

Table C9. Total Electricity Consumption and Expenditures, 1999

	All Buildings Using Electricity			Electricity Consumption			Electricity Expenditures
	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)	
All Buildings	4,395	65,716	15.0	9,352	3,098	908	66,424
Building Floorspace (Square Feet)							
1,001 to 5,000	2,186	6,280	2.9	1,254	415	122	10,262
5,001 to 10,000	1,036	7,721	7.5	853	283	83	7,146
10,001 to 25,000	688	10,843	15.8	1,118	370	109	8,663
25,001 to 50,000	253	9,175	36.3	1,121	371	109	8,188
50,001 to 100,000	143	10,034	70.0	1,491	494	145	10,023
100,001 to 200,000	59	8,246	139.5	1,361	451	132	8,555
200,001 to 500,000	23	6,790	296.0	1,028	340	100	6,432
Over 500,000	7	6,628	929.0	1,127	373	109	7,155
Principal Building Activity							
Education	327	8,651	26.4	777	257	75	5,820
Food Sales	173	993	5.7	498	165	48	3,359
Food Service	349	1,851	5.3	653	216	63	5,082
Health Care	127	2,918	22.9	701	232	68	4,268
Inpatient	11	1,865	168.2	520	172	51	2,948
Outpatient	116	1,053	9.1	181	60	18	1,320
Lodging	153	4,521	29.5	591	196	57	4,266
Mercantile	667	10,398	15.6	1,573	521	153	11,851
Retail (Other Than Mall)	534	4,766	8.9	666	221	65	5,166
Enclosed and Strip Malls	133	5,631	42.2	907	301	88	6,685
Office	738	12,043	16.3	2,314	767	225	15,683
Public Assembly	299	4,340	14.5	577	191	56	3,983
Public Order and Safety	64	1,030	16.0	122	40	12	805
Religious Worship	307	3,405	11.1	126	42	12	1,041
Service	472	3,358	7.1	417	138	41	3,108
Warehouse and Storage	496	9,879	19.9	664	220	64	4,829
Other	98	1,217	12.4	306	101	30	2,063
Vacant	123	1,112	9.0	31	10	3	265
Year Constructed							
1919 or Before	363	3,714	10.2	275	91	27	2,170
1920 to 1945	480	6,281	13.1	556	184	54	4,174
1946 to 1959	716	8,794	12.3	934	310	91	6,989
1960 to 1969	628	10,686	17.0	1,413	468	137	10,250
1970 to 1979	758	11,750	15.5	1,875	621	182	13,461
1980 to 1989	781	13,485	17.3	2,280	755	221	15,777
1990 to 1999	669	11,007	16.5	2,020	669	196	13,604
Census Region and Division							
Northeast	639	11,964	18.7	1,638	543	159	15,133
New England	190	3,615	19.0	399	132	39	3,783
Middle Atlantic	449	8,349	18.6	1,239	411	120	11,351
Midwest	1,113	16,389	14.7	2,000	662	194	12,933
East North Central	730	10,940	15.0	1,296	429	126	8,798
West North Central	383	5,449	14.2	704	233	68	4,135
South	1,689	23,076	13.7	3,766	1,247	366	23,275
South Atlantic	711	10,817	15.2	1,851	613	180	11,968
East South Central	383	5,149	13.4	817	271	79	4,830
West South Central	595	7,110	11.9	1,098	364	107	6,476
West	954	14,287	15.0	1,948	645	189	15,083
Mountain	275	4,292	15.6	530	175	51	3,365
Pacific	679	9,995	14.7	1,418	470	138	11,718

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	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)	
Climate Zone: 45-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	491	5,750	11.7	665	220	65	4,505
5,500-7,000 HDD	924	16,706	18.1	2,027	671	197	15,163
4,000-5,499 HDD	1,029	15,792	15.4	2,385	790	232	17,164
Fewer than 4,000 HDD	1,070	15,922	14.9	2,496	827	242	17,847
2,000 CDD or More and --							
Fewer than 4,000 HDD	882	11,546	13.1	1,779	589	173	11,745
Workers (main shift)							
Fewer than 5	2,121	12,750	6.0	1,009	334	98	8,046
5 to 9	800	6,274	7.8	654	217	64	5,462
10 to 19	683	8,028	11.8	1,055	350	102	8,439
20 to 49	487	10,814	22.2	1,530	507	149	11,068
50 to 99	174	8,898	51.1	1,260	418	122	9,122
100 to 249	90	8,356	92.4	1,534	508	149	9,683
250 or More	39	10,595	270.0	2,309	765	224	14,604
Weekly Operating Hours							
39 or Fewer	770	5,314	6.9	205	68	20	1,717
40 to 48	1,147	13,070	11.4	1,169	387	114	8,799
49 to 60	980	14,186	14.5	1,754	581	170	12,980
61 to 84	649	12,381	19.1	1,776	588	172	13,082
85 to 167	459	8,930	19.5	1,833	607	178	13,107
Open Continuously	390	11,835	30.3	2,614	866	254	16,739
Ownership and Occupancy							
Nongovernment Owned	3,898	53,640	13.8	7,651	2,534	743	55,086
Owner Occupied	2,747	37,506	13.7	5,455	1,807	530	38,540
Nonowner Occupied	1,069	15,441	14.4	2,173	720	211	16,358
Unoccupied	Q	693	Q	Q	Q	Q	Q
Government Owned	498	12,076	24.3	1,701	563	165	11,338
Federal	54	1,711	31.9	370	123	36	2,195
State	83	3,382	40.8	484	160	47	3,189
Local	361	6,983	19.3	846	280	82	5,955
Vacancy Status							
Completely Vacant	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant	79	756	9.5	13	4	1	121
Partially Vacant	636	15,093	23.7	1,955	648	190	13,761
Not At All Vacant	3,636	49,511	13.6	7,366	2,440	715	52,397
Number of Establishments							
One	3,437	42,839	12.5	6,102	2,021	592	43,175
2 to 5	680	10,442	15.3	1,294	429	126	9,297
6 to 10	113	3,568	31.5	611	202	59	4,492
11 to 20	48	3,260	68.0	555	184	54	3,846
More than 20	27	4,809	178.1	764	253	74	5,402
Currently Unoccupied	90	797	8.9	26	9	3	211
Energy Sources (more than one may apply)							
Electricity	4,395	65,716	15.0	9,352	3,098	908	66,424
Natural Gas	2,663	45,496	17.1	6,616	2,191	642	46,431
Fuel Oil	434	13,277	30.6	2,331	772	226	15,165
District Heat	117	5,891	50.2	1,083	359	105	6,841
District Chilled Water	50	2,750	55.4	571	189	55	3,224
Propane	451	6,290	14.0	791	262	77	6,286
Other	153	2,322	15.2	341	113	33	2,512

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	All Buildings Using Electricity			Electricity Consumption			Electricity Expenditures
	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)	
Space-Heating Energy Source							
Electricity	1,880	32,291	17.2	5,135	1,701	499	35,332
Electricity Main	1,128	17,627	15.6	3,114	1,031	302	21,622
Electricity Secondary	752	14,664	19.5	2,021	670	196	13,710
Other Excluding Electricity	2,128	29,274	13.8	3,815	1,264	370	27,832
Buildings without Heating	387	4,151	10.7	402	133	39	3,261
Primary Space-Heating Energy Source							
Electricity	1,128	17,627	15.6	3,114	1,031	302	21,622
Natural Gas	2,182	32,701	15.0	4,353	1,442	423	30,654
Fuel Oil	302	3,711	12.3	305	101	30	2,923
District Heat	77	5,077	66.0	928	308	90	5,784
Propane	282	2,107	7.5	216	72	21	1,960
Other	Q	Q	Q	Q	Q	Q	Q
Cooling Energy Source							
Electricity	3,450	55,545	16.1	8,503	2,816	825	60,281
Other Excluding Electricity	109	2,929	26.8	543	180	53	3,564
Buildings without Cooling	836	7,242	8.7	306	101	30	2,579
Water-Heating Energy Source							
Electricity	1,546	24,171	15.6	3,896	1,290	378	27,581
Other Excluding Electricity	1,693	31,943	18.9	4,689	1,553	455	33,293
Buildings without Water Heating	1,157	9,601	8.3	767	254	74	5,550
Cooking Energy Source							
Electricity	437	13,733	31.4	2,811	931	273	18,252
Other Excluding Electricity	420	10,948	26.1	1,729	573	168	12,621
Buildings without Cooking	3,538	41,035	11.6	4,812	1,594	467	35,551
Energy End Uses (more than one may apply)							
Buildings with Space Heating	4,008	61,565	15.4	8,950	2,965	869	63,164
Buildings with Cooling	3,560	58,474	16.4	9,046	2,996	878	63,845
Buildings with Water Heating	3,239	56,115	17.3	8,585	2,844	833	60,875
Buildings with Cooking	857	24,681	28.8	4,540	1,504	441	30,873
Buildings with Manufacturing	151	3,126	20.7	449	149	44	3,060
Buildings with Electricity Generation	172	11,882	69.3	2,525	836	245	15,509
Percent of Floorspace Heated							
Not Heated	387	4,151	10.7	402	133	39	3,261
1 to 50	569	7,564	13.3	576	191	56	4,533
51 to 99	626	10,737	17.1	1,683	557	163	11,384
100	2,813	43,264	15.4	6,691	2,216	650	47,247
Percent of Floorspace Cooled							
Not Cooled	836	7,242	8.7	306	101	30	2,579
1 to 50	1,012	16,846	16.6	1,315	436	128	10,363
51 to 99	751	16,966	22.6	3,026	1,002	294	20,141
100	1,796	24,662	13.7	4,705	1,559	457	33,342
Percent Lit When Open							
Zero	Q	Q	Q	Q	Q	Q	Q
1 to 50	835	9,187	11.0	672	223	65	5,396
51 to 99	1,228	20,665	16.8	3,034	1,005	295	21,574
100	2,096	34,233	16.3	5,594	1,853	543	39,065
Building Never Open/ Electricity Not Used	202	1,458	7.2	41	14	4	319

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	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)	
Percent Lit When Closed							
Zero	2,174	20,771	9.6	1,772	587	172	14,034
1 to 50	1,688	30,950	18.3	4,413	1,462	428	31,794
51 to 100	143	2,160	15.1	553	183	54	3,857
Building Never Closed/ Electricity Not Used	390	11,835	30.3	2,614	866	254	16,739
Heating Equipment (more than one may apply)							
Heat Pumps	492	8,923	18.1	1,557	516	151	10,243
Furnaces	1,460	14,449	9.9	1,435	475	139	10,722
Individual Space Heaters	886	17,321	19.5	2,215	734	215	15,110
District Heat	96	5,534	57.7	1,022	339	99	6,432
Boilers	581	19,514	33.6	2,755	912	267	18,848
Packaged Heating Units	1,347	25,743	19.1	4,435	1,469	431	31,069
Other	185	4,073	22.1	691	229	67	4,400
Cooling Equipment (more than one may apply)							
Residential-Type Central							
Air Conditioners	676	8,329	12.3	1,037	343	101	7,113
Heat Pumps	485	9,147	18.8	1,574	521	153	10,416
Individual Air Conditioners	799	14,276	17.9	1,642	544	159	11,793
District Chilled Water	50	2,750	55.4	571	189	55	3,224
Central Chillers	130	12,909	99.7	2,723	902	264	17,041
Packaged Air Conditioning							
Units	1,953	36,527	18.7	6,024	1,995	585	43,059
Swamp Coolers	136	2,219	16.3	308	102	30	2,238
Other	49	1,312	26.7	247	82	24	1,580
Main Equipment Replaced Since 1995 (more than one may apply)							
Heating	984	13,220	13.4	1,880	623	182	13,421
Cooling	1,085	17,390	16.0	2,609	864	253	18,381
Lighting Equipment Types (more than one may apply)							
Incandescent	2,193	38,156	17.4	5,591	1,852	543	39,345
Standard Fluorescent	3,778	60,344	16.0	8,872	2,939	861	62,616
Compact Fluorescent	607	20,666	34.1	3,613	1,197	351	24,269
High Intensity Discharge	430	19,223	44.8	3,088	1,023	300	19,743
Halogen	572	17,926	31.3	3,014	998	293	20,656
Other	58	1,004	17.5	179	59	17	1,235
Water Heating Equipment							
Centralized System	2,472	35,579	14.4	5,164	1,710	501	38,010
Distributed System	566	10,899	19.3	1,610	533	156	11,383
Combination of Centralized and Distributed System	200	9,637	48.1	1,811	600	176	11,481
Commercial Refrigeration Equipment (more than one may apply)							
Any Equipment	950	25,652	27.0	4,997	1,655	485	34,282
Walk-In Units	658	19,713	29.9	4,186	1,386	406	28,489
Cases or Cabinets	820	22,001	26.8	4,370	1,448	424	30,056
None	3,445	40,064	11.6	4,355	1,442	423	32,142

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	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)	
Personal Computers							
None	1,355	7,961	5.9	584	193	57	4,762
1 to 4	1,636	13,853	8.5	1,678	556	163	13,009
5 to 9	542	6,528	12.0	927	307	90	6,947
10 to 19	403	7,514	18.7	992	329	96	7,747
20 to 49	247	8,087	32.7	1,153	382	112	8,162
50 to 99	105	5,867	55.9	803	266	78	5,601
100 to 249	71	6,818	96.0	1,240	411	120	7,675
250 or More	36	9,088	252.4	1,974	654	192	12,521
Photocopiers							
None	2,564	20,009	7.8	2,242	743	218	17,615
One	1,114	12,928	11.6	1,741	577	169	12,840
2 to 4	540	15,620	28.9	2,059	682	200	14,526
5 to 9	102	5,384	52.6	857	284	83	5,626
10 or More	75	11,774	156.7	2,453	813	238	15,816
Other Electronic Equipment (more than one may apply)							
Laser Printers	1,949	46,567	23.9	7,396	2,450	718	51,039
FAX Machines	2,807	54,764	19.5	8,505	2,817	826	59,661
Medical Diagnostic Equipment	86	2,493	29.1	637	211	62	3,775
Annual Consumption (kilowatthours)							
10,000 or Less	747	3,216	4.3	38	13	4	426
10,001 to 50,000	1,578	9,239	5.9	418	138	41	3,856
50,001 to 100,000	743	7,001	9.4	560	185	54	4,920
100,001 to 500,000	1,042	16,811	16.1	2,408	798	234	18,923
500,001 to 1,000,000	141	6,966	49.4	1,024	339	99	7,526
1,000,001 to 5,000,000	125	13,661	109.2	2,650	878	257	17,233
Over 5,000,000	19	8,823	475.8	2,254	747	219	13,542
Provider of Purchased Electricity (more than one may apply)							
Local Utility	4,224	62,043	14.7	8,687	2,877	843	61,536
Some Other Provider	140	3,101	22.1	525	174	51	4,024

