

**Table 3.46. Electricity Consumption and Expenditure Intensities in
FBSS Buildings in Federal Region 3, 1993**

Building Characteristics	Electricity Consumption							Electricity Expenditures		
	Total (million kWh)	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	1,985	6,382	21.1	6.4	11.8	17.3	27.4	387.5	1.28	0.06
Building Floorspace (square feet)										
10,000 to 50,000	59	625	22.9	9.5	12.0	17.1	25.5	37.0	1.36	.06
50,001 to 200,000	337	2,879	25.6	11.3	11.4	18.1	31.7	156.5	1.39	.05
Over 200,000	1,589	15,892	20.3	5.8	12.4	17.0	23.4	987.3	1.26	.06
Principal Building Activity										
Education	8	1,026	13.7	7.8	6.7	12.2	28.3	51.8	.69	.05
Health Care	215	5,255	14.8	9.2	11.8	13.2	18.1	280.4	.79	.05
Laboratory	218	5,897	42.2	22.5	31.7	39.2	49.7	321.5	2.30	.05
Lodging	38	2,933	14.9	31.4	12.0	18.5	22.0	152.7	.78	.05
Mercantile and Service	130	2,889	17.9	2.5	7.7	12.8	18.3	174.7	1.08	.06
Office	1,169	9,429	20.6	5.7	12.1	16.9	25.7	608.0	1.33	.06
All Others	206	4,781	28.7	12.0	13.2	18.8	28.0	267.0	1.61	.06
Year Constructed										
1959 or Before	849	5,981	19.4	4.4	11.4	14.4	20.9	403.7	1.31	.07
1960 to 1969	454	6,483	23.2	10.0	17.3	24.2	38.4	383.8	1.37	.06
1970 to 1979	438	9,532	25.8	10.0	12.0	19.1	28.0	497.2	1.34	.05
1980 to 1989	168	4,425	18.7	7.0	13.1	18.1	23.4	241.8	1.02	.05
1990 to 1993	75	5,003	15.7	11.2	12.5	14.3	18.5	284.4	.89	.06
Federal Agency										
Department of Defense	282	12,797	20.1	6.5	11.2	13.9	22.0	636.9	1.00	.05
General Services Administration ..	979	11,792	21.2	5.9	10.5	15.8	23.2	803.6	1.44	.07
United States Postal Service	166	2,970	19.2	3.0	7.8	14.5	21.5	176.0	1.14	.06
Veterans Administration	202	3,600	15.2	10.4	11.5	13.4	18.6	190.9	.80	.05
All Others	357	3,793	29.7	14.2	16.9	31.1	40.2	205.0	1.61	.05
Energy Sources (more than one may apply)										
Electricity	1,985	6,382	21.1	6.4	11.8	17.3	27.4	387.5	1.28	.06
Natural Gas	1,205	8,732	20.8	5.2	11.2	16.5	22.9	544.3	1.30	.06
Fuel Oil	885	9,938	22.5	9.1	11.7	18.2	23.9	521.7	1.18	.05
District Heat	1,361	8,840	21.3	5.6	12.5	18.3	31.7	564.8	1.36	.06
District Chilled Water	480	8,413	20.9	7.4	13.2	22.4	38.4	447.9	1.11	.05
Propane	17	3,483	18.5	19.1	12.7	21.0	22.3	298.3	1.58	.09
Any Other	75	9,346	16.7	6.3	11.7	16.3	24.8	539.9	.97	.06
Energy End Uses (more than one may apply)										
Heating	1,979	6,469	21.2	6.4	12.0	17.5	27.5	392.5	1.29	.06
Air Conditioning	1,981	6,495	21.2	6.4	12.3	17.6	27.5	394.3	1.29	.06
Water Heating	1,965	6,508	21.3	6.4	12.0	17.6	27.5	394.6	1.29	.06
Cooking	1,498	13,870	21.4	5.9	12.8	17.9	27.1	857.7	1.32	.06
Manufacturing	651	13,010	24.1	6.5	12.7	18.9	28.5	686.3	1.27	.05
Workers (main shift)										
Less than 50	53	749	13.0	33.6	10.0	13.2	19.6	44.7	.77	.06
50 to 99	33	837	17.2	12.4	11.4	18.0	31.7	48.3	.99	.06
100 to 499	336	3,140	24.6	12.8	12.3	19.8	34.7	171.7	1.35	.05
500 or More	1,563	16,628	21.0	5.6	13.1	17.7	26.2	1,033.0	1.30	.06
Weekly Operating Hours										
48 or Fewer	127	2,493	13.1	6.2	11.3	14.3	21.0	323.4	1.70	.13
49 to 60	479	6,304	18.8	7.1	12.3	16.4	27.5	391.8	1.17	.06
61 to 167	257	4,287	21.4	9.3	9.4	17.4	25.2	244.6	1.22	.06
Open Continuously	1,121	9,043	23.9	5.7	12.6	18.5	34.0	480.5	1.27	.05

See footnotes at end of table.

**Table 3.46. Electricity Consumption and Expenditure Intensities in
FBSS Buildings in Federal Region 3, 1993 (Continued)**

