Table 3.52. District Heat Consumption and Expenditure Intensities in FBSS Buildings in Federal Region 3, 1993

		District Heat	Consumption		District Heat Expenditures			
Building Characteristics	Total (million pounds)	per Building (thousand pounds)	per Square foot (pounds)	per Worker (thousand pounds)	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Pound (dollars)	
All Buildings	3,015	19,577	47.11	12.5	241.6	0.58	12.34	
Building Floorspace (square								
feet)								
10,000 to 50,000	187	6,034	195.10	119.6	56.2	1.82	9.32	
50,001 to 200,000	805	12,786	115.92	60.9	138.1	1.25	10.80	
Over 200,000	2,022	33,707	36.06	8.9	446.2	.48	13.24	
Principal Building Activity								
Education	19	4,754	72.05	48.5	55.7	.84	11.72	
Health Care	422	20,091	50.04	31.7	208.0	.52	10.35	
Laboratory	765	26,372	217.10	130.6	292.3	2.41	11.08	
Lodging	37	5,326	76.24	83.8	64.3	.92	12.07	
Mercantile and Service	69	23,105	33.16	2.1	283.6	.41	12.27	
Office	1,372	19,883	31.08	7.9	275.0	.43	13.83	
All Others	331	15,747	65.43	23.4	184.2	.77	11.70	
Year Constructed								
1959 or Before	1,500	18,992	43.45	8.6	228.9	.52	12.05	
	954					.80		
		19,865	63.78	26.5	250.6		12.62	
1970 to 1979	244	22,214	27.09	10.2	355.4	.43	16.00	
1980 to 1989	197	19,678	78.56	44.4	170.4	.68	8.66	
1990 to 1993	120	19,987	40.21	32.3	247.6	.50	12.39	
Federal Agency								
Department of Defense	462	35,532	39.22	11.3	558.3	.62	15.71	
General Services Administration .	1,009	21,476	29.05	7.1	294.9	.40	13.73	
United States Postal Service	42	20,837	32.06	1.4	261.9	.40	12.57	
Veterans Administration	407	14,520	68.33	49.6	146.5	.69	10.09	
All Others	1,095	17,115	107.26	53.3	179.2	1.12	10.47	
Energy Sources (more than one								
may apply)								
Electricity	3,015	19,577	47.11	12.5	241.6	.58	12.34	
Natural Gas	1,337	34,290	37.97	7.6	476.7	.53	13.90	
Fuel Oil	749	39,431	32.81	11.7	599.0	.50	15.19	
District Heat	3,015	19,577	47.11	12.5	241.6	.58	12.34	
District Chilled Water	1,273	22,731	55.62	19.8	289.3	.71	12.73	
Propane	40	19,769	59.28	52.7	173.6	.52	8.78	
Any Other	70	23,281	22.00	8.1	174.9	.17	7.51	
Energy End Uses (more than								
one may apply)	2.015	10.522	47.11	10.5	241.6	<b>50</b>	10.0	
Heating	3,015	19,577	47.11	12.5	241.6	.58	12.34	
Air Conditioning	3,011	19,683	47.08	12.5	242.9	.58	12.34	
Water Heating	3,001	19,742	47.33	12.5	243.5	.58	12.33	
Cooking	1,834	32,757	36.26	8.7	431.1	.48	13.16	
Manufacturing	845	42,260	43.59	10.5	536.9	.55	12.70	
Workers (main shift)				_				
Less than 50	190	6,118	97.49	242.8	58.6	.93	9.57	
50 to 99	130	7,240	138.75	106.3	70.1	1.34	9.68	
100 to 499 500 or More	791 1,904	15,818 34,620	118.23 34.99	66.5 8.4	176.2 460.4	1.32 .47	11.14 13.30	
	1,204	57,020	34.27	0.7	700.4	.+/	15.50	
Weekly Operating Hours 48 or Fewer	354	11,798	51.57	22.1	123.3	.54	10.45	
49 to 60	754	15 7 IX	17 / 1					
49 to 60	754 249	15,718 13,816	35.71 38.52	13.5 16.6	224.1 146.3	.51 41	14.26 10.59	
49 to 60	754 249 1,658	15,718 13,816 28,583	38.52 56.12	16.6 10.7	146.3 347.0	.41 .68	10.59 12.14	

See footnotes at end of table.

