Table 3.49. Natural Gas Consumption and Expenditure Intensities in FBSS Buildings in Federal Region 3, 1993

			Natu	ıral Gas Con	sumption			Natura	l Gas Exper	nditures
Building	Total (million cubic feet)	per Building (thousand	per Square Foot	per Worker (thousand	Distribution of Building-Level Intens (cubic feet/square fo		ensities	per Building	per Square	per Thousand Cubic
Characteristics		cubic feet)	(cubic feet)	cubic feet)	25th Percentile	Median	75th Percentile	(thousand dollars)	Foot (dollars)	Feet (dollars)
All Buildings	1,906	13,709	32.5	8.2	4.5	23.0	65.5	60.7	0.14	4.43
Building Floorspace (square feet)										
10,000 to 50,000 50,001 to 200,000	61 295	1,635 6,403	59.1 54.7	24.6 22.1	25.3 13.3	54.7 31.7	100.6 88.0	8.9 28.2	.32 .24	5.45 4.40
Over 200,000	1,550	27,687	29.7	7.2	.5	5.8	31.4	121.7	.13	4.40
Principal Building Activity Education	6	1,894	26.9	10.1	10.4	13.7	159.5	10.0	.14	5.27
Health Care	580	23,192	49.6	29.2	7.0	103.8	134.9	91.6	.20	3.95
LaboratoryLodging	56 34	6,960 3,730	24.2 16.5	11.5 34.7	3.1 20.6	27.4 48.6	87.3 71.0	39.4 19.6	.14 .09	5.66 5.26
Mercantile and Service	615	22,767	99.9	12.6	3.9	18.0	36.0	114.6	.50	5.03
Office All Others	579 37	10,339 3,374	18.0 9.2	4.0 2.8	1.1 6.3	16.0 41.4	41.3 100.6	41.9 17.3	.07 .05	4.06 5.14
Year Constructed	010	14.500	27.4	6.2	4.1	40.2	102.0	60.0	16	4.17
1959 or Before	919 157	14,580 6,533	37.4 12.1	6.2 5.1	4.1 2.3	40.3 14.2	103.8 38.4	60.8 27.3	.16 .05	4.17 4.17
1970 to 1979	100	3,865	7.8	3.0	3.5	17.2	41.7	18.5	.04	4.79
1980 to 1989	694 35	38,580 4,411	126.0 13.2	44.5 9.1	4.8 5.0	24.1 40.9	53.4 76.4	183.0 23.0	.60 .07	4.74 5.22
Federal Agency			• • •			•0 •				
Department of Defense	434 178	48,224 4,458	34.8 7.2	10.6 1.6	10.4 .4	20.6 10.9	48.5 31.3	180.6 20.6	.13	3.75 4.62
United States Postal Service	629	17,962	87.4	12.4	4.5	19.9	36.0	90.7	.03	5.05
Veterans Administration	573 91	18,497 3,797	56.8 21.7	34.6 7.7	6.6 13.2	103.8 58.3	132.3 96.8	73.8 22.1	.23 .13	3.99 5.83
Energy Sources (more than one										
may apply) Electricity	1,887	13,671	32.6	8.2	4.5	22.3	65.5	60.6	.14	4.43
Natural Gas	1,906	13,709	32.5	8.2	4.5	23.0	65.5	60.7	.14	4.43
Fuel Oil	955	18,722	27.6	11.0	3.9	20.1	103.8	73.4	.11	3.92
District Heat	411 372	10,548 74,370	11.7 30.0	2.3 8.6	.3 .3	1.8 .5	6.3 53.5	41.6 275.1	.05 .11	3.94 3.70
Propane		3,118	6.0	6.2	6.0	6.0	6.0	3.2	.01	1.03
Any Other	19	4,837	6.4	2.5	3.4	13.0	27.4	26.0	.03	5.37
Energy End Uses (more than one may apply)										
Heating	1,906	13,709	32.5	8.2	4.5	23.0	65.5	60.7	.14	4.43
Air Conditioning	1,884	13,755	32.5	8.2	4.5	21.6	61.9	60.9	.14	4.43
Water Heating	1,901 1,583	13,874 25,531	32.5 32.3	8.3 7.7	4.5 .6	21.6 10.4	65.5 48.6	61.5 113.4	.14 .14	4.43 4.44
Manufacturing	564	20,147	26.6	6.3	3.8	11.5	26.3	84.9	.11	4.21
Workers (main shift) Less than 50	59	2,583	68.1	120.0	20.6	61.9	103.8	12.5	.33	4.85
50 to 99	51	3,634	78.7	55.8	19.9	51.6	85.3	9.9	.21	2.73
100 to 499	347 1,449	7,538 25,866	61.1 28.1	28.7 6.6	9.1 .5	29.5 5.9	99.1 32.8	35.5 114.0	.29 .12	4.71 4.41
Weekly Operating Hours	20	2.052				21.5	20.1			. a.
48 or Fewer	39 73	2,963 2,616	12.9 6.3	6.8 2.1	6.3 2.2	21.6 13.0	99.1 39.0	15.8 14.1	.07 .03	5.33 5.41
61 to 167	127	4,544	17.7	7.8	2.3	20.0	40.1	14.8	.06	3.25
Open Continuously	1,667	23,808	45.2	9.5	6.3	38.4	103.8	106.1	.20	4.46

