	18	5,806	4,723	5,683	1,767	8.4	8.3	11.2	10.2	13.51
District Chilled Water .....	4	12	12	7	302	684	659	421	12.9	17.1	17.8	17.5	30.50
Central Chillers .....	35	54	91	45	2,519	3,163	4,854	2,456	13.9	17.1	18.7	18.2	12.02
Packaged A/C Units .....	66	90	135	83	5,879	6,563	10,058	5,329	11.2	13.7	13.5	15.5	9.11
Swamp Coolers .....	Q	Q	4	22	Q	Q	335	1,546	Q	Q	12.6	14.1	24.48
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Lighting Equipment (more than one may apply)</b>													
Incandescent .....	86	116	169	108	8,905	10,724	12,240	7,351	9.7	10.8	13.8	14.7	7.72
Standard Fluorescent .....	120	174	278	161	12,733	15,945	21,651	11,737	9.4	10.9	12.8	13.7	6.80
Compact Fluorescent .....	42	28	33	31	2,990	1,846	1,607	1,891	13.9	15.2	20.8	16.6	14.40
High-Intensity Discharge .....	47	69	66	35	4,623	5,840	4,686	2,419	10.1	11.8	14.1	14.3	12.30
Other .....	Q	Q	Q	5	Q	Q	553	437	Q	Q	15.6	10.5	35.26
<b>Commercial Refrigeration Equipment (more than one may apply)</b>													
Any Equipment .....	79	97	142	77	6,350	6,570	8,294	4,192	12.5	14.7	17.1	18.4	8.74
Walk-in Units .....	63	80	117	62	4,873	4,779	6,056	2,971	12.9	16.8	19.3	20.7	9.69
Cases and Cabinets .....	67	84	116	69	5,216	5,429	6,716	3,626	12.8	15.4	17.3	19.1	9.67
None .....	43	85	152	89	6,885	10,332	15,679	8,223	6.3	8.3	9.7	10.8	9.97
<b>Personal Computers and/or Computer Terminals</b>													
1 to 4 .....	18	34	47	25	2,463	3,795	4,591	2,506	7.3	8.9	10.2	10.0	11.27
5 to 9 .....	10	19	23	15	1,133	1,336	2,141	1,360	9.2	14.2	10.8	11.3	16.78
10 to 19 .....	11	13	28	21	1,450	1,373	1,898	1,515	7.6	9.6	15.0	13.6	18.05
20 to 49 .....	15	22	28	20	1,776	2,070	2,202	1,391	8.3	10.8	12.9	14.1	16.59
50 or More .....	52	67	89	55	3,540	3,854	4,321	2,977	14.6	17.3	20.7	18.4	12.19
<b>Annual Consumption (kilowatthours)</b>													
10,000 or Less .....	1	1	2	1	835	1,314	1,937	663	1.2	1.1	1.1	1.1	12.98
10,001 to 50,000 .....	8	10	18	8	2,078	2,871	4,878	1,873	3.8	3.6	3.7	4.3	10.16
50,001 to 100,000 .....	7	12	20	10	1,126	1,805	2,799	1,354	6.3	6.5	7.2	7.1	12.80
100,001 to 500,000 .....	27	38	69	41	3,368	3,997	5,340	3,335	8.0	9.5	12.9	12.2	8.39
500,001 to 1,000,000 .....	10	18	32	18	1,105	1,648	2,188	1,416	8.7	11.2	14.6	12.9	13.45
1,000,001 to 5,000,000 .....	31	52	83	60	2,822	3,425	3,753	2,616	11.0	15.3	22.2	23.1	12.92
Over 5,000,000 .....	39	50	69	28	1,902	1,842	3,077	1,157	20.7	27.1	22.5	24.4	16.38

See footnotes at end of table.

**Table 3.16. Electricity Consumption and Conditional Energy Intensity by Census Region, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/sq. ft.)				RSE Row Factor
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
	RSE Column Factor:	1.1	1.2	1.1	1.3	1.1	1.0	0.9	1.1	0.9	0.8	0.8	
<b>Peak Electricity Demand (kilowatts)</b>													
10 or Less .....	1	1	2	1	461	494	1,146	229	2.9	2.7	2.0	2.8	22.88
11 to 25 .....	6	4	10	3	1,220	999	1,756	435	4.9	4.4	5.4	6.3	17.66
26 to 50 .....	10	7	20	8	1,165	976	2,010	843	8.5	7.4	9.9	9.8	17.39
51 to 100 .....	10	14	33	16	1,491	1,393	2,670	1,374	7.0	10.0	12.4	11.7	14.03
101 to 250 .....	15	23	42	23	1,594	1,988	3,175	1,653	9.4	11.4	13.3	14.0	13.77
251 to 1,000 .....	29	39	76	55	2,475	2,798	4,194	2,688	11.6	13.9	18.2	20.3	16.40
Over 1,000 .....	23	53	73	31	1,203	2,241	3,445	1,296	19.3	23.7	21.3	23.6	16.94
<b>Season of Peak Electricity Demand</b>													
Summer .....	62	101	157	95	5,224	7,057	11,089	5,919	11.8	14.3	14.1	16.1	11.14
Winter .....	30	37	88	32	3,769	3,399	6,411	2,100	7.9	10.8	13.7	15.4	14.64
Summer and Winter .....	3	4	12	9	616	433	896	499	4.8	9.4	13.8	17.5	24.23
<b>Building Generates Electricity</b>													
Yes .....	39	42	67	38	2,792	2,543	2,981	2,057	14.0	16.4	22.6	18.4	13.15
No .....	84	141	226	128	10,444	14,359	20,991	10,358	8.0	9.8	10.8	12.4	7.75

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.17. Electricity Expenditures by Census Region, 1992**

Building Characteristics	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars)								RSE Row Factor
					per kWh				per Square Foot				
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
RSE Column Factor:	1.6	1.7	1.5	1.9	0.6	0.6	0.4	0.5	1.3	1.2	1.1	1.4	
<b>All Buildings</b> .....	12,250	12,745	19,097	13,527	0.10	0.07	0.07	0.08	0.93	0.75	0.80	1.09	5.00
<b>Building Floorspace (square feet)</b>													
1,001 to 5,000 .....	1,491	1,578	3,510	1,958	0.12	0.08	0.08	0.09	1.44	0.89	1.17	1.69	7.78
5,001 to 10,000 .....	1,164	1,154	2,020	1,998	0.13	0.08	0.07	0.09	0.87	0.66	0.77	1.47	8.89
10,001 to 25,000 .....	1,416	1,702	2,675	1,964	0.11	0.07	0.07	0.08	0.86	0.66	0.73	0.89	8.18
25,001 to 50,000 .....	1,372	1,320	2,995	1,933	0.10	0.08	0.07	0.08	0.72	0.57	0.83	0.97	10.04
50,001 to 100,000 .....	1,755	1,405	1,946	1,699	0.10	0.07	0.06	0.08	1.01	0.68	0.71	1.25	10.33
100,001 to 200,000 .....	945	1,797	2,245	1,948	0.09	0.07	0.06	0.08	0.59	0.88	0.61	0.84	12.02
200,001 to 500,000 .....	1,612	2,209	1,616	1,409	0.09	0.06	0.05	0.07	0.97	0.80	0.84	1.05	14.33
Over 500,000 .....	2,495	1,579	2,090	618	0.09	0.07	0.05	0.08	1.08	0.99	0.78	0.91	14.68
<b>Principal Building Activity</b>													
Education .....	1,185	1,447	1,501	1,393	0.10	0.08	0.07	0.09	0.60	0.61	0.57	0.93	8.76
Food Sales .....	Q	510	682	713	Q	0.06	0.06	0.07	Q	2.80	2.78	3.42	14.13
Food Service .....	760	775	1,031	794	0.11	0.08	0.07	0.08	1.71	1.80	2.53	3.82	12.36
Health Care .....	623	649	887	480	0.08	0.06	0.05	0.08	1.61	1.33	1.49	1.64	12.36
Lodging .....	604	461	1,456	1,510	0.10	0.06	0.06	0.08	0.98	0.80	1.40	2.31	15.21
Mercantile and Service .....	2,472	2,535	3,502	2,074	0.11	0.08	0.07	0.09	0.88	0.80	0.83	0.94	8.84
Office .....	3,522	3,277	4,823	3,888	0.10	0.07	0.06	0.08	1.40	1.17	1.16	1.37	8.13
Parking Garage .....	Q	Q	131	116	Q	Q	0.06	0.07	Q	Q	Q	Q	24.00
Public Assembly .....	621	570	1,615	624	0.10	0.07	0.06	0.08	0.80	0.66	0.71	0.96	11.54
Public Order and Safety .....	253	Q	199	Q	0.10	Q	0.06	Q	0.94	Q	0.84	Q	22.36
Religious Worship .....	83	178	429	199	0.12	0.09	0.09	0.10	0.18	0.16	0.31	0.25	13.07
Warehouse and Storage .....	1,135	1,306	2,049	896	0.10	0.06	0.07	0.09	0.65	0.44	0.42	0.57	14.40
Other .....	274	413	536	256	0.10	0.06	0.06	0.07	1.38	1.37	1.41	1.05	19.29
Vacant .....	214	159	254	545	0.11	0.07	0.07	0.09	0.37	0.20	0.23	0.60	18.77
<b>Year Constructed</b>													
1899 or Before .....	545	279	Q	Q	0.11	0.08	Q	Q	0.81	0.39	Q	Q	19.72
1900 to 1919 .....	822	478	240	172	0.11	0.07	0.07	0.07	0.80	0.42	0.32	0.36	19.86
1920 to 1945 .....	1,459	1,451	1,583	770	0.11	0.08	0.07	0.08	0.57	0.66	0.63	0.70	12.01
1946 to 1959 .....	1,617	1,386	2,571	1,903	0.10	0.07	0.07	0.08	0.79	0.53	0.69	1.08	11.74
1960 to 1969 .....	2,813	2,576	3,581	2,647	0.10	0.07	0.07	0.08	1.14	0.98	0.74	1.04	9.95
1970 to 1979 .....	2,315	3,157	4,717	3,470	0.09	0.07	0.06	0.08	1.09	0.79	0.98	1.22	8.79
1980 to 1989 .....	2,273	2,825	5,629	3,784	0.10	0.07	0.06	0.08	1.12	0.95	0.90	1.31	8.90
1990 to 1992 .....	408	592	695	659	0.10	0.07	0.06	0.08	1.42	0.89	0.77	1.05	15.75
<b>Climate Zone: 45-Year Average</b>													
Fewer than 2,000 CDD and --													
More than 7,000 HDD .....	Q	2,421	Q	379	0.10	0.06	Q	0.06	0.89	0.61	Q	0.55	11.40
5,500-7,000 HDD .....	5,579	7,693	Q	1,353	0.10	0.08	Q	0.06	0.82	0.83	Q	0.80	8.48
4,000-5,499 HDD .....	5,919	2,630	3,648	1,082	0.10	0.07	0.06	0.06	1.06	0.71	0.74	0.62	8.11
Fewer than 4,000 HDD .....	Q	Q	6,481	8,207	Q	Q	0.06	0.09	Q	Q	0.81	1.19	8.73
More than 2,000 CDD and --													
Fewer than 4,000 HDD .....	Q	Q	8,968	2,507	Q	Q	0.07	0.09	Q	Q	0.81	1.77	11.16
<b>Energy Sources (more than one may apply)</b>													
Electricity .....	12,250	12,745	19,097	13,527	0.10	0.07	0.07	0.08	0.93	0.75	0.80	1.09	5.00
Natural Gas .....	8,031	10,307	10,867	10,563	0.10	0.07	0.06	0.08	0.94	0.75	0.81	1.14	5.92
Fuel Oil .....	5,465	2,426	4,109	2,002	0.10	0.06	0.06	0.07	0.99	0.96	1.15	1.29	9.90
District Heat .....	1,856	1,883	940	1,067	0.10	0.06	0.06	0.07	1.19	1.00	1.06	1.17	16.75
District Chilled Water .....	313	593	650	Q	0.08	0.05	0.06	0.08	1.04	1.11	0.99	1.46	14.49
Propane .....	1,089	310	1,314	372	0.09	0.06	0.07	0.09	1.05	0.54	0.87	1.43	14.91
Any Other .....	242	126	194	270	0.09	0.07	0.07	0.08	0.55	0.51	0.44	Q	21.90

See footnotes at end of table.

**Table 3.17. Electricity Expenditures by Census Region, 1992 (Continued)**

Building Characteristics	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars)								RSE Row Factor
					per kWh				per Square Foot				
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
RSE Column Factor:	1.6	1.7	1.5	1.9	0.6	0.6	0.4	0.5	1.3	1.2	1.1	1.4	
<b>Energy End Uses (more than one may apply)</b>													
Heated Buildings .....	12,075	12,435	18,188	12,568	0.10	0.07	0.07	0.08	0.94	0.76	0.84	1.12	5.02
Buildings with A/C .....	11,416	11,864	18,136	12,409	0.10	0.07	0.07	0.08	1.02	0.82	0.86	1.21	5.12
Buildings with Water Heating .....	11,844	12,403	17,222	12,783	0.10	0.07	0.06	0.08	0.95	0.80	0.88	1.16	5.06
Buildings with Cooking .....	6,669	5,741	7,590	4,939	0.10	0.07	0.06	0.08	1.16	0.99	0.98	1.31	7.33
Buildings with Manufacturing .....	893	447	879	431	0.11	0.06	0.07	0.07	1.18	0.50	0.85	0.89	15.78
<b>Workers (main shift)</b>													
Less than 5 .....	1,508	1,688	3,737	2,303	0.11	0.08	0.07	0.09	0.59	0.38	0.53	0.88	8.02
5 to 9 .....	1,027	1,326	2,159	1,241	0.12	0.08	0.08	0.09	0.77	0.71	0.72	0.94	7.78
10 to 19 .....	1,288	1,240	2,644	1,564	0.11	0.07	0.07	0.09	0.94	0.67	0.81	0.99	9.94
20 to 49 .....	1,660	1,612	3,518	2,583	0.11	0.07	0.07	0.08	0.82	0.64	0.92	1.17	8.84
50 to 99 .....	1,551	2,033	1,677	1,692	0.10	0.06	0.06	0.07	0.82	1.02	0.73	1.07	11.42
100 or More .....	5,216	4,846	5,361	4,144	0.09	0.07	0.06	0.08	1.28	1.13	1.19	1.32	8.34
<b>Weekly Operating Hours</b>													
39 or Fewer .....	534	425	884	380	0.11	0.09	0.09	0.10	0.43	0.20	0.32	0.40	10.96
40 to 48 .....	1,949	2,220	4,374	2,279	0.10	0.07	0.07	0.08	0.86	0.64	0.67	0.84	9.05
49 to 60 .....	2,459	2,012	3,167	2,558	0.10	0.08	0.07	0.09	0.94	0.58	0.63	0.87	8.87
61 to 84 .....	2,176	3,415	3,276	2,522	0.11	0.08	0.07	0.08	0.84	1.07	0.87	1.02	9.76
85 to 167 .....	2,958	2,039	2,613	2,420	0.10	0.07	0.06	0.08	1.19	0.92	1.36	1.33	9.66
Open Continuously .....	2,173	2,633	4,783	3,367	0.09	0.06	0.06	0.07	1.07	1.07	1.20	2.23	9.80
<b>Ownership and Occupancy</b>													
Nongovernment Owned .....	9,290	10,162	15,423	11,127	0.10	0.07	0.07	0.08	0.95	0.79	0.81	1.11	5.63
Owner Occupied .....	7,198	8,389	11,442	8,409	0.10	0.07	0.07	0.08	0.99	0.81	0.85	1.18	6.34
Single Establishment .....	5,430	6,378	9,641	6,412	0.10	0.07	0.07	0.08	1.04	0.81	0.85	1.23	7.57
Multiple Establishment .....	1,767	2,011	1,802	1,996	0.11	0.08	0.07	0.09	0.86	0.83	0.88	1.05	10.46
Nonowner Occupied .....	2,053	1,724	3,879	2,516	0.11	0.08	0.06	0.09	0.88	0.79	0.76	1.00	10.29
Single Establishment .....	778	550	2,133	1,166	0.10	0.07	0.06	0.08	0.76	0.64	0.83	1.10	13.94
Multiple Establishment .....	1,275	1,174	1,746	1,350	0.12	0.08	0.07	0.09	0.97	0.90	0.68	0.93	12.52
Vacant .....	Q	48	101	Q	Q	0.09	0.08	Q	Q	0.16	0.24	Q	21.99
Government Owned .....	2,960	2,583	3,674	2,400	0.09	0.07	0.06	0.08	0.86	0.63	0.74	0.99	8.71
<b>Predominant Exterior Wall Material</b>													
Masonry .....	8,650	9,089	13,718	9,039	0.10	0.07	0.07	0.08	0.87	0.72	0.82	1.08	5.61
Siding or Shingles .....	806	549	778	1,127	0.11	0.07	0.08	0.08	0.87	0.58	0.78	1.46	10.79
Metal Panels .....	735	1,061	2,230	760	0.09	0.07	0.06	0.08	0.83	0.63	0.59	1.01	13.44
Concrete Panels .....	1,354	721	1,150	1,643	0.10	0.06	0.06	0.08	1.35	0.98	0.80	0.95	15.31
Window Glass .....	572	Q	928	562	0.09	0.08	0.06	0.09	1.54	1.93	1.34	1.33	15.06
Other .....	134	320	Q	Q	0.09	0.06	Q	Q	1.27	1.03	Q	Q	15.40
<b>Predominant Roof Material</b>													
Built-Up .....	4,643	5,134	10,213	8,123	0.10	0.07	0.06	0.08	0.96	0.82	0.90	1.12	6.71
Shingles (Not Wood) .....	1,740	2,073	2,342	1,494	0.11	0.08	0.07	0.08	0.74	0.66	0.76	0.87	10.09
Metal Surfacing .....	557	1,204	2,581	851	0.12	0.07	0.07	0.07	0.68	0.61	0.52	0.91	11.37
Synthetic or Rubber .....	4,455	3,462	2,410	1,307	0.09	0.07	0.06	0.07	1.19	0.82	0.92	1.31	8.18
Other .....	854	872	1,551	1,752	0.09	0.07	0.07	0.09	0.58	0.68	0.78	1.17	13.25
<b>Space-Heating Energy Source</b>													
Electricity .....	5,122	3,791	10,596	6,347	0.09	0.07	0.06	0.08	1.14	0.81	0.95	1.20	7.44
Electricity Main .....	2,164	1,863	8,496	4,259	0.09	0.07	0.06	0.08	1.22	0.86	1.00	1.40	10.40
Electricity Secondary .....	2,958	1,927	2,101	2,088	0.09	0.07	0.06	0.08	1.08	0.77	0.79	0.93	10.80
Other Excluding Electricity .....	6,953	8,644	7,591	6,221	0.11	0.07	0.07	0.08	0.83	0.74	0.73	1.05	5.99
Building Not Heated .....	176	Q	909	959	0.11	Q	0.06	0.09	0.47	Q	0.39	0.77	20.27

See footnotes at end of table.

**Table 3.17. Electricity Expenditures by Census Region, 1992 (Continued)**

Building Characteristics	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars)								RSE Row Factor
					per kWh				per Square Foot				
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
RSE Column Factor:	1.6	1.7	1.5	1.9	0.6	0.6	0.4	0.5	1.3	1.2	1.1	1.4	
<b>Main Space-Heating Energy Source</b>													
Electricity .....	2,164	1,863	8,496	4,259	0.09	0.07	0.06	0.08	1.22	0.86	1.00	1.40	10.40
Natural Gas .....	5,419	8,363	7,919	7,164	0.10	0.07	0.07	0.08	0.90	0.73	0.74	1.03	6.48
Fuel Oil .....	2,463	Q	462	Q	0.11	0.07	0.08	Q	0.77	0.40	0.64	Q	13.57
District Heat .....	1,707	1,796	821	997	0.10	0.06	0.06	0.07	1.16	1.07	1.01	1.26	14.22
Propane .....	235	165	293	Q	0.10	0.07	0.09	Q	1.49	0.58	0.51	Q	21.98
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Main Heating</b>													
Electricity Only .....	175	574	691	385	0.11	0.08	0.07	0.09	0.64	0.71	0.67	0.85	13.12
Natural Gas Only .....	507	341	602	404	0.09	0.06	0.08	0.08	0.76	0.62	1.01	Q	17.53
Fuel Oil Only .....	1,494	1,515	1,534	519	0.10	0.06	0.06	0.07	0.97	0.71	1.11	1.28	14.54
Propane Only .....	339	422	312	514	0.09	0.07	0.06	0.08	0.96	0.55	0.58	1.03	16.70
Any Other Single Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source .....	Q	125	146	Q	Q	0.06	0.07	Q	Q	0.51	0.68	Q	24.18
No Replacement Energy Source .....	9,097	9,391	14,841	10,525	0.10	0.07	0.06	0.08	0.95	0.80	0.84	1.15	5.86
Building Not Heated .....	176	Q	909	959	0.11	Q	0.06	0.09	0.47	Q	0.39	0.77	20.27
<b>Cooling Energy Source</b>													
Electricity .....	10,932	11,154	17,653	11,734	0.10	0.07	0.07	0.08	1.02	0.82	0.86	1.20	5.20
Other Excluding Electricity .....	484	710	483	675	0.10	0.05	0.06	0.08	1.13	0.85	0.81	1.23	17.05
A/C Not Performed .....	834	881	961	1,118	0.11	0.07	0.06	0.09	0.40	0.35	0.35	0.53	14.06
<b>Water-Heating Energy Source</b>													
Electricity .....	4,389	4,316	10,040	4,558	0.10	0.07	0.06	0.08	1.01	0.76	0.89	1.09	7.80
Other Excluding Electricity .....	7,455	8,088	7,182	8,224	0.10	0.07	0.06	0.08	0.93	0.82	0.87	1.20	6.24
Water Heating Not Performed .....	407	341	1,875	744	0.12	0.09	0.07	0.10	0.49	0.24	0.43	0.53	12.84
<b>Cooking Energy Source</b>													
Electricity .....	3,812	3,206	4,218	2,616	0.09	0.07	0.06	0.07	1.29	1.13	0.98	1.25	9.59
Other Excluding Electricity .....	2,856	2,535	3,372	2,322	0.10	0.07	0.06	0.08	1.03	0.85	0.97	1.40	10.10
Cooking Not Performed .....	5,581	7,003	11,507	8,588	0.11	0.07	0.07	0.08	0.74	0.63	0.71	0.99	5.90
<b>Percent of Floorspace Heated</b>													
Not Heated .....	176	Q	909	959	0.11	Q	0.06	0.09	0.47	Q	0.39	0.77	20.27
1 to 50 .....	1,679	924	1,817	1,618	0.10	0.07	0.07	0.09	0.65	0.42	0.41	0.71	13.11
51 to 99 .....	2,545	1,602	2,764	3,124	0.10	0.07	0.07	0.08	1.20	0.71	0.89	1.14	9.70
100 .....	7,851	9,909	13,606	7,826	0.10	0.07	0.06	0.08	0.96	0.83	0.97	1.27	5.83
<b>Percent of Floorspace Cooled</b>													
Not Cooled .....	834	881	961	1,118	0.11	0.07	0.06	0.09	0.40	0.35	0.35	0.53	14.06
1 to 50 .....	3,530	2,896	3,084	1,786	0.10	0.07	0.07	0.08	0.63	0.46	0.48	0.55	7.86
51 to 99 .....	4,275	4,473	4,072	3,482	0.10	0.07	0.06	0.08	1.40	1.17	0.99	1.20	7.25
100 .....	3,610	4,495	10,980	7,141	0.10	0.07	0.06	0.08	1.46	1.06	1.03	1.73	6.96
<b>Percent Lit when Open</b>													
Not Lit .....	Q	72	155	Q	Q	0.08	0.08	0.09	Q	0.11	0.26	0.38	20.65
1 to 50 .....	782	848	1,473	873	0.12	0.08	0.07	0.09	0.44	0.31	0.39	0.52	10.40
51 to 99 .....	3,007	3,183	3,546	2,698	0.11	0.07	0.06	0.08	0.97	0.81	0.77	1.04	7.92
100 .....	8,411	8,642	13,923	9,804	0.10	0.07	0.07	0.08	1.04	0.90	0.93	1.27	5.87
<b>Percent Lit when Closed</b>													
Not Lit .....	4,567	5,421	9,415	7,300	0.10	0.06	0.06	0.08	0.80	0.69	0.75	1.06	6.67
1 to 50 .....	7,270	7,077	8,892	5,699	0.10	0.08	0.07	0.08	1.00	0.83	0.84	1.12	6.27
51 to 99 .....	Q	153	314	468	Q	0.07	0.06	0.08	Q	0.75	0.96	1.53	17.65
100 .....	Q	93	475	Q	Q	0.07	0.07	Q	Q	0.44	0.96	Q	20.90

See footnotes at end of table.

**Table 3.17. Electricity Expenditures by Census Region, 1992 (Continued)**

Building Characteristics	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars)								RSE Row Factor
					per kWh				per Square Foot				
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
RSE Column Factor:	1.6	1.7	1.5	1.9	0.6	0.6	0.4	0.5	1.3	1.2	1.1	1.4	
<b>Heating Equipment (more than one may apply)</b>													
Heat Pumps .....	1,497	966	3,944	2,532	0.08	0.06	0.06	0.08	1.13	0.73	1.09	1.28	11.31
Furnaces .....	3,088	3,652	3,364	2,227	0.11	0.07	0.07	0.08	0.94	0.65	0.68	0.72	7.61
Individual Space Heaters .....	4,725	4,256	5,940	3,176	0.09	0.07	0.06	0.08	0.96	0.69	0.78	0.87	7.69
District Heat .....	1,855	1,864	957	1,048	0.10	0.06	0.06	0.07	1.19	1.00	1.03	1.20	13.23
Boilers .....	4,862	4,790	4,723	3,238	0.10	0.07	0.06	0.08	0.79	0.74	0.87	1.25	7.36
Packaged Heating Units .....	3,526	3,180	5,844	4,351	0.10	0.07	0.07	0.09	1.22	1.05	0.91	1.20	8.48
Other .....	312	Q	Q	Q	0.09	Q	Q	Q	1.73	Q	Q	Q	19.15
<b>Cooling Equipment (more than one may apply)</b>													
Residential-Type Central A/C .....	1,534	1,804	2,875	1,110	0.11	0.07	0.07	0.08	1.02	0.61	0.83	1.02	9.61
Heat Pumps .....	1,496	1,037	3,949	2,658	0.09	0.07	0.06	0.08	1.16	0.73	1.05	1.36	10.18
Individual A/C .....	5,078	2,658	4,042	1,427	0.10	0.07	0.06	0.08	0.87	0.56	0.71	0.81	9.06
District Chilled Water .....	313	596	650	Q	0.08	0.05	0.06	0.08	1.04	0.87	0.99	1.46	15.85
Central Chillers .....	3,112	3,781	5,116	3,282	0.09	0.07	0.06	0.07	1.24	1.20	1.05	1.34	8.89
Packaged A/C Units .....	6,518	6,262	9,035	6,933	0.10	0.07	0.07	0.08	1.11	0.95	0.90	1.30	6.22
Swamp Coolers .....	Q	Q	306	1,637	Q	Q	0.07	0.08	Q	Q	0.91	1.06	12.15
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Lighting Equipment (more than one may apply)</b>													
Incandescent .....	8,493	8,015	10,847	8,730	0.10	0.07	0.06	0.08	0.95	0.75	0.89	1.19	5.76
Standard Fluorescent .....	11,953	12,253	18,077	12,991	0.10	0.07	0.07	0.08	0.94	0.77	0.83	1.11	4.99
Compact Fluorescent .....	3,661	1,755	2,087	2,493	0.09	0.06	0.06	0.08	1.22	0.95	1.30	1.32	9.92
High-Intensity Discharge .....	4,306	4,405	4,007	2,638	0.09	0.06	0.06	0.08	0.93	0.75	0.86	1.09	8.97
Other .....	Q	Q	Q	383	Q	Q	0.07	0.08	Q	Q	1.06	0.88	21.61
<b>Commercial Refrigeration Equipment (more than one may apply)</b>													
Any Equipment .....	7,475	6,637	8,707	5,980	0.09	0.07	0.06	0.08	1.18	1.01	1.05	1.43	6.43
Walk-in Units .....	5,830	5,406	7,016	4,606	0.09	0.07	0.06	0.07	1.20	1.13	1.16	1.55	6.94
Cases and Cabinets .....	6,314	5,694	7,068	5,340	0.09	0.07	0.06	0.08	1.21	1.05	1.05	1.47	7.18
None .....	4,775	6,108	10,390	7,547	0.11	0.07	0.07	0.08	0.69	0.59	0.66	0.92	6.75
<b>Personal Computers and/or Computer Terminals</b>													
1 to 4 .....	2,114	2,326	3,479	2,150	0.12	0.07	0.07	0.09	0.86	0.61	0.76	0.86	8.71
5 to 9 .....	1,077	1,340	1,567	1,331	0.10	0.07	0.07	0.09	0.95	1.00	0.73	0.98	11.98
10 to 19 .....	1,036	890	1,829	1,650	0.09	0.07	0.06	0.08	0.71	0.65	0.96	1.09	11.51
20 to 49 .....	1,482	1,468	1,842	1,552	0.10	0.07	0.06	0.08	0.83	0.71	0.84	1.12	10.23
50 or More .....	4,677	4,541	5,154	4,142	0.09	0.07	0.06	0.08	1.32	1.18	1.19	1.39	8.31
<b>Annual Consumption (kilowatthours)</b>													
10,000 or Less .....	134	160	244	84	0.14	0.11	0.11	0.12	0.16	0.12	0.13	0.13	8.53
10,001 to 50,000 .....	1,021	939	1,618	842	0.13	0.09	0.09	0.10	0.49	0.33	0.33	0.45	6.32
50,001 to 100,000 .....	848	976	1,689	947	0.12	0.08	0.08	0.10	0.75	0.54	0.60	0.70	8.38
100,001 to 500,000 .....	3,017	2,815	4,879	3,559	0.11	0.07	0.07	0.09	0.90	0.70	0.91	1.07	5.86
500,001 to 1,000,000 .....	918	1,333	2,079	1,495	0.10	0.07	0.06	0.08	0.83	0.81	0.95	1.06	9.81
1,000,001 to 5,000,000 .....	2,879	3,528	4,916	4,559	0.09	0.07	0.06	0.08	1.02	1.03	1.31	1.74	8.60
Over 5,000,000 .....	3,433	2,993	3,671	2,042	0.09	0.06	0.05	0.07	1.80	1.63	1.19	1.76	10.95

See footnotes at end of table.

**Table 3.17. Electricity Expenditures by Census Region, 1992 (Continued)**

Building Characteristics	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars)								RSE Row Factor
					per kWh				per Square Foot				
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
RSE Column Factor:	1.6	1.7	1.5	1.9	0.6	0.6	0.4	0.5	1.3	1.2	1.1	1.4	
<b>Peak Electricity Demand (kilowatts)</b>													
10 or Less .....	151	122	208	67	0.11	0.09	0.09	0.11	0.33	0.25	0.18	0.29	14.20
11 to 25 .....	733	398	817	270	0.12	0.09	0.09	0.10	0.60	0.40	0.47	0.62	10.71
26 to 50 .....	1,124	547	1,493	767	0.11	0.08	0.08	0.09	0.97	0.56	0.74	0.91	11.86
51 to 100 .....	1,208	1,068	2,310	1,558	0.12	0.08	0.07	0.10	0.81	0.77	0.86	1.13	9.15
101 to 250 .....	1,508	1,577	2,917	1,921	0.10	0.07	0.07	0.08	0.95	0.79	0.92	1.16	9.18
251 to 1,000 .....	2,642	2,522	4,597	4,270	0.09	0.07	0.06	0.08	1.07	0.90	1.10	1.59	10.96
Over 1,000 .....	1,961	3,372	3,994	2,385	0.08	0.06	0.05	0.08	1.63	1.50	1.16	1.84	11.41
<b>Season of Peak Electricity Demand</b>													
Summer .....	6,161	6,890	9,624	7,884	0.10	0.07	0.06	0.08	1.18	0.98	0.87	1.33	7.76
Winter .....	2,844	2,444	5,864	2,600	0.10	0.07	0.07	0.08	0.75	0.72	0.91	1.24	10.89
Summer and Winter .....	323	274	848	753	0.11	0.07	0.07	0.09	0.52	0.63	0.95	1.51	17.34
<b>Building Generates Electricity</b>													
Yes .....	3,464	2,719	3,824	2,734	0.09	0.07	0.06	0.07	1.24	1.07	1.28	1.33	8.94
No .....	8,786	10,026	15,273	10,793	0.10	0.07	0.07	0.08	0.84	0.70	0.73	1.04	5.63

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.18. Electricity Consumption and Conditional Energy Intensity by Building Size, 1992**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	1.0	1.1	1.5	0.8	0.8	1.4	0.8	0.8	1.1	
<b>All Buildings</b> .....	172	290	303	14,039	27,879	24,607	12.2	10.4	12.3	5.38
<b>Principal Building Activity</b>										
Education .....	6	34	29	599	4,594	3,277	10.4	7.4	8.7	11.05
Food Sales .....	17	16	Q	369	388	Q	44.7	42.5	Q	18.44
Food Service .....	32	8	Q	828	609	Q	39.1	13.0	Q	16.40
Health Care .....	2	6	32	171	306	1,285	13.2	19.9	24.9	17.77
Lodging .....	13	29	14	454	1,543	894	27.6	18.6	15.8	21.74
Mercantile and Service .....	47	44	40	4,177	4,641	3,570	11.2	9.4	11.2	10.48
Office .....	26	83	97	2,266	4,835	5,218	11.6	17.2	18.5	9.57
Parking Garage .....	Q	Q	Q	Q	Q	1,461	Q	Q	Q	6.9
Public Assembly .....	7	17	28	931	1,815	1,809	7.0	9.2	15.2	16.75
Public Order and Safety .....	2	4	Q	199	344	Q	8.6	10.4	Q	27.06
Religious Worship .....	4	5	Q	1,126	1,951	Q	3.4	2.5	Q	12.78
Warehouse and Storage .....	11	28	36	2,005	4,831	4,343	5.4	5.7	8.3	13.78
Other .....	3	12	8	196	500	428	14.2	24.9	17.8	29.78
Vacant .....	3	4	7	656	1,395	1,320	4.0	3.1	5.0	25.66
<b>Year Constructed</b>										
1899 or Before .....	4	5	Q	648	923	Q	6.6	5.7	Q	27.40
1900 to 1919 .....	6	8	6	843	1,272	1,286	7.5	6.1	4.3	20.75
1920 to 1945 .....	21	20	23	2,151	3,519	2,715	9.5	5.6	8.5	14.84
1946 to 1959 .....	27	42	28	2,492	4,681	2,961	11.0	8.9	9.5	13.20
1960 to 1969 .....	26	56	73	2,081	5,307	5,085	12.4	10.5	14.4	10.86
1970 to 1979 .....	44	70	71	2,963	5,760	5,057	14.8	12.1	14.0	9.61
1980 to 1989 .....	40	78	84	2,496	5,524	6,129	15.9	14.1	13.7	9.83
1990 to 1992 .....	4	12	16	365	893	1,224	10.6	13.7	13.0	18.60
<b>Census Region and Division</b>										
Northeast .....	22	45	56	2,374	5,295	5,566	9.2	8.6	10.0	10.39
New England .....	7	13	10	627	1,479	1,159	10.8	8.9	8.6	20.18
Middle Atlantic .....	15	32	46	1,747	3,816	4,407	8.7	8.4	10.3	14.14
Midwest .....	34	61	87	3,521	6,975	6,407	9.8	8.8	13.5	8.48
East North Central .....	21	41	48	2,243	4,556	3,775	9.4	9.0	12.7	11.00
West North Central .....	13	20	39	1,278	2,419	2,631	10.4	8.3	14.7	17.78
South .....	72	113	108	5,625	10,045	8,303	12.9	11.3	13.0	10.11
South Atlantic .....	30	54	51	2,104	4,425	3,902	14.1	12.3	13.0	13.22
East South Central .....	18	28	22	1,299	2,570	1,368	14.0	11.1	16.2	21.12
West South Central .....	25	30	35	2,223	3,050	3,032	11.0	10.0	11.6	17.47
West .....	43	70	53	2,520	5,564	4,331	17.0	12.7	12.2	10.63
Mountain .....	17	25	13	817	1,820	925	20.6	13.6	13.6	19.69
Pacific .....	26	46	40	1,703	3,744	3,407	15.3	12.2	11.8	12.37
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and --										
More than 7,000 HDD .....	13	22	22	1,248	2,552	1,675	10.2	8.6	13.2	18.71
5,500-7,000 HDD .....	31	72	78	3,377	7,628	6,715	9.3	9.5	11.6	11.03
4,000-5,499 HDD .....	36	56	83	3,049	5,832	7,084	11.7	9.6	11.8	12.44
Fewer than 4,000 HDD .....	44	80	70	3,116	6,328	5,420	14.1	12.6	12.9	13.09
More than 2,000 CDD and --										
Fewer than 4,000 HDD .....	48	60	49	3,249	5,539	3,713	14.8	10.8	13.3	14.38
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	172	290	303	14,039	27,879	24,607	12.2	10.4	12.3	5.38
Natural Gas .....	105	203	211	8,007	19,091	17,889	13.1	10.6	11.8	6.61
Fuel Oil .....	14	47	132	1,749	3,884	7,575	7.7	12.2	17.4	13.08
District Heat .....	Q	24	56	Q	1,633	3,484	Q	14.4	16.1	15.59
District Chilled Water .....	Q	9	24	Q	536	1,351	Q	17.4	17.8	20.63
Propane .....	12	14	13	1,033	1,369	985	11.2	10.0	13.5	19.96
Any Other .....	3	4	Q	550	514	Q	4.8	8.7	Q	22.09

See footnotes at end of table.



**Table 3.18. Electricity Consumption and Conditional Energy Intensity by Building Size, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	1.0	1.1	1.5	0.8	0.8	1.4	0.8	0.8	1.1	
RSE Column Factor:	1.0	1.1	1.5	0.8	0.8	1.4	0.8	0.8	1.1	
<b>Energy End Uses (more than one may apply)</b>										
Heated Buildings .....	164	282	286	12,726	26,163	23,075	12.9	10.8	12.4	5.39
Buildings with A/C .....	155	276	286	10,595	23,983	22,463	14.6	11.5	12.7	5.55
Buildings with Water Heating .....	154	279	290	10,760	24,849	22,867	14.3	11.2	12.7	5.51
Buildings with Cooking .....	52	91	198	1,901	7,589	13,575	27.6	11.9	14.6	7.70
Buildings with Manufacturing .....	3	19	12	336	1,495	1,336	10.3	12.9	8.9	21.52
<b>Workers (main shift)</b>										
Less than 5 .....	74	21	18	7,937	5,465	3,214	9.3	3.9	5.6	13.40
5 to 9 .....	44	23	2	3,166	3,744	614	13.8	6.0	3.6	12.65
10 to 19 .....	32	41	Q	1,984	4,481	1,589	16.2	9.1	8.3	13.15
20 to 49 .....	21	91	12	877	7,556	2,124	23.6	12.1	5.4	12.64
50 to 99 .....	Q	57	39	Q	4,047	3,641	Q	14.1	10.6	11.95
100 or More .....	Q	57	219	Q	2,585	13,425	Q	22.2	16.3	8.45
<b>Weekly Operating Hours</b>										
39 or Fewer .....	10	10	3	2,769	3,333	963	3.8	3.0	3.3	15.73
40 to 48 .....	36	64	42	4,064	7,219	3,663	8.8	8.8	11.5	10.40
49 to 60 .....	25	56	45	3,014	6,524	4,482	8.4	8.5	10.0	9.32
61 to 84 .....	33	49	59	2,005	4,605	5,417	16.5	10.6	11.0	10.73
85 to 167 .....	41	47	44	1,252	3,306	3,897	32.5	14.3	11.2	11.75
Open Continuously .....	27	65	109	935	2,891	6,185	28.4	22.5	17.7	11.50
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	154	235	213	12,547	22,083	16,949	12.2	10.6	12.6	5.99
Owner Occupied .....	128	182	157	9,834	16,324	11,999	13.1	11.1	13.1	6.54
Single Establishment .....	118	157	99	8,654	13,779	7,319	13.6	11.4	13.5	7.59
Multiple Establishment .....	11	24	59	1,180	2,545	4,680	9.1	9.6	12.5	13.77
Nonowner Occupied .....	24	52	54	2,355	5,129	4,672	10.2	10.2	11.6	11.55
Single Establishment .....	17	22	26	1,494	1,816	2,210	11.1	12.2	12.0	18.84
Multiple Establishment .....	7	30	28	861	3,313	2,463	8.6	9.0	11.3	12.01
Vacant .....	Q	1	Q	358	630	Q	Q	2.3	Q	32.96
Government Owned .....	18	55	89	1,492	5,796	7,658	12.0	9.5	11.6	9.46
<b>Predominant Exterior Wall Material</b>										
Masonry .....	124	222	190	9,165	21,648	17,000	13.5	10.3	11.2	5.92
Siding or Shingles .....	23	13	Q	2,175	1,226	Q	10.4	10.6	Q	14.14
Metal Panels .....	20	25	23	2,272	2,764	2,089	9.0	9.1	11.0	16.54
Concrete Panels .....	2	17	46	143	1,603	3,161	16.4	10.5	14.5	16.75
Window Glass .....	Q	11	28	Q	503	1,388	Q	22.7	20.2	22.54
Other .....	Q	Q	13	Q	Q	722	Q	Q	18.2	16.14
<b>Predominant Roof Material</b>										
Built-Up .....	70	142	167	4,756	12,449	12,552	14.7	11.4	13.3	7.58
Shingles (Not Wood) .....	45	34	Q	4,192	4,540	1,589	10.8	7.5	8.2	12.79
Metal Surfacing .....	28	31	11	3,113	3,929	1,591	9.1	8.0	6.9	15.37
Synthetic or Rubber .....	12	61	84	969	4,704	5,922	12.4	12.9	14.3	10.15
Other .....	16	22	28	1,009	2,257	2,954	16.2	9.7	9.3	15.19
<b>Space-Heating Energy Source</b>										
Electricity .....	77	130	146	4,589	10,072	10,975	16.8	12.9	13.3	8.04
Electricity Main .....	66	91	77	3,404	6,445	5,654	19.5	14.1	13.6	9.80
Electricity Secondary .....	11	38	69	1,186	3,627	5,321	9.2	10.6	12.9	12.09
Other Excluding Electricity .....	87	152	141	8,137	16,091	12,100	10.7	9.5	11.6	6.67
Building Not Heated .....	7	9	Q	1,313	1,716	1,532	5.5	5.0	10.7	24.39

See footnotes at end of table.

**Table 3.18. Electricity Consumption and Conditional Energy Intensity by Building Size, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	1.0	1.1	1.5	0.8	0.8	1.4	0.8	0.8	1.1	
<b>Main Space-Heating Energy Source</b>										
Electricity .....	66	91	77	3,404	6,445	5,654	19.5	14.1	13.6	9.80
Natural Gas .....	78	155	142	6,879	15,687	12,557	11.4	9.9	11.3	7.26
Fuel Oil .....	10	11	11	1,406	1,868	1,130	6.9	5.7	10.0	15.06
District Heat .....	1	21	54	116	1,477	3,157	9.0	14.3	17.0	18.72
Propane .....	6	2	Q	659	384	Q	9.1	6.4	Q	29.65
Wood .....	1	Q	Q	194	Q	Q	4.3	Q	Q	21.54
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Main Heating</b>										
Electricity Only .....	13	8	Q	1,196	1,021	Q	10.7	7.6	Q	16.20
Natural Gas Only .....	10	8	6	680	849	731	15.2	9.1	Q	20.95
Fuel Oil Only .....	5	15	56	433	1,570	3,448	11.2	9.8	16.2	18.15
Propane Only .....	6	11	Q	709	896	Q	8.3	12.0	Q	18.40
Any Other Single Energy Source .....	1	Q	Q	165	Q	Q	6.7	Q	Q	32.00
More than One Energy Source .....	3	4	Q	266	432	Q	10.2	9.1	Q	31.00
No Replacement Energy Source .....	127	235	214	9,278	21,258	17,619	13.6	11.1	12.1	6.06
Building Not Heated .....	7	9	Q	1,313	1,716	1,532	5.5	5.0	10.7	24.39
<b>Cooling Energy Source</b>										
Electricity .....	150	265	267	10,305	23,145	21,177	14.6	11.4	12.6	5.69
Other Excluding Electricity .....	5	11	19	290	837	1,286	15.7	13.4	15.0	23.05
A/C Not Performed .....	17	14	Q	3,444	3,896	2,144	5.0	3.7	7.6	15.00
<b>Water-Heating Energy Source</b>										
Electricity .....	76	123	122	5,353	10,522	9,607	14.3	11.7	12.7	8.10
Other Excluding Electricity .....	78	155	168	5,408	14,327	13,260	14.4	10.9	12.7	6.93
Water Heating Not Performed .....	18	11	Q	3,279	3,029	1,739	5.3	3.7	7.0	13.98
<b>Cooking Energy Source</b>										
Electricity .....	28	51	116	982	3,468	7,733	28.3	14.7	15.0	10.53
Other Excluding Electricity .....	25	39	82	919	4,121	5,842	26.8	9.6	14.0	10.25
Cooking Not Performed .....	119	200	105	12,138	20,290	11,032	9.8	9.8	9.5	6.94
<b>Percent of Floorspace Heated</b>										
Not Heated .....	7	9	Q	1,313	1,716	1,532	5.5	5.0	10.7	24.39
1 to 50 .....	17	25	33	2,283	4,505	4,718	7.3	5.5	7.0	14.76
51 to 99 .....	27	47	53	1,947	4,249	4,003	13.7	11.1	13.3	10.46
100 .....	121	210	200	8,495	17,409	14,354	14.2	12.1	13.9	6.06
<b>Percent of Floorspace Cooled</b>										
Not Cooled .....	17	14	Q	3,444	3,896	2,144	5.0	3.7	7.6	15.00
1 to 50 .....	32	60	48	3,622	9,796	8,297	8.9	6.1	5.8	8.27
51 to 99 .....	32	73	114	1,966	5,190	6,717	16.4	14.0	17.0	8.94
100 .....	90	143	124	5,007	8,997	7,450	18.0	15.9	16.7	7.83
<b>Percent Lit when Open</b>										
Not Lit .....	1	2	Q	702	854	Q	2.0	2.6	Q	29.52
1 to 50 .....	18	17	Q	2,717	4,753	2,505	6.5	3.6	5.5	13.91
51 to 99 .....	33	64	63	2,479	5,996	5,747	13.2	10.7	11.0	9.00
100 .....	120	207	224	8,141	16,275	15,977	14.7	12.7	14.0	6.54
<b>Percent Lit when Closed</b>										
Not Lit .....	91	131	148	8,622	13,302	11,210	10.6	9.8	13.2	7.31
1 to 50 .....	73	151	145	4,996	13,958	12,528	14.5	10.8	11.5	7.25
51 to 99 .....	4	5	8	153	254	615	25.1	18.3	13.0	26.57
100 .....	4	4	Q	269	365	Q	15.1	11.1	Q	30.20

See footnotes at end of table.

**Table 3.18. Electricity Consumption and Conditional Energy Intensity by Building Size, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	1.0	1.1	1.5	0.8	0.8	1.4	0.8	0.8	1.1	
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	28	46	54	1,442	3,210	3,618	19.2	14.3	14.8	12.98
Furnaces .....	58	66	30	5,594	7,041	4,273	10.5	9.4	7.1	9.61
Individual Space Heaters .....	40	101	107	4,428	8,927	9,008	9.0	11.3	11.8	8.40
District Heat .....	2	23	57	129	1,583	3,513	15.6	14.7	16.1	20.63
Boilers .....	18	81	144	1,611	8,598	10,454	11.3	9.4	13.8	8.90
Packaged Heating Units .....	50	91	74	2,531	7,344	6,124	19.6	12.3	12.0	9.57
Other .....	3	14	8	85	414	404	34.5	33.3	18.6	26.39
<b>Cooling Equipment (more than one may apply)</b>										
Residential-Type Central A/C .....	27	41	26	2,581	4,054	2,385	10.5	10.2	11.1	11.58
Heat Pumps .....	28	47	53	1,450	3,365	3,591	19.0	14.0	14.7	12.78
Individual A/C .....	29	63	77	2,986	7,364	7,629	9.7	8.5	10.1	9.69
District Chilled Water .....	Q	9	24	Q	536	1,503	Q	17.4	16.0	22.24
Central Chillers .....	4	53	167	203	3,095	9,692	21.7	17.1	17.2	12.15
Packaged A/C Units .....	77	158	139	4,300	12,604	10,925	17.8	12.5	12.7	7.36
Swamp Coolers .....	9	11	12	566	789	730	16.5	13.5	16.1	22.88
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Lighting Equipment (more than one may apply)</b>										
Incandescent .....	101	171	208	7,598	16,199	15,424	13.3	10.5	13.5	6.50
Standard Fluorescent .....	161	283	288	12,342	26,347	23,378	13.0	10.7	12.3	5.29
Compact Fluorescent .....	9	41	85	575	2,617	5,143	15.7	15.6	16.4	14.07
High-Intensity Discharge .....	12	62	143	776	5,659	11,134	14.9	11.0	12.8	10.77
Other .....	4	5	10	214	675	723	17.2	7.8	14.3	25.90
<b>Commercial Refrigeration Equipment (more than one may apply)</b>										
Any Equipment .....	74	115	206	2,566	8,612	14,228	28.8	13.4	14.5	6.97
Walk-in Units .....	58	81	182	1,560	5,154	11,966	37.5	15.7	15.2	7.88
Cases and Cabinets .....	66	92	178	2,047	6,688	12,252	32.3	13.8	14.5	7.54
None .....	98	175	97	11,473	19,267	10,379	8.5	9.1	9.3	7.33
<b>Personal Computers and/or Computer Terminals</b>										
1 to 4 .....	59	53	11	4,223	7,030	2,101	14.0	7.6	5.4	12.35
5 to 9 .....	16	40	12	1,152	3,184	1,633	13.5	12.5	7.6	12.98
10 to 19 .....	8	46	18	487	3,676	2,073	16.9	12.6	8.9	15.58
20 to 49 .....	4	51	30	149	4,162	3,129	25.8	12.3	9.7	14.56
50 or More .....	Q	62	201	Q	3,250	11,422	Q	19.0	17.6	8.73
<b>Annual Consumption (kilowatthours)</b>										
10,000 or Less .....	5	(*)	Q	3,279	1,168	Q	1.5	0.3	Q	8.13
10,001 to 50,000 .....	38	6	Q	6,278	4,506	Q	6.1	1.3	Q	6.74
50,001 to 100,000 .....	35	13	Q	2,411	3,837	Q	14.4	3.5	Q	6.75
100,001 to 500,000 .....	77	93	5	1,934	11,513	2,594	39.7	8.0	1.9	7.01
500,001 to 1,000,000 .....	Q	59	11	Q	3,573	2,707	Q	16.5	4.2	8.43
1,000,001 to 5,000,000 .....	Q	113	105	Q	3,204	9,354	Q	35.3	11.2	8.06
Over 5,000,000 .....	Q	Q	181	Q	Q	7,899	Q	Q	22.9	7.23

See footnotes at end of table.

**Table 3.18. Electricity Consumption and Conditional Energy Intensity by Building Size, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	1.0	1.1	1.5	0.8	0.8	1.4	0.8	0.8	1.1	
<b>Peak Electricity Demand (kilowatts)</b>										
10 or Less .....	5	1	Q	1,378	827	Q	3.4	0.8	Q	19.08
11 to 25 .....	19	3	Q	2,213	1,710	Q	8.6	1.9	Q	11.04
26 to 50 .....	34	11	Q	1,727	2,876	Q	19.5	3.9	Q	9.56
51 to 100 .....	32	35	7	979	4,984	965	33.1	6.9	6.8	13.26
101 to 250 .....	18	78	8	305	5,931	2,173	57.8	13.1	3.6	12.84
251 to 1,000 .....	Q	110	78	Q	4,019	8,026	Q	27.4	9.7	10.38
Over 1,000 .....	Q	16	163	Q	410	7,759	Q	38.0	21.1	16.88
<b>Season of Peak Electricity Demand</b>										
Summer .....	72	162	180	3,763	12,234	13,291	19.1	13.3	13.5	8.87
Winter .....	40	79	68	2,382	7,339	5,958	16.9	10.7	11.4	11.24
Summer and Winter .....	7	12	9	582	1,184	677	12.3	10.5	12.7	24.67
<b>Building Generates Electricity</b>										
Yes .....	4	54	128	293	2,434	7,646	14.5	22.2	16.7	13.93
No .....	167	236	175	13,746	25,445	16,961	12.2	9.3	10.3	6.00

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

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.19. Electricity Consumption and Conditional Energy Intensity for Mercantile and Office Buildings, 1992**

Building Characteristics	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/sq. ft.)				RSE Row Factor
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
	0.9	1.4	1.2	1.3	0.8	1.6	0.9	1.1	0.7	1.2	0.8	0.7	
<b>All Buildings</b> .....	76	54	85	122	7,549	4,838	5,745	6,573	10.1	11.2	14.7	18.5	9.01
<b>Building Floorspace (square feet)</b>													
1,001 to 5,000 .....	28	Q	14	Q	2,189	Q	1,018	Q	12.7	Q	13.3	Q	9.46
5,001 to 10,000 .....	19	Q	13	Q	1,987	Q	1,248	Q	9.4	Q	10.1	Q	14.39
10,001 to 25,000 .....	20	Q	26	Q	2,003	Q	1,656	Q	10.0	Q	15.9	Q	14.57
25,001 to 50,000 .....	10	Q	32	Q	1,369	Q	1,823	Q	7.1	Q	17.6	Q	18.08
50,001 to 100,000 .....	Q	14	Q	25	Q	1,268	Q	1,355	Q	11.0	Q	18.4	15.48
100,001 to 200,000 .....	Q	15	Q	29	Q	1,364	Q	1,973	Q	10.7	Q	14.9	20.28
200,001 to 500,000 .....	Q	7	Q	34	Q	646	Q	1,707	Q	10.5	Q	20.1	19.16
Over 500,000 .....	Q	19	Q	33	Q	1,560	Q	1,537	Q	11.9	Q	21.4	17.54
<b>Year Constructed</b>													
1899 or Before .....	1	Q	Q	Q	177	Q	331	Q	4.7	Q	Q	Q	41.42
1900 to 1919 .....	2	Q	3	Q	355	Q	366	Q	4.6	Q	9.4	Q	30.99
1920 to 1945 .....	8	Q	6	8	1,194	Q	699	690	6.8	Q	9.0	11.2	22.19
1946 to 1959 .....	12	Q	15	12	1,543	Q	833	567	8.0	Q	17.7	21.5	22.08
1960 to 1969 .....	15	18	12	25	1,165	1,513	812	1,376	12.5	11.8	14.7	18.5	20.39
1970 to 1979 .....	19	13	18	26	1,518	1,090	1,069	1,214	12.2	11.7	17.3	21.6	15.81
1980 to 1989 .....	18	16	24	37	1,445	1,194	1,452	1,866	12.6	13.6	16.2	19.8	15.95
1990 to 1992 .....	2	4	3	8	153	385	184	406	13.0	10.5	14.4	20.1	28.95
<b>Census Region and Division</b>													
Northeast .....	10	13	11	25	1,562	1,236	1,123	1,401	6.1	10.6	9.9	18.2	17.77
New England .....	2	Q	3	6	314	Q	350	341	6.9	Q	7.4	16.3	24.43
Middle Atlantic .....	7	12	9	20	1,248	947	773	1,060	5.9	12.2	11.1	18.8	22.13
Midwest .....	19	13	15	30	2,016	1,134	1,300	1,504	9.6	11.7	11.4	19.9	17.17
East North Central .....	13	8	10	23	1,251	603	837	1,187	10.1	13.8	11.8	19.2	20.93
West North Central .....	7	Q	5	7	765	Q	462	317	8.7	Q	10.8	22.5	29.40
South .....	32	19	37	39	2,737	1,491	2,010	2,142	11.8	12.7	18.3	18.0	14.40
South Atlantic .....	11	9	18	18	951	681	899	1,141	11.1	13.0	19.8	15.8	19.59
East South Central .....	11	Q	11	Q	825	Q	497	Q	13.5	Q	21.8	Q	26.67
West South Central .....	11	7	8	11	960	507	614	557	10.9	13.4	13.2	20.0	21.48
West .....	15	9	22	28	1,235	977	1,313	1,525	12.3	9.0	16.7	18.1	18.62
Mountain .....	5	Q	6	7	463	Q	345	413	10.8	Q	16.4	17.3	30.59
Pacific .....	10	7	16	20	772	778	968	1,112	13.2	8.9	16.8	18.4	22.12
<b>Climate Zone: 45-Year Average</b>													
Fewer than 2,000 CDD and --													
More than 7,000 HDD .....	6	Q	5	4	769	Q	464	247	7.5	Q	10.4	17.8	27.04
5,500-7,000 HDD .....	18	13	16	38	2,176	1,315	1,470	1,936	8.2	10.2	10.9	19.8	16.88
4,000-5,499 HDD .....	18	16	19	36	1,816	1,343	1,150	2,260	10.2	12.0	16.5	15.7	20.43
Fewer than 4,000 HDD .....	19	12	27	28	1,399	894	1,505	1,363	13.8	13.9	18.0	20.7	16.39
More than 2,000 CDD and --													
Fewer than 4,000 HDD .....	15	8	18	15	1,389	855	1,156	766	10.6	9.6	15.3	19.7	18.91
<b>Energy Sources (more than one may apply)</b>													
Electricity .....	76	54	85	122	7,549	4,838	5,745	6,573	10.1	11.2	14.7	18.5	9.01
Natural Gas .....	48	50	48	72	5,002	4,349	3,514	4,332	9.7	11.5	13.8	16.5	11.74
Fuel Oil .....	8	Q	9	61	1,146	Q	681	2,921	6.8	Q	12.6	21.0	22.12
District Heat .....	Q	Q	4	32	Q	Q	252	1,460	Q	Q	17.7	21.7	33.93
District Chilled Water .....	Q	Q	Q	9	Q	Q	Q	533	Q	Q	Q	16.7	28.60
Propane .....	5	Q	Q	Q	526	Q	Q	Q	9.3	Q	Q	Q	24.86
Any Other .....	1	Q	Q	Q	320	Q	Q	Q	3.9	Q	Q	Q	24.64

See footnotes at end of table.

**Table 3.19. Electricity Consumption and Conditional Energy Intensity for Mercantile and Office Buildings, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/sq. ft.)				RSE Row Factor
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
	0.9	1.4	1.2	1.3	0.8	1.6	0.9	1.1	0.7	1.2	0.8	0.7	
<b>Energy End Uses (more than one may apply)</b>													
Heated Buildings .....	74	52	84	121	7,238	4,585	5,693	6,562	10.2	11.3	14.7	18.5	9.02
Buildings with A/C .....	68	54	84	121	6,122	4,752	5,627	6,570	11.2	11.3	14.9	18.5	9.20
Buildings with Water Heating .....	69	54	82	121	6,006	4,802	5,530	6,500	11.5	11.2	14.7	18.7	9.36
Buildings with Cooking .....	13	42	4	68	485	3,321	301	3,374	27.0	12.7	14.5	20.0	16.67
Buildings with Manufacturing .....	3	Q	Q	Q	354	Q	Q	Q	8.9	Q	Q	Q	26.54
<b>Workers (main shift)</b>													
Less than 5 .....	23	Q	5	Q	2,924	Q	647	Q	7.8	Q	7.2	Q	14.44
5 to 9 .....	17	Q	9	Q	1,728	Q	930	Q	9.7	Q	10.1	Q	15.70
10 to 19 .....	14	Q	13	Q	1,412	Q	900	Q	10.2	Q	14.5	Q	17.16
20 to 49 .....	16	6	30	Q	1,158	592	1,777	Q	13.5	10.8	17.1	Q	18.93
50 to 99 .....	5	10	13	5	266	980	971	355	19.0	10.3	13.4	12.9	24.37
100 or More .....	Q	36	14	115	Q	2,867	521	5,617	Q	12.5	27.2	20.5	13.30
<b>Weekly Operating Hours</b>													
39 or Fewer .....	1	Q	2	Q	250	Q	150	Q	4.7	Q	10.1	Q	28.79
40 to 48 .....	11	Q	39	30	1,558	Q	3,134	1,501	7.3	Q	12.3	19.8	13.65
49 to 60 .....	19	Q	25	38	2,939	Q	1,570	2,467	6.4	Q	15.9	15.6	14.36
61 to 84 .....	22	25	7	32	1,932	2,736	464	1,584	11.6	9.1	14.1	19.9	16.48
85 to 167 .....	17	23	4	8	714	1,324	204	548	23.3	17.1	19.5	14.0	22.91
Open Continuously .....	6	Q	9	13	156	Q	224	402	36.9	Q	40.0	33.2	31.02
<b>Ownership and Occupancy</b>													
Nongovernment Owned .....	70	44	77	105	7,107	4,199	5,214	5,451	9.9	10.5	14.8	19.2	9.71
Owner Occupied .....	52	26	58	83	5,206	2,579	3,831	4,017	10.0	10.1	15.0	20.5	11.02
Single Establishment .....	46	13	46	39	4,489	1,191	2,615	1,532	10.2	10.6	17.5	25.2	15.15
Multiple Establishment .....	6	13	12	44	716	1,388	1,216	2,485	8.7	9.6	9.7	17.7	17.43
Nonowner Occupied .....	18	18	19	22	1,901	1,619	1,383	1,434	9.6	11.2	14.1	15.4	15.34
Single Establishment .....	8	Q	10	6	892	Q	428	294	9.5	Q	22.4	20.1	23.99
Multiple Establishment .....	10	17	10	16	1,009	1,483	954	1,140	9.7	11.2	10.3	14.1	18.44
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned .....	6	Q	8	17	443	Q	532	1,122	13.6	Q	14.3	15.1	22.30
<b>Predominant Exterior Wall Material</b>													
Masonry .....	51	41	63	56	5,022	4,013	4,394	3,323	10.1	10.3	14.4	16.9	10.62
Siding or Shingles .....	6	Q	8	Q	662	Q	636	Q	9.1	Q	12.5	Q	17.17
Metal Panels .....	16	Q	5	Q	1,541	Q	297	Q	10.3	Q	18.3	Q	27.26
Concrete Panels .....	Q	12	Q	20	Q	731	Q	1,064	Q	15.9	Q	18.4	15.97
Window Glass .....	Q	Q	Q	28	Q	Q	Q	1,184	Q	Q	Q	23.5	21.33
Other .....	Q	Q	Q	9	Q	Q	Q	430	Q	Q	Q	21.6	22.95
<b>Predominant Roof Material</b>													
Built-Up .....	36	28	41	57	3,052	2,846	2,577	2,948	11.7	9.9	15.8	19.4	11.96
Shingles (Not Wood) .....	13	Q	14	Q	1,327	Q	1,370	Q	9.5	Q	10.5	Q	14.91
Metal Surfacing .....	18	Q	7	Q	2,000	Q	436	Q	8.9	Q	15.0	Q	23.37
Synthetic or Rubber .....	7	19	16	41	748	1,378	830	2,165	9.0	14.1	18.8	18.8	15.89
Other .....	3	Q	7	10	422	Q	533	441	7.5	Q	13.7	21.8	29.38
<b>Space-Heating Energy Source</b>													
Electricity .....	33	33	44	62	2,275	2,847	2,574	2,871	14.7	11.6	16.9	21.5	12.47
Electricity Main .....	24	16	34	41	1,290	1,568	1,949	1,797	18.6	10.4	17.4	22.9	15.46
Electricity Secondary .....	9	17	10	20	985	1,279	625	1,073	9.5	13.0	15.5	19.0	21.27
Other Excluding Electricity .....	40	19	40	60	4,963	1,738	3,119	3,691	8.1	10.8	12.9	16.1	11.68
Building Not Heated .....	Q	Q	Q	Q	311	Q	Q	Q	Q	Q	Q	Q	34.63

See footnotes at end of table.