Table 3.52. District Heat Consumption and Expenditure Intensities in FBSS Buildings in Federal Region 3, 1993 (Continued)

Building Characteristics		District Heat	Consumption	District Heat Expenditures			
	Total (million pounds)	per Building (thousand pounds)	per Square foot (pounds)	per Worker (thousand pounds)	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Pound (dollars)
HVAC Conservation Features							
more than one may apply)							
VAV System	814	21,434	38.85	8.8	277.7	0.50	12.96
Economizer Cycle	1,819	23,326	43.17	9.5	300.8	.56	12.89
HVAC Maintenance	2,983	19,755	47.09	12.4	244.1	.58	12.35
Energy Management Practices							
more than one may apply)							
Energy Management and Control							
System	1,583	22,609	38.59	8.5	284.6	.49	12.59
Energy Conservation							
Programs 1	1,533	26,898	32.90	8.5	366.2	.45	13.62
Energy Audit	1,071	19,836	41.50	15.3	257.4	.54	12.98
HVAC Maintenance Staff <sup>2</sup>	1,491	27,101	40.07	8.0	383.7	.57	14.16
Off-Hours Reduction in							
Equipment (more than one may							
apply)							
Heating	1,160	15,468	35.82	13.8	198.6	.46	12.84
Cooling	1,162	15,284	35.84	13.8	196.1	.46	12.83
Hot Water	718	17,090	39.04	15.6	215.0	.49	12.58
Lighting	1,235	15,063	37.98	15.6	191.6	.48	12.72
Building Generates Electricity							
Yes	1.017	29.044	41.37	9.1	364.2	.52	12.54
No	1,998	16,793	50.70	15.4	205.6	.62	12.24

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

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

<sup>&</sup>lt;sup>2</sup> 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. • FBSS = Federal Buildings Supplemental Survey. • HVAC = Heating, Ventilation, and Air Conditioning. • VAV = Variable-Air Volume. • Data are for Fiscal Year 1993 (October 1, 1992 through September 30, 1993). • Because of rounding, data may not sum to totals.

Table 3.53. District Heat Consumption and Expenditure Intensities in FBSS Buildings in Federal Region 6, 1993