Building Characteristics	Electricity Consumption							Electricity Expenditures		
	Total (million kWh)	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			
Multibuilding Facility										
Yes	910	5,203	21.1	7.5	12.5	18.6	33.4	283.5	1.15	0.05
No	1,074	7,899	21.1	5.7	10.1	15.8	22.0	521.4	1.39	.07
Space-Heating Energy Source										
Electricity	403	5,757	21.8	7.5	13.4	17.8	25.4	351.1	1.33	.06
Electricity Main	158	4,380	23.2	7.1	13.8	19.1	29.2	262.3	1.39	.06
Electricity Secondary	245	7,214	21.0	7.8	11.5	17.0	22.0	445.1	1.30	.06
Other Excluding Electricity	1,577	6,680	21.1	6.1	11.8	17.3	28.0	404.7	1.28	.06
Building Not Heated	5	1,063	6.5	13.9	1.2	3.6	10.2	86.9	.53	.08
Cooling Energy Source										
Electricity	1,738	6,788	21.5	6.2	11.9	17.2	24.5	415.3	1.31	.06
Other Excluding Electricity	243	4,969	19.3	8.0	13.1	22.4	38.9	284.8	1.11	.06
A/C Not Performed	4	618	5.2	18.6	1.2	5.8	10.2	41.7	.35	.07
Water-Heating Energy Source										
Electricity	403	4,287	21.2	9.1	13.3	18.2	28.0	238.3	1.18	.06
Other Excluding Electricity	1,562	7,512	21.3	5.9	11.4	17.0	27.1	465.2	1.32	.06
Water Heating Not Performed	19	2,150	11.1	6.8	3.6	10.2	13.4	152.0	.79	.07
Cooking Energy Source										
Electricity	914	13,440	22.1	5.2	12.9	17.5	27.5	862.9	1.42	.06
Other Excluding Electricity	584	14,600	20.5	7.6	12.8	18.8	26.0	848.9	1.19	.06
Cooking Not Performed	487	2,398	20.1	8.6	11.4	16.8	28.0	137.4	1.15	.06
Manufacturing Energy Source										
Electricity	513	11,933	25.0	5.8	12.7	19.0	28.5	643.7	1.35	.05
Other Excluding Electricity	137	19,627	21.1	11.8	12.5	15.8	31.7	947.7	1.02	.05
Manufacturing Not Performed	1,334	5,112	19.9	6.3	11.5	16.9	26.1	330.3	1.28	.06
Percent of Floorspace Heated										
Not Heated	5	1,063	6.5	13.9	1.2	3.6	10.2	86.9	.53	.08
1 to 50	70	5,845	12.1	9.0	3.1	13.0	16.8	324.4	.67	.06
51 to 100	1,909	6,494	21.8	6.3	12.2	17.9	27.9	395.2	1.33	.06
Percent of Floorspace Cooled										
Not Cooled	32	2,702	11.3	19.4	4.7	11.5	19.7	154.6	.65	.06
1 to 50	157	5,234	15.9	9.7	11.3	13.6	24.4	308.5	.94	.06
51 to 100	1,795	6,674	22.0	6.1	12.4	18.0	27.5	406.8	1.34	.06
Percent Lit When Open										
1 to 50	7	680	11.3	12.7	5.2	13.2	21.0	50.4	.84	.07
51 to 100	1,975	6,604	21.2	6.4	11.9	17.3	27.9	400.8	1.28	.06
No Operating Hours	3	2,739	18.6	6.8	18.6	18.6	18.6	135.9	.92	.05
Don't Know	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Percent Lit When Closed										
Not Lit	85	2,188	16.6	2.1	10.6	14.4	23.3	135.5	1.03	.06
1 to 50	1,143	5,890	19.7	6.0	11.8	17.5	28.3	401.5	1.34	.07
51 to 100	401	9,789	24.0	8.2	12.8	18.5	28.5	497.4	1.22	.05
No Off Hours	356	9,609	24.7	11.6	12.8	17.5	22.4	458.5	1.18	.05
Don't Know	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Heating Equipment (more than one may apply)										
Heat Pumps	210	6,378	20.6	7.9	13.2	16.3	23.0	337.2	1.09	.05
Furnaces	12	779	7.4	6.3	5.6	11.2	17.1	49.2	.46	.06
Individual Space Heaters	671	9,065	19.6	6.9	13.4	18.6	23.0	521.7	1.13	.06
District Heat	1,446	8,661	21.4	5.9	12.5	18.5	31.7	546.7	1.35	.06
Boilers	383	4,168	19.8	7.7	9.9	13.7	21.7	216.9	1.03	.05
Packaged-Heating Units	117	4,681	19.5	6.8	14.8	16.9	21.7	287.1	1.20	.06

See footnotes at end of table.

**Table 3.46. Electricity Consumption and Expenditure Intensities in
FBSS Buildings in Federal Region 3, 1993 (Continued)**

Building Characteristics	Electricity Consumption							Electricity Expenditures		
	Total (million kWh)	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			
Cooling Equipment (more than one may apply)										
Residential-Type Central A/C	417	13,890	21.8	3.2	10.5	15.1	17.6	1,031.4	1.62	0.07
Heat Pumps	217	5,862	19.0	7.7	10.6	15.1	23.0	339.2	1.10	.06
Individual A/C	494	6,169	17.6	3.5	11.4	15.6	21.0	393.6	1.12	.06
District Chilled Water	613	8,520	21.8	7.8	13.2	19.0	38.3	444.0	1.13	.05
Central Chillers	1,346	8,520	21.1	5.7	12.0	16.9	25.8	546.3	1.35	.06
Packaged-A/C Units	1,099	8,654	19.4	4.9	12.0	17.6	22.7	567.0	1.27	.07
Swamp Coolers	19	6,319	50.2	22.2	41.0	49.7	51.8	431.9	3.43	.07
Lighting Equipment (more than one may apply)										
Incandescent	1,400	7,607	21.5	6.7	11.8	17.2	31.6	460.6	1.30	.06
Standard Fluorescent	1,928	6,448	21.1	6.9	11.8	16.9	27.5	389.7	1.28	.06
Compact Fluorescent	1,000	12,501	20.2	5.5	11.5	16.5	23.2	787.1	1.27	.06
High-Intensity Discharge	1,135	10,321	21.9	5.2	13.4	18.6	28.3	564.6	1.20	.05
Electronic Ballast	1,288	9,610	19.9	5.9	12.4	16.8	23.4	612.7	1.27	.06
Water-Heating Equipment (more than one may apply)										
Centralized System	1,389	6,230	21.9	6.0	11.7	16.9	27.4	356.7	1.25	.06
Distributed System	452	6,453	18.8	6.9	12.8	18.7	27.5	491.9	1.44	.08
Don't Know/ Not Ascertained	125	13,834	25.1	12.0	12.8	21.8	42.7	576.2	1.04	.04
Commercial Refrigeration Equipment (more than one may apply)										
Any Equipment	1,370	12,689	22.5	5.8	12.9	19.4	33.0	780.3	1.38	.06
Walk-in Units	1,195	15,526	22.3	5.6	13.5	20.4	32.0	969.7	1.40	.06
Cases and Cabinets	1,217	14,149	23.1	8.9	13.1	20.3	33.4	885.4	1.44	.06
None	614	3,027	18.5	8.2	11.4	16.3	24.4	178.6	1.09	.06
Retrofit or Purchase of any Equipment Within Last Ten Years (more than one may apply)										
Retrofit and/or Purchase	1,613	7,074	20.0	5.6	11.9	16.7	24.1	447.9	1.27	.06
Retrofit	820	10,516	19.3	6.8	11.9	16.6	26.1	610.5	1.12	.06
Purchase	1,270	6,791	20.4	5.5	11.4	16.8	23.3	434.0	1.30	.06
No Retrofit or Purchase	372	4,482	27.4	14.5	11.5	18.8	38.2	221.8	1.35	.05
HVAC Conservation Features (more than one may apply)										
VAV System	791	9,536	21.5	5.9	12.8	18.1	28.3	518.0	1.17	.05
Economizer Cycle	1,382	8,862	22.6	5.8	12.4	18.1	25.5	506.3	1.29	.06
HVAC Maintenance	1,972	6,574	21.3	6.4	12.2	17.5	27.8	399.6	1.29	.06
Lighting Conservation Features (more than one may apply)										
Specular Reflectors	919	7,470	20.9	5.6	11.4	14.8	22.0	413.2	1.15	.06
Natural Lighting Control Sensors	322	11,087	18.1	6.6	10.6	15.8	18.8	882.7	1.44	.08
Occupancy Sensors	1,236	13,145	20.1	5.9	10.8	15.3	22.5	836.2	1.28	.06
Time Clock	947	12,791	20.3	5.7	11.9	16.3	23.4	808.3	1.28	.06
Manual Dimmer Switches	957	10,400	19.5	5.4	12.6	18.7	24.6	671.5	1.26	.06