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

Notes: * 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 the end use, not consumption for a particular fuel for a particular end use. * Due to rounding, data may not sum to totals. Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table C10. Electricity Consumption and Expenditure Intensities, 1999

	Electricity Consumption						Electricity Expenditures		
	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			
All Buildings	207	13.8	11.1	3.5	7.8	16.9	15.1	1.01	0.073
Building Floorspace (Square Feet)									
1,001 to 5,000	56	19.4	11.0	4.1	8.6	22.0	4.7	1.63	0.084
5,001 to 10,000	80	10.7	7.6	2.3	6.5	13.2	6.9	0.93	0.086
10,001 to 25,000	158	10.0	9.5	3.1	6.3	13.3	12.6	0.80	0.080
25,001 to 50,000	430	11.9	11.8	3.6	8.3	16.1	32.4	0.89	0.075
50,001 to 100,000	1,009	14.4	11.3	4.9	9.9	18.9	69.9	1.00	0.069
100,001 to 200,000	2,234	16.0	14.9	6.0	12.6	22.2	144.7	1.04	0.065
200,001 to 500,000	4,349	14.7	11.3	5.1	10.0	20.4	280.4	0.95	0.064
Over 500,000	15,332	16.5	12.6	8.9	13.6	20.6	1,003.0	1.08	0.065
Principal Building Activity									
Education	230	8.7	8.5	4.1	6.6	9.3	17.8	0.67	0.077
Food Sales	279	48.7	49.5	39.2	58.9	122.1	19.4	3.38	0.069
Food Service	182	34.2	15.7	13.9	28.7	57.3	14.6	2.75	0.080
Health Care	535	23.3	10.9	5.8	11.3	15.5	33.6	1.46	0.063
Inpatient	4,556	27.1	15.1	15.5	21.5	29.3	265.8	1.58	0.058
Outpatient	151	16.7	6.1	5.4	9.7	15.0	11.4	1.25	0.075
Lodging	375	12.7	24.4	7.5	12.6	17.3	27.9	0.94	0.074
Mercantile	229	14.7	13.4	4.3	8.9	16.8	17.8	1.14	0.078
Retail (Other Than Mall)	121	13.6	13.9	4.1	8.0	15.3	9.7	1.08	0.080
Enclosed and Strip Malls	660	15.6	13.1	5.9	14.5	26.7	50.1	1.19	0.076
Office	304	18.7	7.8	6.0	11.7	17.9	21.2	1.30	0.070
Public Assembly	187	12.9	17.8	3.2	6.8	11.6	13.3	0.92	0.071
Public Order and Safety	184	11.5	7.0	1.8	4.1	9.6	12.5	0.78	0.068
Religious Worship	40	3.6	7.4	1.1	2.5	4.2	3.4	0.31	0.085
Service	86	12.1	8.9	3.3	6.1	11.9	6.6	0.93	0.077
Warehouse and Storage	130	6.5	10.5	1.3	3.0	7.0	9.7	0.49	0.075
Other	302	24.4	20.4	3.3	13.8	22.0	21.0	1.69	0.069
Vacant	25	2.7	Q	0.3	0.9	4.7	2.2	0.24	0.087
Year Constructed									
1919 or Before	73	7.2	6.8	2.1	4.2	9.6	6.0	0.58	0.081
1920 to 1945	112	8.6	9.1	2.0	5.0	11.3	8.7	0.66	0.077
1946 to 1959	127	10.3	9.2	2.3	5.8	12.6	9.8	0.79	0.077
1960 to 1969	218	12.8	10.6	3.9	9.3	20.9	16.3	0.96	0.075
1970 to 1979	240	15.5	11.5	4.3	9.1	19.9	17.7	1.15	0.074
1980 to 1989	283	16.4	11.2	4.9	11.2	21.0	20.2	1.17	0.071
1990 to 1999	293	17.8	14.4	3.7	8.6	21.8	20.3	1.24	0.069
Census Region and Division									
Northeast	249	13.3	11.1	2.5	6.5	14.8	23.7	1.26	0.095
New England	203	10.7	10.0	2.6	6.9	11.6	19.9	1.05	0.098
Middle Atlantic	268	14.4	11.5	2.5	6.5	16.6	25.3	1.36	0.094
Midwest	174	11.8	10.6	2.5	5.6	12.1	11.6	0.79	0.067
East North Central	172	11.5	10.8	2.6	5.9	11.6	12.1	0.80	0.070
West North Central	178	12.5	10.3	2.1	4.8	13.0	10.8	0.76	0.061
South	216	15.8	12.5	4.1	9.7	22.1	13.8	1.01	0.064
South Atlantic	253	16.6	12.8	3.7	9.1	19.6	16.8	1.11	0.067
East South Central	207	15.4	13.4	5.0	11.9	24.1	12.6	0.94	0.061
West South Central	179	15.0	11.6	3.3	8.7	24.1	10.9	0.91	0.061
West	198	13.2	9.5	3.9	7.7	16.4	15.8	1.06	0.080
Mountain	187	12.0	9.9	2.8	6.9	16.1	12.2	0.78	0.065
Pacific	203	13.8	9.4	4.1	8.1	16.4	17.3	1.17	0.085

Table C10. Electricity Consumption and Expenditure Intensities, 1999

	Electricity Consumption						Electricity Expenditures		
	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			
Climate Zone: 45-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	132	11.2	11.0	3.0	6.2	13.4	9.2	0.78	0.070
5,500-7,000 HDD	213	11.8	10.7	2.5	5.7	13.0	16.4	0.91	0.077
4,000-5,499 HDD	225	14.7	10.5	3.2	7.2	15.8	16.7	1.09	0.074
Fewer than 4,000 HDD	226	15.2	11.5	4.6	9.3	20.4	16.7	1.12	0.074
2,000 CDD or More and --									
Fewer than 4,000 HDD	196	15.0	12.0	3.3	9.8	22.1	13.3	1.02	0.068
Workers (main shift)									
Fewer than 5	46	7.7	23.2	2.0	4.8	12.3	3.8	0.63	0.082
5 to 9	79	10.1	12.1	4.2	8.5	14.7	6.8	0.87	0.086
10 to 19	150	12.8	11.9	5.7	9.9	20.9	12.4	1.05	0.082
20 to 49	305	13.7	10.5	6.4	13.1	24.5	22.7	1.02	0.075
50 to 99	703	13.8	10.7	7.0	13.6	22.9	52.4	1.03	0.075
100 to 249	1,646	17.8	11.8	10.4	14.5	25.0	107.0	1.16	0.065
250 or More	5,712	21.2	8.8	13.8	20.7	29.4	372.1	1.38	0.065
Weekly Operating Hours									
39 or Fewer	26	3.8	5.7	0.8	2.4	5.1	2.2	0.32	0.086
40 to 48	99	8.7	7.3	2.7	6.4	13.0	7.7	0.67	0.078
49 to 60	174	12.0	8.2	4.0	7.7	14.7	13.2	0.91	0.076
61 to 84	266	13.9	10.7	6.2	11.6	23.7	20.1	1.06	0.076
85 to 167	388	19.9	16.5	11.6	29.6	56.7	28.6	1.47	0.074
Open Continuously	651	21.4	16.9	6.2	13.7	33.6	42.9	1.41	0.066
Ownership and Occupancy									
Nongovernment Owned									
Owner Occupied	191	13.8	11.0	3.3	7.6	16.9	14.1	1.03	0.074
Nonowner Occupied	193	14.1	11.4	3.3	7.6	16.2	14.0	1.03	0.073
Unoccupied	197	13.7	9.9	3.9	8.7	19.4	15.3	1.06	0.078
Unoccupied	Q	3.2	N	0.2	0.3	3.0	Q	0.27	0.085
Government Owned									
Federal	332	13.7	11.7	4.8	8.4	16.7	22.8	0.94	0.069
State	669	21.0	12.5	8.3	18.1	42.8	40.9	1.28	0.061
Local	568	13.9	13.2	6.4	12.9	17.9	38.5	0.94	0.068
Local	228	11.8	10.8	4.3	8.0	13.4	16.5	0.85	0.072
Vacancy Status									
Completely Vacant	Q	Q	N	0.2	0.9	4.7	Q	Q	Q
Mostly Vacant	16	1.7	Q	0.3	0.8	2.8	1.5	0.16	0.094
Partially Vacant	298	12.6	9.3	1.9	5.3	13.5	21.6	0.91	0.072
Not At All Vacant	197	14.4	11.7	3.9	8.4	18.3	14.4	1.06	0.073
Number of Establishments									
One	172	13.8	12.2	3.5	7.8	17.3	12.6	1.01	0.073
2 to 5	185	12.0	10.1	3.7	8.2	13.7	13.7	0.89	0.074
6 to 10	524	16.6	9.0	5.3	13.6	24.6	39.6	1.26	0.076
11 to 20	1,124	16.5	9.0	4.0	13.9	21.0	80.2	1.18	0.071
More than 20	2,746	15.4	9.0	3.2	10.5	18.9	200.1	1.12	0.073
Currently Unoccupied	Q	3.2	N	0.2	0.3	4.7	Q	0.26	0.083
Energy Sources (more than one may apply)									
Electricity	207	13.8	11.1	3.5	7.8	16.9	15.1	1.01	0.073
Natural Gas	241	14.1	11.4	3.8	8.2	16.6	17.4	1.02	0.072
Fuel Oil	522	17.0	11.6	2.7	5.7	12.6	35.0	1.14	0.067
District Heat	895	17.8	12.1	6.6	10.3	16.8	58.3	1.16	0.065
District Chilled Water	1,118	20.2	12.0	6.6	8.3	16.4	65.0	1.17	0.058
Propane	170	12.2	12.1	2.3	7.1	17.4	13.9	1.00	0.082
Other	217	14.3	9.7	4.2	8.0	24.5	16.5	1.08	0.076

Table C10. Electricity Consumption and Expenditure Intensities, 1999

	Electricity Consumption						Electricity Expenditures		
	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			
Space-Heating Energy Source									
Electricity	265	15.4	11.5	4.9	9.7	19.9	18.8	1.09	0.071
Electricity Main	268	17.1	11.9	6.2	13.6	25.2	19.2	1.23	0.072
Electricity Secondary	261	13.4	11.0	3.4	6.8	12.6	18.2	0.93	0.070
Other Excluding Electricity	174	12.7	10.6	3.1	6.5	14.2	13.1	0.95	0.075
Buildings without Heating	101	9.4	10.6	0.8	3.6	13.8	8.4	0.79	0.084
Primary Space-Heating Energy Source									
Electricity	268	17.1	11.9	6.2	13.6	25.2	19.2	1.23	0.072
Natural Gas	194	12.9	10.8	3.6	7.1	14.2	14.1	0.94	0.073
Fuel Oil	98	8.0	7.0	2.0	4.8	9.6	9.7	0.79	0.099
District Heat	1,173	17.8	12.9	6.1	9.5	16.3	75.2	1.14	0.064
Propane	75	10.0	11.0	1.5	5.7	16.7	7.0	0.93	0.093
Other	Q	Q	Q	0.8	1.6	4.8	Q	Q	Q
Cooling Energy Source									
Electricity	239	14.9	11.3	4.3	9.3	19.0	17.5	1.09	0.073
Other Excluding Electricity	483	18.0	11.5	8.9	14.1	35.5	32.6	1.22	0.068
Buildings without Cooling	36	4.1	6.7	0.8	2.5	5.0	3.1	0.36	0.087
Water-Heating Energy Source									
Electricity	245	15.6	11.3	5.0	11.1	22.4	17.8	1.14	0.073
Other Excluding Electricity	269	14.3	11.4	3.8	9.3	20.1	19.7	1.04	0.073
Buildings without Water Heating	64	7.8	8.9	1.4	3.9	8.3	4.8	0.58	0.075
Cooking Energy Source									
Electricity	624	19.9	14.9	8.5	19.9	57.3	41.7	1.33	0.067
Other Excluding Electricity	400	15.3	12.7	5.3	13.8	26.8	30.0	1.15	0.075
Buildings without Cooking	132	11.4	9.3	3.0	6.5	14.1	10.0	0.87	0.076
Energy End Uses (more than one may apply)									
Buildings with Space Heating	217	14.1	11.1	3.7	8.2	17.2	15.8	1.03	0.073
Buildings with Cooling	247	15.0	11.4	4.4	9.6	19.5	17.9	1.09	0.073
Buildings with Water Heating	257	14.9	11.4	4.5	9.9	21.0	18.8	1.08	0.073
Buildings with Cooking	514	17.9	13.9	7.2	15.8	39.2	36.0	1.25	0.070
Buildings with Manufacturing	288	13.9	10.0	3.2	7.2	13.4	20.2	0.98	0.070
Buildings with Electricity Generation	1,429	20.6	13.0	7.3	12.6	29.3	90.4	1.31	0.063
Percent of Floorspace Heated									
Not Heated	101	9.4	10.6	0.8	3.6	13.8	8.4	0.79	0.084
1 to 50	98	7.4	10.7	1.9	4.1	8.5	8.0	0.60	0.081
51 to 99	261	15.2	12.5	3.5	8.8	23.8	18.2	1.06	0.070
100	231	15.0	10.9	4.3	8.9	18.4	16.8	1.09	0.073
Percent of Floorspace Cooled									
Not Cooled	36	4.1	6.7	0.8	2.5	5.0	3.1	0.36	0.087
1 to 50	126	7.6	9.0	2.4	5.3	10.0	10.2	0.62	0.081
51 to 99	391	17.3	12.3	5.0	12.5	25.2	26.8	1.19	0.069
100	254	18.5	11.6	5.9	12.8	24.1	18.6	1.35	0.073
Percent Lit When Open									
Zero	Q	Q	Q	0.8	3.5	8.4	Q	Q	Q
1 to 50	78	7.1	13.3	1.9	4.0	10.8	6.5	0.59	0.083
51 to 99	240	14.3	10.3	4.2	8.7	17.7	17.6	1.04	0.073
100	259	15.9	11.3	4.8	9.4	20.9	18.6	1.14	0.072
Building Never Open/ Electricity Not Used	20	2.8	Q	0.2	0.6	2.4	1.6	0.22	0.079