Building Characteristics  All Buildings  Building Floorspace (square feet)  10,000 to 50,000  50,001 to 200,000  Over 200,000  Principal Building Activity  Education Health Care Laboratory Lodging Mercantile and Service Office All Others  Year Constructed 1959 or Before 1960 to 1969 1970 to 1979 1980 to 1989 1990 to 1993  Federal Agency Department of Defense General Services Administration United States Postal Service Veterans Administration All Others  Energy Sources (more than one	70tal million ounds)  982  95 392 495  5 271 463 24 (*) 151 67  570 105 56 191	per Building (thousand pounds) 14,439 4,525 12,639 30,938 2,676 18,077 27,242 4,892 2 8,362 6,723	per Square foot (pounds) 73.07 164.13 105.24 54.19 152.90 40.07 194.80 85.13 .01 55.54 62.15	per Worker (thousand pounds)  40.0  117.6 50.4 31.0  118.9 24.9 140.6 95.9 (*) 17.5	per Building (thousand dollars) 156.2 46.9 138.9 333.4 18.8 175.7 318.7 58.4	per Square Foot (dollars) 0.79 1.70 1.16 .58	per Thousand Pound (dollars) 10.82 10.36 10.99 10.78 7.04 9.72 11.70
Building Floorspace (square feet) 10,000 to 50,000 50,001 to 200,000 Over 200,000  Principal Building Activity Education Health Care Laboratory Lodging Mercantile and Service Office All Others  Year Constructed 1959 or Before 1960 to 1969 1970 to 1979 1980 to 1989 1990 to 1993  Federal Agency Department of Defense General Services Administration United States Postal Service Veterans Administration All Others  Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil	95 392 495 5 271 463 24 (*) 151 67 570 105 56	4,525 12,639 30,938 2,676 18,077 27,242 4,892 2 8,362 6,723	164.13 105.24 54.19 152.90 40.07 194.80 85.13 .01 55.54	117.6 50.4 31.0 118.9 24.9 140.6 95.9 (*)	46.9 138.9 333.4 18.8 175.7 318.7 58.4	1.70 1.16 .58 1.08 .39 2.28	10.36 10.99 10.78 7.04 9.72
50,001 to 200,000 Over 200,000  Principal Building Activity Education Health Care Laboratory Lodging Mercantile and Service Office All Others  Year Constructed 1959 or Before 1960 to 1969 1970 to 1979 1980 to 1989 1990 to 1993  Federal Agency Department of Defense General Services Administration United States Postal Service Veterans Administration All Others  Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil	392 495 5 271 463 24 (*) 151 67 570 105 56	12,639 30,938 2,676 18,077 27,242 4,892 2 8,362 6,723	105.24 54.19 152.90 40.07 194.80 85.13 .01 55.54	50.4 31.0 118.9 24.9 140.6 95.9 (*)	138.9 333.4 18.8 175.7 318.7 58.4	1.16 .58 1.08 .39 2.28	10.99 10.78 7.04 9.72
feet) 10,000 to 50,000 50,001 to 200,000 Over 200,000 Over 200,000  Principal Building Activity Education Health Care Laboratory Lodging Mercantile and Service Office All Others  Year Constructed 1959 or Before 1960 to 1969 1970 to 1979 1980 to 1989 1990 to 1993  Federal Agency Department of Defense General Services Administration United States Postal Service Veterans Administration All Others  Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil	392 495 5 271 463 24 (*) 151 67 570 105 56	12,639 30,938 2,676 18,077 27,242 4,892 2 8,362 6,723	105.24 54.19 152.90 40.07 194.80 85.13 .01 55.54	50.4 31.0 118.9 24.9 140.6 95.9 (*)	138.9 333.4 18.8 175.7 318.7 58.4	1.16 .58 1.08 .39 2.28	10.99 10.78 7.04 9.72
50,001 to 200,000 Over 200,000  Principal Building Activity Education Health Care Laboratory Lodging Mercantile and Service Office All Others  Year Constructed 1959 or Before 1960 to 1969 1970 to 1979 1980 to 1989 1990 to 1993  Federal Agency Department of Defense General Services Administration United States Postal Service Veterans Administration All Others  Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil	392 495 5 271 463 24 (*) 151 67 570 105 56	12,639 30,938 2,676 18,077 27,242 4,892 2 8,362 6,723	105.24 54.19 152.90 40.07 194.80 85.13 .01 55.54	50.4 31.0 118.9 24.9 140.6 95.9 (*)	138.9 333.4 18.8 175.7 318.7 58.4	1.16 .58 1.08 .39 2.28	10.99 10.78 7.04 9.72
