## Commercial Buildings Energy Consumption Surveys

## **Buildings Characteristics**

## Summary Tables (12 pages, 59 kb)

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These data are from the 1995 Commercial Buildings Energy Consumption Survey (CBECS), a national probability sample survey of commercial buildings sponsored by the Energy Information Administration, that provides information on the use of energy in commercial buildings in the United States. The 1995 CBECS was the sixth survey in a series begun in 1979. The data were collected from a sample of 6,639 buildings representing 4.6 million commercial buildings and 58.8 billion square feet of commercial floorspace in the U.S. The 1995 data are available for the four Census regions and nine Census division.									
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Table 1. Summary Table: Totals and Means of Floorspace, Number of Workers, and Hours of Operation, 1995

Building Characteristics	All Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Mean Square Feet per Building (thousand)	Mean Square Feet per Worker	Mean Hours per Week	RSE
RSE Column Factor:	1.3	1.0	1.4	1.0	1.0	0.5	Row Factor
All Buildings Building Floorspace	4,579	58,772	76,767	12.8	766	62	3.2
(Square Feet)							
1,001 to 5,000	2,399	6,338	10,585	2.6	599	59	4.7
5,001 to 10,000	1,035	7,530	7,584	7.3	993	58	5.4
10,001 to 25,000	745	11,617	12,961	15.6	896	67	6.3
25,001 to 50,000	213	7,676	10,206	36.1	752	72 80	4.0
50,001 to 100,000 100,001 to 200,000	115 48	7,968 6,776	9,733 8,493	69.3 140.9	819 798	80 87	4.4 5.0
200,001 to 500,000	19	5,553	7,599	294.9	731	102	5.2
Over 500,000	6	5,313	9,604	896.4	553	108	7.7
Principal Building Activity	000	7.740	40.000	05.4	707	5.1	
Education	309	7,740	10,096	25.1	767	51	7.1
Food SalesFood Service	137 285	642 1,353	652 2,342	4.7 4.8	984 578	112 85	10.7 9.2
Health Care	105	2,333	4,483	22.2	520	79	9.7
Lodging	158	3,618	2,748	22.8	1,317	156	8.3
Mercantile and Service	1,289	12,728	13,464	9.9	945	61	5.9
Office	705	10,478	27,053	14.9	387	52	5.8
Public Assembly	326	3,948	2,997	12.1	1,317	53	10.1
Public Order and Safety	87	1,271	1,703	14.6	746	72	22.4
Religious Worship Warehouse and Storage	269 580	2,792	3,844 4,904	10.4 14.6	Q 1,730	41 59	15.1 10.6
Other	67	8,481 1,004	1,844	14.9	544	79	23.4
Vacant	261	2,384	638	9.1	3,735	19	19.4
Year Constructed							
1919 or Before	353	3,673	3,658	10.4	1,004	56	10.1
1920 to 1945	562	6,710	7,352	11.9	913	55	9.7
1946 to 1959	867	9,298	10,220	10.7	910	54	7.0
1960 to 1969	718	10,858	14,389	15.1	755	62	6.6
1970 to 1979	813	11,333	15,039	13.9	754 607	68 67	5.7 7.0
1980 to 1989 1990 to 1992	846 218	12,252 2,590	20,200 3,900	14.5 11.9	664	61	10.9
1993 to 1995	202	2,059	2,008	10.2	1,025	71	13.2
Floors							
One	3,018	24,552	25,372	8.1	968	59	4.3
Two	1,002	14,122	17,979	14.1	785	66	6.5
Three	399	7,335	8,464	18.4	867	62	8.5
Four to Nine	148	8,789	14,576	59.4	603	84	8.3
Ten or More	12	3,975	10,376	328.9	383	96	9.3
Census Region							
Northeast	725	11,883	15,149	16.4	784	67	7.3
Midwest	1,139	14,322	16,976	12.6	844	59	6.6
South West	1,750 964	20,830 11,736	26,500 18,142	11.9 12.2	786 647	60 63	5.3 7.0
Climate Zone: 45-Year	301	, . 00	. 5, 1 12		3.11	00	,.0
Average Fewer than 2,000 CDD and							
More than 7,000 HDD	493	5,098	5,965	10.3	855	60	11.7
5,500 to 7,000 HDD	975	14,597	16,896	15.0	864	64	6.4
4,000 to 5,499 HDD	1,070	15,155	21,064	14.2	719	64	8.9
Fewer than 4,000 HDD	1,103	13,491	20,560	12.2	656	61	9.5
More than 2,000 CDD and							
Fewer than 4,000 HDD	937	10,430	12,281	11.1	849	59	7.1

Table 1. Summary Table: Totals and Means of Floorspace, Number of Workers, and Hours of Operation, 1995 (Continued)

		<u> </u>	-	•		<u> </u>	
Building Characteristics	All Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Mean Square Feet per Building (thousand)	Mean Square Feet per Worker	Mean Hours per Week	RSE Row
RSE Column Factor:	1.3	1.0	1.4	1.0	1.0	0.5	Factor
Workers (main shift)							
Fewer than 5	2,505	13,885	4,641	5.5	2,992	58	4.9
5 to 9	798	6,291	5,157	7.9	1,220	61	5.9
10 to 19	625	7.102	7,827	11.4	907	63	6.4
20 to 49	400	9,132	11,533	22.8	792	72	5.9
50 to 99	138	6,931	8,924	50.3	777	72	7.0
100 to 249	71	5,988	9,843	84.4	608	85	6.0
250 or More	43	9,443	28,841	220.1	327	84	10.5
Weekly Operating Hours		-, -	- / -				
39 or Fewer	899	6,134	5,765	6.8	1,064	14	12.6
40 to 48	1,257	13,233	16,554	10.5	799	43	3.9
49 to 60	969	12,242	17,759	12.6	689	54	3.8
61 to 84	567	10,052	13,214	17.7	761	72	4.9
85 to 167	420	6,202	6,960	14.8	891	105	5.5
Open Continuously	466	10,908	16,514	23.4	661	168	2.0
Ownership and Occupancy							
Nongovernment Owned	4,025	46,696	60.482	11.6	772	62	3.6
Owner Occupied	3,158	35,573	46,882	11.3	759	63	4.0
Nonowner Occupied	698	9,697	13,379	13.9	725	65	6.7
Unoccupied	170	1,426	Q	8.4	6,481	Q	22.5
Government Owned	553	12,076	16,285	21.8	742	61	6.6
Predominant Exterior Wall							
Material							
Masonry	3,061	42,958	54,292	14.0	791	63	3.8
Siding or Shingles	639	3,243	3,840	5.1	844	58	9.9
Metal Panels	662	5,694	5,120	8.6	1,112	56	8.9
Concrete Panels	106	4,069	6,394	38.2	636	64	11.5
Window Glass	46	1,755	4,397	38.1	399	90	15.4
Other	50	660	2,107	13.2	313	90	24.6
No One Major Type	15	393	616	26.9	638	69	27.4
Predominant Roof Material Built-Up	1,369	24,481	33,783	17.9	725	65	4.9
Shingles (Not Wood)	1,486	11.093	13,722	7.5	808	61	7.3
Metal Surfacing	908	7,941	6,514	8.7	1,219	57	7.1
Synthetic or Rubber	351	10,235	16.788	29.1	610	68	7.2
Slate or Tile	202	1,920	2,121	9.5	905	63	11.6
Wooden Materials	152	1,130	1,087	7.5	1,039	60	18.8
Concrete	58	1,335	1,694	23.1	788	50	20.3
Other	36	332	508	9.2	655	35	30.4
No One Major Type	Q	305	549	18.6	Q	47	28.4
Energy Sources (more than one may apply)							
Electricity	4,343	57,076	76,513	13.1	746	63	3.1
Natural Gas	2,478	38,145	50,217	15.4	760	64	3.7
Fuel Oil	607	14,421	22,976	23.7	628	64	7.5
District Heat	110	5,658	10,413	51.5	543	91	11.2
District Chilled Water	53	2,521	4,441	47.7	568	88	12.9
Propane	589	5,344	7,709	9.1	693	66	12.5
Wood	126	699	547	5.6	1,278	53	18.9
Coal	Q	397	199	22.9	1,997	61	33.8
Solar	Q	Q	Q	Q	Q	Q	Q
Other	71	1,154	1,723	16.2	670	72	16.4