**Table 3.19. Electricity Consumption and Conditional Energy Intensity for Mercantile and Office Buildings, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/sq. ft.)				RSE Row Factor
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
	0.9	1.4	1.2	1.3	0.8	1.6	0.9	1.1	0.7	1.2	0.8	0.7	
<b>Main Space-Heating Energy Source</b>													
Electricity .....	24	16	34	41	1,290	1,568	1,949	1,797	18.6	10.4	17.4	22.9	15.46
Natural Gas .....	38	34	42	45	4,512	2,747	3,013	2,911	8.5	12.4	13.9	15.3	12.60
Fuel Oil .....	5	Q	4	Q	823	Q	481	Q	5.9	Q	7.6	Q	18.07
District Heat .....	Q	Q	3	29	Q	Q	216	1,324	Q	Q	14.4	22.1	24.62
Propane .....	3	Q	Q	Q	338	Q	Q	Q	9.8	Q	Q	Q	34.02
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Main Heating</b>													
Electricity Only .....	6	Q	3	Q	704	Q	336	Q	8.6	Q	10.4	Q	21.09
Natural Gas Only .....	5	Q	3	Q	438	Q	232	Q	11.3	Q	11.4	Q	25.97
Fuel Oil Only .....	4	Q	2	7	440	Q	163	518	8.8	Q	12.2	Q	36.54
Propane Only .....	3	Q	4	Q	285	Q	315	Q	9.5	Q	13.9	Q	33.72
Any Other Single Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source .....	2	Q	Q	Q	158	Q	Q	Q	11.6	Q	Q	Q	32.17
No Replacement Energy Source .....	54	48	69	107	5,146	4,011	4,492	5,402	10.5	11.9	15.3	19.8	9.80
Building Not Heated .....	Q	Q	Q	Q	311	Q	Q	Q	Q	Q	Q	Q	34.63
<b>Cooling Energy Source</b>													
Electricity .....	67	53	79	116	5,962	4,706	5,345	6,231	11.3	11.3	14.9	18.5	9.44
Other Excluding Electricity .....	Q	Q	5	6	Q	Q	282	339	Q	Q	16.1	17.6	26.42
A/C Not Performed .....	8	Q	Q	Q	1,427	Q	Q	Q	5.4	Q	Q	Q	22.33
<b>Water-Heating Energy Source</b>													
Electricity .....	39	29	50	60	2,953	2,550	2,898	2,892	13.3	11.4	17.1	20.8	12.10
Other Excluding Electricity .....	30	25	32	61	3,053	2,253	2,632	3,608	9.7	10.9	12.2	16.9	14.09
Water Heating Not Performed .....	7	Q	3	Q	1,543	Q	215	Q	4.8	Q	14.3	Q	17.83
<b>Cooking Energy Source</b>													
Electricity .....	9	30	Q	47	277	2,118	Q	2,141	33.0	14.1	Q	22.0	18.40
Other Excluding Electricity .....	4	12	Q	20	209	1,203	Q	1,232	19.2	10.4	Q	16.6	18.54
Cooking Not Performed .....	63	12	80	54	7,064	1,518	5,445	3,199	8.9	7.8	14.7	16.9	11.81
<b>Percent of Floorspace Heated</b>													
Not Heated .....	Q	Q	Q	Q	311	Q	Q	Q	Q	Q	Q	Q	34.63
1 to 50 .....	10	Q	Q	3	1,449	Q	336	Q	6.9	Q	Q	Q	23.94
51 to 99 .....	16	9	15	29	1,512	787	1,186	1,844	10.3	11.7	12.6	15.6	18.19
100 .....	48	33	65	90	4,278	2,908	4,171	4,266	11.2	11.2	15.5	21.0	10.18
<b>Percent of Floorspace Cooled</b>													
Not Cooled .....	8	Q	Q	Q	1,427	Q	Q	Q	5.4	Q	Q	Q	22.33
1 to 50 .....	27	Q	5	4	3,257	Q	778	461	8.4	Q	5.9	8.0	18.27
51 to 99 .....	15	30	22	53	1,191	2,141	1,600	3,062	12.6	14.2	14.1	17.2	16.44
100 .....	26	21	57	65	1,674	1,780	3,250	3,047	15.6	11.5	17.5	21.3	12.66
<b>Percent Lit when Open</b>													
Not Lit .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50 .....	4	Q	2	1	1,184	Q	409	Q	3.7	Q	5.4	Q	19.94
51 to 99 .....	17	9	23	28	1,597	1,162	1,788	1,642	10.6	7.7	12.7	17.1	14.18
100 .....	55	45	60	92	4,743	3,592	3,549	4,567	11.6	12.4	16.8	20.2	10.16
<b>Percent Lit when Closed</b>													
Not Lit .....	31	10	32	24	3,059	982	2,490	1,406	10.1	9.8	13.0	17.3	17.22
1 to 50 .....	42	43	49	94	4,327	3,713	3,116	4,955	9.8	11.5	15.8	18.9	10.49
51 to 99 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
100 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.19. Electricity Consumption and Conditional Energy Intensity for Mercantile and Office Buildings, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/sq. ft.)				RSE Row Factor
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
	0.9	1.4	1.2	1.3	0.8	1.6	0.9	1.1	0.7	1.2	0.8	0.7	
<b>Lighting Equipment (more than one may apply)</b>													
Incandescent .....	33	32	48	80	3,481	3,035	3,230	4,716	9.6	10.6	14.8	16.9	11.68
Standard Fluorescent .....	71	53	84	121	7,244	4,809	5,663	6,504	9.8	11.1	14.8	18.5	8.93
Compact Fluorescent .....	3	13	11	42	336	1,096	506	2,213	9.4	11.6	21.5	19.2	19.80
High-Intensity Discharge .....	11	28	7	36	916	2,158	446	1,913	12.4	13.1	16.2	18.9	17.82
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Commercial Refrigeration Equipment (more than one may apply)</b>													
Any Equipment .....	28	41	6	66	1,400	3,321	360	3,278	19.8	12.4	16.7	20.2	14.64
Walk-in Units .....	18	36	Q	48	776	2,934	Q	2,363	23.1	12.4	Q	20.4	14.94
Cases and Cabinets .....	24	40	3	54	1,038	3,247	246	2,737	22.6	12.2	11.6	19.8	14.98
None .....	48	13	79	55	6,149	1,517	5,386	3,295	7.9	8.5	14.6	16.8	12.37
<b>Personal Computers and/or Computer Terminals</b>													
1 to 4 .....	31	Q	10	Q	3,121	Q	1,254	Q	10.0	Q	7.7	Q	13.17
5 to 9 .....	12	11	11	Q	854	959	954	Q	14.3	11.3	11.5	Q	17.00
10 to 19 .....	4	11	20	Q	373	1,095	1,106	Q	11.0	9.7	18.0	Q	22.00
20 to 49 .....	Q	11	19	9	Q	830	1,079	605	Q	13.1	17.5	15.2	18.00
50 or More .....	Q	19	22	110	Q	1,457	829	5,357	Q	13.3	26.5	20.5	14.79
<b>Annual Consumption (kilowatthours)</b>													
10,000 or Less .....	1	Q	1	Q	876	Q	349	Q	1.6	Q	1.7	Q	14.65
10,001 to 50,000 .....	15	Q	8	Q	2,920	Q	1,499	Q	5.1	Q	5.6	Q	9.52
50,001 to 100,000 .....	13	Q	8	Q	1,430	Q	672	Q	9.0	Q	11.3	Q	12.28
100,001 to 500,000 .....	33	2	30	Q	1,947	877	2,214	Q	16.8	2.4	13.6	Q	12.88
500,001 to 1,000,000 .....	8	Q	14	5	253	Q	621	483	33.3	Q	22.7	10.1	21.69
1,000,001 to 5,000,000 .....	Q	24	23	46	Q	1,830	386	2,578	Q	13.2	60.5	17.7	12.50
Over 5,000,000 .....	Q	22	Q	69	Q	1,127	Q	2,677	Q	19.3	Q	25.9	14.89
<b>Peak Electricity Demand (kilowatts)</b>													
10 or Less .....	2	Q	1	Q	470	Q	202	Q	3.7	Q	3.3	Q	22.46
11 to 25 .....	7	Q	4	Q	1,114	Q	651	Q	6.3	Q	6.3	Q	15.88
26 to 50 .....	11	Q	6	Q	973	Q	480	Q	11.7	Q	13.0	Q	17.14
51 to 100 .....	15	Q	11	Q	969	Q	918	Q	15.6	Q	12.5	Q	16.78
101 to 250 .....	13	Q	23	Q	515	Q	1,120	Q	25.0	Q	20.2	Q	19.09
251 to 1,000 .....	Q	20	17	37	Q	1,394	330	2,085	Q	14.4	52.5	18.0	17.53
Over 1,000 .....	Q	13	Q	68	Q	856	Q	2,770	Q	15.0	Q	24.5	21.07
<b>Season of Peak Electricity Demand</b>													
Summer .....	31	27	47	79	2,212	2,393	2,566	4,237	14.1	11.3	18.3	18.7	14.91
Winter .....	19	Q	21	23	1,608	Q	1,085	1,217	11.9	Q	19.1	19.2	16.13
Summer and Winter .....	4	Q	2	Q	365	Q	183	Q	10.7	Q	9.4	Q	30.39

See footnotes at end of table.



**Table 3.19. Electricity Consumption and Conditional Energy Intensity for Mercantile and Office Buildings, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/sq. ft.)				RSE Row Factor
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
	0.9	1.4	1.2	1.3	0.8	1.6	0.9	1.1	0.7	1.2	0.8	0.7	
<b>Building Generates Electricity</b>													
Yes .....	Q	14	10	61	Q	1,207	301	2,722	Q	11.9	31.7	22.5	19.88
No .....	74	40	75	60	7,407	3,632	5,445	3,851	10.0	10.9	13.8	15.6	10.10

NF = No applicable RSE row factor.

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. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • Small buildings are 50,000 square feet or less. Large buildings are greater than 50,000 square feet. • 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. • 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.

**Table 3.20. Electricity Consumption and Conditional Energy Intensity for Education, Health Care, and Food Sales and Service Buildings, 1992**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
	1.1	1.5	1.1	1.0	1.3	1.1	0.6	0.8	0.8	
<b>All Buildings</b> .....	69	40	73	8,470	1,763	2,248	8.1	22.9	32.6	7.92
<b>Building Floorspace (square feet)</b>										
1,001 to 5,000 .....	3	1	34	292	108	771	11.8	13.2	43.9	16.09
5,001 to 10,000 .....	3	Q	15	307	Q	426	9.1	Q	35.3	17.86
10,001 to 25,000 .....	7	Q	12	997	Q	512	6.6	Q	23.6	17.05
25,001 to 50,000 .....	10	Q	9	1,551	Q	407	6.5	Q	21.5	21.10
50,001 to 100,000 .....	17	Q	Q	2,045	Q	Q	8.4	Q	Q	13.62
100,001 to 200,000 .....	15	8	Q	1,641	401	Q	9.0	20.2	Q	17.75
200,001 to 500,000 .....	14	14	Q	1,621	504	Q	8.4	28.5	Q	18.72
Over 500,000 .....	Q	10	Q	Q	381	Q	Q	25.1	Q	12.77
<b>Year Constructed</b>										
1899 or Before .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1900 to 1919 .....	2	Q	Q	441	Q	Q	4.2	Q	Q	29.22
1920 to 1945 .....	6	4	10	1,077	227	351	5.5	19.8	27.3	22.28
1946 to 1959 .....	11	5	8	1,903	152	384	5.6	32.5	22.1	18.19
1960 to 1969 .....	22	12	10	2,405	492	346	9.1	23.4	29.7	16.68
1970 to 1979 .....	20	13	22	1,728	544	520	11.5	23.4	42.0	13.62
1980 to 1989 .....	6	6	18	653	287	376	9.9	19.7	49.1	17.33
1990 to 1992 .....	2	Q	Q	253	Q	Q	8.7	Q	Q	30.13
<b>Census Region and Division</b>										
Northeast .....	12	7	11	1,968	386	565	6.2	19.0	18.9	13.98
New England .....	4	Q	Q	604	Q	Q	6.4	Q	Q	18.77
Middle Atlantic .....	8	5	7	1,364	241	408	6.1	21.3	17.2	16.19
Midwest .....	19	11	18	2,386	487	614	7.8	22.0	29.6	15.28
East North Central .....	11	6	11	1,534	265	399	6.8	23.0	28.7	14.63
West North Central .....	8	5	7	852	222	215	9.6	20.9	31.3	28.81
South .....	22	17	25	2,620	597	652	8.2	27.7	37.8	13.47
South Atlantic .....	10	8	13	1,168	307	290	8.8	25.2	44.6	21.31
East South Central .....	5	Q	Q	548	Q	Q	8.7	Q	Q	19.79
West South Central .....	6	Q	9	904	Q	284	7.2	Q	30.0	20.35
West .....	16	6	20	1,496	292	416	10.9	19.7	47.6	17.96
Mountain .....	4	Q	Q	410	Q	Q	10.4	Q	Q	20.64
Pacific .....	12	5	10	1,086	261	250	11.1	19.4	41.6	23.36
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and --										
More than 7,000 HDD .....	6	Q	7	592	Q	166	9.5	Q	43.1	26.60
5,500-7,000 HDD .....	18	11	19	2,614	531	697	6.8	20.9	27.4	13.20
4,000-5,499 HDD .....	15	6	16	2,079	267	547	7.4	24.2	28.8	18.10
Fewer than 4,000 HDD .....	19	15	16	1,849	614	422	10.3	24.8	38.1	19.00
More than 2,000 CDD and --										
Fewer than 4,000 HDD .....	11	5	15	1,336	198	415	8.1	26.3	36.6	17.88
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	69	40	73	8,470	1,763	2,248	8.1	22.9	32.6	7.92
Natural Gas .....	55	36	53	6,856	1,544	1,655	8.1	23.4	32.1	10.25
Fuel Oil .....	14	28	4	1,837	1,093	172	7.6	25.7	25.0	18.43
District Heat .....	6	9	Q	688	403	Q	8.1	23.4	Q	21.47
District Chilled Water .....	2	5	Q	253	227	Q	9.2	23.4	Q	23.11
Propane .....	4	Q	7	470	Q	230	7.7	Q	29.6	24.55
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.20. Electricity Consumption and Conditional Energy Intensity for Education, Health Care, and Food Sales and Service Buildings, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
	1.1	1.5	1.1	1.0	1.3	1.1	0.6	0.8	0.8	
<b>Energy End Uses (more than one may apply)</b>										
Heated Buildings .....	68	40	72	8,379	1,746	2,158	8.2	23.1	33.2	8.04
Buildings with A/C .....	64	40	72	7,389	1,747	2,174	8.6	23.0	33.1	8.02
Buildings with Water Heating .....	66	40	73	8,036	1,760	2,228	8.2	22.7	32.7	8.02
Buildings with Cooking .....	45	33	58	5,676	1,289	1,799	8.0	25.4	32.5	9.30
Buildings with Manufacturing .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Workers (main shift)</b>										
Less than 5 .....	3	Q	19	481	Q	648	6.0	Q	29.3	18.26
5 to 9 .....	3	Q	16	448	Q	560	7.6	Q	27.7	19.80
10 to 19 .....	5	Q	18	738	Q	485	7.4	Q	37.5	16.00
20 to 49 .....	17	Q	13	2,533	162	390	6.8	19.7	32.2	20.21
50 to 99 .....	21	Q	Q	2,213	Q	Q	9.5	Q	Q	13.85
100 or More .....	19	33	Q	2,057	1,334	Q	9.1	24.5	Q	12.64
<b>Weekly Operating Hours</b>										
39 or Fewer .....	6	Q	Q	1,221	Q	Q	5.0	Q	Q	18.72
40 to 48 .....	19	2	1	2,761	151	81	6.7	10.3	12.9	21.69
49 to 60 .....	9	2	3	1,447	151	102	6.1	13.5	25.6	20.92
61 to 84 .....	17	Q	15	1,607	Q	483	10.4	Q	31.1	13.22
85 to 167 .....	15	Q	38	1,333	Q	1,235	11.2	Q	30.7	15.94
Open Continuously .....	Q	34	16	Q	1,284	291	Q	26.4	54.9	12.95
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	10	28	72	1,508	1,242	2,091	6.5	22.2	34.3	11.10
Owner Occupied .....	9	27	59	1,402	1,139	1,660	6.5	23.3	35.3	12.15
Single Establishment .....	9	24	56	1,341	1,010	1,561	6.6	23.7	36.1	12.69
Multiple Establishment .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Nonowner Occupied .....	Q	Q	13	Q	Q	431	Q	Q	30.4	21.74
Single Establishment .....	Q	Q	10	Q	Q	340	Q	Q	29.8	25.53
Multiple Establishment .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned .....	59	13	2	6,961	521	157	8.5	24.6	10.6	16.59
<b>Predominant Exterior Wall Material</b>										
Masonry .....	61	36	59	7,714	1,587	1,763	7.9	22.9	33.7	8.34
Siding or Shingles .....	1	Q	9	120	Q	336	8.5	Q	27.8	20.33
Metal Panels .....	1	Q	Q	145	Q	Q	8.0	Q	Q	35.72
Concrete Panels .....	5	Q	Q	379	Q	Q	13.0	Q	Q	31.66
Window Glass .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Predominant Roof Material</b>										
Built-Up .....	35	23	35	4,272	1,062	965	8.2	22.1	36.5	10.69
Shingles (Not Wood) .....	5	Q	15	746	123	597	6.5	21.9	26.0	21.52
Metal Surfacing .....	3	Q	7	403	Q	190	7.8	Q	38.7	25.58
Synthetic or Rubber .....	20	13	6	2,322	507	271	8.6	24.7	23.5	18.95
Other .....	6	Q	9	728	Q	225	8.1	Q	39.4	20.24
<b>Space-Heating Energy Source</b>										
Electricity .....	25	15	29	2,159	667	692	11.4	22.9	42.5	13.71
Electricity Main .....	12	3	26	998	198	589	11.6	16.5	44.2	20.38
Electricity Secondary .....	13	12	Q	1,161	469	Q	11.3	25.6	Q	18.56
Other Excluding Electricity .....	44	25	42	6,220	1,079	1,467	7.0	23.2	28.8	9.42
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.20. Electricity Consumption and Conditional Energy Intensity for Education, Health Care, and Food Sales and Service Buildings, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
	1.1	1.5	1.1	1.0	1.3	1.1	0.6	0.8	0.8	
<b>Main Space-Heating Energy Source</b>										
Electricity .....	12	3	26	998	198	589	11.6	16.5	44.2	20.38
Natural Gas .....	46	25	39	5,642	1,017	1,248	8.1	24.5	31.6	11.28
Fuel Oil .....	5	Q	3	996	Q	147	5.5	Q	19.1	21.25
District Heat .....	5	9	Q	637	385	Q	8.2	23.3	Q	17.56
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Main Heating</b>										
Electricity Only .....	1	Q	5	224	Q	197	3.5	Q	Q	29.42
Natural Gas Only .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Fuel Oil Only .....	11	18	Q	1,320	697	Q	8.5	26.4	Q	19.24
Propane Only .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other Single Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
No Replacement Energy Source .....	53	18	56	6,492	859	1,597	8.2	20.7	34.9	9.79
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Energy Source</b>										
Electricity .....	59	38	71	6,912	1,605	2,090	8.5	23.5	33.8	8.36
Other Excluding Electricity .....	5	2	Q	478	142	Q	9.9	17.2	Q	25.13
A/C Not Performed .....	5	Q	1	1,080	Q	75	4.8	Q	19.9	25.53
<b>Water-Heating Energy Source</b>										
Electricity .....	18	3	27	2,002	227	773	8.8	11.9	35.6	18.60
Other Excluding Electricity .....	48	37	45	6,034	1,533	1,456	8.0	24.4	31.2	9.07
Water Heating Not Performed .....	3	Q	Q	434	Q	Q	6.6	Q	Q	24.54
<b>Cooking Energy Source</b>										
Electricity .....	20	16	32	2,579	631	855	7.9	25.8	37.2	12.68
Other Excluding Electricity .....	25	17	27	3,097	658	944	8.1	25.1	28.2	13.49
Cooking Not Performed .....	23	8	15	2,794	473	449	8.4	16.0	33.3	15.88
<b>Percent of Floorspace Heated</b>										
Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50 .....	Q	Q	5	Q	Q	231	Q	Q	21.6	28.89
51 to 99 .....	8	6	17	1,105	253	527	7.6	23.3	31.7	19.89
100 .....	59	33	50	7,143	1,471	1,401	8.3	22.7	35.6	8.59
<b>Percent of Floorspace Cooled</b>										
Not Cooled .....	5	Q	1	1,080	Q	75	4.8	Q	19.9	25.53
1 to 50 .....	17	Q	10	3,008	Q	474	5.5	Q	20.1	14.15
51 to 99 .....	14	13	23	1,538	576	684	9.3	23.0	32.9	13.91
100 .....	33	26	40	2,844	1,081	1,016	11.5	23.9	39.2	11.51
<b>Percent Lit when Open</b>										
Not Lit .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50 .....	Q	Q	5	Q	Q	329	Q	Q	14.1	20.90
51 to 99 .....	17	6	13	2,044	351	446	8.3	16.4	29.7	17.69
100 .....	51	34	55	6,284	1,368	1,473	8.1	25.0	37.6	8.82
<b>Percent Lit when Closed</b>										
Not Lit .....	28	35	31	3,097	1,401	873	9.0	25.2	35.6	11.17
1 to 50 .....	39	5	37	5,233	362	1,249	7.5	14.1	30.0	12.56
51 to 99 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
100 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.20. Electricity Consumption and Conditional Energy Intensity for Education, Health Care, and Food Sales and Service Buildings, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
	1.1	1.5	1.1	1.0	1.3	1.1	0.6	0.8	0.8	
<b>Lighting Equipment (more than one may apply)</b>										
Incandescent .....	42	35	50	5,368	1,446	1,615	7.8	24.3	31.2	9.73
Standard Fluorescent .....	68	40	71	8,379	1,754	2,187	8.2	22.9	32.5	7.96
Compact Fluorescent .....	7	15	Q	846	647	Q	8.6	23.8	Q	16.00
High-Intensity Discharge .....	28	13	8	3,186	551	197	8.9	23.4	42.9	16.25
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Commercial Refrigeration Equipment (more than one may apply)</b>										
Any Equipment .....	46	33	73	5,636	1,333	2,199	8.2	24.8	33.0	8.75
Walk-in Units .....	36	31	67	4,169	1,191	1,979	8.7	26.1	34.0	9.52
Cases and Cabinets .....	36	28	70	4,414	1,179	2,078	8.3	24.1	33.5	9.17
None .....	23	7	Q	2,833	430	Q	8.0	17.1	Q	16.55
<b>Personal Computers and/or Computer Terminals</b>										
1 to 4 .....	5	Q	22	687	93	549	7.8	30.6	39.6	19.12
5 to 9 .....	4	1	10	496	107	213	7.4	12.1	45.5	25.37
10 to 19 .....	7	3	Q	1,166	192	Q	5.9	17.8	Q	22.71
20 to 49 .....	16	Q	Q	2,323	Q	Q	7.0	Q	Q	11.90
50 or More .....	33	29	Q	3,326	1,140	Q	9.9	25.1	Q	11.88
<b>Annual Consumption (kilowatthours)</b>										
10,000 or Less .....	(*)	Q	(*)	59	Q	15	2.8	2.9	3.0	28.66
10,001 to 50,000 .....	3	Q	2	550	Q	244	5.1	Q	9.1	15.70
50,001 to 100,000 .....	4	Q	8	887	Q	419	4.9	Q	18.3	17.26
100,001 to 500,000 .....	17	2	40	2,918	230	1,158	5.9	10.1	34.9	12.78
500,001 to 1,000,000 .....	13	Q	Q	1,551	Q	Q	8.7	Q	Q	15.01
1,000,001 to 5,000,000 .....	22	12	Q	2,041	496	Q	10.8	23.9	Q	15.60
Over 5,000,000 .....	Q	24	Q	Q	794	Q	Q	29.7	Q	8.96
<b>Peak Electricity Demand (kilowatts)</b>										
10 or Less .....	(*)	Q	Q	79	Q	Q	2.6	Q	Q	38.59
11 to 25 .....	1	Q	3	175	Q	197	5.6	Q	16.1	21.67
26 to 50 .....	2	Q	12	489	Q	466	4.6	Q	25.9	20.36
51 to 100 .....	5	Q	18	1,020	Q	447	5.1	Q	40.5	17.93
101 to 250 .....	12	Q	14	1,723	Q	387	7.2	Q	36.0	17.57
251 to 1,000 .....	24	9	Q	2,519	374	Q	9.7	24.3	Q	15.42
Over 1,000 .....	11	22	Q	632	743	Q	17.3	29.7	Q	17.03
<b>Season of Peak Electricity Demand</b>										
Summer .....	31	28	43	3,752	1,175	1,261	8.3	24.2	34.3	10.98
Winter .....	22	Q	16	2,579	Q	409	8.6	Q	38.5	14.11
Summer and Winter .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.20. Electricity Consumption and Conditional Energy Intensity for Education, Health Care, and Food Sales and Service Buildings, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
	1.1	1.5	1.1	1.0	1.3	1.1	0.6	0.8	0.8	
RSE Column Factor:	1.1	1.5	1.1	1.0	1.3	1.1	0.6	0.8	0.8	
<b>Building Generates Electricity</b>										
Yes .....	12	29	Q	1,309	1,155	Q	9.0	25.3	Q	13.36
No .....	57	11	66	7,161	607	2,111	8.0	18.3	31.3	10.30

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

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.21. Electricity Consumption and Conditional Energy Intensity in Older Buildings by Year Constructed, 1992**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	
	1.1	1.3	1.1	0.9	1.1	1.0	0.9	1.0	0.8	
<b>RSE Column Factor:</b>	<b>1.1</b>	<b>1.3</b>	<b>1.1</b>	<b>0.9</b>	<b>1.1</b>	<b>1.0</b>	<b>0.9</b>	<b>1.0</b>	<b>0.8</b>	
<b>All Buildings</b> .....	192	155	184	23,642	12,473	13,779	8.1	12.4	13.4	6.82
<b>Building Floorspace (square feet)</b>										
1,001 to 5,000 .....	29	16	27	2,937	1,117	1,479	9.9	14.1	18.4	9.15
5,001 to 10,000 .....	29	10	17	3,198	964	1,484	9.2	10.3	11.3	13.48
10,001 to 25,000 .....	30	21	19	3,932	1,883	1,814	7.6	11.2	10.5	11.22
25,001 to 50,000 .....	29	15	27	3,881	1,829	2,173	7.3	8.4	12.7	15.90
50,001 to 100,000 .....	16	19	23	2,582	1,595	1,774	6.3	12.1	13.1	15.10
100,001 to 200,000 .....	25	23	19	3,360	2,305	1,654	7.5	9.8	11.5	19.21
200,001 to 500,000 .....	19	24	34	2,057	1,444	1,984	9.0	16.4	17.3	20.19
Over 500,000 .....	15	27	17	1,696	1,335	1,418	8.7	20.2	12.3	26.11
<b>Principal Building Activity</b>										
Education .....	18	22	20	3,431	2,405	1,728	5.4	9.1	11.5	10.80
Food Sales .....	7	Q	8	246	Q	155	29.5	Q	54.5	22.64
Food Service .....	15	4	13	734	187	365	20.3	20.5	36.7	18.82
Health Care .....	10	12	13	397	492	544	24.2	23.4	23.4	17.84
Lodging .....	15	7	10	934	482	579	15.6	15.1	16.4	23.17
Mercantile and Service .....	26	32	31	3,925	2,678	2,607	6.6	12.1	12.0	11.70
Office .....	53	37	45	3,941	2,187	2,283	13.4	17.1	19.6	13.61
Parking Garage .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Public Assembly .....	7	6	16	1,148	552	1,095	6.4	10.6	14.5	17.41
Public Order and Safety .....	Q	Q	2	Q	Q	168	Q	Q	9.6	30.38
Religious Worship .....	4	2	1	2,143	628	505	2.1	2.8	2.9	19.95
Warehouse and Storage .....	19	18	14	3,928	1,800	2,308	4.9	9.9	6.0	19.58
Other .....	9	4	Q	497	181	Q	17.6	20.5	Q	31.78
Vacant .....	6	1	1	1,849	313	558	3.4	1.7	2.6	30.03
<b>Census Region and Division</b>										
Northeast .....	42	28	24	6,321	2,476	2,120	6.7	11.4	11.6	13.50
New England .....	9	4	9	1,433	436	634	6.3	10.1	13.8	20.60
Middle Atlantic .....	33	24	16	4,888	2,039	1,486	6.8	11.7	10.6	18.33
Midwest .....	48	39	45	6,651	2,632	3,985	7.2	14.9	11.3	12.27
East North Central .....	31	24	26	4,635	1,846	2,288	6.8	13.1	11.3	14.05
West North Central .....	16	15	19	2,016	785	1,697	8.1	19.1	11.3	22.86
South .....	65	55	74	7,173	4,820	4,824	9.0	11.4	15.3	11.20
South Atlantic .....	31	30	36	2,519	2,644	2,208	12.2	11.4	16.4	16.49
East South Central .....	14	10	20	1,630	903	1,187	8.9	11.5	16.6	23.70
West South Central .....	20	14	18	3,024	1,273	1,429	6.5	11.2	12.5	15.56
West .....	37	32	41	3,497	2,545	2,850	10.6	12.8	14.4	14.27
Mountain .....	12	9	11	1,056	664	690	11.7	13.5	15.7	23.17
Pacific .....	25	24	30	2,440	1,881	2,160	10.1	12.5	14.0	17.22
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and --										
More than 7,000 HDD .....	13	15	18	2,131	842	1,491	6.3	17.8	12.1	19.27
5,500-7,000 HDD .....	52	36	43	7,783	2,797	3,557	6.7	12.7	12.1	14.01
4,000-5,499 HDD .....	61	37	32	6,547	3,348	2,813	9.3	11.1	11.2	13.03
Fewer than 4,000 HDD .....	33	44	59	3,963	2,961	3,624	8.4	14.9	16.2	15.24
More than 2,000 CDD and --										
Fewer than 4,000 HDD .....	32	23	33	3,219	2,524	2,295	10.0	9.0	14.4	16.16
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	192	155	184	23,642	12,473	13,779	8.1	12.4	13.4	6.82
Natural Gas .....	136	113	127	17,059	8,871	9,215	8.0	12.8	13.7	8.08
Fuel Oil .....	46	36	48	4,503	2,363	2,735	10.2	15.2	17.6	15.50
District Heat .....	25	27	13	1,967	1,419	976	12.7	19.0	13.8	25.93
District Chilled Water .....	8	8	9	652	375	480	12.5	22.1	17.7	26.72
Propane .....	12	5	12	943	642	786	12.3	7.8	14.8	22.85
Any Other .....	3	Q	2	729	Q	268	4.4	Q	7.5	24.08

See footnotes at end of table.

**Table 3.21. Electricity Consumption and Conditional Energy Intensity in Older Buildings by Year Constructed, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	
	RSE Column Factor:	1.1	1.3	1.1	0.9	1.1	1.0	0.9	1.0	
<b>Energy End Uses (more than one may apply)</b>										
Heated Buildings .....	182	146	179	22,036	11,548	12,813	8.3	12.6	14.0	6.64
Buildings with A/C .....	171	142	178	18,912	10,601	12,286	9.1	13.4	14.5	6.90
Buildings with Water Heating .....	176	148	176	20,372	11,006	12,368	8.7	13.5	14.3	6.87
Buildings with Cooking .....	69	72	93	6,903	4,920	5,071	10.1	14.6	18.4	9.18
Buildings with Manufacturing .....	12	6	7	1,478	394	652	7.9	16.1	10.9	22.25
<b>Workers (main shift)</b>										
Less than 5 .....	30	17	23	6,841	2,668	2,954	4.4	6.2	7.8	11.65
5 to 9 .....	24	10	19	3,343	1,227	1,577	7.3	8.4	12.0	13.12
10 to 19 .....	26	13	23	3,323	1,211	1,789	7.9	10.7	13.1	15.42
20 to 49 .....	43	26	24	3,815	2,180	2,088	11.2	11.8	11.3	12.69
50 to 99 .....	22	25	21	2,890	1,685	1,424	7.6	14.9	14.8	19.52
100 or More .....	46	64	74	3,430	3,502	3,949	13.4	18.3	18.8	13.09
<b>Weekly Operating Hours</b>										
39 or Fewer .....	10	3	4	3,673	1,198	1,273	2.8	2.9	3.3	15.57
40 to 48 .....	45	24	32	6,255	2,617	2,609	7.2	9.1	12.3	13.25
49 to 60 .....	38	21	25	5,816	2,363	2,466	6.5	8.9	10.2	12.85
61 to 84 .....	27	32	36	2,956	2,687	2,762	9.0	11.9	13.2	14.66
85 to 167 .....	30	31	39	2,572	1,910	2,238	11.6	16.4	17.5	13.52
Open Continuously .....	42	43	48	2,369	1,697	2,431	17.8	25.4	19.5	14.85
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	152	103	142	18,314	8,441	10,557	8.3	12.2	13.4	8.27
Owner Occupied .....	124	86	113	14,110	6,718	7,958	8.8	12.8	14.1	8.92
Single Establishment .....	102	75	91	11,138	5,824	6,260	9.1	12.9	14.5	10.06
Multiple Establishment .....	22	11	22	2,971	894	1,698	7.4	12.4	12.8	15.76
Nonowner Occupied .....	26	17	28	3,684	1,485	2,380	7.2	11.4	11.9	14.79
Single Establishment .....	16	7	12	1,906	557	999	8.2	13.4	12.5	20.01
Multiple Establishment .....	11	9	16	1,779	928	1,381	6.1	10.2	11.5	18.28
Vacant .....	Q	Q	Q	520	Q	Q	Q	Q	Q	28.65
Government Owned .....	40	51	43	5,329	4,032	3,222	7.5	12.7	13.3	11.67
<b>Predominant Exterior Wall Material</b>										
Masonry .....	163	102	125	20,376	8,486	9,161	8.0	12.1	13.6	7.32
Siding or Shingles .....	11	5	9	1,490	525	662	7.4	9.9	13.8	16.72
Metal Panels .....	Q	10	17	1,277	1,349	1,834	9.7	7.1	9.1	20.47
Concrete Panels .....	Q	24	18	Q	1,495	1,497	Q	16.1	11.9	19.64
Window Glass .....	Q	Q	12	Q	463	405	Q	25.3	28.9	28.46
Other .....	Q	Q	4	Q	Q	220	Q	Q	19.3	32.28
<b>Predominant Roof Material</b>										
Built-Up .....	103	89	90	11,350	6,520	5,822	9.0	13.7	15.4	8.95
Shingles (Not Wood) .....	28	21	22	4,911	1,557	2,064	5.8	13.7	10.5	15.05
Metal Surfacing .....	8	8	20	1,640	1,459	2,156	5.1	5.4	9.1	19.25
Synthetic or Rubber .....	36	30	38	3,552	2,139	2,542	10.0	14.0	15.0	13.38
Other .....	17	6	15	2,189	798	1,196	7.7	8.0	12.7	18.68
<b>Space-Heating Energy Source</b>										
Electricity .....	65	52	95	6,578	3,880	6,191	9.9	13.4	15.4	10.01
Electricity Main .....	32	25	64	2,779	1,893	3,800	11.7	13.4	16.8	11.76
Electricity Secondary .....	33	27	31	3,799	1,987	2,391	8.6	13.4	13.1	15.82
Other Excluding Electricity .....	117	94	84	15,458	7,668	6,622	7.5	12.2	12.6	8.36
Building Not Heated .....	Q	Q	5	1,606	925	967	6.1	Q	5.5	31.28

See footnotes at end of table.



**Table 3.21. Electricity Consumption and Conditional Energy Intensity in Older Buildings by Year Constructed, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	
	RSE Column Factor:	1.1	1.3	1.1	0.9	1.1	1.0	0.9	1.0	
<b>Main Space-Heating Energy Source</b>										
Electricity .....	32	25	64	2,779	1,893	3,800	11.7	13.4	16.8	11.76
Natural Gas .....	101	88	94	13,989	7,223	7,024	7.2	12.2	13.3	8.73
Fuel Oil .....	18	5	5	2,551	739	700	7.1	7.1	7.3	17.32
District Heat .....	23	25	12	1,839	1,339	759	12.7	18.7	16.2	20.56
Propane .....	3	Q	2	370	Q	273	8.2	Q	9.2	35.31
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Main Heating</b>										
Electricity Only .....	7	4	5	1,009	422	506	7.3	8.6	10.3	18.70
Natural Gas Only .....	8	5	5	909	528	482	9.1	Q	10.1	25.72
Fuel Oil Only .....	21	19	23	2,065	1,339	1,354	10.0	14.1	16.7	22.39
Propane Only .....	5	3	7	631	399	554	8.0	8.4	12.9	24.59
Any Other Single Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source .....	2	Q	Q	394	Q	Q	5.9	Q	Q	21.08
No Replacement Energy Source .....	136	112	137	16,785	8,647	9,652	8.1	12.9	14.2	7.63
Building Not Heated .....	Q	Q	5	1,606	925	967	6.1	Q	5.5	31.28
<b>Cooling Energy Source</b>										
Electricity .....	164	135	166	18,222	10,231	11,375	9.0	13.2	14.6	6.99
Other Excluding Electricity .....	8	7	12	690	370	911	11.1	18.6	12.9	27.53
A/C Not Performed .....	20	13	7	4,730	1,872	1,494	4.3	7.0	4.4	20.51
<b>Water-Heating Energy Source</b>										
Electricity .....	60	44	90	7,259	3,423	5,946	8.3	12.7	15.1	10.73
Other Excluding Electricity .....	116	105	87	13,112	7,584	6,422	8.9	13.8	13.5	8.40
Water Heating Not Performed .....	15	7	8	3,271	1,466	1,411	4.7	4.5	5.6	20.03
<b>Cooking Energy Source</b>										
Electricity .....	31	42	48	2,726	2,734	2,427	11.4	15.4	19.6	12.66
Other Excluding Electricity .....	38	30	46	4,177	2,186	2,643	9.2	13.6	17.2	13.88
Cooking Not Performed .....	122	83	91	16,740	7,553	8,709	7.3	11.0	10.5	9.13
<b>Percent of Floorspace Heated</b>										
Not Heated .....	Q	Q	5	1,606	925	967	6.1	Q	5.5	31.28
1 to 50 .....	21	17	17	4,779	2,060	2,059	4.4	8.5	8.4	19.57
51 to 99 .....	29	25	33	3,692	2,061	2,039	7.9	12.3	16.3	12.38
100 .....	131	103	129	13,565	7,427	8,715	9.7	13.8	14.7	7.62
<b>Percent of Floorspace Cooled</b>										
Not Cooled .....	20	13	7	4,730	1,872	1,494	4.3	7.0	4.4	20.51
1 to 50 .....	49	25	30	9,565	3,604	3,881	5.2	7.1	7.8	10.49
51 to 99 .....	47	55	54	4,035	3,167	3,035	11.7	17.5	17.7	11.13
100 .....	75	61	94	5,312	3,830	5,370	14.1	15.8	17.5	9.39
<b>Percent Lit when Open</b>										
Not Lit .....	2	Q	(*)	789	Q	Q	2.0	Q	0.9	31.12
1 to 50 .....	24	6	6	5,274	1,523	1,414	4.6	3.7	4.4	16.57
51 to 99 .....	41	25	39	5,026	2,264	2,980	8.1	11.1	13.2	10.54
100 .....	125	124	138	12,554	8,369	8,988	10.0	14.8	15.4	8.35
<b>Percent Lit when Closed</b>										
Not Lit .....	96	71	83	11,585	5,863	6,562	8.3	12.1	12.7	9.17
1 to 50 .....	88	77	97	11,493	6,118	6,851	7.7	12.6	14.1	8.89
51 to 99 .....	5	Q	Q	284	Q	Q	16.6	Q	Q	30.01
100 .....	2	Q	Q	279	Q	Q	8.8	Q	Q	30.13

See footnotes at end of table.

**Table 3.21. Electricity Consumption and Conditional Energy Intensity in Older Buildings by Year Constructed, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	
	RSE Column Factor:	1.1	1.3	1.1	0.9	1.1	1.0	0.9	1.0	
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	29	16	30	1,934	1,055	1,783	14.7	14.7	16.7	17.31
Furnaces .....	49	36	32	7,344	3,367	2,980	6.6	10.6	10.8	12.07
Individual Space Heaters .....	52	47	69	7,329	3,862	5,434	7.1	12.1	12.8	10.96
District Heat .....	26	26	13	2,015	1,363	972	13.0	19.1	13.9	21.41
Boilers .....	73	53	58	8,964	4,027	3,734	8.1	13.1	15.6	9.60
Packaged Heating Units .....	39	43	58	3,664	3,226	3,911	10.7	13.4	14.8	12.36
Other .....	Q	Q	8	Q	Q	231	Q	Q	33.6	22.04
<b>Cooling Equipment (more than one may apply)</b>										
Residential-Type Central A/C .....	36	18	24	4,144	1,528	1,800	8.7	11.8	13.3	14.39
Heat Pumps .....	27	17	31	1,946	1,170	1,807	13.7	14.8	17.2	16.53
Individual A/C .....	57	45	30	8,783	3,603	2,586	6.5	12.5	11.5	11.47
District Chilled Water .....	8	8	9	652	376	632	12.5	22.1	13.5	28.76
Central Chillers .....	47	56	60	2,854	3,032	3,306	16.4	18.4	18.0	13.45
Packaged A/C Units .....	86	72	100	8,357	5,411	6,494	10.3	13.3	15.4	9.24
Swamp Coolers .....	8	7	5	544	510	386	14.6	14.5	12.2	25.92
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Lighting Equipment (more than one may apply)</b>										
Incandescent .....	137	96	118	16,118	7,220	7,853	8.5	13.4	15.0	8.11
Standard Fluorescent .....	179	147	179	21,605	11,720	13,069	8.3	12.5	13.7	6.66
Compact Fluorescent .....	23	28	37	1,961	1,764	1,958	11.8	15.9	18.8	16.39
High-Intensity Discharge .....	40	49	55	4,554	3,382	3,734	8.8	14.4	14.7	14.50
Other .....	Q	Q	Q	537	Q	Q	12.8	Q	Q	46.56
<b>Commercial Refrigeration Equipment (more than one may apply)</b>										
Any Equipment .....	84	85	103	7,689	5,346	5,627	10.9	15.9	18.3	8.92
Walk-in Units .....	65	70	88	4,761	4,015	4,707	13.5	17.4	18.8	9.82
Cases and Cabinets .....	72	72	87	6,431	4,280	4,507	11.2	16.7	19.4	9.64
None .....	108	70	81	15,953	7,127	8,153	6.8	9.8	10.0	9.73
<b>Personal Computers and/or Computer Terminals</b>										
1 to 4 .....	34	23	32	5,282	1,975	3,168	6.4	11.7	10.3	11.97
5 to 9 .....	14	12	16	1,712	1,001	1,444	8.3	12.1	11.3	15.90
10 to 19 .....	17	16	15	1,933	1,390	1,182	8.7	11.6	12.6	16.38
20 to 49 .....	19	18	21	2,554	1,552	1,419	7.5	11.8	14.5	17.18
50 or More .....	56	64	69	3,793	3,456	3,405	14.7	18.4	20.1	12.94
<b>Annual Consumption (kilowatthours)</b>										
10,000 or Less .....	3	1	1	2,775	713	611	0.9	1.2	1.5	12.38
10,001 to 50,000 .....	20	7	8	5,497	2,041	2,044	3.7	3.4	4.1	9.48
50,001 to 100,000 .....	17	8	12	2,880	1,091	1,458	5.8	7.6	8.2	10.99
100,001 to 500,000 .....	53	31	43	6,310	2,993	3,413	8.5	10.4	12.5	10.20
500,001 to 1,000,000 .....	19	16	21	1,577	1,443	1,593	12.1	11.1	13.1	14.83
1,000,001 to 5,000,000 .....	54	42	48	3,568	2,416	2,369	15.1	17.5	20.1	13.18
Over 5,000,000 .....	26	49	52	1,034	1,775	2,291	24.8	27.7	22.7	19.15
<b>Peak Electricity Demand (kilowatts)</b>										
10 or Less .....	2	1	1	1,028	486	507	2.3	2.6	2.7	22.16
11 to 25 .....	9	3	4	1,978	840	808	4.6	4.1	5.5	16.95
26 to 50 .....	15	8	11	2,126	755	957	7.2	11.1	11.1	15.01
51 to 100 .....	22	10	24	2,723	1,219	1,614	8.1	7.9	15.1	14.78
101 to 250 .....	27	22	25	2,610	1,836	1,811	10.5	11.9	13.6	14.55
251 to 1,000 .....	44	36	44	3,605	2,345	2,187	12.2	15.3	20.3	15.58
Over 1,000 .....	29	44	44	1,160	1,494	2,407	25.0	29.4	18.2	20.71

See footnotes at end of table.

**Table 3.21. Electricity Consumption and Conditional Energy Intensity in Older Buildings by Year Constructed, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	
	1.1	1.3	1.1	0.9	1.1	1.0	0.9	1.0	0.8	
RSE Column Factor:	1.1	1.3	1.1	0.9	1.1	1.0	0.9	1.0	0.8	
<b>Season of Peak Electricity Demand</b>										
Summer .....	101	80	103	8,715	5,354	6,925	11.6	14.9	14.8	11.17
Winter .....	36	37	47	5,392	3,095	2,986	6.8	11.9	15.6	13.81
Summer and Winter .....	11	7	4	1,122	526	379	10.2	14.1	11.3	25.05
<b>Building Generates Electricity</b>										
Yes .....	35	32	51	1,950	1,881	2,849	17.8	17.0	18.0	14.81
No .....	157	123	133	21,692	10,592	10,931	7.2	11.6	12.2	7.52

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

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.22. Electricity Consumption and Conditional Energy Intensity  
in Newer Buildings by Year Constructed, 1992**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	
	RSE Column Factor:	0.9	1.3	1.4	0.8	1.1	1.3	0.6	0.8	
<b>All Buildings</b> .....	144	58	32	10,042	4,106	2,482	14.3	14.2	12.9	9.79
<b>Building Floorspace (square feet)</b>										
1,001 to 5,000 .....	18	5	2	1,002	260	189	18.1	20.4	13.0	18.59
5,001 to 10,000 .....	11	5	1	891	342	176	12.4	15.4	8.1	23.86
10,001 to 25,000 .....	17	8	3	1,595	576	298	10.8	14.4	9.2	19.04
25,001 to 50,000 .....	20	6	5	1,164	482	327	17.2	11.8	14.6	21.91
50,001 to 100,000 .....	20	7	5	1,320	387	268	14.9	18.4	17.6	20.49
100,001 to 200,000 .....	26	5	4	1,626	444	269	15.8	12.2	13.3	25.73
200,001 to 500,000 .....	16	5	9	1,207	315	670	13.2	15.0	12.7	25.39
Over 500,000 .....	16	16	4	1,237	1,299	285	12.9	12.6	13.3	24.24
<b>Principal Building Activity</b>										
Education .....	5	2	2	480	173	253	9.7	10.4	8.7	23.23
Food Sales .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Food Service .....	5	Q	Q	103	Q	Q	46.2	Q	Q	35.54
Health Care .....	5	Q	Q	240	Q	Q	22.5	Q	Q	28.38
Lodging .....	14	Q	2	550	Q	97	25.8	Q	15.9	28.55
Mercantile and Service .....	28	7	6	2,104	535	538	13.1	12.9	11.2	21.07
Office .....	46	14	11	2,419	899	590	19.1	15.9	18.3	15.69
Parking Garage .....	Q	Q	Q	Q	Q	124	Q	Q	5.7	29.16
Public Assembly .....	5	Q	3	461	Q	197	10.8	Q	17.1	27.39
Public Order and Safety .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Religious Worship .....	1	Q	Q	358	Q	Q	3.4	Q	Q	31.02
Warehouse and Storage .....	16	4	3	2,183	587	374	7.5	7.0	7.0	20.46
Other .....	4	Q	Q	124	Q	Q	30.4	Q	Q	43.10
Vacant .....	Q	Q	Q	520	Q	68	8.5	Q	6.5	44.33
<b>Census Region and Division</b>										
Northeast .....	19	5	4	1,534	499	286	12.5	9.2	14.5	21.49
New England .....	5	Q	Q	497	Q	Q	9.7	Q	Q	43.89
Middle Atlantic .....	14	3	3	1,036	327	194	13.9	8.9	15.3	25.37
Midwest .....	34	9	8	2,473	498	663	13.6	17.1	12.1	20.40
East North Central .....	17	6	Q	1,171	271	362	14.4	20.9	17.2	26.71
West North Central .....	17	3	2	1,302	227	301	12.8	12.7	6.1	25.15
South .....	55	34	11	3,886	2,367	903	14.1	14.5	12.4	14.59
South Atlantic .....	21	11	5	1,791	783	487	11.8	14.3	11.0	22.26
East South Central .....	16	5	3	903	350	264	18.0	14.1	11.8	22.29
West South Central .....	18	18	3	1,192	1,234	151	14.8	14.6	17.8	22.90
West .....	36	11	9	2,151	742	630	16.7	14.6	13.7	17.11
Mountain .....	16	4	2	774	229	148	20.8	16.3	15.5	30.11
Pacific .....	20	7	6	1,376	513	482	14.4	13.9	13.1	21.23
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and --										
More than 7,000 HDD .....	8	Q	Q	749	Q	Q	10.4	Q	Q	25.75
5,500-7,000 HDD .....	33	8	10	2,310	591	681	14.3	13.5	15.4	20.29
4,000-5,499 HDD .....	28	10	7	1,971	727	559	14.2	13.5	12.8	18.77
Fewer than 4,000 HDD .....	35	15	9	2,483	1,106	727	13.9	13.2	11.9	17.47
More than 2,000 CDD and --										
Fewer than 4,000 HDD .....	40	24	5	2,529	1,518	415	16.0	15.7	12.1	21.79
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	144	58	32	10,042	4,106	2,482	14.3	14.2	12.9	9.79
Natural Gas .....	87	32	23	6,260	1,957	1,624	14.0	16.4	14.3	12.76
Fuel Oil .....	37	11	14	2,122	748	737	17.5	14.5	19.1	20.98
District Heat .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
District Chilled Water .....	Q	Q	3	184	Q	164	34.0	Q	15.7	31.33
Propane .....	8	1	1	609	201	205	12.5	7.4	6.2	32.45
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.22. Electricity Consumption and Conditional Energy Intensity in Newer Buildings by Year Constructed, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	
	RSE Column Factor:	0.9	1.3	1.4	0.8	1.1	1.3	0.6	0.8	
<b>Energy End Uses (more than one may apply)</b>										
Heated Buildings .....	138	57	31	9,393	3,878	2,297	14.7	14.7	13.6	9.94
Buildings with A/C .....	140	55	31	9,225	3,760	2,258	15.1	14.7	13.9	10.09
Buildings with Water Heating .....	136	57	30	8,869	3,696	2,167	15.4	15.4	13.6	10.24
Buildings with Cooking .....	59	34	14	3,197	2,117	859	18.3	16.1	15.8	16.28
Buildings with Manufacturing .....	7	Q	Q	504	Q	Q	14.2	Q	Q	38.07
<b>Workers (main shift)</b>										
Less than 5 .....	20	19	4	2,071	1,586	497	9.7	11.8	8.0	23.23
5 to 9 .....	10	4	1	882	343	152	11.5	10.8	8.3	21.60
10 to 19 .....	15	6	2	1,142	389	201	13.3	15.4	10.5	25.31
20 to 49 .....	18	9	4	1,560	514	399	11.6	18.1	11.3	20.28
50 to 99 .....	20	6	4	1,117	347	301	17.5	15.9	12.5	24.38
100 or More .....	61	15	16	3,271	926	933	18.5	16.1	17.6	15.80
<b>Weekly Operating Hours</b>										
39 or Fewer .....	4	1	2	613	141	167	5.9	4.7	9.2	31.11
40 to 48 .....	27	7	8	2,264	646	554	11.8	10.1	14.0	20.54
49 to 60 .....	26	8	8	2,104	616	654	12.3	12.5	11.8	15.61
61 to 84 .....	33	8	5	2,498	709	415	13.1	11.8	12.2	21.59
85 to 167 .....	17	9	5	920	542	273	18.6	17.3	18.4	20.58
Open Continuously .....	38	26	5	1,643	1,451	420	23.0	17.6	11.7	22.86
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	130	52	24	8,962	3,518	1,788	14.5	14.8	13.2	10.92
Owner Occupied .....	100	27	18	6,290	1,781	1,300	16.0	15.2	13.5	12.38
Single Establishment .....	71	23	12	4,143	1,417	970	17.2	16.1	12.3	12.30
Multiple Establishment .....	29	4	Q	2,147	364	330	13.6	11.7	16.9	23.19
Nonowner Occupied .....	28	25	6	2,423	1,716	468	11.6	14.3	12.8	19.51
Single Establishment .....	9	18	3	663	1,200	197	13.6	14.8	15.7	25.46
Multiple Establishment .....	19	7	3	1,760	517	271	10.9	13.3	10.8	24.13
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned .....	14	6	8	1,081	588	695	12.5	10.5	12.2	21.47
<b>Predominant Exterior Wall Material</b>										
Masonry .....	83	42	20	5,608	2,658	1,525	14.9	15.9	13.0	12.65
Siding or Shingles .....	9	2	1	707	178	85	13.3	11.6	13.7	24.20
Metal Panels .....	24	3	3	1,871	550	244	13.1	5.3	10.8	23.63
Concrete Panels .....	8	7	6	732	445	464	11.2	15.0	13.7	19.76
Window Glass .....	11	3	1	685	202	76	16.2	14.5	11.6	20.36
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Predominant Roof Material</b>										
Built-Up .....	58	29	10	3,556	1,809	699	16.4	15.9	14.4	17.79
Shingles (Not Wood) .....	15	3	2	1,310	278	200	11.7	12.2	12.0	20.57
Metal Surfacing .....	23	8	4	2,121	798	460	10.7	9.4	9.4	18.41
Synthetic or Rubber .....	28	14	12	1,688	817	858	16.3	16.8	14.3	15.01
Other .....	20	5	3	1,367	404	265	14.4	12.1	11.1	28.81
<b>Space-Heating Energy Source</b>										
Electricity .....	90	35	16	5,657	2,301	1,030	15.9	15.0	15.3	13.96
Electricity Main .....	70	31	11	4,254	1,976	800	16.4	15.9	14.3	16.29
Electricity Secondary .....	20	3	4	1,403	324	230	14.2	10.0	18.8	21.90
Other Excluding Electricity .....	48	23	15	3,736	1,577	1,267	12.9	14.3	12.2	14.34
Building Not Heated .....	6	1	Q	649	228	186	9.1	4.5	4.8	34.34

See footnotes at end of table.

**Table 3.22. Electricity Consumption and Conditional Energy Intensity in Newer Buildings by Year Constructed, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	
	0.9	1.3	1.4	0.8	1.1	1.3	0.6	0.8	1.0	
RSE Column Factor:										
<b>Main Space-Heating Energy Source</b>										
Electricity .....	70	31	11	4,254	1,976	800	16.4	15.9	14.3	16.29
Natural Gas .....	53	22	17	4,175	1,485	1,225	12.8	15.1	13.7	14.02
Fuel Oil .....	2	Q	Q	211	Q	Q	8.7	Q	Q	35.25
District Heat .....	11	Q	2	516	Q	157	21.1	Q	14.6	27.43
Propane .....	2	Q	Q	177	Q	Q	8.8	Q	Q	44.59
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Main Heating</b>										
Electricity Only .....	3	2	Q	366	201	Q	9.5	9.6	Q	31.70
Natural Gas Only .....	3	Q	Q	203	Q	Q	14.0	Q	Q	41.48
Fuel Oil Only .....	11	Q	3	509	Q	107	20.7	Q	23.9	22.51
Propane Only .....	3	Q	Q	334	Q	Q	9.5	Q	Q	50.96
Any Other Single Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
No Replacement Energy Source .....	115	50	26	7,791	3,265	2,014	14.8	15.2	13.1	11.05
Building Not Heated .....	6	1	Q	649	228	186	9.1	4.5	4.8	34.34
<b>Cooling Energy Source</b>										
Electricity .....	133	54	29	9,002	3,690	2,108	14.8	14.7	14.0	10.24
Other Excluding Electricity .....	Q	Q	2	222	Q	149	27.5	Q	12.3	33.01
A/C Not Performed .....	4	Q	1	818	345	225	5.1	Q	3.1	25.31
<b>Water-Heating Energy Source</b>										
Electricity .....	80	37	12	5,278	2,596	980	15.2	14.3	11.8	13.33
Other Excluding Electricity .....	56	20	18	3,591	1,100	1,187	15.6	17.9	15.2	13.94
Water Heating Not Performed .....	7	1	2	1,174	410	316	6.4	3.4	7.8	24.06
<b>Cooking Energy Source</b>										
Electricity .....	40	24	10	2,091	1,615	590	19.2	15.1	16.3	21.92
Other Excluding Electricity .....	19	10	4	1,105	502	269	16.8	19.6	14.8	19.07
Cooking Not Performed .....	85	24	18	6,846	1,989	1,623	12.4	12.1	11.4	11.08
<b>Percent of Floorspace Heated</b>										
Not Heated .....	6	1	Q	649	228	186	9.1	4.5	4.8	34.34
1 to 50 .....	12	5	2	1,690	640	279	7.1	7.5	7.4	26.14
51 to 99 .....	27	6	5	1,631	438	338	16.7	14.8	15.8	20.15
100 .....	99	46	24	6,073	2,799	1,679	16.2	16.4	14.1	10.97
<b>Percent of Floorspace Cooled</b>										
Not Cooled .....	4	Q	1	818	345	225	5.1	Q	3.1	25.31
1 to 50 .....	25	4	5	3,242	891	534	7.8	5.0	9.5	19.31
51 to 99 .....	41	13	9	2,339	706	590	17.5	18.4	15.4	17.54
100 .....	73	38	17	3,643	2,164	1,134	20.1	17.5	15.2	12.98
<b>Percent Lit when Open</b>										
Not Lit .....	Q	Q	Q	321	Q	Q	5.2	Q	Q	45.43
1 to 50 .....	8	Q	2	1,253	231	280	6.3	Q	5.7	25.06
51 to 99 .....	28	20	6	1,950	1,590	413	14.3	12.9	15.7	19.97
100 .....	106	34	23	6,519	2,226	1,737	16.3	15.4	13.4	10.68
<b>Percent Lit when Closed</b>										
Not Lit .....	72	36	12	5,395	2,594	1,135	13.4	13.8	10.2	13.44
1 to 50 .....	66	21	20	4,313	1,434	1,273	15.2	14.4	15.4	13.00
51 to 99 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
100 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.22. Electricity Consumption and Conditional Energy Intensity in Newer Buildings by Year Constructed, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	
	0.9	1.3	1.4	0.8	1.1	1.3	0.6	0.8	1.0	
RSE Column Factor:										
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	39	9	6	2,290	672	534	17.0	13.0	10.8	21.95
Furnaces .....	27	9	4	2,308	586	323	11.6	14.6	11.0	18.97
Individual Space Heaters .....	55	13	12	4,017	961	761	13.6	13.7	15.5	14.51
District Heat .....	11	2	3	524	149	202	20.9	14.0	15.4	24.06
Boilers .....	30	20	10	1,972	1,424	543	15.1	13.9	18.2	20.16
Packaged Heating Units .....	42	20	11	3,154	1,152	892	13.4	17.2	12.5	14.74
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Equipment (more than one may apply)</b>										
Residential-Type Central A/C .....	11	4	2	992	365	190	10.7	11.6	11.5	21.57
Heat Pumps .....	38	9	6	2,224	697	562	17.0	13.1	10.5	21.69
Individual A/C .....	19	17	2	1,630	1,269	108	11.5	13.3	20.1	25.15
District Chilled Water .....	Q	Q	3	184	Q	164	34.0	Q	15.7	31.33
Central Chillers .....	33	20	10	1,839	1,390	571	17.7	14.4	16.8	17.51
Packaged A/C Units .....	71	27	18	4,788	1,550	1,230	14.8	17.2	14.7	13.28
Swamp Coolers .....	9	Q	Q	428	Q	Q	20.9	Q	Q	37.28
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Lighting Equipment (more than one may apply)</b>										
Incandescent .....	82	29	17	5,131	1,592	1,305	16.0	18.2	13.4	12.70
Standard Fluorescent .....	140	58	30	9,470	3,959	2,244	14.7	14.6	13.2	10.06
Compact Fluorescent .....	26	8	13	1,425	509	719	18.2	14.9	17.8	19.93
High-Intensity Discharge .....	43	14	15	3,503	1,180	1,217	12.4	12.3	12.5	15.21
Other .....	5	Q	1	469	Q	110	11.0	Q	12.4	29.62
<b>Commercial Refrigeration Equipment (more than one may apply)</b>										
Any Equipment .....	67	40	17	3,551	2,186	1,006	18.8	18.1	16.5	13.67
Walk-in Units .....	51	35	13	2,555	1,886	755	19.9	18.3	17.3	16.49
Cases and Cabinets .....	54	36	15	2,870	2,019	879	18.9	18.0	16.7	15.01
None .....	77	19	15	6,491	1,919	1,476	11.8	9.7	10.5	13.02
<b>Personal Computers and/or Computer Terminals</b>										
1 to 4 .....	22	8	4	1,941	569	419	11.3	14.1	10.7	19.30
5 to 9 .....	17	5	3	1,171	381	261	14.5	12.7	12.7	25.70
10 to 19 .....	16	6	4	1,150	340	242	13.7	16.6	Q	30.92
20 to 49 .....	16	7	4	1,138	430	345	14.1	16.3	11.6	21.20
50 or More .....	49	12	14	2,510	769	758	19.5	15.9	18.1	16.60
<b>Annual Consumption (kilowatthours)</b>										
10,000 or Less .....	1	(*)	(*)	444	96	110	1.6	1.6	1.0	22.09
10,001 to 50,000 .....	6	2	1	1,466	442	208	4.2	4.3	4.3	15.34
50,001 to 100,000 .....	7	3	1	954	484	217	7.4	6.0	6.9	22.93
100,001 to 500,000 .....	30	12	5	2,035	780	510	14.8	15.4	9.6	16.56
500,001 to 1,000,000 .....	15	3	4	1,036	307	402	14.7	9.1	10.5	24.09
1,000,001 to 5,000,000 .....	53	20	10	2,887	806	570	18.4	24.4	18.3	16.74
Over 5,000,000 .....	31	19	10	1,221	1,191	465	25.6	15.8	21.4	18.33
<b>Peak Electricity Demand (kilowatts)</b>										
10 or Less .....	(*)	Q	Q	171	Q	Q	2.2	Q	Q	48.49
11 to 25 .....	4	Q	Q	609	Q	Q	6.8	Q	Q	25.58
26 to 50 .....	8	3	Q	712	314	Q	10.7	8.1	Q	22.80
51 to 100 .....	11	5	1	854	267	252	13.4	18.8	5.0	25.64
101 to 250 .....	18	6	6	1,250	518	384	14.0	12.2	14.5	24.17
251 to 1,000 .....	49	16	9	2,620	802	596	18.5	20.6	14.9	22.73
Over 1,000 .....	34	19	10	1,398	1,233	492	24.5	15.6	21.2	19.68

See footnotes at end of table.

**Table 3.22. Electricity Consumption and Conditional Energy Intensity in Newer Buildings by Year Constructed, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	
	RSE Column Factor:	0.9	1.3	1.4	0.8	1.1	1.3	0.6	0.8	
<b>Season of Peak Electricity Demand</b>										
Summer .....	78	34	18	4,599	2,292	1,404	17.0	14.9	12.9	15.01
Winter .....	42	15	9	2,712	956	538	15.7	15.7	16.8	18.55
Summer and Winter .....	3	Q	Q	305	Q	Q	10.0	Q	Q	40.20
<b>Building Generates Electricity</b>										
Yes .....	42	13	13	2,249	731	713	18.6	17.5	18.6	17.03
No .....	102	45	19	7,793	3,375	1,769	13.1	13.5	10.6	10.91

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

NF = No applicable RSE row factor.

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. • 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. • 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.



**Table 3.23. Electricity Consumption and Conditional Energy Intensity for Buildings Cooled with Electricity, 1992**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	All Buildings Cooled with Electricity	Buildings Cooled with Electricity		All Buildings Cooled with Electricity	Buildings Cooled with Electricity		All Buildings Cooled with Electricity	Buildings Cooled with Electricity		
		Heated with Electricity	Not Heated with Electricity		Heated with Electricity	Not Heated with Electricity		Heated with Electricity	Not Heated with Electricity	
RSE Column Factor:	1.0	1.3	1.2	0.9	1.3	1.0	0.7	1.0	0.8	
<b>All Buildings</b> .....	682	340	342	54,628	23,798	30,830	12.5	14.3	11.1	4.59
<b>Building Floorspace (square feet)</b>										
1,001 to 5,000 .....	85	43	42	4,853	1,881	2,972	17.5	22.9	14.1	7.18
5,001 to 10,000 .....	65	30	35	5,452	2,137	3,315	11.9	14.3	10.5	8.73
10,001 to 25,000 .....	90	42	47	8,132	3,414	4,718	11.0	12.4	10.0	7.94
25,001 to 50,000 .....	91	48	44	8,043	3,429	4,614	11.4	13.9	9.5	10.58
50,001 to 100,000 .....	84	35	49	6,970	2,621	4,350	12.0	13.3	11.2	10.15
100,001 to 200,000 .....	88	43	44	7,898	3,019	4,880	11.1	14.4	9.1	12.09
200,001 to 500,000 .....	90	41	49	6,535	2,912	3,623	13.7	14.1	13.4	12.94
Over 500,000 .....	90	57	32	6,744	4,386	2,358	13.3	13.0	13.7	20.01
<b>Principal Building Activity</b>										
Education .....	59	22	36	6,912	1,954	4,958	8.5	11.5	7.3	9.08
Food Sales .....	32	14	18	725	277	448	44.3	50.0	40.7	16.43
Food Service .....	38	15	23	1,365	395	970	28.2	38.2	24.1	13.18
Health Care .....	38	15	23	1,605	625	981	23.5	23.3	23.6	11.67
Lodging .....	47	31	15	2,310	1,431	879	20.2	22.0	17.4	17.11
Mercantile and Service .....	120	65	55	10,669	4,869	5,800	11.3	13.3	9.5	8.39
Office .....	195	103	92	11,576	5,320	6,256	16.8	19.4	14.7	8.39
Parking Garage .....	6	4	Q	800	514	Q	7.5	Q	Q	39.18
Public Assembly .....	47	28	19	3,966	2,167	1,799	11.8	12.8	10.6	13.40
Public Order and Safety .....	8	Q	6	726	Q	550	10.6	Q	10.3	28.15
Religious Worship .....	8	4	5	3,090	1,178	1,912	2.7	3.2	2.4	14.40
Warehouse and Storage .....	54	27	27	7,783	3,905	3,878	6.9	6.8	6.9	12.79
Other .....	20	7	12	915	254	661	21.3	28.7	18.5	19.49
Vacant .....	11	4	7	2,187	733	1,454	4.9	5.4	4.7	24.15
<b>Year Constructed</b>										
1899 or Before .....	10	4	7	1,289	348	941	8.0	10.1	7.2	24.71
1900 to 1919 .....	17	6	11	2,691	756	1,936	6.2	7.5	5.7	20.22
1920 to 1945 .....	57	22	35	6,308	2,003	4,305	9.0	10.9	8.0	15.06
1946 to 1959 .....	80	31	49	7,934	2,626	5,308	10.1	11.8	9.3	10.29
1960 to 1969 .....	135	50	84	10,231	3,619	6,612	13.2	13.9	12.8	9.55
1970 to 1979 .....	166	91	75	11,375	5,726	5,648	14.6	15.8	13.3	8.17
1980 to 1989 .....	188	122	65	12,692	7,773	4,919	14.8	15.8	13.3	8.17
1990 to 1992 .....	29	15	15	2,108	947	1,161	14.0	15.6	12.7	16.56
<b>Census Region and Division</b>										
Northeast .....	110	52	58	10,729	3,874	6,855	10.3	13.5	8.4	9.96
New England .....	26	12	14	2,572	909	1,663	10.0	13.3	8.2	18.71
Middle Atlantic .....	84	40	44	8,157	2,965	5,192	10.4	13.6	8.5	13.39
Midwest .....	157	53	104	13,544	4,274	9,270	11.6	12.3	11.2	9.46
East North Central .....	98	34	64	8,461	2,729	5,732	11.6	12.5	11.1	13.45
West North Central .....	59	18	41	5,083	1,545	3,538	11.6	11.9	11.5	13.91
South .....	269	161	108	20,609	10,857	9,751	13.1	14.8	11.1	7.27
South Atlantic .....	126	79	47	9,162	5,498	3,664	13.8	14.4	12.9	10.57
East South Central .....	60	36	24	4,318	2,003	2,315	13.9	17.9	10.4	13.03
West South Central .....	83	46	37	7,128	3,356	3,773	11.6	13.7	9.8	11.49
West .....	145	74	71	9,747	4,793	4,954	14.9	15.5	14.4	8.40
Mountain .....	47	21	26	2,905	1,256	1,649	16.2	16.9	15.7	17.27
Pacific .....	98	53	45	6,842	3,537	3,305	14.3	14.9	13.7	10.45

See footnotes at end of table.