Over 200,000  Principal Building Activity Education Health Care Laboratory Lodging Mercantile and Service Office All Others  Year Constructed 1959 or Before 1960 to 1969 1970 to 1979 1980 to 1989 1990 to 1993  Federal Agency Department of Defense General Services Administration United States Postal Service Veterans Administration All Others  Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil	5 271 463 24 (*) 151 67 570 105 56	30,938 2,676 18,077 27,242 4,892 2 8,362 6,723	54.19 152.90 40.07 194.80 85.13 .01 55.54	31.0 118.9 24.9 140.6 95.9 (*)	333.4 18.8 175.7 318.7 58.4	1.08 .39 2.28	7.04 9.72
Principal Building Activity  Education Health Care Laboratory Lodging Mercantile and Service Office All Others  Year Constructed 1959 or Before 1960 to 1969 1970 to 1979 1980 to 1989 1990 to 1993  Federal Agency Department of Defense General Services Administration United States Postal Service Veterans Administration All Others  Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil	5 271 463 24 (*) 151 67 570 105 56	2,676 18,077 27,242 4,892 2 8,362 6,723	152.90 40.07 194.80 85.13 .01 55.54	118.9 24.9 140.6 95.9 (*)	18.8 175.7 318.7 58.4	1.08 .39 2.28	7.04 9.72
Education Health Care Laboratory Lodging Mercantile and Service Office All Others  Year Constructed 1959 or Before 1960 to 1969 1970 to 1979 1980 to 1989 1990 to 1993  Federal Agency Department of Defense General Services Administration United States Postal Service Veterans Administration All Others  Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil	271 463 24 (*) 151 67 570 105 56	18,077 27,242 4,892 2 8,362 6,723	40.07 194.80 85.13 .01 55.54	24.9 140.6 95.9 (*)	175.7 318.7 58.4	.39 2.28	9.72
Health Care Laboratory Lodging Mercantile and Service Office All Others  Year Constructed 1959 or Before 1960 to 1969 1970 to 1979 1980 to 1989 1990 to 1993  Federal Agency Department of Defense General Services Administration United States Postal Service Veterans Administration All Others  Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil	271 463 24 (*) 151 67 570 105 56	18,077 27,242 4,892 2 8,362 6,723	40.07 194.80 85.13 .01 55.54	24.9 140.6 95.9 (*)	175.7 318.7 58.4	.39 2.28	9.72
Health Care Laboratory Lodging Mercantile and Service Office All Others  Year Constructed 1959 or Before 1960 to 1969 1970 to 1979 1980 to 1989 1990 to 1993  Federal Agency Department of Defense General Services Administration United States Postal Service Veterans Administration All Others  Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil	271 463 24 (*) 151 67 570 105 56	18,077 27,242 4,892 2 8,362 6,723	40.07 194.80 85.13 .01 55.54	24.9 140.6 95.9 (*)	318.7 58.4	2.28	
Laboratory Lodging Mercantile and Service Office All Others  Year Constructed 1959 or Before 1960 to 1969 1970 to 1979 1980 to 1989 1990 to 1993  Federal Agency Department of Defense General Services Administration United States Postal Service Veterans Administration All Others  Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil	463 24 (*) 151 67 570 105 56	27,242 4,892 2 8,362 6,723	194.80 85.13 .01 55.54	140.6 95.9 (*)	318.7 58.4	2.28	
Lodging Mercantile and Service Office All Others  Year Constructed 1959 or Before 1960 to 1969 1970 to 1979 1980 to 1989 1990 to 1993  Federal Agency Department of Defense General Services Administration United States Postal Service Veterans Administration All Others  Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil	24 (*) 151 67 570 105 56	4,892 2 8,362 6,723	85.13 .01 55.54	95.9 (*)	58.4		11.70
Mercantile and Service Office All Others  Year Constructed 1959 or Before 1960 to 1969 1970 to 1979 1980 to 1989 1990 to 1993  Federal Agency Department of Defense General Services Administration United States Postal Service Veterans Administration All Others  Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil	(*) 151 67 570 105 56	2 8,362 6,723	.01 55.54	(*)		1.02	11.94
Office All Others  Year Constructed  1959 or Before  1960 to 1969  1970 to 1979  1980 to 1989  1990 to 1993  Federal Agency Department of Defense General Services Administration United States Postal Service Veterans Administration All Others  Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil	151 67 570 105 56	8,362 6,723 12,950	55.54		(*)	(*)	12.50