See footnotes at end of table.

**Table 3.46. Electricity Consumption and Expenditure Intensities in
FBSS Buildings in Federal Region 3, 1993 (Continued)**

Building Characteristics	Electricity Consumption							Electricity Expenditures		
	Total (million kWh)	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			
Energy Management Practices (more than one may apply)										
Energy Management and Control System	1,325	10,112	21.7	5.6	12.2	17.6	26.2	615.5	1.32	0.06
Energy Conservation Programs ¹	1,177	12,015	20.1	5.6	11.8	15.7	21.7	790.7	1.32	.07
Energy Audit	776	7,835	20.6	8.4	11.4	15.1	23.4	439.4	1.16	.06
HVAC Maintenance Staff ²	1,092	11,262	20.6	5.0	13.5	18.8	28.6	741.3	1.36	.07
Off-Hours Reduction in Equipment (more than one may apply)										
Heating	785	5,451	17.9	7.2	11.3	15.8	22.4	390.8	1.28	.07
Cooling	785	5,412	17.9	7.2	11.4	15.9	22.7	389.1	1.29	.07
Hot Water	442	5,738	17.0	7.1	10.1	14.8	22.9	459.0	1.36	.08
Lighting	806	4,975	18.0	7.5	11.3	15.6	23.1	356.2	1.29	.07
Building Generates Electricity										
Yes	724	13,170	22.6	5.8	11.3	16.4	22.4	677.7	1.17	.05
No	1,260	4,924	20.3	6.8	11.9	17.9	27.8	325.2	1.34	.07

¹ Building participates in any programs sponsored by the Federal Energy Management Program, in-house, utility, or third party.

² HVAC maintenance staff means at least one person spends at least half their working hours maintaining the heating/cooling equipment.

Notes: • Total workers are the number of workers during the main shift. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • These data are from 881 federally owned buildings having the following criteria: (1) located in Federal Regions 3, 6, or 9; (2) larger than 10,000 square feet; and (3) used for a commercial purpose, other than warehouse and storage. In addition, 9 out of 10 selected buildings were from agencies other than the Department of Defense. • Statistics for the "energy end uses" represent consumption in buildings that have end use, not consumption for a particular fuel for a particular end use. • A/C = Air Conditioning. • FBSS = Federal Buildings Supplemental Survey. • HVAC = Heating, Ventilation, and Air Conditioning. • VAV = Variable-Air Volume. • KWH = Kilowatthour. • Data are for Fiscal Year 1993 (October 1, 1992 through September 30, 1993). • Because of rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, 1993 Federal Buildings Supplemental Survey.