Table 3.49. Natural Gas Consumption and Expenditure Intensities in FBSS Buildings in Federal Region 3, 1993 (Continued)

			Natu	ıral Gas Con	sumption			Natura	l Gas Expe	nditures
Building	Total (million	per Building (thousand	per Square Foot	per Worker (thousand	Buildiı	Distribution ng-Level Int c feet/square	ensities	per Building	per Square Foot	per Thousand Cubic
Characteristics	cubic feet)	cubic feet)	(cubic feet)	cubic feet)	25th Percentile	Median	75th Percentile	(thousand dollars)	(dollars)	Feet (dollars)
Multibuilding Facility							4000			
YesNo	761	10,431	31.5	9.0	10.4	41.7	103.8	46.4	0.14	4.45
	1,144	17,335	33.1	7.8	.9	13.0	36.0	76.6	.15	4.42
Space-Heating Energy Source Natural Gas	1,480	15,421	66.9	29.6	15.5	40.8	103.1	70.4	.31	4.57
	1,456	16,172	72.4	32.5	16.9	41.0	103.8	73.7	.33	4.56
	25	4,154	12.3	4.7	6.3	23.8	41.7	21.0	.06	5.05
	425	9,887	11.6	2.3	.3	1.8	7.1	39.1	.05	3.96
	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Cooling Energy Source Natural Gas Other Excluding Natural Gas A/C Not Performed	1	563	25.3	6.3	25.3	25.3	25.3	4.4	.20	7.76
	1,884	13,852	32.5	8.2	4.2	21.3	64.6	61.3	.14	4.43
	21	10,538	28.2	11.7	26.4	48.7	71.0	48.6	.13	4.61
Water-Heating Energy Source Natural Gas Other Excluding Natural Gas Water Heating Not Performed	1,428	18,310	78.9	29.2	20.0	44.1	103.8	82.7	.36	4.51
	472	8,008	11.7	2.6	.5	5.3	19.2	33.4	.05	4.17
	5	2,434	42.9	3.7	40.3	51.1	61.9	12.2	.21	5.01
Cooking Energy Source Natural Gas Other Excluding Natural Gas Cooking Not Performed	1,393	30,286	35.6	7.7	.6	6.8	53.5	138.2	.16	4.56
	190	11,860	19.0	7.4	.5	22.3	46.4	42.0	.07	3.54
	323	4,190	33.6	12.7	10.4	35.1	81.2	18.4	.15	4.38
Manufacturing Energy Source Natural Gas Other Excluding Natural Gas Manufacturing Not Performed	47	9,346	8.8	3.6	3.8	12.7	12.8	51.6	.05	5.52
	517	22,495	32.5	6.8	3.9	10.3	26.4	92.1	.13	4.09
	1,341	12,085	35.8	9.4	4.8	33.0	81.2	54.7	.16	4.52
Percent of Floorspace Heated Not Heated 1 to 50	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
	16	3,292	3.7	2.5	.5	31.4	41.4	16.4	.02	4.98
	1,889	14,098	34.8	8.4	4.5	22.3	65.5	62.4	.15	4.43
Heating Equipment (more than one may apply) Heat Pumps Furnaces Individual Space Heaters District Heat Boilers Packaged-Heating Units	33	2,722	6.1	2.2	1.6	17.8	46.8	14.6	.03	5.36
	33	4,681	92.7	56.0	16.8	39.7	100.6	6.6	.13	1.41
	1,127	32,207	54.0	18.1	3.9	26.4	88.0	145.2	.24	4.51
	725	12,952	18.5	4.0	.7	6.8	86.3	52.3	.07	4.04
	1,076	15,587	60.0	24.0	12.7	26.4	57.9	73.7	.28	4.73
	638	39,857	158.8	50.0	2.5	19.9	78.1	205.3	.82	5.15
Retrofit or Purchase of any Equipment Within Last Ten Years (more than one may apply) Retrofit and/or Purchase Retrofit Purchase No Retrofit or Purchase	1,784 695 1,667 121	16,076 15,794 18,732 4,327	34.4 27.1 40.8 17.8	8.3 9.0 9.1 7.8	3.5 2.2 4.8 11.0	20.1 13.5 26.0 35.6	61.9 42.0 77.3 95.0	70.8 65.6 82.4 21.1	.15 .11 .18	4.40 4.15 4.40 4.87
HVAC Conservation Features (more than one may apply) VAV System Economizer Cycle HVAC Maintenance	1,094 1,531 1,888	22,331 19,634 13,988	48.0 38.3 32.3	10.7 8.2	3.2 3.4 4.5	12.7 14.2 23.0	42.0 47.0 61.9	105.8 88.1 62.0	.23 .17 .14	4.74 4.49