All Others  Year Constructed  1959 or Before 1960 to 1969 1970 to 1979 1980 to 1989 1990 to 1993  Federal Agency Department of Defense General Services Administration United States Postal Service Veterans Administration All Others  Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil	570 105 56	6,723		17.5	92.3	.61	11.04
1959 or Before 1960 to 1969 1970 to 1979 1980 to 1989 1990 to 1993  Federal Agency Department of Defense General Services Administration United States Postal Service Veterans Administration All Others  Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil	105 56	,		70.5	57.9	.54	8.61
1959 or Before 1960 to 1969 1970 to 1979 1980 to 1989 1990 to 1993  Federal Agency Department of Defense General Services Administration United States Postal Service Veterans Administration All Others  Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil	105 56	,					
1960 to 1969 1970 to 1979 1980 to 1989 1990 to 1993  Federal Agency Department of Defense General Services Administration United States Postal Service Veterans Administration All Others  Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil	105 56	,	98.54	50.2	140.9	1.07	10.88
1970 to 1979 1980 to 1989 1990 to 1993  Federal Agency Department of Defense General Services Administration United States Postal Service Veterans Administration All Others  Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil	56	15,026	102.66	36.4	169.0	1.15	11.25
1980 to 1989 1990 to 1993  Federal Agency Department of Defense General Services Administration United States Postal Service Veterans Administration All Others  Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil							
1990 to 1993	191	14,012	57.43	15.8	116.6	.48	8.32
Federal Agency Department of Defense		17,362	65.95	45.9	188.1	.71	10.83
Department of Defense General Services Administration United States Postal Service Veterans Administration All Others  Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil	60	29,909	21.69	23.1	352.5	.26	11.78
General Services Administration United States Postal Service Veterans Administration All Others  Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil							
United States Postal Service  Veterans Administration  All Others  Energy Sources (more than one may apply)  Electricity  Natural Gas  Fuel Oil	14	4,687	57.04	27.6	28.4	.35	6.05
Veterans Administration All Others  Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil	44	8,724	38.67	14.3	103.6	.46	11.87
All Others	(*)	2	.01	(*)	(*)	(*)	12.50
Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil	286	15,053	41.14	25.9	146.1	.40	9.71
may apply) Electricity Natural Gas Fuel Oil	638	15,953	129.38	67.6	181.1	1.47	11.35
Electricity Natural Gas Fuel Oil							
Natural GasFuel Oil							
Fuel Oil	982	14,439	73.07	40.0	156.2	.79	10.82
	222	14,786	41.55	24.4	142.6	.40	9.64
District Heat	63	8,971	59.38	24.8	88.7	.59	9.89
	982	14,439	73.07	40.0	156.2	.79	10.82
District Chilled Water	343	12,688	46.70	21.9	133.2	.49	10.50
Propane	7	3,659	308.31	122.0	13.9	1.17	3.81
Any Other	58	19,307	47.21	31.3	181.1	.44	9.38
Energy End Uses (more than							
one may apply)	000	14 420	50.05	40.0	1550	70	10.00
Heating	982	14,439	73.07	40.0	156.2	.79	10.82
Air Conditioning	982	14,439	73.07	40.0	156.2	.79	10.82
Water Heating	982	14,439	73.07	40.0	156.2	.79	10.82
Cooking	264	15,551	39.46	23.2	145.9	.37	9.38
Manufacturing	13	3,210	53.79	40.8	21.5	.36	6.71
Workers (main shift)							
Less than 50	97	4,633	91.20	204.8	50.3	.99	10.86
50 to 99	27	5,471	146.86	70.0	65.3	1.75	11.93
100 to 499	494 363	18,310 24,188	121.45 44.72	75.8 21.2	202.2 252.1	1.34 .47	11.04 10.42
	505	27,100	77.12	21.2	232.1	.+/	10.42
Weekly Operating Hours 48 or Fewer	106	10,583	103.08	132.1	117.2	1.14	11.08
49 to 60	232	11,579	82.25	41.6	113.1	.80	9.77
61 to 167	325	17,103	104.44	47.6	202.2	1.23	11.82
Open Continuously		16,815	49.28	28.2	176.2	.52	10.48

