

**Table 3.28. Lighting Equipment in FBSS Buildings in Federal Region 3,
Number of Buildings, 1993**

Building Characteristics	All Buildings	Lighting Equipment Types (more than one may apply)				
		Incandescent	Standard Fluorescent	Compact Fluorescent	High-Intensity Discharge	Electronic Ballast
All Buildings	312	184	300	80	111	135
Building Floorspace (square feet)						
10,000 to 50,000	94	49	91	12	16	22
50,001 to 200,000	117	69	112	19	42	44
Over 200,000	101	66	97	49	53	69
Principal Building Activity						
Education	8	7	8	2	NC	NC
Health Care	41	28	40	9	10	24
Laboratory	37	30	36	2	13	11
Lodging	13	9	12	1	1	4
Mercantile and Service	46	18	44	7	25	9
Office	124	72	121	52	44	77
All Others	43	20	39	7	18	10
Year Constructed						
1959 or Before	142	94	133	34	37	64
1960 to 1969	70	49	68	18	26	31
1970 to 1979	47	19	47	15	25	19
1980 to 1989	38	17	37	10	18	14
1990 to 1993	15	5	15	3	5	7
Federal Agency						
Department of Defense	22	15	21	4	4	6
General Services Administration ...	83	44	80	44	32	57
United States Postal Service	57	23	54	7	33	10
Veterans Administration	56	37	54	9	10	29
All Others	94	65	91	16	32	33
Workers (main shift)						
Less than 50	71	36	67	6	14	13
50 to 99	39	23	37	5	8	8
100 to 499	107	65	104	24	36	47
500 or More	95	60	92	45	53	67
Weekly Operating Hours						
48 or Fewer	51	28	51	8	9	18
49 to 60	76	45	73	27	27	47
61 to 167	60	30	57	21	25	21
Open Continuously	125	81	119	24	50	49
Percent Window Glass						
50 or Less	269	163	258	64	100	113
51 to 100	42	20	41	15	10	22
Don't Know	1	1	1	1	1	NC
Multibuilding Facility						
Yes	176	109	171	35	59	73
No	136	75	129	45	52	62
Percent Lit When Open						
1 to 50	11	5	10	3	NC	3
51 to 100	300	179	290	77	111	132
No Operating Hours	1	NC	NC	NC	NC	NC
Don't Know	NC	NC	NC	NC	NC	NC

See footnotes at end of table.

**Table 3.28. Lighting Equipment in FBSS Buildings in Federal Region 3,
Number of Buildings, 1993 (Continued)**

Building Characteristics	All Buildings	Lighting Equipment Types (more than one may apply)				
		Incandescent	Standard Fluorescent	Compact Fluorescent	High-Intensity Discharge	Electronic Ballast
Percent Lit When Closed						
Not Lit	39	18	37	6	12	10
1 to 50	194	113	189	58	67	93
51 to 100	42	29	40	7	20	19
No Off Hours	37	24	34	9	12	13
Don't Know	NC	NC	NC	NC	NC	NC
Lighting Conservation Features (more than one may apply)						
Specular Reflectors	124	76	120	43	46	72
Natural Lighting Control Sensors	29	20	29	17	15	23
Occupancy Sensors	95	57	94	51	41	68
Time Clock	74	48	73	35	31	46
Manual Dimmer Switches	93	73	90	47	37	62
Energy Management Practices (more than one may apply)						
Energy Management and Control System	132	77	130	43	59	82
Energy Conservation Programs ¹	99	64	97	44	37	66
Energy Audit	99	60	98	31	36	53
HVAC Maintenance Staff ²	97	61	94	33	41	57
Off-Hours Reduction in Equipment (more than one may apply)						
Heating	144	80	142	50	51	75
Cooling	145	84	141	51	51	76
Hot Water	77	43	76	32	27	39
Lighting	162	90	157	51	50	76

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. • FBSS = Federal Buildings Supplemental Survey.