Table C10. Electricity Consumption and Expenditure Intensities, 1999

	Electricity Consumption						Electricity Expenditures		
	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			
Percent Lit When Closed									
Zero	79	8.3	7.9	2.0	4.9	10.4	6.5	0.68	0.082
1 to 50	254	13.8	10.2	5.1	10.9	22.1	18.8	1.03	0.074
51 to 100	374	24.9	17.3	10.6	22.5	44.0	26.9	1.79	0.072
Building Never Closed/ Electricity Not Used	651	21.4	16.9	6.2	13.7	33.6	42.9	1.41	0.066
Heating Equipment (more than one may apply)									
Heat Pumps	307	16.9	12.0	7.3	13.7	24.7	20.8	1.15	0.068
Furnaces	95	9.6	8.8	2.7	5.6	12.8	7.3	0.74	0.077
Individual Space Heaters	243	12.4	11.2	2.6	5.7	12.9	17.0	0.87	0.070
District Heat	1,034	17.9	12.2	6.4	9.3	17.5	67.0	1.16	0.065
Boilers	461	13.7	11.0	3.5	7.2	12.6	32.5	0.97	0.070
Packaged Heating Units	320	16.7	13.4	5.7	11.7	24.1	23.1	1.21	0.072
Other	364	16.5	9.6	3.2	7.2	17.4	23.8	1.08	0.066
Cooling Equipment (more than one may apply)									
Residential-Type Central									
Air Conditioners	149	12.1	9.9	3.7	7.2	15.4	10.5	0.85	0.071
Heat Pumps	315	16.7	11.3	7.8	13.6	24.7	21.5	1.14	0.068
Individual Air Conditioners	200	11.2	9.6	3.5	6.9	13.0	14.8	0.83	0.074
District Chilled Water	1,118	20.2	12.0	6.6	8.3	16.4	65.0	1.17	0.058
Central Chillers	2,041	20.5	12.2	8.6	16.0	29.8	131.6	1.32	0.064
Packaged Air Conditioning									
Units	300	16.0	12.1	5.3	11.2	23.6	22.1	1.18	0.074
Swamp Coolers	220	13.5	12.3	2.6	7.7	22.5	16.5	1.01	0.075
Other	487	18.2	13.0	3.9	8.1	16.7	32.1	1.20	0.066
Main Equipment Replaced Since 1995 (more than one may apply)									
Heating	185	13.8	10.8	4.2	8.5	18.6	13.6	1.02	0.074
Cooling	233	14.6	10.9	4.7	9.9	21.2	16.9	1.06	0.073
Lighting Equipment Types (more than one may apply)									
Incandescent	248	14.2	10.9	3.5	8.4	16.9	17.9	1.03	0.072
Standard Fluorescent	228	14.3	11.1	3.9	8.4	18.0	16.6	1.04	0.073
Compact Fluorescent	578	17.0	11.7	5.7	11.4	20.7	40.0	1.17	0.069
High Intensity Discharge	698	15.6	13.8	3.9	8.6	18.8	46.0	1.03	0.066
Halogen	511	16.3	11.4	5.0	10.8	21.6	36.1	1.15	0.071
Other	303	17.4	12.5	7.1	11.2	32.2	21.5	1.23	0.071
Water Heating Equipment									
Centralized System	203	14.1	11.1	4.2	9.7	20.9	15.4	1.07	0.076
Distributed System	276	14.3	10.9	4.6	9.7	18.4	20.1	1.04	0.073
Combination of Centralized and Distributed System	878	18.2	12.6	6.3	16.1	34.9	57.3	1.19	0.065
Commercial Refrigeration Equipment (more than one may apply)									
Any Equipment	511	18.9	14.5	10.0	21.2	46.3	36.1	1.34	0.071
Walk-In Units	617	20.6	15.6	13.8	32.1	61.3	43.3	1.45	0.070
Cases or Cabinets	517	19.3	14.4	9.7	21.2	47.6	36.7	1.37	0.071
None	123	10.6	8.8	2.7	5.9	12.9	9.3	0.80	0.076

Table C10. Electricity Consumption and Expenditure Intensities, 1999

	Electricity Consumption						Electricity Expenditures		
	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			
Personal Computers									
None	42	7.1	12.1	1.3	4.1	11.6	3.5	0.60	0.084
1 to 4	100	11.8	12.8	3.8	7.0	15.5	8.0	0.94	0.080
5 to 9	166	13.8	12.0	5.6	12.0	23.6	12.8	1.06	0.077
10 to 19	239	12.8	10.5	6.9	12.6	20.9	19.2	1.03	0.080
20 to 49	453	13.8	11.6	6.6	11.9	22.1	33.0	1.01	0.073
50 to 99	742	13.3	10.7	6.2	11.0	16.1	53.3	0.95	0.072
100 to 249	1,694	17.7	12.6	8.7	15.5	25.0	108.0	1.13	0.064
250 or More	5,321	21.1	9.1	12.2	19.8	29.2	347.7	1.38	0.065
Photocopiers									
None	85	10.9	11.6	2.3	5.9	15.6	6.9	0.88	0.081
One	152	13.1	13.0	4.8	8.9	17.9	11.5	0.99	0.076
2 to 4	370	12.8	11.9	5.0	9.9	16.7	26.9	0.93	0.073
5 to 9	813	15.5	10.1	7.6	10.6	17.6	54.9	1.05	0.068
10 or More	3,169	20.2	9.5	11.6	18.5	24.6	210.4	1.34	0.066
Other Electronic Equipment (more than one may apply)									
Laser Printers	368	15.4	10.7	5.0	10.0	18.4	26.2	1.10	0.071
FAX Machines	294	15.1	11.1	4.8	9.9	19.2	21.3	1.09	0.072
Medical Diagnostic Equipment	721	24.8	11.0	5.4	9.7	15.0	44.1	1.51	0.061
Annual Consumption (kilowatthours)									
10,000 or Less	5	1.1	2.1	0.6	1.4	3.1	0.6	0.13	0.115
10,001 to 50,000	26	4.4	4.3	3.4	5.7	9.7	2.4	0.42	0.095
50,001 to 100,000	73	7.8	7.3	6.5	10.6	18.8	6.6	0.70	0.091
100,001 to 500,000	224	13.9	10.9	10.3	19.9	42.8	18.2	1.13	0.081
500,001 to 1,000,000	705	14.3	12.3	11.8	18.6	31.7	53.4	1.08	0.076
1,000,001 to 5,000,000	2,057	18.8	13.9	14.9	22.4	33.2	137.8	1.26	0.067
Over 5,000,000	11,802	24.8	14.6	17.6	28.2	43.0	730.3	1.53	0.062
Provider of Purchased Electricity (more than one may apply)									
Local Utility	200	13.6	10.9	3.4	7.8	16.7	14.6	0.99	0.073
Some Other Provider	363	16.4	13.4	2.4	7.8	15.0	28.7	1.30	0.079

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

N=No responding cases in sample.

Notes: * Statistics for the "energy end uses" represent consumption in buildings that have the end use, not consumption for a particular fuel for a particular end use.

* Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table C11. Electricity Consumption and Conditional Energy Intensity by Census Region, 1999

	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	159	194	366	189	11,964	16,389	23,076	14,287	13.3	11.8	15.8	13.2
Building Floorspace (Square Feet)												
1,001 to 5,000	Q	21	55	24	820	1,664	2,411	1,385	25.7	12.5	23.0	17.6
5,001 to 10,000	10	17	33	22	1,246	1,951	2,862	1,661	8.3	8.9	11.6	13.2
10,001 to 25,000	18	22	50	19	1,732	2,830	4,187	2,094	10.2	7.6	11.9	9.2
25,001 to 50,000	15	17	48	29	1,407	1,754	3,345	2,668	10.5	9.5	14.5	10.8
50,001 to 100,000	20	31	55	38	1,748	2,403	3,450	2,434	11.3	13.1	16.1	15.6
100,001 to 200,000	19	35	54	24	1,461	2,279	2,858	1,648	13.1	15.2	18.9	14.7
200,001 to 500,000	18	25	40	17	1,348	1,988	2,238	1,216	13.4	12.5	18.0	13.7
Over 500,000	38	27	29	16	2,202	1,519	1,726	1,180	17.4	17.7	16.6	13.2
Principal Building Activity												
Education	14	17	25	19	1,714	2,250	2,348	2,338	8.2	7.6	10.7	8.2
Food Sales	Q	Q	22	Q	Q	Q	391	Q	Q	Q	55.4	Q
Food Service	Q	14	27	Q	Q	558	676	Q	Q	25.3	39.7	Q
Health Care	9	15	31	13	448	750	1,085	635	20.2	19.6	28.5	21.2
Inpatient	8	11	22	9	377	512	630	346	22.5	22.0	34.8	25.6
Outpatient	Q	Q	9	5	Q	Q	454	289	Q	Q	19.7	15.9
Lodging	6	10	25	16	484	940	1,595	1,501	12.3	11.1	15.5	10.9
Mercantile	27	28	65	33	1,885	2,591	4,080	1,842	14.2	11.0	15.8	17.9
Retail (Other Than Mall)	14	16	25	10	974	1,600	1,566	627	14.0	9.8	16.0	16.5
Enclosed and Strip Malls	13	13	40	23	912	991	2,513	1,215	14.3	13.0	15.8	18.6
Office	40	50	88	47	2,389	2,820	4,162	2,672	16.7	17.8	21.1	17.6
Public Assembly	14	13	21	8	882	1,132	1,471	856	15.5	11.5	14.3	9.7
Public Order and Safety	Q	2	4	Q	Q	216	286	Q	Q	10.0	14.9	Q
Religious Worship	1	2	6	3	440	923	1,146	896	2.2	2.6	5.3	3.2
Service	Q	10	19	5	Q	818	1,387	443	Q	11.7	13.8	11.5
Warehouse and Storage	13	17	25	10	1,666	2,587	3,774	1,852	7.7	6.5	6.6	5.4
Other	Q	Q	8	Q	Q	Q	301	Q	Q	Q	25.6	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed												
1919 or Before	7	Q	3	4	1,216	1,477	536	485	6.1	8.2	6.2	7.9
1920 to 1945	12	19	16	7	1,552	2,371	1,665	693	7.9	8.1	9.6	9.4
1946 to 1959	26	18	29	17	2,030	2,152	2,770	1,842	12.9	8.3	10.5	9.5
1960 to 1969	26	30	48	33	2,050	2,481	3,301	2,854	12.7	12.1	14.6	11.5
1970 to 1979	28	30	77	46	1,823	2,320	4,268	3,338	15.6	13.0	18.0	13.9
1980 to 1989	31	46	105	40	1,917	2,800	6,098	2,671	16.2	16.6	17.1	14.8
1990 to 1999	28	38	87	42	1,376	2,788	4,439	2,404	20.2	13.7	19.7	17.7
Climate Zone: 45-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	11	47	N	6	1,150	4,110	N	491	9.5	11.5	N	13.0
5,500-7,000 HDD	71	101	N	25	5,698	8,716	N	2,293	12.5	11.5	N	10.9
4,000-5,499 HDD	77	46	78	30	5,117	3,563	4,694	2,418	15.0	13.0	16.6	12.5
Fewer than 4,000 HDD	N	N	142	100	N	N	8,687	7,235	N	N	16.4	13.8
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	145	27	N	N	9,696	1,850	N	N	15.0	14.9
Workers (main shift)												
Fewer than 5	10	21	47	20	1,510	3,661	5,171	2,409	6.5	5.6	9.1	8.4
5 to 9	12	15	23	13	1,372	1,689	1,730	1,482	8.6	9.0	13.6	8.8
10 to 19	21	17	45	20	1,472	1,930	2,935	1,690	14.1	8.8	15.2	11.9
20 to 49	21	27	69	32	1,574	2,575	4,174	2,492	13.6	10.3	16.5	12.7
50 to 99	22	24	46	31	1,814	1,876	2,876	2,332	11.9	12.9	16.0	13.1
100 to 249	23	37	61	28	1,702	2,228	2,856	1,570	13.3	16.8	21.4	17.6
250 or More	51	53	74	46	2,519	2,430	3,335	2,312	20.1	21.8	22.3	20.0

Table C11. Electricity Consumption and Conditional Energy Intensity by Census Region, 1999