See footnotes at end of table.

Table 3.53. District Heat Consumption and Expenditure Intensities in FBSS Buildings in Federal Region 6, 1993 (Continued)

Building Characteristics		District Heat	Consumption	District Heat Expenditures			
	Total (million pounds)	per Building (thousand pounds)	per Square foot (pounds)	per Worker (thousand pounds)	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Pound (dollars)
HVAC Conservation Features							
(more than one may apply)							
VAV System	393	16,388	47.64	28.4	167.9	0.49	10.24
Economizer Cycle	555	15,409	58.61	34.1	157.7	.60	10.23
HVAC Maintenance	979	14,612	72.98	39.9	158.0	.79	10.82
Energy Management Practices (more than one may apply)							
Energy Management and Control System Energy Conservation	610	16,955	64.26	35.6	176.4	.67	10.40
Programs 1	194	17,672	38.63	18.9	168.7	.37	9.55
Energy Audit	69	13.806	50.17	16.7	125.7	.46	9.10
HVAC Maintenance Staff <sup>2</sup>	195	16,235	33.38	19.8	171.2	.35	10.54
Off-Hours Reduction in							
Equipment (more than one may							
apply)							
Heating	387	13,361	88.47	46.6	140.6	.93	10.52
Cooling	408	13,613	85.40	43.1	144.2	.90	10.59
Hot Water	77	8,526	52.16	17.6	84.5	.52	9.91
Lighting	363	11,706	93.25	42.4	134.0	1.07	11.45
Building Generates Electricity							
Yes	154	19,291	32.86	25.4	199.8	.34	10.36
No	828	13,792	94.68	44.8	150.4	1.03	10.91

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

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. • VAV = Variable-Air Volume. • 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.

<sup>&</sup>lt;sup>2</sup> 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.

Table 3.54. District Heat Consumption and Expenditure Intensities in FBSS Buildings in Federal Region 9, 1993

