

**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 3.14. 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	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 3.30. 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 3.41. 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 3.46. 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.