	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Weekly Operating Hours												
39 or Fewer	1	5	9	5	661	1,512	2,186	955	2.2	3.0	4.0	5.3
40 to 48	14	22	50	27	1,864	2,970	5,265	2,971	7.7	7.4	9.6	9.0
49 to 60	31	31	72	37	2,792	3,566	4,617	3,211	11.0	8.7	15.5	11.5
61 to 84	29	42	63	38	2,482	3,084	4,198	2,616	11.6	13.8	15.0	14.5
85 to 167	28	41	72	36	1,674	2,531	2,936	1,789	17.0	16.3	24.5	20.2
Open Continuously	55	53	100	46	2,491	2,725	3,876	2,743	22.1	19.3	25.7	16.9
Ownership and Occupancy												
Nongovernment Owned	126	160	301	155	9,398	13,529	19,340	11,372	13.4	11.9	15.6	13.6
Owner Occupied	95	125	217	93	7,124	9,931	13,151	7,300	13.4	12.5	16.5	12.7
Nonowner Occupied	30	35	83	62	2,235	3,398	5,818	3,990	13.6	10.4	14.3	15.5
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	33	34	64	34	2,566	2,860	3,736	2,914	12.9	11.8	17.2	11.7
Federal	Q	Q	14	9	Q	318	549	534	Q	20.9	25.6	16.8
State	10	12	16	10	683	956	915	828	14.0	12.6	17.1	11.8
Local	17	15	34	15	1,572	1,586	2,273	1,552	11.0	9.4	15.2	10.0
Vacancy Status												
Completely Vacant	N	Q	Q	Q	N	Q	Q	Q	N	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	38	42	73	37	2,662	3,892	5,428	3,111	14.1	10.8	13.4	12.0
Not At All Vacant	121	151	292	151	9,086	12,149	17,274	11,002	13.3	12.5	16.9	13.7
Number of Establishments												
One	100	130	239	123	7,520	11,211	14,584	9,524	13.3	11.6	16.4	12.9
2 to 5	21	35	45	25	2,047	2,900	3,420	2,075	10.1	12.1	13.0	12.2
6 to 10	6	6	27	20	494	571	1,440	1,063	12.9	11.3	18.7	18.4
11 to 20	11	9	24	10	Q	579	1,239	738	16.1	14.9	19.3	13.5
More than 20	21	13	29	10	1,159	864	2,000	786	18.0	15.5	14.7	13.3
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)												
Electricity	159	194	366	189	11,964	16,389	23,076	14,287	13.3	11.8	15.8	13.2
Natural Gas	103	159	241	140	7,305	13,506	14,199	10,486	14.1	11.7	17.0	13.3
Fuel Oil	63	48	83	32	5,406	2,423	3,749	1,699	11.7	19.8	22.2	18.7
District Heat	36	26	26	17	1,898	1,521	1,265	1,207	18.8	17.4	20.2	14.4
District Chilled Water	9	16	18	12	326	746	939	739	29.0	21.9	18.9	16.1
Propane	22	15	31	9	1,706	1,405	2,389	790	12.9	10.6	12.9	11.5
Other	6	8	12	8	580	606	579	557	10.0	12.4	20.5	14.2
Space-Heating Energy Source												
Electricity	74	94	238	93	4,625	6,429	13,862	7,375	16.0	14.7	17.1	12.6
Electricity Main	30	45	165	62	1,645	2,355	9,259	4,368	18.5	19.1	17.8	14.1
Electricity Secondary	44	49	72	31	2,980	4,074	4,603	3,007	14.6	12.1	15.7	10.3
Other Excluding Electricity	84	98	104	84	7,034	9,486	6,736	6,017	11.9	10.4	15.4	13.9
Buildings without Heating	Q	Q	24	13	Q	Q	2,478	894	Q	Q	9.6	14.2
Primary Space-Heating Energy Source												
Electricity	30	45	165	62	1,645	2,355	9,259	4,368	18.5	19.1	17.8	14.1
Natural Gas	64	120	142	96	4,913	11,348	8,815	7,624	13.1	10.6	16.1	12.5
Fuel Oil	20	Q	8	Q	2,795	Q	718	Q	7.2	Q	10.5	Q
District Heat	32	24	19	15	1,709	1,411	904	1,053	18.8	16.9	20.9	14.5
Propane	Q	2	7	Q	Q	626	819	Q	Q	3.7	8.0	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

Table C11. Electricity Consumption and Conditional Energy Intensity by Census Region, 1999

	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Cooling Energy Source												
Electricity	145	170	350	160	9,766	13,474	20,908	11,396	14.9	12.6	16.7	14.1
Other Excluding Electricity	8	17	11	16	545	897	640	846	15.5	19.1	17.1	19.2
Buildings without Cooling	5	7	5	13	1,653	2,018	1,527	2,044	3.1	3.6	3.1	6.2
Water-Heating Energy Source												
Electricity	68	66	181	63	4,485	4,633	10,480	4,574	15.2	14.2	17.3	13.7
Other Excluding Electricity	83	109	149	114	6,092	9,069	8,534	8,248	13.7	12.0	17.5	13.8
Buildings without Water Heating	7	20	35	13	1,387	2,687	4,062	1,465	5.3	7.4	8.5	8.6
Cooking Energy Source												
Electricity	48	56	126	44	2,680	3,335	5,166	2,551	17.9	16.7	24.3	17.1
Other Excluding Electricity	39	36	62	31	2,565	2,706	3,403	2,274	15.2	13.2	18.3	13.5
Buildings without Cooking	72	103	178	115	6,719	10,347	14,507	9,462	10.7	9.9	12.2	12.1
Energy End Uses (more than one may apply)												
Buildings with Space Heating	158	193	342	176	11,659	15,916	20,598	13,392	13.6	12.1	16.6	13.2
Buildings with Cooling	154	187	361	176	10,311	14,371	21,549	12,243	14.9	13.0	16.7	14.4
Buildings with Water Heating	152	174	331	176	10,577	13,702	19,014	12,822	14.3	12.7	17.4	13.8
Buildings with Cooking	87	91	188	74	5,245	6,042	8,569	4,825	16.6	15.1	21.9	15.4
Buildings with Manufacturing	8	15	13	8	568	818	1,035	706	14.2	18.0	12.6	11.1
Buildings with Electricity Generation	51	57	99	37	3,108	2,782	4,062	1,930	16.6	20.5	24.5	19.3
Percent of Floorspace Heated												
Not Heated	Q	Q	24	13	Q	Q	2,478	894	Q	Q	9.6	14.2
1 to 50	7	9	20	21	1,053	1,571	2,538	2,403	6.4	5.7	7.7	8.6
51 to 99	24	27	77	35	1,679	2,323	4,335	2,399	14.6	11.8	17.7	14.4
100	127	156	245	121	8,927	12,022	13,725	8,590	14.2	13.0	17.9	14.1
Percent of Floorspace Cooled												
Not Cooled	5	7	5	13	1,653	2,018	1,527	2,044	3.1	3.6	3.1	6.2
1 to 50	29	35	40	24	3,914	5,068	4,618	3,246	7.4	6.9	8.6	7.4
51 to 99	55	71	113	54	3,196	4,741	5,801	3,229	17.3	15.0	19.4	16.9
100	70	81	209	98	3,202	4,562	11,130	5,768	21.7	17.7	18.7	17.0
Percent Lit When Open												
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	9	15	27	15	1,620	2,486	3,013	2,068	5.4	6.0	8.9	7.2
51 to 99	55	77	110	53	4,081	5,814	6,392	4,378	13.4	13.2	17.2	12.2
100	96	101	226	120	6,077	7,668	12,817	7,671	15.7	13.2	17.6	15.7
Building Never Open/ Electricity Not Used	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Percent Lit When Closed												
Zero	21	35	68	48	3,390	5,264	7,296	4,821	6.2	6.6	9.3	10.1
1 to 50	75	101	170	82	5,766	8,047	10,912	6,226	13.1	12.6	15.5	13.2
51 to 100	Q	5	29	12	Q	353	992	497	Q	15.4	28.8	24.1
Building Never Closed/ Electricity Not Used	55	53	100	46	2,491	2,725	3,876	2,743	22.1	19.3	25.7	16.9
Heating Equipment (more than one may apply)												
Heat Pumps	20	19	83	29	1,193	1,015	4,580	2,135	17.0	18.7	18.2	13.4
Furnaces	22	49	47	21	2,257	5,767	3,949	2,476	9.8	8.5	11.8	8.7
Individual Space Heaters	46	56	76	37	3,555	4,667	5,471	3,628	13.0	12.0	13.8	10.3
District Heat	35	25	22	16	1,876	1,514	1,022	1,121	18.8	16.8	21.7	14.6
Boilers	60	71	84	53	5,461	5,961	4,209	3,883	10.9	11.8	19.9	13.7
Packaged Heating Units	77	82	182	89	4,033	5,081	10,455	6,175	19.1	16.2	17.4	14.4
Other	11	16	27	12	769	1,113	1,391	800	14.6	14.8	19.5	15.3

Table C11. Electricity Consumption and Conditional Energy Intensity by Census Region, 1999

	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Cooling Equipment (more than one may apply)												
Residential-Type Central												
Air Conditioners	11	28	49	12	950	2,951	3,272	1,156	11.7	9.5	15.1	10.5
Heat Pumps	17	20	83	32	1,215	1,063	4,604	2,265	14.1	18.9	18.1	14.2
Individual Air Conditioners	43	35	60	21	3,897	3,724	4,526	2,130	11.0	9.5	13.3	9.8
District Chilled Water	9	16	18	12	326	746	939	739	29.0	21.9	18.9	16.1
Central Chillers	50	61	103	51	2,782	3,149	4,328	2,651	17.9	19.3	23.9	19.1
Packaged Air Conditioning												
Units	113	118	237	117	6,641	8,198	13,915	7,773	17.0	14.3	17.0	15.0
Swamp Coolers	Q	Q	6	21	Q	Q	339	1,624	Q	Q	16.3	12.9
Other	Q	Q	7	Q	Q	Q	343	Q	Q	Q	21.2	Q
Main Equipment Replaced Since 1995 (more than one may apply)												
Heating	24	39	82	38	1,829	3,244	5,080	3,068	13.0	12.0	16.1	12.3
Cooling	40	50	118	45	3,080	3,808	7,088	3,414	13.0	13.2	16.6	13.2
Lighting Equipment Types (more than one may apply)												
Incandescent	95	111	223	113	7,047	9,903	12,970	8,236	13.5	11.2	17.2	13.8
Standard Fluorescent	150	185	346	180	11,348	14,840	20,850	13,305	13.2	12.5	16.6	13.6
Compact Fluorescent	64	89	126	72	3,939	5,518	6,427	4,781	16.2	16.0	19.7	15.0
High Intensity Discharge	58	80	119	43	4,382	5,513	5,874	3,454	13.3	14.5	20.3	12.3
Halogen	62	69	103	59	3,625	4,405	5,847	4,049	17.0	15.6	17.7	14.6
Other	Q	Q	11	Q	Q	Q	441	Q	Q	Q	25.1	Q
Water Heating Equipment												
Centralized System	98	98	192	113	6,941	9,037	11,500	8,102	14.1	10.9	16.7	13.9
Distributed System	23	26	69	38	1,823	2,328	4,120	2,628	12.4	11.3	16.8	14.6
Combination of Centralized and Distributed System	31	50	69	26	1,813	2,336	3,395	2,093	17.1	21.3	20.4	12.2
Commercial Refrigeration Equipment (more than one may apply)												
Any Equipment	98	104	192	90	5,536	6,252	8,734	5,130	17.8	16.7	22.0	17.6
Walk-In Units	83	83	163	77	4,335	4,580	6,809	3,988	19.1	18.1	24.0	19.4
Cases or Cabinets	86	90	169	79	4,723	5,429	7,512	4,337	18.2	16.6	22.5	18.2
None	61	90	173	99	6,428	10,137	14,342	9,156	9.5	8.9	12.1	10.8
Personal Computers												
None	5	13	26	13	1,128	2,281	3,313	1,239	4.3	5.7	7.9	10.3
1 to 4	28	36	68	31	2,293	3,758	4,755	3,045	12.1	9.6	14.4	10.1
5 to 9	10	14	47	19	811	1,308	2,870	1,539	12.8	10.5	16.4	12.2
10 to 19	19	14	42	22	1,749	1,570	2,707	1,488	10.7	8.8	15.5	14.6
20 to 49	21	22	45	23	1,395	1,935	2,588	2,168	15.0	11.5	17.6	10.7
50 to 99	10	19	30	19	903	1,638	1,893	1,432	11.4	11.7	15.8	13.0
100 to 249	23	34	41	23	1,599	1,829	2,174	1,216	14.6	18.4	18.7	18.8
250 or More	43	42	66	40	2,085	2,069	2,776	2,158	20.5	20.4	23.9	18.7
Photocopiers												
None	27	43	96	52	3,300	4,813	7,635	4,261	8.3	8.8	12.6	12.1
One	24	31	79	35	1,633	3,164	5,040	3,091	14.7	9.8	15.7	11.2
2 to 4	35	43	82	39	2,976	4,227	5,109	3,308	11.7	10.3	16.1	11.8
5 to 9	13	27	26	18	986	1,577	1,586	1,234	13.2	17.1	16.2	14.3
10 or More	60	50	82	46	3,069	2,607	3,705	2,393	19.5	19.2	22.2	19.3

Table C11. Electricity Consumption and Conditional Energy Intensity by Census Region, 1999

	Total Electricity Consumption (billion kWh)				Total Floorspace of Buildings Using Electricity (million square feet)				Electricity Energy Intensity (kWh/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Other Electronic Equipment (more than one may apply)												
Laser Printers	133	154	281	149	9,112	11,161	15,628	10,666	14.6	13.8	18.0	14.0
FAX Machines	151	177	327	170	10,496	13,369	18,804	12,095	14.4	13.3	17.4	14.1
Medical Diagnostic Equipment	8	13	28	13	365	586	953	588	21.1	22.8	29.5	21.4
Annual Consumption (kilowatthours)												
10,000 or Less	1	1	1	1	519	974	1,260	463	1.2	1.1	1.0	1.6
10,001 to 50,000	5	11	14	10	1,425	2,838	2,908	2,068	3.5	3.8	5.0	5.1
50,001 to 100,000	8	12	23	12	1,243	1,659	2,480	1,619	6.4	7.2	9.1	7.3
100,001 to 500,000	39	41	104	49	2,688	3,831	6,394	3,897	14.5	10.7	16.3	12.7
500,001 to 1,000,000	16	21	36	26	1,272	1,831	2,158	1,705	12.9	11.5	16.8	15.1
1,000,001 to 5,000,000	36	53	112	56	2,395	3,211	5,091	2,964	15.2	16.5	21.9	19.0
Over 5,000,000	54	55	75	34	2,421	2,045	2,785	1,571	22.2	27.0	27.1	21.9
Provider of Purchased Electricity (more than one may apply)												
Local Utility	136	184	352	172	10,535	15,611	22,263	13,634	12.9	11.8	15.8	12.6
Some Other Provider	24	6	5	Q	1,388	445	597	672	17.0	13.9	7.8	24.6

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

N=No responding cases in sample.