Building Characteristics		District Heat	Consumption		District Heat Expenditures			
	Total (million pounds)	per Building (thousand pounds)	per Square foot (pounds)	per Worker (thousand pounds)	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Pound (dollars)	
All Buildings	834	11,269	70.93	36.0	122.5	0.77	10.87	
Building Floorspace (square								
feet)								
10,000 to 50,000	88	3,376	109.56	49.5	38.6	1.25	11.43	
50,001 to 200,000	353	10,092	96.22	49.2	113.6	1.08	11.25	
Over 200,000	393	30,226	53.94	27.6	314.2	.56	10.40	
Principal Building Activity								
Education	14	7,224	85.32	85.0	70.3	.83	9.73	
Health Care	503	13,963	64.92	30.7	138.9	.65	9.95	
Laboratory	97	24,275	253.76	178.2	286.9	3.00	11.82	
Lodging	43	3,587	63.25	120.6	46.9	.83	13.07	
Mercantile and Service	5	2,455	84.17	25.8	29.5	1.01	12.01	
Office	52	6,499	26.83	11.6	80.6	.33	12.40	
All Others	120	11,979	152.30	109.7	151.0	1.92	12.61	
Year Constructed								
1959 or Before	230	6,377	76.08	38.7	76.9	.92	12.05	
1960 to 1969	138	12,511	85.08	48.5	127.1	.86	10.16	
1970 to 1979	323	17,955	66.77	28.5	200.2	.74	11.15	
	323 144			46.9			9.02	
		15,950	62.91		143.8	.57		
1990 to 1993	NC	NC	NC	NC	NC	NC	NC	
Federal Agency								
Department of Defense	169	7,327	51.06	40.4	93.6	.65	12.78	
General Services Administration .	34	17,050	29.46	11.7	201.4	.35	11.81	
United States Postal Service	NC	NC	NC	NC	NC	NC	NC	
Veterans Administration	526	11,692	76.78	34.0	117.0	.77	10.01	
All Others	105	26,299	235.43	171.1	310.3	2.78	11.80	
Energy Sources (more than one								
may apply)								
Electricity	828	11,346	70.57	35.8	123.0	.77	10.84	
Natural Gas	509	18,859	76.28	39.1	204.6	.83	10.85	
Fuel Oil	163	18,081	54.54	27.4	188.3	.57	10.41	
District Heat	834	11,269	70.93	36.0	122.5	.77	10.87	
District Chilled Water	349	13,941	61.01	35.5	137.2	.60	9.84	
Propane	NC	NC	NC	NC	NC	NC	NC	
Any Other	78	39,199	60.17	33.5	461.9	.71	11.78	
Energy End Uses (more than								
one may apply)	024	11 500	71.26	26.0	125.0	77	10.07	
Heating	834	11,582	71.26	36.0	125.9	.77	10.87	
Air Conditioning	751	11,919	70.01	35.7	125.8	.74	10.55	
Water Heating	786	10,919	68.76	34.4	116.3	.73	10.65	
Cooking	462	23,080	64.64	32.5	238.7	.67	10.34	
Manufacturing	161	20,132	105.63	52.0	203.9	1.07	10.13	
Workers (main shift)				,				
Less than 50	61	3,412	70.49	404.0	41.9	.87	12.28	
50 to 99	22	3,583	57.02	46.0	42.9	.68	11.98	
100 to 499 500 or More	445 306	11,416 27,799	104.29 49.01	52.6 21.7	127.7 279.3	1.17 .49	11.18 10.05	
	300	21,177	77.01	21./	217.3		10.03	
Weekly Operating Hours 48 or Fewer	75	3,566	60.41	33.8	38.4	.65	10.77	
49 to 60	177	13,594	80.07	36.4	161.0	.95	11.84	
61 to 167	39	39,376	129.21	116.5	590.6	1.94	15.00	
Open Continuously	543	13,922	67.82	34.4	142.9	.70	10.27	

See footnotes at end of table.

Table 3.54. District Heat Consumption and Expenditure Intensities in FBSS Buildings in Federal Region 9, 1993 (Continued)

Building Characteristics		District Heat	Consumption	District Heat Expenditures			
	Total (million pounds)	per Building (thousand pounds)	per Square foot (pounds)	per Worker (thousand pounds)	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Pound (dollars)
HVAC Conservation Features							
(more than one may apply)							
VAV System	274	21,070	56.85	30.5	196.6	0.53	9.33
Economizer Cycle	472	16,281	82.92	42.0	172.5	.88	10.59
HVAC Maintenance	832	11,721	71.28	36.0	127.4	.77	10.87
Energy Management Practices (more than one may apply) Energy Management and Control							
System Energy Conservation	298	22,919	54.91	30.0	245.9	.59	10.73
Programs 1	402	19,142	69.66	31.9	209.1	.76	10.92
Energy Audit	248	10,343	61.46	31.5	110.1	.65	10.64
HVAC Maintenance Staff <sup>2</sup>	255	17,031	60.77	33.6	180.0	.64	10.57
Off-Hours Reduction in							
Equipment (more than one may							
apply) Heating	153	10,204	70.48	35.2	117.7	.81	11.53
2	139	7.709	60.63	27.6	86.6	.68	11.33
Cooling	139 48	7,709 7,956	34.19	27.6 14.5	86.6 94.3	.08 .41	11.24
	48 160	,	54.19 57.61	14.5 27.8	94.3 81.4	.41 .67	11.85
Lighting	100	6,953	57.01	21.8	81.4	.0/	11./1
Building Generates Electricity							
Yes	242	24,229	65.80	35.6	285.6	.78	11.79
No	592	9,244	73.27	36.1	97.0	.77	10.49

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

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. • VAV = Variable-Air Volume. • 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.

<sup>&</sup>lt;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.