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	Sit	te	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		7,721	7.5	853	283	83	7,146
10,001 to 25,000		10,843	15.8	1,118	370	109	8,663
25,001 to 50,000		9,175	36.3	1,121	371	109	8,188
50,001 to 100,000		10,034	70.0	1,491	494	145	10,023
100,001 to 200,000		8,246	139.5 296.0	1,361	451	132	8,555
200,001 to 500,000 Over 500,000		6,790 6,628	929.0	1,028 1,127	340 373	100 109	6,432 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		1,053	9.1	181	60	18	1,320
Lodging		4,521	29.5	591	196	57	4,266
Mercantile		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	,	16.3		767	225	
	299	12,043		2,314			15,683
Public Assembly		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 Vacant	98 123	1,217 1,112	12.4 9.0	306 31	101 10	30 3	2,063 265
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		8,794	12.3	934	310	91	6,989
1960 to 1969		10,686	17.0	1,413	468	137	10,250
1970 to 1979		11,750	15.5	1,875	621	182	13,461
1980 to 1989		13,485	17.3	2,280	755	221	15,777
1990 to 1999		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
	333	7,110	11.5	1,000	JU <del>4</del>	107	0,+70
	954	14 227	15.0	1 0⊿Ջ	645	120	15 023
West	954 275	14,287 4,292	15.0 15.6	1,948 530	645 175	189 51	15,083 3,365

Table C9. Total Electricity Consumption and Expenditures, 1999

	Α	II Buildings Usi Electricity	ng	Electricity Consumption			Electricity Expenditures
				Primary	Site		
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (trillion Btu)	Total (billion kWh)	Total (million dollars)
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	,	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	,	6,274	7.8	654	217	64	5,462
10 to 19		8,028	11.8	1,055	350	102	8,439
20 to 49		10,814	22.2	1,530	507	149	11,068
50 to 99		8,898	51.1	1,260	418	122	9,122
100 to 249		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		13,070	11.4	1,169	387	114	8,799
49 to 60	,	14,186	14.5	1,754	581	170	12,980
61 to 84		12,381	19.1	1,776	588	172	13,082
85 to 167		8,930	19.5	1,833	607	178	13,107
Open Continuously		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
•	,	,			*	530	
Owner Occupied		37,506	13.7	5,455	1,807 720	211	38,540
Nonowner Occupied	,	15,441 693	14.4 Q	2,173 Q	720 Q	211 Q	16,358 Q
Unoccupied	Q 400						
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	83 361	3,382 6,983	40.8 19.3	484 846	160 280	47 82	3,189 5,955
	001	0,000		0.0	200	02	0,000
Vacancy Status	_	_	_	_	_		_
Completely Vacant	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant		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	-, -	42,839	12.5	6,102	2,021	592	43,175
2 to 5		10,442	15.3	1,294	429	126	9,297
6 to 10		3,568	31.5	611	202	59	4,492
11 to 20		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		2,322	15.2	341	113	33	2,512

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  Total (trillion Btu)	Site		
					Total (trillion Btu)	Total (billion kWh)	Total (million dollars)
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		14,664	19.5	2,021	670	196	13,710
Other Excluding Electricity		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		3,711	12.3	305	101	30	2,923
District Heat		5,077	66.0	928	308	90	5,784
Propane		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		2,929	26.8	543	180	53	3,564
Buildings without Cooling	836	7,242	8.7	306	101	30	2,579
-		.,	<b>U</b>				_,0.0
Water-Heating Energy Source		0	4-0		4 000	0-0	o= =o.
Electricity		24,171	15.6	3,896	1,290	378	27,581
Other Excluding Electricity	1,693 1,157	31,943 9,601	18.9 8.3	4,689 767	1,553 254	455 74	33,293 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		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		24,681	28.8	4,540	1,504	441	30,873
Buildings with Manufacturing Buildings with Electricity	151	3,126	20.7	449	149	44	3,060
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		10,737 43,264	17.1 15.4	1,683 6,691	557 2,216	163 650	11,384 47,247
	_,	,		2,231	_,_ 10	- 30	,=
Percent of Floorspace Cooled  Not Cooled	836	7,242	8.7	306	101	30	2,579
1 to 50		16,846	16.6	1,315	436	128	10,363
51 to 99		16,966	22.6	3,026	1,002	294	20,141
100		24,662	13.7	4,705	1,559	457	33,342
Percent Lit When Open							
Zero		Q	Q	Q	Q	Q	Q
1 to 50		9,187	11.0	672	223	65	5,396
51 to 99	,	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