**Table 3.47. Electricity Consumption and Expenditure Intensities in
FBSS Buildings in Federal Region 6, 1993**

Building Characteristics	Electricity Consumption							Electricity Expenditures		
	Total (million kWh)	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	975	4,013	27.2	12.0	11.1	16.8	35.3	210.4	1.43	0.05
Building Floorspace (square feet)										
10,000 to 50,000	79	738	30.5	13.3	11.0	15.3	31.9	36.6	1.51	.05
50,001 to 200,000	302	3,509	31.6	16.4	10.9	18.7	38.9	186.9	1.68	.05
Over 200,000	594	11,889	25.1	10.4	11.2	18.1	29.4	622.7	1.32	.05
Principal Building Activity										
Education	2	386	13.8	9.1	11.0	13.6	14.8	17.6	.63	.05
Health Care	219	6,255	18.1	10.5	13.0	17.7	25.0	346.2	1.00	.06
Laboratory	240	8,273	72.0	55.6	38.9	52.0	112.6	450.5	3.92	.05
Lodging	15	941	16.0	24.2	11.3	16.4	19.5	61.0	1.04	.06
Mercantile and Service	134	2,729	21.4	6.8	9.7	13.4	15.8	144.1	1.13	.05
Office	263	3,464	24.4	8.1	10.2	18.2	31.9	184.7	1.30	.05
All Others	102	3,189	45.4	32.4	9.3	20.4	98.9	117.5	1.67	.04
Year Constructed										
1959 or Before	391	3,801	29.5	15.6	10.9	15.4	31.5	170.2	1.32	.04
1960 to 1969	180	4,731	28.2	7.6	9.5	20.9	40.2	275.2	1.64	.06
1970 to 1979	188	5,542	30.5	12.7	12.8	18.8	42.8	252.5	1.39	.05
1980 to 1989	179	3,147	26.0	12.5	11.4	15.2	25.1	223.4	1.84	.07
1990 to 1993	36	3,295	11.7	9.6	9.6	13.4	34.6	165.0	.59	.05
Federal Agency										
Department of Defense	41	1,859	24.5	12.6	7.7	15.0	23.6	108.6	1.43	.06
General Services Administration ..	122	3,484	15.5	5.1	8.5	12.6	19.1	226.0	1.00	.06
United States Postal Service	145	2,377	20.6	6.9	9.7	13.5	16.3	127.4	1.11	.05
Veterans Administration	186	5,175	16.4	9.9	12.4	14.6	23.9	287.7	.91	.06
All Others	481	5,406	61.2	33.3	19.1	36.8	110.8	255.0	2.89	.05
Energy Sources (more than one may apply)										
Electricity	975	4,013	27.2	12.0	11.1	16.8	35.3	210.4	1.43	.05
Natural Gas	582	3,462	23.4	10.3	10.2	15.0	24.2	182.6	1.24	.05
Fuel Oil	90	5,009	19.0	6.0	13.0	20.5	32.5	311.4	1.18	.06
District Heat	435	6,399	32.4	17.7	12.8	29.4	42.4	337.2	1.71	.05
District Chilled Water	138	4,603	17.3	8.1	7.7	13.0	23.3	261.1	.98	.06
Propane	6	1,209	30.2	11.9	3.7	32.5	37.2	74.1	1.85	.06
Any Other	77	9,606	27.0	13.0	24.0	34.1	58.3	470.6	1.32	.05
Energy End Uses (more than one may apply)										
Heating	975	4,030	27.3	11.9	11.2	16.9	35.3	211.2	1.43	.05
Air Conditioning	957	3,972	27.1	11.9	11.2	16.8	34.9	208.9	1.43	.05
Water Heating	957	4,021	27.2	11.9	11.2	17.2	35.3	211.4	1.43	.05
Cooking	383	6,072	19.9	8.3	11.3	19.1	29.4	345.0	1.13	.06
Manufacturing	99	3,552	18.6	6.2	10.5	14.0	24.0	213.0	1.12	.06
Workers (main shift)										
Less than 50	111	1,585	43.5	75.9	9.7	15.7	36.2	65.6	1.80	.04
50 to 99	46	1,047	22.7	14.2	11.1	13.9	23.6	47.2	1.03	.05
100 to 499	316	3,945	35.0	19.2	10.7	20.0	36.6	216.2	1.92	.05
500 or More	503	10,257	22.6	8.3	12.5	18.9	34.9	554.2	1.22	.05
Weekly Operating Hours										
48 or Fewer	58	1,484	21.1	12.3	11.0	17.7	27.5	78.5	1.12	.05
49 to 60	93	2,019	14.4	6.5	8.6	15.2	30.5	124.9	.89	.06
61 to 167	390	5,006	48.5	20.0	10.6	16.8	110.8	232.1	2.25	.05
Open Continuously	434	5,426	23.4	10.1	12.4	17.7	29.4	302.7	1.30	.06

See footnotes at end of table.

**Table 3.47. Electricity Consumption and Expenditure Intensities in
FBSS Buildings in Federal Region 6, 1993 (Continued)**

Building Characteristics	Electricity Consumption							Electricity Expenditures		
	Total (million kWh)	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			
Multibuilding Facility										
Yes	731	4,937	29.9	13.9	13.1	23.0	41.8	252.9	1.53	.05
No	245	2,574	21.5	8.5	9.6	13.2	20.1	144.2	1.20	.06
Space-Heating Energy Source										
Electricity	360	5,450	36.5	13.6	12.5	16.8	38.8	227.9	1.53	.04
Electricity Main	121	3,896	26.0	8.6	13.3	16.8	32.4	202.3	1.35	.05
Electricity Secondary	239	6,826	45.8	19.2	9.7	16.9	108.5	250.6	1.68	.04
Other Excluding Electricity	615	3,497	23.8	11.2	10.8	17.6	33.1	205.0	1.39	.06
Building Not Heated	(*)	81	1.0	(¹)	1.0	1.0	1.0	5.9	.07	.07
Cooling Energy Source										
Electricity	850	3,880	30.3	12.7	11.4	17.4	35.8	202.0	1.58	.05
Other Excluding Electricity	108	4,893	14.9	8.1	7.7	12.8	20.4	276.9	.84	.06
A/C Not Performed	18	8,987	33.1	15.0	1.0	19.9	38.8	395.2	1.46	.04
Water-Heating Energy Source										
Electricity	285	4,595	23.2	9.2	9.5	14.5	31.9	244.7	1.24	.05
Other Excluding Electricity	672	3,819	29.3	13.6	12.4	19.0	35.6	199.7	1.53	.05
Water Heating Not Performed	18	3,659	30.7	14.3	1.9	5.0	13.9	162.7	1.37	.04
Cooking Energy Source										
Electricity	182	4,916	17.9	6.5	11.2	16.7	25.1	279.4	1.02	.06
Other Excluding Electricity	201	7,718	22.2	11.0	17.7	23.6	32.5	438.2	1.26	.06
Cooking Not Performed	593	3,293	35.7	16.8	10.3	15.2	36.7	163.3	1.77	.05
Manufacturing Energy Source										
Electricity	80	3,096	16.6	5.4	10.3	13.6	20.8	197.1	1.06	.06
Other Excluding Electricity	19	9,489	38.1	15.3	29.4	34.1	38.8	419.3	1.69	.04
Manufacturing Not Performed	876	4,073	28.7	13.4	11.2	17.4	35.8	210.0	1.48	.05
Percent of Floorspace Heated										
Not Heated	(*)	81	1.0	(¹)	1.0	1.0	1.0	5.9	.07	.07
1 to 50	22	2,013	17.2	10.1	8.2	13.5	21.0	119.9	1.02	.06
51 to 100	953	4,126	27.7	12.0	11.2	17.6	35.3	215.6	1.45	.05
Percent of Floorspace Cooled										
Not Cooled	18	6,021	32.6	13.4	1.0	8.2	38.8	265.6	1.44	.04
1 to 50	75	2,870	38.3	22.9	10.9	22.3	111.0	110.4	1.47	.04
51 to 100	883	4,124	26.5	11.5	11.2	16.1	32.4	221.8	1.42	.05
Percent Lit When Open										
1 to 50	18	1,228	17.4	14.4	8.7	11.4	21.0	71.4	1.01	.06
51 to 100	957	4,215	27.6	11.9	11.4	17.6	35.7	220.5	1.44	.05
No Operating Hours	(*)	81	1.0	(¹)	1.0	1.0	1.0	5.9	.07	.07
Don't Know	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Percent Lit When Closed										
Not Lit	34	1,025	12.6	5.6	7.5	13.9	16.9	64.8	.79	.06
1 to 50	693	4,202	33.8	15.5	12.0	19.1	38.9	218.1	1.76	.05
51 to 100	136	5,435	16.9	6.8	11.4	15.4	23.9	288.6	.90	.05
No Off Hours	112	5,611	24.4	10.3	11.6	19.4	30.4	289.2	1.26	.05
Don't Know	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Heating Equipment (more than one may apply)										
Heat Pumps	32	3,205	33.2	8.8	14.2	25.5	32.4	164.3	1.70	.05
Furnaces	11	610	13.9	7.9	6.8	14.9	19.1	35.0	.80	.06
Individual Space Heaters	124	4,121	22.9	6.9	8.7	12.8	29.4	349.3	1.94	.08
District Heat	457	5,572	30.1	16.0	13.0	21.0	38.9	295.2	1.59	.05
Boilers	420	4,120	25.1	10.0	10.8	18.2	36.1	213.7	1.30	.05
Packaged-Heating Units	199	3,371	26.3	10.1	9.8	14.8	25.0	194.3	1.51	.06