Table 1. Summary Table: Totals and Means of Floorspace, Number of Workers, and Hours of Operation, 1995 (Continued)

RSE Column Factor:  1.3   1.0   1.4   1.0   1.0   0.5   Row Factor	Building Characteristics	All Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Mean Square Feet per Building (thousand)	Mean Square Feet per Worker	Mean Hours per Week	RSE
	RSE Column Factor:	1.3	1.0	1.4	1.0	1.0	0.5	Row Factor
	Daniel Brasilia (1980)							
Electricity								
Natural Gas		1 467	22 156	34 032	15.1	651	66	5.7
Fuel Oil								
District Heat			,	,			-	
Propane							-	
Wood			,	,			-	
Coal Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q							-	
Solar								
Other 25 318 432 12.9 735 57 20.5  Primary Space-Heating  inergy Source    1,007								
Primary Space-Heating inergy Source Electricity								20.5
Electricity 1,007 13,500 20,602 13,4 655 68 5.5   Natural Gas 2,106 28,808 36,411 13.7 791 61 4.1   Fuel Oil 439 4,207 4,056 9.6 1,037 59 10.0   District Heat 107 5,289 9,872 49.3 536 91 11.4   Fuel Oil 2,5289 9,872 49.3 13.7 681 63 5.4   Fuel Oil 2,5289 9,872 49.3 13.7 681 63 5.4   Fuel Oil 2,5289 9,872 49.3 13.7 681 63 5.4   Fuel Oil 2,5289 9,872 49.3 13.7 681 63 5.4   Fuel Oil 2,5289 9,872 49.3 13.7 681 63 5.4   Fuel Oil 2,5289 9,872 49.3 13.7 681 63 5.4   Fuel Oil 2,5289 9,872 49.3 13.7 681 63 5.4   Fuel Oil 3,5289 9,872 49.3 13.7 681 63 5.4   Fuel Oil 3,5289 9,872 49.3 13.7 681 63 5.4   Fuel Oil 3,5289 9,872 49.3 13.7 681 63 5.4    Fuel Oil 3,5289 9,872 49.3 13.7 681 63 5.4    Fuel Oil 3,5289 9,872 49.3 13.7 681 63 5.4    Fuel Oil 3,5289 9,872 49.3 13.7 681 63 5.4    Fuel Oil 3,5289 9,872 49.3 13.7 681 63 5.4    Fuel Oil 3,5289 9,872 49.3 13.7 681 63 5.4    Fuel Oil 3,5289 9,872 49.3 13.7 681 63 5.4    Fuel Oil 3,5289 9,872 49.3 13.7 681 63 5.4    Fuel Oil 3,5289 9,872 49.3 13.7 681 63 5.4    Fuel Oil 3,5289 9,872 49.3 13.7 681 63 5.4    Fuel Oil 3,5289 9,872 49.3 13.7 681 63 5.5    Fuel Oil 3,5289 9,872 49.3 13.7 681 63 5.5    Fuel Oil 3,5289 9,872 4    Fuel Oil 4,5289 9,872 4    Fuel Oil 5,5289 9,872 4    Fuel Oil 5,5289 9,872 4    Fuel Oil 6,5289 9,872 4    Fuel Oil 6,5289 9,872	rimary Space-Heating	20	0.0	.02	0	. 55		20.0
Natural Gas		4 007	40.500	00.000	40.4	055	00	
Fuel Oil 439 4,207 4,056 9.6 1,037 59 10.0 District Heat 107 5,289 9,872 49.3 536 91 11.4 Propane 260 1,545 Q 5.9 Q 62 15.0 Wood Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q		,		,				
District Heat		,					-	
Propane								
Wood         Q			,				-	
Coal         Q							-	
Other								
Cooling Energy Sources more than one may apply)  Electricity 3,293 47,761 67,723 14.5 705 65 3.3  Natural Gas 65 1,314 2,061 20.1 638 67 15.0  District Chillled Water 53 2,521 4,441 47.7 568 88 12.9  Vater-Heating Energy Sources more than one may apply)  Electricity 1,684 23,056 33,835 13.7 681 63 5.4  Natural Gas 1,577 24,859 32,519 15.8 764 68 4.8  Fuel Oil 120 2,151 2,309 17.9 931 59 17.5  District Heat 54 3,949 7,144 73.7 553 97 12.3  Propane 110 1,020 1,165 9.2 875 94 17.8  Cooking Energy Sources more than one may apply)  Electricity 487 12,249 18,935 25.2 647 82 6.5  Natural Gas 448 13,195 20,062 29.4 658 81 6.2  Propane 123 1,480 1,813 12.0 816 84 16.0  Energy End Uses (more han one may apply)  Buildings with Space Heating 4,024 54,347 74,918 13.5 725 63 3.2  Buildings with Water Heating 3,486 51,560 72,679 14.8 709 66 3.4  Buildings with Water Heating 3,486 51,560 72,679 14.8 709 66 3.4  Buildings with Cooking 828 20,713 31,865 25.0 650 79 4.6  Buildings with Manufacturing 204 3,893 4,949 19.1 787 53 12.4								
Beletricity	Otner	Q	Q	Q	Q	Q	Q	Q
Natural Gas								
District Chilled Water   53   2,521   4,441   47.7   568   88   12.9	Electricity	3,293	47,761	67,723	14.5	705	65	3.3
Vater-Heating Energy Sources   more than one may apply	Natural Gas	65		2,061	20.1	638	67	15.0
Electricity	District Chilled Water	53	2,521	4,441	47.7	568	88	12.9
Electricity								
Natural Gas		1,684	23,056	33,835	13.7	681	63	5.4
Fuel Oil		,						4.8
District Heat		,						17.5
Cooking Energy Sources more than one may apply) Electricity	District Heat	54	3,949	7,144	73.7	553	97	12.3
More than one may apply	Propane	110	1,020	1,165	9.2	875	94	17.8
Electricity								
Natural Gas		487	12.249	18,935	25.2	647	82	6.5
Propane     123     1,480     1,813     12.0     816     84     16.0       Energy End Uses (more han one may apply)     Buildings with Space Heating	•		,	,			-	
han one may apply)  Buildings with Space Heating				,				16.0
Buildings with Space Heating     4,024     54,347     74,918     13.5     725     63     3.2       Buildings with Cooling     3,381     49,935     71,146     14.8     702     66     3.3       Buildings with Water Heating     3,486     51,560     72,679     14.8     709     66     3.4       Buildings with Cooking     828     20,713     31,865     25.0     650     79     4.6       Buildings with Manufacturing     204     3,893     4,949     19.1     787     53     12.4       Buildings with Electricity								
Buildings with Cooling     3,381     49,935     71,146     14.8     702     66     3.3       Buildings with Water Heating     3,486     51,560     72,679     14.8     709     66     3.4       Buildings with Cooking     828     20,713     31,865     25.0     650     79     4.6       Buildings with Manufacturing     204     3,893     4,949     19.1     787     53     12.4       Buildings with Electricity		4.004	E4 0 17	74.040	40.5	705	60	
Buildings with Water Heating       3,486       51,560       72,679       14.8       709       66       3.4         Buildings with Cooking       828       20,713       31,865       25.0       650       79       4.6         Buildings with Manufacturing       204       3,893       4,949       19.1       787       53       12.4         Buildings with Electricity       10,10								
Buildings with Cooking       828       20,713       31,865       25.0       650       79       4.6         Buildings with Manufacturing       204       3,893       4,949       19.1       787       53       12.4         Buildings with Electricity       10.1       1		,						
Buildings with Manufacturing 204 3,893 4,949 19.1 787 53 12.4 Buildings with Electricity								
Buildings with Electricity								
	3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	204	3,893	4,949	19.1	787	53	12.4
	bulluings with Electricity							