**Table 3.23. Electricity Consumption and Conditional Energy Intensity for Buildings Cooled with Electricity, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	All Buildings Cooled with Electricity	Buildings Cooled with Electricity		All Buildings Cooled with Electricity	Buildings Cooled with Electricity		All Buildings Cooled with Electricity	Buildings Cooled with Electricity		
		Heated with Electricity	Not Heated with Electricity		Heated with Electricity	Not Heated with Electricity		Heated with Electricity	Not Heated with Electricity	
		1.0	1.3		1.2	0.9		1.3	1.0	
RSE Column Factor:	1.0	1.3	1.2	0.9	1.3	1.0	0.7	1.0	0.8	
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and --										
More than 2,000 CDD and --										
More than 7,000 HDD .....	44	13	30	3,969	1,067	2,902	11.0	12.6	10.4	16.15
5,500-7,000 HDD .....	162	60	102	14,369	4,918	9,451	11.3	12.2	10.8	10.99
4,000-5,499 HDD .....	152	78	74	12,854	5,458	7,396	11.8	14.3	10.0	9.07
Fewer than 4,000 HDD .....	178	91	86	12,441	5,590	6,852	14.3	16.4	12.6	11.62
More than 2,000 CDD and --										
Fewer than 4,000 HDD .....	146	97	49	10,994	6,764	4,230	13.3	14.3	11.6	11.25
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	682	340	342	54,628	23,798	30,830	12.5	14.3	11.1	4.59
Natural Gas .....	478	183	294	39,546	13,081	26,466	12.1	14.0	11.1	5.60
Fuel Oil .....	179	84	95	11,474	4,558	6,916	15.6	18.4	13.7	9.96
District Heat .....	55	17	38	3,405	875	2,529	16.3	19.9	15.0	22.22
District Chilled Water .....	13	7	6	842	343	499	15.6	21.4	11.7	23.09
Propane .....	35	23	12	2,789	1,463	1,326	12.6	15.8	9.0	16.63
Any Other .....	9	5	4	1,107	642	466	8.2	7.8	8.9	28.54
<b>Energy End Uses (more than one may apply)</b>										
Heated Buildings .....	670	340	330	53,663	23,798	29,865	12.5	14.3	11.1	4.60
Buildings with A/C .....	682	340	342	54,628	23,798	30,830	12.5	14.3	11.1	4.59
Buildings with Water Heating .....	661	330	331	51,534	22,533	29,001	12.8	14.6	11.4	4.70
Buildings with Cooking .....	321	173	148	20,974	9,818	11,155	15.3	17.6	13.3	6.42
Buildings with Manufacturing .....	31	12	19	2,808	1,094	1,714	11.2	11.4	11.1	18.55
<b>Workers (main shift)</b>										
Less than 5 .....	90	54	36	10,315	4,538	5,777	8.7	11.8	6.2	9.04
5 to 9 .....	61	27	34	6,065	2,665	3,400	10.1	10.2	10.1	7.90
10 to 19 .....	73	34	39	6,760	2,800	3,961	10.8	12.3	9.8	10.00
20 to 49 .....	115	54	61	9,758	3,735	6,024	11.8	14.4	10.1	8.80
50 to 99 .....	83	41	41	6,855	2,896	3,959	12.0	14.2	10.5	12.17
100 or More .....	260	130	130	14,874	7,164	7,710	17.5	18.1	16.8	8.85
<b>Weekly Operating Hours</b>										
39 or Fewer .....	19	7	12	4,401	1,238	3,163	4.4	5.9	3.8	12.13
40 to 48 .....	121	63	59	12,148	5,124	7,024	10.0	12.2	8.4	8.46
49 to 60 .....	113	55	59	11,675	4,779	6,896	9.7	11.4	8.5	8.56
61 to 84 .....	132	54	78	10,906	4,872	6,034	12.1	11.1	12.9	10.34
85 to 167 .....	119	62	57	7,292	3,347	3,944	16.4	18.5	14.5	9.33
Open Continuously .....	177	100	77	8,207	4,438	3,770	21.6	22.5	20.5	9.54
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	545	286	259	42,528	19,833	22,695	12.8	14.4	11.4	5.22
Owner Occupied .....	419	212	207	31,133	13,611	17,522	13.5	15.6	11.8	5.71
Single Establishment .....	329	162	167	23,385	9,806	13,579	14.1	16.5	12.3	6.49
Multiple Establishment .....	90	50	40	7,749	3,806	3,943	11.6	13.1	10.2	12.13
Nonowner Occupied .....	123	73	49	10,720	5,991	4,729	11.4	12.2	10.4	9.58
Single Establishment .....	61	37	24	4,658	2,884	1,773	13.1	12.8	13.6	17.79
Multiple Establishment .....	62	36	25	6,063	3,107	2,956	10.2	11.7	8.5	11.26
Vacant .....	Q	Q	Q	674	Q	Q	4.4	Q	Q	43.25
Government Owned .....	137	54	83	12,100	3,965	8,135	11.3	13.6	10.2	8.83

See footnotes at end of table.

**Table 3.23. Electricity Consumption and Conditional Energy Intensity for Buildings Cooled with Electricity, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	All Buildings Cooled with Electricity	Buildings Cooled with Electricity		All Buildings Cooled with Electricity	Buildings Cooled with Electricity		All Buildings Cooled with Electricity	Buildings Cooled with Electricity		
		Heated with Electricity	Not Heated with Electricity		Heated with Electricity	Not Heated with Electricity		Heated with Electricity	Not Heated with Electricity	
		1.0	1.3		1.2	0.9		1.3	1.0	
RSE Column Factor:	1.0	1.3	1.2	0.9	1.3	1.0	0.7	1.0	0.8	RSE Row Factor
<b>Predominant Exterior Wall Material</b>										
Masonry .....	484	234	250	40,311	16,780	23,530	12.0	14.0	10.6	4.95
Siding or Shingles .....	33	16	16	2,552	1,145	1,407	12.8	14.1	11.7	10.41
Metal Panels .....	51	31	20	4,727	2,449	2,279	10.8	12.7	8.8	14.08
Concrete Panels .....	59	32	27	4,237	2,122	2,114	14.0	15.1	12.8	14.07
Window Glass .....	39	21	18	1,893	974	919	20.8	21.5	20.0	21.37
Other .....	16	6	10	908	328	580	17.1	17.0	17.2	24.58
<b>Predominant Roof Material</b>										
Built-Up .....	340	171	169	25,503	11,644	13,858	13.3	14.7	12.2	6.13
Shingles (Not Wood) .....	83	36	47	8,420	2,925	5,494	9.9	12.2	8.6	11.31
Metal Surfacing .....	58	29	29	5,886	2,756	3,130	9.9	10.7	9.2	11.86
Synthetic or Rubber .....	147	74	73	10,130	4,215	5,915	14.5	17.5	12.4	7.18
Other .....	53	31	23	4,690	2,257	2,433	11.4	13.6	9.3	15.86
<b>Space-Heating Energy Source</b>										
Electricity .....	340	340	Q	23,798	23,798	Q	14.3	14.3	Q	5.68
Electricity Main .....	227	227	Q	14,385	14,385	Q	15.8	15.8	Q	6.24
Electricity Secondary .....	114	114	Q	9,413	9,413	Q	12.1	12.1	Q	9.57
Other Excluding Electricity .....	330	Q	330	29,865	Q	29,865	11.1	Q	11.1	5.00
Building Not Heated .....	11	Q	11	965	Q	965	11.7	Q	11.7	29.37
<b>Main Space-Heating Energy Source</b>										
Electricity .....	227	227	Q	14,385	14,385	Q	15.8	15.8	Q	6.24
Natural Gas .....	353	88	265	31,146	7,221	23,924	11.3	12.2	11.1	6.82
Fuel Oil .....	27	6	21	3,454	727	2,728	7.9	8.5	7.8	13.43
District Heat .....	51	16	36	3,184	796	2,387	16.1	19.7	14.9	16.86
Propane .....	7	2	6	786	249	537	9.2	6.6	10.4	22.98
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Main Heating</b>										
Electricity Only .....	20	5	15	2,249	471	1,779	8.9	9.9	8.6	14.31
Natural Gas Only .....	21	14	7	1,953	1,308	646	11.0	10.8	11.2	19.62
Fuel Oil Only .....	72	24	48	4,866	1,368	3,498	14.8	17.6	13.7	14.37
Propane Only .....	19	6	13	1,799	520	1,279	10.8	12.3	10.2	18.66
Any Other Single Energy Source .....	3	Q	Q	350	Q	286	9.3	Q	9.2	29.25
More than One Energy Source .....	8	Q	6	667	Q	549	12.4	Q	10.9	25.10
No Replacement Energy Source .....	526	288	238	41,778	19,949	21,830	12.6	14.4	10.9	5.21
Building Not Heated .....	11	Q	11	965	Q	965	11.7	Q	11.7	29.37
<b>Water-Heating Energy Source</b>										
Electricity .....	303	209	94	23,274	14,620	8,654	13.0	14.3	10.9	6.96
Other Excluding Electricity .....	357	121	237	28,260	7,913	20,347	12.6	15.2	11.6	6.00
Water Heating Not Performed .....	21	10	11	3,094	1,265	1,829	6.8	8.1	6.0	11.74
<b>Cooking Energy Source</b>										
Electricity .....	188	117	71	11,353	6,542	4,811	16.5	17.9	14.7	7.88
Other Excluding Electricity .....	133	55	78	9,621	3,276	6,344	13.9	16.9	12.3	9.20
Cooking Not Performed .....	361	168	193	33,654	13,979	19,675	10.7	12.0	9.8	5.66

See footnotes at end of table.

**Table 3.23. Electricity Consumption and Conditional Energy Intensity for Buildings Cooled with Electricity, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	All Buildings Cooled with Electricity	Buildings Cooled with Electricity		All Buildings Cooled with Electricity	Buildings Cooled with Electricity		All Buildings Cooled with Electricity	Buildings Cooled with Electricity		
		Heated with Electricity	Not Heated with Electricity		Heated with Electricity	Not Heated with Electricity		Heated with Electricity	Not Heated with Electricity	
RSE Column Factor:	1.0	1.3	1.2	0.9	1.3	1.0	0.7	1.0	0.8	
<b>Percent of Floorspace Heated</b>										
Not Heated .....	11	Q	11	965	Q	965	11.7	Q	11.7	29.37
1 to 50 .....	66	43	24	9,697	5,408	4,290	6.8	7.9	5.5	13.12
51 to 99 .....	119	69	50	9,165	4,411	4,753	12.9	15.6	10.5	9.07
100 .....	486	229	257	34,800	13,978	20,822	14.0	16.4	12.3	5.19
<b>Percent of Floorspace Cooled</b>										
Not Cooled .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50 .....	134	53	81	21,068	8,224	12,843	6.4	6.4	6.3	6.82
51 to 99 .....	213	105	108	13,370	5,804	7,566	15.9	18.1	14.3	7.09
100 .....	334	182	152	20,191	9,769	10,421	16.6	18.7	14.6	6.24
<b>Percent Lit when Open</b>										
Not Lit .....	Q	Q	Q	609	Q	Q	4.6	Q	Q	43.77
1 to 50 .....	35	14	21	7,053	2,230	4,823	4.9	6.4	4.3	11.89
51 to 99 .....	150	85	65	12,684	6,805	5,879	11.8	12.4	11.1	7.42
100 .....	494	240	254	34,283	14,594	19,689	14.4	16.5	12.9	5.34
<b>Percent Lit when Closed</b>										
Not Lit .....	311	162	149	24,694	10,968	13,725	12.6	14.8	10.8	6.14
1 to 50 .....	345	167	177	28,308	12,141	16,167	12.2	13.8	11.0	6.01
51 to 99 .....	16	6	10	980	439	541	16.6	14.6	18.3	21.25
100 .....	10	4	6	646	250	397	14.9	16.3	13.9	24.21
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	126	126	Q	8,143	8,135	Q	15.5	15.5	Q	8.12
Furnaces .....	143	58	85	14,814	5,542	9,271	9.7	10.5	9.2	8.14
Individual Space Heaters .....	228	151	78	19,131	11,458	7,673	11.9	13.1	10.1	7.08
District Heat .....	56	17	38	3,406	861	2,545	16.3	20.2	15.0	16.28
Boilers .....	232	90	143	18,680	6,314	12,366	12.4	14.2	11.5	6.88
Packaged Heating Units .....	208	118	91	15,480	8,268	7,212	13.5	14.2	12.6	8.06
Other .....	23	12	11	771	454	317	30.4	26.9	35.4	21.29
<b>Cooling Equipment (more than one may apply)</b>										
Residential-Type Central A/C .....	92	40	52	8,761	3,142	5,619	10.5	12.7	9.2	9.46
Heat Pumps .....	128	121	6	8,388	7,854	534	15.2	15.4	12.2	11.10
Individual A/C .....	167	91	75	17,734	7,932	9,802	9.4	11.5	7.7	8.71
District Chilled Water .....	13	7	6	842	343	500	15.6	21.4	11.7	23.09
Central Chillers .....	217	97	120	12,500	5,338	7,162	17.4	18.3	16.7	8.51
Packaged A/C Units .....	365	174	192	26,928	10,837	16,090	13.6	16.0	11.9	6.03
Swamp Coolers .....	32	14	17	2,063	892	1,170	15.3	16.1	14.7	20.22
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Lighting Equipment (more than one may apply)</b>										
Incandescent .....	427	218	208	32,539	14,346	18,193	13.1	15.2	11.5	5.25
Standard Fluorescent .....	668	334	334	53,195	23,320	29,876	12.6	14.3	11.2	4.61
Compact Fluorescent .....	128	78	49	7,545	4,000	3,545	16.9	19.6	13.9	10.39
High-Intensity Discharge .....	193	100	93	15,194	7,339	7,855	12.7	13.6	11.9	8.16
Other .....	17	10	7	1,419	790	628	12.0	12.9	10.8	24.74

See footnotes at end of table.

**Table 3.23. Electricity Consumption and Conditional Energy Intensity for Buildings Cooled with Electricity, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	All Buildings Cooled with Electricity	Buildings Cooled with Electricity		All Buildings Cooled with Electricity	Buildings Cooled with Electricity		All Buildings Cooled with Electricity	Buildings Cooled with Electricity		
		Heated with Electricity	Not Heated with Electricity		Heated with Electricity	Not Heated with Electricity		Heated with Electricity	Not Heated with Electricity	
RSE Column Factor:	1.0	1.3	1.2	0.9	1.3	1.0	0.7	1.0	0.8	
<b>Annual Consumption (kilowatthours)</b>										
10,000 or Less .....	3	1	2	1,888	546	1,342	1.5	1.7	1.4	9.61
10,001 to 50,000 .....	34	13	21	8,608	2,968	5,639	4.0	4.4	3.8	7.02
50,001 to 100,000 .....	42	18	25	6,098	2,580	3,518	7.0	6.8	7.1	8.51
100,001 to 500,000 .....	160	77	83	13,961	5,709	8,253	11.5	13.5	10.1	5.51
500,001 to 1,000,000 .....	71	36	35	5,511	2,278	3,233	12.9	15.6	10.9	9.83
1,000,001 to 5,000,000 .....	204	96	109	11,284	5,261	6,023	18.1	18.2	18.1	8.47
Over 5,000,000 .....	166	100	66	7,277	4,455	2,821	22.9	22.5	23.4	11.94
<b>Peak Electricity Demand (kilowatts)</b>										
10 or Less .....	4	1	2	1,071	333	738	3.3	3.9	3.1	15.09
11 to 25 .....	18	7	11	3,425	1,143	2,282	5.3	5.8	5.0	12.90
26 to 50 .....	41	19	22	4,291	1,727	2,563	9.6	11.1	8.6	10.12
51 to 100 .....	68	30	38	5,981	2,501	3,480	11.5	12.0	11.0	8.73
101 to 250 .....	93	46	47	7,197	2,907	4,290	12.9	15.7	11.0	9.03
251 to 1,000 .....	178	85	94	10,936	4,974	5,962	16.3	17.0	15.7	10.40
Over 1,000 .....	160	90	70	7,412	4,272	3,141	21.5	21.0	22.2	12.83
<b>Season of Peak Electricity Demand</b>										
Summer .....	377	164	213	25,933	10,167	15,766	14.5	16.2	13.5	7.14
Winter .....	161	105	56	12,437	6,997	5,439	12.9	15.0	10.3	9.67
Summer and Winter .....	24	8	16	1,943	692	1,251	12.4	11.6	12.9	20.31
<b>Building Generates Electricity</b>										
Yes .....	176	93	83	9,374	4,768	4,605	18.8	19.6	18.0	9.22
No .....	506	247	259	45,254	19,029	26,225	11.2	13.0	9.9	4.96

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.24. Electricity Consumption and Conditional Energy Intensity for Buildings Heated with Electricity, 1992**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	All Buildings Heated with Electricity	Buildings Heated with Electricity		All Buildings Heated with Electricity	Buildings Heated with Electricity		All Buildings Heated with Electricity	Buildings Heated with Electricity		
		Main Heating	Secondary Heating		Main Heating	Secondary Heating		Main Heating	Secondary Heating	
	RSE Column Factor:	0.9	1.1	1.5	0.9	1.0	1.3	0.7	0.8	
<b>All Buildings</b> .....	352	234	118	25,636	15,502	10,134	13.7	15.1	11.7	6.69
<b>Building Floorspace (square feet)</b>										
1,001 to 5,000 .....	45	40	6	2,162	1,684	478	20.9	23.5	11.7	10.56
5,001 to 10,000 .....	32	27	5	2,427	1,719	708	13.2	15.6	7.6	13.38
10,001 to 25,000 .....	44	31	13	3,648	2,411	1,237	12.0	12.9	10.2	11.53
25,001 to 50,000 .....	49	36	13	3,599	2,245	1,354	13.7	16.0	9.8	14.01
50,001 to 100,000 .....	37	24	13	2,825	1,788	1,036	13.0	13.5	12.2	14.70
100,001 to 200,000 .....	45	29	16	3,260	1,803	1,458	13.7	16.1	10.8	18.57
200,001 to 500,000 .....	42	18	24	3,198	1,428	1,770	13.3	12.9	13.6	17.91
Over 500,000 .....	58	30	29	4,517	2,424	2,093	12.9	12.2	13.8	22.35
<b>Principal Building Activity</b>										
Education .....	25	12	13	2,159	998	1,161	11.4	11.6	11.3	17.61
Food Sales .....	14	14	Q	285	282	Q	49.4	49.7	Q	21.57
Food Service .....	15	12	Q	407	307	Q	37.7	39.1	Q	21.19
Health Care .....	15	3	12	667	198	469	22.9	16.5	25.6	18.95
Lodging .....	32	25	Q	1,516	1,125	392	21.3	22.0	19.1	22.64
Mercantile and Service .....	66	40	26	5,122	2,858	2,264	12.9	14.1	11.5	13.39
Office .....	105	75	30	5,445	3,746	1,698	19.3	20.0	17.7	11.01
Parking Garage .....	4	4	Q	730	706	Q	Q	Q	Q	42.91
Public Assembly .....	28	22	6	2,267	1,637	630	12.5	13.7	9.2	18.68
Public Order and Safety .....	2	Q	Q	184	Q	Q	11.2	Q	Q	27.71
Religious Worship .....	4	3	1	1,361	602	759	3.0	4.3	2.0	16.70
Warehouse and Storage .....	29	16	12	4,304	2,121	2,182	6.7	7.7	5.7	16.99
Other .....	7	Q	Q	267	Q	Q	28.0	Q	Q	27.90
Vacant .....	5	3	Q	924	683	Q	5.2	5.1	Q	24.67
<b>Year Constructed</b>										
1899 or Before .....	4	Q	1	419	Q	173	8.7	Q	6.7	24.77
1900 to 1919 .....	6	Q	3	846	Q	595	6.9	Q	4.8	26.44
1920 to 1945 .....	23	7	15	2,197	790	1,407	10.3	9.5	10.7	25.74
1946 to 1959 .....	33	20	14	3,116	1,493	1,624	10.6	13.1	8.4	16.53
1960 to 1969 .....	52	25	27	3,880	1,893	1,987	13.4	13.4	13.4	13.42
1970 to 1979 .....	95	64	31	6,191	3,800	2,391	15.4	16.8	13.1	10.98
1980 to 1989 .....	124	101	23	7,958	6,230	1,728	15.6	16.2	13.4	11.12
1990 to 1992 .....	16	11	4	1,030	800	230	15.3	14.3	18.8	19.43
<b>Census Region and Division</b>										
Northeast .....	56	25	31	4,505	1,768	2,737	12.4	14.0	11.4	19.83
New England .....	14	8	6	1,071	568	503	13.0	13.5	12.4	26.07
Middle Atlantic .....	42	17	25	3,434	1,200	2,234	12.2	14.2	11.2	25.92
Midwest .....	54	26	28	4,673	2,169	2,504	11.6	12.1	11.2	12.94
East North Central .....	36	16	19	3,031	1,369	1,662	11.7	11.9	11.6	18.96
West North Central .....	19	10	9	1,642	800	841	11.3	12.4	10.3	18.46
South .....	164	131	33	11,185	8,529	2,657	14.7	15.4	12.5	10.12
South Atlantic .....	81	63	18	5,657	4,256	1,402	14.2	14.8	12.6	14.58
East South Central .....	36	28	9	2,084	1,488	597	17.5	18.8	14.2	15.28
West South Central .....	47	40	7	3,444	2,786	658	13.7	14.4	10.7	14.00
West .....	78	52	26	5,273	3,036	2,237	14.8	17.2	11.5	11.54
Mountain .....	22	18	5	1,401	996	405	16.0	18.0	11.2	24.48
Pacific .....	56	34	21	3,872	2,040	1,832	14.4	16.9	11.6	12.54

See footnotes at end of table.

**Table 3.24. Electricity Consumption and Conditional Energy Intensity for Buildings Heated with Electricity, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	All Buildings Heated with Electricity	Buildings Heated with Electricity		All Buildings Heated with Electricity	Buildings Heated with Electricity		All Buildings Heated with Electricity	Buildings Heated with Electricity		
		Main Heating	Secondary Heating		Main Heating	Secondary Heating		Main Heating	Secondary Heating	
	RSE Column Factor:	0.9	1.1	1.5	0.9	1.0	1.3	0.7	0.8	
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and --										
More than 7,000 HDD .....	14	10	5	1,268	641	627	11.4	15.1	7.5	21.06
5,500-7,000 HDD .....	64	30	34	5,460	2,305	3,154	11.7	12.9	10.8	16.93
4,000-5,499 HDD .....	81	49	32	6,098	2,955	3,143	13.3	16.5	10.2	13.84
Fewer than 4,000 HDD .....	95	62	34	5,940	3,656	2,284	16.1	16.9	14.7	12.99
More than 2,000 CDD and --										
Fewer than 4,000 HDD .....	98	84	14	6,871	5,945	926	14.2	14.2	14.7	15.18
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	352	234	118	25,636	15,502	10,134	13.7	15.1	11.7	6.69
Natural Gas .....	189	87	103	13,901	5,245	8,655	13.6	16.5	11.9	9.03
Fuel Oil .....	88	48	40	4,872	2,482	2,390	18.0	19.2	16.7	15.10
District Heat .....	20	Q	18	985	Q	908	20.0	Q	19.7	18.51
District Chilled Water .....	10	3	7	476	136	340	21.3	21.3	21.3	25.46
Propane .....	24	13	11	1,550	791	759	15.4	15.9	14.9	23.33
Any Other .....	5	Q	3	753	Q	571	7.1	Q	4.6	32.86
<b>Energy End Uses (more than one may apply)</b>										
Heated Buildings .....	352	234	118	25,636	15,502	10,134	13.7	15.1	11.7	6.69
Buildings with A/C .....	345	229	116	24,123	14,511	9,612	14.3	15.8	12.1	6.82
Buildings with Water Heating .....	341	225	116	23,996	14,200	9,796	14.2	15.9	11.8	6.93
Buildings with Cooking .....	176	107	69	10,147	5,738	4,409	17.4	18.6	15.7	10.01
Buildings with Manufacturing .....	13	7	6	1,178	425	753	11.1	15.6	8.5	27.29
<b>Workers (main shift)</b>										
Less than 5 .....	57	52	5	5,498	4,410	1,088	10.4	11.8	5.0	11.93
5 to 9 .....	29	22	7	2,930	1,869	1,061	9.9	11.7	6.7	11.32
10 to 19 .....	35	26	9	2,907	1,920	987	12.1	13.8	8.7	13.91
20 to 49 .....	55	39	16	3,833	2,151	1,683	14.4	18.3	9.5	11.19
50 to 99 .....	42	26	15	3,017	1,569	1,447	13.8	16.9	10.5	20.02
100 or More .....	134	68	66	7,452	3,584	3,868	18.0	19.1	17.0	13.11
<b>Weekly Operating Hours</b>										
39 or Fewer .....	8	6	2	1,641	1,006	635	4.9	5.9	3.3	14.61
40 to 48 .....	65	44	20	5,464	3,426	2,038	11.8	12.9	10.0	13.07
49 to 60 .....	58	39	18	5,180	3,002	2,178	11.1	13.0	8.4	11.72
61 to 84 .....	57	39	18	5,114	3,065	2,049	11.1	12.7	8.7	13.67
85 to 167 .....	63	37	26	3,476	1,649	1,827	18.3	22.4	14.5	14.11
Open Continuously .....	102	69	33	4,761	3,354	1,408	21.4	20.6	23.4	11.43
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	295	208	87	21,311	13,424	7,887	13.8	15.5	11.0	7.39
Owner Occupied .....	218	150	68	14,691	8,825	5,867	14.9	17.1	11.5	7.97
Single Establishment .....	167	121	47	10,723	6,596	4,127	15.6	18.3	11.3	8.68
Multiple Establishment .....	51	30	21	3,968	2,228	1,740	12.8	13.4	12.0	15.88
Nonowner Occupied .....	75	56	19	6,252	4,317	1,935	12.0	13.0	9.8	14.59
Single Establishment .....	38	31	7	3,076	2,213	863	12.4	14.2	Q	22.34
Multiple Establishment .....	37	25	12	3,176	2,104	1,072	11.6	11.8	11.2	17.04
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned .....	58	26	31	4,325	2,078	2,247	13.3	12.6	13.9	14.17

See footnotes at end of table.

**Table 3.24. Electricity Consumption and Conditional Energy Intensity for Buildings Heated with Electricity, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	All Buildings Heated with Electricity	Buildings Heated with Electricity		All Buildings Heated with Electricity	Buildings Heated with Electricity		All Buildings Heated with Electricity	Buildings Heated with Electricity		
		Main Heating	Secondary Heating		Main Heating	Secondary Heating		Main Heating	Secondary Heating	
RSE Column Factor:	0.9	1.1	1.5	0.9	1.0	1.3	0.7	0.8	1.0	
<b>Predominant Exterior Wall Material</b>										
Masonry .....	243	163	79	18,048	10,902	7,147	13.4	15.0	11.1	7.19
Siding or Shingles .....	17	12	5	1,366	822	544	12.4	15.1	8.4	13.61
Metal Panels .....	33	22	11	2,703	1,657	1,045	12.3	13.2	10.8	19.60
Concrete Panels .....	33	19	14	2,212	1,219	993	15.0	15.3	14.6	19.76
Window Glass .....	21	13	Q	979	636	343	21.5	21.1	22.1	24.44
Other .....	6	5	Q	328	266	Q	17.0	17.9	Q	36.57
<b>Predominant Roof Material</b>										
Built-Up .....	175	117	58	12,420	7,599	4,821	14.1	15.4	12.1	9.52
Shingles (Not Wood) .....	38	29	8	3,227	2,100	1,127	11.7	14.0	7.3	11.69
Metal Surfacing .....	32	26	6	3,116	2,169	947	10.1	11.8	6.4	15.77
Synthetic or Rubber .....	76	36	40	4,365	1,837	2,528	17.4	19.7	15.7	10.77
Other .....	32	26	6	2,508	1,797	711	12.8	14.6	8.3	21.23
<b>Space-Heating Energy Source</b>										
Electricity .....	352	234	118	25,636	15,502	10,134	13.7	15.1	11.7	6.69
Electricity Main .....	234	234	Q	15,502	15,502	Q	15.1	15.1	Q	6.79
Electricity Secondary .....	118	Q	118	10,134	Q	10,134	11.7	Q	11.7	8.90
Other Excluding Electricity .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Main Space-Heating Energy Source</b>										
Electricity .....	234	234	Q	15,502	15,502	Q	15.1	15.1	Q	6.79
Natural Gas .....	90	Q	90	7,660	Q	7,660	11.7	Q	11.7	11.73
Fuel Oil .....	7	Q	7	839	Q	839	8.3	Q	8.3	14.89
District Heat .....	18	Q	18	895	Q	895	19.8	Q	19.8	14.64
Propane .....	2	Q	2	279	Q	279	6.2	Q	6.2	24.17
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Main Heating</b>										
Electricity Only .....	5	Q	5	505	Q	505	9.5	Q	9.5	19.06
Natural Gas Only .....	16	13	2	1,410	952	458	11.2	14.0	Q	20.73
Fuel Oil Only .....	25	3	22	1,425	193	1,232	17.3	15.3	17.7	24.53
Propane Only .....	7	4	3	596	259	337	11.2	16.0	7.5	25.41
Any Other Single Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
No Replacement Energy Source .....	297	213	84	21,471	14,021	7,450	13.9	15.2	11.3	7.31
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Energy Source</b>										
Electricity .....	340	227	114	23,798	14,385	9,413	14.3	15.8	12.1	6.93
Other Excluding Electricity .....	5	2	Q	325	126	Q	15.5	17.4	Q	31.65
A/C Not Performed .....	7	6	2	1,513	991	522	4.8	5.6	3.2	20.19
<b>Water-Heating Energy Source</b>										
Electricity .....	216	172	44	15,574	11,365	4,209	13.9	15.1	10.4	9.33
Other Excluding Electricity .....	125	53	72	8,423	2,835	5,587	14.8	18.7	12.9	10.12
Water Heating Not Performed .....	11	9	2	1,640	1,302	338	7.0	7.1	6.3	16.20
<b>Cooking Energy Source</b>										
Electricity .....	118	78	40	6,707	4,114	2,594	17.7	19.0	15.5	12.50
Other Excluding Electricity .....	58	29	29	3,440	1,625	1,815	16.8	17.7	16.0	13.63
Cooking Not Performed .....	176	127	49	15,489	9,764	5,725	11.4	13.0	8.5	7.95

See footnotes at end of table.



**Table 3.24. Electricity Consumption and Conditional Energy Intensity for Buildings Heated with Electricity, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	All Buildings Heated with Electricity	Buildings Heated with Electricity		All Buildings Heated with Electricity	Buildings Heated with Electricity		All Buildings Heated with Electricity	Buildings Heated with Electricity		
		Main Heating	Secondary Heating		Main Heating	Secondary Heating		Main Heating	Secondary Heating	
	RSE Column Factor:	0.9	1.1	1.5	0.9	1.0	1.3	0.7	0.8	
<b>Percent of Floorspace Heated</b>										
Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50 .....	45	31	13	6,084	4,116	1,968	7.3	7.6	6.8	15.78
51 to 99 .....	70	42	28	4,569	2,406	2,163	15.4	17.6	12.9	12.81
100 .....	238	161	77	14,983	8,980	6,003	15.9	17.9	12.8	7.74
<b>Percent of Floorspace Cooled</b>										
Not Cooled .....	7	6	2	1,513	991	522	4.8	5.6	3.2	20.19
1 to 50 .....	54	29	25	8,320	4,066	4,255	6.4	7.1	5.8	11.12
51 to 99 .....	106	58	49	5,903	2,961	2,942	18.0	19.6	16.5	8.86
100 .....	185	142	43	9,899	7,484	2,415	18.7	18.9	18.0	10.03
<b>Percent Lit when Open</b>										
Not Lit .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50 .....	15	12	3	2,577	1,556	1,021	5.9	7.8	3.0	15.86
51 to 99 .....	88	59	29	7,106	4,441	2,665	12.4	13.3	10.7	10.67
100 .....	248	162	86	15,627	9,271	6,356	15.9	17.5	13.6	8.12
<b>Percent Lit when Closed</b>										
Not Lit .....	170	117	53	12,197	7,958	4,239	13.9	14.7	12.6	8.92
1 to 50 .....	172	109	62	12,726	7,061	5,665	13.5	15.5	11.0	9.50
51 to 99 .....	6	5	Q	441	317	Q	14.6	15.9	Q	24.90
100 .....	4	Q	Q	272	Q	Q	15.8	Q	Q	32.68
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	127	82	45	8,243	4,723	3,520	15.4	17.3	12.9	10.33
Furnaces .....	61	32	30	6,018	2,201	3,817	10.2	14.5	7.8	11.59
Individual Space Heaters .....	160	93	67	12,980	6,528	6,452	12.3	14.2	10.4	8.53
District Heat .....	20	Q	18	970	Q	901	20.2	Q	19.8	14.46
Boilers .....	91	35	56	6,583	2,371	4,211	13.9	14.7	13.4	13.26
Packaged Heating Units .....	119	74	46	8,375	4,591	3,784	14.2	16.0	12.1	11.68
Other .....	12	10	Q	491	363	Q	25.2	28.6	Q	23.71
<b>Cooling Equipment (more than one may apply)</b>										
Residential-Type Central A/C .....	41	19	22	3,203	1,270	1,933	12.9	15.3	11.3	15.32
Heat Pumps .....	121	77	44	7,854	4,498	3,356	15.4	17.2	13.0	10.71
Individual A/C .....	93	51	42	8,061	3,619	4,442	11.5	14.1	9.5	11.26
District Chilled Water .....	10	3	7	476	136	340	21.3	21.3	21.3	25.46
Central Chillers .....	98	54	45	5,382	3,188	2,194	18.2	16.8	20.3	12.48
Packaged A/C Units .....	177	106	71	11,068	6,154	4,914	16.0	17.2	14.4	9.09
Swamp Coolers .....	14	10	Q	892	649	Q	16.1	15.0	Q	34.29
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Lighting Equipment (more than one may apply)</b>										
Incandescent .....	226	137	88	15,426	8,391	7,035	14.6	16.4	12.5	8.20
Standard Fluorescent .....	345	228	117	24,794	14,788	10,006	13.9	15.4	11.7	6.76
Compact Fluorescent .....	81	40	41	4,216	2,116	2,100	19.1	18.8	19.4	14.16
High-Intensity Discharge .....	103	55	48	7,708	4,027	3,680	13.3	13.5	13.1	12.40
Other .....	11	5	Q	863	393	470	12.9	12.7	Q	30.62

See footnotes at end of table.

**Table 3.24. Electricity Consumption and Conditional Energy Intensity for Buildings Heated with Electricity, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	All Buildings Heated with Electricity	Buildings Heated with Electricity		All Buildings Heated with Electricity	Buildings Heated with Electricity		All Buildings Heated with Electricity	Buildings Heated with Electricity		
		Main Heating	Secondary Heating		Main Heating	Secondary Heating		Main Heating	Secondary Heating	
	RSE Column Factor:	0.9	1.1	1.5	0.9	1.0	1.3	0.7	0.8	
<b>Annual Consumption (kilowatthours)</b>										
10,000 or Less .....	1	1	(*)	809	540	269	1.5	1.5	1.5	13.21
10,001 to 50,000 .....	15	10	4	3,440	2,101	1,339	4.2	5.0	3.1	9.13
50,001 to 100,000 .....	19	14	5	2,750	1,892	858	6.8	7.6	5.3	11.77
100,001 to 500,000 .....	80	63	17	6,028	3,885	2,144	13.3	16.2	8.1	8.04
500,001 to 1,000,000 .....	37	25	12	2,528	1,481	1,047	14.5	16.8	11.2	15.07
1,000,001 to 5,000,000 .....	99	69	30	5,545	3,216	2,329	17.9	21.6	12.8	14.18
Over 5,000,000 .....	102	52	50	4,536	2,387	2,149	22.5	21.7	23.3	14.61
<b>Peak Electricity Demand (kilowatts)</b>										
10 or Less .....	2	1	Q	420	295	Q	3.6	3.4	Q	20.17
11 to 25 .....	7	5	2	1,294	782	512	5.7	6.4	4.7	18.85
26 to 50 .....	19	15	5	1,776	984	792	10.9	14.9	6.0	14.79
51 to 100 .....	31	25	7	2,658	1,789	868	11.8	13.8	7.5	14.38
101 to 250 .....	48	34	15	3,269	1,936	1,333	14.8	17.4	10.9	14.50
251 to 1,000 .....	87	63	24	5,142	2,910	2,233	16.9	21.6	10.8	15.92
Over 1,000 .....	92	54	38	4,366	2,850	1,515	21.0	18.9	24.9	16.01
<b>Season of Peak Electricity Demand</b>										
Summer .....	168	107	61	10,446	6,232	4,214	16.1	17.2	14.4	10.64
Winter .....	110	84	26	7,743	5,026	2,718	14.2	16.8	9.5	11.35
Summer and Winter .....	9	4	Q	735	288	Q	11.6	14.5	Q	31.55
<b>Building Generates Electricity</b>										
Yes .....	97	57	40	5,070	2,907	2,163	19.1	19.7	18.4	13.47
No .....	255	177	78	20,566	12,595	7,972	12.4	14.1	9.8	6.82

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

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.25. Season of Peak Electricity Demand, Number of Buildings and Floorspace, 1992**

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	Buildings Not Demand-Metered	Demand-Metered Buildings	Season of Peak Electricity Demand			Buildings Not Demand-Metered	Demand-Metered Buildings	Season of Peak Electricity Demand			
			Summer	Winter	Summer and Winter			Summer	Winter	Summer and Winter	
RSE Column Factor:	0.8	0.6	0.8	1.1	1.8	1.0	0.7	0.9	1.1	1.8	
<b>All Buildings</b> .....	2,236	2,375	1,342	854	179	19,113	47,412	29,289	15,679	2,444	7.25
<b>Building Floorspace (square feet)</b>											
1,001 to 5,000 .....	1,460	1,075	584	393	98	3,976	3,008	1,647	1,082	278	9.85
5,001 to 10,000 .....	454	500	282	178	40	3,336	3,720	2,116	1,300	304	10.26
10,001 to 25,000 .....	218	411	238	152	21	3,418	6,679	3,899	2,465	314	11.01
25,001 to 50,000 .....	65	210	124	77	Q	2,360	7,496	4,445	2,726	Q	13.79
50,001 to 100,000 .....	20	94	56	29	8	1,343	6,583	3,890	2,148	545	16.08
100,001 to 200,000 .....	13	58	38	17	Q	1,711	7,948	5,196	2,374	Q	17.08
200,001 to 500,000 .....	5	21	14	6	Q	1,520	6,157	4,305	1,707	Q	21.04
Over 500,000 .....	2	8	5	2	Q	1,449	5,822	3,790	1,877	Q	31.58
<b>Principal Building Activity</b>											
Education .....	88	213	126	78	Q	1,833	6,637	3,752	2,579	Q	15.43
Food Sales .....	41	90	59	Q	Q	217	540	420	Q	Q	27.77
Food Service .....	65	195	133	56	Q	271	1,220	841	300	Q	16.21
Health Care .....	27	36	22	Q	Q	277	1,486	1,175	Q	Q	23.18
Lodging .....	50	104	58	41	Q	477	2,413	1,359	900	Q	22.64
Mercantile and Service .....	693	573	286	227	60	4,872	7,516	4,605	2,363	548	10.82
Office .....	341	408	259	119	30	2,845	9,473	6,803	2,302	368	12.39
Parking Garage .....	11	13	9	Q	Q	156	1,496	986	Q	Q	49.11
Public Assembly .....	123	154	93	44	Q	1,036	3,518	2,294	994	Q	17.10
Public Order and Safety .....	20	40	24	Q	Q	286	534	410	Q	Q	37.69
Religious Worship .....	263	103	67	32	Q	1,919	1,828	1,283	478	Q	21.65
Warehouse and Storage .....	360	325	153	143	30	3,160	8,019	4,073	3,450	496	16.69
Other .....	27	38	22	Q	Q	332	793	429	Q	Q	33.51
Vacant .....	126	84	30	46	Q	1,432	1,938	859	976	Q	25.74
<b>Year Constructed</b>											
1899 or Before .....	114	55	34	17	Q	815	906	555	281	Q	25.23
1900 to 1919 .....	122	122	67	39	Q	1,288	2,113	1,099	843	Q	25.38
1920 to 1945 .....	389	292	167	84	41	3,392	4,993	2,689	1,845	459	16.63
1946 to 1959 .....	416	423	250	149	25	2,918	7,217	4,372	2,422	422	14.25
1960 to 1969 .....	358	399	227	138	34	3,497	8,975	5,354	3,095	526	12.96
1970 to 1979 .....	408	537	294	212	31	3,489	10,290	6,925	2,986	379	12.18
1980 to 1989 .....	373	480	261	193	26	3,218	10,929	6,891	3,668	371	13.60
1990 to 1992 .....	57	67	43	22	Q	495	1,987	1,404	538	Q	25.06
<b>Census Region and Division</b>											
Northeast .....	287	469	284	155	30	3,626	9,609	5,224	3,769	616	12.65
New England .....	72	114	71	31	Q	974	2,291	1,080	943	Q	30.26
Middle Atlantic .....	215	354	213	123	18	2,653	7,318	4,144	2,826	348	18.21
Midwest .....	692	447	259	151	36	6,013	10,889	7,057	3,399	433	12.46
East North Central .....	414	309	173	114	22	3,428	7,147	4,409	2,464	274	16.69
West North Central .....	278	138	86	38	Q	2,585	3,743	2,648	936	Q	20.79
South .....	818	1,054	549	430	75	5,577	18,395	11,089	6,411	896	12.50
South Atlantic .....	294	442	218	193	32	1,785	8,646	4,898	3,332	416	16.17
East South Central .....	244	184	114	56	Q	1,665	3,572	2,400	1,076	Q	28.09
West South Central .....	280	428	218	181	29	2,127	6,177	3,790	2,004	384	23.39
West .....	440	405	250	118	37	3,897	8,518	5,919	2,100	499	16.20
Mountain .....	141	141	73	56	Q	1,334	2,228	1,298	834	Q	30.01
Pacific .....	298	264	177	62	26	2,563	6,290	4,621	1,266	403	16.87

See footnotes at end of table.

**Table 3.25. Season of Peak Electricity Demand, Number of Buildings and Floorspace, 1992 (Continued)**

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	Buildings Not Demand-Metered	Demand-Metered Buildings	Season of Peak Electricity Demand			Buildings Not Demand-Metered	Demand-Metered Buildings	Season of Peak Electricity Demand			
			Summer	Winter	Summer and Winter			Summer	Winter	Summer and Winter	
RSE Column Factor:	0.8	0.6	0.8	1.1	1.8	1.0	0.7	0.9	1.1	1.8	
<b>Climate Zone: 45-Year Average</b>											
Fewer than 2,000 CDD and -- More than 7,000 HDD .....	240	142	81	45	Q	2,017	3,458	2,265	1,017	Q	26.72
5,500-7,000 HDD .....	478	611	358	207	46	4,319	13,401	7,760	4,930	711	14.63
4,000-5,499 HDD .....	604	435	237	177	21	6,371	9,594	6,009	3,189	396	19.94
Fewer than 4,000 HDD .....	545	510	337	133	40	3,931	10,934	7,679	2,709	546	20.87
More than 2,000 CDD and -- Fewer than 4,000 HDD .....	370	678	329	292	57	2,476	10,025	5,576	3,835	615	19.77
<b>Energy Sources (more than one may apply)</b>											
Electricity .....	2,236	2,375	1,342	854	179	19,113	47,412	29,289	15,679	2,444	7.25
Natural Gas .....	1,220	1,436	917	399	120	12,788	32,198	20,764	9,619	1,816	9.21
Fuel Oil .....	271	286	149	114	23	2,852	10,356	6,647	3,210	499	16.25
District Heat .....	22	72	47	24	Q	1,092	4,152	2,812	1,177	Q	34.07
District Chilled Water .....	Q	22	14	8	Q	Q	1,702	1,028	599	Q	27.65
Propane .....	184	151	89	46	Q	1,058	2,328	1,509	718	Q	22.50
Any Other .....	103	56	20	30	Q	688	852	329	433	Q	29.13
<b>Energy End Uses (more than one may apply)</b>											
Heated Buildings .....	1,968	2,204	1,271	771	161	17,469	44,495	27,688	14,556	2,252	7.17
Buildings with A/C .....	1,531	1,971	1,187	645	139	14,924	42,117	27,057	13,037	2,023	7.64
Buildings with Water Heating .....	1,573	1,929	1,141	656	131	15,733	42,745	26,830	13,792	2,123	7.49
Buildings with Cooking .....	225	509	334	145	29	5,204	17,861	12,399	4,895	567	11.26
Buildings with Manufacturing .....	41	77	37	35	Q	466	2,701	1,296	1,256	Q	24.01
<b>Workers (main shift)</b>											
Less than 5 .....	1,487	1,039	520	416	102	7,723	8,893	5,034	3,283	575	10.37
5 to 9 .....	398	497	289	184	Q	2,720	4,805	2,685	1,916	Q	11.66
10 to 19 .....	203	357	218	113	26	2,361	5,693	3,328	1,978	387	14.82
20 to 49 .....	107	298	191	86	21	2,058	8,499	5,251	2,667	581	12.96
50 to 99 .....	29	101	66	33	Q	1,543	6,220	3,714	2,391	Q	16.63
100 or More .....	12	84	58	22	Q	2,708	13,302	9,276	3,443	Q	16.18
<b>Weekly Operating Hours</b>											
39 or Fewer .....	585	301	147	121	34	3,545	3,520	1,838	1,387	294	15.46
40 to 48 .....	594	674	359	256	59	4,443	10,503	6,460	3,494	549	11.52
49 to 60 .....	518	473	265	178	30	4,578	9,442	5,453	3,555	433	11.09
61 to 84 .....	261	380	237	121	22	2,916	9,112	5,765	3,004	343	13.62
85 to 167 .....	161	315	188	106	Q	2,260	6,195	3,902	1,822	Q	14.76
Open Continuously .....	118	231	147	72	Q	1,371	8,640	5,870	2,416	Q	15.54
<b>Ownership and Occupancy</b>											
Nongovernment Owned .....	2,059	1,975	1,099	717	158	15,607	35,972	22,475	11,663	1,833	7.65
Owner Occupied .....	1,587	1,539	876	543	119	11,483	26,674	16,812	8,545	1,318	7.92
Single Establishment .....	1,415	1,383	781	493	109	9,321	20,431	12,728	6,618	1,085	8.85
Multiple Establishment .....	172	155	95	50	Q	2,161	6,243	4,083	1,927	Q	17.58
Nonowner Occupied .....	403	393	210	148	35	3,600	8,556	5,367	2,739	450	14.25
Single Establishment .....	235	249	135	92	Q	1,385	4,135	2,774	1,203	Q	17.10
Multiple Establishment .....	168	144	75	56	Q	2,215	4,421	2,593	1,536	Q	19.41
Vacant .....	69	43	Q	Q	Q	524	741	Q	Q	Q	32.25
Government Owned .....	177	401	243	136	21	3,506	11,440	6,813	4,015	611	13.37

See footnotes at end of table.

**Table 3.25. Season of Peak Electricity Demand, Number of Buildings and Floorspace, 1992 (Continued)**

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	Buildings Not Demand-Metered	Demand-Metered Buildings	Season of Peak Electricity Demand			Buildings Not Demand-Metered	Demand-Metered Buildings	Season of Peak Electricity Demand			
			Summer	Winter	Summer and Winter			Summer	Winter	Summer and Winter	
RSE Column Factor:	0.8	0.6	0.8	1.1	1.8	1.0	0.7	0.9	1.1	1.8	
<b>Space-Heating Energy Source</b>											
Electricity .....	634	879	424	406	48	6,712	18,925	10,446	7,743	735	10.59
Electricity Main .....	465	642	290	323	29	3,956	11,546	6,232	5,026	288	12.34
Electricity Secondary .....	169	237	134	83	Q	2,756	7,378	4,214	2,718	Q	15.55
Other Excluding Electricity .....	1,334	1,325	847	366	113	10,757	25,571	17,241	6,812	1,517	8.57
Building Not Heated .....	268	171	71	82	Q	1,644	2,916	1,601	1,123	Q	26.80
<b>Main Space-Heating Energy Source</b>											
Electricity .....	465	642	290	323	29	3,956	11,546	6,232	5,026	288	12.34
Natural Gas .....	1,079	1,188	776	309	103	10,172	24,950	16,581	6,813	1,556	9.91
Fuel Oil .....	211	182	95	74	Q	1,388	3,016	1,825	1,061	Q	20.28
District Heat .....	21	67	42	23	Q	914	3,836	2,534	1,138	Q	24.30
Propane .....	132	85	53	Q	Q	507	594	397	Q	Q	29.44
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Main Heating</b>											
Electricity Only .....	185	165	85	63	Q	938	1,621	926	457	Q	18.07
Natural Gas Only .....	105	109	46	53	Q	859	1,401	730	584	Q	24.17
Fuel Oil Only .....	69	91	54	30	Q	1,505	3,946	2,679	1,081	Q	22.10
Propane Only .....	105	105	66	33	Q	554	1,614	1,138	425	Q	21.40
Any Other Single Energy Source .....	40	Q	Q	Q	Q	133	Q	Q	Q	Q	22.05
More than One Energy Source .....	46	47	30	Q	Q	299	596	437	Q	Q	33.79
No Replacement Energy Source .....	1,418	1,671	977	577	117	13,181	34,973	21,492	11,876	1,606	7.95
Building Not Heated .....	268	171	71	82	Q	1,644	2,916	1,601	1,123	Q	26.80
<b>Cooling Energy Source</b>											
Electricity .....	1,491	1,914	1,151	628	134	14,315	40,313	25,933	12,437	1,943	7.67
Other Excluding Electricity .....	40	57	36	17	Q	609	1,804	1,124	600	Q	26.57
A/C Not Performed .....	706	404	156	209	40	4,189	5,295	2,232	2,642	421	15.84
<b>Water-Heating Energy Source</b>											
Electricity .....	781	915	481	389	45	6,910	18,572	10,533	7,231	807	10.15
Other Excluding Electricity .....	792	1,013	660	267	86	8,823	24,173	16,297	6,560	1,316	9.40
Water Heating Not Performed .....	663	447	201	197	48	3,381	4,667	2,458	1,887	321	16.64
<b>Cooking Energy Source</b>											
Electricity .....	106	250	153	86	Q	2,403	9,780	6,893	2,713	Q	14.20
Other Excluding Electricity .....	120	258	181	59	18	2,801	8,081	5,506	2,182	393	15.27
Cooking Not Performed .....	2,011	1,866	1,008	708	150	13,909	29,550	16,889	10,784	1,877	8.34
<b>Percent of Floorspace Heated</b>											
Not Heated .....	268	171	71	82	Q	1,644	2,916	1,601	1,123	Q	26.80
1 to 50 .....	381	330	168	126	36	4,019	7,488	4,064	3,017	406	14.71
51 to 99 .....	292	323	174	137	Q	2,788	7,411	4,253	2,647	Q	13.57
100 .....	1,296	1,550	929	508	113	10,663	29,596	19,370	8,892	1,333	7.92
<b>Percent of Floorspace Cooled</b>											
Not Cooled .....	706	404	156	209	40	4,189	5,295	2,232	2,642	421	15.84
1 to 50 .....	544	632	337	232	62	6,515	15,200	8,070	6,162	968	9.67
51 to 99 .....	283	375	247	112	16	3,679	10,193	7,269	2,496	428	13.99
100 .....	703	964	603	301	61	4,730	16,724	11,718	4,379	627	10.13

See footnotes at end of table.

**Table 3.25. Season of Peak Electricity Demand, Number of Buildings and Floorspace, 1992 (Continued)**

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	Buildings Not Demand-Metered	Demand-Metered Buildings	Season of Peak Electricity Demand			Buildings Not Demand-Metered	Demand-Metered Buildings	Season of Peak Electricity Demand			
			Summer	Winter	Summer and Winter			Summer	Winter	Summer and Winter	
RSE Column Factor:	0.8	0.6	0.8	1.1	1.8	1.0	0.7	0.9	1.1	1.8	
<b>Percent Lit when Open</b>											
Not Lit .....	160	60	Q	Q	Q	1,158	776	Q	Q	Q	29.58
1 to 50 .....	504	376	179	154	43	4,074	5,901	3,403	2,168	330	13.89
51 to 99 .....	369	443	260	149	34	3,581	10,641	6,828	3,258	555	11.94
100 .....	1,203	1,496	886	514	97	10,299	30,093	18,717	9,914	1,463	8.36
<b>Percent Lit when Closed</b>											
Not Lit .....	1,471	1,322	735	485	103	9,989	23,145	14,526	7,443	1,177	8.68
1 to 50 .....	699	990	579	337	74	8,548	22,934	14,039	7,647	1,248	9.30
51 to 99 .....	Q	23	13	Q	Q	Q	790	529	Q	Q	36.78
100 .....	47	40	16	Q	Q	345	543	195	Q	Q	36.64
<b>Lighting Equipment (more than one may apply)</b>											
Incandescent .....	1,244	1,265	741	432	92	11,713	27,508	17,292	8,672	1,544	8.35
Standard Fluorescent .....	1,871	2,193	1,249	772	171	17,187	44,880	27,779	14,765	2,336	7.14
Compact Fluorescent .....	75	132	99	26	Q	2,162	6,173	4,496	1,473	Q	16.75
High-Intensity Discharge .....	110	244	138	87	19	3,201	14,369	8,391	5,207	771	13.28
Other .....	40	39	22	12	Q	552	1,060	733	308	Q	31.36
<b>Commercial Refrigeration Equipment (more than one may apply)</b>											
Any Equipment .....	336	634	403	197	35	5,977	19,429	12,966	5,704	759	10.68
Walk-in Units .....	160	431	288	121	22	3,830	14,850	10,090	4,221	539	12.33
Cases and Cabinets .....	270	513	322	164	27	5,165	15,822	10,656	4,540	626	11.12
None .....	1,900	1,741	940	657	144	13,136	27,982	16,323	9,975	1,685	8.59
<b>Personal Computers and/or Computer Terminals</b>											
1 to 4 .....	645	625	363	212	49	4,916	8,439	5,087	2,761	591	9.89
5 to 9 .....	112	224	136	72	Q	1,532	4,438	2,825	1,368	Q	14.76
10 to 19 .....	63	153	92	55	Q	1,501	4,735	2,817	1,624	Q	16.97
20 to 49 .....	34	130	81	41	Q	1,034	6,405	3,945	2,177	Q	17.44
50 or More .....	15	96	64	28	4	2,579	12,112	8,059	3,651	402	17.01
<b>Annual Consumption (kilowatthours)</b>											
10,000 or Less .....	824	265	99	122	44	3,593	1,156	475	498	183	17.30
10,001 to 50,000 .....	938	834	450	319	66	5,489	6,210	3,254	2,500	456	10.85
50,001 to 100,000 .....	268	404	255	121	28	2,686	4,398	2,606	1,523	269	13.63
100,001 to 500,000 .....	182	646	394	221	30	3,724	12,316	7,436	4,222	657	10.68
500,001 to 1,000,000 .....	12	103	61	37	Q	799	5,559	3,239	2,111	Q	19.06
1,000,001 to 5,000,000 .....	9	108	73	30	Q	1,342	11,274	7,460	3,304	Q	16.01
Over 5,000,000 .....	3	15	11	4	Q	1,480	6,498	4,817	1,520	Q	23.49
<b>Peak Electricity Demand (kilowatts)</b>											
10 or Less .....	Q	434	195	164	75	Q	2,330	994	981	355	17.38
11 to 25 .....	Q	635	343	251	41	Q	4,410	2,374	1,753	283	12.61
26 to 50 .....	Q	500	324	151	25	Q	4,994	3,101	1,516	377	12.44
51 to 100 .....	Q	389	233	140	16	Q	6,929	4,208	2,406	314	12.40
101 to 250 .....	Q	246	140	94	Q	Q	8,410	4,716	3,350	Q	12.31
251 to 1,000 .....	Q	141	89	42	Q	Q	12,155	7,851	3,697	Q	13.56
Over 1,000 .....	Q	30	18	11	Q	Q	8,184	6,045	1,974	Q	23.08

See footnotes at end of table.

**Table 3.25. Season of Peak Electricity Demand, Number of Buildings and Floorspace, 1992 (Continued)**

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	Buildings Not Demand-Metered	Demand-Metered Buildings	Season of Peak Electricity Demand			Buildings Not Demand-Metered	Demand-Metered Buildings	Season of Peak Electricity Demand			
			Summer	Winter	Summer and Winter			Summer	Winter	Summer and Winter	
RSE Column Factor:	0.8	0.6	0.8	1.1	1.8	1.0	0.7	0.9	1.1	1.8	
<b>Building Generates Electricity</b>											
Yes .....	44	109	72	30	Q	1,755	8,618	6,069	2,167	Q	16.12
No .....	2,192	2,266	1,271	824	172	17,358	38,794	23,220	13,512	2,062	7.55

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.26. Electricity Consumption and Conditional Energy Intensity by Season of Peak Demand, 1992**

Building Characteristics	Total Electricity Consumption (billion kWh)					Electricity Energy Intensity (kWh/sq. ft.)					RSE Row Factor
	Buildings Not Demand- Metered	Demand- Metered Buildings	Season of Peak Electricity Demand			Buildings Not Demand- Metered	Demand- Metered Buildings	Season of Peak Electricity Demand			
			Summer	Winter	Summer and Winter			Summer	Winter	Summer and Winter	
	RSE Column Factor:										
1.1	0.8	1.0	1.2	2.2	0.8	0.6	0.7	0.9	1.7		
<b>All Buildings</b> .....	136	629	414	187	28	7.10	13.27	14.14	11.90	11.52	7.65
<b>Building Floorspace (square feet)</b>											
1,001 to 5,000 .....	34	64	38	23	3	8.55	21.28	23.11	20.88	12.03	10.34
5,001 to 10,000 .....	18	55	34	18	4	5.53	14.84	15.94	13.60	12.47	14.34
10,001 to 25,000 .....	17	81	50	27	4	5.09	12.10	12.84	10.79	13.02	11.16
25,001 to 50,000 .....	12	90	57	32	Q	5.07	11.99	12.71	11.72	Q	17.84
50,001 to 100,000 .....	8	83	56	20	7	5.67	12.56	14.33	9.32	12.73	16.26
100,001 to 200,000 .....	13	89	58	26	Q	7.35	11.21	11.20	10.95	Q	18.40
200,001 to 500,000 .....	19	87	60	25	Q	12.23	14.16	13.92	14.52	Q	23.33
Over 500,000 .....	15	80	62	17	Q	10.40	13.76	16.33	9.05	Q	24.79
<b>Principal Building Activity</b>											
Education .....	12	56	31	22	Q	6.79	8.48	8.30	8.61	Q	13.08
Food Sales .....	6	27	22	Q	Q	25.93	50.68	51.93	Q	Q	19.39
Food Service .....	7	34	21	10	Q	24.73	27.56	25.49	34.86	Q	19.59
Health Care .....	5	35	28	Q	Q	19.03	23.63	24.18	Q	Q	16.68
Lodging .....	6	50	28	19	Q	11.98	20.59	20.92	21.30	Q	25.98
Mercantile and Service .....	38	92	58	27	7	7.77	12.30	12.63	11.48	12.97	11.73
Office .....	29	178	126	44	7	10.06	18.74	18.55	19.12	19.95	12.94
Parking Garage .....	1	Q	Q	Q	Q	6.05	6.95	8.47	Q	Q	49.19
Public Assembly .....	7	44	28	14	Q	6.34	12.54	12.31	14.37	Q	20.89
Public Order and Safety .....	Q	5	4	Q	Q	9.57	10.19	9.80	Q	Q	40.40
Religious Worship .....	5	5	3	1	Q	2.36	2.59	2.38	3.11	Q	20.91
Warehouse and Storage .....	12	62	37	23	2	3.93	7.71	9.02	6.65	4.35	21.03
Other .....	Q	19	11	Q	Q	Q	23.65	26.27	Q	Q	24.44
Vacant .....	2	12	7	4	Q	1.47	5.96	7.96	4.25	Q	29.44
<b>Year Constructed</b>											
1899 or Before .....	3	9	5	4	Q	3.34	9.41	8.53	12.91	Q	32.84
1900 to 1919 .....	4	15	11	4	Q	3.25	7.32	9.81	4.84	Q	26.85
1920 to 1945 .....	19	45	30	11	4	5.55	8.96	11.09	5.90	8.76	18.58
1946 to 1959 .....	17	80	56	18	7	5.78	11.14	12.77	7.38	15.78	18.24
1960 to 1969 .....	30	124	80	37	7	8.68	13.85	14.92	11.94	14.13	16.40
1970 to 1979 .....	31	153	103	47	4	8.83	14.92	14.80	15.63	11.32	12.15
1980 to 1989 .....	27	174	113	57	4	8.53	15.96	16.33	15.67	12.09	12.99
1990 to 1992 .....	4	28	18	9	Q	8.87	13.90	12.89	16.78	Q	22.96
<b>Census Region and Division</b>											
Northeast .....	28	94	62	30	3	7.82	9.82	11.78	7.92	4.85	11.79
New England .....	6	24	13	9	Q	6.34	10.37	12.40	9.25	Q	21.43
Middle Atlantic .....	22	71	48	21	1	8.36	9.65	11.62	7.48	3.89	14.42
Midwest .....	40	142	101	37	4	6.73	13.01	14.29	10.81	9.36	15.52
East North Central .....	22	88	64	22	2	6.36	12.36	14.59	9.04	6.26	16.75
West North Central .....	19	53	37	14	Q	7.22	14.26	13.79	15.49	Q	24.21
South .....	37	257	157	88	12	6.62	13.96	14.13	13.68	13.80	12.27
South Atlantic .....	16	119	65	47	7	8.88	13.75	13.25	14.08	17.03	16.83
East South Central .....	12	57	40	17	Q	6.92	16.04	16.54	15.81	Q	25.98
West South Central .....	10	81	52	24	5	4.48	13.03	13.72	11.88	12.21	16.77
West .....	30	136	95	32	9	7.68	15.98	16.06	15.37	17.53	15.64
Mountain .....	13	41	26	13	Q	9.64	18.59	20.29	15.47	Q	27.17
Pacific .....	17	95	69	19	7	6.65	15.05	14.87	15.31	16.31	17.30

See footnotes at end of table.



**Table 3.26. Electricity Consumption and Conditional Energy Intensity by Season of Peak Demand, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)					Electricity Energy Intensity (kWh/sq. ft.)					RSE Row Factor
	Buildings Not Demand- Metered	Demand- Metered Buildings	Season of Peak Electricity Demand			Buildings Not Demand- Metered	Demand- Metered Buildings	Season of Peak Electricity Demand			
			Summer	Winter	Summer and Winter			Summer	Winter	Summer and Winter	
RSE Column Factor:	1.1	0.8	1.0	1.2	2.2	0.8	0.6	0.7	0.9	1.7	
<b>Climate Zone: 45-Year Average</b>											
Fewer than 2,000 CDD and -- More than 7,000 HDD .....	9	47	29	16	Q	4.62	13.73	12.67	15.67	Q	22.63
5,500-7,000 HDD .....	30	152	106	41	5	6.94	11.33	13.60	8.39	7.04	13.98
4,000-5,499 HDD .....	54	121	85	32	3	8.43	12.62	14.22	10.10	8.51	14.01
Fewer than 4,000 HDD .....	24	169	111	48	11	6.18	15.49	14.43	17.71	19.29	16.05
More than 2,000 CDD and -- Fewer than 4,000 HDD .....	18	139	84	49	6	7.41	13.88	15.00	12.81	10.38	16.18
<b>Energy Sources (more than one may apply)</b>											
Electricity .....	136	629	414	187	28	7.10	13.27	14.14	11.90	11.52	7.64
Natural Gas .....	97	421	293	107	21	7.59	13.09	14.11	11.17	11.62	8.86
Fuel Oil .....	24	168	116	44	8	8.43	16.24	17.48	13.75	15.88	15.02
District Heat .....	14	68	52	15	Q	12.48	16.40	18.37	12.33	Q	29.44
District Chilled Water .....	Q	32	19	11	Q	Q	18.63	18.89	18.00	Q	25.83
Propane .....	6	33	21	9	Q	5.74	13.97	14.14	13.15	Q	20.52
Any Other .....	2	8	5	3	Q	3.57	9.91	16.59	6.24	Q	29.12
<b>Energy End Uses (more than one may apply)</b>											
Heated Buildings .....	132	600	396	178	27	7.56	13.49	14.28	12.20	12.09	7.54
Buildings with A/C .....	125	592	394	171	26	8.37	14.05	14.58	13.13	12.97	7.77
Buildings with Water Heating .....	126	597	394	177	26	8.02	13.97	14.68	12.84	12.46	7.85
Buildings with Cooking .....	56	284	203	74	7	10.84	15.92	16.37	15.12	12.93	10.53
Buildings with Manufacturing .....	3	31	18	12	Q	6.83	11.63	13.77	9.24	Q	22.53
<b>Workers (main shift)</b>											
Less than 5 .....	32	81	49	29	3	4.16	9.09	9.73	8.68	5.87	14.04
5 to 9 .....	20	49	29	18	Q	7.29	10.15	10.67	9.49	Q	13.45
10 to 19 .....	15	71	44	23	4	6.30	12.50	13.27	11.81	9.42	15.46
20 to 49 .....	17	107	68	31	8	8.11	12.60	12.91	11.77	13.57	13.34
50 to 99 .....	11	86	53	31	Q	7.15	13.82	14.23	12.99	Q	21.48
100 or More .....	41	235	172	54	9	15.16	17.67	18.51	15.71	15.87	13.69
<b>Weekly Operating Hours</b>											
39 or Fewer .....	7	17	8	7	1	2.01	4.70	4.59	4.82	4.79	13.70
40 to 48 .....	29	112	76	32	5	6.54	10.70	11.76	9.09	8.48	12.96
49 to 60 .....	24	102	63	35	4	5.21	10.76	11.53	9.87	8.44	11.11
61 to 84 .....	24	117	81	31	5	8.15	12.88	14.10	10.34	14.55	14.96
85 to 167 .....	30	102	66	30	6	13.11	16.47	16.99	16.47	12.22	14.68
Open Continuously .....	22	179	119	52	Q	16.18	20.71	20.32	21.52	Q	15.30
<b>Ownership and Occupancy</b>											
Nongovernment Owned .....	103	499	337	142	21	6.62	13.87	14.97	12.17	11.21	8.07
Owner Occupied .....	76	392	261	115	15	6.58	14.69	15.54	13.48	11.72	8.74
Single Establishment .....	61	313	202	99	12	6.49	15.32	15.89	14.90	11.20	9.60
Multiple Establishment .....	15	79	59	17	Q	6.94	12.63	14.44	8.62	Q	17.15
Nonowner Occupied .....	27	104	73	26	5	7.46	12.12	13.68	9.32	10.53	13.76
Single Establishment .....	11	55	43	9	Q	7.69	13.23	15.67	7.64	Q	19.44
Multiple Establishment .....	16	49	30	16	Q	7.31	11.08	11.55	10.63	Q	18.34
Vacant .....	1	3	Q	Q	Q	1.71	4.67	Q	Q	Q	51.14
Government Owned .....	32	130	78	45	8	9.24	11.36	11.39	11.13	12.43	13.37

See footnotes at end of table.