See footnotes at end of table.

**Table 3.47. Electricity Consumption and Expenditure Intensities in
FBSS Buildings in Federal Region 6, 1993 (Continued)**

Building Characteristics	Electricity Consumption							Electricity Expenditures		
	Total (million kWh)	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			
Cooling Equipment (more than one may apply)										
Residential-Type Central A/C	96	3,294	20.3	6.4	9.7	13.0	20.3	193.4	1.19	0.06
Heat Pumps	39	3,588	25.5	8.2	13.0	23.6	32.5	187.3	1.33	.05
Individual A/C	241	4,819	34.7	15.4	12.5	20.2	57.3	206.5	1.49	.04
District Chilled Water	191	4,349	17.6	8.7	9.7	14.6	28.6	315.8	1.28	.07
Central Chillers	608	4,986	28.2	11.0	12.4	18.8	38.9	247.2	1.40	.05
Packaged-A/C Units	338	3,481	23.9	9.0	10.9	15.2	24.2	191.6	1.32	.06
Swamp Coolers	39	3,221	19.2	10.6	11.2	16.1	31.0	162.6	.97	.05
Lighting Equipment (more than one may apply)										
Incandescent	686	5,083	33.9	13.3	11.4	20.1	42.8	255.5	1.70	.05
Standard Fluorescent	967	4,117	27.6	11.9	11.4	17.6	35.7	215.6	1.45	.05
Compact Fluorescent	142	4,910	17.9	7.2	10.6	14.8	20.4	320.5	1.17	.07
High-Intensity Discharge	518	8,088	32.0	12.6	12.3	20.3	107.6	356.5	1.41	.04
Electronic Ballast	279	4,727	17.6	7.1	9.9	15.0	23.9	272.3	1.01	.06
Water-Heating Equipment (more than one may apply)										
Centralized System	575	3,528	24.8	12.0	11.1	17.4	31.5	192.9	1.35	.05
Distributed System	375	5,283	31.7	11.8	11.9	16.8	46.4	261.0	1.57	.05
Don't Know/ Not Ascertained	7	1,687	35.9	9.7	9.4	22.9	93.0	86.1	1.83	.05
Commercial Refrigeration Equipment (more than one may apply)										
Any Equipment	408	5,821	22.7	10.2	13.0	23.9	36.1	372.7	1.46	.06
Walk-in Units	273	6,815	22.0	11.2	13.5	23.9	35.9	370.3	1.20	.05
Cases and Cabinets	275	6,240	19.4	8.8	12.6	19.7	29.4	345.7	1.08	.06
None	568	3,282	31.7	13.6	10.3	15.0	33.3	144.7	1.40	.04
Retrofit or Purchase of any Equipment Within Last Ten Years (more than one may apply)										
Retrofit and/or Purchase	627	3,872	21.6	9.0	10.8	15.2	24.0	211.3	1.18	.05
Retrofit	269	4,271	17.9	7.5	10.4	15.2	23.8	247.0	1.04	.06
Purchase	489	3,883	22.9	9.1	11.1	15.1	24.0	213.0	1.25	.05
No Retrofit or Purchase	348	4,295	51.2	29.0	11.9	26.7	108.5	208.6	2.48	.05
HVAC Conservation Features (more than one may apply)										
VAV System	417	6,410	22.5	10.5	12.2	17.7	32.5	353.2	1.24	.06
Economizer Cycle	644	5,232	27.3	12.0	12.3	18.9	38.1	243.6	1.27	.05
HVAC Maintenance	966	4,130	27.3	12.0	11.2	16.9	35.7	217.0	1.44	.05
Lighting Conservation Features (more than one may apply)										
Specular Reflectors	395	4,289	21.9	8.6	10.0	18.4	33.1	247.9	1.27	.06
Natural Lighting Control Sensors	104	3,865	15.5	9.2	10.6	16.7	21.7	223.6	.90	.06
Occupancy Sensors	315	5,433	19.2	7.2	10.1	14.5	23.9	306.1	1.08	.06
Time Clock	151	4,204	16.7	8.2	10.2	15.1	21.5	245.8	.98	.06
Manual Dimmer Switches	246	5,586	18.3	8.2	10.0	15.7	29.1	340.3	1.11	.06

See footnotes at end of table.