Table 3.49. Natural Gas Consumption and Expenditure Intensities in FBSS Buildings in Federal Region 3, 1993 (Continued)

Building Characteristics		ı	Natural Gas Expenditures							
	`	per Building (thousand	per Square Foot (cubic feet)	per Worker (thousand cubic feet)	Distribution of Building-Level Intensities (cubic feet/square foot)			per Building	per Square	per Thousand Cubic
	cubic feet)	cubic feet)			25th Percentile	Median	75th Percentile	(thousand dollars)	Foot (dollars)	Feet (dollars)
Energy Management Practices										
(more than one may apply)										
Energy Management and Control										
System	1,638	24,081	36.5	8.5	3.2	18.6	89.6	107.6	0.16	4.4
Energy Conservation										
Programs 1	1,331	27,171	34.9	8.4	1.2	13.7	41.7	122.3	.16	
Energy Audit	566	14,152	27.5	9.7	5.8	34.0	66.9	58.4	.11	4.1
HVAC Maintenance Staff ²	900	17,312	27.8	5.5	1.9	13.0	47.7	70.2	.11	4.00
Off-Hours Reduction in Equipment (more than one may										
apply)										
Heating	192	3,496	9.2	3.6	1.8	13.3	41.7	16.3	.04	4.6
Cooling	191	3,480	9.3	3.6	1.8	16.9	41.7	16.2	.04	
Hot Water	111	3,181	8.0	3.0	1.1	7.1	26.4	14.5	.04	
Lighting	223	3,772	10.6	4.2	1.7	18.0	40.2	15.6	.04	4.13
Natural Gas Transported										
for the Account of Others	138	12,502	32.2	20.9	4.5	19.9	81.2	47.7	.12	3.8
Used in Building Not Used in Building	1,748		33.2	8.0	4.5	25.7	67.8	63.0	.12	3.8 4.4
Don't Know/	1,/48	14,095	33.2	8.0	4.0	25.7	07.8	03.0	.15	4.4
DOII I KNOW/	20	5,066	11.5	3.2	5.1	9.3	23.9	26.9	.06	5.3

¹ 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. • A/C = Air Conditioning. • 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.

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.

Table 3.50. Natural Gas Consumption and Expenditure Intensities in FBSS Buildings in Federal Region 6, 1993