**Table 3.26. Electricity Consumption and Conditional Energy Intensity by Season of Peak Demand, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)					Electricity Energy Intensity (kWh/sq. ft.)					RSE Row Factor
	Buildings Not Demand- Metered	Demand- Metered Buildings	Season of Peak Electricity Demand			Buildings Not Demand- Metered	Demand- Metered Buildings	Season of Peak Electricity Demand			
			Summer	Winter	Summer and Winter			Summer	Winter	Summer and Winter	
RSE Column Factor:	1.1	0.8	1.0	1.2	2.2	0.8	0.6	0.7	0.9	1.7	
<b>Space-Heating Energy Source</b>											
Electricity .....	66	286	168	110	9	9.85	15.13	16.07	14.20	11.61	10.70
Electricity Main .....	39	196	107	84	4	9.75	16.96	17.23	16.76	14.54	12.29
Electricity Secondary .....	28	91	61	26	4	9.98	12.27	14.36	9.46	9.72	16.61
Other Excluding Electricity .....	66	314	228	68	19	6.13	12.28	13.20	9.93	12.33	9.24
Building Not Heated .....	4	29	Q	Q	Q	2.18	9.80	11.64	Q	Q	33.73
<b>Main Space-Heating Energy Source</b>											
Electricity .....	39	196	107	84	4	9.75	16.96	17.23	16.76	14.54	12.29
Natural Gas .....	70	305	218	68	18	6.92	12.23	13.17	10.03	11.83	9.40
Fuel Oil .....	6	26	18	7	Q	4.29	8.53	9.66	6.33	Q	17.71
District Heat .....	13	62	46	14	Q	14.75	16.22	18.28	12.26	Q	25.02
Propane .....	3	6	3	Q	Q	5.54	9.95	8.61	Q	Q	31.83
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Main Heating</b>											
Electricity Only .....	7	16	9	5	Q	7.11	9.59	10.17	10.30	Q	21.23
Natural Gas Only .....	7	17	10	6	Q	8.23	11.97	13.89	10.68	Q	28.57
Fuel Oil Only .....	11	65	44	18	Q	7.21	16.53	16.34	16.19	Q	22.86
Propane Only .....	3	18	13	4	Q	5.85	11.12	11.73	9.76	Q	25.87
Any Other Single Energy Source .....	(*)	Q	Q	Q	Q	3.28	Q	Q	Q	Q	31.66
More than One Energy Source .....	2	7	6	Q	Q	6.44	12.51	13.90	Q	Q	31.65
No Replacement Energy Source .....	102	474	310	144	20	7.73	13.56	14.43	12.11	12.60	7.73
Building Not Heated .....	4	29	Q	Q	Q	2.18	9.80	11.64	Q	Q	33.73
<b>Cooling Energy Source</b>											
Electricity .....	120	562	377	161	24	8.35	13.94	14.54	12.93	12.44	7.81
Other Excluding Electricity .....	5	30	17	10	Q	8.64	16.55	15.45	17.35	Q	32.85
A/C Not Performed .....	11	37	20	15	2	2.58	6.98	8.82	5.82	4.52	23.35
<b>Water-Heating Energy Source</b>											
Electricity .....	53	269	154	104	11	7.72	14.47	14.62	14.32	13.80	11.16
Other Excluding Electricity .....	73	329	240	74	15	8.25	13.60	14.72	11.21	11.63	9.60
Water Heating Not Performed .....	9	32	20	10	2	2.81	6.76	8.27	5.05	5.30	21.47
<b>Cooking Energy Source</b>											
Electricity .....	31	164	120	41	Q	12.84	16.75	17.45	15.09	Q	11.24
Other Excluding Electricity .....	26	120	83	33	5	9.13	14.91	15.02	15.17	11.99	14.67
Cooking Not Performed .....	79	345	211	113	21	5.70	11.66	12.51	10.44	11.09	9.11
<b>Percent of Floorspace Heated</b>											
Not Heated .....	4	29	Q	Q	Q	2.18	9.80	11.64	Q	Q	33.73
1 to 50 .....	22	53	32	18	2	5.49	7.03	7.90	6.05	5.51	16.98
51 to 99 .....	23	103	61	37	Q	8.42	13.94	14.24	13.86	Q	13.31
100 .....	87	444	303	123	19	8.11	15.02	15.63	13.79	14.18	8.57
<b>Percent of Floorspace Cooled</b>											
Not Cooled .....	11	37	20	15	2	2.58	6.98	8.82	5.82	4.52	23.35
1 to 50 .....	33	107	60	39	7	5.03	7.04	7.49	6.40	7.33	11.25
51 to 99 .....	44	175	122	47	6	12.04	17.17	16.81	18.85	13.56	13.19
100 .....	48	310	212	85	13	10.10	18.53	18.08	19.36	21.29	10.29

See footnotes at end of table.

**Table 3.26. Electricity Consumption and Conditional Energy Intensity by Season of Peak Demand, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)					Electricity Energy Intensity (kWh/sq. ft.)					RSE Row Factor
	Buildings Not Demand- Metered	Demand- Metered Buildings	Season of Peak Electricity Demand			Buildings Not Demand- Metered	Demand- Metered Buildings	Season of Peak Electricity Demand			
			Summer	Winter	Summer and Winter			Summer	Winter	Summer and Winter	
RSE Column Factor:	1.1	0.8	1.0	1.2	2.2	0.8	0.6	0.7	0.9	1.7	
<b>Percent Lit when Open</b>											
Not Lit .....	1	3	Q	1	Q	1.29	4.45	Q	2.48	Q	37.46
1 to 50 .....	12	37	24	11	1	2.93	6.20	7.06	5.15	4.30	19.39
51 to 99 .....	29	131	90	37	5	8.12	12.32	13.19	11.22	8.12	12.27
100 .....	93	458	298	138	22	9.04	15.21	15.91	13.93	14.91	8.94
<b>Percent Lit when Closed</b>											
Not Lit .....	59	310	201	94	16	5.92	13.41	13.86	12.57	13.21	10.12
1 to 50 .....	71	297	200	84	12	8.36	12.94	14.26	10.99	9.95	8.95
51 to 99 .....	Q	13	9	Q	Q	Q	16.57	17.50	Q	Q	40.10
100 .....	2	9	3	Q	Q	5.01	16.04	16.85	Q	Q	37.89
<b>Lighting Equipment (more than one may apply)</b>											
Incandescent .....	91	389	251	119	19	7.77	14.14	14.53	13.74	12.04	9.29
Standard Fluorescent .....	131	601	395	178	28	7.62	13.39	14.23	12.04	11.98	7.51
Compact Fluorescent .....	24	110	86	21	Q	11.27	17.83	19.19	14.13	Q	15.08
High-Intensity Discharge .....	34	183	113	61	9	10.52	12.73	13.44	11.81	11.24	13.18
Other .....	3	16	13	3	Q	6.05	15.04	17.35	9.35	Q	36.10
<b>Commercial Refrigeration Equipment (more than one may apply)</b>											
Any Equipment .....	69	326	226	89	10	11.60	16.75	17.43	15.67	13.38	9.62
Walk-in Units .....	54	267	187	72	8	14.19	17.98	18.56	17.00	14.66	10.82
Cases and Cabinets .....	62	275	192	74	9	11.92	17.35	17.98	16.31	14.16	10.61
None .....	66	303	188	97	18	5.05	10.84	11.53	9.75	10.68	9.76
<b>Personal Computers and/or Computer Terminals</b>											
1 to 4 .....	30	94	54	35	6	6.00	11.16	10.60	12.52	9.60	12.19
5 to 9 .....	9	59	39	16	Q	6.03	13.18	13.96	11.89	Q	16.26
10 to 19 .....	13	60	36	22	Q	8.83	12.64	12.77	13.36	Q	17.40
20 to 49 .....	10	75	53	18	Q	9.98	11.68	13.36	8.28	Q	14.60
50 or More .....	40	223	155	60	8	15.39	18.42	19.28	16.36	19.92	13.82
<b>Annual Consumption (kilowatthours)</b>											
10,000 or Less .....	4	2	1	1	(*)	1.07	1.30	1.19	1.32	1.55	17.51
10,001 to 50,000 .....	22	22	12	9	2	4.02	3.60	3.72	3.45	3.50	10.19
50,001 to 100,000 .....	19	29	19	9	2	7.15	6.66	7.11	5.75	7.47	12.72
100,001 to 500,000 .....	33	141	86	49	7	8.88	11.45	11.52	11.53	10.15	9.20
500,001 to 1,000,000 .....	9	70	41	25	Q	10.96	12.51	12.78	11.91	Q	15.21
1,000,001 to 5,000,000 .....	19	208	146	53	Q	14.31	18.44	19.56	15.96	Q	13.72
Over 5,000,000 .....	29	157	110	42	Q	19.92	24.21	22.82	27.64	Q	17.57
<b>Peak Electricity Demand (kilowatts)</b>											
10 or Less .....	Q	6	3	2	1	Q	2.38	2.71	2.06	2.30	17.24
11 to 25 .....	Q	23	12	8	2	Q	5.12	5.21	4.84	6.09	13.02
26 to 50 .....	Q	45	30	13	3	Q	9.06	9.64	8.35	7.14	14.25
51 to 100 .....	Q	74	42	28	3	Q	10.62	10.02	11.81	9.55	10.97
101 to 250 .....	Q	103	61	37	Q	Q	12.28	13.01	11.10	Q	10.65
251 to 1,000 .....	Q	198	139	50	10	Q	16.31	17.64	13.46	16.34	13.45
Over 1,000 .....	Q	181	127	48	Q	Q	22.06	21.03	24.35	Q	15.23

See footnotes at end of table.

**Table 3.26. Electricity Consumption and Conditional Energy Intensity by Season of Peak Demand, 1992 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)					Electricity Energy Intensity (kWh/sq. ft.)					RSE Row Factor
	Buildings Not Demand- Metered	Demand- Metered Buildings	Season of Peak Electricity Demand			Buildings Not Demand- Metered	Demand- Metered Buildings	Season of Peak Electricity Demand			
			Summer	Winter	Summer and Winter			Summer	Winter	Summer and Winter	
RSE Column Factor:	1.1	0.8	1.0	1.2	2.2	0.8	0.6	0.7	0.9	1.7	
<b>Building Generates Electricity</b>											
Yes .....	22	164	122	36	Q	12.27	19.06	20.10	16.54	Q	13.93
No .....	114	465	292	151	22	6.57	11.98	12.58	11.16	10.53	8.21

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

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.27. Peak Electricity Demand Category, Number of Buildings, 1992**  
(Thousand)

Building Characteristics	Demand-Metered Buildings	10 kW or Less	11 to 25 kW	26 to 50 kW	51 to 100 kW	101 to 250 kW	251 to 1,000 kW	Over 1,000 kW	RSE Row Factor
	0.6	1.2	0.9	0.9	1.0	1.0	1.1	1.7	
<b>All Buildings</b> .....	2,375	434	635	500	389	246	141	30	8.56
<b>Building Floorspace (square feet)</b>									
1,001 to 5,000 .....	1,075	325	400	223	88	Q	Q	Q	11.80
5,001 to 10,000 .....	500	74	150	141	95	28	Q	Q	13.96
10,001 to 25,000 .....	411	24	63	100	134	75	Q	Q	14.40
25,001 to 50,000 .....	210	Q	18	27	54	66	30	Q	18.43
50,001 to 100,000 .....	94	Q	Q	Q	11	33	38	Q	18.25
100,001 to 200,000 .....	58	Q	Q	Q	Q	10	31	5	16.78
200,001 to 500,000 .....	21	Q	Q	Q	Q	Q	10	7	15.93
Over 500,000 .....	8	Q	Q	Q	Q	Q	1	6	26.04
<b>Principal Building Activity</b>									
Education .....	213	17	41	38	49	38	26	3	18.14
Food Sales .....	90	Q	Q	33	Q	Q	Q	Q	29.65
Food Service .....	195	Q	Q	63	53	Q	Q	Q	17.01
Health Care .....	36	Q	Q	Q	Q	Q	4	2	23.06
Lodging .....	104	Q	Q	12	22	17	17	Q	26.39
Mercantile and Service .....	573	127	196	114	82	35	17	Q	15.07
Office .....	408	56	122	72	65	51	31	12	16.96
Parking Garage .....	13	Q	Q	Q	Q	Q	Q	Q	65.64
Public Assembly .....	154	Q	36	37	27	19	8	Q	25.59
Public Order and Safety .....	40	Q	Q	Q	Q	Q	Q	Q	46.39
Religious Worship .....	103	Q	Q	37	20	Q	Q	Q	22.28
Warehouse and Storage .....	325	111	83	55	33	28	13	2	22.04
Other .....	38	Q	Q	Q	Q	Q	Q	Q	40.39
Vacant .....	84	Q	Q	Q	Q	Q	Q	Q	27.27
<b>Year Constructed</b>									
1899 or Before .....	55	Q	Q	Q	Q	Q	Q	Q	32.26
1900 to 1919 .....	122	32	44	Q	16	Q	Q	Q	27.73
1920 to 1945 .....	292	84	79	59	40	20	8	2	20.70
1946 to 1959 .....	423	78	126	93	67	35	22	2	17.55
1960 to 1969 .....	399	80	93	91	56	48	24	7	16.30
1970 to 1979 .....	537	95	127	108	105	61	31	10	15.22
1980 to 1989 .....	480	46	129	111	84	57	44	8	16.51
1990 to 1992 .....	67	Q	Q	Q	10	12	7	1	26.10
<b>Census Region and Division</b>									
Northeast .....	469	90	166	97	58	36	19	3	13.39
New England .....	114	Q	Q	26	17	13	6	Q	38.48
Middle Atlantic .....	354	73	131	71	42	22	13	2	16.61
Midwest .....	447	95	113	80	72	52	28	7	17.29
East North Central .....	309	75	83	50	50	31	16	4	20.91
West North Central .....	138	Q	31	30	22	20	12	3	28.33
South .....	1,054	210	271	237	163	106	53	14	14.58
South Atlantic .....	442	78	109	93	80	45	28	Q	17.97
East South Central .....	184	Q	Q	43	31	26	14	Q	33.33
West South Central .....	428	91	135	101	52	36	12	Q	24.47
West .....	405	39	85	86	96	52	41	6	20.17
Mountain .....	141	Q	42	34	22	20	13	Q	38.03
Pacific .....	264	30	43	52	74	33	27	5	21.69
<b>Climate Zone: 45-Year Average</b>									
Fewer than 2,000 CDD and -- More than 7,000 HDD .....	142	Q	32	Q	25	22	14	Q	38.48
5,500-7,000 HDD .....	611	115	203	115	83	58	31	5	15.83
4,000-5,499 HDD .....	435	73	116	106	69	42	24	5	21.95
Fewer than 4,000 HDD .....	510	77	108	104	105	64	44	7	20.60
More than 2,000 CDD and -- Fewer than 4,000 HDD .....	678	149	175	150	107	59	28	Q	20.62

See footnotes at end of table.

**Table 3.27. Peak Electricity Demand Category, Number of Buildings, 1992 (Continued)**  
(Thousand)

Building Characteristics	Demand-Metered Buildings	10 kW or Less	11 to 25 kW	26 to 50 kW	51 to 100 kW	101 to 250 kW	251 to 1,000 kW	Over 1,000 kW	RSE Row Factor
	0.6	1.2	0.9	0.9	1.0	1.0	1.1	1.7	
<b>Energy Sources (more than one may apply)</b>									
Electricity .....	2,375	434	635	500	389	246	141	30	8.66
Natural Gas .....	1,436	218	371	315	256	158	100	17	10.64
Fuel Oil .....	286	55	85	57	33	21	26	10	20.79
District Heat .....	71	Q	Q	Q	14	13	11	4	31.15
District Chilled Water .....	22	Q	Q	Q	Q	Q	5	2	32.10
Propane .....	151	Q	41	34	27	Q	7	Q	27.24
Any Other .....	56	Q	Q	Q	Q	Q	Q	Q	35.75
<b>Energy End Uses (more than one may apply)</b>									
Heated Buildings .....	2,204	347	594	479	382	236	136	28	8.63
Buildings with A/C .....	1,971	248	509	460	362	231	133	29	8.96
Buildings with Water Heating .....	1,929	234	489	450	368	226	134	29	8.94
Buildings with Cooking .....	509	26	81	122	123	80	60	17	14.25
Buildings with Manufacturing .....	77	Q	Q	Q	21	10	9	2	25.84
<b>Workers (main shift)</b>									
Less than 5 .....	1,039	346	365	179	87	39	17	Q	14.75
5 to 9 .....	497	68	174	131	88	30	Q	Q	14.28
10 to 19 .....	357	Q	71	122	95	38	15	Q	17.92
20 to 49 .....	298	Q	22	63	90	84	31	Q	16.44
50 to 99 .....	101	Q	Q	Q	25	41	26	Q	15.59
100 or More .....	84	Q	Q	Q	Q	14	46	16	13.99
<b>Weekly Operating Hours</b>									
39 or Fewer .....	301	100	78	65	38	17	Q	Q	18.45
40 to 48 .....	674	151	210	120	97	65	28	4	15.81
49 to 60 .....	473	80	149	98	69	46	27	4	15.17
61 to 84 .....	380	39	97	85	77	45	30	7	16.41
85 to 167 .....	315	Q	68	78	72	44	23	3	17.93
Open Continuously .....	231	37	34	55	36	29	29	11	19.88
<b>Ownership and Occupancy</b>									
Nongovernment Owned .....	1,975	369	554	418	317	190	103	24	9.29
Owner Occupied .....	1,539	253	431	346	256	151	83	18	10.05
Single Establishment .....	1,383	242	376	330	223	130	68	14	10.91
Multiple Establishment .....	155	Q	55	16	33	21	14	5	23.62
Nonowner Occupied .....	393	92	113	71	58	35	19	Q	16.24
Single Establishment .....	249	68	79	50	27	16	6	Q	21.63
Multiple Establishment .....	144	Q	34	Q	30	19	13	Q	26.19
Vacant .....	43	Q	Q	Q	Q	Q	Q	Q	35.84
Government Owned .....	401	65	82	82	72	55	38	7	14.96
<b>Space-Heating Energy Source</b>									
Electricity .....	879	104	196	206	176	117	64	16	12.83
Electricity Main .....	642	83	132	148	137	81	49	12	16.04
Electricity Secondary .....	237	Q	64	58	39	36	15	4	19.13
Other Excluding Electricity .....	1,325	244	399	273	206	119	72	13	10.50
Building Not Heated .....	171	87	41	20	Q	Q	Q	Q	25.05
<b>Main Space-Heating Energy Source</b>									
Electricity .....	642	83	132	148	137	81	49	12	16.04
Natural Gas .....	1,188	189	334	264	194	124	71	12	11.59
Fuel Oil .....	182	34	73	34	24	12	4	Q	27.14
District Heat .....	67	Q	Q	Q	14	13	10	4	26.31
Propane .....	85	Q	Q	Q	Q	Q	Q	Q	39.33
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.27. Peak Electricity Demand Category, Number of Buildings, 1992 (Continued)**  
(Thousand)

Building Characteristics	Demand-Metered Buildings	10 kW or Less	11 to 25 kW	26 to 50 kW	51 to 100 kW	101 to 250 kW	251 to 1,000 kW	Over 1,000 kW	RSE Row Factor
	RSE Column Factor:	0.6	1.2	0.9	0.9	1.0	1.0	1.1	
<b>Replacement Energy Source for Main Heating</b>									
Electricity Only .....	165	Q	78	31	23	Q	Q	Q	22.60
Natural Gas Only .....	109	Q	29	Q	17	Q	Q	Q	28.80
Fuel Oil Only .....	91	Q	21	18	12	10	9	3	26.96
Propane Only .....	105	Q	33	26	Q	Q	Q	Q	28.72
Any Other Single Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	99.99
More than One Energy Source .....	47	Q	Q	Q	Q	Q	Q	Q	44.80
No Replacement Energy Source .....	1,671	245	407	369	310	204	112	23	9.80
Building Not Heated .....	171	87	41	20	Q	Q	Q	Q	25.05
<b>Cooling Energy Source</b>									
Electricity .....	1,914	246	488	448	356	220	129	27	9.01
Other Excluding Electricity .....	57	Q	22	Q	Q	10	4	Q	31.00
A/C Not Performed .....	404	186	126	40	27	15	8	Q	21.52
<b>Water-Heating Energy Source</b>									
Electricity .....	915	106	217	246	171	106	55	15	11.68
Other Excluding Electricity .....	1,013	127	272	204	197	120	80	14	11.24
Water Heating Not Performed .....	447	201	147	50	21	20	Q	Q	20.05
<b>Cooking Energy Source</b>									
Electricity .....	250	Q	39	62	48	42	35	11	17.83
Other Excluding Electricity .....	258	Q	43	60	74	38	26	6	17.65
Cooking Not Performed .....	1,866	408	554	378	266	166	81	14	10.35
<b>Percent of Floorspace Heated</b>									
Not Heated .....	171	87	41	20	Q	Q	Q	Q	25.05
1 to 50 .....	330	93	100	57	48	18	12	Q	19.59
51 to 99 .....	323	28	85	66	81	36	22	5	19.10
100 .....	1,550	227	410	356	252	182	102	21	9.75
<b>Percent of Floorspace Cooled</b>									
Not Cooled .....	404	186	126	40	27	15	8	Q	21.52
1 to 50 .....	632	115	186	141	104	60	24	3	13.93
51 to 99 .....	375	26	95	84	75	49	36	9	16.44
100 .....	964	107	228	235	183	122	73	16	12.60
<b>Percent Lit when Open</b>									
Not Lit .....	60	40	Q	Q	Q	Q	Q	Q	29.09
1 to 50 .....	376	120	123	61	40	18	13	Q	19.30
51 to 99 .....	443	62	121	78	93	56	28	6	14.41
100 .....	1,496	213	380	358	255	169	99	23	9.82
<b>Percent Lit when Closed</b>									
Not Lit .....	1,322	312	369	264	177	119	65	16	10.73
1 to 50 .....	990	115	250	224	196	120	72	14	11.15
51 to 99 .....	23	Q	Q	Q	Q	Q	Q	Q	52.83
100 .....	40	Q	Q	Q	Q	Q	Q	Q	40.05
<b>Lighting Equipment (more than one may apply)</b>									
Incandescent .....	1,265	196	326	258	236	139	90	19	10.19
Standard Fluorescent .....	2,193	355	589	474	371	240	134	29	8.64
Compact Fluorescent .....	132	Q	33	19	22	18	24	6	20.50
High-Intensity Discharge .....	244	26	34	38	48	46	38	12	17.11
Other .....	39	Q	Q	Q	Q	Q	Q	Q	43.11

See footnotes at end of table.

**Table 3.27. Peak Electricity Demand Category, Number of Buildings, 1992 (Continued)**  
(Thousand)

Building Characteristics	Demand-Metered Buildings	10 kW or Less	11 to 25 kW	26 to 50 kW	51 to 100 kW	101 to 250 kW	251 to 1,000 kW	Over 1,000 kW	RSE Row Factor
	RSE Column Factor:	0.6	1.2	0.9	0.9	1.0	1.0	1.1	
<b>Commercial Refrigeration Equipment (more than one may apply)</b>									
Any Equipment .....	634	33	106	171	142	93	71	17	12.37
Walk-in Units .....	431	Q	49	120	108	68	53	14	13.27
Cases and Cabinets .....	513	24	85	135	119	79	57	14	13.65
None .....	1,741	401	529	328	247	152	70	13	11.00
<b>Personal Computers and/or Computer Terminals</b>									
1 to 4 .....	625	68	170	162	144	54	24	Q	14.09
5 to 9 .....	224	21	60	55	45	26	17	Q	17.78
10 to 19 .....	153	Q	Q	44	35	36	12	Q	18.60
20 to 49 .....	130	Q	Q	19	38	43	25	4	20.06
50 or More .....	96	Q	Q	Q	10	20	44	16	16.99
<b>Annual Consumption (kilowatthours)</b>									
10,000 or Less .....	265	222	43	Q	Q	Q	Q	Q	18.28
10,001 to 50,000 .....	834	210	470	117	25	Q	Q	Q	13.05
50,001 to 100,000 .....	404	Q	114	209	70	Q	Q	Q	13.62
100,001 to 500,000 .....	646	Q	Q	174	292	152	17	Q	11.59
500,001 to 1,000,000 .....	103	Q	Q	Q	Q	73	25	Q	16.60
1,000,001 to 5,000,000 .....	108	Q	Q	Q	Q	Q	93	10	12.66
Over 5,000,000 .....	15	Q	Q	Q	Q	Q	Q	14	14.86
<b>Season of Peak Electricity Demand</b>									
Summer .....	1,342	195	343	324	233	140	89	18	10.34
Winter .....	854	164	251	151	140	94	42	11	14.64
Summer and Winter .....	179	75	41	25	16	Q	Q	Q	22.93
<b>Building Generates Electricity</b>									
Yes .....	109	Q	Q	Q	12	17	32	10	17.16
No .....	2,266	425	630	476	377	229	109	20	9.19

NF = No applicable RSE row factor.

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. • 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. • 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.



**Table 3.28. Peak Electricity Demand Category, Floorspace, 1992**  
(Million Square Feet)

Building Characteristics	Demand-Metered Buildings	10 kW or Less	11 to 25 kW	26 to 50 kW	51 to 100 kW	101 to 250 kW	251 to 1,000 kW	Over 1,000 kW	RSE Row Factor
	RSE Column Factor:	0.5	1.5	1.1	1.0	1.0	0.9	1.0	
<b>All Buildings</b> .....	47,412	2,330	4,410	4,994	6,929	8,410	12,155	8,184	8.99
<b>Building Floorspace (square feet)</b>									
1,001 to 5,000 .....	3,008	840	1,120	658	267	Q	Q	Q	11.05
5,001 to 10,000 .....	3,720	537	1,093	1,069	713	207	Q	Q	13.37
10,001 to 25,000 .....	6,679	359	940	1,594	2,181	1,348	Q	Q	13.66
25,001 to 50,000 .....	7,496	Q	612	891	2,007	2,321	1,127	Q	17.76
50,001 to 100,000 .....	6,583	Q	Q	Q	797	2,262	2,680	Q	19.18
100,001 to 200,000 .....	7,948	Q	Q	Q	Q	1,404	4,221	815	19.34
200,001 to 500,000 .....	6,157	Q	Q	Q	Q	Q	2,677	2,351	18.82
Over 500,000 .....	5,822	Q	Q	Q	Q	Q	1,128	4,593	28.05
<b>Principal Building Activity</b>									
Education .....	6,637	79	175	489	1,020	1,723	2,519	632	20.77
Food Sales .....	540	Q	Q	115	Q	Q	Q	Q	30.55
Food Service .....	1,220	Q	Q	352	357	Q	Q	Q	24.55
Health Care .....	1,486	Q	Q	Q	Q	Q	374	743	19.72
Lodging .....	2,413	Q	Q	191	390	538	866	Q	29.41
Mercantile and Service .....	7,516	472	1,114	1,049	1,389	1,097	1,533	862	18.27
Office .....	9,473	202	1,023	521	1,008	1,400	2,415	2,904	17.96
Parking Garage .....	1,496	Q	Q	Q	Q	Q	Q	Q	67.24
Public Assembly .....	3,518	Q	220	329	618	406	597	Q	27.65
Public Order and Safety .....	534	Q	Q	Q	Q	Q	Q	Q	55.32
Religious Worship .....	1,828	Q	Q	639	522	Q	Q	Q	33.63
Warehouse and Storage .....	8,019	795	791	818	985	1,666	2,384	580	23.48
Other .....	793	Q	Q	Q	Q	Q	Q	Q	35.77
Vacant .....	1,938	Q	Q	Q	Q	Q	Q	Q	32.04
<b>Year Constructed</b>									
1899 or Before .....	906	Q	Q	Q	Q	Q	Q	Q	33.10
1900 to 1919 .....	2,113	194	417	Q	398	Q	Q	Q	26.30
1920 to 1945 .....	4,993	394	587	753	871	666	1,259	462	24.23
1946 to 1959 .....	7,217	378	687	976	1,326	1,628	1,787	435	19.78
1960 to 1969 .....	8,975	486	840	755	1,219	1,836	2,345	1,494	19.53
1970 to 1979 .....	10,290	507	808	957	1,614	1,811	2,187	2,407	16.20
1980 to 1989 .....	10,929	261	699	1,026	1,121	1,768	3,422	2,631	16.75
1990 to 1992 .....	1,987	Q	Q	Q	252	384	596	492	26.82
<b>Census Region and Division</b>									
Northeast .....	9,609	461	1,220	1,165	1,491	1,594	2,475	1,203	14.62
New England .....	2,291	Q	Q	296	397	396	635	Q	36.91
Middle Atlantic .....	7,318	374	926	868	1,094	1,198	1,840	1,018	18.17
Midwest .....	10,889	494	999	976	1,393	1,988	2,798	2,241	18.25
East North Central .....	7,147	411	765	577	864	1,428	1,688	1,414	22.53
West North Central .....	3,743	Q	234	400	529	560	1,110	827	26.65
South .....	18,395	1,146	1,756	2,010	2,670	3,175	4,194	3,445	16.05
South Atlantic .....	8,646	442	887	910	1,613	1,377	1,957	1,460	21.72
East South Central .....	3,572	Q	Q	393	395	659	1,181	Q	36.63
West South Central .....	6,177	350	679	707	663	1,139	1,056	1,584	25.61
West .....	8,518	229	435	843	1,374	1,653	2,688	1,296	18.88
Mountain .....	2,228	Q	231	243	325	447	680	Q	30.02
Pacific .....	6,290	180	204	600	1,050	1,206	2,008	1,043	21.71
<b>Climate Zone: 45-Year Average</b>									
Fewer than 2,000 CDD and --									
More than 7,000 HDD .....	3,458	Q	280	Q	554	482	1,020	Q	29.89
5,500-7,000 HDD .....	13,401	540	1,623	1,473	1,864	2,549	3,496	1,855	16.75
4,000-5,499 HDD .....	9,594	457	902	1,046	1,140	1,716	2,783	1,550	21.92
Fewer than 4,000 HDD .....	10,934	376	599	1,044	1,914	1,959	3,231	1,811	22.17
More than 2,000 CDD and --									
Fewer than 4,000 HDD .....	10,025	823	1,006	1,163	1,456	1,704	1,624	2,249	21.65

See footnotes at end of table.

**Table 3.28. Peak Electricity Demand Category, Floorspace, 1992 (Continued)**  
(Million Square Feet)

Building Characteristics	Demand-Metered Buildings	10 kW or Less	11 to 25 kW	26 to 50 kW	51 to 100 kW	101 to 250 kW	251 to 1,000 kW	Over 1,000 kW	RSE Row Factor
	RSE Column Factor:	0.5	1.5	1.1	1.0	1.0	0.9	1.0	
<b>Energy Sources (more than one may apply)</b>									
Electricity .....	47,412	2,330	4,410	4,994	6,929	8,410	12,155	8,184	9.18
Natural Gas .....	32,198	1,034	2,814	3,558	4,877	5,806	8,969	5,141	11.71
Fuel Oil .....	10,356	314	558	618	869	970	3,142	3,885	21.30
District Heat .....	4,152	Q	Q	Q	379	566	1,415	1,450	33.66
District Chilled Water .....	1,702	Q	Q	Q	Q	Q	570	724	29.87
Propane .....	2,328	Q	208	343	298	Q	657	Q	30.56
Any Other .....	852	Q	Q	Q	Q	Q	Q	Q	38.40
<b>Energy End Uses (more than one may apply)</b>									
Heated Buildings .....	44,495	1,581	4,106	4,801	6,678	8,006	11,631	7,694	8.96
Buildings with A/C .....	42,117	1,111	3,587	4,424	6,094	7,525	11,338	8,038	9.22
Buildings with Water Heating .....	42,745	1,144	3,553	4,417	6,437	7,868	11,545	7,780	9.40
Buildings with Cooking .....	17,861	Q	502	1,241	1,956	2,538	5,822	5,686	13.67
Buildings with Manufacturing .....	2,701	Q	Q	Q	521	535	922	389	31.27
<b>Workers (main shift)</b>									
Less than 5 .....	8,893	1,593	2,251	1,240	1,121	927	622	Q	16.19
5 to 9 .....	4,805	Q	1,036	1,076	1,096	759	Q	Q	14.56
10 to 19 .....	5,693	Q	640	1,399	1,508	772	Q	Q	17.14
20 to 49 .....	8,499	Q	268	1,092	2,076	3,006	1,724	Q	17.85
50 to 99 .....	6,220	Q	Q	Q	760	2,040	2,541	Q	16.27
100 or More .....	13,302	Q	Q	Q	Q	907	6,098	5,688	14.66
<b>Weekly Operating Hours</b>									
39 or Fewer .....	3,520	588	504	503	914	570	Q	Q	18.62
40 to 48 .....	10,503	842	1,394	1,124	1,792	2,068	2,494	788	16.87
49 to 60 .....	9,442	323	1,289	1,314	1,344	1,562	2,408	1,201	15.54
61 to 84 .....	9,112	192	557	743	1,261	1,556	2,995	1,807	18.20
85 to 167 .....	6,195	Q	413	719	845	1,324	1,855	930	21.23
Open Continuously .....	8,640	276	253	590	772	1,328	2,104	3,317	22.28
<b>Ownership and Occupancy</b>									
Nongovernment Owned .....	35,972	2,079	3,798	4,089	5,285	6,256	8,232	6,232	10.02
Owner Occupied .....	26,674	1,433	2,969	3,325	3,994	4,634	5,854	4,465	11.30
Single Establishment .....	20,431	1,347	2,521	3,001	3,307	3,857	4,018	2,381	12.90
Multiple Establishment .....	6,243	Q	448	325	687	778	1,836	2,084	24.55
Nonowner Occupied .....	8,556	460	766	705	1,210	1,495	2,280	1,639	18.51
Single Establishment .....	4,135	296	381	451	375	520	910	1,201	24.68
Multiple Establishment .....	4,421	Q	385	Q	835	975	1,370	438	25.72
Vacant .....	741	Q	Q	Q	Q	Q	Q	Q	48.25
Government Owned .....	11,440	251	612	905	1,643	2,153	3,924	1,952	16.59
<b>Space-Heating Energy Source</b>									
Electricity .....	18,925	420	1,294	1,776	2,658	3,269	5,142	4,366	12.66
Electricity Main .....	11,546	295	782	984	1,789	1,936	2,910	2,850	14.83
Electricity Secondary .....	7,378	Q	512	792	868	1,333	2,233	1,515	22.74
Other Excluding Electricity .....	25,571	1,161	2,812	3,024	4,021	4,737	6,488	3,328	11.38
Building Not Heated .....	2,916	749	305	193	Q	Q	Q	Q	32.82
<b>Main Space-Heating Energy Source</b>									
Electricity .....	11,546	295	782	984	1,789	1,936	2,910	2,850	14.83
Natural Gas .....	24,950	858	2,529	3,083	3,855	4,889	6,718	3,018	12.66
Fuel Oil .....	3,016	233	462	341	515	549	610	Q	28.50
District Heat .....	3,836	Q	Q	Q	372	530	1,246	1,361	25.82
Propane .....	594	Q	Q	Q	Q	Q	Q	Q	45.31
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.28. Peak Electricity Demand Category, Floorspace, 1992 (Continued)**  
(Million Square Feet)

Building Characteristics	Demand-Metered Buildings	10 kW or Less	11 to 25 kW	26 to 50 kW	51 to 100 kW	101 to 250 kW	251 to 1,000 kW	Over 1,000 kW	RSE Row Factor
	RSE Column Factor:	0.5	1.5	1.1	1.0	1.0	0.9	1.0	
<b>Replacement Energy Source for Main Heating</b>									
Electricity Only .....	1,621	Q	380	372	319	Q	Q	Q	24.69
Natural Gas Only .....	1,401	Q	269	Q	247	Q	Q	Q	31.49
Fuel Oil Only .....	3,946	Q	Q	187	460	335	1,180	1,268	24.93
Propane Only .....	1,614	Q	184	346	Q	Q	Q	Q	27.24
Any Other Single Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source .....	596	Q	Q	Q	Q	Q	Q	Q	44.80
No Replacement Energy Source .....	34,973	1,158	2,684	3,501	5,336	6,976	9,322	5,996	10.28
Building Not Heated .....	2,916	749	305	193	Q	Q	Q	Q	32.82
<b>Cooling Energy Source</b>									
Electricity .....	40,313	1,071	3,425	4,291	5,981	7,197	10,936	7,412	9.09
Other Excluding Electricity .....	1,804	Q	161	Q	Q	328	402	626	35.63
A/C Not Performed .....	5,295	1,219	823	570	834	885	Q	Q	22.54
<b>Water-Heating Energy Source</b>									
Electricity .....	18,572	484	1,505	2,185	2,758	3,245	4,549	3,846	12.27
Other Excluding Electricity .....	24,173	661	2,048	2,232	3,679	4,623	6,996	3,934	12.58
Water Heating Not Performed .....	4,667	1,186	857	577	492	541	Q	Q	23.80
<b>Cooking Energy Source</b>									
Electricity .....	9,780	Q	190	472	643	1,418	3,540	3,458	17.50
Other Excluding Electricity .....	8,081	Q	312	769	1,312	1,120	2,282	2,228	19.99
Cooking Not Performed .....	29,550	2,213	3,908	3,753	4,973	5,871	6,334	2,498	11.30
<b>Percent of Floorspace Heated</b>									
Not Heated .....	2,916	749	305	193	Q	Q	Q	Q	32.82
1 to 50 .....	7,488	514	1,268	976	1,255	1,004	1,621	850	21.81
51 to 99 .....	7,411	153	506	756	1,090	1,246	2,216	1,444	21.27
100 .....	29,596	914	2,332	3,068	4,334	5,755	7,794	5,399	10.57
<b>Percent of Floorspace Cooled</b>									
Not Cooled .....	5,295	1,219	823	570	834	885	Q	Q	22.54
1 to 50 .....	15,200	590	1,725	2,202	2,425	3,059	3,843	1,356	14.17
51 to 99 .....	10,193	158	670	701	1,225	1,693	3,096	2,650	17.98
100 .....	16,724	363	1,191	1,520	2,445	2,773	4,399	4,033	13.75
<b>Percent Lit when Open</b>									
Not Lit .....	776	239	Q	Q	Q	Q	Q	Q	29.15
1 to 50 .....	5,901	728	1,324	931	794	787	1,257	Q	22.51
51 to 99 .....	10,641	311	816	1,036	1,474	2,008	2,463	2,534	15.45
100 .....	30,093	1,053	2,158	2,971	4,606	5,499	8,365	5,442	10.55
<b>Percent Lit when Closed</b>									
Not Lit .....	23,145	1,759	2,638	2,535	3,400	3,818	4,980	4,017	12.11
1 to 50 .....	22,934	553	1,699	2,358	3,378	4,289	6,794	3,862	12.41
51 to 99 .....	790	Q	Q	Q	Q	Q	Q	Q	44.79
100 .....	543	Q	Q	Q	Q	Q	Q	Q	53.13
<b>Lighting Equipment (more than one may apply)</b>									
Incandescent .....	27,508	924	2,667	2,688	4,428	4,347	7,274	5,181	10.36
Standard Fluorescent .....	44,880	1,654	4,157	4,782	6,638	8,238	11,467	7,944	8.91
Compact Fluorescent .....	6,173	Q	383	281	563	841	1,948	2,075	21.19
High-Intensity Discharge .....	14,369	Q	342	575	1,384	2,462	5,341	3,834	17.17
Other .....	1,060	Q	Q	Q	Q	Q	Q	Q	44.08

See footnotes at end of table.

**Table 3.28. Peak Electricity Demand Category, Floorspace, 1992 (Continued)**  
(Million Square Feet)

Building Characteristics	Demand-Metered Buildings	10 kW or Less	11 to 25 kW	26 to 50 kW	51 to 100 kW	101 to 250 kW	251 to 1,000 kW	Over 1,000 kW	RSE Row Factor
	RSE Column Factor:	0.5	1.5	1.1	1.0	1.0	0.9	1.0	
<b>Commercial Refrigeration Equipment (more than one may apply)</b>									
Any Equipment .....	19,429	183	652	1,260	2,115	2,943	6,522	5,754	13.03
Walk-in Units .....	14,850	Q	330	820	1,318	2,081	5,044	5,127	14.65
Cases and Cabinets .....	15,822	137	433	966	1,598	2,438	5,434	4,816	13.90
None .....	27,982	2,147	3,758	3,734	4,813	5,467	5,634	2,430	12.02
<b>Personal Computers and/or Computer Terminals</b>									
1 to 4 .....	8,439	319	1,188	1,833	2,323	1,495	1,138	Q	15.40
5 to 9 .....	4,438	114	411	601	748	1,140	1,329	Q	19.91
10 to 19 .....	4,735	Q	Q	624	862	1,388	1,001	Q	23.84
20 to 49 .....	6,405	Q	Q	244	991	1,828	2,711	549	23.63
50 or More .....	12,112	Q	Q	Q	497	1,112	4,988	5,255	17.03
<b>Annual Consumption (kilowatthours)</b>									
10,000 or Less .....	1,156	903	249	Q	Q	Q	Q	Q	21.77
10,001 to 50,000 .....	6,210	1,399	3,242	1,050	345	Q	Q	Q	18.97
50,001 to 100,000 .....	4,398	Q	802	2,334	996	Q	Q	Q	15.94
100,001 to 500,000 .....	12,316	Q	Q	1,605	5,435	4,703	448	Q	12.10
500,001 to 1,000,000 .....	5,559	Q	Q	Q	Q	3,300	1,998	Q	19.26
1,000,001 to 5,000,000 .....	11,274	Q	Q	Q	Q	Q	9,385	1,705	15.71
Over 5,000,000 .....	6,498	Q	Q	Q	Q	Q	Q	6,249	15.90
<b>Season of Peak Electricity Demand</b>									
Summer .....	29,289	994	2,374	3,101	4,208	4,716	7,851	6,045	11.84
Winter .....	15,679	981	1,753	1,516	2,406	3,350	3,697	1,974	14.63
Summer and Winter .....	2,444	355	283	377	314	Q	607	Q	24.10
<b>Building Generates Electricity</b>									
Yes .....	8,618	Q	Q	Q	363	745	3,396	3,742	15.26
No .....	38,794	2,278	4,381	4,703	6,566	7,665	8,759	4,442	9.97

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.29. Distribution of Peak Watts per Square Foot and Load Factors, 1992**

Building Characteristics	All Demand-Metered Buildings			Peak Watts per Square Foot			Load Factor			RSE Row Factor
	Number of Buildings (thousand)	Total Floorspace (million square feet)	Total Electricity Consumed (billion kWh)	25th Percentile	Median	75th Percentile	25th Percentile	Median	75th Percentile	
	0.9	1.0	1.1	NF	NF	NF	NF	NF	NF	
<b>All Buildings</b> .....	2,375	47,412	629	2.32	4.67	8.68	0.159	0.243	0.336	5.39
<b>Building Floorspace (square feet)</b>										
1,001 to 5,000 .....	1,075	3,008	64	3.60	6.50	13.00	0.132	0.220	0.320	7.64
5,001 to 10,000 .....	500	3,720	55	2.16	4.13	7.50	0.160	0.237	0.317	8.06
10,001 to 25,000 .....	411	6,679	81	1.80	3.53	5.76	0.170	0.258	0.336	8.33
25,001 to 50,000 .....	210	7,496	90	1.38	2.68	5.61	0.208	0.273	0.372	9.70
50,001 to 100,000 .....	94	6,583	83	1.76	3.33	5.48	0.226	0.333	0.417	11.94
100,001 to 200,000 .....	58	7,948	89	1.12	2.89	4.80	0.275	0.363	0.472	12.49
200,001 to 500,000 .....	21	6,157	87	1.22	2.55	4.80	0.345	0.430	0.546	14.81
Over 500,000 .....	8	5,822	80	1.97	3.88	4.92	0.318	0.449	0.522	20.89
<b>Principal Building Activity</b>										
Education .....	213	6,637	56	2.39	4.52	7.97	0.134	0.177	0.242	9.45
Food Sales .....	90	540	27	7.93	12.25	17.78	0.412	0.514	0.587	18.10
Food Service .....	195	1,220	34	6.00	11.43	18.75	0.259	0.319	0.371	10.55
Health Care .....	36	1,486	35	3.13	4.47	8.13	0.166	0.274	0.364	14.47
Lodging .....	104	2,413	50	2.62	4.90	8.50	0.268	0.333	0.436	17.81
Mercantile and Service .....	573	7,516	92	2.31	4.25	7.90	0.189	0.253	0.337	8.45
Office .....	408	9,473	178	3.24	5.19	8.00	0.202	0.258	0.332	9.45
Parking Garage .....	13	1,496	Q	1.77	5.50	8.89	0.102	0.256	0.394	40.18
Public Assembly .....	154	3,518	44	2.38	4.47	7.43	0.094	0.163	0.254	12.22
Public Order and Safety .....	40	534	5	2.15	3.21	8.10	0.205	0.299	0.346	29.55
Religious Worship .....	103	1,828	5	2.39	4.32	8.00	0.056	0.084	0.123	15.57
Warehouse and Storage .....	325	8,019	62	1.21	2.57	5.00	0.139	0.215	0.309	15.10
Other .....	38	793	19	2.07	6.33	11.88	0.121	0.369	0.560	20.02
Vacant .....	84	1,938	12	1.00	1.88	4.88	0.081	0.167	0.263	18.53
<b>Year Constructed</b>										
1899 or Before .....	55	906	9	1.00	2.89	7.71	0.167	0.259	0.332	19.93
1900 to 1919 .....	122	2,113	15	1.43	3.33	6.00	0.167	0.233	0.315	18.08
1920 to 1945 .....	292	4,993	45	1.64	3.25	6.21	0.154	0.218	0.293	14.12
1946 to 1959 .....	423	7,217	80	2.33	4.67	8.00	0.147	0.228	0.321	11.30
1960 to 1969 .....	399	8,975	124	2.38	4.52	7.90	0.165	0.254	0.337	9.48
1970 to 1979 .....	537	10,290	153	2.50	5.13	10.63	0.149	0.256	0.347	8.02
1980 to 1989 .....	480	10,929	174	3.25	5.61	10.67	0.190	0.263	0.376	8.90
1990 to 1992 .....	67	1,987	28	2.23	4.64	7.00	0.137	0.210	0.334	16.40
<b>Census Region and Division</b>										
Northeast .....	469	9,609	94	1.90	3.51	6.50	0.184	0.253	0.329	8.24
New England .....	114	2,291	24	2.08	3.39	7.19	0.173	0.269	0.363	26.07
Middle Atlantic .....	354	7,318	71	1.82	3.51	6.33	0.185	0.247	0.324	12.33
Midwest .....	447	10,889	142	1.98	4.00	7.20	0.177	0.260	0.356	10.81
East North Central .....	309	7,147	88	1.91	3.90	6.70	0.163	0.247	0.348	15.53
West North Central .....	138	3,743	53	2.02	4.09	8.63	0.216	0.289	0.372	14.29
South .....	1,054	18,395	257	2.71	5.00	9.39	0.137	0.225	0.331	9.37
South Atlantic .....	442	8,646	119	2.44	5.19	10.25	0.131	0.220	0.332	11.76
East South Central .....	184	3,572	57	2.33	4.90	10.30	0.192	0.260	0.376	27.19
West South Central .....	428	6,177	81	3.04	5.06	8.40	0.132	0.213	0.312	15.70
West .....	405	8,518	136	3.20	5.60	11.45	0.163	0.254	0.351	13.08
Mountain .....	141	2,228	41	3.71	5.83	10.67	0.149	0.247	0.340	21.83
Pacific .....	264	6,290	95	2.87	5.40	11.61	0.167	0.266	0.351	13.82
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and --										
More than 7,000 HDD .....	142	3,458	47	2.00	3.85	8.30	0.172	0.276	0.374	21.19
5,500-7,000 HDD .....	611	13,401	152	2.00	3.92	6.92	0.177	0.253	0.333	11.22
4,000-5,499 HDD .....	435	9,594	121	2.29	5.00	9.65	0.167	0.254	0.344	16.00
Fewer than 4,000 HDD .....	510	10,934	169	2.73	5.31	10.30	0.162	0.255	0.350	15.65
More than 2,000 CDD and --										
Fewer than 4,000 HDD .....	678	10,025	139	2.71	5.00	9.17	0.137	0.215	0.316	13.63

See footnotes at end of table.

**Table 3.29. Distribution of Peak Watts per Square Foot and Load Factors, 1992 (Continued)**

Building Characteristics	All Demand-Metered Buildings			Peak Watts per Square Foot			Load Factor			RSE Row Factor
	Number of Buildings (thousand)	Total Floorspace (million square feet)	Total Electricity Consumed (billion kWh)	25th Percentile	Median	75th Percentile	25th Percentile	Median	75th Percentile	
RSE Column Factor:	0.9	1.0	1.1	NF	NF	NF	NF	NF	NF	
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	2,375	47,412	629	2.32	4.67	8.68	0.159	0.243	0.336	5.39
Natural Gas .....	1,436	32,198	421	2.33	4.59	8.46	0.176	0.256	0.343	6.47
Fuel Oil .....	286	10,356	168	1.99	3.25	6.21	0.177	0.265	0.362	12.16
District Heat .....	72	4,152	68	2.21	3.57	5.92	0.183	0.314	0.482	25.84
District Chilled Water .....	22	1,702	32	2.71	4.01	8.07	0.177	0.369	0.504	20.62
Propane .....	151	2,328	33	2.50	5.45	9.14	0.161	0.233	0.318	17.63
Any Other .....	56	852	8	1.60	3.57	7.46	0.091	0.207	0.293	22.79
<b>Energy End Uses (more than one may apply)</b>										
Heated Buildings .....	2,204	44,495	600	2.50	4.80	9.02	0.163	0.248	0.338	5.28
Buildings with A/C .....	1,971	42,117	592	2.75	5.13	9.50	0.169	0.255	0.344	5.39
Buildings with Water Heating .....	1,929	42,745	597	2.62	5.00	9.34	0.177	0.260	0.351	5.42
Buildings with Cooking .....	509	17,861	284	3.25	6.22	14.93	0.199	0.312	0.417	6.90
Buildings with Manufacturing .....	77	2,701	31	2.18	4.31	7.71	0.167	0.247	0.331	14.96
<b>Workers (main shift)</b>										
Less than 5 .....	1,039	8,893	81	2.00	4.62	8.57	0.113	0.198	0.296	9.41
5 to 9 .....	497	4,805	49	2.50	5.16	10.45	0.179	0.236	0.318	7.82
10 to 19 .....	357	5,693	71	2.67	4.94	8.38	0.193	0.265	0.339	12.17
20 to 49 .....	298	8,499	107	2.39	4.48	7.53	0.226	0.289	0.383	9.56
50 to 99 .....	101	6,220	86	2.32	4.33	6.50	0.253	0.330	0.429	11.08
100 or More .....	84	13,302	235	2.79	4.80	7.07	0.334	0.402	0.525	10.05
<b>Weekly Operating Hours</b>										
39 or Fewer .....	301	3,520	17	1.75	3.56	7.25	0.070	0.107	0.206	10.98
40 to 48 .....	674	10,503	112	2.17	4.17	7.27	0.150	0.215	0.274	9.61
49 to 60 .....	473	9,442	102	2.21	4.38	7.03	0.167	0.234	0.302	7.02
61 to 84 .....	380	9,112	117	3.08	5.39	10.48	0.204	0.269	0.354	10.13
85 to 167 .....	315	6,195	102	3.32	7.00	15.56	0.267	0.352	0.468	9.72
Open Continuously .....	231	8,640	179	2.38	5.00	11.00	0.272	0.356	0.500	10.06
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	1,975	35,972	499	2.33	4.83	8.96	0.160	0.248	0.338	5.76
Owner Occupied .....	1,539	26,674	392	2.50	5.00	9.52	0.162	0.254	0.344	5.79
Single Establishment .....	1,383	20,431	313	2.59	5.16	10.00	0.160	0.253	0.348	6.58
Multiple Establishment .....	155	6,243	79	2.00	4.17	7.27	0.193	0.259	0.327	13.14
Nonowner Occupied .....	393	8,556	104	2.20	4.33	8.00	0.174	0.247	0.333	10.71
Single Establishment .....	249	4,135	55	2.50	5.19	8.89	0.150	0.238	0.333	13.86
Multiple Establishment .....	144	4,421	49	1.89	3.33	6.08	0.202	0.267	0.330	15.49
Vacant .....	43	741	Q	0.67	2.00	5.50	0.069	0.101	0.152	26.26
Government Owned .....	401	11,440	130	2.27	3.98	7.14	0.152	0.220	0.320	7.90
<b>Space-Heating Energy Source</b>										
Electricity .....	879	18,925	286	3.20	5.71	11.27	0.163	0.254	0.351	7.18
Electricity Main .....	642	11,546	196	3.88	6.67	13.27	0.167	0.255	0.362	8.11
Electricity Secondary .....	237	7,378	91	2.18	4.08	6.70	0.155	0.237	0.332	12.88
Other Excluding Electricity .....	1,325	25,571	314	2.20	4.17	8.00	0.163	0.245	0.333	6.66
Building Not Heated .....	171	2,916	29	0.69	2.25	5.83	0.104	0.196	0.302	26.74
<b>Main Space-Heating Energy Source</b>										
Electricity .....	642	11,546	196	3.88	6.67	13.27	0.167	0.255	0.362	8.11
Natural Gas .....	1,188	24,950	305	2.29	4.33	8.00	0.167	0.249	0.333	7.61
Fuel Oil .....	182	3,016	26	1.90	3.20	5.59	0.147	0.234	0.314	18.93
District Heat .....	67	3,836	62	2.18	3.53	5.50	0.183	0.314	0.473	17.67
Propane .....	85	594	6	2.86	5.56	10.00	0.129	0.210	0.244	24.25
Wood .....	21	99	1	1.63	3.33	9.60	0.091	0.272	0.319	31.91
Any Other .....	Q	320	2	1.00	2.64	3.57	0.106	0.162	0.260	38.42

See footnotes at end of table.

**Table 3.29. Distribution of Peak Watts per Square Foot and Load Factors, 1992 (Continued)**

Building Characteristics	All Demand-Metered Buildings			Peak Watts per Square Foot			Load Factor			RSE Row Factor
	Number of Buildings (thousand)	Total Floorspace (million square feet)	Total Electricity Consumed (billion kWh)	25th Percentile	Median	75th Percentile	25th Percentile	Median	75th Percentile	
RSE Column Factor:	0.9	1.0	1.1	NF	NF	NF	NF	NF	NF	
<b>Replacement Energy Source for Main Heating</b>										
Electricity Only .....	165	1,621	16	2.37	4.52	8.40	0.149	0.232	0.303	13.52
Natural Gas Only .....	109	1,401	17	2.00	4.32	10.18	0.178	0.257	0.337	18.99
Fuel Oil Only .....	91	3,946	65	1.67	3.33	7.90	0.201	0.265	0.352	15.79
Propane Only .....	105	1,614	18	2.31	4.40	7.50	0.135	0.224	0.330	17.54
Any Other Single Energy Source .....	16	344	3	1.99	4.00	4.55	0.163	0.282	0.396	40.81
More than One Energy Source .....	47	596	7	2.17	4.17	8.13	0.149	0.245	0.319	24.80
No Replacement Energy Source .....	1,671	34,973	474	2.67	5.00	9.37	0.167	0.249	0.340	5.99
Building Not Heated .....	171	2,916	29	0.69	2.25	5.83	0.104	0.196	0.302	26.74
<b>Cooling Energy Source</b>										
Electricity .....	1,914	40,313	562	2.75	5.19	9.54	0.168	0.254	0.343	5.41
Other Excluding Electricity .....	57	1,804	30	2.87	4.33	6.13	0.195	0.263	0.388	19.32
A/C Not Performed .....	404	5,295	37	1.11	2.50	5.17	0.110	0.199	0.292	16.52
<b>Water-Heating Energy Source</b>										
Electricity .....	915	18,572	269	2.92	5.50	10.49	0.165	0.248	0.344	6.82
Other Excluding Electricity .....	1,013	24,173	329	2.45	4.56	8.57	0.190	0.266	0.354	7.11
Water Heating Not Performed .....	447	4,667	32	1.36	3.33	6.52	0.104	0.183	0.258	18.35
<b>Cooking Energy Source</b>										
Electricity .....	250	9,780	164	3.53	6.44	15.42	0.171	0.314	0.433	8.60
Other Excluding Electricity .....	258	8,081	120	3.04	5.92	14.05	0.217	0.309	0.400	9.86
Cooking Not Performed .....	1,866	29,550	345	2.16	4.32	7.60	0.150	0.232	0.317	6.37
<b>Percent of Floorspace Heated</b>										
Not Heated .....	171	2,916	29	1.90	4.28	5.78	0.160	0.237	0.309	26.74
1 to 50 .....	330	7,488	53	2.30	5.52	11.08	0.220	0.275	0.377	13.29
51 to 99 .....	323	7,411	103	2.33	4.69	8.70	0.156	0.243	0.336	9.62
100 .....	1,550	29,596	444	0.69	2.25	5.83	0.104	0.196	0.302	5.91
<b>Percent of Floorspace Cooled</b>										
Not Cooled .....	404	5,295	37	1.46	2.92	5.52	0.140	0.222	0.299	16.52
1 to 50 .....	632	15,200	107	2.88	4.94	9.58	0.192	0.264	0.376	7.05
51 to 99 .....	375	10,193	175	2.81	5.24	9.93	0.163	0.250	0.339	9.18
100 .....	964	16,724	310	1.11	2.50	5.17	0.110	0.199	0.292	6.97
<b>Percent Lit when Open</b>										
Not Lit .....	60	776	3	1.78	2.99	5.56	0.167	0.244	0.313	30.56
1 to 50 .....	376	5,901	37	3.27	5.22	9.16	0.196	0.283	0.400	14.57
51 to 99 .....	443	10,641	131	4.00	6.67	12.67	0.161	0.248	0.348	6.61
100 .....	1,496	30,093	458	0.69	2.00	4.21	0.073	0.094	0.203	6.34
<b>Percent Lit when Closed</b>										
Not Lit .....	1,322	23,145	310	1.43	3.13	5.45	0.121	0.196	0.283	6.76
1 to 50 .....	990	22,934	297	2.39	4.55	8.38	0.192	0.259	0.336	6.76
51 to 99 .....	23	790	13	2.75	5.37	10.00	0.167	0.255	0.354	29.75
100 .....	40	543	9	2.13	4.44	8.38	0.130	0.216	0.319	27.36
<b>Lighting Equipment (more than one may apply)</b>										
Incandescent .....	1,265	27,508	389	2.65	5.00	9.33	0.198	0.265	0.356	5.56
Standard Fluorescent .....	2,193	44,880	601	3.62	7.40	11.66	0.264	0.419	0.525	5.24
Compact Fluorescent .....	132	6,173	110	3.88	5.64	8.78	0.267	0.340	0.452	11.35
High-Intensity Discharge .....	244	14,369	183	2.50	5.00	9.09	0.161	0.249	0.340	9.13
Other .....	39	1,060	16	2.44	4.75	8.95	0.165	0.248	0.339	28.86

See footnotes at end of table.

**Table 3.29. Distribution of Peak Watts per Square Foot and Load Factors, 1992 (Continued)**

Building Characteristics	All Demand-Metered Buildings			Peak Watts per Square Foot			Load Factor			RSE Row Factor
	Number of Buildings (thousand)	Total Floorspace (million square feet)	Total Electricity Consumed (billion kWh)	25th Percentile	Median	75th Percentile	25th Percentile	Median	75th Percentile	
	0.9	1.0	1.1	NF	NF	NF	NF	NF	NF	
<b>Commercial Refrigeration Equipment (more than one may apply)</b>										
Any Equipment .....	634	19,429	326	2.33	5.22	7.20	0.196	0.287	0.388	6.22
Walk-in Units .....	431	14,850	267	1.97	3.60	6.50	0.211	0.286	0.384	6.97
Cases and Cabinets .....	513	15,822	275	3.75	5.48	9.78	0.154	0.263	0.360	6.55
None .....	1,741	27,982	303	3.53	6.96	15.00	0.232	0.332	0.442	6.92
<b>Personal Computers and/or Computer Terminals</b>										
1 to 4 .....	625	8,439	94	3.85	8.97	17.01	0.264	0.354	0.482	7.44
5 to 9 .....	224	4,438	59	3.88	7.50	15.56	0.255	0.348	0.468	11.09
10 to 19 .....	153	4,735	60	2.05	4.17	7.24	0.140	0.221	0.298	11.75
20 to 49 .....	130	6,405	75	2.50	4.71	9.75	0.171	0.248	0.331	10.79
50 or More .....	96	12,112	223	2.68	4.29	7.22	0.222	0.280	0.355	10.33
<b>Annual Consumption (kilowatthours)</b>										
10,000 or Less .....	265	1,156	2	2.17	4.29	6.67	0.202	0.272	0.369	14.69
10,001 to 50,000 .....	834	6,210	22	2.75	4.53	6.70	0.188	0.287	0.384	8.33
50,001 to 100,000 .....	404	4,398	29	2.80	4.80	7.25	0.290	0.380	0.477	8.94
100,001 to 500,000 .....	646	12,316	141	0.80	1.89	3.57	0.071	0.103	0.195	5.51
500,001 to 1,000,000 .....	103	5,559	70	2.00	3.88	6.90	0.132	0.202	0.254	12.12
1,000,001 to 5,000,000 .....	108	11,274	208	2.71	5.33	9.50	0.184	0.257	0.330	10.20
Over 5,000,000 .....	15	6,498	157	3.59	6.50	13.91	0.246	0.314	0.428	14.31
<b>Peak Electricity Demand (kilowatts)</b>										
10 or Less .....	434	2,330	6	3.48	6.14	10.90	0.297	0.372	0.474	13.94
11 to 25 .....	635	4,410	23	4.11	6.47	12.64	0.339	0.420	0.549	8.19
26 to 50 .....	500	4,994	45	4.40	5.24	9.23	0.405	0.499	0.590	6.90
51 to 100 .....	389	6,929	74	0.88	1.88	3.33	0.113	0.203	0.268	7.88
101 to 250 .....	246	8,410	103	2.35	4.25	7.14	0.149	0.223	0.291	8.24
251 to 1,000 .....	141	12,155	198	3.24	6.00	11.60	0.178	0.262	0.350	9.72
Over 1,000 .....	30	8,184	181	3.41	6.27	13.15	0.167	0.269	0.363	14.63
<b>Season of Peak Electricity Demand</b>										
Summer .....	1,342	29,289	414	3.72	6.46	12.67	0.206	0.302	0.384	7.10
Winter .....	854	15,679	187	4.18	6.73	15.71	0.225	0.359	0.471	8.64
Summer and Winter .....	179	2,444	28	5.00	11.18	50.72	0.056	0.344	0.481	13.29
<b>Building Generates Electricity</b>										
Yes .....	109	8,618	164	2.53	5.00	8.89	0.176	0.260	0.352	9.68
No .....	2,266	38,794	465	2.24	4.47	8.73	0.137	0.219	0.310	5.77

NF = No applicable RSE column factor.

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. • 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. • 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.



**Table 3.30. Total Natural Gas Consumption and Expenditures, 1992**

Building Characteristics	All Buildings Using Natural Gas			Natural Gas Consumption		Natural Gas Expenditures	RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (billion cubic feet)	Total (million dollars)	
	RSE Column Factor:	0.9	0.9	0.8	1.3	1.3	
<b>All Buildings</b> .....	2,657	44,994	16.9	2,174	2,113	9,901	5.80
<b>Building Floorspace (square feet)</b>							
1,001 to 5,000 .....	1,325	3,752	2.8	321	312	1,716	6.39
5,001 to 10,000 .....	573	4,262	7.4	251	244	1,342	5.51
10,001 to 25,000 .....	417	6,835	16.4	438	426	1,882	7.40
25,001 to 50,000 .....	182	6,521	35.9	324	314	1,559	10.29
50,001 to 100,000 .....	83	5,735	69.2	255	248	1,184	8.12
100,001 to 200,000 .....	52	7,134	137.1	206	200	893	7.28
200,001 to 500,000 .....	18	5,600	305.1	215	209	742	13.40
Over 500,000 .....	6	5,155	847.5	165	160	582	17.21
<b>Principal Building Activity</b>							
Education .....	197	6,856	34.7	291	283	1,271	11.07
Food Sales .....	70	509	7.3	24	23	134	20.10
Food Service .....	196	1,145	5.8	157	152	818	11.96
Health Care .....	45	1,544	34.1	189	184	662	18.65
Lodging .....	98	2,233	22.8	193	187	929	16.48
Mercantile and Service .....	762	9,357	12.3	381	370	1,899	10.72
Office .....	474	7,846	16.6	388	377	1,618	13.37
Parking Garage .....	11	Q	Q	9	9	43	31.62
Public Assembly .....	169	2,536	15.0	100	97	490	13.43
Public Order and Safety .....	37	582	15.7	37	36	173	25.79
Religious Worship .....	209	2,899	13.9	65	63	332	12.28
Warehouse and Storage .....	264	6,333	23.9	196	190	939	12.50
Other .....	29	778	27.3	84	82	302	27.00
Vacant .....	95	2,008	21.2	61	59	290	22.48
<b>Year Constructed</b>							
1899 or Before .....	110	1,237	11.2	62	60	281	16.44
1900 to 1919 .....	178	2,785	15.7	102	99	516	14.52
1920 to 1945 .....	436	5,735	13.1	310	301	1,442	13.83
1946 to 1959 .....	516	7,300	14.1	355	345	1,665	12.59
1960 to 1969 .....	463	8,871	19.2	426	414	1,903	10.21
1970 to 1979 .....	513	9,217	18.0	528	513	2,187	10.75
1980 to 1989 .....	387	8,222	21.2	345	335	1,668	9.44
1990 to 1992 .....	53	1,625	30.8	48	47	239	17.67
<b>Census Region and Division</b>							
Northeast .....	370	8,559	23.1	354	344	2,014	12.51
New England .....	63	1,761	28.0	75	72	476	26.22
Middle Atlantic .....	307	6,798	22.1	280	272	1,538	14.62
Midwest .....	843	13,775	16.3	747	726	3,011	8.22
East North Central .....	557	8,646	15.5	516	501	2,076	11.06
West North Central .....	287	5,129	17.9	231	225	935	15.57
South .....	882	13,361	15.1	697	677	2,998	12.71
South Atlantic .....	185	4,744	25.7	240	233	1,147	27.10
East South Central .....	223	3,248	14.6	159	154	787	19.96
West South Central .....	474	5,369	11.3	299	290	1,064	19.03
West .....	562	9,299	16.6	376	365	1,878	10.67
Mountain .....	198	2,560	12.9	137	133	559	16.86
Pacific .....	364	6,738	18.5	239	232	1,319	12.61
<b>Climate Zone: 45-Year Average</b>							
Fewer than 2,000 CDD and --							
More than 7,000 HDD .....	229	3,686	16.1	189	184	790	14.62
5,500-7,000 HDD .....	763	13,718	18.0	746	725	3,264	8.41
4,000-5,499 HDD .....	480	10,497	21.9	447	434	2,158	17.26
Fewer than 4,000 HDD .....	647	11,008	17.0	469	456	2,386	14.97
More than 2,000 CDD and --							
Fewer than 4,000 HDD .....	539	6,084	11.3	324	314	1,304	17.17

See footnotes at end of table.