Table 1. Summary Table: Totals and Means of Floorspace, Number of Workers, and Hours of Operation, 1995 (Continued)

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Building Characteristics	All Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Mean Square Feet per Building (thousand)	Mean Square Feet per Worker	Mean Hours per Week	RSE
RSE Column Factor:	1.3	1.0	1.4	1.0	1.0	0.5	Row Factor
Percent of Floorspace							
Heated							
Not Heated	554	4,425	1,849	8.0	2,394	51	14.3
1 to 50	555	6,227	4,248	11.2	1,466	49	9.8
51 to 99	633	8,868	11,519	14.0	770	69	6.8
100	2,836	39,252	59,151	13.8	664	64	3.7
Percent of Floorspace							
Cooled  Not Cooled	1,198	8,837	5,620	7.4	1,572	49	8.8
1 to 50	930	15,027	12,404	16.2	1,211	57	6.1
51 to 99	635	12,549	19,278	19.8	651	73	6.3
100	1,816	22,359	39,464	12.3	567	68	4.8
Percent Lit when Open							
Zero	36	189	Q	5.2	Q	57	26.4
1 to 50	666	6,008	2,670	9.0	2,250	62	6.8
51 to 99	745 2,814	9,692 40,514	12,055 61,743	13.0 14.4	804 656	61 65	6.7 3.8
Building Not in Use/	2,014	40,514	01,743	14.4	636	65	3.0
Electricity Not Used	318	2,369	253	7.5	9,344	33	21.0
Percent Lit when Closed							
Zero	1,644	13,101	12,689	8.0	1,033	42	6.0
1 to 50	2,109	30,711	44,878	14.6	684	59	4.1
51 to 100	87	1,914	2,574	22.0	744	74	14.2
Never Closed	421	10,677	16,372	25.4	652	168	*
Building Not in Use/ Electricity Not Used	318	2,369	253	7.5	9,344	33	21.0
•		_,			-,		
Heating Equipment (more							
than one may apply)	394	5,843	0.452	14.8	638	63	7.5
Furnaces	1,676	14,923	9,153 17,488	8.9	853	60	6.2
Individual Space Heaters	1,188	16,809	21,127	14.1	796	57	6.5
District Heat	115	5,911	10,690	51.5	553	91	11.0
Boilers	610	16,754	24,573	27.5	682	73	6.6
Packaged Heating Units	1,031	16,893	23,460	16.4	720	68	5.1
Other	161	6,249	11,092	38.8	563	61	10.8
Cooling Equipment (more than							
one may apply) Residential-Type Central							
Air Conditioners	878	9,238	13,813	10.5	669	65	7.7
Heat Pumps	457	6,931	10,724	15.2	646	65	7.3
Individual Air Conditioners	862	12,494	14,184	14.5	881	68	6.3
District Chilled Water	53	2,521	4,441	47.7	568	88	12.9
Central Chillers	109	11,065	21,055	101.4	526	87	7.6
Packaged Air Conditioning Units	1,431	26,628	38,210	18.6	697	69	4.2
Swamp Coolers	1,431	20,028	2,800	13.2	876	66	13.6
Other	18	949	1,579	51.9	601	74	15.1
ighting Equipment Types							
Incandescent	2,479	35,715	49,241	14.4	725	65	4.0
Standard Fluorescent	3,885	53,984	74,912	13.9	721	65	3.1
Compact Fluorescent	364	14,273	25,623	39.2	557	85	6.4
High-Intensity Discharge	393	16,259	21,898	41.4	742	72	6.6
Halogen	302	9,665	16,479	32.0	587	78	9.8
Other	30	554	1,211	18.7	458	44	34.1

Table 1. Summary Table: Totals and Means of Floorspace, Number of Workers, and Hours of Operation, 1995 (Continued)

Building Characteristics  RSE Column Factor:  Water-Heating Equipment (more han one may apply) Centralized System Combination of Centralized and Distributed System  Personal Computers and/or Computer Terminals None 1 to 4 5 to 9 10 to 19 20 to 49	All Buildings (thousand) 1.3 2,671 742 73	Total Floorspace (million square feet)  1.0	Total Workers in All Buildings (thousand) 1.4	Mean Square Feet per Building (thousand)	Mean Square Feet per Worker	Mean Hours per Week	RSE Row Factor
Vater-Heating Equipment (more han one may apply) Centralized System	2,671 742	31,656 16,495		1.0	1.0	0.5	
han one may apply) Centralized System Distributed System Combination of Centralized and Distributed System Personal Computers and/or Computer Terminals None 1 to 4 5 to 9 10 to 19	742	16,495	42 093				
han one may apply) Centralized System Distributed System Combination of Centralized and Distributed System Personal Computers and/or Computer Terminals None 1 to 4 5 to 9 10 to 19	742	16,495	42 093				
Centralized System	742	16,495	42 093				
Distributed System	742	16,495		11.9	752	65	3.8
Combination of Centralized and Distributed System	73		25,678	22.2	642	71	6.4
and Distributed System  Personal Computers and/or Computer Terminals  None	73						
Computer Terminals  None		3,409	4,909	46.4	694	73	12.8
Computer Terminals  None							
1 to 4							
5 to 9	2,039	12,571	8,017	6.2	1,568	54	6.3
10 to 19	1,408	11,401	11,593	8.1	983	68	7.4
	437	5,372	6,528	12.3	823	66	7.4
20 to 40	344	5,947	7,456	17.3	798	61	8.5
	198	7,048	8,647	35.6	815	69	7.5
50 to 99	81	4,938	7,442	61.2	663	71	8.3
100 to 249	46	5,189	8,426	112.9	616	84	7.4
250 or More	26	6,307	18,657	240.9	338	92	6.7
Energy-Related Space Functions							
more than one may apply)	000	20.742	24.005	25.0	CEO	70	4.6
Commercial Food Preparation Computer Room	828 234	20,713 12,890	31,865 25,663	25.0 55.0	650 502	79 72	4.6 5.9
Activities with Large	234	12,090	25,005	33.0	302	12	3.9
Amounts of Hot Water	243	6,753	9,804	27.8	689	99	12.2
Building Shell Conservation							
eatures (more than one							
nay apply)							
Roof or Ceiling Insulation	3,380	46,355	65,811	13.7	704	64	3.6
Wall Insulation	2,372	31,694	48,470	13.4	654	62	4.1
Storm or Multiple Glazing	1,897	28,876	42,927	15.2	673	66	4.6
Tinted, Reflective or							
Shading Glass	1,202	24,245	41,824	20.2	580	66	5.1
Exterior or Interior Shading or Awnings	2,271	37 209	55 742	16.4	668	65	3.7
Snauling of Awrilings	۷,۷۱	37,208	55,742	10.4	000	00	3.1
IVAC Conservation Features more than one may apply)							
Variable Air-Volume System	327	13,473	24,381	41.2	553	76	6.7
Economizer Cycle	461	16,550	28,903	35.9	573	76 75	5.7
HVAC Maintenance	2,403	43,134	64,503	18.0	669	68	3.8
Other Energy Efficient	_, 100	.0,.01	0.,500	. 5.0	500	55	0.0
Equipment	198	6,453	11,369	32.5	568	66	10.2
ighting Conservation Features							
more than one may apply)	7.40	47.000	00.000	00.0	007	60	
Specular Reflectors	749	17,868	28,063	23.9	637	69	5.9
Energy-Efficient Ballasts	1,363	28,375	46,204	20.8	614	67	5.1
Natural Lighting Control Sensors	227	6 424	10.220	27.0	600	00	40.0
	237 131	6,431 5,958	10,339 11.564	27.2 45.6	622 515	83 66	10.2 11.1
Occupancy Sensors Time Clock	467	5,958 13,262	11,564 22,355	45.6 28.4	593	73	6.5
Manual Dimmer Switches	501	13,262	19,931	26.1	655	69	6.0
Other	79	2,836	4,501	35.8	630	71	13.2