**Table 3.47. Electricity Consumption and Expenditure Intensities in
FBSS Buildings in Federal Region 6, 1993 (Continued)**

Building Characteristics	Electricity Consumption							Electricity Expenditures		
	Total (million kWh)	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			
Energy Management Practices (more than one may apply)										
Energy Management and Control System	459	4,780	19.9	9.2	10.4	15.1	25.0	273.9	1.14	0.06
Energy Conservation Programs ¹	259	5,399	19.2	7.1	12.7	17.9	28.9	307.7	1.09	.06
Energy Audit	242	3,785	20.7	7.1	11.2	15.0	23.9	232.6	1.27	.06
HVAC Maintenance Staff ²	291	5,112	18.8	8.5	9.5	13.3	21.7	298.3	1.09	.06
Off-Hours Reduction in Equipment (more than one may apply)										
Heating	226	1,836	17.2	7.3	9.5	13.7	23.6	138.5	1.29	.08
Cooling	236	1,907	17.1	7.1	9.5	13.8	23.4	142.0	1.27	.07
Hot Water	83	2,518	18.2	7.2	9.5	12.8	30.5	152.9	1.11	.06
Lighting	232	1,934	18.1	7.2	9.6	14.7	23.4	144.3	1.35	.07
Building Generates Electricity										
Yes	162	5,061	15.7	7.6	10.9	17.5	25.9	281.5	.87	.06
No	813	3,855	31.9	13.5	11.2	16.8	35.8	199.6	1.65	.05

¹ Data or computation error.

¹ Building participates in any programs sponsored by the Federal Energy Management Program, in-house, utility, or third party.

² HVAC maintenance staff means at least one person spends at least half their working hours maintaining the heating/cooling equipment.

NC = No cases in responding sample.

Notes: • Total workers are the number of workers during the main shift. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • These data are from 881 federally owned buildings having the following criteria: (1) located in Federal Regions 3, 6, or 9; (2) larger than 10,000 square feet; and (3) used for a commercial purpose, other than warehouse and storage. In addition, 9 out of 10 selected buildings were from agencies other than the Department of Defense. • Statistics for the "energy end uses" represent consumption in buildings that have end use, not consumption for a particular fuel for a particular end use. • A/C = Air Conditioning. • FBSS = Federal Buildings Supplemental Survey. • HVAC = Heating, Ventilation, and Air Conditioning. • VAV = Variable-Air Volume. • KWH = Kilowatthour. • Data are for Fiscal Year 1993 (October 1, 1992 through September 30, 1993). • Because of rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, 1993 Federal Buildings Supplemental Survey.

**Table 3.48. Electricity Consumption and Expenditure Intensities in
FBSS Buildings in Federal Region 9, 1993**

Building Characteristics	Electricity Consumption							Electricity Expenditures		
	Total (million kWh)	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	804	2,474	18.1	8.2	9.5	15.9	23.0	190.9	1.40	0.08
Building Floorspace (square feet)										
10,000 to 50,000	78	533	20.4	8.5	9.2	15.3	22.9	42.7	1.63	.08
50,001 to 200,000	269	2,190	21.2	10.4	9.8	19.1	24.4	165.7	1.61	.08
Over 200,000	456	8,296	16.4	7.3	8.5	13.0	18.0	643.1	1.27	.08
Principal Building Activity										
Education	6	512	9.8	9.6	1.4	3.8	8.8	31.0	.59	.06
Health Care	167	3,484	16.9	7.7	12.3	17.1	20.8	243.5	1.18	.07
Laboratory	94	3,041	36.2	24.8	20.2	26.6	47.6	229.5	2.74	.08
Lodging	14	640	11.5	21.6	2.9	13.7	18.7	53.6	.97	.08
Mercantile and Service	128	2,027	15.6	5.2	9.4	13.9	19.3	153.3	1.18	.08
Office	250	2,716	15.3	6.4	8.7	15.1	21.9	246.0	1.38	.09
All Others	145	2,538	26.9	19.5	10.1	18.5	25.3	164.7	1.75	.06
Year Constructed										
1959 or Before	280	2,173	20.7	11.6	8.3	17.1	24.4	167.8	1.60	.08
1960 to 1969	143	2,597	15.7	7.0	8.3	15.9	23.9	197.7	1.20	.08
1970 to 1979	201	3,240	16.7	6.9	9.5	15.0	20.4	268.7	1.38	.08
1980 to 1989	155	2,384	19.5	7.5	10.8	16.2	22.9	166.1	1.36	.07
1990 to 1993	25	1,784	14.8	8.0	13.7	17.0	24.1	147.1	1.22	.08
Federal Agency										
Department of Defense	187	2,426	22.1	13.5	6.6	13.0	18.7	186.2	1.69	.08
General Services Administration ..	144	3,698	11.5	5.0	7.2	10.6	16.2	339.5	1.06	.09
United States Postal Service	139	2,203	16.5	5.7	9.2	15.2	19.6	168.6	1.27	.08
Veterans Administration	150	2,682	17.0	7.7	14.4	18.3	21.8	193.7	1.23	.07
All Others	184	2,045	30.1	17.0	12.7	23.6	32.1	144.3	2.12	.07
Energy Sources (more than one may apply)										
Electricity	804	2,474	18.1	8.2	9.5	15.9	23.0	190.9	1.40	.08
Natural Gas	594	2,639	17.1	7.9	9.6	15.9	23.9	203.9	1.32	.08
Fuel Oil	222	4,103	19.9	9.7	12.0	17.1	31.4	321.5	1.56	.08
District Heat	194	2,657	16.5	8.4	12.3	17.2	20.7	198.0	1.23	.07
District Chilled Water	106	3,929	16.7	8.3	15.3	20.3	25.0	262.4	1.11	.07
Propane	26	2,633	23.6	12.2	.7	4.8	16.3	212.5	1.90	.08
Any Other	37	7,350	14.1	6.8	.8	14.2	14.4	526.8	1.01	.07
Energy End Uses (more than one may apply)										
Heating	752	2,481	17.9	8.5	9.5	16.0	23.4	193.9	1.40	.08
Air Conditioning	773	2,647	18.4	8.3	10.7	16.8	23.9	201.7	1.41	.08
Water Heating	778	2,478	18.1	8.3	9.4	16.0	23.4	189.3	1.38	.08
Cooking	348	4,967	17.3	7.5	9.1	14.6	19.8	349.3	1.22	.07
Manufacturing	157	5,245	20.5	8.9	12.3	15.8	23.0	372.5	1.45	.07
Workers (main shift)										
Less than 50	57	624	15.7	37.2	5.2	13.3	23.0	50.1	1.26	.08
50 to 99	51	1,051	23.8	14.1	9.5	16.2	24.3	80.9	1.83	.08
100 to 499	261	1,950	18.6	9.8	11.1	16.9	23.4	148.5	1.42	.08
500 or More	434	8,676	17.7	6.6	10.4	15.8	20.7	671.1	1.37	.08
Weekly Operating Hours										
48 or Fewer	74	927	15.4	9.8	7.8	14.8	24.4	66.5	1.10	.07
49 to 60	179	2,760	13.4	5.6	7.7	13.0	18.7	246.0	1.19	.09
61 to 167	102	1,504	17.9	9.6	9.3	15.7	23.4	123.8	1.48	.08
Open Continuously	448	4,001	22.0	9.5	12.0	18.5	24.3	288.4	1.59	.07

See footnotes at end of table.