**Table 3.30. Total Natural Gas Consumption and Expenditures, 1992 (Continued)**

Building Characteristics	All Buildings Using Natural Gas			Natural Gas Consumption		Natural Gas Expenditures	RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (billion cubic feet)	Total (million dollars)	
	0.9	0.9	0.8	1.3	1.3	1.1	
<b>Energy Sources (more than one may apply)</b>							
Electricity .....	2,655	44,987	16.9	2,174	2,113	9,900	6.05
Natural Gas .....	2,657	44,994	16.9	2,174	2,113	9,901	5.80
Fuel Oil .....	130	8,426	64.9	410	399	1,623	13.28
District Heat .....	36	2,677	75.1	116	113	429	24.62
District Chilled Water .....	16	923	57.8	45	44	178	24.05
Propane .....	19	797	42.5	41	40	201	31.74
Any Other .....	43	788	18.2	18	17	100	22.57
<b>Energy End Uses (more than one may apply)</b>							
Heated Buildings .....	2,619	44,527	17.0	2,159	2,098	9,815	5.71
Buildings with A/C .....	2,254	41,324	18.3	1,987	1,931	8,969	6.13
Buildings with Water Heating .....	2,324	43,047	18.5	2,118	2,058	9,582	5.90
Buildings with Cooking .....	531	18,458	34.7	942	915	4,103	7.61
Buildings with Manufacturing .....	81	2,528	31.1	157	153	678	20.35
<b>Workers (main shift)</b>							
Less than 5 .....	1,258	8,051	6.4	331	322	1,778	7.72
5 to 9 .....	559	4,500	8.0	299	291	1,244	10.77
10 to 19 .....	383	5,473	14.3	278	270	1,413	11.39
20 to 49 .....	300	8,357	27.9	474	460	2,302	10.67
50 to 99 .....	87	5,974	68.5	280	272	1,206	14.20
100 or More .....	70	12,638	181.1	513	498	1,958	9.32
<b>Weekly Operating Hours</b>							
39 or Fewer .....	404	4,019	10.0	151	147	731	12.46
40 to 48 .....	755	9,529	12.6	388	377	1,869	8.75
49 to 60 .....	597	9,553	16.0	406	395	1,888	9.80
61 to 84 .....	403	9,132	22.6	396	385	1,666	9.24
85 to 167 .....	299	6,509	21.8	312	303	1,521	11.27
Open Continuously .....	199	6,251	31.3	520	506	2,226	12.20
<b>Ownership and Occupancy</b>							
Nongovernment Owned .....	2,300	34,083	14.8	1,674	1,627	7,808	6.01
Owner Occupied .....	1,806	26,127	14.5	1,344	1,306	6,091	5.72
Single Establishment .....	1,597	19,619	12.3	1,167	1,134	5,236	6.24
Multiple Establishment .....	209	6,508	31.1	177	172	855	12.57
Nonowner Occupied .....	458	7,466	16.3	310	301	1,618	13.11
Single Establishment .....	261	2,869	11.0	170	166	895	20.80
Multiple Establishment .....	197	4,596	23.3	140	136	723	14.87
Vacant .....	35	490	13.8	20	19	99	33.06
Government Owned .....	357	10,910	30.6	500	486	2,094	9.96
<b>Predominant Exterior Wall Material</b>							
Masonry .....	1,945	34,286	17.6	1,654	1,607	7,734	6.30
Siding or Shingles .....	318	1,961	6.2	103	100	561	11.67
Metal Panels .....	292	3,449	11.8	240	233	851	15.78
Concrete Panels .....	50	3,557	70.8	127	124	528	16.49
Window Glass .....	27	1,024	38.6	30	29	133	20.56
Other .....	26	716	28.0	20	19	93	31.82
<b>Predominant Roof Material</b>							
Built-Up .....	1,039	21,288	20.5	997	969	4,610	8.04
Shingles (Not Wood) .....	752	6,511	8.7	329	320	1,682	8.37
Metal Surfacing .....	402	4,285	10.7	254	246	948	13.25
Synthetic or Rubber .....	267	9,326	34.9	445	432	1,908	10.07
Other .....	196	3,583	18.3	150	146	753	13.42

See footnotes at end of table.

**Table 3.30. Total Natural Gas Consumption and Expenditures, 1992 (Continued)**

Building Characteristics	All Buildings Using Natural Gas			Natural Gas Consumption		Natural Gas Expenditures	RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (billion cubic feet)	Total (million dollars)	
	0.9	0.9	0.8	1.3	1.3	1.1	
<b>Space-Heating Energy Source</b>							
Natural Gas .....	2,397	38,467	16.1	1,938	1,884	8,756	6.14
Natural Gas Main .....	2,269	35,129	15.5	1,822	1,770	8,277	6.36
Natural Gas Secondary .....	127	3,338	26.2	117	113	479	19.19
Other Excluding Natural Gas .....	222	6,059	27.3	220	214	1,059	10.39
Building Not Heated .....	38	467	12.2	Q	Q	Q	38.92
<b>Main Space-Heating Energy Source</b>							
Electricity .....	266	5,245	19.7	192	186	975	11.53
Natural Gas .....	2,269	35,129	15.5	1,822	1,770	8,277	6.36
Fuel Oil .....	37	1,262	34.2	15	15	99	21.67
District Heat .....	31	2,256	72.7	87	84	326	18.56
Propane .....	Q	Q	Q	Q	Q	Q	NF
Wood .....	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Main Heating</b>							
Electricity Only .....	278	2,096	7.5	157	152	537	16.51
Natural Gas Only .....	62	959	15.4	30	30	154	20.44
Fuel Oil Only .....	111	4,959	44.5	356	346	1,389	13.99
Propane Only .....	130	1,705	13.1	81	78	340	18.10
Any Other Single Energy Source .....	25	371	14.7	10	10	62	33.62
More than One Energy Source .....	62	691	11.1	40	39	209	23.56
No Replacement Energy Source .....	1,949	33,746	17.3	1,485	1,443	7,124	6.43
Building Not Heated .....	38	467	12.2	Q	Q	Q	38.92
<b>Cooling Energy Source</b>							
Natural Gas .....	106	1,906	17.9	186	181	782	20.13
Other Excluding Natural Gas .....	2,148	39,418	18.4	1,801	1,750	8,186	5.95
A/C Not Performed .....	402	3,670	9.1	187	182	932	12.16
<b>Water-Heating Energy Source</b>							
Natural Gas .....	1,643	29,950	18.2	1,644	1,598	7,620	6.75
Other Excluding Natural Gas .....	681	13,096	19.2	474	461	1,962	10.25
Water Heating Not Performed .....	333	1,947	5.8	56	55	319	9.69
<b>Cooking Energy Source</b>							
Natural Gas .....	430	15,204	35.3	816	793	3,562	8.03
Other Excluding Natural Gas .....	101	3,254	32.3	126	122	541	13.21
Cooking Not Performed .....	2,126	26,535	12.5	1,233	1,198	5,798	7.19
<b>Manufacturing Energy Source</b>							
Natural Gas .....	22	799	36.7	78	76	316	34.44
Other Excluding Natural Gas .....	60	1,729	29.0	80	77	362	21.83
Manufacturing Not Performed .....	2,575	42,465	16.5	2,017	1,960	9,224	5.99
<b>Percent of Floorspace Heated</b>							
Not Heated .....	38	467	12.2	Q	Q	Q	38.92
1 to 50 .....	377	7,186	19.0	175	170	871	15.76
51 to 99 .....	425	7,685	18.1	362	352	1,578	12.13
100 .....	1,816	29,656	16.3	1,622	1,576	7,367	6.32

See footnotes at end of table.

**Table 3.30. Total Natural Gas Consumption and Expenditures, 1992 (Continued)**

Building Characteristics	All Buildings Using Natural Gas			Natural Gas Consumption		Natural Gas Expenditures	RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (billion cubic feet)	Total (million dollars)	
	RSE Column Factor:	0.9	0.9	0.8	1.3	1.3	
<b>Heating Equipment (more than one may apply)</b>							
Heat Pumps .....	135	4,657	34.5	213	207	1,006	15.87
Furnaces .....	1,257	14,330	11.4	724	703	3,209	9.43
Individual Space Heaters .....	881	16,221	18.4	708	688	3,293	9.01
District Heat .....	35	2,679	76.5	135	131	474	20.18
Boilers .....	443	17,022	38.4	936	910	4,030	7.45
Packaged Heating Units .....	604	12,905	21.4	583	566	2,815	9.00
Other .....	23	678	29.2	Q	Q	Q	31.77
<b>Water-Heating Equipment (more than one may apply)</b>							
Centralized System .....	1,323	22,503	17.0	1,309	1,272	5,716	7.92
Distributed System .....	1,039	22,013	21.2	890	865	4,225	7.85
<b>Annual Consumption (hundred cubic feet)</b>							
1,000 or Less .....	834	5,311	6.4	44	43	328	8.78
1,001 to 5,000 .....	1,117	11,453	10.2	276	268	1,572	5.53
5,001 to 10,000 .....	329	5,663	17.2	235	229	1,232	6.82
10,001 to 25,000 .....	231	8,046	34.8	370	360	1,817	8.51
25,001 to 50,000 .....	84	5,522	65.6	287	279	1,448	11.53
50,001 to 100,000 .....	33	3,311	100.7	231	224	1,018	12.74
Over 100,000 .....	28	5,687	202.7	731	710	2,486	16.73
<b>Gas Transported for the Account of Others</b>							
Used in Building .....	58	3,281	56.4	353	343	1,318	25.20
Not Used in Building .....	2,599	41,713	16.1	1,821	1,770	8,583	5.53

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.31. Natural Gas Consumption and Expenditure Intensities, 1992**

Building Characteristics	Natural Gas Consumption						Natural Gas Expenditures			RSE Row Factor
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	per Worker (thousand cubic feet)	Distribution of Building-Level Intensities (kWh/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)	
				25th Percentile	Median	75th Percentile				
RSE Column Factor:	1.2	1.2	1.3				1.0	1.0	0.6	
<b>All Buildings</b> .....	795	47.0	41.3	15.6	35.5	74.4	3.7	0.22	4.69	5.41
<b>Building Floorspace (square feet)</b>										
1,001 to 5,000 .....	235	83.0	54.1	21.2	44.4	94.5	1.3	0.46	5.51	8.07
5,001 to 10,000 .....	426	57.3	47.5	14.1	30.5	60.8	2.3	0.31	5.50	6.03
10,001 to 25,000 .....	1,021	62.3	60.3	11.7	28.4	57.2	4.5	0.28	4.42	15.03
25,001 to 50,000 .....	1,732	48.2	55.5	10.0	24.9	55.7	8.6	0.24	4.96	13.73
50,001 to 100,000 .....	2,988	43.2	43.3	9.7	29.2	56.0	14.3	0.21	4.78	7.63
100,001 to 200,000 .....	3,850	28.1	31.1	5.0	13.7	33.8	17.2	0.13	4.46	11.71
200,001 to 500,000 .....	11,380	37.3	36.7	3.8	15.8	40.0	40.4	0.13	3.55	13.87
Over 500,000 .....	26,331	31.1	16.5	1.8	11.5	28.3	95.7	0.11	3.63	17.89
<b>Principal Building Activity</b>										
Education .....	1,434	41.3	52.3	17.0	30.2	60.4	6.4	0.19	4.49	7.97
Food Sales .....	334	45.9	42.6	13.4	26.8	82.3	1.9	0.26	5.75	15.79
Food Service .....	775	132.9	83.5	81.3	146.4	225.1	4.2	0.71	5.38	8.48
Health Care .....	4,067	119.2	61.4	21.0	39.6	90.8	14.6	0.43	3.60	14.67
Lodging .....	1,907	83.8	107.0	34.7	71.9	136.7	9.5	0.42	4.97	12.08
Mercantile and Service .....	486	39.5	28.4	15.9	35.5	68.5	2.5	0.20	5.13	11.23
Office .....	795	48.0	21.9	14.6	30.3	59.9	3.4	0.21	4.30	21.50
Parking Garage .....	830	Q	126.5	48.2	97.5	205.6	4.0	Q	4.84	18.29
Public Assembly .....	571	38.1	55.4	12.4	31.9	67.2	2.9	0.19	5.06	10.45
Public Order and Safety .....	975	62.1	64.4	43.5	60.2	121.2	4.7	0.30	4.80	17.22
Religious Worship .....	302	21.8	42.7	11.7	26.7	45.5	1.6	0.11	5.27	8.83
Warehouse and Storage .....	720	30.1	66.2	10.6	25.4	53.9	3.5	0.15	4.93	10.14
Other .....	2,866	105.1	88.1	6.8	32.2	106.3	10.6	0.39	3.69	29.08
Vacant .....	626	29.6	74.7	8.9	23.7	53.0	3.1	0.14	4.89	15.50
<b>Year Constructed</b>										
1899 or Before .....	542	48.3	58.6	14.3	32.8	64.5	2.5	0.23	4.70	13.44
1900 to 1919 .....	555	35.4	43.8	16.1	39.7	72.5	2.9	0.19	5.23	11.31
1920 to 1945 .....	690	52.5	60.2	15.2	35.5	82.5	3.3	0.25	4.79	11.85
1946 to 1959 .....	667	47.2	50.4	14.7	35.4	71.9	3.2	0.23	4.83	13.40
1960 to 1969 .....	894	46.6	29.7	15.8	35.4	68.3	4.1	0.21	4.60	10.37
1970 to 1979 .....	1,000	55.7	51.2	17.1	40.3	86.5	4.3	0.24	4.26	12.61
1980 to 1989 .....	866	40.8	33.0	15.6	32.9	68.5	4.3	0.20	4.97	10.54
1990 to 1992 .....	884	28.7	23.7	12.3	23.4	58.6	4.5	0.15	5.14	15.45
<b>Census Region and Division</b>										
Northeast .....	931	40.2	26.2	21.0	40.4	84.0	5.4	0.24	5.85	10.02
New England .....	1,151	41.1	35.3	23.4	52.9	100.6	7.6	0.27	6.57	15.06
Middle Atlantic .....	885	40.0	24.5	20.9	39.3	76.5	5.0	0.23	5.66	11.90
Midwest .....	861	52.7	57.4	25.2	49.2	90.8	3.6	0.22	4.15	5.51
East North Central .....	901	58.0	63.0	26.8	51.6	96.0	3.7	0.24	4.14	6.69
West North Central .....	784	43.8	47.9	21.9	45.2	86.7	3.3	0.18	4.16	10.84
South .....	768	50.7	48.4	11.8	27.3	55.1	3.4	0.22	4.43	14.86
South Atlantic .....	1,262	49.2	44.9	13.7	33.3	84.9	6.2	0.24	4.91	20.79
East South Central .....	692	47.4	43.4	16.4	30.2	64.4	3.5	0.24	5.11	13.75
West South Central .....	611	54.0	55.1	9.8	24.4	51.0	2.2	0.20	3.67	27.44
West .....	650	39.3	32.0	11.5	25.4	63.5	3.3	0.20	5.14	9.26
Mountain .....	670	51.9	43.3	17.0	36.6	82.4	2.8	0.22	4.21	14.82
Pacific .....	639	34.5	27.8	9.5	20.6	51.8	3.6	0.20	5.68	10.80
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and --										
More than 7,000 HDD .....	803	49.8	58.6	25.2	53.9	100.4	3.5	0.21	4.30	9.29
5,500-7,000 HDD .....	951	52.9	53.6	25.6	49.6	92.0	4.3	0.24	4.50	6.77
4,000-5,499 HDD .....	905	41.3	28.8	16.9	35.8	71.1	4.5	0.21	4.97	13.33
Fewer than 4,000 HDD .....	705	41.4	34.2	12.7	25.5	57.5	3.7	0.22	5.23	11.95
More than 2,000 CDD and --										
Fewer than 4,000 HDD .....	584	51.7	51.3	8.7	22.6	51.7	2.4	0.21	4.15	22.05

See footnotes at end of table.

**Table 3.31. Natural Gas Consumption and Expenditure Intensities, 1992 (Continued)**

Building Characteristics	Natural Gas Consumption						Natural Gas Expenditures			RSE Row Factor
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	per Worker (thousand cubic feet)	Distribution of Building-Level Intensities (kWh/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)	
				25th Percentile	Median	75th Percentile				
RSE Column Factor:	1.2	1.2	1.3				1.0	1.0	0.6	
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	796	47.0	41.3	15.6	35.5	74.4	3.7	0.22	4.69	5.20
Natural Gas .....	795	47.0	41.3	15.6	35.5	74.4	3.7	0.22	4.69	5.41
Fuel Oil .....	3,071	47.3	33.0	9.3	29.8	62.5	12.5	0.19	4.07	12.60
District Heat .....	3,155	42.0	32.1	4.2	15.8	45.3	12.0	0.16	3.81	24.10
District Chilled Water .....	2,727	47.2	33.4	8.6	18.1	45.3	11.2	0.19	4.10	19.35
Propane .....	2,109	49.6	63.0	14.0	25.3	69.9	10.7	0.25	5.10	21.13
Any Other .....	403	22.2	26.7	10.7	18.3	51.5	2.3	0.13	5.72	15.71
<b>Energy End Uses (more than one may apply)</b>										
Heated Buildings .....	801	47.1	41.3	15.9	35.8	74.6	3.7	0.22	4.68	5.27
Buildings with A/C .....	857	46.7	39.3	15.5	35.3	74.6	4.0	0.22	4.64	5.59
Buildings with Water Heating .....	886	47.8	41.4	16.4	37.5	80.4	4.1	0.22	4.66	5.46
Buildings with Cooking .....	1,723	49.6	36.1	21.8	58.5	139.6	7.7	0.22	4.48	5.70
Buildings with Manufacturing .....	1,881	60.5	74.5	14.7	31.4	73.7	8.3	0.27	4.43	20.32
<b>Workers (main shift)</b>										
Less than 5 .....	256	40.0	121.2	15.2	35.5	70.8	1.4	0.22	5.53	5.42
5 to 9 .....	520	64.6	80.1	17.5	38.0	90.8	2.2	0.28	4.28	15.31
10 to 19 .....	705	49.3	55.1	15.1	35.8	73.8	3.7	0.26	5.24	10.32
20 to 49 .....	1,537	55.1	53.3	15.4	33.6	91.0	7.7	0.28	5.00	11.34
50 to 99 .....	3,118	45.5	47.6	12.3	32.7	68.8	13.8	0.20	4.43	13.40
100 or More .....	7,143	39.4	19.4	6.3	23.1	53.5	28.1	0.15	3.93	8.95
<b>Weekly Operating Hours</b>										
39 or Fewer .....	364	36.6	71.7	11.7	28.9	53.0	1.8	0.18	4.97	10.01
40 to 48 .....	500	39.6	32.2	15.5	31.0	59.9	2.5	0.20	4.95	8.21
49 to 60 .....	662	41.3	40.4	13.6	32.1	61.5	3.2	0.20	4.78	11.29
61 to 84 .....	956	42.2	39.0	17.8	38.0	86.9	4.1	0.18	4.32	12.90
85 to 167 .....	1,013	46.5	28.6	23.4	56.3	132.9	5.1	0.23	5.02	8.75
Open Continuously .....	2,535	80.9	70.4	28.6	66.7	136.7	11.2	0.36	4.40	11.56
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	707	47.7	45.1	15.1	35.0	74.9	3.4	0.23	4.80	6.41
Owner Occupied .....	723	50.0	48.0	15.8	36.6	78.7	3.4	0.23	4.66	6.02
Single Establishment .....	710	57.8	59.6	16.4	37.6	80.8	3.3	0.27	4.62	6.57
Multiple Establishment .....	824	26.5	21.0	12.0	28.8	68.5	4.1	0.13	4.96	9.54
Nonowner Occupied .....	658	40.4	34.6	12.3	29.4	59.4	3.5	0.22	5.37	14.03
Single Establishment .....	635	57.7	48.5	14.4	37.9	78.3	3.4	0.31	5.40	20.43
Multiple Establishment .....	688	29.5	25.6	10.4	20.8	39.1	3.7	0.16	5.32	17.93
Vacant .....	545	39.4	Q	16.4	34.7	64.7	2.8	0.20	5.14	25.17
Government Owned .....	1,362	44.6	32.2	19.3	40.6	74.1	5.9	0.19	4.31	7.88
<b>Predominant Exterior Wall Material</b>										
Masonry .....	826	46.9	47.6	15.1	35.0	75.9	4.0	0.23	4.81	5.18
Siding or Shingles .....	316	51.2	43.6	19.8	36.6	69.0	1.8	0.29	5.59	9.25
Metal Panels .....	800	67.6	90.1	14.4	33.5	64.4	2.9	0.25	3.65	23.65
Concrete Panels .....	2,461	34.7	14.2	10.3	29.8	60.5	10.5	0.15	4.27	14.59
Window Glass .....	1,107	28.7	11.6	8.3	41.0	145.7	5.0	0.13	4.54	18.31
Other .....	760	27.1	15.3	23.7	57.4	82.6	3.7	0.13	4.80	23.29
<b>Predominant Roof Material</b>										
Built-Up .....	932	45.5	42.1	13.5	30.9	71.2	4.4	0.22	4.76	7.93
Shingles (Not Wood) .....	425	49.1	52.2	19.8	38.4	84.1	2.2	0.26	5.26	8.55
Metal Surfacing .....	613	57.5	62.8	13.9	32.3	68.4	2.4	0.22	3.85	20.97
Synthetic or Rubber .....	1,618	46.3	29.3	14.4	39.3	77.1	7.1	0.20	4.41	7.91
Other .....	745	40.8	43.2	17.9	41.8	84.5	3.8	0.21	5.16	11.47

See footnotes at end of table.

**Table 3.31. Natural Gas Consumption and Expenditure Intensities, 1992 (Continued)**

Building Characteristics	Natural Gas Consumption						Natural Gas Expenditures			RSE Row Factor
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	per Worker (thousand cubic feet)	Distribution of Building-Level Intensities (kWh/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)	
				25th Percentile	Median	75th Percentile				
RSE Column Factor:	1.2	1.2	1.3				1.0	1.0	0.6	
<b>Space-Heating Energy Source</b>										
Natural Gas .....	786	49.0	44.0	16.4	35.8	73.8	3.7	0.23	4.65	5.63
Natural Gas Main .....	780	50.4	45.1	17.3	37.0	74.6	3.6	0.24	4.68	5.86
Natural Gas Secondary .....	890	34.0	31.4	7.0	17.1	57.3	3.8	0.14	4.23	22.12
Other Excluding Natural Gas .....	965	35.4	27.0	9.7	31.6	94.0	4.8	0.17	4.94	9.24
Building Not Heated .....	Q	Q	Q	4.8	13.3	21.6	Q	Q	5.67	10.07
<b>Primary Space-Heating Energy Source</b>										
Electricity .....	699	35.5	29.1	11.7	30.4	85.9	3.7	0.19	5.24	8.52
Natural Gas .....	780	50.4	45.1	17.3	37.0	74.6	3.6	0.24	4.68	5.86
Fuel Oil .....	395	11.5	8.0	2.5	11.3	32.9	2.7	0.08	6.83	17.17
District Heat .....	2,711	37.3	26.8	3.5	14.4	45.3	10.5	0.14	3.88	16.32
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Primary Heating</b>										
Electricity Only .....	547	72.6	77.4	14.4	29.2	67.5	1.9	0.26	Q	19.77
Natural Gas Only .....	476	30.9	32.7	6.8	21.0	95.8	2.5	0.16	5.21	13.84
Fuel Oil Only .....	3,102	69.7	76.9	23.5	47.7	90.4	12.5	0.28	4.02	10.92
Propane Only .....	604	46.0	45.8	21.0	37.4	66.3	2.6	0.20	4.34	21.98
Any Other Single Energy Source .....	402	27.4	Q	11.5	26.5	59.9	2.4	0.17	6.07	29.24
More than One Energy Source .....	626	56.5	65.3	15.6	30.3	49.3	3.4	0.30	5.36	20.52
No Replacement Energy Source .....	740	42.8	35.6	16.3	37.4	76.5	3.7	0.21	4.94	5.55
Building Not Heated .....	Q	Q	Q	4.8	13.3	21.6	Q	Q	5.67	10.07
<b>Cooling Energy Source</b>										
Natural Gas .....	1,698	94.8	74.4	25.7	38.4	95.0	7.4	0.41	4.33	29.90
Other Excluding Natural Gas .....	815	44.4	37.5	15.0	35.0	74.0	3.8	0.21	4.68	5.26
A/C Not Performed .....	452	49.6	89.1	16.2	38.3	74.3	2.3	0.25	5.12	8.50
<b>Water-Heating Energy Source</b>										
Natural Gas .....	972	53.3	45.8	18.2	40.8	92.5	4.6	0.25	4.77	5.51
Other Excluding Natural Gas .....	676	35.2	30.9	13.6	30.3	57.6	2.9	0.15	4.26	12.35
Water Heating Not Performed .....	165	28.1	38.2	10.9	23.5	48.6	1.0	0.16	5.82	9.75
<b>Cooking Energy Source</b>										
Natural Gas .....	1,843	52.2	36.7	25.0	72.8	147.8	8.3	0.23	4.49	6.15
Other Excluding Natural Gas .....	1,211	37.5	32.3	12.5	36.6	63.9	5.4	0.17	4.43	14.18
Cooking Not Performed .....	564	45.1	46.4	15.0	32.4	62.6	2.7	0.22	4.84	8.20
<b>Manufacturing Energy Source</b>										
Natural Gas .....	3,478	94.8	120.7	25.6	61.6	183.5	14.5	0.39	4.17	34.07
Other Excluding Natural Gas .....	1,297	44.7	54.2	12.3	25.1	53.4	6.1	0.21	4.68	19.91
Manufacturing Not Performed .....	761	46.2	39.9	15.6	35.5	74.6	3.6	0.22	4.71	5.72
<b>Percent of Floorspace Heated</b>										
Not Heated .....	Q	Q	Q	4.8	13.3	21.6	Q	Q	5.67	10.07
1 to 50 .....	450	23.6	21.3	8.0	17.6	47.1	2.3	0.12	5.13	15.72
51 to 99 .....	829	45.8	41.5	13.6	32.1	65.2	3.7	0.21	4.48	16.20
100 .....	868	53.1	45.9	19.5	40.1	84.6	4.1	0.25	4.68	5.40

See footnotes at end of table.

**Table 3.31. Natural Gas Consumption and Expenditure Intensities, 1992 (Continued)**

Building Characteristics	Natural Gas Consumption						Natural Gas Expenditures			RSE Row Factor
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	per Worker (thousand cubic feet)	Distribution of Building-Level Intensities (kWh/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)	
				25th Percentile	Median	75th Percentile				
RSE Column Factor:	1.2	1.2	1.3				1.0	1.0	0.6	
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	1,531	44.4	41.3	10.2	31.0	71.9	7.4	0.22	4.86	15.75
Furnaces .....	559	49.1	41.4	17.6	35.0	69.7	2.6	0.22	4.56	11.66
Individual Space Heaters .....	781	42.4	37.3	13.4	34.1	69.1	3.7	0.20	4.79	8.98
District Heat .....	3,741	48.9	38.3	3.8	14.4	45.3	13.5	0.18	3.62	21.78
Boilers .....	2,054	53.4	46.7	21.9	51.1	95.0	9.1	0.24	4.43	6.20
Packaged Heating Units .....	938	43.9	30.4	14.5	37.6	85.9	4.7	0.22	4.97	7.62
Other .....	Q	Q	Q	14.4	38.4	201.2	Q	Q	5.14	7.03
<b>Water-Heating Equipment (more than one may apply)</b>										
Centralized System .....	962	56.5	49.3	18.9	39.3	84.5	4.3	0.25	4.49	7.50
Distributed System .....	832	39.3	33.2	14.6	35.4	75.2	4.1	0.19	4.88	5.97
<b>Annual Consumption (hundred cubic feet)</b>										
1,000 or Less .....	52	8.1	8.5	6.0	13.3	24.4	0.4	0.06	7.59	4.15
1,001 to 5,000 .....	240	23.4	22.8	23.6	40.7	74.3	1.4	0.14	5.87	3.64
5,001 to 10,000 .....	695	40.4	36.2	37.0	72.2	161.3	3.7	0.22	5.39	4.50
10,001 to 25,000 .....	1,554	44.7	43.0	42.1	83.6	174.1	7.9	0.23	5.05	3.84
25,001 to 50,000 .....	3,311	50.5	45.4	47.6	78.9	127.4	17.2	0.26	5.19	5.27
50,001 to 100,000 .....	6,819	67.7	65.4	56.5	91.1	221.1	31.0	0.31	4.54	5.41
Over 100,000 .....	25,317	124.9	69.8	85.2	164.3	821.2	88.6	0.44	3.50	14.12
<b>Gas Transported for the Account of Others</b>										
Used in Building .....	5,898	104.6	103.6	27.1	44.8	97.8	22.6	0.40	3.84	27.59
Not Used in Building .....	681	42.4	37.0	15.4	35.3	74.1	3.3	0.21	4.85	5.04

NF = No applicable RSE row factor.

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. • 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. • 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.



**Table 3.32. Natural Gas Consumption and Conditional Energy Intensity by Census Region, 1992**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)				Total Floorspace of Buildings Using Natural Gas (million square feet)				Natural Gas Energy Intensity (cubic feet/sq. ft.)				RSE Row Factor
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
	1.2	0.9	1.5	1.2	1.1	0.8	0.8	0.9	0.9	0.6	1.3	1.0	
<b>All Buildings</b> .....	344	726	677	365	8,559	13,775	13,361	9,299	40.2	52.7	50.7	39.3	10.67
<b>Building Floorspace (square feet)</b>													
1,001 to 5,000 .....	36	104	115	57	451	1,231	1,343	726	79.7	84.6	85.5	77.9	14.30
5,001 to 10,000 .....	31	88	63	62	649	1,403	1,290	919	48.4	62.8	48.5	67.3	15.20
10,001 to 25,000 .....	53	126	162	85	965	2,203	1,931	1,736	54.7	57.1	84.1	48.9	19.67
25,001 to 50,000 .....	70	85	113	47	1,306	1,822	1,977	1,415	53.4	46.5	57.2	33.2	22.15
50,001 to 100,000 .....	52	86	65	44	1,082	1,680	1,870	1,103	48.4	51.4	34.7	40.0	18.83
100,001 to 200,000 .....	32	81	47	40	1,135	1,891	2,257	1,852	28.4	42.8	20.8	21.6	20.37
200,001 to 500,000 .....	31	100	Q	26	897	2,298	1,375	1,029	34.3	43.4	Q	25.6	27.66
Over 500,000 .....	39	56	61	4	2,073	1,247	1,316	519	18.8	45.2	46.1	8.2	32.47
<b>Principal Building Activity</b>													
Education .....	64	113	63	43	1,457	2,291	1,933	1,174	43.9	49.4	32.6	36.6	17.16
Food Sales .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Food Service .....	29	51	35	37	294	412	243	197	99.8	123.7	142.9	189.1	22.26
Health Care .....	30	67	71	15	286	453	549	257	106.4	148.7	129.3	59.8	26.71
Lodging .....	41	40	53	54	390	523	725	596	104.1	76.2	73.0	90.4	26.10
Mercantile and Service .....	63	128	111	68	2,080	2,852	2,656	1,768	30.3	45.0	41.8	38.2	22.25
Office .....	31	102	187	57	1,285	2,080	2,443	2,037	24.2	48.9	76.3	28.2	17.55
Parking Garage .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Public Assembly .....	20	34	18	25	553	608	785	591	36.3	55.5	23.5	41.5	24.22
Public Order and Safety .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Religious Worship .....	7	30	13	12	340	977	870	713	22.0	30.7	15.4	17.2	23.95
Warehouse and Storage .....	33	89	54	14	1,127	2,238	1,992	975	29.5	39.7	27.1	14.5	25.22
Other .....	Q	15	Q	Q	Q	195	Q	Q	Q	74.9	Q	Q	43.12
Vacant .....	Q	27	12	15	Q	502	Q	517	Q	53.6	18.3	28.6	31.95
<b>Year Constructed</b>													
1899 or Before .....	15	27	Q	Q	417	627	Q	Q	36.2	43.3	Q	Q	27.29
1900 to 1919 .....	26	39	12	22	742	951	Q	459	34.8	41.2	18.6	47.7	28.29
1920 to 1945 .....	50	131	89	30	1,630	1,742	1,463	900	31.0	75.4	60.7	33.8	22.94
1946 to 1959 .....	40	111	141	54	1,272	2,309	2,360	1,360	31.2	47.9	59.7	39.4	20.15
1960 to 1969 .....	80	131	137	65	1,715	2,035	3,141	1,980	46.7	64.5	43.7	32.8	18.68
1970 to 1979 .....	65	162	171	114	1,260	3,149	2,613	2,195	51.5	51.6	65.6	52.0	21.35
1980 to 1989 .....	61	107	101	66	1,359	2,435	2,608	1,820	45.0	44.0	38.8	36.3	19.73
1990 to 1992 .....	7	17	14	8	164	527	476	458	42.5	32.8	29.1	18.4	31.95
<b>Climate Zone: 45-Year Average</b>													
Fewer than 2,000 CDD and --													
More than 7,000 HDD .....	Q	150	Q	34	Q	3,047	Q	Q	Q	49.1	Q	52.9	21.68
5,500-7,000 HDD .....	213	450	Q	62	4,715	7,778	Q	1,226	45.2	57.9	Q	50.5	16.59
4,000-5,499 HDD .....	131	126	Q	34	3,844	2,950	2,402	1,301	34.1	42.8	59.0	26.5	21.40
Fewer than 4,000 HDD .....	Q	Q	259	197	Q	Q	5,634	5,375	Q	Q	46.0	36.7	19.15
More than 2,000 CDD and --													
Fewer than 4,000 HDD .....	Q	Q	277	Q	Q	Q	5,325	759	Q	Q	52.0	49.8	23.59
<b>Energy Sources (more than one may apply)</b>													
Electricity .....	344	726	677	365	8,559	13,775	13,355	9,299	40.2	52.7	50.7	39.3	10.96
Natural Gas .....	344	726	677	365	8,559	13,775	13,361	9,299	40.2	52.7	50.7	39.3	10.67
Fuel Oil .....	99	152	113	36	2,880	2,060	2,127	1,358	34.2	73.5	52.9	26.4	23.74
District Heat .....	22	45	Q	21	841	1,022	Q	439	26.3	44.2	Q	47.6	39.74
District Chilled Water .....	Q	Q	17	Q	Q	Q	327	Q	Q	Q	52.7	Q	22.80
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Energy End Uses (more than one may apply)</b>													
Heated Buildings .....	344	725	674	355	8,559	13,765	13,249	8,953	40.2	52.7	50.9	39.6	10.68
Buildings with A/C .....	316	638	662	315	7,885	12,329	12,988	8,122	40.0	51.8	51.0	38.7	11.12
Buildings with Water Heating .....	342	708	652	356	8,447	13,255	12,416	8,928	40.4	53.4	52.5	39.9	10.83
Buildings with Cooking .....	196	322	235	162	4,517	5,480	5,180	3,281	43.3	58.8	45.4	49.4	14.26
Buildings with Manufacturing .....	27	34	75	17	573	753	790	411	46.7	45.6	95.5	40.1	32.77

See footnotes at end of table.

**Table 3.32. Natural Gas Consumption and Conditional Energy Intensity by Census Region, 1992 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)				Total Floorspace of Buildings Using Natural Gas (million square feet)				Natural Gas Energy Intensity (cubic feet/sq. ft.)				RSE Row Factor
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
	1.2	0.9	1.5	1.2	1.1	0.8	0.8	0.9	0.9	0.6	1.3	1.0	
<b>Workers (main shift)</b>													
Less than 5 .....	44	140	76	62	955	2,932	2,772	1,391	45.8	47.7	27.6	44.3	15.03
5 to 9 .....	31	99	127	34	729	1,518	1,343	910	43.1	64.9	94.3	37.5	18.43
10 to 19 .....	51	69	77	73	1,018	1,617	1,617	1,221	50.0	42.7	47.9	59.4	21.48
20 to 49 .....	78	140	162	80	1,500	2,335	2,721	1,802	51.9	60.0	59.7	44.4	19.43
50 to 99 .....	60	70	98	44	1,311	1,679	1,640	1,344	45.4	41.7	60.0	32.8	23.26
100 or More .....	81	209	136	73	3,046	3,694	3,268	2,631	26.5	56.6	41.6	27.6	17.99
<b>Weekly Operating Hours</b>													
39 or Fewer .....	24	69	37	17	671	1,342	1,434	572	35.7	51.4	25.8	29.6	21.03
40 to 48 .....	40	139	140	59	1,085	2,867	3,686	1,892	37.0	48.3	37.9	31.1	15.74
49 to 60 .....	48	126	144	78	1,595	3,007	2,890	2,062	29.8	41.7	49.9	37.7	18.76
61 to 84 .....	72	143	105	65	2,003	2,698	2,326	2,105	35.8	53.1	Q	31.0	21.06
85 to 167 .....	71	104	58	71	1,871	1,979	1,176	1,483	37.9	52.4	48.9	47.7	20.61
Open Continuously .....	90	146	194	76	1,334	1,882	1,849	1,186	67.5	77.7	104.8	63.7	20.81
<b>Ownership and Occupancy</b>													
Nongovernment Owned .....	256	541	537	293	6,197	10,239	10,082	7,565	41.4	52.8	53.2	38.8	11.51
Owner Occupied .....	212	448	429	217	4,556	8,304	7,581	5,687	46.4	54.0	56.6	38.2	11.41
Single Establishment .....	185	370	396	183	2,978	6,115	6,435	4,091	62.2	60.5	61.5	44.7	12.31
Multiple Establishment .....	26	79	33	34	1,578	2,189	1,146	1,595	16.7	36.0	28.8	21.5	22.91
Nonowner Occupied .....	44	88	Q	70	1,594	1,809	2,314	1,749	27.5	48.4	Q	39.9	23.51
Single Establishment .....	27	44	Q	23	Q	618	832	658	35.3	71.9	Q	34.6	28.86
Multiple Establishment .....	17	43	29	Q	833	1,191	1,482	1,090	20.5	36.2	19.3	Q	20.84
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned .....	88	186	141	72	2,362	3,536	3,279	1,734	37.2	52.5	42.9	41.4	16.91
<b>Predominant Exterior Wall Material</b>													
Masonry .....	284	563	490	270	6,685	10,752	10,181	6,668	42.6	52.3	48.1	40.5	12.14
Siding or Shingles .....	17	41	22	21	384	678	427	472	44.2	60.5	51.1	43.7	22.18
Metal Panels .....	Q	62	135	22	492	1,178	1,367	414	27.7	52.9	99.0	53.1	26.09
Concrete Panels .....	Q	40	20	40	Q	641	917	1,210	Q	62.1	22.3	32.9	27.00
Window Glass .....	Q	13	7	5	Q	246	362	258	Q	54.4	18.3	19.4	32.71
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Predominant Roof Material</b>													
Built-Up .....	126	306	340	196	3,435	5,367	6,838	5,649	36.8	57.0	49.8	34.7	14.47
Shingles (Not Wood) .....	53	115	96	56	1,179	2,225	1,703	1,404	45.3	51.5	56.1	40.2	17.56
Metal Surfacing .....	10	67	147	22	336	1,314	2,097	539	30.8	51.0	70.2	40.7	23.65
Synthetic or Rubber .....	128	204	60	41	2,667	3,869	1,940	851	47.9	52.7	30.9	47.7	18.27
Other .....	26	35	34	50	943	1,001	784	856	28.0	35.2	43.9	58.4	27.04
<b>Space-Heating Energy Source</b>													
Natural Gas .....	318	667	603	294	6,871	12,289	11,563	7,744	46.3	54.3	52.2	38.0	11.68
Natural Gas Main .....	301	638	554	277	6,049	11,459	10,637	6,984	49.8	55.7	52.1	39.6	12.14
Natural Gas Secondary .....	17	29	Q	18	822	831	926	759	20.5	35.3	Q	23.1	32.14
Other Excluding Natural Gas .....	26	58	71	60	1,688	1,476	1,686	1,210	15.3	39.1	41.8	49.7	19.26
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Primary Space-Heating Energy Source</b>													
Electricity .....	15	41	73	57	609	1,171	2,063	1,402	25.0	34.9	35.3	40.8	22.16
Natural Gas .....	301	638	554	277	6,049	11,459	10,637	6,984	49.8	55.7	52.1	39.6	12.14
Fuel Oil .....	11	Q	Q	Q	1,003	Q	Q	Q	10.7	Q	Q	Q	23.73
District Heat .....	16	28	21	19	769	830	323	334	21.0	34.1	65.6	55.4	30.68
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.32. Natural Gas Consumption and Conditional Energy Intensity by Census Region, 1992 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)				Total Floorspace of Buildings Using Natural Gas (million square feet)				Natural Gas Energy Intensity (cubic feet/sq. ft.)				RSE Row Factor
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
	1.2	0.9	1.5	1.2	1.1	0.8	0.8	0.9	0.9	0.6	1.3	1.0	
<b>Replacement Energy Source for Primary Heating</b>													
Electricity Only .....	10	36	Q	12	216	698	742	440	44.2	52.1	Q	27.9	25.39
Natural Gas Only .....	4	Q	Q	Q	242	Q	Q	Q	15.7	Q	Q	Q	34.58
Fuel Oil Only .....	93	150	83	21	1,419	1,970	1,211	358	65.2	75.9	68.2	58.4	25.63
Propane Only .....	Q	29	14	13	Q	671	362	485	Q	43.6	38.0	26.1	27.13
Any Other Single Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
No Replacement Energy Source .....	197	489	465	290	6,133	9,915	10,572	7,127	32.2	49.4	44.0	40.8	11.59
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Energy Source</b>													
Natural Gas .....	19	65	Q	23	320	512	420	654	60.5	127.0	Q	34.9	27.03
Other Excluding Natural Gas .....	296	573	589	292	7,565	11,817	12,568	7,468	39.2	48.5	46.8	39.1	11.08
A/C Not Performed .....	28	88	15	51	674	1,446	373	1,177	42.3	60.7	40.8	42.9	22.25
<b>Water-Heating Energy Source</b>													
Natural Gas .....	278	577	441	301	5,607	9,150	8,476	6,717	49.5	63.1	52.1	44.9	12.02
Other Excluding Natural Gas .....	64	131	211	55	2,840	4,105	3,940	2,211	22.4	32.0	53.5	24.8	17.43
Water Heating Not Performed .....	Q	18	26	9	Q	520	945	371	Q	34.4	27.0	23.6	21.02
<b>Cooking Energy Source</b>													
Natural Gas .....	172	278	194	149	3,891	4,388	4,296	2,628	44.1	63.4	45.2	56.8	15.61
Other Excluding Natural Gas .....	24	44	41	13	626	1,091	884	653	38.4	40.5	46.4	19.7	24.36
Cooking Not Performed .....	148	404	442	203	4,042	8,295	8,181	6,018	36.7	48.7	54.1	33.7	12.62
<b>Percent of Floorspace Heated</b>													
Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50 .....	37	32	66	35	1,813	1,422	2,401	1,549	20.2	22.3	27.5	22.8	25.23
51 to 99 .....	68	75	Q	92	1,513	1,998	2,038	2,136	45.0	37.6	Q	43.1	19.61
100 .....	239	618	491	227	5,233	10,345	8,810	5,268	45.8	59.8	55.7	43.1	10.77
<b>Heating Equipment (more than one may apply)</b>													
Heat Pumps .....	39	42	87	40	866	982	1,463	1,347	45.3	42.4	59.2	29.3	27.75
Furnaces .....	102	261	270	71	2,492	5,041	3,900	2,896	40.8	51.7	69.2	24.7	16.52
Individual Space Heaters .....	137	232	228	91	3,259	5,191	5,013	2,757	41.9	44.8	45.5	32.9	16.37
District Heat .....	22	45	Q	19	835	1,016	411	418	26.2	44.0	110.3	45.7	32.41
Boilers .....	189	389	216	115	4,402	6,241	3,886	2,493	43.0	62.4	55.5	46.2	13.09
Packaged Heating Units .....	107	156	172	131	2,622	2,885	4,266	3,132	40.9	54.1	40.4	41.8	17.09
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Annual Consumption (hundred cubic feet)</b>													
1,000 or Less .....	4	8	19	11	699	753	2,183	1,675	6.1	11.2	8.8	6.7	16.29
1,001 to 5,000 .....	43	100	75	49	1,810	3,065	3,989	2,589	23.6	32.8	18.9	19.1	11.23
5,001 to 10,000 .....	36	99	54	39	1,057	1,843	1,771	992	34.5	53.9	30.7	38.9	14.81
10,001 to 25,000 .....	42	145	95	78	1,000	3,090	2,136	1,821	42.2	46.9	44.3	43.0	15.32
25,001 to 50,000 .....	76	72	66	64	1,793	1,489	1,137	1,103	42.6	48.5	58.5	57.7	20.39
50,001 to 100,000 .....	42	83	62	38	606	1,252	836	617	68.8	66.3	74.2	60.9	23.65
Over 100,000 .....	101	218	305	86	1,594	2,283	1,309	501	63.1	95.5	233.2	172.2	29.14

See footnotes at end of table.

**Table 3.32. Natural Gas Consumption and Conditional Energy Intensity by Census Region, 1992 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)				Total Floorspace of Buildings Using Natural Gas (million square feet)				Natural Gas Energy Intensity (cubic feet/sq. ft.)				RSE Row Factor
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
	RSE Column Factor:	1.2	0.9	1.5	1.2	1.1	0.8	0.8	0.9	0.9	0.6	1.3	
<b>Gas Transported for the Account of Others</b>													
Used in Building .....	50	137	Q	Q	633	1,464	Q	436	78.9	93.4	Q	Q	26.35
Not Used in Building .....	294	590	568	318	7,926	12,311	12,612	8,863	37.1	47.9	45.1	35.8	10.43

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.33. Natural Gas Expenditures by Census Region, 1992**

Building Characteristics	Total Natural Gas Expenditures (million dollars)				Natural Gas Expenditures (dollars)								RSE Row Factor
					per Thousand Cubic Feet				per Square Foot				
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
RSE Column Factor:	1.7	1.2	1.9	1.8	0.6	0.4	0.8	0.3	1.2	0.9	1.5	1.4	
<b>All Buildings</b> .....	2,014	3,011	2,998	1,878	5.85	4.15	4.43	5.14	0.24	0.22	0.22	0.20	8.54
<b>Building Floorspace (square feet)</b>													
1,001 to 5,000 .....	266	515	599	337	7.39	4.94	5.21	5.96	0.59	0.42	0.45	0.46	9.62
5,001 to 10,000 .....	230	430	338	343	7.34	4.88	5.40	5.55	0.36	0.31	0.26	0.37	9.41
10,001 to 25,000 .....	336	576	543	427	6.38	4.58	3.34	5.03	0.35	0.26	0.28	0.25	15.96
25,001 to 50,000 .....	371	361	595	231	5.32	4.26	5.27	4.93	0.28	0.20	0.30	0.16	15.22
50,001 to 100,000 .....	329	356	288	210	6.28	4.13	4.44	4.77	0.30	0.21	0.15	0.19	12.80
100,001 to 200,000 .....	161	301	228	204	4.98	3.71	4.84	5.09	0.14	0.16	0.10	0.11	16.42
200,001 to 500,000 .....	133	312	Q	104	4.33	3.13	3.72	3.93	0.15	0.14	Q	0.10	19.50
Over 500,000 .....	187	160	214	21	4.81	2.84	3.53	4.95	0.09	0.13	0.16	0.04	23.79
<b>Principal Building Activity</b>													
Education .....	352	411	305	203	5.51	3.63	4.85	4.72	0.24	0.18	0.16	0.17	13.90
Food Sales .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Food Service .....	198	233	170	217	6.75	4.57	4.91	5.84	0.67	0.57	0.70	1.10	15.11
Health Care .....	126	197	264	75	4.15	2.92	3.73	4.87	0.44	0.43	0.48	0.29	20.48
Lodging .....	188	171	300	270	4.65	4.28	5.68	5.02	0.48	0.33	0.41	0.45	17.65
Mercantile and Service .....	407	605	542	344	6.47	4.71	4.88	5.10	0.20	0.21	0.20	0.19	14.31
Office .....	210	430	Q	297	6.77	4.23	Q	5.17	0.16	0.21	Q	0.15	10.89
Parking Garage .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Public Assembly .....	126	146	97	121	6.27	4.31	5.28	4.94	0.23	0.24	0.12	0.21	14.36
Public Order and Safety .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Religious Worship .....	50	142	78	62	6.61	4.75	5.85	5.07	Q	0.15	0.09	0.09	11.72
Warehouse and Storage .....	202	384	273	80	6.05	4.32	5.06	5.63	0.18	0.17	0.14	0.08	14.84
Other .....	Q	59	Q	Q	Q	4.03	Q	Q	Q	0.30	Q	Q	28.61
Vacant .....	Q	107	71	80	Q	3.99	5.78	5.41	Q	0.21	0.11	0.16	18.36
<b>Year Constructed</b>													
1899 or Before .....	101	110	Q	Q	6.69	4.06	Q	Q	0.24	0.18	Q	Q	23.30
1900 to 1919 .....	165	184	69	99	6.38	4.68	5.85	4.52	0.22	0.19	0.11	0.22	17.72
1920 to 1945 .....	316	548	409	169	6.25	4.18	4.60	5.56	0.19	0.31	0.28	0.19	16.91
1946 to 1959 .....	260	460	676	269	6.56	4.15	4.80	5.02	0.20	0.20	0.29	0.20	16.85
1960 to 1969 .....	433	523	599	348	5.40	3.98	4.37	5.35	0.25	0.26	0.19	0.18	12.97
1970 to 1979 .....	388	643	584	572	5.97	3.96	Q	5.01	0.31	0.20	0.22	0.26	12.58
1980 to 1989 .....	318	463	535	352	5.20	4.32	5.28	5.33	0.23	0.19	0.21	0.19	14.48
1990 to 1992 .....	34	81	79	46	4.87	4.65	5.72	5.41	0.21	0.15	0.17	0.10	20.25
<b>Climate Zone: 45-Year Average</b>													
Fewer than 2,000 CDD and --													
More than 7,000 HDD .....	Q	659	Q	132	Q	4.40	Q	3.89	Q	0.22	Q	0.21	13.50
5,500-7,000 HDD .....	1,216	1,810	Q	238	5.71	4.02	Q	3.84	0.26	0.23	Q	0.19	12.13
4,000-5,499 HDD .....	798	543	Q	165	6.08	4.29	4.60	4.78	0.21	0.18	0.27	0.13	14.29
Fewer than 4,000 HDD .....	Q	Q	1,253	1,132	Q	Q	4.84	5.75	Q	Q	0.22	0.21	12.05
More than 2,000 CDD and --													
Fewer than 4,000 HDD .....	Q	Q	1,093	Q	Q	Q	3.95	5.59	Q	Q	0.21	0.28	12.82
<b>Energy Sources (more than one may apply)</b>													
Electricity .....	2,014	3,011	2,996	1,878	5.85	4.15	4.42	5.14	0.24	0.22	0.22	0.20	8.57
Natural Gas .....	2,014	3,011	2,998	1,878	5.85	4.15	4.43	5.14	0.24	0.22	0.22	0.20	8.54
Fuel Oil .....	512	502	443	166	5.19	3.31	3.94	4.62	0.18	0.24	0.21	0.12	18.78
District Heat .....	101	146	Q	98	4.56	3.24	Q	4.69	0.12	0.14	Q	0.22	30.55
District Chilled Water .....	Q	Q	64	Q	Q	Q	3.71	Q	Q	Q	0.20	Q	15.29
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.33. Natural Gas Expenditures by Census Region, 1992 (Continued)**

Building Characteristics	Total Natural Gas Expenditures (million dollars)				Natural Gas Expenditures (dollars)								RSE Row Factor
					per Thousand Cubic Feet				per Square Foot				
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
RSE Column Factor:	1.7	1.2	1.9	1.8	0.6	0.4	0.8	0.3	1.2	0.9	1.5	1.4	
<b>Energy End Uses (more than one may apply)</b>													
Heated Buildings .....	2,014	3,006	2,978	1,817	5.85	4.15	4.42	5.13	0.24	0.22	0.22	0.20	8.54
Buildings with A/C .....	1,825	2,594	2,923	1,626	5.78	4.06	4.41	5.17	0.23	0.21	0.23	0.20	8.73
Buildings with Water Heating .....	1,995	2,919	2,846	1,822	5.84	4.12	4.37	5.11	0.24	0.22	0.23	0.20	8.69
Buildings with Cooking .....	1,025	1,225	1,047	807	5.24	3.80	4.45	4.98	0.23	0.22	0.20	0.25	10.00
Buildings with Manufacturing .....	173	146	285	74	6.46	4.26	3.77	4.47	0.30	0.19	0.36	0.18	21.31
<b>Workers (main shift)</b>													
Less than 5 .....	311	674	451	342	7.11	4.82	5.90	5.54	0.33	0.23	0.16	0.25	9.83
5 to 9 .....	218	460	372	194	6.94	4.67	Q	5.70	0.30	0.30	0.28	0.21	8.74
10 to 19 .....	347	305	389	372	6.83	4.42	5.02	5.13	0.34	0.19	0.24	0.30	13.20
20 to 49 .....	411	607	870	414	5.28	4.33	5.35	5.18	0.27	0.26	0.32	0.23	13.14
50 to 99 .....	332	289	378	207	5.57	4.14	3.84	4.70	0.25	0.17	0.23	0.15	15.44
100 or More .....	395	676	538	349	4.89	3.24	3.96	4.80	0.13	0.18	0.16	0.13	13.89
<b>Weekly Operating Hours</b>													
39 or Fewer .....	140	297	208	86	5.83	4.31	5.61	5.09	0.21	0.22	0.14	0.15	15.46
40 to 48 .....	273	604	684	308	6.82	4.36	4.89	5.23	0.25	0.21	0.19	0.16	10.08
49 to 60 .....	330	571	594	393	6.95	4.55	4.12	5.06	0.21	0.19	0.21	0.19	13.47
61 to 84 .....	442	596	292	336	6.16	4.16	Q	5.16	0.22	0.22	0.13	0.16	14.22
85 to 167 .....	405	437	295	384	5.72	4.22	5.13	5.42	0.22	0.22	0.25	0.26	13.89
Open Continuously .....	424	506	925	371	4.70	3.46	4.77	4.91	0.32	0.27	0.50	0.31	16.08
<b>Ownership and Occupancy</b>													
Nongovernment Owned .....	1,539	2,349	2,373	1,547	6.00	4.35	4.42	5.27	0.25	0.23	0.24	0.20	9.40
Owner Occupied .....	1,238	1,930	1,784	1,138	5.85	4.31	4.16	5.23	0.27	0.23	0.24	0.20	9.40
Single Establishment .....	1,050	1,597	1,627	962	5.67	4.32	4.11	5.25	0.35	0.26	0.25	0.24	9.92
Multiple Establishment .....	188	333	157	176	7.13	4.24	4.76	5.13	0.12	0.15	0.14	0.11	14.61
Nonowner Occupied .....	296	397	Q	379	6.74	4.54	5.45	5.43	0.19	0.22	Q	0.22	13.49
Single Establishment .....	180	204	Q	128	6.70	4.60	5.36	5.60	0.24	0.33	Q	0.19	17.61
Multiple Establishment .....	116	193	162	Q	6.80	4.48	5.67	5.35	0.14	0.16	0.11	Q	12.48
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned .....	475	662	625	331	5.41	3.56	4.44	4.61	0.20	0.19	0.19	0.19	11.94
<b>Predominant Exterior Wall Material</b>													
Masonry .....	1,647	2,339	2,357	1,391	5.79	4.16	4.81	5.14	0.25	0.22	0.23	0.21	8.95
Siding or Shingles .....	122	195	125	120	7.17	4.75	5.71	5.83	0.32	0.29	0.29	0.26	13.19
Metal Panels .....	Q	286	367	113	6.32	4.58	Q	5.12	0.18	0.24	0.27	0.27	15.72
Concrete Panels .....	Q	113	103	187	Q	2.83	5.03	4.69	Q	0.18	0.11	0.15	18.06
Window Glass .....	Q	48	33	28	Q	3.55	4.95	5.54	Q	0.19	0.09	0.11	19.96
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Predominant Roof Material</b>													
Built-Up .....	780	1,235	1,587	1,008	6.18	4.04	4.66	5.14	0.23	0.23	0.23	0.18	10.70
Shingles (Not Wood) .....	363	543	479	297	6.80	4.74	5.01	5.26	0.31	0.24	0.28	0.21	10.85
Metal Surfacing .....	74	311	442	121	7.16	4.64	Q	5.52	0.22	0.24	0.21	0.22	14.33
Synthetic or Rubber .....	639	774	318	177	5.00	3.80	5.30	4.35	0.24	0.20	0.16	0.21	13.92
Other .....	158	148	172	275	5.96	4.20	5.02	5.51	0.17	0.15	0.22	0.32	18.35
<b>Space-Heating Energy Source</b>													
Natural Gas .....	1,855	2,797	2,612	1,492	5.83	4.19	4.33	5.07	0.27	0.23	0.23	0.19	9.37
Natural Gas Main .....	1,754	2,682	2,428	1,413	5.82	4.20	4.38	5.11	0.29	0.23	0.23	0.20	9.64
Natural Gas Secondary .....	101	115	185	78	5.98	3.94	3.72	4.45	0.12	0.14	0.20	0.10	22.41
Other Excluding Natural Gas .....	159	209	365	326	6.14	3.62	5.18	5.42	0.09	0.14	0.22	0.27	13.45
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.33. Natural Gas Expenditures by Census Region, 1992 (Continued)**

Building Characteristics	Total Natural Gas Expenditures (million dollars)				Natural Gas Expenditures (dollars)								RSE Row Factor
					per Thousand Cubic Feet				per Square Foot				
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
RSE Column Factor:	1.7	1.2	1.9	1.8	0.6	0.4	0.8	0.3	1.2	0.9	1.5	1.4	
<b>Primary Space-Heating Energy Source</b>													
Electricity .....	101	171	398	304	6.63	4.20	5.46	5.33	0.17	0.15	0.19	0.22	13.53
Natural Gas .....	1,754	2,682	2,428	1,413	5.82	4.20	4.38	5.11	0.29	0.23	0.23	0.20	9.64
Fuel Oil .....	77	Q	Q	Q	7.15	Q	Q	Q	0.08	Q	Q	Q	14.51
District Heat .....	77	90	70	89	4.79	3.18	3.30	4.81	0.10	0.11	0.22	0.27	19.90
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Primary Heating</b>													
Electricity Only .....	65	171	228	73	6.76	4.72	Q	5.95	0.30	0.25	0.31	0.17	14.06
Natural Gas Only .....	27	Q	Q	Q	7.12	Q	Q	Q	0.11	Q	Q	Q	20.82
Fuel Oil Only .....	502	493	307	87	5.42	3.29	3.72	4.16	0.35	0.25	0.25	0.24	18.19
Propane Only .....	Q	132	65	68	Q	4.51	4.75	5.41	Q	0.20	0.18	0.14	17.96
Any Other Single Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
No Replacement Energy Source .....	1,231	2,112	2,283	1,497	6.24	4.32	4.91	5.15	0.20	0.21	0.22	0.21	8.43
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Energy Source</b>													
Natural Gas .....	118	208	Q	114	6.10	3.19	4.66	5.02	0.37	0.41	Q	0.18	26.65
Other Excluding Natural Gas .....	1,707	2,387	2,581	1,511	5.76	4.16	4.38	5.18	0.23	0.20	0.21	0.20	8.40
A/C Not Performed .....	189	417	75	252	6.62	4.75	4.92	4.99	0.28	0.29	0.20	0.21	13.47
<b>Water-Heating Energy Source</b>													
Natural Gas .....	1,606	2,341	2,112	1,562	5.78	4.06	4.79	5.18	0.29	0.26	0.25	0.23	9.02
Other Excluding Natural Gas .....	390	578	734	260	6.11	4.40	3.49	4.74	0.14	0.14	0.19	0.12	12.86
Water Heating Not Performed .....	Q	92	152	56	Q	5.17	5.94	6.42	Q	0.18	0.16	0.15	13.05
<b>Cooking Energy Source</b>													
Natural Gas .....	891	1,042	882	746	5.19	3.75	4.54	5.00	0.23	0.24	0.21	0.28	10.75
Other Excluding Natural Gas .....	134	183	164	61	5.58	4.13	4.01	4.70	0.21	0.17	0.19	0.09	18.69
Cooking Not Performed .....	989	1,786	1,951	1,071	6.66	4.42	4.41	5.28	0.24	0.22	0.24	0.18	10.12
<b>Percent of Floorspace Heated</b>													
Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50 .....	220	161	294	196	6.00	5.07	4.45	5.55	0.12	0.11	0.12	0.13	15.69
51 to 99 .....	404	333	354	486	5.93	4.44	Q	5.28	0.27	0.17	0.17	0.23	13.90
100 .....	1,390	2,512	2,330	1,136	5.81	4.06	4.75	5.00	0.27	0.24	0.26	0.22	8.31
<b>Heating Equipment (more than one may apply)</b>													
Heat Pumps .....	208	139	448	211	5.29	3.34	5.17	5.35	0.24	0.14	0.31	0.16	18.40
Furnaces .....	580	1,210	1,052	367	5.70	4.64	3.90	5.14	0.23	0.24	0.27	0.13	13.61
Individual Space Heaters .....	736	983	1,129	445	5.39	4.23	4.95	4.90	0.23	0.19	0.23	0.16	11.92
District Heat .....	99	145	Q	92	4.54	3.23	3.05	4.82	0.12	0.14	0.34	0.22	21.51
Boilers .....	1,099	1,483	918	531	5.81	3.81	4.25	4.61	0.25	0.24	0.24	0.21	9.71
Packaged Heating Units .....	589	650	855	721	5.49	4.17	4.96	5.50	0.22	0.23	0.20	0.23	12.35
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Annual Consumption (hundred cubic feet)</b>													
1,000 or Less .....	39	54	144	90	9.13	6.45	7.50	7.99	0.06	0.07	0.07	0.05	9.89
1,001 to 5,000 .....	331	518	433	289	7.77	5.16	5.74	5.85	0.18	0.17	0.11	0.11	7.59
5,001 to 10,000 .....	259	460	299	215	7.09	4.63	5.48	5.59	0.24	0.25	0.17	0.22	9.67
10,001 to 25,000 .....	279	651	478	410	6.61	4.50	5.06	5.23	0.28	0.21	0.22	0.22	10.50
25,001 to 50,000 .....	471	316	349	312	6.17	4.37	5.25	4.90	0.26	0.21	0.31	0.28	12.91
50,001 to 100,000 .....	220	344	280	175	5.27	4.15	4.51	4.65	0.36	0.27	0.33	0.28	15.08
Over 100,000 .....	415	669	1,015	387	4.13	3.07	3.32	4.49	0.26	0.29	0.78	0.77	23.30

See footnotes at end of table.

**Table 3.33. Natural Gas Expenditures by Census Region, 1992 (Continued)**

Building Characteristics	Total Natural Gas Expenditures (million dollars)				Natural Gas Expenditures (dollars)								RSE Row Factor
					per Thousand Cubic Feet				per Square Foot				
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
RSE Column Factor:	1.7	1.2	1.9	1.8	0.6	0.4	0.8	0.3	1.2	0.9	1.5	1.4	
<b>Gas Transported for the Account of Others</b>													
Used in Building .....	202	391	Q	Q	4.04	2.86	Q	5.05	0.32	0.27	Q	Q	22.37
Not Used in Building .....	1,813	2,621	2,511	1,639	6.16	4.45	4.42	5.16	0.23	0.21	0.20	0.18	7.94

NF = No applicable RSE row factor.

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. • 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. • 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.



**Table 3.34. Natural Gas Consumption and Conditional Energy Intensity by Building Size, 1992**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	1.0	1.3	1.5	0.7	0.8	1.1	0.7	1.0	1.1	
<b>All Buildings</b> .....	556	988	569	8,014	19,091	17,889	69.3	51.8	31.8	8.27
<b>Principal Building Activity</b>										
Education .....	16	166	101	373	3,491	2,991	41.9	47.7	33.8	14.72
Food Sales .....	11	Q	Q	219	Q	Q	51.2	Q	Q	42.21
Food Service .....	117	34	Q	637	453	Q	183.8	73.9	Q	17.54
Health Care .....	7	19	158	118	259	1,167	58.8	74.9	135.1	23.39
Lodging .....	37	113	37	284	1,245	704	130.4	91.0	52.4	22.25
Mercantile and Service .....	142	180	48	2,533	3,514	3,309	56.1	51.3	14.4	15.00
Office .....	110	206	60	1,437	2,991	3,419	76.7	69.0	17.6	20.46
Parking Garage .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Public Assembly .....	28	52	Q	572	1,327	637	49.1	39.1	26.3	20.47
Public Order and Safety .....	12	16	Q	120	239	Q	99.3	67.8	Q	28.48
Religious Worship .....	21	39	Q	605	1,625	Q	34.4	24.1	Q	13.80
Warehouse and Storage .....	36	87	68	715	2,497	3,121	50.0	34.8	21.7	16.91
Other .....	Q	Q	Q	Q	376	Q	Q	Q	Q	39.21
Vacant .....	11	24	25	302	727	Q	34.8	33.6	25.0	27.12
<b>Year Constructed</b>										
1899 or Before .....	29	22	Q	458	708	Q	63.6	30.7	Q	21.89
1900 to 1919 .....	35	45	19	589	1,045	1,151	58.9	42.6	16.9	21.31
1920 to 1945 .....	101	111	89	1,275	2,601	1,860	78.9	42.8	48.0	17.68
1946 to 1959 .....	95	194	55	1,485	3,571	2,245	64.0	54.4	24.7	16.40
1960 to 1969 .....	87	196	131	1,357	3,621	3,894	64.2	54.2	33.5	15.53
1970 to 1979 .....	113	238	162	1,619	3,579	4,019	70.0	66.5	40.2	14.85
1980 to 1989 .....	90	159	87	1,083	3,327	3,812	82.9	47.7	22.8	16.33
1990 to 1992 .....	6	23	17	148	640	837	39.3	36.5	20.8	24.93
<b>Census Region and Division</b>										
Northeast .....	67	175	102	1,100	3,353	4,105	61.3	52.1	24.8	14.41
New England .....	15	44	14	184	698	879	79.7	62.6	16.0	28.24
Middle Atlantic .....	53	131	88	916	2,656	3,226	57.6	49.4	27.3	16.92
Midwest .....	192	297	237	2,634	5,705	5,436	73.0	52.0	43.6	10.05
East North Central .....	132	208	161	1,739	3,800	3,107	76.1	54.6	52.0	12.22
West North Central .....	60	89	76	895	1,905	2,329	66.9	46.9	32.5	19.13
South .....	177	340	160	2,634	5,779	4,948	67.4	58.9	32.3	19.49
South Atlantic .....	33	Q	80	490	1,703	2,550	67.2	70.6	31.4	29.75
East South Central .....	52	76	26	701	1,691	857	74.3	44.8	30.7	26.06
West South Central .....	92	144	Q	1,443	2,385	1,541	64.1	60.6	Q	32.22
West .....	118	176	71	1,645	4,254	3,400	72.0	41.4	20.8	14.77
Mountain .....	48	69	16	559	1,412	589	86.6	48.7	26.4	21.38
Pacific .....	70	107	55	1,086	2,842	2,811	64.5	37.7	19.6	18.53
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and --										
More than 7,000 HDD .....	52	81	50	722	1,549	1,416	72.7	52.5	35.2	19.17
5,500-7,000 HDD .....	175	338	212	2,341	6,179	5,198	74.9	54.7	40.8	11.28
4,000-5,499 HDD .....	80	222	132	1,378	3,722	5,397	58.0	59.6	24.5	16.50
Fewer than 4,000 HDD .....	133	214	109	1,923	4,841	4,245	68.9	44.2	25.8	19.18
More than 2,000 CDD and --										
Fewer than 4,000 HDD .....	115	133	66	1,651	2,800	1,634	69.9	47.5	40.4	31.24
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	555	988	569	8,007	19,091	17,889	69.4	51.8	31.8	8.22
Natural Gas .....	556	988	569	8,014	19,091	17,889	69.3	51.8	31.8	8.27
Fuel Oil .....	13	122	263	281	1,950	6,196	46.1	62.7	42.5	20.82
District Heat .....	Q	43	69	Q	732	1,900	Q	58.5	36.4	26.52
District Chilled Water .....	Q	Q	26	Q	295	603	Q	54.1	43.5	21.68
Propane .....	Q	Q	25	Q	Q	567	Q	Q	43.6	24.68
Any Other .....	7	Q	Q	181	Q	Q	38.8	Q	Q	27.94

See footnotes at end of table.