		<u>, </u>	Nati	ıral Gas Con	sumntion			Natura	l Gas Expe	nditures
			l	irai Gas Con				rvatura	l Gas Exper	iditures
Building	Total (million	per Building (thousand	ousand Square Foot	per Worker (thousand	Buildir	Pistribution ng-Level Int c feet/squar	ensities	per Building	per Square	per Thousand Cubic
Characteristics	cubic feet)	cubic feet)	(cubic feet)	cubic feet)	25th Percentile	Median	75th Percentile	(thousand dollars)	Foot (dollars)	Feet (dollars)
All Buildings	970	5,775	39.1	17.2	7.8	28.1	67.9	19.6	0.13	3.39
Building Floorspace (square feet)										
10,000 to 50,000	145	1,887	78.6	34.0	16.2	38.4	80.4	6.3	.26	3.33
50,001 to 200,000	343	6,017	56.4	30.2	7.6	28.0	59.4	19.6	.18	3.27
Over 200,000	482	14,172	28.5	11.8	2.9	9.9	23.7	49.6	.10	3.50
Principal Building Activity										
Education	7	1,826	55.1	34.9	38.1	74.3	76.6	7.9	.24	4.35
Health Care	615	24,619	64.4	35.7	47.7	68.0	111.1	79.0	.21	3.21
LaboratoryLodging	56 32	4,014 2,928	38.3 48.4	38.7 86.8	5.8 19.0	53.6 54.7	101.7 105.4	13.8 8.4	.13 .14	3.44 2.86
Mercantile and Service		727	6.6	2.2	2.2	8.4	27.1	3.6	.03	4.96
Office	154	2,851	20.3	7.1	7.6	20.8	39.8	10.9	.08	3.81
All Others	77	3,649	67.4	34.7	14.2	42.9	96.4	12.8	.24	3.50
Year Constructed										
1959 or Before	437	6,937	51.9	26.8	11.8	37.2	74.5	21.6	.16	3.11
1960 to 1969	126	4,184	25.7	6.7	3.3	16.0	44.1	16.8	.10	4.01
1970 to 1979	174 191	6,707 4,670	36.0 51.9	17.8 23.4	8.5 6.3	24.1 31.0	65.9 76.7	23.9 16.0	.13 .18	3.56 3.42
1990 to 1993	42	5,212	14.0	12.7	2.8	15.2	61.0	18.4	.05	3.54
Federal Agency										
Department of Defense	143	7,943	100.9	55.7	26.0	68.1	117.8	26.1	.33	3.29
General Services Administration .	91	3,131	14.4	4.8	4.6	16.3	23.7	12.7	.06	4.06
United States Postal Service	32	660	6.4	2.3	1.5	6.4	25.7	3.5	.03	5.28
Veterans Administration	485 219	20,207 4,563	55.6 64.9	31.8 39.9	38.7 28.5	67.3 60.2	101.6 102.2	62.7 16.2	.17 .23	3.10 3.54
	217	1,505	01.5	37.7	20.5	00.2	102.2	10.2	.23	3.54
Energy Sources (more than one may apply)										
Electricity	970	5,775	39.1	17.2	7.8	28.1	67.9	19.6	.13	3.39
Natural Gas	970	5,775	39.1	17.2	7.8	28.1	67.9	19.6	.13	3.39
Fuel Oil	150	12,474	40.8	13.0	6.5	24.5	55.4	44.7	.15	3.58
District Heat District Chilled Water	90 92	6,020 7,071	16.9 17.7	9.9 9.4	5.7 5.8	11.2 16.3	47.7 44.1	21.1 24.5	.06 .06	3.51 3.46
Propane	28	27,978	207.2	68.6	207.2	207.2	207.2	96.5	.71	3.45
Any Other	123	30,715	105.7	42.7	28.7	169.4	292.7	106.2	.37	3.46
Energy End Uses (more than										
one may apply)										
Heating	970	5,775	39.1	17.2	7.8	28.1	67.9	19.6	.13	3.39
Air Conditioning	970	5,775	39.1	17.2	7.8	28.1	67.9	19.6	.13	3.39
Water Heating Cooking	969 614	5,839 12,793	39.1 38.9	17.2 16.2	7.6 9.6	28.4 29.5	68.0 75.8	19.8 45.8	.13 .14	3.39 3.58
Manufacturing		3,198	16.3	5.2	2.2	8.4	17.5	11.7	.06	3.65
Workers (main shift) Less than 50	90	1,962	58.0	94.6	16.3	33.3	86.6	6.5	.19	3.32
50 to 99		2,012	40.4	27.4	3.5	29.3	65.9	7.7	.15	3.81
100 to 499	325	5,799	56.4	29.4	5.8	31.1	65.2	18.1	.18	3.13
500 or More	485	15,636	30.7	11.6	5.4	12.3	44.1	55.0	.11	3.52
Weekly Operating Hours										
48 or Fewer	78	2,615	51.0	28.7	26.2	41.3	86.6	9.3	.18	3.54
49 to 60	85 110	3,259 2,030	22.2 23.2	9.3 10.0	5.6 6.3	19.8 18.9	37.2 42.4	11.7 8.3	.08 .10	3.60 4.10
Open Continuously	697	12,022	47.3	20.8	5.8	43.4	86.6	38.9	.15	3.24
<u>.</u>		,								

Table 3.50. Natural Gas Consumption and Expenditure Intensities in FBSS Buildings in Federal Region 6, 1993 (Continued)