Notes: * Statistics for the "energy end uses" represent consumption in buildings that have the end use, not consumption for a particular fuel for a particular end use. * Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table C12. Electricity Expenditures by Census Region, 1999

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars)							
					per kWh				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	15,133	12,933	23,275	15,083	0.10	0.07	0.06	0.08	1.26	0.79	1.01	1.06
Building Floorspace (Square Feet)												
1,001 to 5,000	Q	1,654	4,021	2,222	0.11	0.08	0.07	0.09	2.88	0.99	1.67	1.60
5,001 to 10,000	1,220	1,408	2,478	2,039	0.12	0.08	0.07	0.09	0.98	0.72	0.87	1.23
10,001 to 25,000	1,863	1,626	3,396	1,778	0.11	0.08	0.07	0.09	1.08	0.57	0.81	0.85
25,001 to 50,000	1,526	1,137	3,106	2,419	0.10	0.07	0.06	0.08	1.08	0.65	0.93	0.91
50,001 to 100,000	1,897	2,051	3,348	2,728	0.10	0.07	0.06	0.07	1.09	0.85	0.97	1.12
100,001 to 200,000	1,744	1,934	3,215	1,662	0.09	0.06	0.06	0.07	1.19	0.85	1.13	1.01
200,001 to 500,000	1,404	1,592	2,212	1,223	0.08	0.06	0.05	0.07	1.04	0.80	0.99	1.01
Over 500,000	3,116	1,530	1,498	1,011	0.08	0.06	0.05	0.06	1.41	1.01	0.87	0.86
Principal Building Activity												
Education	1,414	1,209	1,678	1,520	0.10	0.07	0.07	0.08	0.82	0.54	0.71	0.65
Food Sales	Q	Q	1,369	Q	Q	Q	0.06	Q	Q	Q	3.50	Q
Food Service	Q	1,102	1,768	Q	Q	0.08	0.07	Q	Q	1.98	2.62	Q
Health Care	716	870	1,735	946	0.08	0.06	0.06	0.07	1.60	1.16	1.60	1.49
Inpatient	648	612	1,111	577	0.08	0.05	0.05	0.07	1.72	1.20	1.76	1.67
Outpatient	Q	Q	624	369	Q	Q	0.07	0.08	Q	Q	1.37	1.28
Lodging	539	742	1,579	1,406	0.09	0.07	0.06	0.09	1.11	0.79	0.99	0.94
Mercantile	2,787	2,002	4,063	2,999	0.10	0.07	0.06	0.09	1.48	0.77	1.00	1.63
Retail (Other Than Mall)	1,519	1,136	1,610	902	0.11	0.07	0.06	0.09	1.56	0.71	1.03	1.44
Enclosed and Strip Malls	1,268	867	2,453	2,097	0.10	0.07	0.06	0.09	1.39	0.87	0.98	1.73
Office	3,681	3,091	5,493	3,418	0.09	0.06	0.06	0.07	1.54	1.10	1.32	1.28
Public Assembly	1,181	935	1,333	534	0.09	0.07	0.06	0.06	1.34	0.83	0.91	0.62
Public Order and Safety	Q	124	252	Q	Q	0.06	0.06	Q	Q	0.57	0.88	Q
Religious Worship	120	222	464	236	0.12	0.09	0.08	0.08	0.27	0.24	0.40	0.26
Service	Q	648	1,351	369	Q	0.07	0.07	0.07	Q	0.79	0.97	0.83
Warehouse and Storage	1,155	1,130	1,641	903	0.09	0.07	0.07	0.09	0.69	0.44	0.43	0.49
Other	Q	Q	458	Q	Q	Q	0.06	Q	Q	Q	1.52	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed												
1919 or Before	801	870	252	247	0.11	0.07	0.08	0.06	0.66	0.59	0.47	0.51
1920 to 1945	1,194	1,422	1,063	495	0.10	0.07	0.07	0.08	0.77	0.60	0.64	0.71
1946 to 1959	2,362	1,225	2,028	1,374	0.09	0.07	0.07	0.08	1.16	0.57	0.73	0.75
1960 to 1969	2,646	1,887	3,087	2,630	0.10	0.06	0.06	0.08	1.29	0.76	0.94	0.92
1970 to 1979	2,575	2,032	4,873	3,980	0.09	0.07	0.06	0.09	1.41	0.88	1.14	1.19
1980 to 1989	3,121	2,988	6,469	3,200	0.10	0.06	0.06	0.08	1.63	1.07	1.06	1.20
1990 to 1999	2,434	2,509	5,504	3,157	0.09	0.07	0.06	0.07	1.77	0.90	1.24	1.31
Climate Zone: 45-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	1,279	2,835	N	390	0.12	0.06	N	0.06	1.11	0.69	N	0.80
5,500-7,000 HDD	6,756	7,063	N	1,343	0.09	0.07	N	0.05	1.19	0.81	N	0.59
4,000-5,499 HDD	7,098	3,035	5,294	1,738	0.09	0.07	0.07	0.06	1.39	0.85	1.13	0.72
Fewer than 4,000 HDD	N	N	8,666	9,180	N	N	0.06	0.09	N	N	1.00	1.27
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	9,314	2,431	N	N	0.06	0.09	N	N	0.96	1.31
Workers (main shift)												
Fewer than 5	1,087	1,669	3,490	1,799	0.11	0.08	0.07	0.09	0.72	0.46	0.68	0.75
5 to 9	1,392	1,166	1,692	1,211	0.12	0.08	0.07	0.09	1.01	0.69	0.98	0.82
10 to 19	2,131	1,343	2,998	1,967	0.10	0.08	0.07	0.10	1.45	0.70	1.02	1.16
20 to 49	2,275	1,827	4,571	2,395	0.11	0.07	0.07	0.08	1.45	0.71	1.10	0.96
50 to 99	2,112	1,571	2,873	2,566	0.10	0.06	0.06	0.08	1.16	0.84	1.00	1.10
100 to 249	2,122	2,157	3,511	1,893	0.09	0.06	0.06	0.07	1.25	0.97	1.23	1.21
250 or More	4,014	3,199	4,138	3,252	0.08	0.06	0.06	0.07	1.59	1.32	1.24	1.41

Table C12. Electricity Expenditures by Census Region, 1999

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars)							
					per kWh				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Weekly Operating Hours												
39 or Fewer	168	399	722	429	0.12	0.09	0.08	0.08	0.25	0.26	0.33	0.45
40 to 48	1,552	1,550	3,550	2,147	0.11	0.07	0.07	0.08	0.83	0.52	0.67	0.72
49 to 60	2,967	2,163	4,728	3,122	0.10	0.07	0.07	0.08	1.06	0.61	1.02	0.97
61 to 84	2,963	2,960	4,120	3,039	0.10	0.07	0.07	0.08	1.19	0.96	0.98	1.16
85 to 167	2,776	2,805	4,560	2,967	0.10	0.07	0.06	0.08	1.66	1.11	1.55	1.66
Open Continuously	4,707	3,058	5,595	3,379	0.09	0.06	0.06	0.07	1.89	1.12	1.44	1.23
Ownership and Occupancy												
Nongovernment Owned	12,285	10,867	19,314	12,619	0.10	0.07	0.06	0.08	1.31	0.80	1.00	1.11
Owner Occupied	9,271	8,196	13,615	7,458	0.10	0.07	0.06	0.08	1.30	0.83	1.04	1.02
Nonowner Occupied	3,010	2,628	5,594	5,126	0.10	0.07	0.07	0.08	1.35	0.77	0.96	1.28
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	2,848	2,066	3,960	2,463	0.09	0.06	0.06	0.07	1.11	0.72	1.06	0.85
Federal	Q	Q	807	468	Q	0.05	0.06	0.05	Q	1.12	1.47	0.88
State	804	696	887	801	0.08	0.06	0.06	0.08	1.18	0.73	0.97	0.97
Local	1,481	1,014	2,266	1,194	0.09	0.07	0.07	0.08	0.94	0.64	1.00	0.77
Vacancy Status												
Completely Vacant	N	Q	Q	Q	N	Q	Q	Q	N	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	3,279	2,880	4,544	3,058	0.09	0.07	0.06	0.08	1.23	0.74	0.84	0.98
Not At All Vacant	11,821	9,979	18,640	11,957	0.10	0.07	0.06	0.08	1.30	0.82	1.08	1.09
Number of Establishments												
One	9,633	8,687	15,227	9,628	0.10	0.07	0.06	0.08	1.28	0.77	1.04	1.01
2 to 5	1,940	2,316	2,980	2,062	0.09	0.07	0.07	0.08	0.95	0.80	0.87	0.99
6 to 10	623	448	1,662	1,759	0.10	0.07	0.06	0.09	1.26	0.78	1.15	1.66
11 to 20	1,041	544	1,474	787	0.09	0.06	0.06	0.08	1.48	0.94	1.19	1.07
More than 20	1,892	881	1,827	803	0.09	0.07	0.06	0.08	1.63	1.02	0.91	1.02
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)												
Electricity	15,133	12,933	23,275	15,083	0.10	0.07	0.06	0.08	1.26	0.79	1.01	1.06
Natural Gas	9,545	10,785	14,956	11,146	0.09	0.07	0.06	0.08	1.31	0.80	1.05	1.06
Fuel Oil	5,610	2,650	4,796	2,108	0.09	0.06	0.06	0.07	1.04	1.09	1.28	1.24
District Heat	2,980	1,476	1,319	1,066	0.08	0.06	0.05	0.06	1.57	0.97	1.04	0.88
District Chilled Water	653	856	894	821	0.07	0.05	0.05	0.07	2.00	1.15	0.95	1.11
Propane	2,334	1,063	2,004	885	0.11	0.07	0.06	0.10	1.37	0.76	0.84	1.12
Other	522	465	776	750	0.09	0.06	0.07	0.09	0.90	0.77	1.34	1.35
Space-Heating Energy Source												
Electricity	6,678	6,128	15,182	7,343	0.09	0.06	0.06	0.08	1.44	0.95	1.10	1.00
Electricity Main	2,841	2,905	10,772	5,104	0.09	0.06	0.07	0.08	1.73	1.23	1.16	1.17
Electricity Secondary	3,838	3,223	4,410	2,240	0.09	0.07	0.06	0.07	1.29	0.79	0.96	0.74
Other Excluding Electricity	8,329	6,694	6,443	6,366	0.10	0.07	0.06	0.08	1.18	0.71	0.96	1.06
Buildings without Heating	Q	Q	1,650	1,373	Q	Q	0.07	0.11	Q	Q	0.67	1.54
Primary Space-Heating Energy Source												
Electricity	2,841	2,905	10,772	5,104	0.09	0.06	0.07	0.08	1.73	1.23	1.16	1.17
Natural Gas	6,134	8,312	8,769	7,439	0.10	0.07	0.06	0.08	1.25	0.73	0.99	0.98
Fuel Oil	2,178	Q	613	Q	0.11	Q	0.08	Q	0.78	Q	0.85	Q
District Heat	2,655	1,329	940	860	0.08	0.06	0.05	0.06	1.55	0.94	1.04	0.82
Propane	Q	183	465	Q	Q	0.08	0.07	Q	Q	0.29	0.57	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

Table C12. Electricity Expenditures by Census Region, 1999

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars)							
					per kWh				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Cooling Energy Source												
Electricity	13,789	11,372	22,316	12,804	0.09	0.07	0.06	0.08	1.41	0.84	1.07	1.12
Other Excluding Electricity	782	1,021	570	1,191	0.09	0.06	0.05	0.07	1.43	1.14	0.89	1.41
Buildings without Cooling	562	540	Q	1,087	0.11	0.08	0.08	0.09	0.34	0.27	0.25	0.53
Water-Heating Energy Source												
Electricity	6,548	4,334	11,684	5,015	0.10	0.07	0.06	0.08	1.46	0.94	1.11	1.10
Other Excluding Electricity	7,755	7,323	9,164	9,051	0.09	0.07	0.06	0.08	1.27	0.81	1.07	1.10
Buildings without Water Heating	830	1,276	2,427	1,017	0.11	0.06	0.07	0.08	0.60	0.47	0.60	0.69
Cooking Energy Source												
Electricity	4,202	3,539	7,441	3,070	0.09	0.06	0.06	0.07	1.57	1.06	1.44	1.20
Other Excluding Electricity	3,581	2,415	4,011	2,614	0.09	0.07	0.06	0.09	1.40	0.89	1.18	1.15
Buildings without Cooking	7,350	6,978	11,823	9,399	0.10	0.07	0.07	0.08	1.09	0.67	0.82	0.99
Energy End Uses (more than one may apply)												
Buildings with Space Heating	15,007	12,822	21,625	13,709	0.09	0.07	0.06	0.08	1.29	0.81	1.05	1.02
Buildings with Cooling	14,572	12,393	22,886	13,995	0.09	0.07	0.06	0.08	1.41	0.86	1.06	1.14
Buildings with Water Heating	14,304	11,657	20,848	14,066	0.09	0.07	0.06	0.08	1.35	0.85	1.10	1.10
Buildings with Cooking	7,783	5,955	11,451	5,683	0.09	0.07	0.06	0.08	1.48	0.99	1.34	1.18
Buildings with Manufacturing	768	830	872	589	0.10	0.06	0.07	0.08	1.35	1.01	0.84	0.83
Buildings with Electricity Generation	4,238	3,195	5,583	2,494	0.08	0.06	0.06	0.07	1.36	1.15	1.37	1.29
Percent of Floorspace Heated												
Not Heated	Q	Q	1,650	1,373	Q	Q	0.07	0.11	Q	Q	0.67	1.54
1 to 50	662	673	1,349	1,848	0.10	0.08	0.07	0.09	0.63	0.43	0.53	0.77
51 to 99	2,291	1,821	4,695	2,577	0.09	0.07	0.06	0.07	1.36	0.78	1.08	1.07
100	12,054	10,327	15,581	9,284	0.10	0.07	0.06	0.08	1.35	0.86	1.14	1.08
Percent of Floorspace Cooled												
Not Cooled	562	540	Q	1,087	0.11	0.08	0.08	0.09	0.34	0.27	0.25	0.53
1 to 50	3,024	2,551	2,682	2,106	0.10	0.07	0.07	0.09	0.77	0.50	0.58	0.65
51 to 99	4,962	4,452	6,828	3,898	0.09	0.06	0.06	0.07	1.55	0.94	1.18	1.21
100	6,586	5,390	13,375	7,991	0.09	0.07	0.06	0.08	2.06	1.18	1.20	1.39
Percent Lit When Open												
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	997	1,163	1,784	1,451	0.11	0.08	0.07	0.10	0.62	0.47	0.59	0.70
51 to 99	5,314	4,988	6,914	4,358	0.10	0.06	0.06	0.08	1.30	0.86	1.08	1.00
100	8,806	6,712	14,331	9,215	0.09	0.07	0.06	0.08	1.45	0.88	1.12	1.20
Building Never Open/ Electricity Not Used	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Percent Lit When Closed												
Zero	2,372	2,714	4,756	4,192	0.11	0.08	0.07	0.09	0.70	0.52	0.65	0.87
1 to 50	7,373	6,813	11,058	6,551	0.10	0.07	0.07	0.08	1.28	0.85	1.01	1.05
51 to 100	Q	348	1,866	961	Q	0.06	0.07	0.08	Q	0.99	1.88	1.94
Building Never Closed/ Electricity Not Used	4,707	3,058	5,595	3,379	0.09	0.06	0.06	0.07	1.89	1.12	1.44	1.23
Heating Equipment (more than one may apply)												
Heat Pumps	1,558	1,034	5,363	2,288	0.08	0.05	0.06	0.08	1.31	1.02	1.17	1.07
Furnaces	2,158	3,822	3,159	1,583	0.10	0.08	0.07	0.07	0.96	0.66	0.80	0.64
Individual Space Heaters	4,085	3,528	4,802	2,695	0.09	0.06	0.06	0.07	1.15	0.76	0.88	0.74
District Heat	2,950	1,420	1,117	944	0.08	0.06	0.05	0.06	1.57	0.94	1.09	0.84
Boilers	5,532	4,520	5,001	3,795	0.09	0.06	0.06	0.07	1.01	0.76	1.19	0.98
Packaged Heating Units	6,980	5,377	11,406	7,307	0.09	0.07	0.06	0.08	1.73	1.06	1.09	1.18
Other	855	1,131	1,604	811	0.08	0.07	0.06	0.07	1.11	1.02	1.15	1.01