• HVAC = Heating, Ventilation, and Air Conditioning. • 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 3.29. Lighting Equipment in FBSS Buildings in Federal Region 6,
Number of Buildings, 1993**

Building Characteristics	All Buildings	Lighting Equipment Types (more than one may apply)				
		Incandescent	Standard Fluorescent	Compact Fluorescent	High-Intensity Discharge	Electronic Ballast
All Buildings	243	135	235	29	64	59
Building Floorspace (square feet)						
10,000 to 50,000	107	42	103	7	17	15
50,001 to 200,000	86	62	83	5	19	22
Over 200,000	50	31	49	17	28	22
Principal Building Activity						
Education	6	2	6	1	2	1
Health Care	35	20	35	5	9	16
Laboratory	29	21	28	1	10	1
Lodging	16	9	15	NC	1	4
Mercantile and Service	49	22	48	5	15	9
Office	76	43	75	17	19	23
All Others	32	18	28	NC	8	5
Year Constructed						
1959 or Before	103	67	98	13	23	23
1960 to 1969	38	25	37	7	13	14
1970 to 1979	34	17	34	4	14	11
1980 to 1989	57	22	55	4	13	9
1990 to 1993	11	4	11	1	1	2
Federal Agency						
Department of Defense	22	12	20	1	6	3
General Services Administration ...	35	21	34	15	12	19
United States Postal Service	61	28	59	6	16	10
Veterans Administration	36	14	35	2	6	19
All Others	89	60	87	5	24	8
Workers (main shift)						
Less than 50	70	29	66	3	10	7
50 to 99	44	22	43	2	8	7
100 to 499	80	53	77	9	19	23
500 or More	49	31	49	15	27	22
Weekly Operating Hours						
48 or Fewer	39	18	37	4	5	10
49 to 60	46	22	45	11	9	10
61 to 167	78	47	76	6	26	14
Open Continuously	80	48	77	8	24	25
Percent Window Glass						
50 or Less	204	103	196	25	44	51
51 to 100	16	10	16	4	4	8
Don't Know	23	22	23	NC	16	NC
Multibuilding Facility						
Yes	148	93	144	15	39	35
No	95	42	91	14	25	24
Percent Lit When Open						
1 to 50	15	9	14	NC	1	1
51 to 100	227	126	221	29	63	58
No Operating Hours	1	NC	NC	NC	NC	NC
Don't Know	NC	NC	NC	NC	NC	NC

See footnotes at end of table.

**Table 3.29. Lighting Equipment in FBSS Buildings in Federal Region 6,
Number of Buildings, 1993 (Continued)**

Building Characteristics	All Buildings	Lighting Equipment Types (more than one may apply)				
		Incandescent	Standard Fluorescent	Compact Fluorescent	High-Intensity Discharge	Electronic Ballast
Percent Lit When Closed						
Not Lit	33	10	30	4	11	8
1 to 50	165	97	162	21	38	34
51 to 100	25	18	25	4	10	9
No Off Hours	20	10	18	NC	5	8
Don't Know	NC	NC	NC	NC	NC	NC
Lighting Conservation Features (more than one may apply)						
Specular Reflectors	92	44	89	16	24	39
Natural Lighting Control						
Sensors	27	13	26	8	12	16
Occupancy Sensors	58	29	56	17	20	34
Time Clock	36	18	35	9	14	18
Manual Dimmer Switches	44	26	41	16	11	20
Energy Management Practices (more than one may apply)						
Energy Management and Control						
System	96	52	92	18	29	34
Energy Conservation						
Programs ¹	48	25	47	8	16	21
Energy Audit	64	27	60	10	16	22
HVAC Maintenance Staff ²	57	35	56	15	19	25
Off-Hours Reduction in Equipment (more than one may apply)						
Heating	123	57	119	21	23	30
Cooling	124	58	121	21	22	31
Hot Water	33	14	33	7	9	10
Lighting	120	61	117	19	21	33

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. • FBSS = Federal Buildings Supplemental Survey. • HVAC = Heating, Ventilation, and Air Conditioning. • 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 3.30. Lighting Equipment in FBSS Buildings in Federal Region 9,
Number of Buildings, 1993**

