Table 3.12. Consumption and Gross Energy Intensity for Sum of Major Fuels in Older Buildings by Year Constructed, 1992

Building Characteristics		Si	um of Major F Consumptior (trillion Btu)	ı		tal Floorspace Buildings Ilion square fo		for S	nergy Intens um of Major usand Btu/s	Fuels	
RSE Column Factor:   1.1   1.2   1.1   0.8   1.0   0.9   0.9   1.0   1.0   Factor Fa			1960-1969	1970-1979		1960-1969	1970-1979		1960-1969	1970-1979	<b>D05</b>
Building Floorspace (square feet)	RSE Column Factor:	1.1	1.2	1.1	0.8	1.0	0.9	0.9	1.0	1.0	Row
1,001 to 5,000	All Buildings	1,798	1,125	1,261	24,462	12,612	14,014	73.5	89.2	90.0	7.45
5,001 to 10,000		224	440	400	0.000	4.407	4.500	05.0		407.0	
10,001 to 25,000   303   197   208   4,092   1,892   1,902   74.3   103.9   109.3   15.16											
25,001 to 50,000											
50,001 to 100,000											
100,001 to 200,000											
200,001 to 500,000											
Principal Building Activity											
Education											
Food Selvice 126 38 8 83 734 187 365 140,5 Q 213,3 28.15 FOOD Selvice 126 38 8 83 734 187 365 171.8 203.1 227.7 21.66 Health Care 109 110 124 397 492 544 273,3 224.0 228.6 22.50 Lodging 152 69 76 934 482 579 162.2 114.2 131.1 20.36 Mercantile and Service 254 220 218 3.925 2.680 2.607 64.8 82.0 83.7 15.39 Office 426 224 258 3.941 2.187 2.283 109.2 102.2 113.1 17.38 Parking Garage Q Q Q Q Q G G G G G G G G G G G G G G		0.40	400	450	0.404	0.405	4 700	70.0		07.0	40.00
Food Service						,	,				
Health Care											
Lodging											
Mercartille and Service											
Office	0 0										
Parking Garage					,	,	,				
Public Assembly		Q	Q	Q		,			Q		
Religious Worship		69	44	103	1,148	552	1,096	60.5	80.2	94.0	18.11
Warehouse and Storage	Public Order and Safety							86.0		85.3	32.51
China   Chin					,						
Vacant   G9											
Northeast											
Northeast	Census Region and Division										
New England		448	243	198	6,453	2,485	2,123	69.5	97.9	93.5	15.10
Midwest											
East North Central   396   203   203   4,690   1,861   2,350   84,5   109.2   86.3   12.83	Middle Atlantic	328	200	120	5,020	2,048	1,490	65.4	97.4	80.7	20.11
West North Central						2,652					
South   South   South   Alantic   238   204   178   2,576   2,667   2,267   92.4   76.4   78.4   21.20											
South Atlantic   238   204   178   2,576   2,667   2,267   92.4   76.4   78.4   21.20											
East South Central 112 62 106 1,740 907 1,195 64.4 68.4 88.6 19.25 West South Central 170 115 167 3,185 1,340 1,478 53.4 86.0 112.9 27.22 West South Central 258 196 264 3,619 2,562 2,865 71.4 76.3 92.2 14.57 Mountain 108 56 72 1,106 670 699 97.6 83.3 103.0 22.23 Pacific 150 140 192 2,513 1,892 2,166 59.8 73.9 88.7 18.65   Climate Zone: 45-Year Average Fewer than 2,000 CDD and More than 7,000 HDD 154 107 137 2,228 842 1,531 69.1 126.5 89.2 19.19 5,500-7,000 HDD 644 307 339 7,981 2,815 3,619 80.7 109.0 93.5 12.76 4,000-5,499 HDD 525 278 220 6,680 3,363 2,825 78.6 82.6 77.9 15.44 Fewer than 4,000 HDD 230 306 336 4,236 2,990 3,656 54.3 102.3 91.9 19.22 More than 2,000 CDD and Fewer than 4,000 HDD 245 128 229 3,337 2,602 2,382 73.4 49.1 96.3 21.47 Energy Sources (more than one may apply)  Electricity 1,798 1,125 1,261 23,642 12,473 13,779 76.1 90.2 91.5 7.22 Natural Gas 1,444 877 1,007 17,059 8,871 9,217 84.7 98.8 109.2 9.19 Fuel Oil 461 288 340 4,503 2,363 2,363 2,735 102.3 121.7 124.3 15.44 District Heat 295 232 131 1,967 1,419 976 150.0 163.2 134.6 21.07 Propane 71 36 63 943 642 786 75.0 56.2 79.7 26.17											