Table 1. Summary Table: Totals and Means of Floorspace, Number of Workers, and Hours of Operation, 1995 (Continued)

Building Characteristics	All Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Mean Square Feet per Building (thousand)	Mean Square Feet per Worker	Mean Hours per Week	RSE
RSE Column Factor:	1.3	1.0	1.4	1.0	1.0	0.5	Row Factor
Energy Conservation Features							
(more than one may apply) Any Conservation Features	4,075	55,288	75,532	13.6	732	63	3.2
Building Shell		53,190	74,162	13.6	717	63	3.3
HVAC		44,657	65,999	17.7	677	68	3.7
Lighting	2,084	38,537	58,423	18.5	660	67	4.2
Off-Hour Equipment Reduction (more than one may apply)							
Heating	3,211	38,326	51,920	11.9	738	52	3.5
Cooling		35,605	50,080	13.2	711	54	3.5
Lighting	3,753	44,937	59,715	12.0	753	52	3.4

Q = Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.

\* = Value rounds to zero in the units displayed.

\* = Value rounds to zero in the units displayed.

Notes: • To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See

Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1995 Commercial Buildings

Energy Consumption Survey.

Table 2. Summary Table: Totals and Medians of Floorspace, Number of Workers, Hours of Operation, and Age of Building, 1995

Characteristics   All Buildings   Roll of the square (thousand)   Characteristics   Roll of the square (thousand)   Characteristics   Roll of the square (thousand)   Characteristics   Roll of the square (thousand)   Roll		1041001	Operatio	,, and ,,	.go oi Bai			_
Building Floorspace   (Square Feet)	Characteristics	Buildings	Floorspace (million square	Workers in All Buildings	Square Feet per Building	Square Feet per	Hours per	Median Age of Buildings (years)
Building Floorspace   Square Feet   1,001 to 5,000			•	•				•
Building Floorspace   Square Feet   1,001 to 5,000								
	All Buildings	4,579	58,772	76,767	5.0	938	50	30.5
1,001 to 5,000								
5,001 to 10,000	` '	2 399	6.338	10 585	2.5	750	48	30.5
1,0,001 to 25,000								35.5
50,001 to 100,000						,		27.5
100,001 to 200,000	25,001 to 50,000	213	7,676	10,206	35.0	1,125	56	26.5
200,001 to 500,000	50,001 to 100,000	115	7,968	9,733	65.0	1,316	60	25.5
Principal Building Activity   Section   Sect	100,001 to 200,000	48	6,776	8,493	140.0	1,500	75	26.5
Principal Building Activity			,	,		,		25.5
Education   309   7,740   10,096   8.5   1,000   45   33     Food Sales   137   642   652   2.5   1,001   99   25     Food Service   285   1,353   2,342   3.0   667   81   22     Food Service   105   2,333   4,483   4,5   650   52   23     Lodging   158   3,618   2,748   9.0   2,267   168   33     Mercantile and Service   1,289   12,728   13,464   4.0   1,083   52   38     Mercantile and Service   1,289   12,728   13,464   4.0   1,083   52   38     Mercantile and Service   1,289   12,728   13,464   4.0   1,083   52   38     Mercantile and Service   1,289   12,728   13,464   4.0   1,083   52   38     Mercantile and Service   1,289   12,728   13,464   4.0   1,083   52   38     Mercantile and Service   1,289   12,728   13,464   4.0   1,083   52   38     Mercantile and Service   1,289   12,728   13,464   4.0   1,083   52   38     Mercantile and Service   87   1,271   1,703   5.0   875   2.0   33     Religious Worship   269   2,792   3,844   8.0   3,125   20   33     Religious Worship   269   2,792   3,844   8.0   3,125   20   33     Warehouse and Storage   580   8,481   4,904   5.5   2,000   48   18     Other   67   1,004   1,844   5.0   1,000   50   26     Vacant   261   2,384   638   4.0   1,000   50   26     Vacant   261   2,384   638   5.5   1,250   48   38     1920 to 1946   5562   6,710   7,352   4.8   1,000   48   64     1946 to 1959   867   9,298   10,220   4.3   1,000   48   64     1946 to 1959   867   9,298   10,220   4.3   1,000   48   44     1990 to 1979   813   11,333   15,039   5.0   875   51   22     1980 to 1989   846   12,252   20,200   5.0   882   50   10     1990 to 1992   218   2,590   3,500   3.5   667   50   48     1993 to 1995   202   2,059   2,008   3.5   1,250   50   38      Floors	Over 500,000	6	5,313	9,604	700.0	813	84	24.5
Food Sales	Principal Building Activity							
Food Service	Education		,	,		,		33.5
Health Care								25.5
Lodging				,				22.5
Mercantile and Service								23.5
Office 705 10.478 27.053 4.0 464 45 22 Public Assembly 326 3.948 27.053 4.0 1,500 50 31 Public Assembly 326 3.948 2.997 6.0 1,500 50 31 Public Order and Safety 87 1,271 1,703 5.0 875 20 33 Religious Worship 269 2,792 3.844 8.0 3,125 20 33 Warehouse and Storage 580 8.481 4.904 5.5 2,000 48 16 Other 67 1,004 1,844 5.0 1,000 50 26 Vacant 261 2,384 638 4.0 1,000 50 26 Vacant 261 2,384 638 4.0 1,000 50 36 26 Vacant 261 2,384 638 4.0 1,000 50 36 26 Vacant 261 2,384 638 4.0 1,000 48 48 48 1919 or Before 353 3,673 3,658 5.5 1,250 48 93 1920 to 1945 562 6,710 7,352 4.8 1,000 48 66 1946 to 1959 867 9,298 10,220 4.3 1,000 48 66 1946 to 1959 867 9,298 10,220 4.3 1,000 48 44 1960 to 1969 718 10,858 14,389 5.5 893 50 31 1970 to 1979 813 11,333 15,039 5.0 875 51 20 1990 to 1992 218 2,590 3,900 3.5 667 50 42 1993 to 1995 22 2,059 2,008 3.5 1,250 50 17 1993 to 1999 20 218 2,590 3,900 3.5 667 50 42 1993 to 1995 202 2,059 2,008 3.5 1,250 50 17 1993 to 1995 202 2,059 2,008 3.5 1,250 50 17 1993 to 1995 202 2,059 2,008 3.5 1,250 50 17 1990 1990 1992 218 2,590 3,900 3.5 667 50 42 1993 to 1995 202 2,059 2,008 3.5 1,250 50 17 1990 1990 1992 218 2,590 3,900 3.5 667 50 42 1990 to 1990 1992 218 2,590 3,900 3.5 667 50 42 1990 to 1990 1992 218 2,590 3,900 3.5 667 50 42 1990 to 1990 1990 1990 1990 1990 1990 1990 199								30.5
Public Assembly 326 3,948 2,997 6.0 1,500 50 33 Public Order and Safety 87 1,271 1,703 5.0 875 20 32 Religious Worship 269 2,792 3,844 8.0 3,125 20 33 Warehouse and Storage 580 8,481 4,904 5.5 2,000 48 18 Other 67 1,004 1,844 5.0 1,000 50 22 Vacant 261 2,384 638 4.0 1,000 50 22 Vacant 261 2,384 638 4.0 1,000 50 22 Vacant 261 2,384 638 4.0 1,000 50 35 22 Vacant 261 2,384 638 4.0 1,000 48 862 494 1919 or Before 353 3,673 3,658 5.5 1,250 48 93 1920 to 1945 562 6,710 7,352 4.8 1,000 48 63 1946 to 1959 867 9,298 10,220 4.3 1,000 48 63 1946 to 1959 867 9,298 10,220 4.3 1,000 48 42 1960 to 1969 718 10,858 14,889 5.5 893 50 33 1970 to 1979 813 11,333 15,039 5.0 875 51 20 1980 to 1989 846 12,252 20,200 5.0 872 50 11 290 to 1992 218 2,590 3,900 3.5 667 50 42 1933 to 1995 202 2,059 2,008 3.5 1,250 50 11 250 Floors  Floors  One 3,018 24,552 25,372 3.8 929 48 25 170  1,000 60 42 1948 8,789 14,576 25.0 1,000 60 42 1940 1940 1940 1940 1940 1940 1940 1940			,			,		35.5
