

**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
<b>All Buildings</b> .....	<b>312</b>	<b>184</b>	<b>300</b>	<b>80</b>	<b>111</b>	<b>135</b>
<b>Building Floorspace (square feet)</b>						
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
<b>Principal Building Activity</b>						
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
<b>Year Constructed</b>						
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
<b>Federal Agency</b>						
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
<b>Workers (main shift)</b>						
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
<b>Weekly Operating Hours</b>						
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
<b>Percent Window Glass</b>						
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
<b>Multibuilding Facility</b>						
Yes .....	176	109	171	35	59	73
No .....	136	75	129	45	52	62
<b>Percent Lit When Open</b>						
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
<b>Percent Lit When Closed</b>						
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
<b>Lighting Conservation Features (more than one may apply)</b>						
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
<b>Energy Management Practices (more than one may apply)</b>						
Energy Management and Control System .....	132	77	130	43	59	82
Energy Conservation Programs <sup>1</sup> .....	99	64	97	44	37	66
Energy Audit .....	99	60	98	31	36	53
HVAC Maintenance Staff <sup>2</sup> .....	97	61	94	33	41	57
<b>Off-Hours Reduction in Equipment (more than one may apply)</b>						
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

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

<sup>2</sup> 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
<b>All Buildings</b> .....	<b>243</b>	<b>135</b>	<b>235</b>	<b>29</b>	<b>64</b>	<b>59</b>
<b>Building Floorspace (square feet)</b>						
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
<b>Principal Building Activity</b>						
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
<b>Year Constructed</b>						
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
<b>Federal Agency</b>						
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
<b>Workers (main shift)</b>						
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
<b>Weekly Operating Hours</b>						
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
<b>Percent Window Glass</b>						
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
<b>Multibuilding Facility</b>						
Yes .....	148	93	144	15	39	35
No .....	95	42	91	14	25	24
<b>Percent Lit When Open</b>						
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	
<b>Percent Lit When Closed</b>							
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	
<b>Lighting Conservation Features (more than one may apply)</b>							
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	
<b>Energy Management Practices (more than one may apply)</b>							
Energy Management and Control System .....	96	52	92	18	29	34	
Energy Conservation Programs <sup>1</sup> .....	48	25	47	8	16	21	
Energy Audit .....	64	27	60	10	16	22	
HVAC Maintenance Staff <sup>2</sup> .....	57	35	56	15	19	25	
<b>Off-Hours Reduction in Equipment (more than one may apply)</b>							
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	

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

<sup>2</sup> 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
<b>All Buildings</b> .....	<b>326</b>	<b>161</b>	<b>309</b>	<b>73</b>	<b>75</b>	<b>105</b>
<b>Building Floorspace (square feet)</b>						
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
<b>Principal Building Activity</b>						
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
<b>Year Constructed</b>						
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
<b>Federal Agency</b>						
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
<b>Workers (main shift)</b>						
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
<b>Weekly Operating Hours</b>						
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
<b>Percent Window Glass</b>						
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
<b>Multibuilding Facility</b>						
Yes .....	200	103	189	41	46	64
No .....	126	58	120	32	29	41
<b>Percent Lit When Open</b>						
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	
<b>Percent Lit When Closed</b>							
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	
<b>Lighting Conservation Features (more than one may apply)</b>							
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	
<b>Energy Management Practices (more than one may apply)</b>							
Energy Management and Control System .....	71	34	69	24	25	31	
Energy Conservation Programs <sup>1</sup> .....	124	64	119	43	34	63	
Energy Audit .....	99	48	95	24	24	45	
HVAC Maintenance Staff <sup>2</sup> .....	52	27	52	20	17	28	
<b>Off-Hours Reduction in Equipment (more than one may apply)</b>							
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	

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

<sup>2</sup> 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
<b>All Buildings</b> .....	<b>94,880</b>	<b>64,981</b>	<b>91,986</b>	<b>49,455</b>	<b>52,593</b>	<b>65,560</b>
<b>Building Floorspace (square feet)</b>						
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
<b>Principal Building Activity</b>						
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
<b>Year Constructed</b>						
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
<b>Federal Agency</b>						
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
<b>Workers (main shift)</b>						
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
<b>Weekly Operating Hours</b>						
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
<b>Percent Window Glass</b>						
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
<b>Multibuilding Facility</b>						
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
<b>Percent Lit When Open</b>						
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
<b>Percent Lit When Closed</b>						
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
<b>Lighting Conservation Features (more than one may apply)</b>						
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
<b>Energy Management Practices (more than one may apply)</b>						
Energy Management and Control System .....	61,891	42,602	60,750	33,756	35,944	46,236
Energy Conservation Programs <sup>1</sup> .....	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 <sup>2</sup> .....	52,924	39,568	51,125	30,245	29,904	40,191
<b>Off-Hours Reduction in Equipment (more than one may apply)</b>						
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

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

<sup>2</sup> 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
<b>All Buildings</b> .....	<b>35,816</b>	<b>20,248</b>	<b>35,057</b>	<b>7,942</b>	<b>16,188</b>	<b>15,861</b>
<b>Building Floorspace (square feet)</b>						
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
<b>Principal Building Activity</b>						
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
<b>Year Constructed</b>						
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
<b>Federal Agency</b>						
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
<b>Workers (main shift)</b>						
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
<b>Weekly Operating Hours</b>						
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
<b>Percent Window Glass</b>						
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
<b>Multibuilding Facility</b>						
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
<b>Percent Lit When Open</b>						
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
<b>Percent Lit When Closed</b>						
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
<b>Lighting Conservation Features (more than one may apply)</b>						
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
<b>Energy Management Practices (more than one may apply)</b>						
Energy Management and Control System .....	23,099	10,360	22,511	6,385	11,491	12,411
Energy Conservation Programs <sup>1</sup> .....	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 <sup>2</sup> .....	15,538	7,664	15,376	4,995	6,374	9,417
<b>Off-Hours Reduction in Equipment (more than one may apply)</b>						
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

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

<sup>2</sup> 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
<b>All Buildings</b> .....	<b>44,316</b>	<b>20,475</b>	<b>42,850</b>	<b>17,339</b>	<b>18,736</b>	<b>23,307</b>
<b>Building Floorspace (square feet)</b>						
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
<b>Principal Building Activity</b>						
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
<b>Year Constructed</b>						
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
<b>Federal Agency</b>						
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
<b>Workers (main shift)</b>						
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
<b>Weekly Operating Hours</b>						
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
<b>Percent Window Glass</b>						
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
<b>Multibuilding Facility</b>						
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
<b>Percent Lit When Open</b>						
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
<b>Percent Lit When Closed</b>						
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
<b>Lighting Conservation Features (more than one may apply)</b>						
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
<b>Energy Management Practices (more than one may apply)</b>						
Energy Management and Control System .....	18,231	7,727	17,903	7,441	10,875	11,378
Energy Conservation Programs <sup>1</sup> .....	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 <sup>2</sup> .....	14,570	8,130	14,570	8,282	6,651	8,859
<b>Off-Hours Reduction in Equipment (more than one may apply)</b>						
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

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

<sup>2</sup> 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.