				Natural Gas Expenditures						
Building	Total (million cubic	per Building (thousand	per Square Foot	per Worker (thousand	Buildir	bistribution ng-Level Int e feet/square	ensities	per Building	per Square	per Thousand Cubic
Characteristics	cubic feet)	cubic feet)	(cubic feet)	cubic feet)	25th Percentile	Median	75th Percentile	(thousand dollars)	Foot (dollars)	Feet (dollars)
Multibuilding Facility										
Yes	655 315	7,446 3,936	42.0 34.2	18.9 14.5	11.4 5.4	51.2 18.9	94.0 37.0	23.9 14.9	0.13	3.21 3.77
Space-Heating Energy Source	001	5 000	45.0	10.2	0.5	20.1	70.0	10.7	1.5	2.20
Natural Gas Main	891 881	5,822 6,116	45.0 48.9	18.3 20.0	8.5 9.9	30.1 31.5	72.2 74.4	19.7 20.6	.15 .16	3.38 3.36
Natural Gas Secondary	10	1,103	5.6	2.2	1.5	8.6	10.4	5.2	.03	4.71
Other Excluding Natural Gas	79	5,295	15.8	10.1	3.3	11.2	57.7	18.7	.06	3.53
Building Not Heated	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Cooling Energy Source Natural Gas	(*)	147	3.1	2.0	3.1	3.1	3.1	.8	.02	5.64
Other Excluding Natural Gas	970	5,808	39.1	17.2	8.4	28.2	68.0	19.7	.13	3.39
A/C Not Performed	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Water-Heating Energy Source	017	6.520	52.2	20.0	12.2	20.4	76.4	22.0	10	2 27
Natural Gas Other Excluding Natural Gas	817 152	6,539 3,706	52.2 16.6	20.8 8.9	12.3 3.5	38.4 8.5	76.4 25.8	22.0 12.9	.18 .06	3.37 3.49
Water Heating Not Performed	1	399	20.2	36.3	14.2	20.1	26.0	3.7	.19	9.29
Cooking Energy Source										
Natural Gas	538	17,343	48.9	23.2	11.2	47.7	101.4	60.6	.17	3.50
Other Excluding Natural Gas Cooking Not Performed	76 356	4,496 2,967	15.9 39.5	5.2 19.2	8.5 6.0	16.3 27.6	40.1 67.5	18.8 9.1	.07 .12	4.18 3.06
Manufacturing Energy Source										
Natural Gas	7	6,927	187.5	164.9	187.5	187.5	187.5	22.2	.60	3.20
Other Excluding Natural Gas Manufacturing Not Performed	63 900	3,020 6,163	14.8 43.9	4.7 21.0	2.2 9.4	7.5 31.2	16.3 71.0	11.2 20.8	.05 .15	3.70 3.37
Percent of Floorspace Heated										
Not Heated	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
1 to 50	23	2,923	26.0	11.3	4.7	19.8	84.1	11.8	.11	4.04
51 to 100	947	5,917	39.6	17.4	8.4	28.4	67.9	20.0	.13	3.37
Heating Equipment (more than one may apply)										
Heat Pumps	32	5,290	36.7	10.3	3.4	31.1	59.4	16.7	.12	3.15
Furnaces	51	3,402	68.6	39.3	4.7	37.5	128.2	10.2	.21	2.99
Individual Space Heaters District Heat	160 283	6,650 9,771	39.5 39.9	11.4 21.7	9.4 15.1	16.1 54.7	55.7 74.3	24.1 27.2	.14 .11	3.62 2.79
Boilers	623	6,424	38.7	15.8	8.4	27.1	61.7	23.4	.14	3.65
Packaged-Heating Units	327	7,119	58.1	23.8	6.3	16.8	71.0	25.4	.21	3.57
Retrofit or Purchase of any Equipment Within Last Ten Years (more than one may										
apply) Retrofit and/or Purchase	805	6,655	37.8	16.0	7.5	25.7	65.8	22.5	.13	3.38
Retrofit	297	6,598	25.9	11.4	12.4	26.0	72.2	25.1	.10	3.81
Purchase	701	6,944	41.6	16.0	5.6	22.2	58.8	23.1	.14	3.32
	165	3,508	46.4	27.0	10.4	31.0	83.5	12.0	.16	3.42
HVAC Conservation Features (more than one may apply)										
VAV System	484	10,084	34.5	16.3	5.6	19.6	69.7	35.4	.12	3.52
	681	7,828	39.9	17.1	11.8	31.0	59.4	28.3	.14	3.61

Table 3.50. Natural Gas Consumption and Expenditure Intensities in FBSS Buildings in Federal Region 6, 1993 (Continued)