**Table 3.34. Natural Gas Consumption and Conditional Energy Intensity by Building Size, 1992 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	1.0	1.3	1.5	0.7	0.8	1.1	0.7	1.0	1.1	
RSE Column Factor:	1.0	1.3	1.5	0.7	0.8	1.1	0.7	1.0	1.1	
<b>Energy End Uses (more than one may apply)</b>										
Heated Buildings .....	543	985	569	7,906	18,974	17,646	68.7	51.9	32.3	8.30
Buildings with A/C .....	474	906	551	6,751	17,231	17,343	70.2	52.6	31.8	8.76
Buildings with Water Heating .....	519	972	567	7,012	18,307	17,728	74.0	53.1	32.0	8.39
Buildings with Cooking .....	156	370	389	1,336	6,143	10,980	117.0	60.2	35.4	10.34
Buildings with Manufacturing .....	15	86	Q	255	1,086	1,187	57.1	79.2	Q	28.54
<b>Workers (main shift)</b>										
Less than 5 .....	216	83	Q	4,060	3,058	Q	53.2	27.2	Q	10.22
5 to 9 .....	159	122	Q	1,902	2,343	Q	83.8	52.2	Q	22.49
10 to 19 .....	109	151	10	1,383	3,225	865	78.6	46.8	11.6	19.06
20 to 49 .....	67	354	40	632	5,852	1,874	106.1	60.4	21.1	16.33
50 to 99 .....	Q	177	91	Q	2,849	3,089	Q	62.2	29.3	19.10
100 or More .....	Q	101	398	Q	1,765	10,873	Q	57.0	36.6	12.56
<b>Weekly Operating Hours</b>										
39 or Fewer .....	50	73	Q	1,299	2,036	Q	38.3	35.8	Q	14.44
40 to 48 .....	159	162	56	2,358	4,713	2,459	67.5	34.3	22.9	13.23
49 to 60 .....	91	212	92	1,824	4,473	3,256	49.8	47.3	28.4	16.31
61 to 84 .....	96	190	99	1,223	3,393	4,516	78.4	56.0	22.0	15.98
85 to 167 .....	101	128	74	769	2,374	3,366	130.9	54.1	21.9	16.19
Open Continuously .....	59	223	223	540	2,101	3,609	109.4	106.3	61.9	16.73
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	498	778	351	7,106	14,968	12,010	70.0	52.0	29.2	9.04
Owner Occupied .....	418	590	298	5,653	11,395	9,079	73.9	51.8	32.8	9.80
Single Establishment .....	382	524	228	4,978	9,576	5,066	76.7	54.7	45.1	10.67
Multiple Establishment .....	36	66	70	675	1,819	4,013	53.6	36.5	17.4	17.77
Nonowner Occupied .....	74	176	51	1,328	3,274	2,863	55.7	53.8	17.9	16.51
Single Establishment .....	51	Q	21	779	1,043	1,047	65.8	89.6	19.9	23.88
Multiple Establishment .....	23	83	30	549	2,231	1,816	41.4	37.0	16.8	20.47
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned .....	58	210	218	908	4,123	5,880	63.9	50.9	37.1	12.53
<b>Predominant Exterior Wall Material</b>										
Masonry .....	394	784	429	5,792	15,700	12,794	67.9	49.9	33.6	8.21
Siding or Shingles .....	65	32	Q	1,024	712	Q	63.8	45.0	Q	17.80
Metal Panels .....	82	Q	Q	989	1,308	1,152	82.8	Q	Q	24.79
Concrete Panels .....	Q	48	69	Q	1,051	2,437	Q	45.5	28.2	20.09
Window Glass .....	Q	13	11	Q	231	714	Q	56.8	16.0	24.50
Other .....	Q	Q	12	Q	Q	566	Q	Q	21.7	25.42
<b>Predominant Roof Material</b>										
Built-Up .....	186	475	308	3,031	8,943	9,315	61.2	53.1	33.1	10.45
Shingles (Not Wood) .....	189	119	12	2,413	3,061	1,037	78.5	38.8	11.4	15.32
Metal Surfacing .....	83	129	Q	1,339	2,026	921	62.2	63.6	Q	21.95
Synthetic or Rubber .....	48	199	186	658	3,628	5,040	72.4	54.7	36.9	13.63
Other .....	50	67	29	573	1,432	1,577	86.8	46.9	18.4	19.11
<b>Space-Heating Energy Source</b>										
Natural Gas .....	482	893	508	7,288	16,786	14,393	66.2	53.2	35.3	8.84
Natural Gas Main .....	469	855	446	6,885	15,687	12,557	68.1	54.5	35.5	9.13
Natural Gas Secondary .....	13	38	Q	403	1,099	1,836	32.7	34.6	Q	21.35
Other Excluding Natural Gas .....	61	92	61	618	2,188	3,253	98.9	42.0	18.8	15.32
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.34. Natural Gas Consumption and Conditional Energy Intensity by Building Size, 1992 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	1.0	1.3	1.5	0.7	0.8	1.1	0.7	1.0	1.1	
<b>Primary Space-Heating Energy Source</b>										
Electricity .....	68	84	33	832	2,078	2,336	82.2	40.6	14.3	16.58
Natural Gas .....	469	855	446	6,885	15,687	12,557	68.1	54.5	35.5	9.13
Fuel Oil .....	Q	7	3	Q	488	666	Q	14.0	4.3	30.77
District Heat .....	Q	38	45	Q	642	1,581	Q	59.8	28.7	19.10
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Primary Heating</b>										
Electricity Only .....	72	Q	Q	942	856	Q	76.5	Q	Q	28.27
Natural Gas Only .....	14	13	Q	171	387	Q	83.9	32.5	Q	27.84
Fuel Oil Only .....	21	85	240	271	1,362	3,326	76.8	62.7	72.0	19.12
Propane Only .....	25	43	Q	397	745	Q	62.1	57.3	Q	29.24
Any Other Single Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source .....	8	Q	Q	186	Q	Q	41.8	Q	Q	36.55
No Replacement Energy Source .....	401	742	300	5,870	15,137	12,739	68.3	49.0	23.5	9.06
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Energy Source</b>										
Natural Gas .....	22	98	61	340	789	777	64.1	123.8	78.8	27.66
Other Excluding Natural Gas .....	452	808	490	6,410	16,442	16,565	70.6	49.1	29.6	8.83
A/C Not Performed .....	81	82	18	1,263	1,860	547	64.5	44.3	33.1	19.96
<b>Water-Heating Energy Source</b>										
Natural Gas .....	390	765	442	4,838	13,500	11,613	80.7	56.7	38.1	8.68
Other Excluding Natural Gas .....	129	207	125	2,174	4,807	6,115	59.3	43.1	20.4	18.29
Water Heating Not Performed .....	36	16	Q	1,002	783	Q	36.4	20.4	Q	16.09
<b>Cooking Energy Source</b>										
Natural Gas .....	139	313	341	1,016	5,031	9,157	136.5	62.2	37.3	10.97
Other Excluding Natural Gas .....	18	57	48	320	1,111	1,823	55.0	51.0	26.3	20.55
Cooking Not Performed .....	399	618	180	6,678	12,948	6,910	59.8	47.8	26.1	11.96
<b>Percent of Floorspace Heated</b>										
Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50 .....	53	62	Q	1,185	2,628	3,373	44.3	23.4	Q	17.62
51 to 99 .....	77	184	91	1,273	3,140	3,271	60.7	58.5	27.9	16.44
100 .....	414	740	422	5,449	13,206	11,002	75.9	56.0	38.4	9.13
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	53	64	90	404	1,451	2,802	130.0	44.4	32.1	22.06
Furnaces .....	255	362	86	4,139	6,139	4,051	61.5	59.0	21.3	16.96
Individual Space Heaters .....	149	321	219	2,633	6,495	7,093	56.4	49.4	30.8	12.68
District Heat .....	Q	41	89	Q	704	1,929	Q	58.2	46.3	22.59
Boilers .....	90	434	386	996	7,168	8,858	89.9	60.6	43.6	10.10
Packaged Heating Units .....	149	273	145	1,700	5,570	5,636	87.4	49.0	25.8	12.89
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Annual Consumption (hundred cubic feet)</b>										
1,000 or Less .....	38	5	(*)	2,579	2,205	527	14.9	2.2	0.2	13.84
1,001 to 5,000 .....	202	63	4	3,993	4,871	2,590	50.5	12.9	1.5	8.10
5,001 to 10,000 .....	128	97	4	932	3,432	1,299	136.9	28.2	3.4	9.93
10,001 to 25,000 .....	106	229	25	422	4,543	3,082	250.6	50.3	8.3	10.36
25,001 to 50,000 .....	Q	200	50	Q	2,553	2,901	Q	78.4	17.2	10.93
50,001 to 100,000 .....	Q	136	75	Q	973	2,329	Q	140.1	32.0	13.05
Over 100,000 .....	Q	259	411	Q	513	5,161	Q	503.6	79.7	17.05

See footnotes at end of table.

**Table 3.34. Natural Gas Consumption and Conditional Energy Intensity by Building Size, 1992 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	RSE Column Factor:	1.0	1.3	1.5	0.7	0.8	1.1	0.7	1.0	
<b>Gas Transported for the Account of Others</b>										
Used in Building .....	20	Q	207	130	630	2,521	157.5	Q	82.1	28.08
Not Used in Building .....	535	872	363	7,884	18,460	15,369	67.9	47.2	23.6	8.21

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

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.35. Natural Gas Consumption and Conditional Energy Intensity for Mercantile and Office Buildings, 1992**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)				Total Floorspace of Buildings Using Natural Gas (million square feet)				Natural Gas Energy Intensity (cubic feet/sq. ft.)				RSE Row Factor
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
	1.0	1.5	1.3	1.2	0.7	1.2	0.7	0.9	0.9	0.9	1.1	0.9	
<b>All Buildings</b> .....	301	69	284	93	5,007	4,349	3,514	4,332	60.1	15.8	80.8	21.4	15.73
<b>Building Floorspace (square feet)</b>													
1,001 to 5,000 .....	77	Q	70	Q	1,221	Q	653	Q	63.4	Q	107.0	Q	17.52
5,001 to 10,000 .....	65	Q	40	Q	1,312	Q	784	Q	49.4	Q	51.4	Q	13.64
10,001 to 25,000 .....	130	Q	Q	Q	1,478	Q	1,099	Q	88.3	Q	Q	Q	25.32
25,001 to 50,000 .....	28	Q	Q	Q	997	Q	978	Q	28.5	Q	Q	Q	27.06
50,001 to 100,000 .....	Q	21	Q	33	Q	1,040	Q	913	Q	20.5	Q	35.6	20.36
100,001 to 200,000 .....	Q	19	Q	22	Q	1,267	Q	1,360	Q	14.9	Q	16.5	24.87
200,001 to 500,000 .....	Q	Q	Q	26	Q	532	Q	1,072	Q	11.9	Q	24.2	31.42
Over 500,000 .....	Q	22	Q	12	Q	1,510	Q	987	Q	14.8	Q	12.0	26.92
<b>Year Constructed</b>													
1899 or Before .....	4	Q	Q	Q	149	Q	Q	Q	24.4	Q	Q	Q	30.75
1900 to 1919 .....	12	Q	11	Q	303	Q	211	Q	41.1	Q	50.6	Q	28.74
1920 to 1945 .....	41	Q	35	Q	877	Q	533	Q	46.6	Q	66.0	Q	20.35
1946 to 1959 .....	61	Q	Q	Q	1,110	Q	484	Q	54.7	Q	Q	Q	29.87
1960 to 1969 .....	75	22	22	20	817	1,388	526	880	92.0	16.0	41.7	22.6	27.08
1970 to 1979 .....	73	17	Q	15	943	994	623	736	77.8	17.5	Q	20.4	27.63
1980 to 1989 .....	29	15	Q	17	714	1,123	725	1,161	40.7	13.6	Q	14.6	19.62
1990 to 1992 .....	Q	Q	Q	9	Q	Q	Q	305	Q	Q	Q	30.3	43.31
<b>Census Region and Division</b>													
Northeast .....	37	Q	18	13	919	Q	545	741	40.6	Q	33.2	17.5	22.86
New England .....	Q	Q	Q	4	Q	Q	Q	195	Q	Q	Q	21.5	31.95
Middle Atlantic .....	32	Q	12	9	824	Q	418	545	38.2	Q	28.3	16.1	26.62
Midwest .....	106	22	61	40	1,749	1,104	1,062	1,018	60.7	20.1	57.6	39.8	18.95
East North Central .....	68	16	44	35	1,098	573	689	734	62.0	27.5	64.2	48.3	21.31
West North Central .....	38	Q	17	Q	650	Q	373	Q	58.5	Q	45.3	Q	29.71
South .....	96	15	Q	18	1,504	1,152	932	1,511	63.8	13.2	181.0	11.8	28.21
South Atlantic .....	11	Q	Q	7	269	Q	213	801	41.2	Q	Q	Q	38.89
East South Central .....	37	Q	24	Q	536	Q	306	Q	68.8	Q	77.5	Q	32.47
West South Central .....	Q	Q	Q	4	700	Q	413	346	Q	Q	Q	12.1	33.11
West .....	62	6	36	21	836	932	975	1,062	73.7	6.4	36.8	20.2	27.06
Mountain .....	15	Q	17	Q	409	Q	283	Q	37.2	Q	61.2	Q	34.14
Pacific .....	Q	Q	19	17	426	752	692	920	Q	5.3	26.9	18.5	26.23
<b>Climate Zone: 45-Year Average</b>													
Fewer than 2,000 CDD and -- More than 7,000 HDD .....	32	Q	16	Q	512	Q	229	Q	63.3	Q	70.9	Q	31.50
5,500-7,000 HDD .....	91	22	62	45	1,732	1,291	1,206	1,134	52.4	17.0	51.3	39.7	17.95
4,000-5,499 HDD .....	61	Q	Q	21	1,111	1,248	599	1,586	55.3	19.0	Q	13.1	31.39
Fewer than 4,000 HDD .....	93	10	42	17	924	856	1,041	1,106	100.1	11.8	40.2	15.4	25.16
More than 2,000 CDD and -- Fewer than 4,000 HDD .....	24	4	Q	4	729	587	440	366	32.7	7.4	Q	12.2	31.64
<b>Energy Sources (more than one may apply)</b>													
Electricity .....	301	69	284	93	5,002	4,349	3,514	4,332	60.1	15.8	80.8	21.4	15.85
Natural Gas .....	301	69	284	93	5,007	4,349	3,514	4,332	60.1	15.8	80.8	21.4	15.73
Fuel Oil .....	Q	Q	Q	40	Q	Q	Q	1,946	Q	Q	Q	20.6	22.66
District Heat .....	Q	Q	Q	Q	Q	Q	Q	546	Q	Q	Q	Q	35.23
District Chilled Water .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.35. Natural Gas Consumption and Conditional Energy Intensity for Mercantile and Office Buildings, 1992 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)				Total Floorspace of Buildings Using Natural Gas (million square feet)				Natural Gas Energy Intensity (cubic feet/sq. ft.)				RSE Row Factor
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
	1.0	1.5	1.3	1.2	0.7	1.2	0.7	0.9	0.9	0.9	1.1	0.9	
<b>Energy End Uses (more than one may apply)</b>													
Heated Buildings .....	294	68	284	93	4,983	4,096	3,514	4,323	59.0	16.5	80.8	21.5	15.85
Buildings with A/C .....	247	68	276	92	4,336	4,288	3,441	4,329	57.0	15.9	80.2	21.3	16.40
Buildings with Water Heating .....	282	68	281	93	4,380	4,313	3,470	4,313	64.3	15.7	81.1	21.5	16.13
Buildings with Cooking .....	Q	48	Q	50	341	2,975	Q	2,398	Q	16.0	Q	21.0	19.28
Buildings with Manufacturing .....	11	Q	Q	Q	220	Q	Q	Q	50.1	Q	Q	Q	32.59
<b>Workers (main shift)</b>													
Less than 5 .....	73	Q	21	Q	1,755	Q	415	Q	41.5	Q	50.4	Q	15.39
5 to 9 .....	42	Q	Q	Q	1,062	Q	634	Q	39.4	Q	Q	Q	16.81
10 to 19 .....	73	Q	36	Q	1,018	Q	593	Q	71.5	Q	61.1	Q	25.39
20 to 49 .....	66	Q	Q	Q	923	Q	1,101	Q	71.4	Q	Q	Q	23.88
50 to 99 .....	Q	15	17	Q	219	883	485	Q	210.8	17.4	34.1	Q	27.85
100 or More .....	Q	42	14	81	Q	2,584	286	3,649	Q	16.1	47.6	22.2	19.62
<b>Weekly Operating Hours</b>													
39 or Fewer .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
40 to 48 .....	43	Q	123	24	956	Q	2,034	1,111	44.8	Q	60.3	21.8	18.91
49 to 60 .....	120	Q	38	26	2,111	Q	772	1,535	56.8	Q	49.3	17.1	22.37
61 to 84 .....	70	33	Q	18	1,238	2,456	357	1,026	56.6	13.4	Q	17.8	21.39
85 to 167 .....	53	25	Q	Q	503	1,227	Q	Q	104.6	20.1	Q	Q	26.78
Open Continuously .....	Q	Q	Q	Q	Q	Q	Q	272	Q	Q	Q	Q	45.06
<b>Ownership and Occupancy</b>													
Nongovernment Owned .....	284	55	268	75	4,773	3,729	3,144	3,678	59.5	14.8	85.4	20.5	16.72
Owner Occupied .....	200	34	199	56	3,580	2,456	2,274	2,738	55.8	14.0	87.5	20.4	18.77
Single Establishment .....	171	20	174	22	3,015	1,124	1,603	894	56.6	18.0	108.6	24.6	25.73
Multiple Establishment .....	29	14	25	34	565	1,332	671	1,845	51.5	10.6	37.1	18.5	24.98
Nonowner Occupied .....	84	21	Q	19	1,193	1,273	870	940	70.8	16.2	Q	20.7	25.06
Single Establishment .....	34	Q	Q	4	475	Q	278	268	72.0	Q	Q	16.5	34.15
Multiple Establishment .....	Q	20	15	15	718	1,199	592	672	Q	16.8	25.2	22.3	24.09
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned .....	17	Q	15	17	235	Q	370	654	72.0	Q	41.7	26.6	24.58
<b>Predominant Exterior Wall Material</b>													
Masonry .....	218	53	173	62	3,581	3,627	2,749	2,372	60.8	14.7	62.8	26.1	18.02
Siding or Shingles .....	21	Q	23	Q	398	Q	432	Q	52.1	Q	54.3	Q	28.71
Metal Panels .....	57	Q	Q	Q	878	Q	137	Q	64.5	Q	Q	Q	23.49
Concrete Panels .....	Q	Q	Q	11	Q	Q	Q	703	Q	Q	Q	15.6	27.41
Window Glass .....	Q	Q	Q	13	Q	Q	Q	610	Q	Q	Q	21.3	34.49
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Predominant Roof Material</b>													
Built-Up .....	167	33	120	46	2,224	2,458	1,599	1,966	75.1	13.5	75.0	23.2	22.49
Shingles (Not Wood) .....	42	Q	72	Q	822	Q	946	Q	50.5	Q	76.3	Q	22.69
Metal Surfacing .....	55	Q	Q	Q	1,128	Q	189	Q	49.0	Q	Q	Q	20.40
Synthetic or Rubber .....	30	28	15	39	551	1,318	502	1,600	54.4	21.6	30.5	24.7	23.25
Other .....	7	Q	18	Q	283	Q	278	222	25.3	Q	64.8	6.8	33.49
<b>Space-Heating Energy Source</b>													
Natural Gas .....	274	61	278	86	4,721	3,554	3,236	3,292	58.0	17.2	86.1	26.2	16.91
Natural Gas Main .....	267	51	271	81	4,517	2,747	3,013	2,912	59.0	18.5	90.0	27.7	17.90
Natural Gas Secondary .....	7	10	Q	Q	204	807	223	381	34.0	12.8	32.5	Q	33.20
Other Excluding Natural Gas .....	20	Q	5	6	261	542	279	1,031	77.3	11.9	19.4	6.2	29.13
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.35. Natural Gas Consumption and Conditional Energy Intensity for Mercantile and Office Buildings, 1992 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)				Total Floorspace of Buildings Using Natural Gas (million square feet)				Natural Gas Energy Intensity (cubic feet/sq. ft.)				RSE Row Factor
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
	1.0	1.5	1.3	1.2	0.7	1.2	0.7	0.9	0.9	0.9	1.1	0.9	
<b>Primary Space-Heating Energy Source</b>													
Electricity .....	18	15	7	Q	328	1,138	360	690	54.1	13.1	19.8	Q	25.18
Natural Gas .....	267	51	271	81	4,517	2,747	3,013	2,912	59.0	18.5	90.0	27.7	17.90
Fuel Oil .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
District Heat .....	Q	Q	Q	5	Q	Q	Q	440	Q	Q	Q	Q	12.5
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Primary Heating</b>													
Electricity Only .....	19	Q	Q	Q	507	Q	305	Q	37.4	Q	Q	Q	21.79
Natural Gas Only .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Fuel Oil Only .....	15	Q	Q	13	324	Q	Q	Q	45.9	Q	Q	Q	33.72
Propane Only .....	9	Q	8	Q	174	Q	271	Q	49.7	Q	29.3	Q	34.04
Any Other Single Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
No Replacement Energy Source .....	234	59	171	72	3,715	3,539	2,625	3,415	63.1	16.7	65.1	21.1	17.10
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Energy Source</b>													
Natural Gas .....	Q	Q	Q	Q	Q	Q	204	Q	Q	Q	Q	Q	39.12
Other Excluding Natural Gas .....	235	68	226	83	4,108	4,231	3,237	4,248	57.2	16.1	69.7	19.5	16.51
A/C Not Performed .....	54	Q	Q	Q	671	Q	Q	Q	80.6	Q	Q	Q	26.74
<b>Water-Heating Energy Source</b>													
Natural Gas .....	213	47	168	67	2,914	2,689	2,339	2,485	73.0	17.3	71.9	27.1	20.27
Other Excluding Natural Gas .....	69	21	Q	25	1,466	1,624	1,131	1,828	47.2	13.0	99.9	13.8	20.61
Water Heating Not Performed .....	19	Q	Q	Q	627	Q	Q	Q	30.6	Q	Q	Q	17.12
<b>Cooking Energy Source</b>													
Natural Gas .....	Q	41	Q	37	256	2,540	Q	1,702	Q	16.3	Q	21.8	22.73
Other Excluding Natural Gas .....	Q	6	Q	13	Q	435	Q	696	Q	14.4	Q	19.1	29.80
Cooking Not Performed .....	256	21	272	42	4,666	1,374	3,325	1,934	54.9	15.5	81.7	21.9	20.23
<b>Percent of Floorspace Heated</b>													
Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50 .....	23	Q	5	Q	823	Q	209	Q	27.5	Q	21.9	Q	26.97
51 to 99 .....	65	7	Q	19	1,103	646	682	1,220	58.6	11.4	Q	15.7	30.32
100 .....	207	41	207	72	3,056	2,578	2,623	2,684	67.6	16.1	79.0	26.7	17.27
<b>Annual Consumption (hundred cubic feet)</b>													
1,000 or Less .....	13	Q	9	Q	1,176	Q	749	Q	10.9	Q	12.3	Q	13.69
1,001 to 5,000 .....	89	Q	42	1	2,356	Q	1,450	787	38.0	Q	29.1	1.6	14.78
5,001 to 10,000 .....	48	Q	25	2	826	Q	531	327	58.4	Q	46.2	5.4	19.24
10,001 to 25,000 .....	40	10	47	14	401	911	572	1,010	98.7	10.7	82.3	13.5	20.02
25,001 to 50,000 .....	Q	22	Q	25	Q	1,029	Q	1,070	Q	21.0	Q	23.3	25.77
50,001 to 100,000 .....	Q	12	Q	16	Q	375	Q	533	Q	31.1	Q	29.4	25.98
Over 100,000 .....	Q	Q	Q	36	Q	Q	Q	448	Q	Q	Q	79.3	26.89

See footnotes at end of table.

**Table 3.35. Natural Gas Consumption and Conditional Energy Intensity for Mercantile and Office Buildings, 1992 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)				Total Floorspace of Buildings Using Natural Gas (million square feet)				Natural Gas Energy Intensity (cubic feet/sq. ft.)				RSE Row Factor
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
	1.0	1.5	1.3	1.2	0.7	1.2	0.7	0.9	0.9	0.9	1.1	0.9	
<b>Gas Transported for the Account of Others</b>													NF 15.53
Used in Building .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	
Not Used in Building .....	264	60	226	76	4,957	3,947	3,441	4,063	53.3	15.3	65.6	18.6	

NF = No applicable RSE row factor.

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. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • Small buildings are 50,000 square feet or less. Large buildings are greater than 50,000 square feet. • 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. • 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.



**Table 3.36. Natural Gas Consumption and Conditional Energy Intensity for Education, Health Care, and Food Sales and Service Buildings, 1992**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/sq. ft.)			RSE Row Factor
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
	RSE Column Factor:	1.1	1.5	1.0	1.0	1.3	1.0	0.7	0.9	
<b>All Buildings</b> .....	283	184	176	6,856	1,544	1,655	41.3	119.2	106.1	11.36
<b>Building Floorspace (square feet)</b>										
1,001 to 5,000 .....	8	3	80	169	78	536	45.3	42.8	148.5	20.84
5,001 to 10,000 .....	8	Q	49	204	Q	319	39.0	Q	152.3	20.77
10,001 to 25,000 .....	37	Q	30	676	Q	406	55.2	Q	73.0	22.64
25,001 to 50,000 .....	48	Q	Q	1,196	Q	260	39.9	Q	51.1	29.24
50,001 to 100,000 .....	81	Q	Q	1,620	Q	Q	50.3	Q	Q	13.53
100,001 to 200,000 .....	49	39	Q	1,445	379	Q	34.0	103.6	Q	24.08
200,001 to 500,000 .....	52	74	Q	1,532	472	Q	33.6	156.5	Q	28.28
Over 500,000 .....	Q	45	Q	Q	316	Q	Q	141.0	Q	19.96
<b>Year Constructed</b>										
1899 or Before .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1900 to 1919 .....	14	Q	Q	424	Q	Q	32.7	Q	Q	43.76
1920 to 1945 .....	43	Q	33	942	194	233	45.4	Q	140.0	25.68
1946 to 1959 .....	74	13	22	1,748	141	304	42.5	92.9	72.3	21.68
1960 to 1969 .....	66	55	27	1,724	429	266	38.1	129.2	101.0	24.58
1970 to 1979 .....	66	66	40	1,426	500	292	46.6	131.5	137.7	20.77
1980 to 1989 .....	17	23	34	461	234	314	35.8	97.2	109.8	21.01
1990 to 1992 .....	Q	Q	Q	Q	Q	Q	26.3	Q	Q	52.46
<b>Census Region and Division</b>										
Northeast .....	64	30	32	1,457	286	369	43.9	106.4	87.0	23.45
New England .....	12	Q	Q	312	Q	Q	38.4	Q	Q	49.77
Middle Atlantic .....	52	23	26	1,145	177	259	45.4	127.2	101.1	23.35
Midwest .....	113	67	59	2,291	453	570	49.4	148.7	103.1	18.54
East North Central .....	79	53	37	1,479	232	382	53.7	227.0	97.8	18.25
West North Central .....	34	15	21	812	221	188	41.6	66.5	114.0	38.18
South .....	63	71	40	1,933	549	360	32.6	129.3	112.6	19.45
South Atlantic .....	23	Q	15	677	Q	103	34.6	159.0	142.3	28.39
East South Central .....	15	Q	Q	458	Q	Q	32.3	Q	Q	32.25
West South Central .....	25	Q	19	798	Q	198	31.0	Q	93.8	25.46
West .....	43	15	44	1,174	257	356	36.6	59.8	124.2	22.16
Mountain .....	25	Q	Q	374	Q	Q	65.8	Q	Q	37.34
Pacific .....	18	14	33	800	226	215	23.0	60.0	154.9	24.12
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and -- More than 7,000 HDD .....	28	Q	12	491	Q	108	57.7	Q	112.9	37.67
5,500-7,000 HDD .....	122	77	59	2,192	452	603	55.7	169.6	98.2	15.56
4,000-5,499 HDD .....	56	22	35	1,711	247	384	32.7	90.8	90.8	25.64
Fewer than 4,000 HDD .....	49	59	52	1,536	578	365	32.0	101.3	143.0	22.79
More than 2,000 CDD and -- Fewer than 4,000 HDD .....	28	17	17	926	151	195	29.9	113.0	87.6	23.12
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	283	184	176	6,856	1,544	1,655	41.3	119.2	106.1	11.07
Natural Gas .....	283	184	176	6,856	1,544	1,655	41.3	119.2	106.1	11.36
Fuel Oil .....	44	144	Q	1,332	993	Q	33.1	144.8	Q	24.13
District Heat .....	Q	27	Q	Q	344	Q	Q	79.5	Q	24.36
District Chilled Water .....	3	15	Q	157	208	Q	20.7	73.1	Q	31.30
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.36. Natural Gas Consumption and Conditional Energy Intensity for Education, Health Care, and Food Sales and Service Buildings, 1992 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/sq. ft.)			RSE Row Factor
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
	1.1	1.5	1.0	1.0	1.3	1.0	0.7	0.9	0.8	
<b>Energy End Uses (more than one may apply)</b>										
Heated Buildings .....	283	184	173	6,856	1,544	1,625	41.3	119.2	106.7	11.39
Buildings with A/C .....	252	184	172	6,096	1,539	1,614	41.4	119.5	106.8	11.43
Buildings with Water Heating .....	278	184	175	6,635	1,544	1,653	41.9	119.2	106.1	11.39
Buildings with Cooking .....	203	152	165	4,975	1,164	1,391	40.7	130.3	119.0	12.97
Buildings with Manufacturing .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Workers (main shift)</b>										
Less than 5 .....	6	Q	23	231	Q	367	24.6	Q	63.1	22.52
5 to 9 .....	9	Q	53	255	Q	420	36.0	Q	125.6	26.04
10 to 19 .....	24	Q	49	498	Q	406	48.2	Q	121.7	22.71
20 to 49 .....	90	Q	41	2,179	120	331	41.5	82.3	122.7	24.00
50 to 99 .....	92	Q	Q	1,886	Q	Q	48.9	Q	Q	12.75
100 or More .....	62	165	Q	1,808	1,217	Q	34.1	135.2	Q	20.93
<b>Weekly Operating Hours</b>										
39 or Fewer .....	44	Q	Q	960	Q	Q	45.6	Q	Q	24.67
40 to 48 .....	83	Q	7	2,218	113	66	37.2	36.1	101.4	24.39
49 to 60 .....	44	6	11	1,190	110	79	37.2	51.8	133.5	27.48
61 to 84 .....	64	Q	46	1,276	Q	358	50.3	Q	128.8	16.88
85 to 167 .....	47	Q	94	1,113	Q	902	42.6	Q	104.5	23.43
Open Continuously .....	Q	151	17	Q	1,151	234	Q	131.3	72.1	22.46
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	40	131	171	1,119	1,067	1,548	35.7	123.1	110.4	13.67
Owner Occupied .....	37	127	135	1,059	1,010	1,173	34.5	125.4	114.8	14.23
Single Establishment .....	32	112	127	998	893	1,088	32.3	125.0	116.8	14.85
Multiple Establishment .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Nonowner Occupied .....	Q	Q	36	Q	Q	375	Q	Q	96.7	24.31
Single Establishment .....	Q	Q	32	Q	Q	304	Q	Q	105.8	27.00
Multiple Establishment .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned .....	243	Q	Q	5,737	477	Q	42.4	110.5	43.7	18.58
<b>Predominant Exterior Wall Material</b>										
Masonry .....	243	171	142	6,275	1,412	1,383	38.8	121.1	102.9	11.64
Siding or Shingles .....	1	Q	25	57	Q	201	25.9	Q	121.9	31.09
Metal Panels .....	4	Q	Q	117	Q	Q	37.9	Q	Q	47.40
Concrete Panels .....	Q	Q	Q	324	Q	Q	92.3	Q	Q	33.01
Window Glass .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Predominant Roof Material</b>										
Built-Up .....	134	113	66	3,587	940	680	37.4	120.3	97.5	14.56
Shingles (Not Wood) .....	17	Q	46	510	100	421	32.8	96.5	110.3	27.39
Metal Surfacing .....	17	Q	18	303	Q	134	57.0	Q	133.6	30.38
Synthetic or Rubber .....	98	56	17	1,936	447	259	50.7	125.0	66.2	22.00
Other .....	17	Q	28	520	Q	161	32.6	Q	172.4	27.53
<b>Space-Heating Energy Source</b>										
Natural Gas .....	267	166	139	5,957	1,223	1,300	44.8	135.5	107.3	12.42
Natural Gas Main .....	259	150	139	5,642	1,017	1,248	45.9	147.8	111.1	12.71
Natural Gas Secondary .....	8	Q	Q	315	Q	Q	25.2	Q	Q	38.64
Other Excluding Natural Gas .....	16	18	34	899	321	325	18.0	57.1	104.5	27.33
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.36. Natural Gas Consumption and Conditional Energy Intensity for Education, Health Care, and Food Sales and Service Buildings, 1992 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/sq. ft.)			RSE Row Factor
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
	1.1	1.5	1.0	1.0	1.3	1.0	0.7	0.9	0.8	
<b>Primary Space-Heating Energy Source</b>										
Electricity .....	11	Q	29	387	138	271	29.5	53.5	105.9	33.66
Natural Gas .....	259	150	139	5,642	1,017	1,248	45.9	147.8	111.1	12.71
Fuel Oil .....	Q	Q	Q	504	Q	Q	Q	Q	Q	28.46
District Heat .....	8	26	Q	269	327	Q	31.1	79.9	Q	26.56
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Primary Heating</b>										
Electricity Only .....	7	Q	19	Q	Q	177	34.5	Q	106.0	43.41
Natural Gas Only .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Fuel Oil Only .....	66	124	Q	1,311	676	Q	50.2	183.0	Q	23.85
Propane Only .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other Single Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
No Replacement Energy Source .....	203	55	131	5,068	718	1,182	40.0	76.4	110.9	13.16
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Energy Source</b>										
Natural Gas .....	Q	Q	Q	487	Q	Q	61.3	Q	Q	40.58
Other Excluding Natural Gas .....	222	161	163	5,609	1,433	1,560	39.6	112.6	104.5	11.75
A/C Not Performed .....	31	Q	3	759	Q	41	40.7	Q	79.7	39.20
<b>Water-Heating Energy Source</b>										
Natural Gas .....	249	159	150	5,514	1,150	1,280	45.1	138.5	117.3	11.90
Other Excluding Natural Gas .....	30	25	25	1,121	394	374	26.5	62.7	67.9	28.43
Water Heating Not Performed .....	5	Q	Q	221	Q	Q	21.6	Q	Q	33.02
<b>Cooking Energy Source</b>										
Natural Gas .....	171	139	157	4,179	1,000	1,269	40.8	139.5	123.9	13.89
Other Excluding Natural Gas .....	32	12	8	796	164	122	40.3	Q	67.1	30.32
Cooking Not Performed .....	80	32	10	1,880	380	264	42.8	85.2	38.3	22.19
<b>Percent of Floorspace Heated</b>										
Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50 .....	Q	Q	18	Q	Q	208	Q	Q	84.8	33.56
51 to 99 .....	28	21	41	979	192	364	28.7	110.0	111.6	28.66
100 .....	254	161	115	5,847	1,330	1,053	43.4	121.1	109.4	12.48
<b>Annual Consumption (hundred cubic feet)</b>										
1,000 or Less .....	3	1	3	425	43	197	7.9	17.5	13.8	26.08
1,001 to 5,000 .....	15	Q	24	1,175	Q	373	12.7	Q	63.6	16.59
5,001 to 10,000 .....	12	Q	54	535	Q	459	22.7	Q	117.3	20.58
10,001 to 25,000 .....	58	Q	63	1,630	Q	423	35.3	Q	149.6	17.06
25,001 to 50,000 .....	62	Q	Q	1,095	Q	Q	56.3	Q	Q	16.97
50,001 to 100,000 .....	57	Q	Q	1,148	Q	Q	50.1	Q	Q	23.26
Over 100,000 .....	76	162	Q	847	967	Q	89.7	167.7	Q	17.07

See footnotes at end of table.

**Table 3.36. Natural Gas Consumption and Conditional Energy Intensity for Education, Health Care, and Food Sales and Service Buildings, 1992 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/sq. ft.)			RSE Row Factor
	Educa- tion	Health Care	Food Sales and Service	Educa- tion	Health Care	Food Sales and Service	Educa- tion	Health Care	Food Sales and Service	
RSE Column Factor:	1.1	1.5	1.0	1.0	1.3	1.0	0.7	0.9	0.8	
<b>Gas Transported for the Account of Others</b>										
Used in Building .....	52	82	Q	1,205	386	Q	43.5	211.1	Q	20.40
Not Used in Building .....	231	103	169	5,651	1,158	1,604	40.8	88.5	105.4	12.90

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.37. Natural Gas Consumption and Conditional Energy Intensity in Older Buildings by Year Constructed, 1992**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/sq. ft.)			RSE Row Factor
	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	
	1.0	1.2	1.2	0.8	0.9	0.9	0.8	1.0	1.1	
RSE Column Factor:	1.0	1.2	1.2	0.8	0.9	0.9	0.8	1.0	1.1	
<b>All Buildings</b> .....	804	414	513	17,059	8,871	9,217	47.1	46.6	55.7	10.78
<b>Building Floorspace (square feet)</b>										
1,001 to 5,000 .....	132	48	66	1,798	636	761	73.3	75.6	87.2	10.97
5,001 to 10,000 .....	128	39	47	2,010	720	858	63.6	54.1	54.8	14.02
10,001 to 25,000 .....	145	99	131	2,916	1,302	1,118	49.8	76.1	117.4	20.45
25,001 to 50,000 .....	147	45	51	3,079	1,064	1,203	47.8	41.8	42.3	20.32
50,001 to 100,000 .....	79	53	56	1,929	1,255	1,258	41.1	41.9	44.6	18.16
100,001 to 200,000 .....	80	46	38	2,359	1,769	1,280	33.8	26.1	29.9	20.63
200,001 to 500,000 .....	31	Q	83	1,374	1,138	1,486	22.2	42.8	55.7	29.24
Over 500,000 .....	Q	36	40	1,594	987	1,253	39.2	36.0	32.3	31.99
<b>Principal Building Activity</b>										
Education .....	131	66	66	3,114	1,724	1,426	42.0	38.1	46.6	16.43
Food Sales .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Food Service .....	64	21	36	593	128	223	107.2	165.6	162.2	21.54
Health Care .....	40	55	66	350	429	500	113.7	129.2	131.5	29.48
Lodging .....	51	31	31	641	343	473	80.3	91.7	66.3	23.47
Mercantile and Service .....	130	97	91	3,042	2,205	1,937	42.6	44.2	46.8	22.88
Office .....	165	42	Q	2,763	1,406	1,359	59.9	29.8	Q	21.12
Parking Garage .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Public Assembly .....	34	14	33	853	423	726	40.0	33.6	45.1	22.75
Public Order and Safety .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Religious Worship .....	39	10	9	1,715	558	323	22.9	18.0	28.3	22.07
Warehouse and Storage .....	57	42	46	2,112	982	1,324	26.9	42.4	34.6	21.56
Other .....	Q	16	Q	348	165	Q	135.6	95.7	Q	37.98
Vacant .....	26	Q	Q	1,154	Q	Q	22.6	Q	Q	32.45
<b>Census Region and Division</b>										
Northeast .....	131	80	65	4,061	1,715	1,260	32.3	46.7	51.5	18.56
New England .....	23	Q	26	745	Q	360	31.2	Q	71.9	31.63
Middle Atlantic .....	108	71	39	3,316	1,562	900	32.5	45.6	43.3	20.91
Midwest .....	308	131	162	5,629	2,035	3,149	54.8	64.5	51.6	12.90
East North Central .....	236	96	93	4,001	1,425	1,734	59.1	67.3	53.6	14.20
West North Central .....	72	35	70	1,628	610	1,415	44.2	58.0	49.1	25.29
South .....	254	137	171	4,523	3,141	2,613	56.1	43.7	65.6	23.58
South Atlantic .....	Q	Q	36	1,320	1,479	870	81.5	45.8	41.0	29.74
East South Central .....	57	25	33	991	610	719	57.3	40.3	45.8	21.82
West South Central .....	89	Q	Q	2,212	1,052	1,024	40.3	Q	100.4	32.67
West .....	111	65	114	2,846	1,980	2,195	39.1	32.8	52.0	19.85
Mountain .....	57	15	34	910	385	557	63.1	38.8	60.6	22.79
Pacific .....	54	50	Q	1,936	1,596	1,638	27.8	31.4	49.1	24.40
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and --										
More than 7,000 HDD .....	58	36	55	1,342	541	1,161	43.4	67.4	47.3	22.94
5,500-7,000 HDD .....	324	125	154	6,232	1,886	2,747	52.0	66.4	55.9	13.25
4,000-5,499 HDD .....	207	88	77	4,333	2,692	1,532	47.7	32.8	50.1	20.27
Fewer than 4,000 HDD .....	101	137	121	2,983	2,531	2,617	34.0	54.3	46.3	24.48
More than 2,000 CDD and --										
Fewer than 4,000 HDD .....	113	26	Q	2,168	1,220	1,158	52.3	21.6	Q	24.92
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	804	414	513	17,059	8,871	9,215	47.1	46.6	55.7	10.48
Natural Gas .....	804	414	513	17,059	8,871	9,217	47.1	46.6	55.7	10.78
Fuel Oil .....	114	88	106	2,537	1,618	1,811	45.0	54.6	58.4	25.48
District Heat .....	38	16	Q	1,061	547	Q	35.4	29.7	Q	36.86
District Chilled Water .....	Q	14	Q	Q	250	Q	Q	55.9	Q	29.84
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	8	Q	Q	387	Q	Q	20.6	Q	Q	30.49

See footnotes at end of table.

**Table 3.37. Natural Gas Consumption and Conditional Energy Intensity in Older Buildings by Year Constructed, 1992 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/sq. ft.)			RSE Row Factor
	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	
	1.0	1.2	1.2	0.8	0.9	0.9	0.8	1.0	1.1	
RSE Column Factor:	1.0	1.2	1.2	0.8	0.9	0.9	0.8	1.0	1.1	
<b>Energy End Uses (more than one may apply)</b>										
Heated Buildings .....	802	404	510	16,963	8,822	8,938	47.3	45.8	57.1	10.79
Buildings with A/C .....	696	370	496	14,844	8,162	8,775	46.9	45.3	56.5	11.42
Buildings with Water Heating .....	781	407	497	16,147	8,500	8,840	48.3	47.8	56.2	11.04
Buildings with Cooking .....	297	200	247	6,128	4,163	4,115	48.5	48.0	59.9	13.77
Buildings with Manufacturing .....	74	16	40	1,206	283	533	61.5	58.1	74.8	31.83
<b>Workers (main shift)</b>										
Less than 5 .....	153	51	73	3,857	1,604	1,502	39.8	31.8	48.8	12.34
5 to 9 .....	106	40	Q	2,422	661	709	43.9	61.0	Q	15.34
10 to 19 .....	99	48	77	2,351	922	1,136	42.3	52.1	67.6	21.92
20 to 49 .....	208	87	80	3,149	1,728	1,616	66.0	50.3	49.6	19.76
50 to 99 .....	111	73	45	2,469	1,299	1,018	44.9	56.3	44.3	24.33
100 or More .....	126	114	147	2,810	2,658	3,236	45.0	43.0	45.4	19.20
<b>Weekly Operating Hours</b>										
39 or Fewer .....	75	29	35	2,233	805	612	33.6	36.6	56.9	20.43
40 to 48 .....	178	63	57	4,436	1,668	1,551	40.2	38.0	36.6	12.61
49 to 60 .....	181	72	94	4,412	1,600	1,473	41.0	45.2	63.5	23.34
61 to 84 .....	120	72	133	2,456	2,052	2,177	49.0	35.2	61.3	21.08
85 to 167 .....	98	68	78	1,960	1,548	1,730	50.0	43.8	44.9	19.86
Open Continuously .....	151	109	117	1,562	1,198	1,674	97.0	90.7	69.7	23.38
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	633	282	390	12,773	5,925	6,938	49.6	47.5	56.2	12.51
Owner Occupied .....	492	238	307	9,932	4,805	5,357	49.5	49.6	57.2	12.60
Single Establishment .....	408	218	272	7,415	4,052	4,039	55.0	53.8	67.3	13.48
Multiple Establishment .....	84	21	35	2,517	753	1,318	33.4	27.2	26.5	22.35
Nonowner Occupied .....	131	39	80	2,628	1,002	1,482	49.8	39.4	53.8	26.00
Single Establishment .....	99	18	28	1,305	337	560	Q	54.4	50.1	26.27
Multiple Establishment .....	32	21	Q	1,323	665	921	24.3	31.7	Q	22.56
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned .....	171	132	123	4,286	2,946	2,279	39.9	44.9	54.0	17.40
<b>Predominant Exterior Wall Material</b>										
Masonry .....	705	317	349	15,360	6,409	6,554	45.9	49.5	53.3	11.68
Siding or Shingles .....	42	9	18	900	242	299	46.6	39.0	60.3	22.94
Metal Panels .....	Q	35	Q	460	791	853	Q	44.1	Q	29.77
Concrete Panels .....	Q	38	48	Q	1,121	1,104	Q	34.2	43.1	30.35
Window Glass .....	Q	11	7	Q	188	291	Q	56.9	25.1	31.50
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Predominant Roof Material</b>										
Built-Up .....	416	229	202	8,535	5,107	4,126	48.8	44.8	49.0	15.13
Shingles (Not Wood) .....	156	42	52	3,449	879	1,175	45.2	47.9	44.5	14.54
Metal Surfacing .....	Q	33	106	689	785	1,146	Q	Q	92.5	29.70
Synthetic or Rubber .....	119	83	130	2,903	1,663	2,132	41.2	50.2	61.1	16.57
Other .....	65	27	22	1,483	436	637	44.2	61.6	Q	24.84
<b>Space-Heating Energy Source</b>										
Natural Gas .....	747	376	446	14,964	7,858	7,649	49.9	47.8	58.3	11.47
Natural Gas Main .....	696	361	422	13,989	7,223	7,026	49.7	50.0	60.1	11.72
Natural Gas Secondary .....	Q	14	23	975	634	623	Q	22.5	37.4	27.77
Other Excluding Natural Gas .....	55	29	64	1,999	965	1,289	27.5	29.9	49.9	20.42
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.37. Natural Gas Consumption and Conditional Energy Intensity in Older Buildings by Year Constructed, 1992 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/sq. ft.)			RSE Row Factor
	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	
	RSE Column Factor:	1.0	1.2	1.2	0.8	0.9	0.9	0.8	1.0	
<b>Primary Space-Heating Energy Source</b>										
Electricity .....	40	22	60	905	725	1,275	44.8	31.0	47.0	20.68
Natural Gas .....	696	361	422	13,989	7,223	7,026	49.7	50.0	60.1	11.72
Fuel Oil .....	7	Q	Q	885	Q	Q	7.8	Q	Q	31.31
District Heat .....	34	13	Q	933	504	276	36.8	25.4	Q	30.82
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Primary Heating</b>										
Electricity Only .....	31	11	Q	845	385	387	36.8	29.4	Q	20.75
Natural Gas Only .....	14	Q	Q	418	Q	Q	33.0	Q	Q	31.86
Fuel Oil Only .....	119	77	110	1,867	1,248	1,295	64.0	62.0	85.1	26.91
Propane Only .....	18	Q	16	447	Q	407	40.1	Q	39.7	23.03
Any Other Single Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source .....	12	Q	Q	324	Q	Q	38.2	Q	Q	26.87
No Replacement Energy Source .....	603	280	299	12,863	6,351	6,519	46.9	44.1	45.8	11.98
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Energy Source</b>										
Natural Gas .....	112	20	33	593	428	423	188.9	45.7	77.1	31.43
Other Excluding Natural Gas .....	584	350	463	14,250	7,734	8,351	41.0	45.3	55.5	11.30
A/C Not Performed .....	108	44	17	2,215	709	442	48.7	61.6	39.0	21.44
<b>Water-Heating Energy Source</b>										
Natural Gas .....	633	346	353	11,756	6,536	5,733	53.9	53.0	61.6	12.20
Other Excluding Natural Gas .....	147	60	144	4,391	1,964	3,107	33.6	30.7	46.4	20.30
Water Heating Not Performed .....	24	7	16	912	371	377	25.9	19.0	42.1	19.70
<b>Cooking Energy Source</b>										
Natural Gas .....	251	170	224	5,097	3,455	3,502	49.2	49.3	63.9	15.16
Other Excluding Natural Gas .....	47	30	23	1,030	709	613	45.2	41.9	37.6	25.60
Cooking Not Performed .....	507	214	266	10,931	4,708	5,102	46.4	45.4	52.2	14.34
<b>Percent of Floorspace Heated</b>										
Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50 .....	92	34	27	3,322	1,491	1,080	27.7	22.5	25.2	30.62
51 to 99 .....	99	50	149	3,075	1,527	1,431	32.3	32.7	104.3	20.96
100 .....	611	321	334	10,566	5,804	6,427	57.8	55.3	51.9	10.84
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	46	26	55	1,191	730	1,019	38.9	35.1	54.2	26.27
Furnaces .....	279	145	148	6,303	3,091	2,321	44.3	46.8	63.6	20.79
Individual Space Heaters .....	250	137	156	5,454	3,024	3,836	45.8	45.2	40.8	16.44
District Heat .....	Q	13	28	1,109	506	488	53.8	25.5	58.4	35.00
Boilers .....	387	228	181	7,587	3,541	3,218	51.0	64.5	56.3	13.20
Packaged Heating Units .....	172	101	159	3,097	2,726	3,003	55.7	36.9	52.8	17.17
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Annual Consumption (hundred cubic feet)</b>										
1,000 or Less .....	22	7	8	2,358	1,143	943	9.2	6.1	8.3	14.65
1,001 to 5,000 .....	122	44	53	4,769	2,021	2,184	25.7	21.6	24.2	10.79
5,001 to 10,000 .....	103	37	55	2,537	907	1,207	40.7	41.3	45.5	13.26
10,001 to 25,000 .....	149	70	78	2,981	1,658	1,575	50.1	42.1	49.2	15.29
25,001 to 50,000 .....	109	65	45	1,870	1,031	982	58.2	63.1	45.7	18.56
50,001 to 100,000 .....	94	45	34	1,032	666	732	91.2	67.7	46.7	24.24
Over 100,000 .....	205	146	241	1,512	1,446	1,593	135.4	100.8	151.3	28.60

See footnotes at end of table.

**Table 3.37. Natural Gas Consumption and Conditional Energy Intensity in Older Buildings by Year Constructed, 1992 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/sq. ft.)			RSE Row Factor
	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	
	RSE Column Factor:	1.0	1.2	1.2	0.8	0.9	0.9	0.8	1.0	
<b>Gas Transported for the Account of Others</b>										
Used in Building .....	158	59	101	1,246	710	986	126.5	83.7	102.6	34.49
Not Used in Building .....	647	354	412	15,813	8,162	8,231	40.9	43.4	50.0	10.45

NF = No applicable RSE row factor.

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. • 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. • 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.



**Table 3.38. Natural Gas Consumption and Conditional Energy Intensity in Newer Buildings by Year Constructed, 1992**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/sq. ft.)			RSE Row Factor
	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	
	1.0	1.2	1.3	0.7	1.0	1.1	0.8	0.9	1.1	
RSE Column Factor:	1.0	1.2	1.3	0.7	1.0	1.1	0.8	0.9	1.1	RSE Row Factor
<b>All Buildings</b> .....	261	75	47	6,265	1,957	1,625	41.6	38.2	28.7	14.79
<b>Building Floorspace (square feet)</b>										
1,001 to 5,000 .....	Q	11	3	373	127	56	Q	85.0	46.6	26.95
5,001 to 10,000 .....	17	10	3	420	163	91	40.2	62.6	34.8	27.34
10,001 to 25,000 .....	30	12	Q	884	400	214	33.4	31.0	39.2	23.61
25,001 to 50,000 .....	50	16	7	656	260	259	75.5	61.6	25.2	28.94
50,001 to 100,000 .....	40	Q	Q	857	270	167	46.8	41.0	50.4	30.11
100,001 to 200,000 .....	27	5	4	1,283	256	185	20.8	20.6	21.7	32.81
200,001 to 500,000 .....	29	Q	11	890	Q	471	32.6	27.9	23.6	33.44
Over 500,000 .....	17	2	2	902	238	181	18.8	9.5	12.9	29.32
<b>Principal Building Activity</b>										
Education .....	13	3	Q	371	90	Q	36.2	34.0	26.3	25.23
Food Sales .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Food Service .....	17	Q	Q	100	Q	Q	172.8	Q	Q	35.08
Health Care .....	21	Q	Q	186	Q	Q	110.5	Q	Q	34.77
Lodging .....	48	Q	6	458	Q	96	104.4	Q	59.3	32.35
Mercantile and Service .....	37	8	Q	1,474	362	336	24.8	21.5	Q	24.73
Office .....	Q	14	11	1,270	617	431	Q	23.0	26.2	22.66
Parking Garage .....	Q	Q	Q	Q	Q	29	Q	Q	21.0	36.20
Public Assembly .....	8	Q	Q	314	Q	156	25.4	Q	Q	38.25
Public Order and Safety .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Religious Worship .....	3	Q	Q	220	Q	Q	14.8	Q	Q	37.28
Warehouse and Storage .....	36	8	3	1,379	306	230	25.8	25.3	11.3	29.77
Other .....	Q	Q	Q	75	Q	Q	84.0	Q	Q	62.26
Vacant .....	6	Q	Q	Q	Q	Q	Q	Q	66.2	17.54
<b>Census Region and Division</b>										
Northeast .....	48	13	7	1,048	311	164	45.8	42.4	42.5	34.62
New England .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Middle Atlantic .....	Q	6	Q	634	243	142	65.2	24.7	44.1	32.37
Midwest .....	87	20	17	2,003	433	527	43.4	46.5	32.8	21.06
East North Central .....	51	12	13	938	240	308	53.9	51.9	43.6	25.86
West North Central .....	36	8	4	1,064	192	219	34.2	39.9	17.7	31.69
South .....	77	24	14	1,863	746	476	41.2	32.9	29.1	28.88
South Atlantic .....	14	3	5	612	258	Q	23.3	13.2	Q	31.74
East South Central .....	20	Q	Q	525	214	190	38.9	54.7	40.4	24.35
West South Central .....	Q	9	Q	726	273	82	Q	34.4	18.5	31.65
West .....	49	17	8	1,352	468	458	36.2	36.3	18.4	26.38
Mountain .....	22	Q	Q	436	129	Q	51.4	18.2	Q	32.51
Pacific .....	27	15	7	916	339	314	29.0	43.3	20.7	32.37
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and --										
More than 7,000 HDD .....	27	Q	Q	499	Q	Q	55.1	Q	Q	35.61
5,500-7,000 HDD .....	82	23	17	1,858	452	541	44.0	50.8	31.7	24.82
4,000-5,499 HDD .....	43	10	9	1,250	366	323	34.4	27.0	28.9	28.18
Fewer than 4,000 HDD .....	51	29	16	1,580	745	552	32.4	39.1	28.3	23.61
More than 2,000 CDD and --										
Fewer than 4,000 HDD .....	Q	8	3	1,078	321	138	Q	25.1	19.6	32.59
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	260	75	47	6,260	1,957	1,624	41.6	38.2	28.7	15.44
Natural Gas .....	261	75	47	6,265	1,957	1,625	41.6	38.2	28.7	14.79
Fuel Oil .....	51	18	21	1,432	460	568	35.8	38.9	37.2	31.84
District Heat .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
District Chilled Water .....	Q	Q	Q	145	Q	62	85.9	Q	Q	47.25
Propane .....	Q	Q	Q	Q	Q	Q	33.6	Q	Q	31.98
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.38. Natural Gas Consumption and Conditional Energy Intensity in Newer Buildings by Year Constructed, 1992 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/sq. ft.)			RSE Row Factor
	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	
	1.0	1.2	1.3	0.7	1.0	1.1	0.8	0.9	1.1	
<b>Energy End Uses (more than one may apply)</b>										
Heated Buildings .....	261	74	47	6,249	1,954	1,600	41.7	37.8	29.1	14.79
Buildings with A/C .....	251	72	46	6,070	1,904	1,569	41.4	37.7	29.0	15.02
Buildings with Water Heating .....	256	73	45	6,064	1,922	1,574	42.2	38.0	28.4	15.29
Buildings with Cooking .....	114	36	21	2,564	877	612	44.4	41.2	34.8	22.84
Buildings with Manufacturing .....	18	Q	Q	412	Q	Q	44.5	Q	Q	39.19
<b>Workers (main shift)</b>										
Less than 5 .....	30	9	5	755	164	170	39.5	55.5	29.8	29.05
5 to 9 .....	Q	6	3	432	160	115	Q	35.3	23.5	24.67
10 to 19 .....	24	14	Q	682	233	149	35.5	60.1	49.8	25.43
20 to 49 .....	61	19	6	1,133	417	315	53.9	44.5	18.1	30.15
50 to 99 .....	27	9	7	692	281	215	39.1	32.0	31.2	26.75
100 or More .....	73	19	19	2,571	702	661	28.5	26.4	28.7	25.92
<b>Weekly Operating Hours</b>										
39 or Fewer .....	3	Q	2	213	Q	104	13.3	Q	21.2	32.45
40 to 48 .....	60	10	9	1,153	386	336	51.9	25.4	27.8	27.36
49 to 60 .....	32	9	7	1,190	412	465	26.9	21.1	15.6	21.14
61 to 84 .....	45	10	5	1,853	376	218	24.3	25.4	21.3	22.38
85 to 167 .....	31	19	Q	730	343	199	42.5	54.7	48.1	31.93
Open Continuously .....	90	25	14	1,127	387	303	79.9	65.5	Q	28.57
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	222	66	34	5,565	1,708	1,174	39.9	38.7	29.1	16.49
Owner Occupied .....	189	49	32	4,014	1,118	901	47.0	43.8	35.1	18.24
Single Establishment .....	166	44	27	2,523	899	692	65.9	48.6	38.5	19.78
Multiple Establishment .....	23	5	Q	1,491	220	208	15.1	24.0	23.9	32.62
Nonowner Occupied .....	32	17	3	1,505	575	274	21.1	29.4	9.4	23.70
Single Establishment .....	10	10	Q	299	224	Q	31.8	42.7	8.9	35.59
Multiple Establishment .....	22	7	1	1,206	351	130	18.5	20.9	9.8	28.53
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned .....	39	9	12	700	249	450	55.4	35.0	27.6	27.22
<b>Predominant Exterior Wall Material</b>										
Masonry .....	156	51	30	3,649	1,247	1,068	42.7	40.5	27.7	17.58
Siding or Shingles .....	19	8	Q	399	83	Q	47.6	94.6	Q	33.64
Metal Panels .....	61	5	3	1,073	180	92	57.3	28.2	34.8	32.07
Concrete Panels .....	15	Q	7	547	Q	307	27.0	31.7	23.4	33.30
Window Glass .....	3	Q	1	287	105	41	11.6	7.9	13.5	31.07
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Predominant Roof Material</b>										
Built-Up .....	87	20	15	2,344	689	486	37.0	29.3	30.6	23.97
Shingles (Not Wood) .....	60	7	3	787	98	123	75.7	74.2	22.7	34.43
Metal Surfacing .....	40	15	5	1,067	394	204	37.7	38.0	25.1	21.10
Synthetic or Rubber .....	55	23	21	1,355	603	670	40.9	37.4	31.3	25.82
Other .....	19	10	Q	712	174	141	26.3	56.7	19.9	37.65
<b>Space-Heating Energy Source</b>										
Natural Gas .....	217	58	41	5,117	1,555	1,325	42.3	37.1	30.8	16.39
Natural Gas Main .....	195	57	39	4,180	1,485	1,225	46.6	38.4	31.7	16.75
Natural Gas Secondary .....	22	Q	Q	936	Q	Q	23.0	Q	Q	38.33
Other Excluding Natural Gas .....	44	16	6	1,133	399	276	38.9	40.8	20.8	23.49
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.38. Natural Gas Consumption and Conditional Energy Intensity in Newer Buildings by Year Constructed, 1992 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/sq. ft.)			RSE Row Factor
	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	
	1.0	1.2	1.3	0.7	1.0	1.1	0.8	0.9	1.1	
<b>Primary Space-Heating Energy Source</b>										
Electricity .....	44	Q	6	1,648	397	296	26.5	33.1	21.8	26.91
Natural Gas .....	195	57	39	4,180	1,485	1,225	46.6	38.4	31.7	16.75
Fuel Oil .....	Q	Q	Q	Q	Q	Q	1.5	Q	Q	16.55
District Heat .....	22	Q	Q	398	Q	72	55.0	Q	Q	36.58
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Primary Heating</b>										
Electricity Only .....	Q	Q	Q	318	113	Q	Q	Q	Q	39.08
Natural Gas Only .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Fuel Oil Only .....	31	Q	Q	416	Q	81	75.0	Q	75.0	29.85
Propane Only .....	Q	Q	Q	240	Q	Q	Q	Q	Q	55.72
Any Other Single Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
No Replacement Energy Source .....	163	60	38	5,071	1,546	1,396	32.1	38.6	27.2	13.82
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Energy Source</b>										
Natural Gas .....	Q	Q	Q	368	Q	Q	35.5	Q	Q	32.34
Other Excluding Natural Gas .....	238	70	44	5,703	1,855	1,525	41.8	37.7	29.0	15.43
A/C Not Performed .....	9	Q	Q	195	53	Q	47.6	Q	18.3	32.59
<b>Water-Heating Energy Source</b>										
Natural Gas .....	174	57	34	3,634	1,175	1,117	47.9	48.7	30.0	15.87
Other Excluding Natural Gas .....	82	16	11	2,430	747	457	33.6	21.2	24.4	26.25
Water Heating Not Performed .....	5	Q	Q	201	Q	50	23.3	Q	37.2	41.45
<b>Cooking Energy Source</b>										
Natural Gas .....	102	33	13	1,950	748	452	52.2	44.8	28.9	24.85
Other Excluding Natural Gas .....	12	3	Q	614	129	Q	19.6	20.3	Q	32.81
Cooking Not Performed .....	147	39	25	3,701	1,080	1,013	39.7	35.9	25.0	16.28
<b>Percent of Floorspace Heated</b>										
Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50 .....	10	Q	1	875	240	Q	12.0	21.6	Q	34.10
51 to 99 .....	32	15	7	1,101	305	247	29.0	49.5	27.2	28.82
100 .....	218	54	38	4,274	1,410	1,176	51.0	38.1	32.7	15.85
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	65	Q	6	1,316	179	222	49.5	47.7	27.8	39.26
Furnaces .....	105	18	9	1,893	415	307	55.4	42.6	30.9	26.99
Individual Space Heaters .....	109	18	18	2,709	631	567	40.2	28.4	31.3	22.83
District Heat .....	22	Q	Q	406	81	89	54.0	Q	Q	36.57
Boilers .....	78	17	19	1,806	436	434	43.1	38.4	43.0	25.54
Packaged Heating Units .....	81	40	14	2,367	960	752	34.2	41.3	19.1	20.64
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Annual Consumption (hundred cubic feet)</b>										
1,000 or Less .....	4	1	1	542	182	143	8.2	7.9	5.5	23.60
1,001 to 5,000 .....	31	12	7	1,567	488	425	19.8	23.6	15.8	17.83
5,001 to 10,000 .....	21	8	Q	549	256	Q	38.0	29.5	Q	27.98
10,001 to 25,000 .....	40	17	6	1,076	388	369	37.2	43.1	17.4	24.99
25,001 to 50,000 .....	36	18	6	1,110	345	183	32.8	51.7	31.2	33.22
50,001 to 100,000 .....	38	Q	5	668	Q	94	56.3	Q	48.8	25.61
Over 100,000 .....	90	Q	18	751	Q	205	119.9	Q	86.8	38.83

See footnotes at end of table.