Building Characteristics	All Buildings	Lighting Equipment Types (more than one may apply)				
		Incandescent	Standard Fluorescent	Compact Fluorescent	High-Intensity Discharge	Electronic Ballast
All Buildings	326	161	309	73	75	105
Building Floorspace (square feet)						
10,000 to 50,000	148	73	140	16	20	33
50,001 to 200,000	123	68	117	35	30	45
Over 200,000	55	20	52	22	25	27
Principal Building Activity						
Education	12	9	12	NC	4	1
Health Care	48	20	48	4	6	19
Laboratory	31	21	29	16	4	7
Lodging	22	15	19	2	2	2
Mercantile and Service	63	28	61	11	27	21
Office	92	37	88	34	14	40
All Others	58	31	52	6	18	15
Year Constructed						
1959 or Before	130	70	124	27	27	34
1960 to 1969	55	28	54	13	9	21
1970 to 1979	62	27	56	19	16	27
1980 to 1989	65	31	62	11	20	21
1990 to 1993	14	5	13	3	3	2
Federal Agency						
Department of Defense	78	33	73	9	19	14
General Services Administration ...	39	11	37	29	10	26
United States Postal Service	63	28	61	11	22	22
Veterans Administration	56	19	55	4	7	24
All Others	90	70	83	20	17	19
Workers (main shift)						
Less than 50	93	54	83	10	17	14
50 to 99	49	22	48	7	10	15
100 to 499	134	67	129	35	25	46
500 or More	50	18	49	21	23	30
Weekly Operating Hours						
48 or Fewer	80	40	73	5	15	12
49 to 60	65	23	64	28	15	32
61 to 167	68	34	65	10	19	27
Open Continuously	113	64	107	30	26	34
Percent Window Glass						
50 or Less	298	150	284	58	72	90
51 to 100	26	11	25	15	3	15
Don't Know	2	NC	NC	NC	NC	NC
Multibuilding Facility						
Yes	200	103	189	41	46	64
No	126	58	120	32	29	41
Percent Lit When Open						
1 to 50	20	11	18	1	2	1
51 to 100	304	150	291	72	73	104
No Operating Hours	1	NC	NC	NC	NC	NC
Don't Know	1	NC	NC	NC	NC	NC

See footnotes at end of table.

**Table 3.30. Lighting Equipment in FBSS Buildings in Federal Region 9,
Number of Buildings, 1993 (Continued)**

Building Characteristics	All Buildings	Lighting Equipment Types (more than one may apply)				
		Incandescent	Standard Fluorescent	Compact Fluorescent	High-Intensity Discharge	Electronic Ballast
Percent Lit When Closed						
Not Lit	35	10	33	3	6	10
1 to 50	205	107	197	46	45	71
51 to 100	44	32	41	22	9	11
No Off Hours	41	12	38	2	15	13
Don't Know	1	NC	NC	NC	NC	NC
Lighting Conservation Features (more than one may apply)						
Specular Reflectors	124	59	119	42	31	59
Natural Lighting Control						
Sensors	58	21	57	23	17	33
Occupancy Sensors	109	54	108	55	30	51
Time Clock	41	25	40	20	16	24
Manual Dimmer Switches	78	54	76	29	19	35
Energy Management Practices (more than one may apply)						
Energy Management and Control						
System	71	34	69	24	25	31
Energy Conservation						
Programs ¹	124	64	119	43	34	63
Energy Audit	99	48	95	24	24	45
HVAC Maintenance Staff ²	52	27	52	20	17	28
Off-Hours Reduction in Equipment (more than one may apply)						
Heating	151	71	142	40	30	60
Cooling	157	73	149	37	32	56
Hot Water	68	30	62	26	11	31
Lighting	172	80	164	38	36	65

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. • FBSS = Federal Buildings Supplemental Survey. • HVAC = Heating, Ventilation, and Air Conditioning. • 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 3.31. Lighting Equipment in FBSS Building in Federal Region 3,
Floorspace, 1993**
(Thousand Square Feet)