Table C12. Electricity Expenditures by Census Region, 1999

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars)							
					per kWh				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Cooling Equipment (more than one may apply)												
Residential-Type Central												
Air Conditioners	1,040	2,091	3,055	927	0.09	0.07	0.06	0.08	1.09	0.71	0.93	0.80
Heat Pumps	1,370	1,104	5,364	2,578	0.08	0.05	0.06	0.08	1.13	1.04	1.17	1.14
Individual Air Conditioners	3,902	2,439	3,821	1,632	0.09	0.07	0.06	0.08	1.00	0.66	0.84	0.77
District Chilled Water	653	856	894	821	0.07	0.05	0.05	0.07	2.00	1.15	0.95	1.11
Central Chillers	4,057	3,607	5,909	3,469	0.08	0.06	0.06	0.07	1.46	1.15	1.37	1.31
Packaged Air Conditioning												
Units	10,699	7,922	14,911	9,527	0.09	0.07	0.06	0.08	1.61	0.97	1.07	1.23
Swamp Coolers	Q	Q	351	1,567	Q	Q	0.06	0.08	Q	Q	1.04	0.97
Other	Q	Q	408	Q	Q	Q	0.06	Q	Q	Q	1.19	Q
Main Equipment Replaced Since 1995 (more than one may apply)												
Heating	2,384	2,561	5,280	3,197	0.10	0.07	0.06	0.08	1.30	0.79	1.04	1.04
Cooling	3,849	3,322	7,427	3,783	0.10	0.07	0.06	0.08	1.25	0.87	1.05	1.11
Lighting Equipment Types (more than one may apply)												
Incandescent	8,951	7,438	14,012	8,944	0.09	0.07	0.06	0.08	1.27	0.75	1.08	1.09
Standard Fluorescent	14,183	12,290	21,826	14,317	0.09	0.07	0.06	0.08	1.25	0.83	1.05	1.08
Compact Fluorescent	5,795	5,621	7,541	5,313	0.09	0.06	0.06	0.07	1.47	1.02	1.17	1.11
High Intensity Discharge	5,051	4,796	6,844	3,052	0.09	0.06	0.06	0.07	1.15	0.87	1.17	0.88
Halogen	5,585	4,336	6,375	4,360	0.09	0.06	0.06	0.07	1.54	0.98	1.09	1.08
Other	Q	Q	733	Q	Q	Q	0.07	Q	Q	Q	1.66	Q
Water Heating Equipment												
Centralized System	9,545	6,801	12,508	9,157	0.10	0.07	0.06	0.08	1.38	0.75	1.09	1.13
Distributed System	2,153	1,839	4,269	3,121	0.10	0.07	0.06	0.08	1.18	0.79	1.04	1.19
Combination of Centralized and Distributed System	2,606	3,017	4,071	1,788	0.08	0.06	0.06	0.07	1.44	1.29	1.20	0.85
Commercial Refrigeration Equipment (more than one may apply)												
Any Equipment	8,851	6,722	11,620	7,089	0.09	0.06	0.06	0.08	1.60	1.08	1.33	1.38
Walk-In Units	7,395	5,300	9,768	6,026	0.09	0.06	0.06	0.08	1.71	1.16	1.43	1.51
Cases or Cabinets	7,748	5,784	10,188	6,336	0.09	0.06	0.06	0.08	1.64	1.07	1.36	1.46
None	6,282	6,211	11,655	7,994	0.10	0.07	0.07	0.08	0.98	0.61	0.81	0.87
Personal Computers												
None	584	1,076	1,925	1,178	0.12	0.08	0.07	0.09	0.52	0.47	0.58	0.95
1 to 4	2,920	2,729	4,670	2,690	0.10	0.08	0.07	0.09	1.27	0.73	0.98	0.88
5 to 9	1,144	1,016	3,163	1,625	0.11	0.07	0.07	0.09	1.41	0.78	1.10	1.06
10 to 19	1,985	986	2,839	1,938	0.11	0.07	0.07	0.09	1.13	0.63	1.05	1.30
20 to 49	2,129	1,324	2,826	1,884	0.10	0.06	0.06	0.08	1.53	0.68	1.09	0.87
50 to 99	987	1,348	1,765	1,501	0.10	0.07	0.06	0.08	1.09	0.82	0.93	1.05
100 to 249	1,928	1,972	2,338	1,438	0.08	0.06	0.06	0.06	1.21	1.08	1.08	1.18
250 or More	3,458	2,484	3,750	2,829	0.08	0.06	0.06	0.07	1.66	1.20	1.35	1.31
Photocopiers												
None	3,042	3,208	6,676	4,689	0.11	0.08	0.07	0.09	0.92	0.67	0.87	1.10
One	2,444	2,280	5,250	2,867	0.10	0.07	0.07	0.08	1.50	0.72	1.04	0.93
2 to 4	3,525	2,843	5,158	3,000	0.10	0.07	0.06	0.08	1.18	0.67	1.01	0.91
5 to 9	1,097	1,646	1,532	1,351	0.08	0.06	0.06	0.08	1.11	1.04	0.97	1.09
10 or More	5,026	2,957	4,659	3,175	0.08	0.06	0.06	0.07	1.64	1.13	1.26	1.33

Table C12. Electricity Expenditures by Census Region, 1999

	Total Electricity Expenditures (million dollars)				Electricity Expenditures (dollars)							
					per kWh				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Other Electronic Equipment (more than one may apply)												
Laser Printers	12,301	9,809	17,415	11,514	0.09	0.06	0.06	0.08	1.35	0.88	1.11	1.08
FAX Machines	14,227	11,562	20,602	13,270	0.09	0.07	0.06	0.08	1.36	0.86	1.10	1.10
Medical Diagnostic Equipment	577	768	1,544	885	0.07	0.06	0.05	0.07	1.58	1.31	1.62	1.51
Annual Consumption (kilowatthours)												
10,000 or Less	92	124	124	85	0.15	0.12	0.10	0.12	0.18	0.13	0.10	0.18
10,001 to 50,000	640	932	1,271	1,013	0.13	0.09	0.09	0.10	0.45	0.33	0.44	0.49
50,001 to 100,000	960	1,082	1,762	1,116	0.12	0.09	0.08	0.09	0.77	0.65	0.71	0.69
100,001 to 500,000	4,285	3,014	7,103	4,521	0.11	0.07	0.07	0.09	1.59	0.79	1.11	1.16
500,001 to 1,000,000	1,564	1,472	2,395	2,094	0.10	0.07	0.07	0.08	1.23	0.80	1.11	1.23
1,000,001 to 5,000,000	3,396	3,270	6,639	3,927	0.09	0.06	0.06	0.07	1.42	1.02	1.30	1.33
Over 5,000,000	4,196	3,039	3,981	2,325	0.08	0.06	0.05	0.07	1.73	1.49	1.43	1.48
Provider of Purchased Electricity (more than one may apply)												
Local Utility	13,028	12,305	22,365	13,838	0.10	0.07	0.06	0.08	1.24	0.79	1.00	1.01
Some Other Provider	2,053	406	324	Q	0.09	0.07	0.07	0.08	1.48	0.91	0.54	1.85

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

N=No responding cases in sample.

Notes: * Statistics for the "energy end uses" represent consumption in buildings that have the end use, not consumption for a particular fuel for a particular end use. * Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table C13. Electricity Consumption and Conditional Energy Intensity, 1999

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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
All Buildings	205	362	341	14,001	30,052	21,663	14.6	12.0	15.8
Principal Building Activity									
Education	6	44	25	782	4,831	3,038	8.1	9.1	8.3
Food Sales	27	19	Q	439	485	Q	60.4	39.8	Q
Food Service	52	Q	Q	1,296	Q	Q	40.5	Q	Q
Health Care	5	14	49	407	672	1,838	11.6	20.6	26.9
Inpatient	N	Q	46	N	Q	1,683	N	Q	27.3
Outpatient	5	9	Q	407	490	Q	11.6	18.7	Q
Lodging	7	31	20	405	2,336	1,780	17.5	13.1	11.1
Mercantile	29	68	56	1,971	4,630	3,797	14.8	14.6	14.7
Retail (Other Than Mall)	22	23	19	1,649	2,375	742	13.6	9.7	25.8
Enclosed and Strip Malls	Q	45	37	Q	2,255	3,055	Q	19.8	12.1
Office	31	79	114	2,275	4,628	5,140	13.8	17.1	22.2
Public Assembly	8	28	20	943	2,254	1,143	8.2	12.5	17.6
Public Order and Safety	Q	7	Q	Q	557	Q	Q	12.8	Q
Religious Worship	3	9	Q	1,003	2,353	Q	2.5	4.0	Q
Service	17	16	Q	1,756	1,265	Q	9.9	12.8	Q
Warehouse and Storage	Q	24	30	1,613	4,695	3,570	6.5	5.0	8.5
Other	Q	12	11	Q	445	390	Q	28.0	29.1
Vacant	Q	Q	Q	Q	416	Q	Q	2.3	Q
Year Constructed									
1919 or Before	8	10	Q	1,253	1,816	645	6.5	5.6	12.9
1920 to 1945	16	20	18	1,496	2,784	2,001	10.6	7.1	9.2
1946 to 1959	20	41	29	2,555	4,092	2,147	7.8	10.1	13.7
1960 to 1969	33	53	51	1,975	4,888	3,822	16.8	10.9	13.2
1970 to 1979	42	71	69	2,395	5,421	3,934	17.7	13.0	17.5
1980 to 1989	43	92	86	2,031	6,459	4,994	21.1	14.3	17.3
1990 to 1999	42	75	79	2,296	4,591	4,120	18.4	16.2	19.2
Census Region and Division									
Northeast	31	52	76	2,066	4,887	5,011	15.2	10.7	15.1
New England	7	14	18	489	1,750	1,376	13.6	8.1	13.0
Middle Atlantic	25	38	58	1,577	3,137	3,635	15.7	12.1	15.8
Midwest	38	70	86	3,615	6,987	5,786	10.6	10.0	14.9
East North Central	28	45	53	2,476	4,511	3,954	11.3	9.9	13.5
West North Central	10	25	33	1,140	2,477	1,832	8.9	10.1	18.0
South	89	154	123	5,273	10,981	6,822	16.8	14.0	18.0
South Atlantic	36	76	68	2,272	4,967	3,578	15.7	15.3	19.1
East South Central	22	38	20	1,094	2,865	1,190	20.0	13.2	16.6
West South Central	31	40	35	1,907	3,149	2,054	16.4	12.8	17.0
West	46	86	56	3,046	7,196	4,044	15.2	12.0	14.0
Mountain	12	24	16	916	2,216	1,160	13.0	10.8	13.5
Pacific	34	63	41	2,130	4,981	2,884	16.1	12.5	14.1
Climate Zone: 45-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	19	22	24	1,535	2,787	1,428	12.1	7.9	16.9
5,500-7,000 HDD	34	74	89	2,724	7,292	6,690	12.6	10.1	13.2
4,000-5,499 HDD	53	78	100	3,643	6,119	6,031	14.5	12.8	16.7
Fewer than 4,000 HDD	55	110	77	3,099	8,273	4,549	17.6	13.4	17.0
2,000 CDD or More and --									
Fewer than 4,000 HDD	44	78	51	3,000	5,580	2,966	14.8	13.9	17.1