Public Order and Safety 87 1,271 1,703 5.0 875 20 33 Religious Worship 269 2,792 3,844 8.0 3,125 20 31 Warehouse and Storage 580 8,481 4,904 5.5 2,000 48 16 Other 67 1,004 1,844 5.0 1,000 50 26 Vacant 261 2,384 638 4.0 1,000 0 38  Vear Constructed  1919 or Before 353 3,673 3,658 5.5 1,250 48 93 1920 to 1945 562 6,710 7,352 4.8 1,000 48 66 1946 to 1959 867 9,298 10,220 4.3 1,000 48 42 1960 to 1969 718 10,858 14,389 5.5 893 50 31 1970 to 1979 813 11,333 15,039 5.0 875 51 22 1980 to 1989 846 12,252 20,200 5.0 882 50 10 1990 to 1992 218 2,590 3,900 3.5 667 50 10 1993 to 1993 2 202 2,059 2,008 3.5 1,250 50 1  Floors  One 3,018 24,552 25,372 3.8 929 48 25 Two 1,002 14,122 17,979 7.0 882 50 35 Three 399 7,335 8,464 9.5 1,250 52 57 Four to Nine 148 8,789 14,576 25.0 1,000 60 42 Ten or More 12 3,375 10,376 200.0 429 68 26  Census Region  Northeast 725 11,883 15,149 5.0 1,000 52 38 Midwest 11,139 14,322 16,976 4.5 1,250 48 36 South 1,750 20,830 26,500 4.8 13,250 35 West 964 11,736 18,142 5.5 833 50 25  Climate Zone: 45-Year Average Fewer than 2,000 CDD and —  More than 7,000 HDD 493 5,098 5,965 4.0 938 50 25 4,000 to 5,499 HDD 1,070 15,155 21,064 5.5 1,000 50 33 4,000 to 5,499 HDD 1,103 13,491 20,560 5.0 800 50 22  More than 4,000 CDD and —  More than 7,000 HDD 975 14,597 16,896 5.0 1,000 50 33 4,000 to 5,499 HDD 1,107 15,155 21,064 5.5 1,000 50 32 Ever than 4,000 CDD and —  More than 4,000 CDD and —								23.5
Religious Worship 269 2,792 3,844 8.0 3,125 20 31 Warehouse and Storage 580 8,481 4,904 5.5 2,000 48 118 Chter 67 1,004 1,844 5.0 1,000 50 26 Vacant 261 2,384 638 4.0 1,000 0 33				,				31.5 32.5
Warehouse and Storage         580         8,481         4,904         5.5         2,000         48         11           Other         67         1,004         1,844         5.0         1,000         50         26           Veacant         261         2,384         638         4.0         1,000         50         35           Year Constructed         1919 or Before         353         3,673         3,658         5.5         1,250         48         93           1920 to 1945         562         6,710         7,352         4.8         1,000         48         62           1946 to 1959         867         9,298         10,220         4.3         1,000         48         64           1960 to 1969         718         10,858         14,389         5.5         893         50         33           1970 to 1979         813         11,333         15,039         5.0         852         50         10           1980 to 1989         846         12,252         20,200         5.0         882         50         10           1993 to 1995         202         2,059         2,008         3.5         1,250         50         4	•		,	,				31.5
Other         67         1,004         1,844         5.0         1,000         50         26           Vacant         261         2,384         638         4.0         1,000         50         26           Year Constructed         1919 or Before         353         3,673         3,658         5.5         1,250         48         93           1920 to 1945         562         6,710         7,352         4.8         1,000         48         62           1946 to 1959         867         9,298         10,220         4.3         1,000         48         42           1960 to 1969         718         10,858         14,389         5.5         893         50         31           1970 to 1979         813         11,333         15,039         5.0         875         51         20           1990 to 1992         218         2,590         3,900         3.5         667         50         4           1993 to 1995         202         2,059         2,008         3.5         1,250         50         1           Floors         50         4         2,550         3,000         3.5         1,250         50         1						-,		18.5
Vacant         261         2,384         638         4.0         1,000         0         35           Year Constructed         1919 or Before         353         3,673         3,658         5.5         1,250         48         93           1920 to 1945         562         6,710         7,352         4.8         1,000         48         62           1946 to 1959         867         9,298         10,220         4.3         1,000         48         42           1960 to 1969         718         10,858         14,339         5.5         893         50         33           1970 to 1979         813         11,333         15,039         5.0         875         51         20           1990 to 1989         846         12,252         20,200         5.0         882         50         10           1990 to 1992         218         2,590         3,900         3.5         667         50         4           1993 to 1995         202         2,059         2,008         3.5         1,250         50         1           Flower         3,018         24,552         25,372         3.8         929         48         25			,					26.5
1919 or Before 353 3,673 3,658 5.5 1,250 48 93 1920 to 1945 5562 6,710 7,352 4.8 1,000 48 62 1946 to 1959 867 9,298 10,220 4.3 1,000 48 42 1960 to 1969 718 10,858 14,389 5.5 893 50 31 1970 to 1979 813 11,333 15,039 5.0 875 51 20 1980 to 1989 846 12,252 20,200 5.0 882 50 11 1990 to 1992 218 2,590 3,900 3.5 667 50 4 1993 to 1995 202 2,059 2,008 3.5 1,250 50 1 1 1,000 1992 20,008 20,008 3.5 1,250 50 1 1 1,000 1992 30 1995 202 2,059 2,008 3.5 1,250 50 1 1 1,000 1992 30 1995 30				,	4.0	,	0	39.5
1919 or Before 353 3,673 3,658 5.5 1,250 48 93 1920 to 1945 5562 6,710 7,352 4.8 1,000 48 62 1946 to 1959 867 9,298 10,220 4.3 1,000 48 42 1960 to 1969 718 10,858 14,389 5.5 893 50 31 1970 to 1979 813 11,333 15,039 5.0 875 51 20 1980 to 1989 846 12,252 20,200 5.0 882 50 11 1990 to 1992 218 2,590 3,900 3.5 667 50 4 1993 to 1995 20 2,059 2,008 3.5 1,250 50 1 1,250 1 1,2	Year Constructed							
1920 to 1945		353	3 673	3 658	5.5	1 250	48	93.5
1946 to 1959								62.5
1960 to 1969			,	,		,		42.5
1980 to 1989	1960 to 1969	718			5.5		50	31.5
1990 to 1992	1970 to 1979	813	11,333	15,039	5.0	875	51	20.5
Floors  One 3,018 24,552 25,372 3.8 929 48 25 Two 1,002 14,122 17,979 7.0 882 50 35 Three 399 7,335 8,464 9.5 1,250 52 57 Four to Nine 148 8,789 14,576 25.0 1,000 60 42 Ten or More 12 3,975 10,376 200.0 429 68 28  Census Region  Northeast 725 11,883 15,149 5.0 1,000 52 38 Midwest 1,139 14,322 16,976 4.5 1,250 48 36 South 1,750 20,830 26,500 4.8 893 50 23 West 964 11,736 18,142 5.5 833 50 26  Climate Zone: 45-Year  Average  Fewer than 2,000 CDD and  More than 7,000 HDD 975 14,597 16,896 5.0 1,100 50 32 4,000 to 5,499 HDD 1,070 15,155 21,064 5.5 1,000 50 32 More than 2,000 CDD and  More than 2,000 CDD and  More than 4,000 HDD 1,070 15,155 21,064 5.5 1,000 50 32 More than 2,000 CDD and  More than 2,000 CDD and	1980 to 1989	846	12,252	20,200	5.0	882	50	10.5
Floors           One         3,018         24,552         25,372         3.8         929         48         25           Two         1,002         14,122         17,979         7.0         882         50         35           Three         399         7,335         8,464         9.5         1,250         52         57           Four to Nine         148         8,789         14,576         25.0         1,000         60         42           Ten or More         12         3,975         10,376         200.0         429         68         28           Census Region           Northeast         725         11,883         15,149         5.0         1,000         52         38           Midwest         1,139         14,322         16,976         4.5         1,250         48         36           South         1,750         20,830         26,500         4.8         893         50         23           West         964         11,736         18,142         5.5         833         50         25           Climate Zone: 45-Year           Average           Fewer than 2,00			,	,				4.5