			Natu	ıral Gas Con	Natural Gas Consumption								
Building Characteristics	Total (million	per Building (thousand	per Square Foot	per Worker (thousand	Buildin	istribution g-Level Int : feet/squar	ensities	per Building	per Square	per Thousand Cubic			
	cubic feet)	cubic feet)	(cubic feet)	cubic feet)	25th Percentile	Median	75th Percentile	(thousand dollars)	Foot (dollars)	Feet (dollars)			
Energy Management Practices													
(more than one may apply)													
Energy Management and Control													
System	686	10,549	39.9	18.8	4.6	19.0	65.8	34.7	0.13	3.29			
Energy Conservation	200	11.405	24.4	10.4	0.4	22.5		27.4		2.20			
Programs 1	388	11,405	34.4	13.4	8.4	22.5	57.7	37.4	.11	3.28			
Energy Audit	272	4,945	25.5	8.9	5.7	15.6	49.9	18.6	.10				
HVAC Maintenance Staff ²	340	7,552	28.5	13.7	3.5	11.8	31.8	27.2	.10	3.60			
Off-Hours Reduction in													
Equipment (more than one may													
apply)													
Heating	191	2,171	22.4	9.1	5.9	19.5	38.3	8.3	.09				
Cooling	191	2,194	22.4	9.1	5.7	19.8	38.4	8.4	.09				
Hot Water	39	1,768	13.4	6.2	8.4	18.2	31.0	7.9	.06				
Lighting	220	2,591	25.8	10.4	5.7	18.5	40.1	9.5	.09	3.67			
Natural Gas Transported													
for the Account of Others													
Used in Building	66	13,266	105.1	29.7	57.7	157.4	187.5	40.2	.32	3.03			
Not Used in Building	826	5,901	37.2	15.9	5.9	25.8	59.3	20.1	.13				
Don't Know/		•											
Not Ascertained	78	3,377	38.9	34.9	10.8	52.6	101.7	11.9	.14	3.52			

¹ 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. • A/C = Air Conditioning. • 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.

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.

Table 3.51. Natural Gas Consumption and Expenditure Intensities in FBSS Buildings in Federal Region 9, 1993

			Natu	ıral Gas Con	sumption			Natura	l Gas Expei	nditures
Building		per Building (thousand	per Square Foot	per Worker (thousand	Buildir	distribution ng-Level Int to feet/square	ensities	per Building	per Square	per Thousand Cubic
Characteristics		cubic feet)	(cubic feet)	cubic feet)	25th Percentile	Median	75th Percentile	(thousand dollars)	Foot (dollars)	Feet (dollars)
All Buildings	1,047	4,655	30.2	14.0	11.4	26.6	57.2	20.6	0.13	4.42
Building Floorspace (square feet)										
10,000 to 50,000	109	1,177	47.5	18.4	12.5	31.6	82.9	5.9	.24	4.97
50,001 to 200,000	409	4,705	44.4	21.3	16.7	30.4	51.8	21.8	.21	4.64
Over 200,000	529	11,747	22.8	10.6	5.9	12.0	24.4	48.6	.09	4.14
Principal Building Activity										
Education	18	2,573	66.3	67.0	30.4	52.3	63.1	8.3	.21	3.22