Building Characteristics	All Buildings	Lighting Equipment Types (more than one may apply)				
		Incandescent	Standard Fluorescent	Compact Fluorescent	High-Intensity Discharge	Electronic Ballast
All Buildings	94,880	64,981	91,986	49,455	52,593	65,560
Building Floorspace (square feet)						
10,000 to 50,000	2,564	1,398	2,494	349	368	640
50,001 to 200,000	13,166	7,539	12,661	2,180	5,287	5,285
Over 200,000	79,149	56,045	76,831	46,925	46,938	59,634
Principal Building Activity						
Education	598	571	598	162	NC	NC
Health Care	14,559	10,992	14,412	7,501	8,509	11,161
Laboratory	5,165	4,603	5,112	1,162	2,654	2,555
Lodging	2,558	2,431	2,508	31	375	364
Mercantile and Service	7,966	2,821	6,851	1,433	7,031	2,168
Office	56,881	40,025	55,892	36,601	30,658	45,520
All Others	7,152	3,538	6,613	2,565	3,366	3,791
Year Constructed						
1959 or Before	43,829	32,805	42,104	23,915	23,514	33,695
1960 to 1969	19,564	13,197	18,595	7,637	6,697	10,765
1970 to 1979	17,737	11,535	17,737	12,283	14,377	13,909
1980 to 1989	8,975	5,688	8,775	4,537	6,424	5,163
1990 to 1993	4,774	1,756	4,774	1,082	1,581	2,027
Federal Agency						
Department of Defense	13,988	13,431	13,938	10,688	11,155	10,819
General Services Administration ...	46,205	29,825	44,977	30,330	21,578	36,094
United States Postal Service	9,392	3,693	8,256	1,153	8,637	2,918
Veterans Administration	13,306	8,926	12,959	5,291	5,702	9,535
All Others	11,989	9,106	11,856	1,993	5,522	6,194
Workers (main shift)						
Less than 50	4,102	1,741	3,593	365	1,166	814
50 to 99	1,903	1,203	1,833	236	412	310
100 to 499	13,632	8,871	13,377	3,870	5,702	6,753
500 or More	75,243	53,166	73,183	44,983	45,313	57,682
Weekly Operating Hours						
48 or Fewer	9,694	6,878	9,694	4,841	2,164	5,933
49 to 60	25,540	17,434	24,519	13,371	12,454	22,383
61 to 167	11,993	7,802	11,922	8,519	8,062	8,530
Open Continuously	47,653	32,867	45,851	22,724	29,913	28,714
Percent Window Glass						
50 or Less	79,002	54,231	76,558	38,208	46,067	53,692
51 to 100	14,878	9,750	14,428	10,247	5,526	11,867
Don't Know	1,000	1,000	1,000	1,000	1,000	NC
Multibuilding Facility						
Yes	43,861	28,586	42,321	18,115	24,187	27,847
No	51,018	36,395	49,665	31,339	28,406	37,713
Percent Lit When Open						
1 to 50	663	229	643	291	NC	266
51 to 100	94,070	64,752	91,343	49,163	52,593	65,293
No Operating Hours	147	NC	NC	NC	NC	NC
Don't Know	NC	NC	NC	NC	NC	NC
Percent Lit When Closed						
Not Lit	5,149	2,079	4,039	1,708	3,311	2,244
1 to 50	57,953	36,667	56,880	28,192	26,092	40,357
51 to 100	17,412	13,955	17,161	10,197	14,864	13,725
No Off Hours	14,366	12,280	13,906	9,357	8,325	9,234
Don't Know	NC	NC	NC	NC	NC	NC

See footnotes at end of table.