West South Central         170         115         167         3,185         1,340         1,478         53.4         86.0         112.9         27.22           West         258         196         264         3,619         2,562         2,865         71.4         76.3         92.2         14.57           Mountain         108         56         72         1,106         670         699         97.6         83.3         103.0         22.23           Pacific         150         140         192         2,513         1,892         2,166         59.8         73.9         88.7         18.65           Climate Zone: 45-Year Average           Fewer than 2,000 CDD and         154         107         137         2,228         842         1,531         69.1         126.5         89.2         19.19         5,500-7,000 HDD         644         307         339         7,981         2,815         3,619         80.7         109.0         93.5         12.76         89.2         19.19         5,500-7,000 HDD         525         278         220         6,680         3,363         2,825         78.6         82.6         77.9         15.44           Fewer than 4,000 HDD         230<											
West         258         196         264         3,619         2,562         2,865         71.4         76.3         92.2         14.57           Mountain         108         56         72         1,106         670         699         97.6         83.3         103.0         22.23           Pacific         150         140         192         2,513         1,892         2,166         59.8         73.9         88.7         18.65           Climate Zone: 45-Year Average           Fewer than 2,000 CDD and											
Mountain         108         56         72         1,106         670         699         97.6         83.3         103.0         22.23           Pacific         150         140         192         2,513         1,892         2,166         59.8         73.9         88.7         18.65           Climate Zone: 45-Year Average           Fewer than 2,000 CDD and         154         107         137         2,228         842         1,531         69.1         126.5         89.2         19.19           5,500-7,000 HDD         644         307         339         7,981         2,815         3,619         80.7         109.0         93.5         12.76           4,000-5,499 HDD         525         278         220         6,680         3,363         2,825         78.6         82.6         77.9         15.44           Fewer than 4,000 HDD         230         306         336         4,236         2,990         3,656         54.3         102.3         91.9         19.22           More than 2,000 CDD and         245         128         229         3,337         2,602         2,382         73.4         49.1         96.3         21.47           Energy Source											
Pacific         150         140         192         2,513         1,892         2,166         59.8         73.9         88.7         18.65           Climate Zone: 45-Year Average Fewer than 2,000 CDD and More than 7,000 HDD         154         107         137         2,228         842         1,531         69.1         126.5         89.2         19.19           5,500-7,000 HDD         644         307         339         7,981         2,815         3,619         80.7         109.0         93.5         12.76           4,000-5,499 HDD         525         278         220         6,680         3,363         2,825         78.6         82.6         77.9         15.44           Fewer than 4,000 HDD         230         306         336         4,236         2,990         3,656         54.3         102.3         91.9         19.22           More than 2,000 CDD and Fewer than 4,000 HDD         245         128         229         3,337         2,602         2,382         73.4         49.1         96.3         21.47           Energy Sources (more than one may apply)         1,798         1,125         1,261         23,642         12,473         13,779         76.1         90.2         91.5         7.22 </td <td></td>											
Fewer than 2,000 CDD and  More than 7,000 HDD			4.40	100	_'				70.0		40.05
More than 7,000 HDD											
5,500-7,000 HDD       644       307       339       7,981       2,815       3,619       80.7       109.0       93.5       12.76         4,000-5,499 HDD       525       278       220       6,680       3,363       2,825       78.6       82.6       77.9       15.44         Fewer than 4,000 HDD       230       306       336       4,236       2,990       3,656       54.3       102.3       91.9       19.22         More than 2,000 CDD and		454	40-	407	0.000	0.40	4.501	00.4	100 =	00.0	40.10