**Table 3.48. Electricity Consumption and Expenditure Intensities in
FBSS Buildings in Federal Region 9, 1993 (Continued)**

Building Characteristics	Electricity Consumption							Electricity Expenditures		
	Total (million kWh)	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			
Multibuilding Facility										
Yes	486	2,440	18.1	8.6	9.7	15.9	22.9	179.2	1.33	0.07
No	318	2,527	18.2	7.8	9.1	16.0	24.2	209.2	1.51	.08
Space-Heating Energy Source										
Electricity	212	2,824	22.5	10.6	9.6	16.6	24.1	232.6	1.85	.08
Electricity Main	141	3,208	32.6	14.9	10.3	19.7	25.1	246.2	2.50	.08
Electricity Secondary	71	2,279	13.8	6.7	7.5	13.8	20.1	213.3	1.30	.09
Other Excluding Electricity	540	2,368	16.6	7.9	9.4	16.0	23.0	181.2	1.27	.08
Building Not Heated	52	2,373	21.8	5.9	8.3	12.7	19.5	148.3	1.36	.06
Cooling Energy Source										
Electricity	683	2,578	18.7	8.2	10.6	16.5	23.6	199.0	1.44	.08
Other Excluding Electricity	90	3,333	16.8	8.5	12.3	20.3	25.0	227.7	1.15	.07
A/C Not Performed	31	937	12.9	7.9	2.0	9.0	10.2	95.1	1.31	.10
Water-Heating Energy Source										
Electricity	189	2,911	26.2	10.3	8.0	13.1	21.1	214.5	1.93	.07
Other Excluding Electricity	589	2,365	16.5	7.8	10.1	16.5	23.8	182.7	1.27	.08
Water Heating Not Performed	26	2,345	19.4	7.6	9.7	10.6	20.8	235.3	1.94	.10
Cooking Energy Source										
Electricity	239	5,569	17.6	8.0	10.1	15.3	19.5	390.2	1.23	.07
Other Excluding Electricity	108	4,008	16.8	6.5	7.6	12.3	21.5	284.1	1.19	.07
Cooking Not Performed	456	1,789	18.8	8.9	9.6	16.6	23.9	147.4	1.55	.08
Manufacturing Energy Source										
Electricity	136	5,433	21.9	9.5	12.7	18.0	23.0	386.8	1.56	.07
Other Excluding Electricity	22	4,307	14.5	6.2	12.3	15.6	16.0	301.0	1.01	.07
Manufacturing Not Performed	647	2,192	17.7	8.1	9.2	15.9	23.2	172.4	1.39	.08
Percent of Floorspace Heated										
Not Heated	52	2,373	21.8	5.9	8.3	12.7	19.5	148.3	1.36	.06
1 to 50	109	3,879	29.0	20.9	3.8	19.8	25.6	295.1	2.20	.08
51 to 100	643	2,339	16.9	7.7	9.6	15.9	22.9	183.6	1.32	.08
Percent of Floorspace Cooled										
Not Cooled	40	1,032	13.7	9.7	2.0	9.0	13.5	96.2	1.28	.09
1 to 50	136	2,464	18.6	9.4	10.2	15.3	19.2	168.2	1.27	.07
51 to 100	628	2,719	18.4	8.0	11.1	17.6	24.3	212.2	1.44	.08
Percent Lit When Open										
1 to 50	21	1,072	11.6	11.7	1.1	11.2	17.2	78.0	.84	.07
51 to 100	782	2,579	18.5	8.2	9.8	16.2	23.4	199.3	1.43	.08
No Operating Hours	(*)	3	.1	NC	.1	.1	.1	.1	(*)	.03
Don't Know	1	982	15.3	31.7	15.3	15.3	15.3	83.7	1.30	.09
Percent Lit When Closed										
Not Lit	33	935	19.7	15.8	6.6	13.4	24.3	72.3	1.52	.08
1 to 50	374	1,834	14.8	6.9	9.2	15.2	20.9	149.7	1.21	.08
51 to 100	160	3,645	19.8	9.0	12.6	21.6	41.6	275.3	1.49	.08
No Off Hours	236	5,751	25.7	10.2	10.6	17.3	22.1	408.8	1.82	.07
Don't Know	1	982	15.3	31.7	15.3	15.3	15.3	83.7	1.30	.09
Heating Equipment (more than one may apply)										
Heat Pumps	68	1,705	22.1	9.4	11.4	19.4	24.1	134.2	1.74	.08
Furnaces	16	624	13.0	5.6	8.2	12.7	17.8	51.8	1.07	.08
Individual Space Heaters	82	2,480	16.6	7.5	9.1	13.0	19.8	203.5	1.36	.08
District Heat	237	3,380	18.6	9.8	12.0	16.3	20.3	227.5	1.25	.07
Boilers	421	2,884	17.5	7.8	10.1	17.5	24.4	232.8	1.42	.08
Packaged-Heating Units	102	1,528	17.1	7.6	9.5	15.3	24.4	108.5	1.21	.07

See footnotes at end of table.