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  Total (trillion  Btu)	Site		
					Total (trillion Btu)	Total (billion kWh)	Total (million dollars)
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	10,24
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			40.0	4.00=	2.12	101	
Air Conditioners	676	8,329	12.3	1,037	343	101	7,11:
Heat Pumps	485	9,147	18.8	1,574	521	153	10,41
Individual Air Conditioners	799	14,276	17.9	1,642	544	159	11,79
District Chilled Water	50	2,750	55.4	571	189	55	3,22
Central Chillers	130	12,909	99.7	2,723	902	264	17,04
Packaged Air Conditioning	1.052	26 527	10.7	6.004	1.005	E0E	42.05
Units Swamp Coolers	1,953 136	36,527	18.7 16.3	6,024 308	1,995 102	585 30	43,059
Other	49	2,219 1,312	26.7	247	82	24	2,23 1,58
Main Equipment Replaced Since							
1995 (more than one may apply)							
Heating	984	13,220	13.4	1,880	623	182	13,42
Cooling	1,085	17,390	16.0	2,609	864	253	18,38
Lighting Equipment Types							
(more than one may apply)							
Incandescent	2,193	38,156	17.4	5,591	1,852	543	39,34
Standard Fluorescent	3,778	60,344	16.0	8,872	2,939	861	62,61
Compact Fluorescent	607	20,666	34.1	3,613	1,197	351	24,26
High Intensity Discharge	430	19,223	44.8	3,088	1,023	300	19,74
Halogen Other	572 58	17,926 1,004	31.3 17.5	3,014 179	998 59	293 17	20,650 1,23
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	11,38
Combination of Centralized	550	10,009	10.0	1,010	000	100	11,000
and Distributed System	200	9,637	48.1	1,811	600	176	11,48
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

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  Total (trillion Btu)	Site		
					Total (trillion Btu)	Total (billion kWh)	Total (million dollars)
Personal Computers							
None	1,355	7,961	5.9	584	193	57	4.76
1 to 4	1,636	13,853	8.5	1,678	556	163	13.00
5 to 9	542	6,528	12.0	927	307	90	6,94
10 to 19		7,514	18.7	992	329	96	7,74
20 to 49		8,087	32.7	1,153	382	112	8,16
50 to 99		5,867	55.9	803	266	78	5,60
100 to 249	71	6,818	96.0	1,240	411	120	7,67
250 or More	36	9,088	252.4	1,974	654	192	12,52
Photocopiers							
None	2,564	20,009	7.8	2,242	743	218	17,61
One	1,114	12,928	11.6	1,741	577	169	12,84
2 to 4	540	15,620	28.9	2,059	682	200	14,52
5 to 9	102	5,384	52.6	857	284	83	5,62
10 or More	75	11,774	156.7	2,453	813	238	15,81
Other Electronic Equipment							
(more than one may apply)							
Laser Printers	1,949	46,567	23.9	7,396	2,450	718	51,03
FAX Machines	2,807	54,764	19.5	8,505	2,817	826	59,66
Medical Diagnostic Equipment	86	2,493	29.1	637	211	62	3,77
Annual Consumption							
(kilowatthours)							
10,000 or Less	747	3,216	4.3	38	13	4	42
10,001 to 50,000	,	9,239	5.9	418	138	41	3,85
50,001 to 100,000		7,001	9.4	560	185	54	4,92
100,001 to 500,000		16,811	16.1	2,408	798	234	18,92
500,001 to 1,000,000		6,966	49.4	1,024	339	99	7,52
1,000,001 to 5,000,000		13,661	109.2	2,650	878	257	17,23
Over 5,000,000	19	8,823	475.8	2,254	747	219	13,54
Provider of Purchased							
Electricity (more than							
one may apply)	4.00	00.010	4	0.00-	0.6==	0.10	0: -0
Local Utility	4,224	62,043	14.7	8,687	2,877	843	61,53
Some Other Provider	140	3,101	22.1	525	174	51	4,02

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.