**Table 3.38. Natural Gas Consumption and Conditional Energy Intensity in Newer Buildings by Year Constructed, 1992 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/sq. ft.)			RSE Row Factor
	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	
RSE Column Factor:	1.0	1.2	1.3	0.7	1.0	1.1	0.8	0.9	1.1	
<b>Gas Transported for the Account of Others</b>										
Used in Building .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Not Used in Building .....	246	73	38	6,100	1,905	1,502	40.3	38.4	25.2	14.91

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.39. Natural Gas Consumption and Conditional Energy Intensity for Buildings Heated with Natural Gas, 1992**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)		Total Floorspace of Buildings Using Natural Gas (million square feet)		Natural Gas Energy Intensity (cubic feet/sq. ft.)		RSE Row Factor
	All Buildings Heated with Natural Gas	Buildings with Natural Gas Main Heating	All Buildings Heated with Natural Gas	Buildings with Natural Gas Main Heating	All Buildings Heated with Natural Gas	Buildings with Natural Gas Main Heating	
	1.2	1.2	0.8	0.9	1.0	1.0	
<b>All Buildings</b> .....	1,884	1,770	38,467	35,129	49.0	50.4	6.41
<b>Building Floorspace (square feet)</b>							
1,001 to 5,000 .....	274	267	3,399	3,241	80.6	82.4	10.11
5,001 to 10,000 .....	208	202	3,889	3,644	53.6	55.5	7.16
10,001 to 25,000 .....	397	386	6,105	5,763	65.0	67.0	13.07
25,001 to 50,000 .....	280	269	5,648	5,377	49.5	49.9	16.47
50,001 to 100,000 .....	216	201	5,033	4,547	43.0	44.1	10.60
100,001 to 200,000 .....	187	172	6,212	5,420	30.2	31.8	12.06
200,001 to 500,000 .....	189	177	4,544	4,225	41.5	41.8	18.51
Over 500,000 .....	132	97	3,637	2,912	36.3	33.4	24.62
<b>Principal Building Activity</b>							
Education .....	267	259	5,957	5,642	44.8	45.9	9.75
Food Sales .....	22	22	445	398	49.6	54.3	23.24
Food Service .....	117	117	855	850	137.3	137.7	13.96
Health Care .....	166	150	1,223	1,017	135.5	147.8	17.09
Lodging .....	125	108	1,298	1,004	96.7	107.8	21.09
Mercantile and Service .....	335	318	8,275	7,264	40.5	43.7	13.17
Office .....	365	352	6,528	5,924	55.9	59.4	16.70
Parking Garage .....	Q	Q	Q	Q	Q	Q	NF
Public Assembly .....	87	80	2,267	2,024	38.3	39.3	14.24
Public Order and Safety .....	36	35	480	468	74.1	74.5	23.61
Religious Worship .....	61	59	2,672	2,612	22.8	22.7	12.39
Warehouse and Storage .....	181	175	5,920	5,612	30.5	31.2	12.87
Other .....	75	51	633	535	119.1	95.8	27.17
Vacant .....	38	36	1,583	1,450	24.3	25.1	24.35
<b>Year Constructed</b>							
1899 or Before .....	57	53	1,150	1,070	49.9	49.2	17.93
1900 to 1919 .....	88	84	2,345	2,292	37.6	36.5	16.30
1920 to 1945 .....	278	245	4,960	4,513	56.1	54.3	13.99
1946 to 1959 .....	323	315	6,509	6,115	49.7	51.4	14.87
1960 to 1969 .....	376	361	7,858	7,223	47.8	50.0	11.57
1970 to 1979 .....	446	422	7,649	7,026	58.3	60.1	13.94
1980 to 1989 .....	274	252	6,671	5,665	41.1	44.5	13.15
1990 to 1992 .....	41	39	1,325	1,225	30.8	31.7	19.11
<b>Census Region and Division</b>							
Northeast .....	318	301	6,871	6,049	46.3	49.8	13.69
New England .....	60	57	1,153	805	52.0	70.6	21.48
Middle Atlantic .....	258	245	5,718	5,244	45.2	46.7	15.96
Midwest .....	667	638	12,289	11,459	54.3	55.7	7.76
East North Central .....	475	457	7,830	7,356	60.7	62.1	9.50
West North Central .....	193	182	4,459	4,103	43.2	44.3	15.60
South .....	603	554	11,563	10,637	52.2	52.1	14.78
South Atlantic .....	207	197	3,945	3,627	52.5	54.2	27.80
East South Central .....	130	120	2,883	2,665	45.2	45.2	15.65
West South Central .....	266	237	4,735	4,345	56.2	54.5	22.99
West .....	294	277	7,744	6,984	38.0	39.6	12.79
Mountain .....	107	98	2,183	2,029	48.9	48.3	15.01
Pacific .....	188	179	5,561	4,956	33.8	36.1	17.77
<b>Climate Zone: 45-Year Average</b>							
Fewer than 2,000 CDD and --							
More than 7,000 HDD .....	175	157	3,360	3,010	52.2	52.2	15.96
5,500-7,000 HDD .....	681	656	12,265	11,366	55.5	57.7	8.67
4,000-5,499 HDD .....	380	356	8,528	7,595	44.6	46.8	16.35
Fewer than 4,000 HDD .....	376	365	9,373	8,783	40.1	41.5	17.70
More than 2,000 CDD and --							
Fewer than 4,000 HDD .....	272	237	4,941	4,375	55.1	54.1	22.63

See footnotes at end of table.

**Table 3.39. Natural Gas Consumption and Conditional Energy Intensity for Buildings Heated with Natural Gas, 1992 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)		Total Floorspace of Buildings Using Natural Gas (million square feet)		Natural Gas Energy Intensity (cubic feet/sq. ft.)		RSE Row Factor
	All Buildings Heated with Natural Gas	Buildings with Natural Gas Main Heating	All Buildings Heated with Natural Gas	Buildings with Natural Gas Main Heating	All Buildings Heated with Natural Gas	Buildings with Natural Gas Main Heating	
	1.2	1.2	0.8	0.9	1.0	1.0	
<b>Energy Sources (more than one may apply)</b>							
Electricity .....	1,883	1,770	38,460	35,122	49.0	50.4	6.34
Natural Gas .....	1,884	1,770	38,467	35,129	49.0	50.4	6.41
Fuel Oil .....	350	318	5,951	4,680	58.8	68.0	13.69
District Heat .....	36	Q	549	Q	65.2	Q	33.35
District Chilled Water .....	15	Q	338	Q	44.4	Q	30.62
Propane .....	36	34	725	675	50.0	50.3	25.04
Any Other .....	16	12	649	302	23.9	39.3	24.78
<b>Energy End Uses (more than one may apply)</b>							
Heated Buildings .....	1,884	1,770	38,467	35,129	49.0	50.4	6.41
Buildings with A/C .....	1,725	1,620	35,258	32,106	48.9	50.5	6.84
Buildings with Water Heating .....	1,834	1,721	36,621	33,374	50.1	51.6	6.52
Buildings with Cooking .....	818	764	14,606	12,900	56.0	59.2	8.20
Buildings with Manufacturing .....	145	118	2,196	2,002	66.1	59.2	20.96
<b>Workers (main shift)</b>							
Less than 5 .....	267	259	7,077	6,712	37.8	38.7	7.75
5 to 9 .....	272	267	4,112	3,946	66.1	67.6	17.40
10 to 19 .....	241	229	4,808	4,504	50.1	50.9	14.63
20 to 49 .....	400	384	7,502	7,024	53.3	54.7	13.08
50 to 99 .....	242	202	5,274	4,514	45.9	44.7	16.37
100 or More .....	462	429	9,695	8,429	47.6	50.9	11.10
<b>Weekly Operating Hours</b>							
39 or Fewer .....	125	123	3,471	3,368	36.1	36.5	12.85
40 to 48 .....	360	349	8,680	8,127	41.4	42.9	9.96
49 to 60 .....	373	339	8,604	8,083	43.3	41.9	12.32
61 to 84 .....	357	337	7,742	6,715	46.1	50.2	14.22
85 to 167 .....	258	248	5,509	5,039	46.8	49.1	12.01
Open Continuously .....	411	375	4,462	3,797	92.2	98.8	15.44
<b>Ownership and Occupancy</b>							
Nongovernment Owned .....	1,448	1,349	29,323	26,528	49.4	50.8	7.25
Owner Occupied .....	1,152	1,069	22,329	20,094	51.6	53.2	7.20
Single Establishment .....	995	921	17,116	15,527	58.1	59.3	7.84
Multiple Establishment .....	156	148	5,212	4,567	30.0	32.4	13.25
Nonowner Occupied .....	279	264	6,570	6,059	42.5	43.6	17.32
Single Establishment .....	152	148	2,566	2,368	59.4	62.3	28.04
Multiple Establishment .....	127	117	4,003	3,691	31.7	31.6	20.12
Vacant .....	17	15	424	374	39.5	41.1	31.87
Government Owned .....	436	421	9,145	8,601	47.7	49.0	10.01
<b>Predominant Exterior Wall Material</b>							
Masonry .....	1,436	1,361	29,036	26,529	49.4	51.3	6.99
Siding or Shingles .....	89	86	1,772	1,584	50.2	54.1	13.59
Metal Panels .....	214	185	3,238	2,930	66.0	63.1	23.49
Concrete Panels .....	102	98	2,969	2,749	34.4	35.7	17.93
Window Glass .....	27	24	825	749	32.4	32.1	22.92
Other .....	17	17	628	589	26.6	28.4	23.57
<b>Predominant Roof Material</b>							
Built-Up .....	883	835	17,897	16,323	49.3	51.2	9.21
Shingles (Not Wood) .....	282	269	5,895	5,590	47.8	48.1	11.27
Metal Surfacing .....	227	196	4,086	3,614	55.5	54.3	20.05
Synthetic or Rubber .....	381	366	7,765	7,163	49.0	51.1	10.46
Other .....	111	104	2,824	2,439	39.4	42.7	15.90

See footnotes at end of table.

**Table 3.39. Natural Gas Consumption and Conditional Energy Intensity for Buildings Heated with Natural Gas, 1992 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)		Total Floorspace of Buildings Using Natural Gas (million square feet)		Natural Gas Energy Intensity (cubic feet/sq. ft.)		RSE Row Factor
	All Buildings Heated with Natural Gas	Buildings with Natural Gas Main Heating	All Buildings Heated with Natural Gas	Buildings with Natural Gas Main Heating	All Buildings Heated with Natural Gas	Buildings with Natural Gas Main Heating	
	1.2	1.2	0.8	0.9	1.0	1.0	
<b>Space-Heating Energy Source</b>							
Natural Gas .....	1,884	1,770	38,467	35,129	49.0	50.4	6.41
Natural Gas Main .....	1,770	1,770	35,129	35,129	50.4	50.4	6.57
Natural Gas Secondary .....	113	Q	3,338	Q	34.0	Q	23.17
Other Excluding Natural Gas .....	Q	Q	Q	Q	Q	Q	NF
Building Not Heated .....	Q	Q	Q	Q	Q	Q	NF
<b>Primary Space-Heating Energy Source</b>							
Electricity .....	56	Q	2,178	Q	25.7	Q	17.60
Natural Gas .....	1,770	1,770	35,129	35,129	50.4	50.4	6.57
Fuel Oil .....	8	Q	450	Q	16.9	Q	31.85
District Heat .....	23	Q	315	Q	73.1	Q	29.26
Propane .....	Q	Q	Q	Q	Q	Q	NF
Wood .....	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Primary Heating</b>							
Electricity Only .....	152	152	2,096	2,096	72.6	72.6	26.85
Natural Gas Only .....	8	Q	608	Q	13.4	Q	33.68
Fuel Oil Only .....	323	314	4,672	4,586	69.1	68.4	13.82
Propane Only .....	74	71	1,511	1,477	49.0	48.2	21.90
Any Other Single Energy Source .....	9	9	231	231	38.9	38.9	22.68
More than One Energy Source .....	32	30	603	581	53.2	51.5	23.49
No Replacement Energy Source .....	1,285	1,194	28,746	26,158	44.7	45.7	7.06
Building Not Heated .....	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Energy Source</b>							
Natural Gas .....	174	166	1,816	1,687	95.6	98.4	24.07
Other Excluding Natural Gas .....	1,552	1,454	33,442	30,419	46.4	47.8	6.66
A/C Not Performed .....	158	150	3,209	3,023	49.3	49.7	13.22
<b>Water-Heating Energy Source</b>							
Natural Gas .....	1,427	1,377	26,313	24,868	54.2	55.4	7.03
Other Excluding Natural Gas .....	407	344	10,307	8,505	39.5	40.4	14.39
Water Heating Not Performed .....	50	49	1,846	1,755	26.9	28.0	10.37
<b>Cooking Energy Source</b>							
Natural Gas .....	699	655	11,868	10,606	58.9	61.7	9.13
Other Excluding Natural Gas .....	118	109	2,738	2,293	43.3	47.6	15.33
Cooking Not Performed .....	1,066	1,006	23,862	22,229	44.7	45.3	8.43
<b>Percent of Floorspace Heated</b>							
Not Heated .....	Q	Q	Q	Q	Q	Q	NF
1 to 50 .....	154	122	6,667	5,863	23.0	20.9	16.12
51 to 99 .....	315	303	6,596	6,064	47.8	49.9	17.36
100 .....	1,415	1,345	25,204	23,202	56.1	58.0	6.78
<b>Heating Equipment (more than one may apply)</b>							
Heat Pumps .....	153	128	3,633	2,541	42.0	50.4	23.23
Furnaces .....	674	628	13,783	12,641	48.9	49.7	11.25
Individual Space Heaters .....	606	546	13,947	12,515	43.5	43.6	10.51
District Heat .....	54	Q	553	Q	97.9	Q	35.40
Boilers .....	893	867	15,949	14,709	56.0	59.0	7.55
Packaged Heating Units .....	512	486	11,521	10,606	44.5	45.8	10.27
Other .....	Q	Q	549	474	Q	Q	33.27

See footnotes at end of table.

**Table 3.39. Natural Gas Consumption and Conditional Energy Intensity for Buildings Heated with Natural Gas, 1992 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)		Total Floorspace of Buildings Using Natural Gas (million square feet)		Natural Gas Energy Intensity (cubic feet/sq. ft.)		RSE Row Factor
	All Buildings Heated with Natural Gas	Buildings with Natural Gas Main Heating	All Buildings Heated with Natural Gas	Buildings with Natural Gas Main Heating	All Buildings Heated with Natural Gas	Buildings with Natural Gas Main Heating	
	1.2	1.2	0.8	0.9	1.0	1.0	
<b>Annual Consumption (hundred cubic feet)</b>							
1,000 or Less .....	39	36	4,287	3,715	9.2	9.8	9.81
1,001 to 5,000 .....	245	235	9,554	8,954	25.6	26.2	5.79
5,001 to 10,000 .....	204	197	4,742	4,472	43.0	44.2	7.29
10,001 to 25,000 .....	319	307	7,303	6,673	43.7	46.0	8.89
25,001 to 50,000 .....	239	226	4,836	4,251	49.4	53.1	10.29
50,001 to 100,000 .....	200	179	2,841	2,448	70.4	73.0	14.97
Over 100,000 .....	638	591	4,905	4,616	130.1	127.9	17.25
<b>Gas Transported for the Account of Others</b>							
Used in Building .....	308	277	2,791	2,545	110.4	108.9	23.32
Not Used in Building .....	1,575	1,493	35,677	32,584	44.2	45.8	6.29

NF = No applicable RSE row factor.

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. • 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. • 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.



**Table 3.40. Natural Gas Transported for the Account of Others, Consumption and Expenditures, 1992**

Building Characteristics	All Buildings Using Natural Gas		Natural Gas Consumption			Natural Gas Expenditures			RSE Row Factor
	Number of Buildings (thousand)	Floor-space (million square feet)	Total (billion cubic feet)	Transported Gas (billion cubic feet)	Percent Transported Gas	Total (million dollars)	Transported Gas (million dollars)	Percent Transported Gas	
	0.5	0.5	0.6	1.9	1.8	0.6	1.7	1.8	
<b>All Buildings</b> .....	2,657	44,994	2,113	279	13.2	9,901	988	10.0	12.80
<b>Building Floorspace (square feet)</b>									
1,001 to 10,000 .....	1,899	8,014	556	17	3.1	3,058	49	1.6	16.35
10,001 to 100,000 .....	682	19,091	988	Q	Q	4,625	Q	Q	13.43
Over 100,000 .....	76	17,889	569	167	29.3	2,218	498	22.5	13.57
<b>Principal Building Activity</b>									
Education .....	197	6,856	283	44	15.7	1,271	162	12.7	15.90
Health Care .....	45	1,544	184	68	36.8	662	188	28.5	22.22
All Others .....	2,414	36,594	1,646	167	10.2	7,969	637	8.0	15.72
<b>Census Region and Division</b>									
Northeast .....	370	8,559	344	41	12.0	2,014	151	7.5	17.68
New England .....	63	1,761	72	1	1.7	476	Q	Q	46.82
Middle Atlantic .....	307	6,798	272	40	14.8	1,538	147	9.6	19.31
Midwest .....	843	13,775	726	113	15.6	3,011	319	10.6	14.11
East North Central .....	557	8,646	501	92	18.4	2,076	251	12.1	16.36
West North Central .....	287	5,129	225	Q	Q	935	Q	Q	29.03
South .....	882	13,361	677	Q	Q	2,998	Q	Q	22.69
South Atlantic .....	185	4,744	233	Q	Q	1,147	Q	Q	49.81
East South Central .....	223	3,248	154	Q	Q	787	Q	Q	36.06
West South Central .....	474	5,369	290	Q	Q	1,064	Q	Q	33.37
West .....	562	9,299	365	Q	Q	1,878	Q	7.9	20.76
Mountain .....	198	2,560	133	Q	Q	559	8	Q	31.78
Pacific .....	364	6,738	232	Q	Q	1,319	Q	10.6	23.91
<b>Annual Consumption (hundred cubic feet)</b>									
1,000 or Less .....	834	5,311	43	(*)	0.6	328	1	0.4	17.86
1,001 to 5,000 .....	1,117	11,453	268	3	1.2	1,572	17	1.1	10.95
5,001 to 10,000 .....	329	5,663	229	4	1.6	1,232	19	1.5	17.61
10,001 to 25,000 .....	231	8,046	360	9	2.5	1,817	39	2.1	19.25
25,001 to 50,000 .....	84	5,522	279	14	5.0	1,448	59	4.1	23.17
50,001 to 100,000 .....	33	3,311	224	Q	Q	1,018	51	5.0	23.51
Over 100,000 .....	28	5,687	710	236	33.3	2,486	801	32.2	23.87

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

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. • 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. • 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.

**Table 3.41. Total Fuel Oil Consumption and Expenditures, 1992**

Building Characteristics	All Buildings Using Fuel Oil			Fuel Oil Consumption		Fuel Oil Expenditures	RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total	Total	Total	
				(trillion Btu)	(million gallons)	(million dollars)	
RSE Column Factor:	1.0	0.8	0.8	1.2	1.2	1.2	
<b>All Buildings</b> .....	560	13,215	24	272	1,955	1,400	11.90
<b>Building Floorspace (square feet)</b>							
1,001 to 5,000 .....	289	831	3	40	291	252	11.84
5,001 to 10,000 .....	125	925	7	46	331	264	13.63
10,001 to 25,000 .....	62	978	16	27	192	150	17.32
25,001 to 50,000 .....	38	1,367	36	55	396	271	15.16
50,001 to 100,000 .....	21	1,539	72	30	212	140	16.24
100,001 to 200,000 .....	11	1,571	144	28	203	134	19.14
200,001 to 500,000 .....	10	3,025	300	26	181	113	20.49
Over 500,000 .....	4	2,980	833	Q	Q	76	21.03
<b>Principal Building Activity</b>							
Education .....	28	1,837	67	62	441	277	17.36
Food Sales .....	Q	Q	Q	Q	Q	Q	NF
Food Service .....	Q	Q	Q	Q	Q	Q	NF
Health Care .....	7	1,093	148	21	147	86	37.77
Lodging .....	18	827	46	16	112	79	34.98
Mercantile and Service .....	200	2,109	11	55	396	318	18.14
Office .....	87	3,603	41	47	340	245	16.13
Parking Garage .....	Q	Q	Q	Q	Q	Q	NF
Public Assembly .....	29	822	29	15	107	80	38.18
Public Order and Safety .....	Q	Q	Q	Q	Q	Q	NF
Religious Worship .....	60	532	9	12	86	72	22.35
Warehouse and Storage .....	63	1,012	16	24	172	139	25.64
Other .....	Q	Q	Q	Q	Q	Q	NF
Vacant .....	Q	Q	Q	Q	Q	Q	NF
<b>Year Constructed</b>							
1899 or Before .....	31	344	11	10	75	60	26.44
1900 to 1919 .....	52	764	15	24	174	126	25.48
1920 to 1945 .....	106	1,750	16	58	413	283	23.76
1946 to 1959 .....	107	1,647	15	60	432	310	16.10
1960 to 1969 .....	89	2,363	26	50	359	262	22.29
1970 to 1979 .....	91	2,735	30	49	351	251	22.39
1980 to 1989 .....	74	2,870	39	17	124	90	22.42
1990 to 1992 .....	8	743	Q	Q	Q	Q	39.19
<b>Census Region and Division</b>							
Northeast .....	284	5,535	20	194	1,388	989	15.34
New England .....	104	2,184	21	90	643	433	24.34
Middle Atlantic .....	180	3,351	19	103	744	556	20.95
Midwest .....	80	2,543	32	26	187	132	25.48
East North Central .....	60	1,605	27	14	101	76	24.37
West North Central .....	20	938	47	Q	Q	Q	36.24
South .....	182	3,579	20	48	343	257	22.45
South Atlantic .....	130	2,308	18	40	291	213	27.51
East South Central .....	35	565	16	Q	Q	Q	39.19
West South Central .....	17	706	42	Q	Q	Q	42.98
West .....	14	1,557	115	Q	Q	Q	25.58
Mountain .....	Q	Q	Q	Q	Q	Q	NF
Pacific .....	11	1,210	109	Q	Q	Q	28.43
<b>Climate Zone: 45-Year Average</b>							
Fewer than 2,000 CDD and --							
More than 7,000 HDD .....	80	1,550	19	46	327	233	35.60
5,500-7,000 HDD .....	185	4,211	23	96	688	479	19.89
4,000-5,499 HDD .....	211	4,009	19	111	797	579	18.02
Fewer than 4,000 HDD .....	52	2,196	42	Q	Q	Q	38.05
More than 2,000 CDD and --							
Fewer than 4,000 HDD .....	31	1,248	40	Q	Q	53	42.62

See footnotes at end of table.

**Table 3.41. Total Fuel Oil Consumption and Expenditures, 1992 (Continued)**

Building Characteristics	All Buildings Using Fuel Oil			Fuel Oil Consumption		Fuel Oil Expenditures	RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total	Total	Total	
				(trillion Btu)	(million gallons)	(million dollars)	
RSE Column Factor:	1.0	0.8	0.8	1.2	1.2	1.2	
<b>Energy Sources (more than one may apply)</b>							
Electricity .....	557	13,208	24	272	1,952	1,398	12.16
Natural Gas .....	130	8,426	65	108	772	507	15.43
Fuel Oil .....	560	13,215	24	272	1,955	1,400	11.90
District Heat .....	11	1,288	115	Q	Q	Q	35.28
District Chilled Water .....	2	588	242	Q	Q	Q	35.89
Propane .....	61	1,243	20	37	267	187	26.85
Any Other .....	Q	Q	Q	Q	Q	Q	NF
<b>Energy End Uses (more than one may apply)</b>							
Heated Buildings .....	555	12,930	23	272	1,951	1,397	11.90
Buildings with A/C .....	378	12,076	32	218	1,564	1,103	12.43
Buildings with Water Heating .....	434	12,599	29	252	1,803	1,274	12.06
Buildings with Cooking .....	101	7,452	74	109	778	514	15.44
Buildings with Manufacturing .....	20	739	36	30	211	136	35.49
<b>Workers (main shift)</b>							
Less than 5 .....	305	1,795	6	56	404	335	16.39
5 to 9 .....	94	776	8	35	253	199	20.93
10 to 19 .....	67	884	13	23	164	131	19.88
20 to 49 .....	43	1,094	26	53	381	263	21.69
50 to 99 .....	21	1,494	70	32	228	158	25.19
100 or More .....	29	7,172	248	74	524	315	15.52
<b>Weekly Operating Hours</b>							
39 or Fewer .....	119	1,136	10	36	259	202	21.93
40 to 48 .....	147	2,449	17	68	493	352	15.48
49 to 60 .....	131	2,473	19	39	280	218	15.05
61 to 84 .....	76	2,317	30	41	296	218	17.52
85 to 167 .....	41	1,695	41	38	275	198	31.06
Open Continuously .....	44	3,145	71	50	351	213	23.39
<b>Ownership and Occupancy</b>							
Nongovernment Owned .....	484	9,420	19	172	1,234	936	13.62
Owner Occupied .....	415	7,628	18	152	1,088	824	15.22
Single Establishment .....	367	4,949	13	116	834	657	16.06
Multiple Establishment .....	48	2,679	56	36	255	167	33.01
Nonowner Occupied .....	63	1,600	25	19	139	105	24.15
Single Establishment .....	40	644	16	6	45	36	28.69
Multiple Establishment .....	23	957	41	13	95	70	33.74
Vacant .....	Q	Q	Q	Q	Q	Q	NF
Government Owned .....	75	3,795	51	100	721	465	17.40
<b>Predominant Exterior Wall Material</b>							
Masonry .....	374	9,618	26	225	1,614	1,128	11.71
Siding or Shingles .....	114	631	6	22	159	131	19.10
Metal Panels .....	48	699	15	15	106	85	30.98
Concrete Panels .....	5	1,077	211	Q	Q	Q	28.42
Window Glass .....	9	839	Q	6	44	33	38.54
Other .....	10	350	34	Q	Q	Q	44.85
<b>Predominant Roof Material</b>							
Built-Up .....	171	5,783	34	105	756	542	15.66
Shingles (Not Wood) .....	190	1,681	9	50	361	282	15.67
Metal Surfacing .....	85	675	8	20	142	112	25.99
Synthetic or Rubber .....	73	3,768	51	75	535	364	19.50
Other .....	40	1,308	33	23	161	100	30.04

See footnotes at end of table.

**Table 3.41. Total Fuel Oil Consumption and Expenditures, 1992 (Continued)**

Building Characteristics	All Buildings Using Fuel Oil			Fuel Oil Consumption		Fuel Oil Expenditures	RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million gallons)	Total (million dollars)	
RSE Column Factor:							
<b>Space-Heating Energy Source</b>							
Fuel Oil .....	478	7,323	15	262	1,877	1,336	12.55
Fuel Oil Main .....	394	4,404	11	233	1,677	1,211	13.67
Fuel Oil Secondary .....	84	2,919	35	28	200	125	20.70
Other Excluding Fuel Oil .....	77	5,607	73	10	74	61	23.45
Building Not Heated .....	Q	Q	Q	Q	Q	Q	NF
<b>Main Space-Heating Energy Source</b>							
Electricity .....	51	2,482	49	7	51	40	24.52
Natural Gas .....	75	4,680	63	22	156	112	16.99
Fuel Oil .....	394	4,404	11	233	1,677	1,211	13.67
District Heat .....	11	1,104	105	Q	Q	Q	33.99
Propane .....	Q	Q	Q	Q	Q	Q	NF
Wood .....	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Main Heating</b>							
Electricity Only .....	Q	Q	Q	Q	Q	Q	NF
Natural Gas Only .....	55	882	16	48	345	232	24.66
Fuel Oil Only .....	46	2,730	60	15	107	71	24.88
Propane Only .....	42	361	9	13	97	77	28.22
Any Other Single Energy Source .....	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source .....	Q	Q	Q	Q	Q	Q	NF
No Replacement Energy Source .....	347	8,392	24	182	1,302	939	13.13
Building Not Heated .....	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Energy Source</b>							
Fuel Oil .....	Q	Q	Q	Q	Q	Q	NF
Other Excluding Fuel Oil .....	377	11,962	32	215	1,540	1,087	12.50
A/C Not Performed .....	182	1,138	6	54	391	297	14.10
<b>Water-Heating Energy Source</b>							
Fuel Oil .....	125	2,469	20	138	992	683	17.12
Other Excluding Fuel Oil .....	309	10,131	33	113	811	591	12.99
Water Heating Not Performed .....	125	615	5	21	151	126	21.34
<b>Cooking Energy Source</b>							
Fuel Oil .....	Q	Q	Q	Q	Q	Q	NF
Other Excluding Fuel Oil .....	100	7,361	74	99	705	469	14.44
Cooking Not Performed .....	459	5,762	13	164	1,177	886	13.35
<b>Manufacturing Energy Source</b>							
Fuel Oil .....	Q	Q	Q	Q	Q	Q	NF
Other Excluding Fuel Oil .....	14	681	50	21	151	96	39.61
Manufacturing Not Performed .....	539	12,475	23	243	1,744	1,264	11.67
<b>Percent of Floorspace Heated</b>							
Not Heated .....	Q	Q	Q	Q	Q	Q	NF
1 to 50 .....	92	1,479	16	27	191	142	31.64
51 to 99 .....	85	2,694	32	43	309	214	17.65
100 .....	377	8,757	23	202	1,451	1,041	13.35

See footnotes at end of table.

**Table 3.41. Total Fuel Oil Consumption and Expenditures, 1992 (Continued)**

Building Characteristics	All Buildings Using Fuel Oil			Fuel Oil Consumption		Fuel Oil Expenditures	RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million gallons)	Total (million dollars)	
RSE Column Factor:	1.0	0.8	0.8	1.2	1.2	1.2	
<b>Heating Equipment (more than one may apply)</b>							
Heat Pumps .....	26	1,579	61	19	135	92	26.36
Furnaces .....	266	2,240	8	59	429	351	15.87
Individual Space Heaters .....	189	4,694	25	74	531	391	16.30
District Heat .....	11	1,249	112	Q	Q	Q	30.00
Boilers .....	220	7,844	36	204	1,462	1,018	12.59
Packaged Heating Units .....	29	1,974	67	18	129	86	21.08
Other .....	Q	Q	Q	Q	Q	Q	NF
<b>Energy Conservation Features (more than one may apply)</b>							
Any Conservation Features .....	541	13,119	24	271	1,944	1,391	11.92
Building Shell .....	525	13,000	25	260	1,863	1,332	12.29
HVAC .....	397	12,099	31	240	1,718	1,213	12.58
Lighting .....	190	8,608	45	121	864	610	16.46
Other .....	56	1,830	33	48	341	222	25.51
<b>Energy Management Practices (more than one may apply)</b>							
Energy Management and Control System .....	37	5,373	147	58	413	262	21.81
Demand-Side Management <sup>1</sup> Participation .....	65	4,135	64	70	499	325	19.87
Energy Audit .....	85	4,531	53	77	550	381	19.80
Building Energy Manager .....	6	673	118	Q	Q	Q	43.42
<b>Annual Consumption (gallons)</b>							
1,000 or less .....	277	6,228	22	15	108	101	14.80
1,001 to 5,000 .....	215	2,744	13	64	460	395	13.76
5,001 to 10,000 .....	35	1,406	40	35	249	186	22.45
10,001 to 25,000 .....	19	907	48	41	295	207	20.33
Over 25,000 .....	12	1,929	155	118	842	511	20.47

<sup>1</sup> 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.

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.42. Fuel Oil Consumption and Expenditure Intensities, 1992**

Building Characteristics	Fuel Oil Consumption			Fuel Oil Expenditures			RSE Row Factor
	per Building (gallons)	per Square Foot (kWh)	per Worker (gallons)	per Building (thousand dollars)	per Square Foot (dollars)	per Gallon (dollars)	
	1.3	1.3	1.5	1.2	1.3	0.3	
<b>All Buildings</b> .....	3,494	0.15	108.2	2.5	0.11	0.72	8.65
<b>Building Floorspace (square feet)</b>							
1,001 to 5,000 .....	1,006	0.35	297.0	0.9	0.30	0.87	7.53
5,001 to 10,000 .....	2,652	0.36	324.3	2.1	0.29	0.80	12.60
10,001 to 25,000 .....	3,115	0.20	209.5	2.4	0.15	0.78	12.90
25,001 to 50,000 .....	10,356	0.29	334.3	7.1	0.20	0.68	23.67
50,001 to 100,000 .....	9,946	0.14	105.5	6.6	0.19	0.66	15.82
100,001 to 200,000 .....	18,556	0.13	75.3	12.3	0.09	0.66	24.29
200,001 to 500,000 .....	17,907	0.06	40.1	11.2	0.04	0.62	26.75
Over 500,000 .....	Q	0.05	Q	21.4	0.03	0.51	37.62
<b>Principal Building Activity</b>							
Education .....	16,030	0.24	303.7	10.1	0.15	0.63	11.86
Food Sales .....	Q	Q	Q	Q	Q	Q	NF
Food Service .....	Q	Q	Q	Q	Q	Q	NF
Health Care .....	Q	0.13	69.1	Q	0.08	0.58	33.61
Lodging .....	6,261	0.14	0.0	4.4	0.10	0.70	22.83
Mercantile and Service .....	1,980	0.19	216.5	1.6	0.15	0.80	15.26
Office .....	3,911	0.09	37.1	2.8	0.07	0.72	13.57
Parking Garage .....	Q	Q	Q	Q	Q	Q	NF
Public Assembly .....	3,727	0.13	141.5	2.8	0.10	0.74	28.07
Public Order and Safety .....	Q	Q	Q	Q	Q	Q	NF
Religious Worship .....	1,431	0.16	224.0	1.2	0.14	0.83	14.27
Warehouse and Storage .....	2,746	0.17	277.8	2.2	0.14	0.81	20.81
Other .....	Q	Q	Q	Q	Q	Q	NF
Vacant .....	Q	Q	Q	Q	Q	Q	NF
<b>Year Constructed</b>							
1899 or Before .....	2,398	0.22	182.8	1.9	0.18	0.80	14.11
1900 to 1919 .....	3,355	0.23	180.4	2.4	0.17	0.73	22.09
1920 to 1945 .....	3,892	0.24	286.2	2.7	0.16	0.68	19.81
1946 to 1959 .....	4,037	0.26	213.7	2.9	0.19	0.72	13.61
1960 to 1969 .....	4,017	0.15	93.4	2.9	0.11	0.73	20.07
1970 to 1979 .....	3,855	0.13	89.9	2.7	0.09	0.71	18.33
1980 to 1989 .....	1,658	0.04	27.2	1.2	0.03	0.73	20.91
1990 to 1992 .....	Q	Q	Q	Q	Q	0.69	38.85
<b>Census Region and Division</b>							
Northeast .....	4,891	0.25	189.2	3.5	0.18	0.71	8.61
New England .....	6,202	0.29	237.4	4.2	0.20	0.67	11.64
Middle Atlantic .....	4,136	0.22	160.9	3.1	0.17	0.75	11.08
Midwest .....	2,333	0.07	68.6	1.6	0.05	0.70	29.26
East North Central .....	1,684	0.06	57.1	1.3	0.05	0.75	19.19
West North Central .....	Q	Q	Q	Q	Q	0.65	38.35
South .....	1,886	0.10	58.7	1.4	0.07	0.75	19.02
South Atlantic .....	2,242	0.13	89.2	1.6	0.09	0.73	22.13
East South Central .....	888	0.06	Q	0.8	0.05	0.85	17.88
West South Central .....	0	Q	Q	0.0	Q	0.86	8.88
West .....	2,698	Q	Q	1.7	Q	0.61	25.34
Mountain .....	Q	Q	Q	Q	Q	Q	NF
Pacific .....	1,782	Q	Q	1.2	Q	0.65	23.70
<b>Climate Zone: 45-Year Average</b>							
Fewer than 2,000 CDD and --							
More than 7,000 HDD .....	4,078	0.21	215.8	2.9	0.15	0.71	14.59
5,500-7,000 HDD .....	3,708	0.16	130.7	2.6	0.11	0.70	13.78
4,000-5,499 HDD .....	3,779	0.20	140.2	2.7	0.14	0.73	15.45
Fewer than 4,000 HDD .....	1,475	0.03	Q	1.1	0.03	0.74	33.69
More than 2,000 CDD and --							
Fewer than 4,000 HDD .....	2,145	0.05	36.5	1.7	0.04	0.79	29.45

See footnotes at end of table.

**Table 3.42. Fuel Oil Consumption and Expenditure Intensities, 1992 (Continued)**

Building Characteristics	Fuel Oil Consumption			Fuel Oil Expenditures			RSE Row Factor
	per Building (gallons)	per Square Foot (kWh)	per Worker (gallons)	per Building (thousand dollars)	per Square Foot (dollars)	per Gallon (dollars)	
	1.3	1.3	1.5	1.2	1.3	0.3	
<b>Energy Sources (more than one may apply)</b>							
Electricity .....	3,502	0.15	108.1	2.5	0.11	0.72	8.83
Natural Gas .....	5,951	0.09	64.0	3.9	0.06	0.66	15.11
Fuel Oil .....	3,494	0.15	108.2	2.5	0.11	0.72	8.65
District Heat .....	Q	Q	Q	Q	0.02	0.44	37.89
District Chilled Water .....	Q	0.08	Q	Q	0.05	0.62	26.90
Propane .....	4,404	0.21	224.3	3.1	0.15	0.70	14.02
Any Other .....	Q	Q	Q	Q	Q	Q	NF
<b>Energy End Uses (more than one may apply)</b>							
Heated Buildings .....	3,516	0.15	109.2	2.5	0.11	0.72	8.64
Buildings with A/C .....	4,138	0.13	91.5	2.9	0.09	0.71	9.85
Buildings with Water Heating .....	4,155	0.14	101.7	2.9	0.10	0.71	8.99
Buildings with Cooking .....	7,727	0.10	69.7	5.1	0.07	0.66	11.84
Buildings with Manufacturing .....	10,395	0.29	289.1	6.7	0.18	0.65	28.14
<b>Workers (main shift)</b>							
Less than 5 .....	1,324	0.23	682.2	1.1	0.19	0.83	7.34
5 to 9 .....	2,701	0.33	439.4	2.1	0.26	0.78	14.00
10 to 19 .....	2,439	0.19	200.2	1.9	0.15	0.80	11.72
20 to 49 .....	8,897	0.35	287.1	6.1	0.24	0.69	19.27
50 to 99 .....	10,660	0.15	167.9	7.4	0.11	0.69	19.08
100 or More .....	18,098	0.07	39.1	10.9	0.04	0.60	18.37
<b>Weekly Operating Hours</b>							
39 or Fewer .....	2,181	0.23	303.3	1.7	0.18	0.78	13.21
40 to 48 .....	3,343	0.20	127.3	2.4	0.14	0.71	13.64
49 to 60 .....	2,137	0.11	69.3	1.7	0.09	0.78	9.65
61 to 84 .....	3,886	0.13	99.3	2.9	0.09	0.73	13.94
85 to 167 .....	6,655	0.16	157.9	4.8	0.12	0.72	19.34
Open Continuously .....	7,899	0.11	76.8	4.8	0.07	0.61	24.42
<b>Ownership and Occupancy</b>							
Nongovernment Owned .....	2,547	0.13	94.4	1.9	0.10	0.76	9.92
Owner Occupied .....	2,623	0.14	102.7	2.0	0.11	0.76	10.63
Single Establishment .....	2,272	0.17	133.5	1.8	0.13	0.79	10.83
Multiple Establishment .....	5,311	0.10	58.4	3.5	0.06	0.66	25.89
Nonowner Occupied .....	2,194	0.09	56.4	1.7	0.07	0.76	19.64
Single Establishment .....	1,114	0.07	53.9	0.9	0.06	0.80	23.79
Multiple Establishment .....	4,047	0.10	57.6	3.0	0.07	0.74	30.34
Vacant .....	Q	Q	Q	Q	Q	Q	NF
Government Owned .....	9,602	0.19	144.4	6.2	0.12	0.64	14.91
<b>Predominant Exterior Wall Material</b>							
Masonry .....	4,320	0.17	141.9	3.0	0.12	0.70	10.15
Siding or Shingles .....	1,389	0.25	187.5	1.1	0.21	0.83	10.70
Metal Panels .....	2,223	0.15	149.1	1.8	0.12	0.80	26.41
Concrete Panels .....	Q	Q	Q	Q	Q	0.65	17.21
Window Glass .....	Q	0.05	21.6	Q	0.04	0.73	28.97
Other .....	1,738	Q	Q	1.5	Q	0.84	27.79
<b>Predominant Roof Material</b>							
Built-Up .....	4,425	0.13	89.7	3.2	0.09	0.72	14.63
Shingles (Not Wood) .....	1,898	0.21	200.5	1.5	0.17	0.78	8.25
Metal Surfacing .....	1,661	0.21	246.0	1.3	0.17	0.79	15.49
Synthetic or Rubber .....	7,300	0.14	95.0	5.0	0.10	0.68	17.47
Other .....	4,032	0.12	98.9	2.5	0.08	0.62	24.17

See footnotes at end of table.

**Table 3.42. Fuel Oil Consumption and Expenditure Intensities, 1992 (Continued)**

Building Characteristics	Fuel Oil Consumption			Fuel Oil Expenditures			RSE Row Factor
	per Building (gallons)	per Square Foot (kWh)	per Worker (gallons)	per Building (thousand dollars)	per Square Foot (dollars)	per Gallon (dollars)	
	1.3	1.3	1.5	1.2	1.3	0.3	
<b>Space-Heating Energy Source</b>							
Fuel Oil .....	3,926	0.26	228.2	2.8	0.18	0.71	8.26
Fuel Oil Main .....	4,260	0.38	338.3	3.1	0.28	0.72	6.85
Fuel Oil Secondary .....	2,367	0.07	61.2	1.5	0.04	0.63	22.52
Other Excluding Fuel Oil .....	966	0.01	7.7	0.8	0.01	0.82	23.64
Building Not Heated .....	Q	Q	Q	Q	Q	Q	NF
<b>Main Space-Heating Energy Source</b>							
Electricity .....	1,010	0.02	13.2	0.8	0.02	0.78	23.61
Natural Gas .....	2,090	0.03	22.9	1.5	0.02	0.72	17.31
Fuel Oil .....	4,260	0.38	338.3	3.1	0.28	0.72	6.85
District Heat .....	Q	Q	Q	Q	Q	0.39	23.29
Propane .....	Q	Q	Q	Q	Q	Q	NF
Wood .....	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Main Heating</b>							
Electricity Only .....	Q	Q	Q	Q	Q	Q	NF
Natural Gas Only .....	6,261	0.39	390.0	4.2	0.26	0.67	18.78
Fuel Oil Only .....	2,344	0.04	32.6	1.5	0.03	0.66	21.46
Propane Only .....	2,297	0.27	202.3	1.8	0.21	0.80	15.15
Any Other Single Energy Source .....	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source .....	Q	Q	Q	Q	Q	Q	NF
No Replacement Energy Source .....	3,748	0.16	104.8	2.7	0.11	0.72	9.89
Building Not Heated .....	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Energy Source</b>							
Fuel Oil .....	Q	Q	Q	Q	Q	Q	NF
Other Excluding Fuel Oil .....	4,081	0.13	90.8	2.9	0.09	0.71	9.91
A/C Not Performed .....	2,152	0.34	402.6	1.6	0.26	0.76	9.29
<b>Water-Heating Energy Source</b>							
Fuel Oil .....	7,923	0.40	327.3	5.4	0.28	0.69	10.68
Other Excluding Fuel Oil .....	2,626	0.08	55.1	1.9	0.06	0.73	10.99
Water Heating Not Performed .....	1,207	0.25	457.3	1.0	0.21	0.83	11.32
<b>Cooking Energy Source</b>							
Fuel Oil .....	Q	Q	Q	Q	Q	Q	NF
Other Excluding Fuel Oil .....	7,052	0.10	64.2	4.7	0.06	0.67	10.65
Cooking Not Performed .....	2,565	0.20	170.5	1.9	0.15	0.75	11.06
<b>Manufacturing Energy Source</b>							
Fuel Oil .....	Q	Q	Q	Q	Q	Q	NF
Other Excluding Fuel Oil .....	0	0.22	226.7	7.0	0.14	0.63	29.97
Manufacturing Not Performed .....	3,234	0.14	100.6	2.3	0.10	0.72	8.15
<b>Percent of Floorspace Heated</b>							
Not Heated .....	Q	Q	Q	Q	Q	Q	NF
1 to 50 .....	2,074	0.13	165.8	1.5	0.10	0.74	28.30
51 to 99 .....	3,614	0.11	87.4	2.5	0.08	0.69	14.43
100 .....	3,846	0.17	110.0	2.8	0.12	0.72	9.37
<b>Heating Equipment (more than one may apply)</b>							
Heat Pumps .....	5,214	0.09	54.8	3.6	0.06	0.68	23.94
Furnaces .....	1,613	0.19	180.2	1.3	0.16	0.82	10.95
Individual Space Heaters .....	2,817	0.11	78.4	2.1	0.08	0.74	13.09
District Heat .....	Q	Q	Q	Q	0.02	0.42	38.59
Boilers .....	6,654	0.19	135.7	4.6	0.13	0.70	9.66
Packaged Heating Units .....	4,374	0.07	43.1	2.9	0.04	0.67	22.76
Other .....	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.



**Table 3.42. Fuel Oil Consumption and Expenditure Intensities, 1992 (Continued)**

Building Characteristics	Fuel Oil Consumption			Fuel Oil Expenditures			RSE Row Factor
	per Building (gallons)	per Square Foot (kWh)	per Worker (gallons)	per Building (thousand dollars)	per Square Foot (dollars)	per Gallon (dollars)	
RSE Column Factor:	1.3	1.3	1.5	1.2	1.3	0.3	
<b>Energy Conservation Features (more than one may apply)</b>							
Any Conservation Features .....	3,596	0.15	108.1	2.6	0.11	0.72	8.63
Building Shell .....	3,545	0.14	104.3	2.5	0.10	0.71	8.91
HVAC .....	4,333	0.14	99.2	3.1	0.10	0.71	9.10
Lighting .....	4,540	0.10	64.7	3.2	0.07	0.71	12.26
Other .....	6,065	0.19	149.2	4.0	0.12	0.65	27.19
<b>Energy Management Practices (more than one may apply)</b>							
Energy Management and Control System .....	11,293	0.08	41.1	7.2	0.05	0.63	17.84
Demand-Side Management <sup>1</sup> Participation .....	7,692	0.12	69.9	5.0	0.08	0.65	15.83
Energy Audit .....	6,451	0.12	68.4	4.5	0.08	0.69	14.24
Building Energy Manager .....	Q	0.05	Q	Q	0.03	0.64	37.93
<b>Annual Consumption (gallons)</b>							
1,000 or less .....	390	0.02	12.0	0.4	0.02	0.93	10.62
1,001 to 5,000 .....	2,139	0.17	140.3	1.8	0.14	0.86	7.62
5,001 to 10,000 .....	7,047	0.18	129.7	5.3	0.13	0.75	9.80
10,001 to 25,000 .....	15,529	0.33	205.0	10.9	0.23	0.70	8.91
Over 25,000 .....	67,746	0.44	349.3	41.1	0.26	0.61	12.77

<sup>1</sup> 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.

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.43. Fuel Oil Consumption and Conditional Energy Intensity by Census Region, 1992**

Building Characteristics	Total Fuel Oil Consumption (million gallons)				Total Floorspace of Buildings Using Fuel Oil (million square feet)				Fuel Oil Energy Intensity (gallons/sq. ft.)				RSE Row Factor
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
	0.9	1.7	1.2	0.8	0.7	0.8	0.8	1.0	0.6	1.7	1.1	1.5	
<b>All Buildings</b> .....	1,388	187	343	Q	5,535	2,543	3,579	1,557	0.25	0.07	0.10	Q	20.24
<b>Building Floorspace (square feet)</b>													
1,001 to 10,000 .....	400	73	130	Q	973	228	542	Q	0.41	0.32	0.24	Q	21.06
10,001 to 100,000 .....	593	39	Q	Q	2,014	827	830	Q	0.29	Q	Q	Q	23.59
Over 100,000 .....	394	Q	55	Q	2,547	1,488	2,207	1,333	0.15	Q	0.03	Q	29.25
<b>Principal Building Activity</b>													
Education .....	343	Q	Q	Q	1,078	Q	Q	Q	0.32	Q	Q	Q	21.10
Mercantile and Service .....	243	Q	Q	Q	956	Q	339	Q	0.25	Q	Q	Q	26.22
Office .....	270	Q	34	Q	1,269	519	1,211	604	0.21	Q	0.03	Q	32.75
Public Assembly .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Warehouse and Storage .....	116	Q	Q	Q	466	Q	Q	Q	0.25	Q	Q	Q	50.56
All Others .....	339	Q	79	Q	1,418	858	1,106	Q	0.24	Q	0.07	Q	28.31
<b>Year Constructed</b>													
1945 or Before .....	462	Q	66	Q	1,760	548	399	Q	0.26	Q	0.17	Q	32.44
1946 to 1959 .....	332	Q	67	Q	816	Q	413	Q	0.41	Q	0.16	Q	26.47
1960 to 1969 .....	260	Q	76	Q	885	386	901	Q	0.29	Q	0.08	Q	36.63
1970 to 1979 .....	219	Q	Q	Q	909	615	823	Q	0.24	0.03	Q	Q	34.58
1980 to 1989 .....	93	Q	23	Q	990	522	872	Q	0.09	Q	0.03	Q	39.74
1990 to 1992 .....	Q	Q	Q	Q	176	202	171	194	Q	Q	Q	Q	48.20
<b>Climate Zone: 45-Year Average</b>													
Fewer than 2,000 CDD and -- More than 7,000 HDD .....	Q	53	Q	Q	Q	816	Q	Q	0.38	0.06	Q	Q	30.01
5,500-7,000 HDD .....	613	58	Q	Q	2,642	1,420	Q	Q	0.23	0.04	Q	Q	24.95
4,000-5,499 HDD .....	501	Q	207	Q	2,164	Q	1,183	Q	0.23	Q	0.18	Q	26.97
Fewer than 4,000 HDD .....	Q	Q	Q	Q	Q	Q	1,364	832	Q	Q	0.05	Q	41.31
More than 2,000 CDD and -- Fewer than 4,000 HDD .....	Q	Q	Q	Q	Q	Q	1,033	Q	Q	Q	0.06	Q	36.46
<b>Energy Sources (more than one may apply)</b>													
Electricity .....	1,388	184	343	Q	5,535	2,536	3,579	1,557	0.25	0.07	0.10	Q	21.23
Natural Gas .....	505	Q	Q	Q	2,880	2,060	2,127	1,358	0.18	Q	Q	Q	27.81
Fuel Oil .....	1,388	187	343	Q	5,535	2,543	3,579	1,557	0.25	0.07	0.10	Q	20.24
District Heat .....	Q	Q	Q	Q	605	Q	Q	Q	0.08	Q	Q	Q	68.06
District Chilled Water .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Propane .....	217	Q	Q	Q	817	Q	Q	Q	0.27	Q	Q	Q	33.31
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Energy End Uses (more than one may apply)</b>													
Heated Buildings .....	1,388	187	340	Q	5,529	2,543	3,528	1,330	0.25	0.07	0.10	Q	20.18
Buildings with A/C .....	1,106	142	303	12	4,828	2,355	3,387	1,506	0.23	Q	0.09	0.01	20.83
Buildings with Water Heating .....	1,307	163	298	Q	5,239	2,444	3,370	1,547	0.25	0.07	0.09	Q	20.95
Buildings with Cooking .....	568	Q	102	5	2,891	1,453	2,127	981	0.20	Q	0.05	0.01	21.06
Buildings with Manufacturing .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Workers (main shift)</b>													
Less than 10 .....	396	81	162	Q	1,240	534	732	Q	0.32	Q	0.22	Q	22.08
10 to 99 .....	611	26	Q	Q	1,905	664	626	Q	0.32	0.04	0.20	Q	25.40
100 or More .....	381	Q	56	Q	2,389	1,345	2,221	1,217	0.16	Q	0.03	Q	29.09
<b>Weekly Operating Hours</b>													
48 or Fewer .....	508	64	170	Q	1,685	699	1,067	Q	0.30	Q	0.16	Q	28.51
49 to 84 .....	408	48	100	Q	1,865	854	1,329	742	0.22	0.06	0.08	Q	22.56
85 to 168 .....	472	Q	74	Q	1,985	990	1,184	Q	0.24	Q	0.06	Q	33.79

See footnotes at end of table.

**Table 3.43. Fuel Oil Consumption and Conditional Energy Intensity by Census Region, 1992 (Continued)**

Building Characteristics	Total Fuel Oil Consumption (million gallons)				Total Floorspace of Buildings Using Fuel Oil (million square feet)				Fuel Oil Energy Intensity (gallons/sq. ft.)				RSE Row Factor
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
	0.9	1.7	1.2	0.8	0.7	0.8	0.8	1.0	0.6	1.7	1.1	1.5	
<b>Ownership and Occupancy</b>													
Nongovernment Owned .....	939	94	176	Q	4,070	1,712	2,365	1,273	0.23	0.05	0.07	Q	19.54
Owner Occupied .....	840	87	137	Q	3,352	1,415	1,883	978	0.25	0.06	0.07	Q	20.21
Single Establishment .....	622	62	129	21	2,292	822	1,311	525	0.27	0.07	0.10	0.04	24.24
Multiple Establishment .....	218	Q	Q	Q	1,061	593	572	453	0.21	Q	Q	Q	37.89
Nonowner Occupied .....	96	Q	38	Q	617	Q	473	Q	0.15	Q	0.08	Q	40.82
Single Establishment .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Multiple Establishment .....	Q	Q	Q	Q	Q	Q	253	Q	Q	Q	Q	Q	43.22
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned .....	448	Q	Q	Q	1,465	831	1,214	Q	0.31	Q	Q	Q	27.03
<b>Predominant Exterior Wall Material</b>													
Masonry .....	1,155	155	274	Q	4,286	1,797	2,447	1,089	0.27	0.09	0.11	Q	22.28
Siding or Shingles .....	118	Q	Q	Q	441	Q	Q	Q	0.27	Q	Q	Q	25.91
Metal Panels .....	Q	Q	Q	Q	325	Q	Q	Q	0.19	Q	Q	Q	71.39
Concrete Panels .....	Q	Q	Q	Q	Q	Q	278	Q	Q	Q	Q	Q	40.37
Window Glass .....	Q	Q	Q	Q	Q	Q	402	Q	Q	Q	Q	Q	54.27
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Predominant Roof Material</b>													
Built-Up .....	527	44	169	Q	1,935	1,017	1,907	924	0.27	0.04	0.09	Q	29.24
Shingles (Not Wood) .....	269	Q	59	Q	1,032	Q	315	Q	0.26	Q	0.19	Q	24.77
Metal Surfacing .....	57	Q	53	Q	229	Q	255	Q	0.25	Q	0.21	Q	37.42
Synthetic or Rubber .....	388	Q	Q	Q	1,548	1,003	849	Q	0.25	Q	Q	Q	29.68
Other .....	145	Q	14	Q	791	Q	253	Q	0.18	Q	Q	Q	50.21
<b>Space-Heating Energy Source</b>													
Fuel Oil .....	1,369	168	310	Q	4,228	1,225	1,618	Q	0.32	0.14	0.19	Q	22.47
Fuel Oil Main .....	1,256	146	248	Q	3,202	426	728	Q	0.39	0.34	0.34	Q	23.89
Fuel Oil Secondary .....	113	Q	62	Q	1,026	799	890	Q	0.11	Q	0.07	Q	41.86
Other Excluding Fuel Oil .....	19	Q	Q	7	1,301	1,318	1,910	1,078	Q	0.01	Q	0.01	33.61
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Main Space-Heating Energy Source</b>													
Electricity .....	Q	Q	20	Q	584	316	1,106	477	Q	Q	0.02	Q	39.13
Natural Gas .....	55	Q	64	Q	1,018	1,502	1,389	771	0.05	Q	0.05	Q	31.15
Fuel Oil .....	1,256	146	248	Q	3,202	426	728	Q	0.39	0.34	0.34	Q	23.89
District Heat .....	Q	Q	Q	Q	574	291	Q	Q	Q	Q	Q	Q	54.40
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Main Heating</b>													
Electricity Only .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Natural Gas Only .....	255	Q	Q	Q	531	Q	Q	Q	0.48	Q	Q	Q	37.62
Fuel Oil Only .....	40	7	Q	Q	758	897	841	Q	0.05	0.01	0.05	Q	34.69
Propane Only .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other Single Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
No Replacement Energy Source .....	973	92	222	Q	3,772	1,357	2,247	1,015	0.26	0.07	0.10	Q	22.57
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Water-Heating Energy Source</b>													
Fuel Oil .....	825	Q	Q	Q	2,157	Q	Q	Q	0.38	Q	Q	Q	20.04
Other Excluding Fuel Oil .....	482	98	203	28	3,082	2,329	3,201	1,518	0.16	0.04	0.06	0.02	21.46
Water Heating Not Performed .....	81	Q	45	Q	296	Q	209	Q	0.27	Q	0.21	Q	34.49

See footnotes at end of table.

**Table 3.43. Fuel Oil Consumption and Conditional Energy Intensity by Census Region, 1992 (Continued)**

Building Characteristics	Total Fuel Oil Consumption (million gallons)				Total Floorspace of Buildings Using Fuel Oil (million square feet)				Fuel Oil Energy Intensity (gallons/sq. ft.)				RSE Row Factor
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
	0.9	1.7	1.2	0.8	0.7	0.8	0.8	1.0	0.6	1.7	1.1	1.5	
<b>Percent of Floorspace Heated</b>													
Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50 .....	Q	Q	Q	Q	726	Q	Q	Q	0.17	Q	Q	Q	53.37
51 to 99 .....	214	Q	43	Q	1,187	358	639	510	0.18	Q	0.07	Q	31.91
100 .....	1,047	Q	252	Q	3,616	1,981	2,496	663	0.29	Q	0.10	Q	22.80
<b>Heating Equipment (more than one may apply)</b>													
Heat Pumps .....	94	Q	33	Q	610	Q	528	Q	0.15	Q	0.06	Q	43.81
Furnaces .....	242	Q	96	Q	926	594	631	Q	0.26	Q	0.15	Q	24.12
Individual Space Heaters .....	359	44	108	Q	1,711	915	1,563	505	0.21	Q	0.07	Q	26.65
District Heat .....	Q	Q	Q	Q	600	300	251	Q	0.08	Q	0.01	Q	52.90
Boilers .....	1,111	Q	220	Q	3,749	1,568	1,792	734	0.30	Q	0.12	Q	24.65
Packaged Heating Units .....	80	Q	Q	Q	711	456	534	Q	0.11	Q	Q	Q	42.20
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Energy Conservation Features (more than one may apply)</b>													
Any Conservation Features .....	1,382	186	340	Q	5,520	2,507	3,538	1,553	0.25	0.07	0.10	Q	20.27
Building Shell .....	1,350	182	310	Q	5,459	2,502	3,494	1,545	0.25	0.07	0.09	Q	20.78
HVAC .....	1,287	136	276	Q	5,162	2,272	3,136	1,530	0.25	0.06	0.09	Q	22.08
Lighting .....	613	Q	102	23	3,345	1,645	2,361	1,258	0.18	Q	0.04	0.02	26.28
Other .....	289	Q	Q	Q	800	415	506	Q	0.36	Q	0.07	Q	40.23
<b>Energy Management Practices (more than one may apply)</b>													
Energy Management and Control System .....	248	Q	Q	Q	1,349	1,378	1,715	931	0.18	Q	Q	Q	31.23
Demand-Side Management <sup>1</sup> Participation .....	366	Q	58	Q	1,577	835	1,277	447	0.23	Q	0.05	Q	32.70
Energy Audit .....	461	Q	60	7	1,932	641	1,240	717	0.24	Q	0.05	Q	26.86
Building Energy Manager .....	Q	Q	Q	Q	Q	Q	336	Q	Q	Q	Q	Q	47.27
<b>Annual Consumption (gallons)</b>													
1,000 or less .....	44	11	50	Q	1,369	1,699	1,945	1,216	0.03	0.01	0.03	Q	26.37
1,001 to 5,000 .....	312	60	87	Q	1,201	549	877	Q	0.26	0.11	Q	Q	21.19
5,001 to 10,000 .....	173	Q	Q	Q	936	Q	Q	Q	0.18	Q	Q	Q	33.80
10,001 to 25,000 .....	247	Q	Q	Q	580	Q	Q	Q	0.43	Q	Q	Q	30.99
Over 25,000 .....	612	Q	Q	Q	1,448	Q	Q	Q	0.42	Q	Q	Q	25.61

<sup>1</sup> 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.

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.44. Fuel Oil Expenditures by Census Region, 1992**

Building Characteristics	Total Fuel Oil Expenditures (million dollars)				Fuel Oil Expenditures (dollars)								RSE Row Factor
					per Gallon				per Square Foot				
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
RSE Column Factor:	1.4	2.6	1.9	1.4	0.3	0.5	0.3	0.3	0.9	2.6	1.8	2.2	
<b>All Buildings</b> .....	989	132	257	Q	0.71	0.70	0.75	0.61	0.18	0.05	0.07	Q	13.65
<b>Building Floorspace (square feet)</b>													
1,001 to 10,000 .....	332	58	115	Q	0.83	0.79	0.89	Q	0.34	0.26	0.21	Q	10.69
10,001 to 100,000 .....	418	30	Q	Q	0.71	0.76	0.68	Q	0.21	0.04	Q	Q	12.72
Over 100,000 .....	239	Q	34	Q	0.61	0.59	0.62	0.74	0.09	Q	0.02	Q	22.70
<b>Principal Building Activity</b>													
Education .....	217	Q	Q	Q	0.63	Q	Q	Q	0.20	Q	Q	Q	13.52
Mercantile and Service .....	204	Q	Q	Q	0.84	Q	0.76	Q	0.21	Q	0.23	Q	13.19
Office .....	192	Q	25	Q	0.71	0.77	0.74	0.74	0.15	Q	0.02	Q	24.86
Public Assembly .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Warehouse and Storage .....	95	Q	Q	Q	0.82	Q	Q	Q	0.20	Q	Q	Q	26.50
All Others .....	224	Q	64	Q	0.66	0.66	0.81	Q	0.16	Q	0.06	Q	20.96
<b>Year Constructed</b>													
1945 or Before .....	332	Q	53	Q	0.72	0.64	0.80	Q	0.19	Q	0.13	Q	17.33
1946 to 1959 .....	236	Q	51	Q	0.71	Q	0.76	Q	0.29	Q	0.12	Q	16.04
1960 to 1969 .....	188	Q	56	Q	0.72	0.83	0.74	Q	0.21	Q	0.06	Q	20.24
1970 to 1979 .....	154	Q	Q	Q	0.71	0.81	0.71	Q	0.17	0.03	Q	Q	15.64
1980 to 1989 .....	65	Q	18	Q	0.70	0.85	0.79	Q	0.07	Q	0.02	Q	19.10
1990 to 1992 .....	Q	Q	Q	Q	0.65	0.83	0.84	0.95	Q	Q	Q	Q	23.95
<b>Climate Zone: 45-Year Average</b>													
Fewer than 2,000 CDD and -- More than 7,000 HDD .....	Q	40	Q	Q	0.71	0.75	Q	Q	0.27	0.05	Q	Q	16.46
5,500-7,000 HDD .....	427	43	Q	Q	0.70	0.73	Q	Q	0.16	0.03	Q	Q	17.23
4,000-5,499 HDD .....	368	Q	154	Q	0.74	Q	0.74	Q	0.17	Q	0.13	Q	16.01
Fewer than 4,000 HDD .....	Q	Q	Q	Q	Q	Q	0.73	0.79	Q	Q	0.04	Q	32.05
More than 2,000 CDD and -- Fewer than 4,000 HDD .....	Q	Q	53	Q	Q	Q	0.79	Q	Q	Q	0.05	Q	23.28
<b>Energy Sources (more than one may apply)</b>													
Electricity .....	989	130	257	Q	0.71	0.70	0.75	0.61	0.18	0.05	0.07	Q	12.37
Natural Gas .....	329	Q	97	Q	0.65	0.66	0.68	0.63	0.11	Q	0.05	Q	21.14
Fuel Oil .....	989	132	257	Q	0.71	0.70	0.75	0.61	0.18	0.05	0.07	Q	13.65
District Heat .....	Q	Q	Q	Q	0.37	Q	Q	Q	0.03	Q	Q	Q	36.12
District Chilled Water .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Propane .....	150	Q	Q	Q	0.69	Q	Q	Q	0.18	Q	Q	Q	18.94
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Energy End Uses (more than one may apply)</b>													
Heated Buildings .....	989	132	254	Q	0.71	0.70	0.75	0.61	0.18	0.05	0.07	Q	13.65
Buildings with A/C .....	774	96	223	10	0.70	0.68	0.73	0.77	0.16	0.04	0.07	0.01	12.68
Buildings with Water Heating .....	921	113	218	Q	0.70	0.69	0.73	0.61	0.18	0.05	0.06	Q	14.49
Buildings with Cooking .....	376	Q	68	4	0.66	0.64	0.67	0.75	0.13	Q	0.03	(*)	12.74
Buildings with Manufacturing .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Workers (main shift)</b>													
Less than 10 .....	328	63	132	Q	0.83	0.78	0.81	Q	0.26	Q	0.18	Q	10.42
10 to 99 .....	436	20	90	Q	0.71	0.77	0.72	Q	0.23	0.03	0.14	Q	15.33
100 or More .....	225	Q	35	Q	0.59	0.61	0.62	0.75	0.09	Q	0.02	Q	21.52
<b>Weekly Operating Hours</b>													
48 or Fewer .....	371	50	127	Q	0.73	0.79	0.75	Q	0.22	0.07	0.12	Q	15.91
49 to 84 .....	311	32	79	Q	0.76	0.67	0.79	0.61	0.17	0.04	0.06	Q	13.41
85 to 168 .....	307	Q	51	Q	0.65	0.65	0.69	Q	0.15	Q	0.04	Q	25.84

See footnotes at end of table.