**Table 3.48. Electricity Consumption and Expenditure Intensities in
FBSS Buildings in Federal Region 9, 1993 (Continued)**

Building Characteristics	Electricity Consumption							Electricity Expenditures		
	Total (million kWh)	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			
Cooling Equipment (more than one may apply)										
Residential-Type Central A/C	34	1,404	17.7	6.9	9.1	14.3	20.6	104.4	1.32	0.07
Heat Pumps	63	1,958	23.0	11.1	12.9	20.5	30.2	156.5	1.84	.08
Individual A/C	100	1,932	17.6	8.4	10.1	17.0	19.7	153.7	1.40	.08
District Chilled Water	170	5,484	22.2	11.6	15.3	19.5	22.5	332.5	1.35	.06
Central Chillers	499	3,589	18.0	7.4	11.5	17.8	24.4	278.4	1.40	.08
Packaged-A/C Units	416	2,756	17.3	6.9	11.4	17.0	24.4	214.3	1.35	.08
Swamp Coolers	43	1,430	13.6	5.0	6.6	11.4	18.7	111.0	1.05	.08
Lighting Equipment (more than one may apply)										
Incandescent	354	2,201	17.3	8.4	9.0	16.9	24.4	170.1	1.34	.08
Standard Fluorescent	763	2,478	17.8	8.0	9.4	15.9	22.9	187.1	1.35	.08
Compact Fluorescent	296	4,118	17.1	8.1	9.4	17.5	23.9	344.1	1.43	.08
High-Intensity Discharge	329	4,390	17.6	7.6	8.5	14.4	21.5	312.0	1.25	.07
Electronic Ballast	392	3,736	16.8	7.2	10.6	16.2	23.4	291.0	1.31	.08
Water-Heating Equipment (more than one may apply)										
Centralized System	507	2,262	16.3	7.6	9.1	15.9	22.8	178.1	1.28	.08
Distributed System	240	2,994	22.3	9.7	9.9	15.2	24.4	217.4	1.62	.07
Don't Know/ Not Ascertained	32	3,182	27.3	11.2	16.6	22.2	32.3	216.0	1.85	.07
Commercial Refrigeration Equipment (more than one may apply)										
Any Equipment	346	5,494	18.4	7.9	10.5	16.2	21.8	381.7	1.28	.07
Walk-in Units	233	5,289	18.6	8.2	12.4	17.2	24.2	367.5	1.29	.07
Cases and Cabinets	248	4,967	16.6	7.1	12.0	16.2	22.0	385.0	1.29	.08
None	458	1,747	17.9	8.5	9.2	15.9	23.4	145.0	1.49	.08
Retrofit or Purchase of any Equipment Within Last Ten Years (more than one may apply)										
Retrofit and/or Purchase	611	2,881	17.7	7.6	9.9	16.1	22.4	229.7	1.41	.08
Retrofit	346	3,356	15.3	6.3	9.7	14.4	20.9	267.9	1.22	.08
Purchase	415	2,824	21.2	9.3	11.4	16.5	23.4	224.1	1.68	.08
No Retrofit or Purchase	193	1,710	19.8	11.1	8.3	15.9	24.4	117.9	1.36	.07
HVAC Conservation Features (more than one may apply)										
VAV System	292	3,900	18.8	8.6	12.6	17.3	24.4	296.9	1.43	.08
Economizer Cycle	431	3,078	16.3	7.2	10.4	16.1	23.9	241.0	1.28	.08
HVAC Maintenance	787	2,581	18.3	8.2	9.7	16.3	23.4	198.9	1.41	.08
Lighting Conservation Features (more than one may apply)										
Specular Reflectors	332	2,697	15.2	6.6	10.6	16.2	23.0	210.3	1.19	.08
Natural Lighting Control Sensors	186	3,213	13.5	5.4	9.8	15.6	19.8	268.1	1.13	.08
Occupancy Sensors	446	4,092	17.7	7.6	11.1	17.8	24.0	316.8	1.37	.08
Time Clock	141	3,433	13.4	5.8	8.6	14.4	17.8	261.0	1.02	.08
Manual Dimmer Switches	269	3,443	18.6	8.7	12.0	18.1	25.0	264.1	1.43	.08

See footnotes at end of table.

**Table 3.48. Electricity Consumption and Expenditure Intensities in
FBSS Buildings in Federal Region 9, 1993 (Continued)**

Building Characteristics	Electricity Consumption							Electricity Expenditures		
	Total (million kWh)	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			
Energy Management Practices (more than one may apply)										
Energy Management and Control System	372	5,232	20.4	8.9	12.6	19.6	29.9	359.1	1.40	0.07
Energy Conservation Programs ¹	448	3,643	18.2	8.1	10.4	16.2	23.9	272.1	1.36	.07
Energy Audit	328	3,345	18.8	8.6	9.8	15.6	25.0	249.0	1.40	.07
HVAC Maintenance Staff ²	244	4,685	16.7	6.9	9.8	17.7	23.3	348.6	1.24	.07
Off-Hours Reduction in Equipment (more than one may apply)										
Heating	270	1,785	13.7	6.5	8.2	13.8	20.9	148.3	1.14	.08
Cooling	262	1,668	13.6	6.3	8.3	14.4	20.8	137.6	1.12	.08
Hot Water	174	2,564	12.8	5.6	7.4	13.3	24.1	223.9	1.12	.09
Lighting	293	1,706	13.9	6.5	8.2	14.4	22.5	141.8	1.15	.08
Building Generates Electricity										
Yes	351	6,745	24.6	12.7	13.4	20.4	39.8	511.7	1.86	.08
No	453	1,660	15.1	6.5	9.0	15.3	22.1	129.7	1.18	.08

¹ Building participates in any programs sponsored by the Federal Energy Management Program, in-house, utility, or third party.

² HVAC maintenance staff means at least one person spends at least half their working hours maintaining the heating/cooling equipment.

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

NC = No cases in responding sample.

Notes: • Total workers are the number of workers during the main shift. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • These data are from 881 federally owned buildings having the following criteria: (1) located in Federal Regions 3, 6, or 9; (2) larger than 10,000 square feet; and (3) used for a commercial purpose, other than warehouse and storage. In addition, 9 out of 10 selected buildings were from agencies other than the Department of Defense. • Statistics for the "energy end uses" represent consumption in buildings that have end use, not consumption for a particular fuel for a particular end use. • A/C = Air Conditioning. • FBSS = Federal Buildings Supplemental Survey. • HVAC = Heating, Ventilation, and Air Conditioning. • VAV = Variable-Air Volume. • KWH = Kilowatthour. • Data are for Fiscal Year 1993 (October 1, 1992 through September 30, 1993). • Because of rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, 1993 Federal Buildings Supplemental Survey.