One         3,018         24,552         25,372         3.8         929         48         25           Two         1,002         14,122         17,979         7.0         882         50         35           Three         399         7,335         8,464         9.5         1,250         52         57           Four to Nine         148         8,789         14,576         25.0         1,000         60         42           Ten or More         12         3,975         10,376         200.0         429         68         26           Census Region           Northeast         725         11,883         15,149         5.0         1,000         52         36           Midwest         1,139         14,322         16,976         4.5         1,250         48         36           South         1,750         20,830         26,500         4.8         893         50         23           West         964         11,736         18,142         5.5         833         50         28           Climate Zone: 45-Year           Average           Fewer than 2,000 CDD and	1993 to 1995	202	2,059	2,008	3.5	1,250	50	1.5
Two	Floors							
Three	One							25.5
Four to Nine			,					35.5
Census Region         725         11,883         15,149         5.0         1,000         52         38           Midwest         1,139         14,322         16,976         4.5         1,250         48         36           South         1,750         20,830         26,500         4.8         893         50         23           West         964         11,736         18,142         5.5         833         50         28           Climate Zone: 45-Year           Average           Fewer than 2,000 CDD and           More than 7,000 HDD         493         5,098         5,965         4.0         938         50         28           5,500 to 7,000 HDD         975         14,597         16,896         5.0         1,100         50         39           4,000 to 5,499 HDD         1,070         15,155         21,064         5.5         1,000         50         32           More than 2,000 CDD and         1,103         13,491         20,560         5.0         800         50         25				,		,		57.5
Census Region           Northeast         725         11,883         15,149         5.0         1,000         52         38           Midwest         1,139         14,322         16,976         4.5         1,250         48         36           South         1,750         20,830         26,500         4.8         893         50         23           West         964         11,736         18,142         5.5         833         50         28           Climate Zone: 45-Year           Average           Fewer than 2,000 CDD and           More than 7,000 HDD         493         5,098         5,965         4.0         938         50         28           5,500 to 7,000 HDD         975         14,597         16,896         5.0         1,100         50         39           4,000 to 5,499 HDD         1,070         15,155         21,064         5.5         1,000         50         32           More than 2,000 CDD and						,		42.5 28.5
Northeast		12	0,070	10,010	200.0	720	30	20.0
Midwest       1,139       14,322       16,976       4.5       1,250       48       36         South       1,750       20,830       26,500       4.8       893       50       23         West       964       11,736       18,142       5.5       833       50       28         Climate Zone: 45-Year         Average         Fewer than 2,000 CDD and         More than 7,000 HDD       493       5,098       5,965       4.0       938       50       29         5,500 to 7,000 HDD       975       14,597       16,896       5.0       1,100       50       39         4,000 to 5,499 HDD       1,070       15,155       21,064       5.5       1,000       50       32         More than 2,000 CDD and       1,103       13,491       20,560       5.0       800       50       25		705	44.000	45 440	F 0	4.000	F0	20.5
South     1,750     20,830     26,500     4.8     893     50     23       West     964     11,736     18,142     5.5     833     50     28       Climate Zone: 45-Year       Average       Fewer than 2,000 CDD and       More than 7,000 HDD     493     5,098     5,965     4.0     938     50     29       5,500 to 7,000 HDD     975     14,597     16,896     5.0     1,100     50     39       4,000 to 5,499 HDD     1,070     15,155     21,064     5.5     1,000     50     32       Fewer than 4,000 HDD     1,103     13,491     20,560     5.0     800     50     25       More than 2,000 CDD and						,		38.5
West     964     11,736     18,142     5.5     833     50     28       Climate Zone: 45-Year       Average     Fewer than 2,000 CDD and     493     5,098     5,965     4.0     938     50     28       5,500 to 7,000 HDD     975     14,597     16,896     5.0     1,100     50     39       4,000 to 5,499 HDD     1,070     15,155     21,064     5.5     1,000     50     32       Fewer than 4,000 HDD     1,103     13,491     20,560     5.0     800     50     25       More than 2,000 CDD and								36.5 23.5
Average       Fewer than 2,000 CDD and       More than 7,000 HDD		,						28.5
Average         Fewer than 2,000 CDD and         More than 7,000 HDD	Climata Zana: 45 Yaar							
More than 7,000 HDD     493     5,098     5,965     4.0     938     50     29       5,500 to 7,000 HDD     975     14,597     16,896     5.0     1,100     50     38       4,000 to 5,499 HDD     1,070     15,155     21,064     5.5     1,000     50     32       Fewer than 4,000 HDD     1,103     13,491     20,560     5.0     800     50     25       More than 2,000 CDD and								
5,500 to 7,000 HDD     975     14,597     16,896     5.0     1,100     50     39       4,000 to 5,499 HDD     1,070     15,155     21,064     5.5     1,000     50     32       Fewer than 4,000 HDD     1,103     13,491     20,560     5.0     800     50     25       More than 2,000 CDD and								
4,000 to 5,499 HDD       1,070       15,155       21,064       5.5       1,000       50       32         Fewer than 4,000 HDD       1,103       13,491       20,560       5.0       800       50       25         More than 2,000 CDD and       25       25       25       25       25       25       25       25				,				29.5
Fewer than 4,000 HDD								39.5
More than 2,000 CDD and	, ,	,						32.5
the state of the s		1,103	13,491	20,560	5.0	800	50	25.5
ו פעט ווויייייייייייייייייייייייייייייייייי		037	10.430	12 281	4 Q	950	ΔB	25.5
	1 GWEI (IIAI) 4,000 FIDD	331	10,430	12,201	7.0	330	+0	20.0