Health Care	399	15,353	58.4	26.9	19.8	57.2	111.6	65.6	.25	4.27
Laboratory	96	3,306	37.6	25.3	29.2	42.4	67.9	16.4	.19	4.95
Lodging Mercantile and Service	23 54	2,519 1,156	43.6 8.2	87.2 3.3	24.4 6.0	54.5 11.2	69.6 18.0	12.0 6.9	.21 .05	4.77 5.94
Office	298	4,197	20.4	8.8	7.1	20.4	39.5	17.5	.09	4.17
All Others	159	4,425	48.0	29.3	20.7	48.7	96.5	19.9	.22	4.50
Year Constructed										
1959 or Before	382	4,897	41.7	24.0	20.0	38.4	60.8	18.3	.16	3.74
1960 to 1969	272	5,672	33.2	14.1	13.0	28.9	53.9	25.3	.15	4.46
1970 to 1979	217	4,812	22.0	9.9	7.5	16.1	30.0	25.7	.12	5.34
1980 to 1989	155 22	3,693 1,796	26.0 14.1	10.7 6.9	8.6 4.5	21.4 10.9	69.9 43.3	16.0 13.2	.11 .10	4.34 7.35
	22	1,770	14.1	0.7	1.5	10.7	15.5	15.2	.10	7.55
Federal Agency	162	4 271	34.0	20.4	18.5	40.2	62.0	18.6	.14	4.25
Department of Defense	224	4,371 5,884	18.3	8.0	6.6	16.6	26.5	23.1	.07	3.93
United States Postal Service	58	1,088	8.2	3.3	5.2	9.2	16.1	6.5	.05	5.98
Veterans Administration	344	11,861	64.0	28.8	19.1	57.2	111.6	50.2	.27	4.23
All Others	260	3,830	49.5	26.9	26.7	45.2	80.4	18.6	.24	4.86
Energy Sources (more than one may apply)										
Electricity	1,047	4,655	30.2	14.0	11.4	26.6	57.2	20.6	.13	4.42
Natural Gas	1,047	4,655	30.2	14.0	11.4	26.6	57.2	20.6	.13	4.42
Fuel Oil	496	12,409	47.1	23.1	24.0	43.8	98.3	54.3	.21	4.37
District Heat	238 146	8,814 18,262	35.7 38.2	18.3 20.3	9.7 12.9	22.8 41.8	83.2 157.0	37.8 70.9	.15 .15	4.29 3.88
Propane	72	71,563	95.2	47.7	95.2	95.2	95.2	392.3	.52	5.48
Any Other	72	24,129	42.7	21.3	11.4	121.6	161.0	83.8	.15	3.47
Energy End Uses (more than										
one may apply)										
Heating	1,044	4,683	30.7	14.4	11.6	26.7	57.3	20.7	.14	4.42
Air Conditioning	1,012	4,844	30.2	13.8	11.2	26.3	54.2	21.1	.13	4.36
Water Heating Cooking	1,044 465	4,683 9,126	30.4 29.4	14.0 12.5	11.4 11.4	26.7 29.6	57.3 83.2	20.6 42.5	.13 .14	4.40 4.66
Manufacturing	95	4,531	17.5	7.9	7.6	9.7	22.6	18.5	.07	4.08
· ·										
Workers (main shift) Less than 50	77	1,408	38.2	69.8	14.3	48.2	83.6	7.7	.21	5.45
50 to 99	72	1,997	45.7	26.4	13.3	27.9	42.2	7.9	.18	3.98
100 to 499	436	4,637	39.9	23.0	12.5	26.6	51.8	21.6	.19	4.66
500 or More	462	11,556	22.9	8.9	4.8	14.1	31.0	47.3	.09	4.09
Weekly Operating Hours				_	_	_	_			
48 or Fewer	149	3,465	49.6	34.9	20.0	32.8	82.9	14.1	.20	4.07
49 to 60	260 149	4,640 2,608	20.5 27.9	8.6 15.3	7.2 9.3	17.3 18.5	38.3 42.4	18.3 12.4	.08	3.95 4.76
Open Continuously	490	7,100	35.8	16.0	9.3 17.7	39.0	83.6	33.2	.13	4.76
Commondy	120	,,100	33.0	10.0	17.7	37.0	05.0	33.2	.17	4.07