**Table 3.44. Fuel Oil Expenditures by Census Region, 1992 (Continued)**

Building Characteristics	Total Fuel Oil Expenditures (million dollars)				Fuel Oil Expenditures (dollars)								RSE Row Factor
					per Gallon				per Square Foot				
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
RSE Column Factor:	1.4	2.6	1.9	1.4	0.3	0.5	0.3	0.3	0.9	2.6	1.8	2.2	
<b>Ownership and Occupancy</b>													
Nongovernment Owned .....	703	73	144	Q	0.75	0.78	0.82	0.64	0.17	0.04	0.06	Q	11.94
Owner Occupied .....	630	67	112	Q	0.75	0.77	0.81	0.63	0.19	0.05	0.06	Q	12.40
Single Establishment .....	490	49	105	Q	0.79	0.80	0.81	0.61	0.21	0.06	0.08	Q	14.22
Multiple Establishment .....	140	Q	Q	Q	0.64	0.70	0.88	0.73	0.13	Q	Q	Q	27.29
Nonowner Occupied .....	69	Q	32	Q	0.72	Q	0.84	Q	0.11	Q	0.07	Q	27.20
Single Establishment .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Multiple Establishment .....	Q	Q	Q	Q	Q	Q	0.82	Q	Q	Q	Q	Q	2.82
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned .....	286	Q	Q	Q	0.64	0.63	0.67	Q	0.20	Q	Q	Q	13.96
<b>Predominant Exterior Wall Material</b>													
Masonry .....	805	104	201	Q	0.70	0.67	0.74	0.58	0.19	0.06	0.08	Q	16.99
Siding or Shingles .....	98	Q	Q	Q	0.83	Q	Q	Q	0.22	Q	Q	Q	13.03
Metal Panels .....	Q	Q	Q	Q	0.78	Q	Q	Q	0.15	Q	Q	Q	37.19
Concrete Panels .....	Q	Q	Q	Q	Q	Q	0.88	Q	Q	Q	Q	Q	70.49
Window Glass .....	Q	Q	Q	Q	Q	Q	0.67	Q	Q	Q	Q	Q	53.01
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Predominant Roof Material</b>													
Built-Up .....	386	30	117	Q	0.73	0.67	0.69	0.60	0.20	0.03	0.06	Q	15.70
Shingles (Not Wood) .....	204	Q	52	Q	0.76	Q	0.88	Q	0.20	Q	0.17	Q	13.99
Metal Surfacing .....	46	Q	43	Q	0.81	Q	0.82	Q	0.20	Q	0.17	Q	17.18
Synthetic or Rubber .....	263	Q	Q	Q	0.68	0.67	0.73	Q	0.17	Q	Q	Q	20.77
Other .....	89	Q	Q	Q	0.61	Q	0.68	Q	0.11	Q	Q	Q	33.33
<b>Space-Heating Energy Source</b>													
Fuel Oil .....	974	116	230	Q	0.71	0.69	0.74	Q	0.23	0.09	0.14	Q	13.29
Fuel Oil Main .....	910	103	184	Q	0.72	0.70	0.74	Q	0.28	0.24	0.25	Q	12.76
Fuel Oil Secondary .....	64	Q	46	Q	0.57	Q	0.74	Q	0.06	Q	0.05	Q	25.53
Other Excluding Fuel Oil .....	15	Q	Q	6	0.81	0.84	0.81	0.84	0.01	0.01	Q	0.01	27.67
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Main Space-Heating Energy Source</b>													
Electricity .....	Q	Q	18	Q	0.70	Q	0.88	0.89	Q	Q	0.02	Q	24.54
Natural Gas .....	41	Q	45	Q	0.74	0.68	0.71	Q	0.04	Q	0.03	Q	26.02
Fuel Oil .....	910	103	184	Q	0.72	0.70	0.74	Q	0.28	0.24	0.25	Q	12.76
District Heat .....	Q	Q	Q	Q	0.35	0.79	Q	Q	0.00	Q	Q	Q	27.06
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Replacement Energy Source for Main Heating</b>													
Electricity Only .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Natural Gas Only .....	173	Q	Q	Q	0.68	Q	Q	Q	0.33	Q	Q	Q	22.35
Fuel Oil Only .....	28	6	Q	Q	0.71	0.79	0.63	Q	0.04	0.01	0.03	Q	21.05
Propane Only .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other Single Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
No Replacement Energy Source .....	694	69	167	Q	0.71	0.75	0.75	0.62	0.18	0.05	0.07	Q	15.20
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Water-Heating Energy Source</b>													
Fuel Oil .....	574	Q	Q	Q	0.70	Q	Q	Q	0.27	Q	Q	Q	12.35
Other Excluding Fuel Oil .....	347	73	152	19	0.72	0.75	0.75	0.66	0.11	0.03	0.05	Q	13.19
Water Heating Not Performed .....	68	Q	39	Q	0.84	Q	0.87	Q	0.23	Q	0.19	Q	19.49

See footnotes at end of table.

**Table 3.44. Fuel Oil Expenditures by Census Region, 1992 (Continued)**

Building Characteristics	Total Fuel Oil Expenditures (million dollars)				Fuel Oil Expenditures (dollars)								RSE Row Factor
					per Gallon				per Square Foot				
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West	
RSE Column Factor:	1.4	2.6	1.9	1.4	0.3	0.5	0.3	0.3	0.9	2.6	1.8	2.2	
<b>Percent of Floorspace Heated</b>													
Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50 .....	Q	Q	Q	Q	0.68	Q	Q	Q	0.12	Q	Q	Q	NF
51 to 99 .....	151	Q	31	8	0.71	0.62	0.73	0.58	0.13	Q	0.05	Q	25.85
100 .....	751	94	184	Q	0.72	0.71	0.73	0.61	0.21	0.05	0.07	Q	13.15
<b>Heating Equipment (more than one may apply)</b>													
Heat Pumps .....	60	Q	27	Q	0.64	Q	0.80	Q	0.10	Q	0.05	Q	27.89
Furnaces .....	203	57	82	Q	0.84	0.77	0.85	Q	0.22	Q	0.13	Q	13.93
Individual Space Heaters .....	258	34	86	Q	0.72	0.79	0.80	0.61	0.15	Q	0.06	Q	15.12
District Heat .....	Q	Q	2	Q	0.37	0.79	0.68	Q	0.03	Q	0.01	Q	28.56
Boilers .....	784	Q	150	Q	0.71	0.65	0.68	0.61	0.21	Q	0.08	Q	11.71
Packaged Heating Units .....	54	Q	Q	Q	0.67	0.53	0.77	Q	0.08	0.03	Q	Q	30.87
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Energy Conservation Features (more than one may apply)</b>													
Any Conservation Features .....	984	131	254	Q	0.71	0.70	0.75	0.61	0.18	0.05	0.07	Q	13.66
Building Shell .....	961	128	230	Q	0.71	0.70	0.74	0.66	0.18	0.05	0.07	Q	14.06
HVAC .....	908	93	199	Q	0.71	0.69	0.72	0.65	0.18	0.04	0.06	Q	15.29
Lighting .....	441	Q	72	Q	0.72	0.66	0.70	0.64	0.13	Q	0.03	Q	17.49
Other .....	184	Q	Q	Q	0.64	0.82	0.70	Q	0.23	Q	0.05	Q	28.48
<b>Energy Management Practices (more than one may apply)</b>													
Energy Management and Control System .....	159	Q	Q	Q	0.64	0.59	0.64	0.73	0.12	Q	Q	Q	17.07
Demand-Side Management <sup>1</sup> Participation .....	241	Q	40	Q	0.66	0.58	0.69	0.83	0.15	Q	0.03	Q	19.64
Energy Audit .....	319	Q	44	5	0.69	0.59	0.73	0.75	0.17	0.02	0.04	Q	16.21
Building Energy Manager .....	Q	Q	Q	Q	Q	Q	0.72	Q	Q	Q	Q	Q	40.57
<b>Annual Consumption (gallons)</b>													
1,000 or less .....	42	10	46	Q	0.94	0.89	0.92	1.04	0.03	0.01	0.02	Q	15.11
1,001 to 5,000 .....	268	50	76	Q	0.86	0.83	0.87	Q	0.22	0.09	Q	Q	9.97
5,001 to 10,000 .....	131	Q	Q	Q	0.76	Q	Q	Q	0.14	Q	Q	Q	19.72
10,001 to 25,000 .....	174	Q	Q	Q	0.71	Q	Q	Q	0.30	Q	Q	Q	16.91
Over 25,000 .....	373	Q	Q	Q	0.61	Q	Q	Q	0.26	Q	Q	Q	18.68

<sup>1</sup> 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.

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

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.45. Fuel Oil Consumption and Conditional Energy Intensity for Buildings Heated with Fuel Oil, 1992**

Building Characteristics	Total Fuel Oil Consumption (million gallons)			Total Floorspace of Buildings Using Fuel Oil (million square feet)			Fuel Oil Energy Intensity (gallons/sq. ft.)			RSE Row Factor
	All Buildings Heated with Fuel Oil	Buildings Heated with Fuel Oil		All Buildings Heated with Fuel Oil	Buildings Heated with Fuel Oil		All Buildings Heated with Fuel Oil	Buildings Heated with Fuel Oil		
		Main Heating	Secondary Heating		Main Heating	Secondary Heating		Main Heating	Secondary Heating	
RSE Column Factor:	1.0	1.1	1.7	0.8	0.9	1.1	0.7	0.6	1.6	
<b>All Buildings</b> .....	1,877	1,677	200	7,323	4,404	2,919	0.26	0.38	0.07	14.62
<b>Building Floorspace (square feet)</b>										
1,001 to 10,000 .....	603	560	Q	1,620	1,406	Q	0.37	0.40	Q	15.32
10,001 to 100,000 .....	772	718	55	2,764	1,868	895	0.28	0.38	0.06	19.67
Over 100,000 .....	502	399	102	2,939	1,130	1,810	0.17	0.35	0.06	24.20
<b>Principal Building Activity</b>										
Education .....	439	414	Q	1,548	996	Q	0.28	0.42	Q	16.93
Mercantile and Service .....	382	357	Q	1,128	833	Q	0.34	0.43	Q	26.05
Office .....	323	307	16	1,345	998	346	0.24	0.31	0.05	23.00
Public Assembly .....	107	Q	Q	509	Q	Q	0.21	Q	Q	48.12
Warehouse and Storage .....	157	121	Q	683	366	Q	0.23	0.33	Q	33.75
All Others .....	470	385	Q	2,110	976	1,134	0.22	0.39	Q	27.21
<b>Year Constructed</b>										
1945 or Before .....	643	543	Q	2,348	1,555	794	0.27	0.35	0.13	23.68
1946 to 1959 .....	426	415	Q	1,201	996	Q	0.35	0.42	Q	20.00
1960 to 1969 .....	339	301	38	1,505	739	766	0.23	0.41	0.05	28.05
1970 to 1979 .....	338	299	38	1,484	700	784	0.23	0.43	0.05	26.86
1980 to 1989 .....	109	101	Q	660	350	Q	0.17	0.29	Q	30.07
1990 to 1992 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Census Region and Division</b>										
Northeast .....	1,369	1,256	113	4,228	3,202	1,026	0.32	0.39	0.11	17.26
New England .....	630	559	Q	1,718	1,366	Q	0.37	0.41	Q	23.57
Middle Atlantic .....	739	697	42	2,509	1,835	674	0.29	0.38	0.06	19.54
Midwest .....	168	146	Q	1,225	426	799	0.14	0.34	Q	41.33
East North Central .....	85	64	Q	610	283	Q	0.14	0.22	Q	31.59
West North Central .....	Q	Q	Q	615	Q	Q	Q	Q	(*)	37.64
South .....	310	248	62	1,618	728	890	0.19	0.34	0.07	29.75
South Atlantic .....	267	225	42	1,332	627	705	0.20	0.36	Q	35.15
East South Central .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
West South Central .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
West .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Mountain .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Pacific .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and --										
More than 7,000 HDD .....	322	309	Q	1,283	861	423	0.25	0.36	Q	37.59
5,500-7,000 HDD .....	660	559	Q	2,322	1,360	962	0.28	0.41	0.11	23.35
4,000-5,499 HDD .....	783	751	33	2,827	1,984	843	0.28	0.38	0.04	17.77
Fewer than 4,000 HDD .....	Q	Q	Q	Q	Q	Q	0.09	Q	Q	62.20
More than 2,000 CDD and --										
Fewer than 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	1,877	1,677	200	7,322	4,404	2,919	0.26	0.38	0.07	15.00
Natural Gas .....	721	548	174	3,861	1,262	2,598	0.19	0.43	0.07	23.76
Fuel Oil .....	1,877	1,677	200	7,323	4,404	2,919	0.26	0.38	0.07	14.62
District Heat .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
District Chilled Water .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Propane .....	245	233	Q	935	664	Q	0.26	0.35	Q	27.21
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.



**Table 3.45. Fuel Oil Consumption and Conditional Energy Intensity for Buildings Heated with Fuel Oil, 1992 (Continued)**

Building Characteristics	Total Fuel Oil Consumption (million gallons)			Total Floorspace of Buildings Using Fuel Oil (million square feet)			Fuel Oil Energy Intensity (gallons/sq. ft.)			RSE Row Factor
	All Buildings Heated with Fuel Oil	Buildings Heated with Fuel Oil		All Buildings Heated with Fuel Oil	Buildings Heated with Fuel Oil		All Buildings Heated with Fuel Oil	Buildings Heated with Fuel Oil		
		Main Heating	Secondary Heating		Main Heating	Secondary Heating		Main Heating	Secondary Heating	
RSE Column Factor:	1.0	1.1	1.7	0.8	0.9	1.1	0.7	0.6	1.6	
<b>Energy End Uses (more than one may apply)</b>										
Heated Buildings .....	1,877	1,677	200	7,323	4,404	2,919	0.26	0.38	0.07	14.62
Buildings with A/C .....	1,497	1,309	187	6,296	3,528	2,768	0.24	0.37	0.07	15.80
Buildings with Water Heating .....	1,734	1,544	190	6,785	3,899	2,885	0.26	0.40	0.07	14.71
Buildings with Cooking .....	741	663	79	3,484	1,704	1,780	0.21	0.39	0.04	18.50
Buildings with Manufacturing .....	197	Q	Q	505	Q	Q	0.39	Q	Q	41.77
<b>Workers (main shift)</b>										
Less than 10 .....	640	588	51	2,244	1,768	476	0.29	0.33	0.11	19.84
10 to 99 .....	751	705	46	2,263	1,556	707	0.33	0.45	0.06	17.78
100 or More .....	486	383	103	2,817	1,080	1,736	0.17	0.36	0.06	25.82
<b>Weekly Operating Hours</b>										
48 or Fewer .....	738	698	41	2,560	2,006	554	0.29	0.35	Q	20.01
49 to 84 .....	558	496	62	2,192	1,347	845	0.25	0.37	0.07	15.76
85 to 168 .....	581	484	Q	2,570	1,050	1,520	0.23	0.46	0.06	27.95
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	1,173	1,032	140	4,933	3,150	1,784	0.24	0.33	0.08	17.03
Owner Occupied .....	1,035	909	126	4,017	2,568	1,450	0.26	0.35	0.09	18.27
Single Establishment .....	786	715	71	3,191	2,067	1,124	0.25	0.35	0.06	17.10
Multiple Establishment .....	249	194	Q	827	501	Q	0.30	0.39	Q	34.10
Nonowner Occupied .....	132	118	Q	787	453	Q	0.17	0.26	Q	30.86
Single Establishment .....	41	40	Q	308	187	Q	0.13	0.21	Q	37.38
Multiple Establishment .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned .....	704	645	59	2,390	1,254	1,135	0.29	0.51	0.05	22.03
<b>Predominant Exterior Wall Material</b>										
Masonry .....	1,566	1,400	165	5,825	3,493	2,332	0.27	0.40	0.07	16.44
Siding or Shingles .....	151	144	Q	534	475	Q	0.28	0.30	Q	19.19
Metal Panels .....	102	82	Q	481	271	Q	0.21	0.30	Q	42.54
Concrete Panels .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Window Glass .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Predominant Roof Material</b>										
Built-Up .....	720	640	80	2,824	1,386	1,438	0.25	0.46	0.06	21.45
Shingles (Not Wood) .....	347	335	Q	1,421	1,180	Q	0.24	0.28	Q	17.62
Metal Surfacing .....	137	114	Q	509	352	Q	0.27	0.32	Q	28.51
Synthetic or Rubber .....	514	482	32	1,924	1,143	781	0.27	0.42	0.04	25.19
Other .....	159	107	Q	645	343	Q	0.25	0.31	Q	35.66
<b>Space-Heating Energy Source</b>										
Fuel Oil .....	1,877	1,677	200	7,323	4,404	2,919	0.26	0.38	0.07	14.62
Fuel Oil Main .....	1,677	1,677	Q	4,404	4,404	Q	0.38	0.38	Q	14.14
Fuel Oil Secondary .....	200	Q	200	2,919	Q	2,919	0.07	Q	0.07	21.76
Other Excluding Fuel Oil .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Main Space-Heating Energy Source</b>										
Electricity .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Natural Gas .....	121	Q	121	2,212	Q	2,212	0.05	Q	0.05	18.55
Fuel Oil .....	1,677	1,677	Q	4,404	4,404	Q	0.38	0.38	Q	14.14
District Heat .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Wood .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.45. Fuel Oil Consumption and Conditional Energy Intensity for Buildings Heated with Fuel Oil, 1992 (Continued)**

Building Characteristics	Total Fuel Oil Consumption (million gallons)			Total Floorspace of Buildings Using Fuel Oil (million square feet)			Fuel Oil Energy Intensity (gallons/sq. ft.)			RSE Row Factor
	All Buildings Heated with Fuel Oil	Buildings Heated with Fuel Oil		All Buildings Heated with Fuel Oil	Buildings Heated with Fuel Oil		All Buildings Heated with Fuel Oil	Buildings Heated with Fuel Oil		
		Main Heating	Secondary Heating		Main Heating	Secondary Heating		Main Heating	Secondary Heating	
	RSE Column Factor:	1.0	1.1	1.7	0.8	0.9	1.1	0.7	0.6	
<b>Replacement Energy Source for Main Heating</b>										
Electricity Only .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Natural Gas Only .....	338	336	Q	730	702	Q	0.46	0.48	Q	31.61
Fuel Oil Only .....	89	Q	72	2,160	Q	2,151	0.04	Q	0.03	23.67
Propane Only .....	91	91	Q	260	257	Q	0.35	0.35	Q	28.10
Any Other Single Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
No Replacement Energy Source .....	1,260	1,138	123	3,726	3,053	673	0.34	0.37	0.18	17.74
Building Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Water-Heating Energy Source</b>										
Fuel Oil .....	986	956	Q	2,401	2,115	Q	0.41	0.45	Q	18.01
Other Excluding Fuel Oil .....	748	588	160	4,383	1,784	2,599	0.17	0.33	0.06	17.39
Water Heating Not Performed .....	143	133	Q	538	505	Q	0.27	0.26	Q	27.10
<b>Percent of Floorspace Heated</b>										
Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50 .....	183	121	Q	741	526	Q	0.25	0.23	Q	35.52
51 to 99 .....	295	263	Q	1,444	815	628	0.20	0.32	Q	23.46
100 .....	1,399	1,294	105	5,138	3,062	2,076	0.27	0.42	0.05	15.77
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	115	Q	16	602	Q	327	0.19	Q	Q	35.74
Furnaces .....	418	374	43	1,745	1,291	454	0.24	0.29	0.10	19.86
Individual Space Heaters .....	508	435	73	2,098	1,265	833	0.24	0.34	0.09	20.91
District Heat .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Boilers .....	1,423	1,330	94	5,250	3,120	2,130	0.27	0.43	0.04	14.83
Packaged Heating Units .....	107	Q	Q	627	Q	Q	0.17	Q	Q	33.37
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Energy Conservation Features (more than one may apply)</b>										
Any Conservation Features .....	1,867	1,668	199	7,246	4,357	2,889	0.26	0.38	0.07	14.65
Building Shell .....	1,785	1,601	185	7,142	4,265	2,878	0.25	0.38	0.06	15.18
HVAC .....	1,651	1,477	175	6,282	3,732	2,550	0.26	0.40	0.07	15.50
Lighting .....	805	713	92	3,798	1,946	1,852	0.21	0.37	0.05	18.47
Other .....	335	272	Q	960	492	Q	0.35	0.55	Q	30.05
<b>Energy Management Practices (more than one may apply)</b>										
Energy Management and Control System .....	384	344	40	1,841	684	1,157	0.21	0.50	0.03	26.97
Demand-Side Management <sup>1</sup> Participation .....	479	432	47	2,031	949	1,083	0.24	0.45	0.04	23.93
Energy Audit .....	526	461	65	2,248	1,271	978	0.23	0.36	0.07	24.14
Building Energy Manager .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.45. Fuel Oil Consumption and Conditional Energy Intensity for Buildings Heated with Fuel Oil, 1992 (Continued)**

Building Characteristics	Total Fuel Oil Consumption (million gallons)			Total Floorspace of Buildings Using Fuel Oil (million square feet)			Fuel Oil Energy Intensity (gallons/sq. ft.)			RSE Row Factor
	All Buildings Heated with Fuel Oil	Buildings Heated with Fuel Oil		All Buildings Heated with Fuel Oil	Buildings Heated with Fuel Oil		All Buildings Heated with Fuel Oil	Buildings Heated with Fuel Oil		
		Main Heating	Secondary Heating		Main Heating	Secondary Heating		Main Heating	Secondary Heating	
RSE Column Factor:	1.0	1.1	1.7	0.8	0.9	1.1	0.7	0.6	1.6	
<b>Annual Consumption (gallons)</b>										
1,000 or less .....	94	78	16	2,058	547	1,511	0.05	0.14	0.01	19.18
1,001 to 5,000 .....	438	399	Q	1,799	1,288	Q	0.24	0.31	Q	16.96
5,001 to 10,000 .....	241	208	Q	953	604	Q	0.25	0.34	Q	26.94
10,001 to 25,000 .....	278	256	Q	728	561	Q	0.38	0.46	Q	25.43
Over 25,000 .....	826	737	Q	1,784	1,403	Q	0.46	0.53	Q	23.13

<sup>1</sup> 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.

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

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.46. Total District Heat Consumption and Expenditures, 1992**

Building Characteristics	All Buildings Using District Heat			District Heat Consumption		District Heat Expenditures	RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (billion pounds)	Total (million dollars)	
	1.1	1.0	0.9	1.0	1.0	1.0	
<b>All Buildings</b> .....	95	5,245	55	435	435	2,901	15.98
<b>Building Floorspace (square feet)</b>							
1,001 to 5,000 .....	Q	Q	Q	Q	Q	Q	NF
5,001 to 10,000 .....	Q	Q	Q	Q	Q	Q	NF
10,001 to 25,000 .....	28	450	16	65	65	336	28.29
25,001 to 50,000 .....	16	545	35	Q	Q	Q	16.68
50,001 to 100,000 .....	9	638	68	50	50	353	24.21
100,001 to 200,000 .....	6	780	123	59	59	451	22.37
200,001 to 500,000 .....	5	1,532	324	109	109	755	22.14
Over 500,000 .....	1	1,172	888	70	70	483	24.50
<b>Principal Building Activity</b>							
Education .....	21	688	33	49	49	315	29.02
Food Sales .....	Q	Q	Q	Q	Q	Q	NF
Food Service .....	Q	Q	Q	Q	Q	Q	NF
Health Care .....	Q	403	178	55	55	346	27.70
Lodging .....	9	580	64	65	65	421	37.05
Mercantile and Service .....	Q	Q	Q	Q	Q	Q	NF
Office .....	24	1,712	72	109	109	728	27.49
Parking Garage .....	Q	Q	Q	Q	Q	Q	NF
Public Assembly .....	10	348	34	23	23	164	31.63
Public Order and Safety .....	Q	Q	Q	Q	Q	Q	NF
Religious Worship .....	Q	Q	Q	Q	Q	Q	NF
Warehouse and Storage .....	Q	Q	Q	Q	Q	Q	NF
Other .....	Q	Q	Q	Q	Q	Q	NF
Vacant .....	Q	Q	Q	Q	Q	Q	NF
<b>Year Constructed</b>							
1899 or Before .....	Q	Q	Q	Q	Q	Q	NF
1900 to 1919 .....	Q	Q	Q	Q	Q	Q	NF
1920 to 1945 .....	13	1,057	83	82	82	546	28.31
1946 to 1959 .....	22	566	25	54	54	346	30.23
1960 to 1969 .....	22	1,419	63	121	121	750	30.22
1970 to 1979 .....	9	976	107	55	55	363	25.93
1980 to 1989 .....	11	681	Q	Q	Q	566	38.10
1990 to 1992 .....	Q	Q	Q	Q	Q	Q	NF
<b>Census Region and Division</b>							
Northeast .....	23	1,559	68	123	123	973	19.49
New England .....	Q	413	Q	32	32	219	40.16
Middle Atlantic .....	17	1,146	66	91	91	754	18.49
Midwest .....	24	1,884	80	183	183	1,069	30.26
East North Central .....	10	991	97	103	103	580	32.07
West North Central .....	13	893	67	79	79	Q	45.70
South .....	27	890	33	78	78	492	34.19
South Atlantic .....	Q	436	Q	35	35	282	42.12
East South Central .....	Q	Q	Q	Q	Q	Q	NF
West South Central .....	Q	Q	Q	Q	Q	Q	NF
West .....	21	912	44	51	51	368	31.69
Mountain .....	Q	Q	Q	Q	Q	Q	NF
Pacific .....	12	548	46	27	27	181	35.46
<b>Climate Zone: 45-Year Average</b>							
Fewer than 2,000 CDD and --							
More than 7,000 HDD .....	10	513	51	49	49	229	34.80
5,500-7,000 HDD .....	29	1,944	67	179	179	1,150	25.76
4,000-5,499 HDD .....	27	1,691	63	121	121	984	26.07
Fewer than 4,000 HDD .....	13	595	46	37	37	270	42.01
More than 2,000 CDD and --							
Fewer than 4,000 HDD .....	16	503	Q	49	49	267	41.58

See footnotes at end of table.

**Table 3.46. Total District Heat Consumption and Expenditures, 1992 (Continued)**

Building Characteristics	All Buildings Using District Heat			District Heat Consumption		District Heat Expenditures	RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (billion pounds)	Total (million dollars)	
RSE Column Factor:	1.1	1.0	0.9	1.0	1.0	1.0	
<b>Energy Sources (more than one may apply)</b>							
Electricity .....	95	5,245	55	435	435	2,901	17.90
Natural Gas .....	36	2,677	75	212	212	1,608	21.29
Fuel Oil .....	11	1,288	115	102	102	723	28.14
District Heat .....	95	5,245	55	435	435	2,901	15.98
District Chilled Water .....	23	1,585	68	122	122	789	27.36
Propane .....	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	NF
<b>Energy End Uses (more than one may apply)</b>							
Heated Buildings .....	94	5,230	55	435	435	2,901	15.98
Buildings with A/C .....	81	4,707	58	382	382	2,533	17.39
Buildings with Water Heating .....	81	5,098	63	421	421	2,819	16.24
Buildings with Cooking .....	19	2,280	123	169	169	1,260	18.76
Buildings with Manufacturing .....	Q	Q	Q	Q	Q	Q	NF
<b>Workers (main shift)</b>							
Less than 5 .....	22	Q	Q	26	26	Q	46.01
5 to 9 .....	14	320	23	Q	Q	Q	41.65
10 to 19 .....	22	494	22	41	41	327	32.25
20 to 49 .....	17	518	31	67	67	443	27.14
50 to 99 .....	10	728	72	45	45	237	29.12
100 or More .....	10	2,789	267	202	202	1,484	19.33
<b>Weekly Operating Hours</b>							
39 or Fewer .....	Q	Q	Q	Q	Q	Q	NF
40 to 48 .....	34	806	24	72	72	412	31.37
49 to 60 .....	16	981	62	Q	Q	376	31.43
61 to 84 .....	9	702	82	43	43	260	37.44
85 to 167 .....	7	508	69	40	40	277	37.54
Open Continuously .....	19	1,888	100	210	210	1,500	22.73
<b>Ownership and Occupancy</b>							
Nongovernment Owned .....	44	2,814	64	242	242	1,556	22.16
Owner Occupied .....	34	2,462	72	222	222	1,360	22.72
Single Establishment .....	31	1,836	60	193	193	1,126	27.07
Multiple Establishment .....	4	625	168	29	29	234	37.21
Nonowner Occupied .....	Q	350	39	20	20	193	34.58
Single Establishment .....	Q	Q	Q	Q	Q	Q	NF
Multiple Establishment .....	Q	Q	Q	Q	Q	Q	NF
Vacant .....	Q	Q	Q	Q	Q	Q	NF
Government Owned .....	51	2,431	48	193	193	1,345	19.82
<b>Predominant Exterior Wall Material</b>							
Masonry .....	76	3,753	49	309	309	2,038	14.71
Siding or Shingles .....	Q	Q	Q	Q	Q	Q	NF
Metal Panels .....	Q	Q	Q	Q	Q	Q	NF
Concrete Panels .....	7	699	99	57	57	436	32.66
Window Glass .....	Q	Q	345	Q	Q	115	24.78
Other .....	Q	Q	Q	Q	Q	Q	NF
<b>Predominant Roof Material</b>							
Built-Up .....	40	2,412	60	200	200	1,422	17.53
Shingles (Not Wood) .....	10	Q	Q	40	40	199	43.55
Metal Surfacing .....	Q	Q	Q	Q	Q	Q	NF
Synthetic or Rubber .....	14	1,477	104	109	109	739	28.51
Other .....	19	647	Q	50	50	367	41.89

See footnotes at end of table.

**Table 3.46. Total District Heat Consumption and Expenditures, 1992 (Continued)**

Building Characteristics	All Buildings Using District Heat			District Heat Consumption		District Heat Expenditures	RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (billion pounds)	Total (million dollars)	
	1.1	1.0	0.9	1.0	1.0	1.0	
<b>Space-Heating Energy Source</b>							
District Heat .....	91	5,130	56	404	404	2,776	15.71
District Heat Main .....	89	4,749	54	393	393	2,702	15.35
District Heat Secondary .....	4	Q	0	19	19	131	40.68
Other Excluding District Heat .....	Q	Q	Q	Q	Q	Q	NF
Building Not Heated .....	Q	Q	Q	Q	Q	Q	NF
<b>Main Space-Heating Energy Source</b>							
Electricity .....	Q	Q	Q	Q	Q	Q	NF
Natural Gas .....	Q	Q	Q	Q	Q	Q	NF
Fuel Oil .....	Q	Q	Q	Q	Q	Q	NF
District Heat .....	89	4,749	54	393	393	2,702	15.35
Propane .....	Q	Q	Q	Q	Q	Q	NF
Wood .....	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Energy Source</b>							
District Heat .....	(*)	210	464	18	18	173	26.95
Other Excluding District Heat .....	81	4,497	56	364	364	2,361	18.00
A/C Not Performed .....	13	538	40	53	53	368	26.07
<b>Water-Heating Energy Source</b>							
District Heat .....	36	3,292	91	299	299	1,913	18.11
Other Excluding District Heat .....	45	1,806	40	121	121	906	25.89
Water Heating Not Performed .....	Q	Q	Q	Q	Q	Q	NF
<b>Cooking Energy Source</b>							
District Heat .....	6	809	131	71	71	551	25.60
Other Excluding District Heat .....	12	1,471	118	98	98	709	23.15
Cooking Not Performed .....	76	2,965	39	266	266	1,641	23.41
<b>Manufacturing Energy Source</b>							
District Heat .....	Q	Q	Q	Q	Q	Q	NF
Other Excluding District Heat .....	Q	Q	Q	Q	Q	Q	NF
Manufacturing Not Performed .....	88	4,837	55	385	385	2,629	15.57
<b>Percent of Floorspace Heated</b>							
Not Heated .....	Q	Q	Q	Q	Q	Q	NF
1 to 50 .....	Q	Q	Q	Q	Q	Q	NF
51 to 99 .....	9	815	Q	46	46	339	35.07
100 .....	81	4,105	50	378	378	2,498	18.05
<b>Heating Equipment (more than one may apply)</b>							
Heat Pumps .....	8	450	55	37	37	318	39.03
Furnaces .....	Q	Q	Q	Q	Q	Q	NF
Individual Space Heaters .....	15	1,114	74	97	97	610	34.45
District Heat .....	93	5,145	55	407	407	2,785	15.23
Boilers .....	Q	Q	Q	Q	Q	Q	NF
Packaged Heating Units .....	Q	279	Q	26	26	224	22.92
Other .....	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.46. Total District Heat Consumption and Expenditures, 1992 (Continued)**

Building Characteristics	All Buildings Using District Heat			District Heat Consumption		District Heat Expenditures	RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (billion pounds)	Total (million dollars)	
	1.1	1.0	0.9	1.0	1.0	1.0	
<b>Energy Conservation Features (more than one may apply)</b>							
Any Conservation Features .....	94	5,222	56	434	434	2,892	15.99
Building Shell .....	90	5,041	56	424	424	2,819	16.23
HVAC .....	86	5,067	59	415	415	2,787	16.08
Lighting .....	50	3,046	61	249	249	1,707	17.48
Other .....	10	687	Q	49	49	359	30.18
<b>Energy Management Practices (more than one may apply)</b>							
Energy Management and Control System .....	26	2,523	99	195	195	1,205	22.63
Demand-Side Management <sup>1</sup> Participation .....	30	1,598	53	163	163	987	19.34
Energy Audit .....	27	1,821	67	146	146	981	19.93
Building Energy Manager .....	5	786	145	46	46	226	32.50

<sup>1</sup> 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.

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

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.47. District Heat Consumption and Expenditure Intensities, 1992**

Building Characteristics	District Heat Consumption			District Heat Expenditures			RSE Row Factor
	per Building (thousand pounds)	per Square Foot (pounds)	per Worker (thousand pounds)	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Pound (dollars)	
RSE Column Factor:	1.2	1.0	1.2	1.2	1.0	0.6	
<b>All Buildings</b> .....	4,596	82.90	60.9	30.7	0.55	6.67	14.29
<b>Building Floorspace (square feet)</b>							
1,001 to 5,000 .....	Q	Q	Q	Q	Q	Q	NF
5,001 to 10,000 .....	Q	Q	Q	Q	Q	Q	NF
10,001 to 25,000 .....	2,289	144.13	118.7	11.8	0.75	5.18	32.45
25,001 to 50,000 .....	Q	Q	Q	Q	Q	6.11	17.85
50,001 to 100,000 .....	5,264	77.84	72.7	37.4	0.55	7.11	19.42
100,001 to 200,000 .....	9,363	75.86	52.3	71.4	0.58	7.62	22.65
200,001 to 500,000 .....	23,107	71.30	62.7	159.7	0.49	6.91	19.42
Over 500,000 .....	52,815	59.50	30.5	365.7	0.41	6.92	18.88
<b>Principal Building Activity</b>							
Education .....	2,339	71.84	77.3	14.9	0.46	6.38	18.80
Food Sales .....	Q	Q	Q	Q	Q	Q	NF
Food Service .....	Q	Q	Q	Q	Q	Q	NF
Health Care .....	24,221	136.02	69.2	152.9	0.86	6.31	19.66
Lodging .....	7,232	112.88	308.0	46.4	0.72	6.42	27.30
Mercantile and Service .....	Q	Q	Q	Q	Q	Q	NF
Office .....	4,579	63.60	24.6	30.6	0.43	6.69	23.85
Parking Garage .....	Q	Q	Q	Q	Q	Q	NF
Public Assembly .....	2,202	64.89	63.9	16.0	0.47	7.27	22.01
Public Order and Safety .....	Q	Q	Q	Q	Q	Q	NF
Religious Worship .....	Q	Q	Q	Q	Q	Q	NF
Warehouse and Storage .....	Q	Q	Q	Q	Q	Q	NF
Other .....	Q	Q	Q	Q	Q	Q	NF
Vacant .....	Q	Q	Q	Q	Q	Q	NF
<b>Year Constructed</b>							
1899 or Before .....	Q	Q	Q	Q	Q	Q	NF
1900 to 1919 .....	Q	Q	Q	Q	Q	Q	NF
1920 to 1945 .....	6,447	77.53	72.5	43.0	0.52	6.67	21.29
1946 to 1959 .....	2,393	95.00	62.8	15.4	0.61	6.44	38.18
1960 to 1969 .....	5,421	85.50	50.2	33.5	0.53	6.18	20.92
1970 to 1979 .....	6,047	56.74	46.5	39.6	0.37	6.55	20.67
1980 to 1989 .....	Q	Q	Q	Q	0.83	6.91	34.75
1990 to 1992 .....	Q	Q	Q	Q	Q	Q	NF
<b>Census Region and Division</b>							
Northeast .....	5,332	78.92	45.0	42.1	0.62	7.90	16.73
New England .....	Q	77.13	74.3	Q	0.53	6.88	26.01
Middle Atlantic .....	5,230	79.57	39.6	43.2	0.66	8.26	17.58
Midwest .....	7,728	97.01	97.5	45.2	0.57	5.85	21.69
East North Central .....	10,091	104.27	89.2	56.6	0.58	5.61	22.90
West North Central .....	5,923	88.96	110.8	Q	0.55	6.16	34.99
South .....	2,895	Q	77.5	18.2	Q	6.28	27.56
South Atlantic .....	Q	79.21	60.7	Q	0.65	8.18	36.95
East South Central .....	Q	Q	Q	Q	Q	Q	NF
West South Central .....	Q	Q	Q	Q	Q	Q	NF
West .....	2,432	55.57	33.3	17.7	Q	7.26	34.91
Mountain .....	Q	Q	Q	Q	Q	Q	NF
Pacific .....	2,305	Q	Q	15.2	Q	6.58	26.84
<b>Climate Zone: 45-Year Average</b>							
Fewer than 2,000 CDD and --							
More than 7,000 HDD .....	4,860	94.62	84.5	22.9	0.45	4.72	27.43
5,500-7,000 HDD .....	6,140	92.03	75.0	39.5	0.59	6.43	19.86
4,000-5,499 HDD .....	4,491	71.58	41.3	36.5	0.58	8.13	23.66
Fewer than 4,000 HDD .....	2,921	62.97	46.2	21.1	0.45	7.22	32.33
More than 2,000 CDD and --							
Fewer than 4,000 HDD .....	Q	Q	110.9	Q	Q	5.46	12.69

See footnotes at end of table.



**Table 3.47. District Heat Consumption and Expenditure Intensities, 1992 (Continued)**

Building Characteristics	District Heat Consumption			District Heat Expenditures			RSE Row Factor
	per Building (thousand pounds)	per Square Foot (pounds)	per Worker (thousand pounds)	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Pound (dollars)	
	1.2	1.0	1.2	1.2	1.0	0.6	
<b>Energy Sources (more than one may apply)</b>							
Electricity .....	4,596	82.90	60.9	30.7	0.55	6.67	14.96
Natural Gas .....	5,955	79.34	60.5	45.1	0.60	7.57	17.00
Fuel Oil .....	9,105	79.02	43.5	64.7	0.56	7.10	22.83
District Heat .....	4,596	82.90	60.9	30.7	0.55	6.67	14.29
District Chilled Water .....	5,211	77.16	53.7	33.6	0.50	6.45	20.39
Propane Q .....	Q	Q	Q	Q	Q	Q	NF
Any Other Q .....	Q	Q	Q	Q	Q	Q	NF
<b>Energy End Uses (more than one may apply)</b>							
Heated Buildings .....	4,610	83.13	61.0	30.8	0.55	6.67	14.29
Buildings with A/C .....	4,707	81.12	55.7	31.2	0.54	6.64	15.83
Buildings with Water Heating .....	5,173	82.53	60.7	34.7	0.55	6.70	14.58
Buildings with Cooking .....	9,085	74.16	40.0	67.7	0.55	7.45	15.58
Buildings with Manufacturing .....	Q	Q	Q	Q	Q	Q	NF
<b>Workers (main shift)</b>							
Less than 5 .....	1,202	Q	Q	Q	Q	Q	39.29
5 to 9 .....	Q	Q	Q	Q	Q	4.24	15.96
10 to 19 .....	1,845	82.05	145.4	14.9	0.66	8.07	27.28
20 to 49 .....	4,035	129.33	130.3	26.7	0.86	6.62	27.33
50 to 99 .....	4,457	61.59	65.5	23.6	0.33	5.29	25.25
100 or More .....	19,387	72.57	36.6	142.2	0.53	7.33	14.01
<b>Weekly Operating Hours</b>							
39 or Fewer .....	Q	Q	Q	Q	Q	Q	NF
40 to 48 .....	2,127	88.76	48.3	12.2	0.51	5.76	28.93
49 to 60 .....	Q	Q	Q	23.6	0.38	6.17	33.46
61 to 84 .....	4,977	60.60	46.8	30.4	0.37	6.11	19.27
85 to 167 .....	5,368	77.96	80.5	37.5	0.54	6.99	15.15
Open Continuously .....	11,116	111.38	114.5	79.3	0.79	7.14	15.77
<b>Ownership and Occupancy</b>							
Nongovernment Owned .....	5,542	86.00	59.5	35.6	0.55	6.43	20.28
Owner Occupied .....	6,459	90.11	66.3	39.6	0.55	6.13	21.75
Single Establishment .....	6,310	105.25	94.8	36.8	0.61	5.83	25.62
Multiple Establishment .....	7,684	45.66	21.9	63.1	0.37	8.21	28.58
Nonowner Occupied .....	2,194	56.54	27.4	21.4	0.55	9.74	25.81
Single Establishment .....	Q	Q	Q	Q	Q	Q	NF
Multiple Establishment .....	Q	Q	Q	Q	Q	Q	NF
Vacant Q .....	Q	Q	Q	Q	Q	Q	NF
Government Owned .....	3,785	79.31	62.7	26.4	0.55	6.97	14.30
<b>Predominant Exterior Wall Material</b>							
Masonry .....	4,053	82.33	70.9	26.7	0.54	6.60	13.69
Siding or Shingles .....	Q	Q	Q	Q	Q	Q	NF
Metal Panels .....	Q	Q	Q	Q	Q	Q	NF
Concrete Panels .....	8,038	81.37	53.2	61.6	0.62	7.67	26.36
Window Glass .....	15,981	46.37	23.0	101.5	0.29	6.35	14.12
Other Q .....	Q	Q	Q	Q	Q	Q	NF
<b>Predominant Roof Material</b>							
Built-Up .....	4,991	82.83	48.7	35.5	0.59	7.12	16.26
Shingles (Not Wood) .....	3,856	86.44	110.2	19.4	0.43	5.02	35.77
Metal Surfacing .....	Q	Q	Q	Q	Q	Q	NF
Synthetic or Rubber .....	7,688	73.96	64.6	52.0	0.50	6.77	18.80
Other Q .....	Q	77.81	79.4	Q	0.57	7.29	24.56

See footnotes at end of table.

**Table 3.47. District Heat Consumption and Expenditure Intensities, 1992 (Continued)**

Building Characteristics	District Heat Consumption			District Heat Expenditures			RSE Row Factor
	per Building (thousand pounds)	per Square Foot (pounds)	per Worker (thousand pounds)	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Pound (dollars)	
RSE Column Factor:	1.2	1.0	1.2	1.2	1.0	0.6	
<b>Space-Heating Energy Source</b>							
District Heat .....	4,422	78.71	57.7	30.4	0.54	6.88	13.26
District Heat Main .....	4,425	82.71	59.3	30.4	0.57	6.88	12.54
District Heat Secondary .....	4,646	43.43	Q	31.2	Q	6.71	41.71
Other Excluding District Heat .....	Q	Q	Q	Q	Q	Q	NF
Building Not Heated .....	Q	Q	Q	Q	Q	Q	NF
<b>Main Space-Heating Energy Source</b>							
Electricity .....	Q	Q	Q	Q	Q	Q	NF
Natural Gas .....	Q	Q	Q	Q	Q	Q	NF
Fuel Oil .....	Q	Q	Q	Q	Q	Q	NF
District Heat .....	4,425	82.71	59.3	30.4	0.57	6.88	12.54
Propane .....	Q	Q	Q	Q	Q	Q	NF
Wood .....	Q	Q	Q	Q	Q	Q	NF
Any Other .....	Q	Q	Q	Q	Q	Q	NF
<b>Cooling Energy Source</b>							
District Heat .....	39,518	85.21	24.8	380.4	0.82	9.63	14.17
Other Excluding District Heat .....	4,511	80.93	59.3	29.3	0.53	6.49	16.67
A/C Not Performed .....	3,927	98.47	188.4	27.3	0.68	6.94	22.13
<b>Water-Heating Energy Source</b>							
District Heat .....	8,255	90.95	61.2	52.7	0.58	6.39	14.42
Other Excluding District Heat .....	2,692	67.18	59.5	20.1	0.50	7.47	25.18
Water Heating Not Performed .....	Q	Q	Q	Q	Q	Q	NF
<b>Cooking Energy Source</b>							
District Heat .....	11,503	88.10	46.4	88.9	0.68	7.73	22.06
Other Excluding District Heat .....	7,879	66.50	36.4	57.1	0.48	7.25	21.08
Cooking Not Performed .....	3,496	89.62	91.1	21.6	0.55	6.18	20.44
<b>Manufacturing Energy Source</b>							
District Heat .....	Q	Q	Q	Q	Q	Q	NF
Other Excluding District Heat .....	Q	Q	Q	Q	Q	Q	NF
Manufacturing Not Performed .....	4,356	79.49	56.5	29.8	0.54	6.84	13.70
<b>Percent of Floorspace Heated</b>							
Not Heated .....	Q	Q	Q	Q	Q	Q	NF
1 to 50 .....	Q	Q	Q	Q	Q	Q	NF
51 to 99 .....	Q	56.93	31.6	Q	0.42	7.31	30.67
100 .....	4,645	92.05	68.1	30.7	0.61	6.61	15.44
<b>Heating Equipment (more than one may apply)</b>							
Heat Pumps .....	Q	82.74	43.3	Q	0.71	8.56	21.53
Furnaces .....	Q	Q	Q	Q	Q	Q	NF
Individual Space Heaters .....	6,459	87.26	60.6	40.5	0.55	6.27	32.35
District Heat .....	4,371	79.03	57.8	29.9	0.54	6.85	13.10
Boilers .....	Q	Q	Q	Q	Q	Q	NF
Packaged Heating Units .....	Q	93.59	52.1	Q	0.80	8.58	21.68
Other .....	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 3.47. District Heat Consumption and Expenditure Intensities, 1992 (Continued)**

Building Characteristics	District Heat Consumption			District Heat Expenditures			RSE Row Factor
	per Building (thousand pounds)	per Square Foot (pounds)	per Worker (thousand pounds)	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Pound (dollars)	
	1.2	1.0	1.2	1.2	1.0	0.6	
<b>Energy Conservation Features (more than one may apply)</b>							
Any Conservation Features .....	4,620	83.06	60.8	30.8	0.55	6.67	14.38
Building Shell .....	4,723	84.10	60.1	31.4	0.56	6.65	14.40
HVAC .....	4,830	81.85	59.5	32.5	0.55	6.72	14.27
Lighting .....	4,983	81.88	46.1	34.1	0.56	6.85	14.75
Other .....	Q	71.85	54.8	Q	0.52	7.28	21.25
<b>Energy Management Practices (more than one may apply)</b>							
Energy Management and Control System .....	7,647	77.45	42.7	47.2	0.48	6.17	18.72
Demand-Side Management <sup>1</sup> Participation .....	5,451	102.19	62.5	32.9	0.62	6.04	19.83
Energy Audit .....	5,364	80.11	49.7	36.1	0.54	6.72	19.25
Building Energy Manager .....	8,579	59.02	59.0	41.8	0.29	4.87	22.40

<sup>1</sup> 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.

NF = No applicable RSE row factor.

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. • 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. • 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.

**Table 3.48. Electricity and Natural Gas Consumption by Energy Conservation Features, 1992**

Building Characteristics	Electricity			Natural Gas			RSE Row Factor
	Total (billion kWh)	per Building (thousand kWh)	per Square Foot (kWh)	Total (billion cubic feet)	per Building (thousand cubic feet)	per Square Foot (cubic feet)	
RSE Column Factor:	0.9	1.0	0.6	1.4	1.3	1.2	
<b>All Buildings</b> .....	765	166	11.5	2,113	795	47.0	5.09
<b>Energy Conservation Features (more than one may apply)</b>							
Any Conservation Features .....	755	177	11.9	2,069	817	46.8	5.07
Building Shell .....	735	178	12.0	2,032	827	47.3	5.14
HVAC .....	656	252	13.1	1,753	1,058	48.4	5.35
Lighting .....	418	355	14.2	976	1,254	46.1	6.40
Other .....	72	275	12.2	202	1,158	42.9	8.81
<b>Building Shell Conservation Features (more than one may apply)</b>							
Roof or Ceiling							
Insulation .....	626	190	12.5	1,693	855	47.9	5.33
Wall Insulation .....	442	193	13.4	1,105	828	49.6	6.36
Storm or Multiple Glazing .....	379	228	12.8	1,102	1,060	51.3	6.86
Tinted or Reflective Glass or Shading Film .....	379	358	15.0	918	1,321	50.6	8.65
Exterior or Interior Shading or Awnings .....	466	253	13.7	1,176	965	47.3	6.87
Windows that Open .....	270	131	9.5	1,087	918	53.3	6.72
<b>HVAC Conservation Features (more than one may apply)</b>							
VAV System .....	239	959	17.1	461	2,406	44.9	9.21
Economizer Cycle .....	300	725	16.4	604	2,176	43.6	6.79
HVAC Maintenance .....	645	258	13.1	1,726	1,079	48.6	5.44
<b>Lighting Conservation Features (more than one may apply)</b>							
Specular Reflectors .....	224	391	14.7	535	1,485	47.3	9.57
Natural Lighting Control							
Sensors .....	48	645	15.6	107	2,336	43.8	17.57
Occupancy Sensors .....	62	1,049	17.1	112	2,715	40.0	11.56
Time Clock .....	183	542	15.2	319	1,346	36.4	10.08
Manual Dimmer Switches .....	190	459	15.4	506	1,664	50.3	10.28
Other .....	37	471	14.2	85	1,632	45.3	12.54
<b>Energy Management Practices (more than one may apply)</b>							
Energy Management and Control System .....	241	1,020	16.8	483	2,696	46.5	10.14
Demand-Side Management <sup>1</sup>							
Participation .....	166	527	14.7	513	2,609	59.1	10.23
Energy Audit .....	207	398	14.1	534	1,584	49.0	8.73
Building Energy Manager .....	38	772	16.5	112	3,606	66.8	23.91
<b>Energy Management and Control System (more than one may apply)</b>							
Present in Building .....	241	1,020	16.8	483	2,696	46.5	10.14
Controls Heating .....	217	977	16.2	401	2,350	41.0	8.89
Controls Cooling .....	219	1,114	17.6	427	2,850	47.6	10.86
Controls Hot Water Heating .....	53	1,552	13.7	168	7,900	67.3	19.83
Controls Lighting .....	83	1,516	16.0	140	3,771	40.4	21.53
Controls Other Equipment .....	16	1,286	18.0	24	2,489	30.4	23.08
Not Present in Building .....	524	120	10.0	1,630	658	47.1	5.58

See footnotes at end of table.

**Table 3.48. Electricity and Natural Gas Consumption by Energy Conservation Features, 1992**

Building Characteristics	Electricity			Natural Gas			RSE Row Factor
	Total (billion kWh)	per Building (thousand kWh)	per Square Foot (kWh)	Total (billion cubic feet)	per Building (thousand cubic feet)	per Square Foot (cubic feet)	
	0.9	1.0	0.6	1.4	1.3	1.2	
<b>All Buildings</b> .....	765	166	11.5	2,113	795	47.0	5.09
<b>Energy Conservation Features (more than one may apply)</b>							
Any Conservation Features .....	755	177	11.9	2,069	817	46.8	5.07
Building Shell .....	735	178	12.0	2,032	827	47.3	5.14
HVAC .....	656	252	13.1	1,753	1,058	48.4	5.35
Lighting .....	418	355	14.2	976	1,254	46.1	6.40
Other .....	72	275	12.2	202	1,158	42.9	8.81
<b>Building Shell Conservation Features (more than one may apply)</b>							
Roof or Ceiling							
Insulation .....	626	190	12.5	1,693	855	47.9	5.33
Wall Insulation .....	442	193	13.4	1,105	828	49.6	6.36
Storm or Multiple Glazing .....	379	228	12.8	1,102	1,060	51.3	6.86
Tinted or Reflective Glass or Shading Film .....	379	358	15.0	918	1,321	50.6	8.65
Exterior or Interior Shading or Awnings .....	466	253	13.7	1,176	965	47.3	6.87
Windows that Open .....	270	131	9.5	1,087	918	53.3	6.72
<b>HVAC Conservation Features (more than one may apply)</b>							
VAV System .....	239	959	17.1	461	2,406	44.9	9.21
Economizer Cycle .....	300	725	16.4	604	2,176	43.6	6.79
HVAC Maintenance .....	645	258	13.1	1,726	1,079	48.6	5.44
<b>Lighting Conservation Features (more than one may apply)</b>							
Specular Reflectors .....	224	391	14.7	535	1,485	47.3	9.57
Natural Lighting Control							
Sensors .....	48	645	15.6	107	2,336	43.8	17.57
Occupancy Sensors .....	62	1,049	17.1	112	2,715	40.0	11.56
Time Clock .....	183	542	15.2	319	1,346	36.4	10.08
Manual Dimmer Switches .....	190	459	15.4	506	1,664	50.3	10.28
Other .....	37	471	14.2	85	1,632	45.3	12.54
<b>Energy Management Practices (more than one may apply)</b>							
Energy Management and Control System .....	241	1,020	16.8	483	2,696	46.5	10.14
Demand-Side Management <sup>1</sup>							
Participation .....	166	527	14.7	513	2,609	59.1	10.23
Energy Audit .....	207	398	14.1	534	1,584	49.0	8.73
Building Energy Manager .....	38	772	16.5	112	3,606	66.8	23.91
<b>Energy Management and Control System (more than one may apply)</b>							
Present in Building .....	241	1,020	16.8	483	2,696	46.5	10.14
Controls Heating .....	217	977	16.2	401	2,350	41.0	8.89
Controls Cooling .....	219	1,114	17.6	427	2,850	47.6	10.86
Controls Hot Water Heating .....	53	1,552	13.7	168	7,900	67.3	19.83
Controls Lighting .....	83	1,516	16.0	140	3,771	40.4	21.53
Controls Other Equipment .....	16	1,286	18.0	24	2,489	30.4	23.08
Not Present in Building .....	524	120	10.0	1,630	658	47.1	5.58

See footnotes at end of table.

**Table 3.49. Participation in Electric Utility-Sponsored DSM Programs as Reported by Building Respondent and Electric Utility Respondent, 1992**

Building Characteristics	Participation in Electric Utility-Sponsored DSM Programs												RSE Row Factor
	According to Building Respondent						According to Utility Respondent						
	Number of Buildings (thousand)	Floorspace (million square feet)	Major Fuel Consumption (trillion Btu)	Major Fuel Expenditures (million dollars)	Electricity Consumption (billion kWh)	Electricity Expenditures (million dollars)	Number of Buildings (thousand)	Floorspace (million square feet)	Major Fuel Consumption (trillion Btu)	Major Fuel Expenditures (million dollars)	Electricity Consumption (billion kWh)	Electricity Expenditures (million dollars)	
	1.1	1.2	1.3	1.1	1.1	1.1	0.9	0.8	1.0	0.9	0.8	0.8	
<b>All Buildings Offered</b>													
<b>A DSM Program</b> .....	205	6,572	743	9,294	93	7,287	1,596	26,898	2,324	30,597	311	24,140	8.25
<b>Building Floorspace (square feet)</b>													
1,001 to 10,000 .....	116	562	78	1,190	11	949	1,180	4,864	454	6,738	56	5,265	13.28
10,001 to 100,000 .....	76	2,299	267	2,995	25	2,184	368	10,332	971	11,978	116	9,070	11.08
Over 100,000 .....	13	3,711	398	5,109	56	4,154	48	11,701	900	11,881	139	9,805	11.76
<b>Principal Building Activity</b>													
Education .....	29	1,292	119	1,284	11	879	113	3,459	279	3,197	27	2,292	16.96
Mercantile and Service .....	33	1,126	96	1,659	15	1,437	462	5,635	406	5,910	57	4,775	20.90
Office .....	42	1,664	155	2,590	29	2,239	248	5,634	577	8,719	97	7,312	11.75
Public Assembly .....	13	360	42	510	5	377	116	1,407	109	1,387	14	1,063	24.65
Warehouse and Storage .....	17	382	Q	419	3	259	212	3,834	188	2,299	25	1,815	24.90
All Others .....	71	1,747	280	2,833	30	2,096	446	6,929	764	9,084	92	6,883	12.32
<b>Year Constructed</b>													
1945 or Before .....	47	1,080	121	1,328	10	860	416	5,879	371	4,813	37	3,456	16.00
1946 to 1959 .....	34	838	84	884	10	684	291	4,087	366	4,130	39	2,960	17.57
1960 to 1969 .....	37	1,733	189	2,553	25	2,048	272	5,530	533	6,845	71	5,374	16.46
1970 to 1979 .....	46	1,701	214	2,744	29	2,215	306	5,402	510	7,005	77	5,750	14.51
1980 to 1989 .....	36	969	119	1,458	15	1,185	275	5,147	486	6,860	77	5,770	15.33
1990 to 1992 .....	Q	252	17	328	3	294	35	854	58	943	11	831	22.75
<b>Census Region and Division</b>													
Northeast .....	77	2,721	294	4,200	34	3,232	426	7,771	625	9,302	71	7,049	12.96
New England .....	33	749	91	1,292	10	950	75	1,688	155	2,178	17	1,626	26.16
Middle Atlantic .....	44	1,972	202	2,908	25	2,283	350	6,084	470	7,124	54	5,423	17.42
Midwest .....	57	1,765	203	1,852	20	1,361	378	6,311	576	5,720	67	4,237	18.01
East North Central .....	43	1,215	139	1,292	12	915	258	3,833	363	3,588	38	2,584	21.24
West North Central .....	14	550	64	560	8	445	120	2,478	213	2,131	29	1,653	33.81
South .....	23	789	128	1,419	19	1,155	477	6,633	588	6,970	85	5,551	21.08
South Atlantic .....	22	756	124	1,369	18	1,111	312	4,762	427	5,177	64	4,141	23.28
East South Central .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	11	599	49.29
West South Central .....	Q	Q	Q	Q	Q	Q	111	987	Q	Q	Q	Q	57.53
West .....	47	1,297	119	1,823	19	1,539	315	6,182	535	8,605	88	7,304	17.32
Mountain .....	Q	228	Q	180	Q	155	36	871	116	1,614	20	1,329	39.09
Pacific .....	41	1,070	102	1,643	16	1,384	279	5,311	419	6,992	69	5,976	18.49
<b>Climate Zone: 45-Year Average</b>													
Fewer than 2,000 CDD and --													
More than 7,000 HDD .....	50	1,309	118	1,142	12	857	215	3,464	287	2,787	32	1,979	23.73
5,500-7,000 HDD .....	70	2,150	260	2,917	25	2,106	456	7,872	698	8,387	79	6,273	14.85
4,000-5,499 HDD .....	33	1,551	203	2,903	30	2,371	379	7,304	636	8,568	87	6,692	18.09
Fewer than 4,000 HDD .....	41	1,267	137	1,908	19	1,561	401	6,648	536	8,298	85	7,006	20.32
More than 2,000 CDD and --													
Fewer than 4,000 HDD .....	10	295	25	423	6	392	144	1,608	168	2,556	28	2,191	27.31

See footnotes at end of table.

**Table 3.49. Participation in Electric Utility-Sponsored DSM Programs as Reported by Building Respondent and Electric Utility Respondent, 1992 (Continued)**

Building Characteristics	Participation in Electric Utility-Sponsored DSM Programs												RSE Row Factor
	According to Building Respondent						According to Utility Respondent						
	Number of Buildings (thousand)	Floor-space (million square feet)	Major Fuel Consumption (trillion Btu)	Major Fuel Expenditures (million dollars)	Electricity Consumption (billion kWh)	Electricity Expenditures (million dollars)	Number of Buildings (thousand)	Floor-space (million square feet)	Major Fuel Consumption (trillion Btu)	Major Fuel Expenditures (million dollars)	Electricity Consumption (billion kWh)	Electricity Expenditures (million dollars)	
	1.1	1.2	1.3	1.1	1.1	1.1	0.9	0.8	1.0	0.9	0.8	0.8	
<b>Energy Sources (more than one may apply)</b>													
Electricity .....	205	6,572	743	9,294	93	7,287	1,596	26,898	2,324	30,597	311	24,140	8.09
Natural Gas .....	132	4,945	568	7,013	67	5,471	913	19,688	1,842	22,872	227	17,559	10.23
Fuel Oil .....	35	2,223	318	3,800	37	2,901	284	6,927	730	8,709	93	6,740	15.60
District Heat .....	18	1,049	188	1,986	17	1,241	41	2,285	382	4,389	41	2,892	21.13
District Chilled Water .....	6	407	67	725	9	510	13	876	154	1,796	19	1,298	31.33
Propane .....	13	242	20	408	4	373	159	1,534	107	1,738	17	1,455	25.49
Any Other .....	Q	Q	Q	Q	Q	Q	63	680	30	454	4	355	33.07
<b>Energy End Uses (more than one may apply)</b>													
Heated Buildings .....	202	6,500	738	9,198	91	7,193	1,458	25,506	2,280	29,668	301	23,264	8.18
Buildings with A/C .....	175	6,120	708	8,887	90	7,038	1,170	23,265	2,151	28,398	295	22,615	8.34
Buildings with Water Heating .....	188	6,334	733	9,105	91	7,126	1,235	24,509	2,256	29,403	301	23,140	8.33
Buildings with Cooking .....	59	3,805	475	6,018	62	4,867	288	10,383	1,124	14,446	152	11,539	10.43
Buildings with Manufacturing .....	10	389	86	747	6	458	44	1,489	162	1,721	17	1,225	23.73
<b>Workers (main shift)</b>													
Less than 10 .....	106	1,088	95	1,060	9	766	1,138	8,073	491	6,741	58	5,131	15.46
10 to 99 .....	85	2,265	244	2,937	27	2,170	414	10,423	937	11,890	115	9,101	11.55
100 or More .....	14	3,219	404	5,297	57	4,351	44	8,402	896	11,966	138	9,909	11.47
<b>Weekly Operating Hours</b>													
48 or Fewer .....	68	1,357	103	1,256	11	916	702	7,672	480	6,190	58	4,691	14.05
49 to 84 .....	81	2,436	245	3,282	32	2,655	597	11,351	825	11,803	116	9,555	10.86
85 to 168 .....	56	2,779	395	4,757	50	3,716	297	7,875	1,019	12,604	138	9,894	12.90
<b>Space-Heating Energy Sources (more than one may apply)</b>													
Electricity .....	61	2,530	293	4,169	44	3,526	463	10,152	857	12,436	139	10,591	11.94
Natural Gas .....	119	4,039	448	5,394	52	4,237	833	17,008	1,509	18,193	181	13,931	11.68
Fuel Oil .....	27	1,203	207	1,923	17	1,301	255	4,314	456	4,911	46	3,550	17.99
District Heat .....	16	991	149	1,764	15	1,148	40	2,232	347	4,218	40	2,846	19.22
Propane .....	Q	Q	Q	Q	Q	Q	112	703	28	664	7	640	28.91
Wood .....	Q	Q	Q	Q	Q	Q	41	247	9	154	1	124	33.35
Any Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Energy Conservation Features (more than one may apply)</b>													
Any Conservation Features .....	204	6,564	743	9,289	93	7,284	1,486	26,120	2,297	30,208	309	23,848	8.29
Building Shell .....	200	6,515	739	9,216	92	7,235	1,442	24,986	2,250	29,462	300	23,219	8.36
HVAC .....	168	6,134	707	8,851	89	6,997	948	21,057	2,045	26,803	279	21,252	8.40
Lighting .....	106	5,002	559	7,333	74	5,863	481	13,790	1,360	18,253	195	14,762	9.20
Other .....	27	1,037	125	1,536	13	1,102	113	2,597	251	3,145	32	2,410	14.91

See footnotes at end of table.

**Table 3.49. Participation in Electric Utility-Sponsored DSM Programs as Reported by Building Respondent and Electric Utility Respondent, 1992 (Continued)**

Building Characteristics	Participation in Electric Utility-Sponsored DSM Programs												RSE Row Factor
	According to Building Respondent						According to Utility Respondent						
	Number of Buildings (thousand)	Floor-space (million square feet)	Major Fuel Consumption (trillion Btu)	Major Fuel Expenditures (million dollars)	Electricity Consumption (billion kWh)	Electricity Expenditures (million dollars)	Number of Buildings (thousand)	Floor-space (million square feet)	Major Fuel Consumption (trillion Btu)	Major Fuel Expenditures (million dollars)	Electricity Consumption (billion kWh)	Electricity Expenditures (million dollars)	
	1.1	1.2	1.3	1.1	1.1	1.1	0.9	0.8	1.0	0.9	0.8	0.8	
<b>Building Shell Conservation Features (more than one may apply)</b>													
Roof or Ceiling													
Insulation .....	175	5,671	653	8,239	84	6,529	1,138	20,300	1,915	24,917	263	19,832	8.80
Wall Insulation .....	128	3,628	436	5,393	55	4,235	802	13,513	1,279	16,796	179	13,445	9.76
Storm or Multiple Glazing .....	118	3,879	464	5,339	56	4,124	667	13,201	1,255	15,474	164	12,043	9.68
Tinted or Reflective Glass or Shading Film .....	60	3,419	444	5,608	59	4,518	338	10,142	1,097	14,441	158	11,749	11.68
Exterior or Interior Shading or Awnings .....	103	3,951	455	5,699	62	4,514	601	13,859	1,391	17,934	192	14,243	9.49
Windows that Open .....	91	3,418	391	4,447	41	3,337	790	12,465	1,129	13,174	118	9,529	11.56
<b>HVAC Conservation Features (more than one may apply)</b>													
VAV System .....	20	2,451	307	4,043	44	3,393	109	5,956	684	9,012	106	7,556	13.17
Economizer Cycle .....	50	3,404	391	5,177	56	4,255	167	8,368	894	11,945	141	9,984	11.05
HVAC Maintenance .....	165	6,022	699	8,773	89	6,937	921	20,728	2,021	26,531	276	21,044	8.54
<b>Lighting Conservation Features (more than one may apply)</b>													
Specular Reflectors .....	55	2,967	342	4,712	48	3,846	228	7,277	769	10,075	113	8,182	13.01
Natural Lighting Control													
Sensors .....	6	804	80	1,110	10	895	28	1,269	151	1,980	21	1,555	26.31
Occupancy Sensors .....	7	814	105	1,356	16	1,071	28	1,896	207	3,029	31	2,464	17.13
Time Clock .....	36	2,279	204	3,295	33	2,882	131	5,293	475	7,573	83	6,572	14.74
Manual Dimmer Switches .....	36	2,807	319	4,305	46	3,530	179	6,421	694	8,585	94	6,762	13.80
Other .....	19	878	94	1,186	12	925	50	1,742	173	2,249	22	1,743	17.63
<b>Energy Management and Control System (more than one may apply)</b>													
Present in Building .....	31	2,898	383	4,418	49	3,458	105	6,764	753	9,540	110	7,759	12.28
Controls Heating .....	30	2,656	350	4,070	43	3,176	102	6,392	707	8,895	101	7,188	12.60
Controls Cooling .....	24	2,317	302	3,671	41	2,949	80	5,525	626	8,143	97	6,736	12.98
Controls Hot Water													
Heating .....	7	872	111	1,232	14	985	15	1,861	179	2,216	24	1,817	22.83
Controls Lighting .....	10	1,128	93	1,463	16	1,287	25	2,031	178	2,746	32	2,417	21.76
Controls Other Equipment .....	1	226	23	342	4	299	6	496	50	828	9	732	34.99
Not Present in Building .....	173	3,674	361	4,877	44	3,829	1,490	20,134	1,571	21,057	202	16,381	9.75

NF = No applicable RSE row factor.

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. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • Site electricity is the amount of electricity delivered to commercial buildings. Primary electricity, which is not included in the "Total of Major Fuels" category, is site electricity plus the conversion losses in the electric generation process at the utility plant. • 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.