4,000-5,499 HDD       525       278       220       6,680       3,363       2,825       78.6       82.6       77.9       15.44         Fewer than 4,000 HDD       230       306       336       4,236       2,990       3,656       54.3       102.3       91.9       19.22         More than 2,000 CDD and											
Fewer than 4,000 HDD 230 306 336 4,236 2,990 3,656 54.3 102.3 91.9 19.22 More than 2,000 CDD and Fewer than 4,000 HDD 245 128 229 3,337 2,602 2,382 73.4 49.1 96.3 21.47 Energy Sources (more than one may apply)  Electricity 1,798 1,125 1,261 23,642 12,473 13,779 76.1 90.2 91.5 7.22 Natural Gas 1,444 877 1,007 17,059 8,871 9,217 84.7 98.8 109.2 9.19 Fuel Oil 461 288 340 4,503 2,363 2,735 102.3 121.7 124.3 15.44 District Heat 295 232 131 1,967 1,419 976 150.0 163.2 134.6 21.07 District Chilled Water 77 75 62 652 375 480 117.5 200.5 128.3 27.43 Propane 71 36 63 943 642 786 75.0 56.2 79.7 26.17											
More than 2,000 CDD and Fewer than 4,000 HDD         245         128         229         3,337         2,602         2,382         73.4         49.1         96.3         21.47           Energy Sources (more than one may apply)         Electricity											
Fewer than 4,000 HDD		_00	500	500	.,_00	_,500	3,300	31.0	.02.0	31.0	
may apply)         Electricity         1,798         1,125         1,261         23,642         12,473         13,779         76.1         90.2         91.5         7.22           Natural Gas         1,444         877         1,007         17,059         8,871         9,217         84.7         98.8         109.2         9.19           Fuel Oil         461         288         340         4,503         2,363         2,735         102.3         121.7         124.3         15.44           District Heat         295         232         131         1,967         1,419         976         150.0         163.2         134.6         21.07           District Chilled Water         77         75         62         652         375         480         117.5         200.5         128.3         27.43           Propane         71         36         63         943         642         786         75.0         56.2         79.7         26.17	, ,	245	128	229	3,337	2,602	2,382	73.4	49.1	96.3	21.47
Natural Gas         1,444         877         1,007         17,059         8,871         9,217         84.7         98.8         109.2         9.19           Fuel Oil         461         288         340         4,503         2,363         2,735         102.3         121.7         124.3         15.44           District Heat         295         232         131         1,967         1,419         976         150.0         163.2         134.6         21.07           District Chilled Water         77         75         62         652         375         480         117.5         200.5         128.3         27.43           Propane         71         36         63         943         642         786         75.0         56.2         79.7         26.17	may apply)										
Fuel Oil       461       288       340       4,503       2,363       2,735       102.3       121.7       124.3       15.44         District Heat       295       232       131       1,967       1,419       976       150.0       163.2       134.6       21.07         District Chilled Water       77       75       62       652       375       480       117.5       200.5       128.3       27.43         Propane       71       36       63       943       642       786       75.0       56.2       79.7       26.17		,									
District Heat     295     232     131     1,967     1,419     976     150.0     163.2     134.6     21.07       District Chilled Water     77     75     62     652     375     480     117.5     200.5     128.3     27.43       Propane     71     36     63     943     642     786     75.0     56.2     79.7     26.17											