**Table 3.31. Lighting Equipment in FBSS Building in Federal Region 3,
Floorspace, 1993 (Continued)**
(Thousand Square Feet)

Building Characteristics	All Buildings	Lighting Equipment Types (more than one may apply)				
		Incandescent	Standard Fluorescent	Compact Fluorescent	High- Intensity Discharge	Electronic Ballast
Lighting Conservation Features (more than one may apply)						
Specular Reflectors	44,741	32,688	44,126	27,412	24,739	36,255
Natural Lighting Control Sensors	17,743	15,216	17,743	14,476	9,237	16,076
Occupancy Sensors	62,261	45,486	61,742	43,991	37,666	52,610
Time Clock	46,555	39,907	46,036	36,171	29,709	39,466
Manual Dimmer Switches	49,824	42,097	49,259	37,377	28,905	43,797
Energy Management Practices (more than one may apply)						
Energy Management and Control System	61,891	42,602	60,750	33,756	35,944	46,236
Energy Conservation Programs ¹	59,284	42,505	58,634	37,128	32,936	48,576
Energy Audit	37,621	28,368	37,421	21,471	22,966	30,043
HVAC Maintenance Staff ²	52,924	39,568	51,125	30,245	29,904	40,191
Off-Hours Reduction in Equipment (more than one may apply)						
Heating	43,828	29,832	42,859	26,438	21,851	35,668
Cooling	43,757	30,067	42,742	26,261	21,774	35,491
Hot Water	26,018	19,184	25,499	17,164	10,462	20,798
Lighting	44,717	30,343	43,678	26,105	21,391	35,670

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. • FBSS = Federal Buildings Supplemental Survey. • HVAC = Heating, Ventilation, and Air Conditioning. • 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 3.32. Lighting Equipment in FBSS Buildings in Federal Region 6,
Floorspace, 1993**
(Thousand Square Feet)

Building Characteristics	All Buildings	Lighting Equipment Types (more than one may apply)				
		Incandescent	Standard Fluorescent	Compact Fluorescent	High-Intensity Discharge	Electronic Ballast
All Buildings	35,816	20,248	35,057	7,942	16,188	15,861
Building Floorspace (square feet)						
10,000 to 50,000	2,591	1,099	2,478	164	406	440
50,001 to 200,000	9,548	7,017	9,146	602	2,343	2,620
Over 200,000	23,677	12,133	23,433	7,175	13,439	12,801
Principal Building Activity						
Education	168	43	168	18	53	55
Health Care	12,094	4,168	12,094	2,076	5,304	8,444
Laboratory	3,331	2,639	3,087	256	1,323	50
Lodging	942	607	783	NC	21	432
Mercantile and Service	6,236	3,927	6,192	671	4,060	1,299
Office	10,799	7,256	10,637	4,920	4,915	5,247
All Others	2,247	1,608	2,096	NC	512	334
Year Constructed						
1959 or Before	13,258	9,746	12,831	3,350	5,968	5,886
1960 to 1969	6,386	5,302	6,225	1,938	2,989	2,891
1970 to 1979	6,175	1,749	6,175	2,087	4,716	2,400
1980 to 1989	6,903	3,338	6,731	546	2,493	1,972
1990 to 1993	3,095	114	3,095	19	23	2,711
Federal Agency						
Department of Defense	1,668	665	1,612	633	992	165
General Services Administration ...	7,888	4,809	7,727	4,719	4,068	5,053
United States Postal Service	7,027	4,607	6,970	897	4,169	1,435
Veterans Administration	11,375	3,669	11,216	1,339	4,552	8,628
All Others	7,858	6,499	7,532	354	2,407	580
Workers (main shift)						
Less than 50	2,548	1,601	2,397	48	506	319
50 to 99	2,026	1,016	1,867	124	263	588
100 to 499	9,029	6,640	8,580	1,145	2,964	2,371
500 or More	22,213	10,992	22,213	6,625	12,456	12,582
Weekly Operating Hours						
48 or Fewer	2,740	1,280	2,497	174	361	1,046
49 to 60	6,460	2,878	6,447	2,968	2,314	1,834
61 to 167	8,051	6,731	7,995	1,783	4,117	2,472
Open Continuously	18,565	9,359	18,118	3,016	9,396	10,508
Percent Window Glass						
50 or Less	29,836	16,321	29,076	6,021	12,127	13,265
51 to 100	3,429	1,390	3,429	1,920	1,920	2,596
Don't Know	2,552	2,538	2,552	NC	2,141	NC
Multibuilding Facility						
Yes	24,441	14,792	23,933	4,014	9,206	10,340
No	11,375	5,457	11,124	3,927	6,983	5,521
Percent Lit When Open						
1 to 50	1,062	744	1,049	NC	183	75
51 to 100	34,672	19,505	34,008	7,942	16,005	15,786
No Operating Hours	82	NC	NC	NC	NC	NC
Don't Know	NC	NC	NC	NC	NC	NC
Percent Lit When Closed						
Not Lit	2,691	1,147	2,424	1,201	1,496	724
1 to 50	20,495	13,218	20,406	5,814	8,833	7,195
51 to 100	8,029	4,121	8,029	927	3,308	5,239
No Off Hours	4,601	1,763	4,199	NC	2,552	2,702
Don't Know	NC	NC	NC	NC	NC	NC