Table C13. Electricity Consumption and Conditional Energy Intensity, 1999

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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
Workers (main shift)									
Fewer than 5	73	24	1	7,017	5,189	544	10.4	4.5	2.0
5 to 9	40	22	2	2,782	3,099	393	14.2	7.2	4.4
10 to 19	48	51	4	2,582	4,708	737	18.5	10.8	5.5
20 to 49	37	98	13	1,409	7,706	1,699	26.6	12.7	7.6
50 to 99	Q	82	35	Q	5,681	3,074	Q	14.5	11.3
100 to 249	Q	64	84	Q	2,832	5,457	Q	22.5	15.4
250 or More	N	21	203	N	837	9,759	N	25.7	20.8
Weekly Operating Hours									
39 or Fewer	10	8	Q	2,658	2,120	Q	3.7	3.8	Q
40 to 48	38	58	18	4,191	6,959	1,920	9.0	8.4	9.1
49 to 60	39	71	60	3,004	7,423	3,759	12.9	9.6	16.1
61 to 84	34	68	70	2,003	5,368	5,009	17.1	12.7	14.0
85 to 167	58	71	49	1,280	3,797	3,853	45.0	18.7	12.8
Open Continuously	27	85	142	864	4,385	6,586	30.7	19.4	21.6
Ownership and Occupancy									
Nongovernment Owned	188	292	263	12,693	24,179	16,767	14.8	12.1	15.7
Owner Occupied	131	190	208	9,010	15,971	12,525	14.6	11.9	16.6
Nonowner Occupied	55	100	55	3,402	7,886	4,153	16.2	12.7	13.4
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	17	70	78	1,307	5,872	4,897	12.8	12.0	15.9
Federal	Q	10	23	Q	548	1,007	Q	18.7	22.5
State	Q	21	23	Q	1,692	1,484	Q	12.3	15.8
Local	11	39	32	946	3,632	2,405	11.7	10.8	13.2
Vacancy Status									
Completely Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	17	67	106	1,917	5,861	7,315	8.7	11.4	14.5
Not At All Vacant	186	294	234	11,575	23,775	14,161	16.1	12.4	16.6
Number of Establishments									
One	171	238	183	10,973	20,437	11,428	15.6	11.6	16.0
2 to 5	27	55	44	2,487	4,896	3,059	10.8	11.2	14.3
6 to 10	Q	36	19	Q	2,173	1,219	Q	16.5	15.6
11 to 20	Q	24	29	Q	1,591	1,661	Q	15.4	17.4
More than 20	Q	8	66	Q	590	4,163	Q	13.7	15.8
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)									
Electricity	205	362	341	14,001	30,052	21,663	14.6	12.0	15.8
Natural Gas	132	253	258	8,625	20,570	16,301	15.3	12.3	15.8
Fuel Oil	9	53	165	1,203	3,570	8,503	7.4	14.7	19.4
District Heat	Q	30	71	Q	2,007	3,613	Q	15.1	19.7
District Chilled Water	Q	16	38	Q	927	1,730	Q	17.4	22.1
Propane	26	26	24	1,621	2,637	2,032	16.3	9.8	12.0
Other	Q	12	14	Q	890	963	Q	13.5	14.4
Space-Heating Energy Source									
Electricity	92	207	199	5,459	15,069	11,763	16.9	13.8	16.9
Electricity Main	64	139	100	3,062	8,667	5,898	20.9	16.0	16.9
Electricity Secondary	28	69	99	2,397	6,402	5,866	11.8	10.7	16.9
Other Excluding Electricity	97	139	135	7,286	12,949	9,040	13.3	10.7	14.9
Buildings without Heating	15	16	8	1,256	2,034	861	12.2	7.7	9.2

Table C13. Electricity Consumption and Conditional Energy Intensity, 1999

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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
Primary Space-Heating									
Energy Source									
Electricity	64	139	100	3,062	8,667	5,898	20.9	16.0	16.9
Natural Gas	101	165	156	7,344	14,997	10,360	13.8	11.0	15.1
Fuel Oil	7	10	12	1,038	1,559	1,113	7.2	6.4	10.9
District Heat	Q	25	64	Q	1,645	3,301	Q	15.2	19.4
Propane	Q	6	Q	1,084	980	Q	14.1	5.6	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling Energy Source									
Electricity	183	334	309	10,723	25,930	18,893	17.1	12.9	16.3
Other Excluding Electricity	Q	17	27	Q	1,117	1,443	Q	15.0	18.9
Buildings without Cooling	13	11	5	2,909	3,004	1,328	4.4	3.8	4.1
Water-Heating Energy Source									
Electricity	85	151	142	4,593	10,985	8,593	18.6	13.7	16.5
Other Excluding Electricity	96	179	180	5,434	14,990	11,519	17.7	11.9	15.7
Buildings without Water Heating	23	33	19	3,973	4,077	1,551	5.8	8.0	12.3
Cooking Energy Source									
Electricity	51	78	144	1,148	4,838	7,747	44.7	16.1	18.5
Other Excluding Electricity	26	58	84	1,220	4,109	5,620	21.7	14.1	14.9
Buildings without Cooking	127	226	114	11,633	21,105	8,297	10.9	10.7	13.7
Energy End Uses (more than one may apply)									
Buildings with Space Heating	189	346	333	12,745	28,018	20,803	14.8	12.4	16.0
Buildings with Cooling	192	351	336	11,092	27,047	20,335	17.3	13.0	16.5
Buildings with Water Heating	182	330	322	10,028	25,974	20,112	18.1	12.7	16.0
Buildings with Cooking	78	136	227	2,367	8,947	13,367	32.8	15.2	17.0
Buildings with Manufacturing	4	15	24	553	1,509	1,064	7.9	10.1	22.5
Buildings with Electricity Generation	Q	69	169	Q	3,166	8,339	Q	21.7	20.3
Percent of Floorspace Heated									
Not Heated	15	16	8	1,256	2,034	861	12.2	7.7	9.2
1 to 50	12	24	20	2,182	3,567	1,816	5.6	6.7	11.0
51 to 99	39	61	64	1,927	5,025	3,785	20.0	12.1	16.9
100	138	262	249	8,636	19,426	15,202	16.0	13.5	16.4
Percent of Floorspace Cooled									
Not Cooled	13	11	5	2,909	3,004	1,328	4.4	3.8	4.1
1 to 50	29	58	41	3,318	8,920	4,608	8.8	6.5	8.8
51 to 99	46	107	141	2,273	7,021	7,673	20.4	15.2	18.3
100	116	186	154	5,501	11,106	8,054	21.2	16.8	19.2
Percent Lit When Open									
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	29	30	7	3,075	4,719	1,392	9.4	6.3	4.7
51 to 99	65	114	115	4,113	9,755	6,797	15.9	11.7	16.9
100	108	216	219	6,092	14,839	13,302	17.7	14.6	16.5
Building Never Open/ Electricity Not Used	Q	Q	Q	Q	Q	Q	Q	Q	Q
Percent Lit When Closed									
Zero	62	84	26	7,199	10,435	3,137	8.6	8.1	8.4
1 to 50	99	173	156	5,406	14,482	11,062	18.4	11.9	14.1
51 to 100	Q	20	17	Q	750	878	Q	27.0	18.8
Building Never Closed/ Electricity Not Used	27	85	142	864	4,385	6,586	30.7	19.4	21.6

Table C13. Electricity Consumption and Conditional Energy Intensity, 1999

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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
Heating Equipment (more than one may apply)									
Heat Pumps	28	62	61	1,424	4,158	3,341	19.5	15.0	18.3
Furnaces	46	57	36	5,118	6,438	2,892	8.9	8.9	12.6
Individual Space Heaters	24	87	103	2,505	7,732	7,084	9.8	11.3	14.6
District Heat	Q	28	70	Q	1,828	3,545	Q	15.4	19.7
Boilers	18	91	158	1,504	8,327	9,683	12.1	11.0	16.3
Packaged Heating Units	95	177	159	4,080	11,951	9,713	23.2	14.8	16.4
Other	7	19	41	515	1,422	2,135	14.0	13.4	19.1
Cooling Equipment (more than one may apply)									
Residential-Type Central									
Air Conditioners	28	35	37	2,496	3,501	2,333	11.3	10.0	15.9
Heat Pumps	28	62	62	1,406	4,167	3,574	20.1	15.0	17.4
Individual Air Conditioners	25	62	72	2,358	6,679	5,239	10.7	9.3	13.8
District Chilled Water	Q	16	38	Q	927	1,730	Q	17.4	22.1
Central Chillers	Q	63	196	Q	3,215	9,517	Q	19.7	20.5
Packaged Air Conditioning									
Units	124	244	217	5,810	17,315	13,402	21.3	14.1	16.2
Swamp Coolers	Q	13	10	435	1,009	775	Q	12.6	13.3
Other	Q	7	15	Q	452	707	Q	16.4	20.5
Main Equipment Replaced Since 1995 (more than one may apply)									
Heating	47	89	47	3,082	6,831	3,307	15.4	13.0	14.1
Cooling	54	111	88	3,037	8,726	5,628	17.9	12.7	15.6
Lighting Equipment Types (more than one may apply)									
Incandescent	111	207	225	6,993	16,939	14,223	15.8	12.2	15.8
Standard Fluorescent	182	348	332	11,876	27,684	20,784	15.3	12.6	16.0
Compact Fluorescent	38	110	203	1,846	7,480	11,340	20.6	14.6	17.9
High Intensity Discharge	14	95	191	908	7,026	11,290	15.1	13.6	16.9
Halogen	34	89	170	1,590	6,536	9,800	21.6	13.5	17.3
Other	Q	4	7	Q	394	464	Q	10.4	15.3
Water Heating Equipment									
Centralized System	139	207	155	7,891	17,503	10,186	17.6	11.8	15.3
Distributed System	27	63	66	1,781	4,667	4,450	15.4	13.5	14.8
Combination of Centralized and Distributed System	15	59	101	356	3,805	5,476	43.3	15.6	18.4
Commercial Refrigeration Equipment (more than one may apply)									
Any Equipment	93	145	247	2,505	9,110	14,036	37.1	15.9	17.6
Walk-In Units	85	113	208	1,794	5,926	11,992	47.4	19.1	17.4
Cases or Cabinets	86	124	215	2,290	7,409	12,302	37.3	16.8	17.4
None	112	217	94	11,496	20,941	7,627	9.7	10.4	12.4
Personal Computers									
None	45	11	1	4,958	2,450	553	9.1	4.4	Q
1 to 4	86	69	8	5,315	7,464	1,074	16.2	9.2	7.5
5 to 9	36	48	7	1,688	4,200	641	21.2	11.3	10.3
10 to 19	26	52	18	1,534	4,084	1,896	17.2	12.7	9.4
20 to 49	10	62	40	476	4,721	2,890	21.5	13.1	13.8
50 to 99	Q	46	32	Q	3,514	2,327	Q	13.0	13.7
100 to 249	Q	56	63	Q	2,878	3,936	Q	19.6	16.1
250 or More	N	19	172	N	741	8,347	N	25.9	20.7

Table C13. Electricity Consumption and Conditional Energy Intensity, 1999

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	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
Photocopiers									
None	120	82	15	8,902	9,168	1,939	13.5	9.0	7.8
One	64	87	18	3,724	7,537	1,667	17.1	11.6	10.9
2 to 4	18	113	69	1,165	8,936	5,519	15.6	12.6	12.5
5 to 9	Q	39	42	Q	2,236	2,937	Q	17.2	14.4
10 or More	N	42	197	N	2,173	9,601	N	19.1	20.5
Other Electronic Equipment (more than one may apply)									
Laser Printers	94	296	328	5,396	21,598	19,573	17.4	13.7	16.8
FAX Machines	155	333	338	8,525	25,429	20,810	18.1	13.1	16.3
Medical Diagnostic Equipment	Q	11	48	Q	527	1,700	Q	21.0	28.2
Annual Consumption (kilowatthours)									
10,000 or Less	4	Q	Q	2,504	669	Q	1.4	0.3	Q
10,001 to 50,000	35	6	Q	5,798	3,247	Q	6.0	1.8	Q
50,001 to 100,000	40	15	Q	2,706	4,052	Q	14.6	3.6	Q
100,001 to 500,000	115	116	3	2,873	12,539	1,398	40.2	9.2	2.0
500,001 to 1,000,000	Q	79	9	Q	4,782	2,066	Q	16.6	4.4
1,000,001 to 5,000,000	Q	140	116	Q	4,707	8,951	Q	29.8	13.0
Over 5,000,000	N	Q	213	N	Q	8,767	N	Q	24.3
Provider of Purchased Electricity (more than one may apply)									
Local Utility	192	342	310	13,378	28,799	19,866	14.3	11.9	15.6
Some Other Provider	Q	15	28	Q	1,110	1,510	Q	13.8	18.9

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

N=No responding cases in sample.

Notes: * Statistics for the "energy end uses" represent consumption in buildings that have the end use, not consumption for a particular fuel for a particular end use. * Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.

Table C14. Electricity Consumption and Conditional Energy Intensity by Year Constructed, 1999

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999
All Buildings	171	540	196	18,788	35,920	11,007	9.1	15.0	17.8
Building Floorspace (Square Feet)									
1,001 to 5,000	24	71	26	2,222	2,944	1,114	10.9	24.1	23.7
5,001 to 10,000	20	47	16	3,081	3,457	1,182	6.4	13.7	13.4
10,001 to 25,000	30	65	14	3,835	5,916	1,091	7.7	11.1	12.4
25,001 to 50,000	21	64	24	2,427	5,109	1,638	8.5	12.6	14.4
50,001 to 100,000	21	86	37	2,430	5,743	1,862	8.6	15.1	20.1
100,001 to 200,000	16	82	34	1,779	4,816	1,651	8.8	17.1	20.6
200,001 to 500,000	17	59	24	1,695	3,756	1,338	10.2	15.7	17.6
Over 500,000	23	65	22	1,318	4,179	1,131	17.5	15.5	19.2
Principal Building Activity									
Education	23	40	13	3,247	4,165	1,239	7.1	9.5	10.3
Food Sales	Q	22	19	Q	443	355	Q	50.6	53.9
Food Service	12	37	Q	608	952	Q	19.4	39.1	Q
Health Care	9	49	10	548	1,897	473	16.0	26.0	21.3
Inpatient	8	39	Q	434	1,277	Q	17.7	30.3	Q
Outpatient	Q	11	6	Q	620	319	Q	17.0	18.6
Lodging	8	40	10	808	2,996	716	10.1	13.3	13.3
Mercantile	23	89	41	2,582	5,786	2,030	8.9	15.4	20.1
Retail (Other Than Mall)	14	26	25	1,901	1,726	1,139	7.4	14.8	22.0
Enclosed and Strip Malls	9	63	16	681	4,060	891	13.3	15.6	17.6
Office	43	148	33	2,907	7,306	1,830	14.9	20.3	18.2
Public Assembly	13	30	13	1,395	2,209	736	9.7	13.4	17.5
Public Order and Safety	3	5	Q	392	411	Q	8.0	12.2	Q
Religious Worship	3	7	Q	1,301	1,748	Q	2.4	4.2	Q
Service	11	24	Q	1,253	1,768	Q	9.1	13.8	Q
Warehouse and Storage	9	36	19	2,509	5,342	2,028	3.7	6.7	9.6
Other	Q	12	Q	Q	603	Q	Q	19.9	Q
Vacant	Q	Q	Q	797	Q	Q	Q	Q	Q
Census Region and Division									
Northeast	46	85	28	4,798	5,790	1,376	9.6	14.7	20.2
New England	9	23	6	1,211	1,971	433	7.8	11.7	14.3
Middle Atlantic	36	62	22	3,587	3,819	943	10.2	16.3	22.9
Midwest	49	107	38	5,999	7,601	2,788	8.2	14.0	13.7
East North Central	32	68	26	4,377	4,697	1,866	7.3	14.4	14.1
West North Central	17	39	12	1,622	2,904	922	10.7	13.4	13.0
South	48	230	87	4,971	13,667	4,439	9.7	16.8	19.7
South Atlantic	18	115	46	1,989	6,525	2,303	9.3	17.7	19.9
East South Central	12	47	Q	1,038	3,067	1,044	11.8	15.4	19.1
West South Central	18	67	22	1,944	4,074	1,092	9.1	16.5	19.8
West	28	119	42	3,020	8,862	2,404	9.2	13.4	17.7
Mountain	10	31	11	1,074	2,519	698	8.9	12.3	15.5
Pacific	18	88	32	1,946	6,343	1,706	9.4	13.8	18.6
Climate Zone: 45-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	12	40	13	1,886	2,947	918	6.2	13.5	14.1
5,500-7,000 HDD	49	104	43	6,010	8,107	2,589	8.2	12.9	16.7
4,000-5,499 HDD	55	131	46	5,304	7,973	2,516	10.3	16.4	18.3
Fewer than 4,000 HDD	31	150	61	3,070	9,643	3,209	10.1	15.6	19.1
2,000 CDD or More and --									
Fewer than 4,000 HDD	25	115	33	2,519	7,251	1,776	9.8	15.9	18.3