District Chilled Water         77         75         62         652         375         480         117.5         200.5         128.3         27.43           Propane         71         36         63         943         642         786         75.0         56.2         79.7         26.17											
Propane											
·											
	Any Other	23	11	14	733	Q Q	268	31.5	Q Q	53.5	25.08

Table 3.12. Consumption and Gross Energy Intensity for Sum of Major Fuels in Older Buildings by Year Constructed, 1992 (Continued)

		<del></del>			<u> </u>	<u> </u>				
	Sı	um of Major F Consumptior (trillion Btu)	า		al Floorspace Buildings Ilion square f		for S	nergy Intens um of Major usand Btu/s	Fuels	
Building Characteristics	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	DOE
RSE Column Factor:	1.1	1.2	1.1	0.8	1.0	0.9	0.9	1.0	1.0	RSE Row Factor
Energy End Uses (more than one										
may apply)										
Heated Buildings	1,762	1,084	1,240	22,055	11,548	12,814	79.9	93.9	96.7	7.46
Buildings with A/CBuildings with Water Heating	1,552 1,699	1,015 1,091	1,210 1,214	18,912 20,372	10,601 11,006	12,286 12,369	82.0 83.4	95.7 99.2	98.5 98.1	7.87 7.66
Buildings with Cooking	657	539	611	6,903	4,920	5,071	95.2	109.5	120.4	11.04
Buildings with Manufacturing	144	53	78	1,478	394	652	97.4	134.9	120.0	24.03
Madaga (main abitt)										
Workers (main shift) Less than 5	305	126	162	7,661	2,807	3,165	39.9	44.8	51.1	10.41
5 to 9	233	83	173	3,343	1,227	1,577	69.7	67.3	109.7	15.42
10 to 19	232	102	165	3,323	1,211	1,812	69.9	84.6	91.3	17.00
20 to 49	420	204	183	3,815	2,180	2,088	110.1	93.7	87.5	14.91
50 to 99 100 or More	223 385	184 426	129 449	2,890 3,430	1,685 3,502	1,424 3,949	77.1 112.2	109.2 121.6	90.4 113.8	18.87 15.44
100 of More	300	420	449	3,430	3,502	3,949	112.2	121.0	113.0	15.44
Weekly Operating Hours										
39 or Fewer	140	48	58	4,446	1,320	1,455	31.5	36.4	40.1	16.42
40 to 48	409 351	181 169	186 193	6,289 5,819	2,617 2,371	2,614 2,476	65.0 60.2	69.1 71.4	71.0 78.1	11.20 15.79
61 to 84	245	208	278	2,967	2,692	2,778	82.7	77.2	99.9	16.34
85 to 167	235	205	227	2,572	1,910	2,248	91.2	107.5	100.8	16.50
Open Continuously	418	314	320	2,369	1,701	2,444	176.6	184.4	130.8	17.10
Ownership and Occupancy										
Nongovernment Owned	1,353	730	940	19,001	8,571	10,776	71.2	85.1	87.2	8.69
Owner Occupied	1,092	618	747	14,222	6,737	8,024	76.8	91.8	93.0	8.72
Single Establishment	885	554	631	11,250	5,843	6,323	78.7	94.8	99.8	9.73
Multiple Establishment  Nonowner Occupied	207 244	64 106	116 188	2,971 3,698	894 1,491	1,701 2,435	69.6 66.0	71.9 71.3	67.9 77.1	17.71 18.39
Single Establishment	161	49	74	1,919	563	1,023	83.7	87.5	72.0	22.52
Multiple Establishment	83	57	114	1,779	928	1,411	46.9	61.5	80.8	20.47
Vacant	17	Q	Q	1,082	344	317	15.7	Q	Q	31.47
Government Owned	445	395	321	5,461	4,041	3,237	81.5	97.8	99.1	13.96
Predominant Exterior Wall Material										
Masonry	1,565	787	858	20,950	8,536	9,277	74.7	92.3	92.4	8.56
Siding or Shingles	97	32	.55	1,597	560	717	60.5	56.7	76.0	15.95
Metal Panels Concrete Panels	99 15	73 155	153 122	1,385 288	1,395 1,502	1,881 1,510	71.2 52.2	52.2 103.2	81.2 81.1	28.34 27.28
Window Glass	20	Q	52	194	463	408	103.5	141.2	126.4	28.55
Other	Q	Q	22	Q	Q	220	Q	Q	100.5	26.11
Predominant Roof Material										
Built-Up	913	637	567	11,707	6,568	5,907	78.0	96.9	96.0	10.49
Shingles (Not Wood)	309	137	135	5,059	1,570	2,142	61.2	87.0	63.3	13.11
Metal Surfacing	87	65	184	1,784	1,520	2,224	48.8	42.5	82.6	25.02
Synthetic or Rubber Other	312 177	232 55	296 79	3,646 2,265	2,139 816	2,545 1,196	85.6 78.1	108.4 67.5	116.4 65.9	15.84 19.13
Outof	177	JJ	13	۷,۷۵۵	010	1,130	70.1	07.5	00.9	13.13
Floors										
One	392	394	456	6,789	5,146	5,763	57.8	76.5	79.2	11.29
Two Three	394 385	277 149	310 200	6,339 5,262	3,872 1,365	3,661 1,963	62.2 73.1	71.4 109.1	84.7 101.9	11.56 15.36
Four to Nine	522	173	200	5,262	1,303	1,812	102.5	131.7	110.4	19.43
Ten or More	105	133	94	979	918	815	107.1	145.0	115.9	25.43
Percent Window Glass										
25 or Less	1,366	740	909	18,874	9,341	11,287	72.4	79.2	80.6	8.48
26 to 50	326	261	264	4,404	2,390	1,817	74.1	109.3	145.4	15.01
51 to 75	86	67	65	1,006	468	661	85.4	143.0	99.1	21.13
76 to 100	Q	Q	22	178	Q	249	112.9	137.3	88.0	28.67
Į.										