See footnotes at end of table.

**Table 3.32. Lighting Equipment in FBSS Buildings in Federal Region 6,
Floorspace, 1993 (Continued)**
(Thousand Square Feet)

Building Characteristics	All Buildings	Lighting Equipment Types (more than one may apply)				
		Incandescent	Standard Fluorescent	Compact Fluorescent	High- Intensity Discharge	Electronic Ballast
Lighting Conservation Features (more than one may apply)						
Specular Reflectors	18,017	9,240	17,664	4,173	7,863	11,662
Natural Lighting Control						
Sensors	6,740	2,524	6,581	2,025	2,658	5,669
Occupancy Sensors	16,435	8,859	16,114	4,909	8,217	11,542
Time Clock	9,037	3,236	8,878	2,875	3,191	6,225
Manual Dimmer Switches	13,454	6,641	13,249	4,457	4,567	8,110
Energy Management Practices (more than one may apply)						
Energy Management and Control System	23,099	10,360	22,511	6,385	11,491	12,411
Energy Conservation Programs ¹	13,513	6,777	13,480	3,388	6,805	9,798
Energy Audit	11,690	5,719	11,251	4,430	6,194	5,856
HVAC Maintenance Staff ²	15,538	7,664	15,376	4,995	6,374	9,417
Off-Hours Reduction in Equipment (more than one may apply)						
Heating	13,162	7,434	12,932	4,926	4,639	4,923
Cooling	13,864	7,837	13,657	4,926	4,615	5,246
Hot Water	4,554	2,503	4,554	1,780	2,266	1,387
Lighting	12,847	7,991	12,640	4,892	4,577	5,342

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. • FBSS = Federal Buildings Supplemental Survey. • HVAC = Heating, Ventilation, and Air Conditioning. • 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 3.33. Lighting Equipment in FBSS Buildings in Federal Region 9,
Floorspace, 1993**
(Thousand Square Feet)