Table 3.51. Natural Gas Consumption and Expenditure Intensities in FBSS Buildings in Federal Region 9, 1993 (Continued)

			Natu	ıral Gas Con	sumption			Natural Gas Expenditures			
Building	Total (million	per Building (thousand	per Square Foot	per Worker (thousand	Buildir	Distribution ng-Level Int c feet/square	ensities	per Building	per Square	per Thousand Cubic	
Characteristics	cubic feet)	cubic feet)	(cubic feet)	cubic feet)	25th Percentile	Median	75th Percentile	(thousand dollars)	Foot (dollars)	Feet (dollars)	
Multibuilding Facility		•	•	l							
YesNo	720 327	6,053 3,086	38.1 20.7	17.6 9.7	19.8 7.1	40.9 16.8	69.6 30.0	27.4 13.0	0.17 .09	4.52 4.20	
Space-Heating Energy Source	004	4.611	21.2	14.4	12.2	20.0	60.4	20.4	1.4	4.42	
Natural Gas Natural Gas Main	904 836	4,611 4,521	31.3 30.8	14.4 14.5	13.2 14.3	28.9 28.6	60.4 59.3	20.4 20.1	.14 .14	4.43 4.45	
Natural Gas Secondary	67	6,131	40.6	14.0	5.2	31.0	60.8	25.3	.17	4.13	
Other Excluding Natural Gas Building Not Heated	141 3	5,205 1,558	26.9 4.7	14.0 1.5	7.2 2.0	12.4 4.6	32.8 7.1	22.6 9.1	.12	4.34 5.87	
Cooling Energy Source	3	1,550	4.7	1.5	2.0	4.0	7.1	7.1	.03	5.67	
Natural Gas	2	309	9.6	3.2	5.2	11.2	15.7	2.3	.07	7.51	
Other Excluding Natural Gas	1,011	4,978	30.3	13.9	11.4	26.6	57.2	21.7	.13	4.36	
A/C Not Performed	35	2,189	30.7	20.4	21.4	53.4	61.8	13.3	.19	6.07	
Water-Heating Energy Source	012	1.566	20.0	12.0	15.7	20.0	60.0	20.5	12	4.40	
Natural Gas Other Excluding Natural Gas	813 231	4,566 5,144	30.0 31.7	13.9 14.5	15.7 6.9	30.0 12.9	60.8 39.5	20.5 21.2	.13	4.48 4.13	
Water Heating Not Performed		1,572	9.7	9.1	9.0	14.6	20.2	15.6	.10	9.94	
Cooking Energy Source											
Natural Gas	329	9,690 7,997	33.4 22.8	13.0	7.1 12.2	26.3	67.8	45.8 35.8	.16	4.73 4.48	
Other Excluding Natural Gas Cooking Not Performed	136 582	3,345	30.8	11.4 15.5	11.4	30.8 26.5	83.2 52.3	14.1	.10 .13	4.46	
Manufacturing Energy Source											
Natural Gas	27	3,355	14.6	7.0	8.0	10.8	20.4	16.1	.07	4.81	
Other Excluding Natural Gas Manufacturing Not Performed	68 952	5,256 4,668	19.0 32.5	8.4 15.2	7.1 12.5	9.3 28.4	46.7 57.6	20.0 20.8	.07 .14	3.80 4.45	
Percent of Floorspace Heated											
Not Heated	3	1,558	4.7	1.5	2.0	4.6	7.1	9.1	.03	5.87	
1 to 50	76 968	6,321 4,590	46.1 29.9	73.9 13.5	5.7 11.6	35.3 26.6	57.9 57.3	25.3 20.4	.18 .13	4.00 4.45	
Heating Equipment (more than											
one may apply) Heat Pumps	76	2,613	29.6	12.4	7.2	36.2	49.1	10.8	.12	4.12	
Furnaces		1,018	19.3	8.4	8.6	18.2	49.1	6.0	.11	5.94	
Individual Space Heaters	132	5,753	28.9	12.7	9.2	30.4	67.8	24.7	.12	4.30	
District Heat	257 617	7,550 4,639	34.7 26.5	18.5 11.6	12.0 14.1	31.2 27.0	101.3 51.8	32.4 22.6	.15 .13	4.29 4.87	
Packaged-Heating Units	264	4,549	47.6		12.9	26.6	63.1	16.3	.17	3.58	
Retrofit or Purchase of any Equipment Within Last Ten Years (more than one may											
apply) Retrofit and/or Purchase	876	5,409	29.4	13.4	11.2	27.6	57.2	24.2	.13	4.47	
Retrofit	643	8,464	33.2	14.5	15.9	31.5	70.0	35.5	.14	4.19	
Purchase	495 171	4,340 2,717	29.9 34.8	13.6 18.4	9.6 12.0	26.4 26.5	54.2 60.8	21.4 11.3	.15 .14	4.94 4.16	
HVAC Conservation Features (more than one may apply)											
VAV System Economizer Cycle	390 674	6,614 5,011	29.8	13.9	11.2	22.5	50.9 51.8	29.8	.13	4.51 4.21	
Economizer Cycle	1,028	5,911 4,780	29.6 30.1	13.5 13.9	9.7 11.2	22.0 26.5	51.8 57.1	24.9 21.1	.12 .13	4.21	
	-,020	.,,,	55.1	10.7		20.0				0	

Table 3.51. Natural Gas Consumption and Expenditure Intensities in FBSS Buildings in Federal Region 9, 1993 (Continued)

		I	Natural Gas Expenditures							
Building Characteristics	Total (million	per Building (thousand	per Square Foot	per Worker (thousand	Buildin	istribution g-Level Int e feet/square	ensities	per Building	per Square	per Thousand Cubic
	cubic feet)		(cubic feet)	cubic feet)	25th Percentile	Median	75th Percentile	(thousand dollars)	Foot (dollars)	Feet (dollars)
Energy Management Practices										
(more than one may apply)										
Energy Management and Control										
System	360	6,319	24.9	10.9	8.2	24.4	59.3	29.1	0.11	4.6
Energy Conservation										
Programs 1	655	6,684	29.9	13.3	11.6	26.6	57.3	28.2	.13	4.22
Energy Audit	344	5,139	25.8	11.0	9.7	22.6	58.2	23.9	.12	4.6
HVAC Maintenance Staff ²	371	9,509	29.5	12.3	6.5	21.5	57.3	41.1	.13	4.3
Off-Hours Reduction in Equipment (more than one may										
apply)										
Heating	453	3,571	24.6	11.5	9.6	20.9	39.7	15.0	.10	4.19
Cooling	432	3,515	24.6	11.5	9.2	20.0	39.3	14.5	.10	4.1
Hot Water	270	4,580	20.7	9.2	9.6	20.9	30.8	17.9	.08	3.9
Lighting	511	3,902	26.8	12.5	10.5	22.5	47.6	16.1	.11	4.1
Natural Gas Transported										
for the Account of Others										
Used in Building	223	9,286	42.8	17.4	12.9	42.8	57.3	39.1	.18	4.2
Not Used in Building Don't Know/	736	4,231	27.5	13.2	10.6	22.9	51.8	18.7	.12	4.4
Not Ascertained	85	3,397	32.3	13.7	20.2	37.6	69.9	16.4	.16	4.8

¹ 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. • A/C = Air Conditioning. • 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.

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.