Table 2. Summary Table: Totals and Medians of Floorspace, Number of Workers, Hours of Operation, and Age of Building, 1995 (Continued)

Building Characteristics	All Buildings	Total Floorspace (million square	Total Workers in All Buildings	Median Square Feet per Building	Median Square Feet per	Median Hours per	Median Age of Buildings
RSE Column Factor:	(thousand)	feet)	(thousand)	(thousand)	Worker	Week	(years)
Workers (main shift)	2.505	42.005	4 6 4 4	2.0	4 500	40	24.5
Fewer than 5	2,505	13,885	4,641	3.0	1,583	48	31.5
5 to 9	798 625	6,291 7,102	5,157 7,827	4.8 7.5	688 600	50 50	35.5 25.5
10 to 19 20 to 49	400	9.132	11,533	7.5 16.3	542	56	26.5
50 to 99	138	6,931	8,924	37.5	563	55	24.5
100 to 249	71	5,988	9,843	55.0	400	65	23.5
250 or More	43	9,443	28,841	120.0	283	63	19.5
Wookly Operating Hours							
Weekly Operating Hours 39 or Fewer	899	6,134	5,765	4.0	1,500	8	32.5
40 to 48	1,257	13,233	16,554	4.8	833	44	32.5
49 to 60	969	13,233	17,759	4.6 5.5	833	53	29.5
61 to 84	567	10,052	13,214	6.0	1,000	72	31.5
85 to 167	420	6,202	6,960	4.3	833	102	24.5
Open Continuously	466	10,908	16,514	6.0	1,250	168	23.5
Ownership and Occupancy							
Nongovernment Owned	4,025	46,696	60,482	4.8	938	50	29.5
Owner Occupied	3,158	35,573	46,882	4.5	1,000	50 50	29.5
Nonowner Occupied	698	9,697	13,379	5.5	833	53	25.5
Unoccupied	170	1,426	13,379 Q	3.8	750	0	39.5
Government Owned	553	12,076	16,285	7.0	950	45	35.5
Dradominant Estarios Wall							
Predominant Exterior Wall Material							
Masonry	3,061	42,958	54,292	5.5	875	50	34.5
Siding or Shingles	639	3,243	3,840	2.8	800	49	32.5
Metal Panels	662	5,694	5,120	4.5	1,364	47	15.5
Concrete Panels	106	4,069	6,394	12.5	893	60	19.5
Window Glass	46	1,755	4,397	11.3	1,001	60	12.5
Other	50	660	2,107	2.5	625	81	35.5
No One Major Type	15	393	616	12.5	2,083	60	7.5
Predominant Roof Material							
Built-Up	1,369	24,481	33,783	6.0	875	51	34.5
Shingles (Not Wood)	1,486	11,093	13,722	3.5	917	48	31.5
Metal Surfacing	908	7,941	6,514	4.8	1,333	47	15.5
Synthetic or Rubber	351	10,235	16,788	8.5	750	50	32.5
Slate or Tile	202	1,920	2,121	4.8	917	45	39.5
Wooden Materials	152	1,130	1,087	6.0	1,250	50	40.5
Concrete	58	1,335	1,694	4.0	750	48	23.5
Other No One Major Type	36 Q	332 305	508 549	2.0 2.0	1,200 750	5 48	36.5 68.5
Energy Sources (more than	•	300	3.0		. 00	.0	30.0
one may apply)							
Electricity	4,343	57,076	76,513	5.0	929	50	30.5
Natural Gas	2,478	38,145	50,217	6.0	917	50	35.5
Fuel Oil	607	14,421	22,976	4.8	1,000	50	35.5
District Heat	110	5,658	10,413	12.5	944	60	36.5
District Chilled Water	53	2,521	4,441	12.5	1,250	65	30.5
Propane	589	5,344	7,709	4.0	1,000	50	20.5
Wood	126	699	547	3.3	1,500	50	32.5
Coal	Q	397	199	7.0	7,000	53	20.5
Solar	Q	Q	Q	5.5	688	53	19.5
Other	71	1,154	1,723	4.0	750	60	38.5

Table 2. Summary Table: Totals and Medians of Floorspace, Number of Workers, Hours of Operation, and Age of Building, 1995 (Continued)

Building Characteristics RSE Column Factor:	All Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Median Square Feet per Building (thousand)	Median Square Feet per Worker	Median Hours per Week	Median Age of Buildings (years)
	(	,	(	(			
Space-Heating Energy Sources							
(more than one may apply)							
Electricity	1,467	22,156	34,032	5.5	792	50	21.5
Natural Gas	2,211	31,535	40,247	5.5	917	50	35.5
Fuel Oil	504	6,606	8,211	4.0	1,000	50	38.5
District Heat	109	5,606	10,374	12.5	944	60	37.5
Propane	301	2,025	3,898	3.3	1,500	48	18.5
Wood	103	509	401	3.3	1,500	50	35.5
Coal	Q	Q	Q	3.5	500	45	20.5
Solar	Q	Q	Q	65.0	1,300	168	21.5
Other	25	318	432	3.0	750	48	36.5
Primary Space-Heating							
Primary Space-Heating Energy Source							
Electricity	1,007	13,500	20,602	5.0	750	50	20.5
Natural Gas	2,106	28,808	36,411	5.5	917	50	35.5
Fuel Oil	439	4.207	4.056	4.0	1.000	50	39.5
District Heat	107	5,289	9,872	12.5	944	60	36.5
Propane	260	1,545	9,872 Q	3.0	1,500	48	15.5
Wood	Q	1,545 Q	Q	4.0	1,563	46	36.5
Coal	Q	Q	Q	37.5	721	40	39.5
Other	Q	Q	Q	11.3	1,607	51	37.5
	~	~	~		.,00.	0.	0.10
Cooling Energy Sources							
(more than one may apply)							
Electricity	3,293	47,761	67,723	5.0	833	50	28.5
Natural Gas	65	1,314	2,061	9.5	855	50	40.5
District Chilled Water	53	2,521	4,441	12.5	1,250	65	30.5
Water-Heating Energy Sources							
(more than one may apply)							
Electricity	1,684	23,056	33,835	5.0	800	50	22.5
Natural Gas	1,577	24,859	32,519	6.0	893	54	35.5
Fuel Oil	120	2,151	2.309	4.3	875	50	39.5
District Heat	54	3.949	7.144	27.5	1.300	82	30.5
Propane	110	1,020	1,165	3.5	1,167	88	27.5
Tropano	110	1,020	1,100	0.0	1,107	00	27.0
Cooking Energy Sources							
(more than one may apply)							
Electricity	487	12,249	18,935	5.5	750	80	23.5
Natural Gas	448	13,195	20,062	8.5	800	75	33.5
Propane	123	1,480	1,813	3.3	500	84	19.5
Energy End Uses (more							
than one may apply)							
Buildings with Space Heating	4,024	54,347	74,918	5.0	893	50	30.5
Buildings with Cooling	3,381	49,935	74,916	5.0 5.0	833	50 50	28.5
Buildings with Water Heating	3,486		71,146	5.0 5.0	859	50 50	30.5
	3,466 828	51,560 20.713	72,679 31.865	5.0 7.0	800	50 72	30.5 28.5
Buildings with Cooking Buildings with Manufacturing	828 204	20,713 3,893	4,949	7.0 8.0	1,100	72 48	28.5 29.5
DUNUNUS WITH MISHURISCHILLING	204	3,093	4,949	0.0	1,100	40	∠9.5
Buildings with Electricity Generation	247	13,366	22,855	12.5	833	67	30.5

Table 2. Summary Table: Totals and Medians of Floorspace, Number of Workers, Hours of Operation, and Age of Building, 1995 (Continued)