Table 3.12. Consumption and Gross Energy Intensity for Sum of Major Fuels in Older Buildings by Year Constructed, 1992 (Continued)

	Sı	um of Major F Consumptior (trillion Btu)	1		tal Floorspace Buildings Ilion square f		for S	nergy Intens um of Major usand Btu/s	Fuels	
Building Characteristics	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	205
RSE Column Factor:	1.1	1.2	1.1	0.8	1.0	0.9	0.9	1.0	1.0	RSE Row Factor
Building Shape	75	5.4	0.7	4.007	700	007	00.0	70.0	404.0	00.00
SquareRectangle	75 1,056	54 616	87 736	1,207 14,523	736 7,086	837 8,367	62.3 72.7	73.0 86.9	104.0 87.9	22.63 9.83
Right Angle	154	75	77	2,465	1,132	1,191	62.6	66.7	64.7	18.71
Other	512	380	361	6,266	3,658	3,619	81.7	103.8	99.8	13.03
Space-Heating Energy Sources (more than one may apply) Electricity	427	305	523	6,578	3,880	6 101	65.0	78.5	84.4	11.69
Natural Gas	1,197	736	826	14,964	7,858	6,191 7,649	80.0	93.7	108.0	9.41
Fuel Oil	333	185	184	3,549	1,505	1,484	93.8	123.2	123.8	17.37
District Heat	286	219	131	1,927	1,363	972	148.3	161.0	134.4	19.49
Propane	16	13	15	431	273	351	36.7	48.0	41.4	28.32
Wood Any Other	8 Q	Q Q	Q Q	276 Q	Q Q	Q Q	29.2 Q	Q Q	Q Q	26.82 NF
Cooling Energy Sources (more than			-		-					
one may apply)										
Electricity	1,483	961	1,089	18,222	10,231	11,375	81.4	93.9	95.7	8.08
Natural Gas	146	48	54	593	428	423	246.8	111.1	127.9	30.18
District Chilled Water	77	75	62	652	375	480	117.5	200.5	128.3	27.43
Water-Heating Energy Sources										
(more than one may apply)	431	250	E07	7.250	2 422	E 046	EO 4	75.7	05.3	11.42
Electricity Natural Gas	1,064	259 658	507 659	7,259 11,756	3,423 6,536	5,946 5,733	59.4 90.5	75.7 100.7	85.3 115.0	10.38
Fuel Oil	120	48	53	1,281	416	458	93.4	116.1	114.9	29.42
District Heat	177	190	92	1,154	1,139	664	153.2	166.9	137.9	21.75
Propane	Q	Q	Q	249	Q	Q	55.2	Q	Q	45.28
Cooking Energy Sources (more										
than one may apply)	270	205	200	0.700	0.704	0.407	400.4	407.7	444.0	40.00
Electricity Natural Gas	279 489	295 387	269 454	2,726 5,097	2,734 3,455	2,427 3,502	102.4 95.9	107.7 112.0	111.0 129.6	13.96 14.04
Propane	17	18	24	242	298	253	71.2	60.6	95.5	33.63
Percent of Floorspace Heated										
Not Heated	Q	41	21	2,408	1,064	1,200	Q	38.4	17.9	30.92
1 to 50 51 to 99	187 249	99 158	95 277	4,797 3,692	2,060 2,061	2,059 2,039	39.0 67.4	48.2 76.6	46.1 135.7	22.30 14.77
100	1,326	827	868	13,565	7,427	8,716	97.8	111.3	99.6	8.28
Percent of Floorspace Cooled										
Not Cooled	246	110	51	5,550	2,011	1,728	44.4	54.9	29.4	15.47