Table C14. Electricity Consumption and Conditional Energy Intensity by Year Constructed, 1999

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999
Workers (main shift)									
Fewer than 5	26	53	19	5,752	5,372	1,626	4.5	9.8	11.9
5 to 9	15	40	9	2,026	3,419	829	7.4	11.7	10.4
10 to 19	25	57	21	2,781	4,093	1,153	9.0	13.9	17.9
20 to 49	29	86	34	2,953	5,772	2,089	9.8	14.8	16.4
50 to 99	16	77	29	1,638	5,660	1,601	10.0	13.7	17.9
100 to 249	19	90	40	1,580	4,990	1,786	12.3	17.9	22.4
250 or More	41	139	45	2,057	6,614	1,925	19.9	21.0	23.2
Weekly Operating Hours									
39 or Fewer	6	12	Q	2,499	2,384	Q	2.5	5.1	Q
40 to 48	30	66	17	4,927	6,373	1,771	6.2	10.4	9.5
49 to 60	40	97	34	4,248	7,646	2,292	9.3	12.6	14.8
61 to 84	32	110	30	2,837	7,363	2,180	11.3	14.9	13.9
85 to 167	27	104	48	1,819	5,129	1,981	14.6	20.2	24.0
Open Continuously	36	152	66	2,458	7,025	2,352	14.7	21.6	28.1
Ownership and Occupancy									
Nongovernment Owned	125	454	163	14,624	29,964	9,052	8.6	15.2	18.0
Owner Occupied	94	318	117	10,865	20,448	6,193	8.7	15.6	18.9
Nonowner Occupied	30	135	46	3,440	9,199	2,802	8.8	14.7	16.3
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	46	86	33	4,164	5,956	1,956	11.0	14.5	16.9
Federal	15	14	7	826	642	243	18.7	21.8	26.7
State	13	25	9	1,177	1,650	554	11.3	15.1	16.1
Local	17	47	18	2,161	3,664	1,158	7.9	12.9	15.3
Vacancy Status									
Completely Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	33	119	38	3,749	8,571	2,773	8.7	13.9	13.8
Not At All Vacant	137	420	158	14,242	27,055	8,213	9.6	15.5	19.2
Number of Establishments									
One	118	334	141	13,129	22,103	7,607	9.0	15.1	18.5
2 to 5	25	75	26	3,372	5,326	1,745	7.3	14.1	14.7
6 to 10	9	43	8	679	2,410	479	12.9	17.8	16.0
11 to 20	Q	37	9	Q	2,256	498	Q	16.5	18.9
More than 20	11	50	13	709	3,479	621	16.1	14.4	20.4
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)									
Electricity	171	540	196	18,788	35,920	11,007	9.1	15.0	17.8
Natural Gas	123	369	151	13,034	24,386	8,076	9.4	15.1	18.7
Fuel Oil	42	142	43	3,579	7,590	2,108	11.7	18.7	20.2
District Heat	34	54	Q	2,338	2,876	677	14.3	18.7	26.3
District Chilled Water	14	29	13	794	1,550	407	17.1	18.4	32.8
Propane	10	49	17	1,410	3,586	1,295	7.4	13.8	13.1
Other	9	18	6	765	1,204	353	12.1	14.6	18.0
Space-Heating Energy Source									
Electricity	83	304	111	7,313	19,045	5,933	11.4	16.0	18.7
Electricity Main	35	190	77	2,769	11,150	3,708	12.6	17.0	20.9
Electricity Secondary	49	114	34	4,544	7,896	2,225	10.7	14.4	15.2
Other Excluding Electricity	85	206	79	10,205	14,403	4,667	8.3	14.3	17.0
Buildings without Heating	3	30	Q	1,271	2,473	Q	2.6	12.1	Q

Table C14. Electricity Consumption and Conditional Energy Intensity by Year Constructed, 1999

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999
Primary Space-Heating									
Energy Source									
Electricity	35	190	77	2,769	11,150	3,708	12.6	17.0	20.9
Natural Gas	89	241	93	10,176	16,847	5,677	8.7	14.3	16.3
Fuel Oil	10	18	Q	1,745	1,707	Q	5.6	10.3	Q
District Heat	30	45	15	2,151	2,497	428	14.0	18.2	34.1
Propane	4	14	Q	519	1,074	Q	6.8	13.0	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling Energy Source									
Electricity	148	501	177	14,026	31,749	9,770	10.5	15.8	18.1
Other Excluding Electricity	12	25	16	869	1,474	585	13.3	17.2	27.1
Buildings without Cooling	12	14	Q	3,893	2,697	Q	3.1	5.3	Q
Water-Heating Energy Source									
Electricity	49	242	87	4,820	14,952	4,399	10.2	16.2	19.7
Other Excluding Electricity	101	259	95	10,108	16,788	5,047	10.0	15.4	18.8
Buildings without Water Heating	21	39	15	3,859	4,180	1,561	5.4	9.3	9.4
Cooking Energy Source									
Electricity	47	171	56	3,024	8,251	2,458	15.4	20.7	22.6
Other Excluding Electricity	38	86	44	3,495	5,509	1,945	10.8	15.6	22.6
Buildings without Cooking	87	284	97	12,269	22,161	6,605	7.1	12.8	14.6
Energy End Uses (more than one may apply)									
Buildings with Space Heating	168	510	190	17,517	33,448	10,600	9.6	15.3	18.0
Buildings with Cooling	159	526	193	14,895	33,224	10,355	10.7	15.8	18.6
Buildings with Water Heating	150	501	181	14,928	31,740	9,446	10.1	15.8	19.2
Buildings with Cooking	84	257	100	6,519	13,759	4,403	13.0	18.7	22.6
Buildings with Manufacturing	10	25	9	933	1,709	485	10.5	14.6	18.3
Buildings with Electricity Generation	35	151	59	1,992	7,149	2,741	17.8	21.1	21.6
Percent of Floorspace Heated									
Not Heated	3	30	Q	1,271	2,473	Q	2.6	12.1	Q
1 to 50	14	32	9	2,617	3,749	1,198	5.5	8.6	7.7
51 to 99	33	94	37	3,218	5,742	1,777	10.3	16.3	20.6
100	121	384	145	11,683	23,957	7,625	10.3	16.0	19.0
Percent of Floorspace Cooled									
Not Cooled	12	14	Q	3,893	2,697	Q	3.1	5.3	Q
1 to 50	37	64	27	6,241	8,052	2,553	6.0	7.9	10.4
51 to 99	57	175	62	4,052	9,818	3,096	14.1	17.8	20.0
100	65	288	104	4,603	15,354	4,706	14.0	18.8	22.1
Percent Lit When Open									
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	19	31	15	4,301	3,928	957	4.5	7.8	15.7
51 to 99	66	183	46	6,025	11,398	3,242	10.9	16.1	14.0
100	85	323	135	7,583	19,981	6,670	11.2	16.2	20.3
Building Never Open/ Electricity Not Used	Q	Q	Q	863	Q	Q	Q	Q	Q
Percent Lit When Closed									
Zero	36	101	35	6,811	10,503	3,458	5.3	9.6	10.1
1 to 50	92	264	72	9,247	17,259	4,444	10.0	15.3	16.2
51 to 100	Q	23	23	Q	1,134	753	Q	20.6	31.1
Building Never Closed/ Electricity Not Used	36	152	66	2,458	7,025	2,352	14.7	21.6	28.1

Table C14. Electricity Consumption and Conditional Energy Intensity by Year Constructed, 1999

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999
Heating Equipment (more than one may apply)									
Heat Pumps	25	90	36	1,764	5,363	1,796	14.2	16.8	20.1
Furnaces	35	76	28	4,847	7,215	2,387	7.2	10.5	11.9
Individual Space Heaters	53	120	43	5,337	9,268	2,715	9.9	12.9	15.7
District Heat	33	51	16	2,309	2,726	499	14.2	18.5	31.9
Boilers	55	165	47	6,415	10,620	2,479	8.6	15.5	19.1
Packaged Heating Units	54	262	114	4,820	15,239	5,684	11.3	17.2	20.1
Other	14	38	14	1,030	2,257	786	14.0	17.0	18.2
Cooling Equipment (more than one may apply)									
Residential-Type Central									
Air Conditioners	27	58	16	2,573	4,483	1,274	10.3	13.0	12.2
Heat Pumps	25	95	33	1,818	5,624	1,705	14.0	16.8	19.1
Individual Air Conditioners	54	81	25	6,113	6,687	1,476	8.8	12.1	16.8
District Chilled Water	14	29	13	794	1,550	407	17.1	18.4	32.8
Central Chillers	48	167	49	2,567	8,114	2,229	18.8	20.6	21.9
Packaged Air Conditioning									
Units	92	362	131	8,037	21,665	6,825	11.5	16.7	19.2
Swamp Coolers	5	19	Q	509	1,371	339	10.4	13.9	16.3
Other	Q	17	Q	Q	951	Q	Q	17.9	Q
Main Equipment Replaced Since 1995 (more than one may apply)									
Heating	41	129	13	4,160	8,266	794	9.9	15.6	15.8
Cooling	59	177	18	5,340	11,107	943	11.0	15.9	18.8
Lighting Equipment Types (more than one may apply)									
Incandescent	112	333	97	11,393	21,385	5,377	9.9	15.6	18.1
Standard Fluorescent	162	517	182	16,693	33,658	9,993	9.7	15.4	18.2
Compact Fluorescent	55	220	76	4,483	12,023	4,160	12.3	18.3	18.3
High Intensity Discharge	51	167	81	4,193	10,566	4,464	12.3	15.8	18.2
Halogen	48	179	66	3,653	10,699	3,574	13.2	16.7	18.4
Other	Q	7	9	Q	460	392	Q	15.7	22.6
Water Heating Equipment									
Centralized System	93	302	107	10,284	19,732	5,564	9.0	15.3	19.3
Distributed System	22	97	38	2,269	6,505	2,125	9.5	14.9	17.8
Combination of Centralized and Distributed System	36	103	37	2,376	5,503	1,758	15.3	18.7	20.8
Commercial Refrigeration Equipment (more than one may apply)									
Any Equipment	84	290	111	6,180	14,877	4,595	13.6	19.5	24.2
Walk-In Units	65	248	94	4,071	11,957	3,685	15.9	20.7	25.4
Cases or Cabinets	77	251	97	5,580	12,458	3,963	13.7	20.1	24.4
None	88	250	85	12,608	21,043	6,412	6.9	11.9	13.2
Personal Computers									
None	17	30	10	3,596	3,353	1,012	4.7	8.9	9.9
1 to 4	38	98	28	5,294	6,989	1,569	7.1	14.0	17.5
5 to 9	14	50	26	1,534	3,803	1,191	8.9	13.1	22.2
10 to 19	14	57	25	1,615	4,251	1,647	8.9	13.3	15.4
20 to 49	21	61	31	2,103	4,183	1,801	9.8	14.5	17.1
50 to 99	13	45	21	1,349	3,243	1,276	9.5	13.7	16.1
100 to 249	17	79	24	1,216	4,356	1,245	14.2	18.2	19.1
250 or More	38	122	32	2,079	5,741	1,267	18.3	21.2	25.0

Table C14. Electricity Consumption and Conditional Energy Intensity by Year Constructed, 1999

	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/square foot)		
	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999
Photocopiers									
None	47	125	45	7,460	9,945	2,604	6.3	12.6	17.3
One	32	93	44	3,928	6,643	2,358	8.2	14.0	18.6
2 to 4	34	119	47	4,033	8,666	2,921	8.4	13.7	16.0
5 to 9	8	55	21	620	3,390	1,373	13.0	16.1	14.9
10 or More	50	148	40	2,747	7,275	1,752	18.2	20.4	22.7
Other Electronic Equipment (more than one may apply)									
Laser Printers	125	426	167	11,145	26,657	8,765	11.2	16.0	19.1
FAX Machines	148	490	188	14,063	30,817	9,883	10.5	15.9	19.0
Medical Diagnostic Equipment	7	46	9	374	1,731	388	19.2	26.6	22.0
Annual Consumption (kilowatthours)									
10,000 or Less	2	1	Q	1,936	983	Q	1.0	1.4	Q
10,001 to 50,000	16	20	5	4,095	3,913	1,231	3.8	5.1	4.1
50,001 to 100,000	17	29	8	2,397	3,737	867	7.2	7.9	8.8
100,001 to 500,000	49	142	43	4,969	9,301	2,540	9.9	15.3	16.8
500,001 to 1,000,000	18	60	22	1,574	4,138	1,255	11.3	14.4	17.6
1,000,001 to 5,000,000	35	158	64	2,323	8,379	2,958	15.2	18.9	21.7
Over 5,000,000	34	130	54	1,494	5,469	1,860	22.9	23.8	29.2
Provider of Purchased Electricity (more than one may apply)									
Local Utility	157	510	176	17,640	34,242	10,161	8.9	14.9	17.3
Some Other Provider	12	27	12	880	1,620	601	13.8	16.7	19.6

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

Notes: * Statistics for the "energy end uses" represent consumption in buildings that have the end use, not consumption for a particular fuel for a particular end use. * Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.