Building Characteristics	All Buildings	Total Floorspace (million square	Total Workers in All Buildings	Median Square Feet per Building	Median Square Feet per	Median Hours per	Median Age of Buildings
RSE Column Factor:	(thousand)	feet)	(thousand)	(thousand)	Worker	Week	(years)
Percent of Floorspace							
Heated							
Not Heated		4,425	1,849	3.8	1,250	36	25.5
1 to 50		6,227	4,248	5.5	1,625	45	30.5
51 to 99		8,868 39,252	11,519 59,151	6.0 5.0	875 833	55 50	35.5 28.5
100	2,030	39,232	39,131	5.0	033	30	20.5
Percent of Floorspace							
Cooled							
Not Cooled	,	8,837	5,620	3.8	1,500	41	34.5
1 to 50		15,027	12,404	7.0	1,250	50	35.5
51 to 99		12,549	19,278	5.5	750 750	56 50	35.5
100	1,816	22,359	39,464	4.8	750	30	23.5
Percent Lit when Open							
Zero	36	189	Q	1.8	938	50	16.5
1 to 50	666	6,008	2,670	4.8	2,000	50	35.5
51 to 99		9,692	12,055	5.0	917	49	34.5
100	2,814	40,514	61,743	5.0	833	50	26.5
Building Not in Use/	240	2.260	050	4.0	4.050	0	25.5
Electricity Not Used	318	2,369	253	4.0	4,250	0	35.5
Percent Lit when Closed							
Zero	1,644	13,101	12,689	4.0	1,188	44	30.5
1 to 50	2,109	30,711	44,878	5.5	761	50	30.5
51 to 100		1,914	2,574	6.0	818	60	30.5
Never Closed	421	10,677	16,372	6.0	1,250	168	25.5
Building Not in Use/	240	2.260	050	4.0	4.050	0	25.5
Electricity Not Used	318	2,369	253	4.0	4,250	0	35.5
Heating Equipment (more							
than one may apply) Heat Pumps	394	5,843	9,153	5.0	667	48	19.5
Furnaces		14,923	17,488	4.8	938	50	34.5
Individual Space Heaters	,	16,809	21,127	5.0	1,125	49	30.5
District Heat		5,911	10,690	12.5	944	65	35.5
Boilers	610	16,754	24,573	9.0	909	53	39.5
Packaged Heating Units		16,893	23,460	5.5	750	50	21.5
Other	161	6,249	11,092	10.0	1,300	52	29.5
Cooling Equipment (more than							
one may apply)							
Residential-Type Central Air Conditioners	878	9,238	13,813	5.0	750	50	30.5
Heat Pumps		6,931	10,724	5.0	700	48	19.5
Individual Air Conditioners	862	12,494	14,184	4.5	1,125	50	40.5
District Chilled Water	53	2,521	4,441	12.5	1,250	65	30.5
Central Chillers	109	11,065	21,055	45.0	1,000	65	28.5
Packaged Air Conditioning							
Units		26,628	38,210	6.5	800	52	23.5
Swamp Coolers		2,451	2,800	4.8	792	56 60	30.5
Other	18	949	1,579	18.8	900	60	39.5
Lighting Equipment Types (more than one may apply)							
Incandescent	2.479	35,715	49,241	5.0	917	50	32.5
Standard Fluorescent	, -	53,984	74,912	5.0	889	50 50	29.5
Compact Fluorescent		14,273	25,623	11.3	750	66	23.5
High-Intensity Discharge		16,259	21,898	12.5	1,067	53	27.5
Halogen		9,665	16,479	8.0	915	60	28.5
Other	30	554	1,211	2.0	1,500	45	32.5

Table 2. Summary Table: Totals and Medians of Floorspace, Number of Workers, Hours of Operation, and Age of Building, 1995 (Continued)

<u> </u>							-
Building Characteristics RSE Column Factor:	All Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Median Square Feet per Building (thousand)	Median Square Feet per Worker	Median Hours per Week	Median Age of Buildings (years)
NOE COMMITT ACTOR.	(tilousaliu)	1001)	(tilousaliu)	(tilousaliu)	WOINE	Week	(years)
Water-Heating Equipment (more							
than one may apply)							
Centralized System	2,671	31,656	42,093	4.8	833	50	31.5
Distributed System	742	16,495	25,678	9.5	875	55	25.5
Combination of Centralized							
and Distributed System	73	3,409	4,909	10.0	1,000	50	26.5
Personal Computers and/or							
Computer Terminals							
None	2,039	12,571	8,017	3.5	1,500	45	31.5
1 to 4	1,408	11,401	11,593	4.3	900	53	30.5
5 to 9	437	5,372	6,528	6.0	600	50	23.5
10 to 19	344	5,947	7,456	8.5	563	50	25.5
20 to 49	198	7,048	8,647	20.0	694	50	25.5
50 to 99	81	4,938	7,442	40.0	625	54	29.5
100 to 249	46	5,189	8,426	65.0	600	60	24.5
250 or More	26	6,307	18,657	140.0	360	70	18.5
200 01 WOIC	20	0,007	10,007	140.0	300	70	10.0
Energy-Related Space Functions (more than one may apply)							
Commercial Food Preparation	828	20,713	31,865	7.0	800	72	28.5
Computer Room	234	12,890	25,663	16.3	654	50	19.5
Activities with Large	204	12,030	25,005	10.5	004	30	13.5
Amounts of Hot Water	243	6,753	9,804	8.0	882	85	31.5
Amounts of Flot Water	240	0,700	3,004	0.0	002	00	01.0
Building Shell Conservation							
Features (more than one							
may apply)							
	3,380	46 2EE	GE 011	5.0	875	50	26.5
Roof or Ceiling Insulation		46,355	65,811				
Wall Insulation	2,372	31,694	48,470	5.0	833	50	21.5
Storm or Multiple Glazing	1,897	28,876	42,927	5.5	813	50	26.5
Tinted, Reflective or		0.4.0.4.					
Shading Glass	1,202	24,245	41,824	6.0	750	50	21.5
Exterior or Interior							
Shading or Awnings	2,271	37,208	55,742	6.0	813	50	28.5
HVAC Conservation Features							
(more than one may apply)							
Variable Air-Volume System	327	13,473	24,381	12.5	750	50	23.5
Economizer Cycle	461	16,550	28,903	10.0	800	57	21.5
HVAC Maintenance	2,403	43,134	64,503	6.0	833	51	28.5
Other Energy Efficient							
Equipment	198	6,453	11,369	7.0	688	55	23.5
Lighting Conservation Features							
(more than one may apply)							
Specular Reflectors	749	17,868	28,063	6.0	1,000	50	28.5
Energy-Efficient Ballasts	1,363	28,375	46,204	6.0	750	50	25.5
Natural Lighting Control	•	,	•				
Sensors	237	6,431	10,339	8.0	885	63	28.5
Occupancy Sensors	131	5,958	11,564	12.5	1,111	50	38.5
Time Clock	467	13,262	22,355	8.0	724	55	27.5
	501	13,056	19,931	9.5	1,100	55 55	26.5
Manual Dimmer Switches			13.301	5.5	1.100	JJ	20.3
Manual Dimmer Switches Other	79	2,836	4,501	10.0	688	60	20.5

Table 2. Summary Table: Totals and Medians of Floorspace, Number of Workers, Hours of Operation, and Age of Building, 1995 (Continued)

Building Characteristics RSE Column Factor:	All Buildings (thousand)	Total Floorspace (million square feet)	Total Workers in All Buildings (thousand)	Median Square Feet per Building (thousand)	Median Square Feet per Worker	Median Hours per Week	Median Age of Buildings (years)
Energy Conservation Features (more than one may apply) Any Conservation Features Building Shell HVAC Lighting	4,075	55,288	75,532	5.0	900	50	29.5
	3,906	53,190	74,162	5.0	875	50	28.5
	2,529	44,657	65,999	6.0	850	50	28.5
	2,084	38,537	58,423	6.0	875	51	28.5
Off-Hour Equipment Reduction (more than one may apply) Heating Cooling Lighting	3,211	38,326	51,920	4.8	875	48	30.5
	2,707	35,605	50,080	5.0	833	50	28.5
	3,753	44,937	59,715	5.0	889	48	30.5

Q = Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.

<sup>\* =</sup> Value rounds to zero in the units displayed.

Notes: • To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary

For explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1995 Commercial Buildings Energy Consumption Survey.