Building Characteristics	All Buildings	Lighting Equipment Types (more than one may apply)				
		Incandescent	Standard Fluorescent	Compact Fluorescent	High-Intensity Discharge	Electronic Ballast
All Buildings	44,316	20,475	42,850	17,339	18,736	23,307
Building Floorspace (square feet)						
10,000 to 50,000	3,858	1,864	3,663	415	562	1,032
50,001 to 200,000	12,680	7,322	12,228	4,155	3,503	5,236
Over 200,000	27,778	11,289	26,960	12,769	14,671	17,038
Principal Building Activity						
Education	628	450	628	NC	262	85
Health Care	9,903	4,574	9,903	2,484	2,472	4,961
Laboratory	2,601	1,960	2,527	1,592	213	631
Lodging	1,220	667	897	83	62	73
Mercantile and Service	8,194	3,716	8,111	859	6,475	4,237
Office	16,380	6,522	15,725	11,151	5,590	10,762
All Others	5,390	2,586	5,060	1,170	3,662	2,558
Year Constructed						
1959 or Before	13,553	6,594	12,818	4,673	4,693	6,824
1960 to 1969	9,082	4,486	9,027	5,204	3,997	5,592
1970 to 1979	12,041	5,426	11,622	4,454	5,379	7,411
1980 to 1989	7,955	3,097	7,842	2,750	3,741	3,241
1990 to 1993	1,684	870	1,541	258	926	239
Federal Agency						
Department of Defense	8,489	2,849	7,866	2,943	3,537	2,868
General Services Administration ...	12,505	4,354	12,165	10,436	5,024	9,527
United States Postal Service	8,387	3,827	8,304	1,001	6,229	4,292
Veterans Administration	8,824	4,269	8,681	1,043	2,615	5,302
All Others	6,111	5,175	5,834	1,916	1,330	1,318
Workers (main shift)						
Less than 50	3,684	2,242	2,945	719	930	753
50 to 99	2,161	1,100	2,142	437	604	705
100 to 499	14,017	7,305	13,540	4,446	3,734	5,095
500 or More	24,454	9,828	24,223	11,738	13,468	16,753
Weekly Operating Hours						
48 or Fewer	4,822	2,719	4,276	454	1,172	955
49 to 60	13,424	4,499	13,369	9,532	5,133	9,185
61 to 167	5,706	3,301	5,558	1,877	2,905	3,217
Open Continuously	20,364	9,955	19,647	5,476	9,526	9,950
Percent Window Glass						
50 or Less	37,432	18,276	36,105	12,394	16,372	17,762
51 to 100	6,800	2,199	6,745	4,945	2,363	5,545
Don't Know	84	NC	NC	NC	NC	NC
Multibuilding Facility						
Yes	26,821	14,046	26,038	8,337	10,972	12,980
No	17,495	6,429	16,812	9,002	7,763	10,327
Percent Lit When Open						
1 to 50	1,847	931	1,260	78	69	123
51 to 100	42,375	19,543	41,590	17,261	18,667	23,184
No Operating Hours	29	NC	NC	NC	NC	NC
Don't Know	64	NC	NC	NC	NC	NC
Percent Lit When Closed						
Not Lit	1,664	222	1,600	317	417	701
1 to 50	25,288	12,656	24,667	12,447	9,589	14,273
51 to 100	8,109	4,994	7,801	3,640	2,615	2,684
No Off Hours	9,190	2,603	8,781	935	6,115	5,648
Don't Know	64	NC	NC	NC	NC	NC

See footnotes at end of table.

**Table 3.33. Lighting Equipment in FBSS Buildings in Federal Region 9,
Floorspace, 1993 (Continued)**
(Thousand Square Feet)

Building Characteristics	All Buildings	Lighting Equipment Types (more than one may apply)				
		Incandescent	Standard Fluorescent	Compact Fluorescent	High-Intensity Discharge	Electronic Ballast
Lighting Conservation Features (more than one may apply)						
Specular Reflectors	21,850	9,554	21,637	12,265	8,640	13,517
Natural Lighting Control						
Sensors	13,760	4,011	13,617	7,935	6,074	8,258
Occupancy Sensors	25,245	11,469	25,180	15,083	12,036	16,127
Time Clock	10,539	6,482	10,484	7,210	6,584	6,656
Manual Dimmer Switches	14,455	10,224	14,371	7,795	6,245	7,293
Energy Management Practices (more than one may apply)						
Energy Management and Control System	18,231	7,727	17,903	7,441	10,875	11,378
Energy Conservation Programs ¹	24,699	11,924	24,511	13,891	10,570	16,181
Energy Audit	17,444	9,157	16,789	6,254	9,828	12,008
HVAC Maintenance Staff ²	14,570	8,130	14,570	8,282	6,651	8,859
Off-Hours Reduction in Equipment (more than one may apply)						
Heating	19,631	9,172	19,015	11,608	6,905	12,166
Cooling	19,219	8,636	18,599	10,787	6,834	11,521
Hot Water	13,614	5,154	13,155	9,541	4,876	9,004
Lighting	21,155	9,503	20,567	11,605	7,825	12,556

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. • FBSS = Federal Buildings Supplemental Survey. • HVAC = Heating, Ventilation, and Air Conditioning. • 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.