1 to 50	606	249	241	9,565	3,604	3,881	63.4	69.0	62.1	11.33
51 to 99	382 563	331 435	377 592	4,035 5,312	3,167 3,830	3,035 5,370	94.7 106.0	104.4 113.7	124.3 110.2	14.30 11.82
Heating Equipment (more than one										
may apply)										
Heat Pumps	167	90	166	1,934	1,055	1,783	86.5	85.6	93.1	18.26
Furnaces	494	278	273	7,344	3,367	2,982	67.2	82.7	91.7	15.34
Individual Space Heaters	494 320	337 219	434 131	7,334	3,862	5,434	67.3	87.4 161.0	79.9 134.4	11.94 21.38
District Heat Boilers	763	460	131 422	2,015 8,964	1,363 4,027	972 3,734	158.9 85.1	114.3	134.4	10.78
Packaged Heating Units	330	257	371	3,664	3,226	3,911	89.9	79.7	94.8	14.90
Other	Q	Q	45	285	Q	231	Q	Q	196.4	31.45
Heating Distribution Equipment (more than one may apply)	700	076	202	7 625	2 206	1 004	02.0	120.4	111 7	12.40
Radiators or Baseboards  Ducts for Heating	702 1,165	276 884	223 974	7,635 14,078	2,296 8,893	1,994 9,566	92.0 82.7	120.1 99.4	111.7 101.8	13.18 8.75
VAV System Used	235	306	285	2,047	2,273	2,108	114.8	134.7	135.4	18.38
Individual Space Heaters	494	337	434	7,334	3,862	5,434	67.3	87.4	79.9	11.94
Fan Coil Units or Other				.,00.						

Table 3.12. Consumption and Gross Energy Intensity for Sum of Major Fuels in Older Buildings by Year Constructed, 1992 (Continued)

	Sı	um of Major F Consumptior (trillion Btu)	1		al Floorspace Buildings Ilion square f		for S	nergy Intens um of Major usand Btu/s	Fuels	
Building Characteristics	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	RSE
RSE Column Factor:	1.1	1.2	1.1	0.8	1.0	0.9	0.9	1.0	1.0	Row Factor
Cooling Equipment (more than one may apply)										
Residential-Type Central A/C	371	170	205	4,144	1,528	1,800	89.6	111.1	113.8	19.27
Heat Pumps		115	173	1,946	1,170	1,807	85.4	98.0	95.7	17.76
Individual A/C	646	342	222	8,783	3,603	2,586	73.5	94.8	85.9	12.86
District Chilled Water	77	75	79	652	376	632	117.5	200.4	124.5	29.40
Central Chillers	407	386	385	2,854	3,032	3,306	142.6	127.4	116.5	15.31
Packaged A/C Units Swamp Coolers	741 71	497 Q	654 35	8,357 544	5,411 510	6,494 386	88.7 130.3	91.8 Q	100.8 90.6	10.49 30.44
Other	Q	Q	Q	Q	Q	Q	Q	Q	90.0 Q	NF
	~	~	~	~	~	~	~	~	~	
Cooling Distribution Equipment										
(more than one may apply)										
Ducts for Cooling	1,232	844	1,087	14,554	8,567	10,517	84.7	98.5	103.4	8.36
VAV System UsedIndividual A/C	253 646	278 342	341 222	2,168	1,853 3,603	2,715 2,586	116.8 73.5	149.9 94.8	125.6 85.9	15.61 12.86
Fan Coil Units or Other	258	209	244	8,783 1,728	1,607	2,300	149.5	129.9	110.2	20.94
Tall con office of other	250	203	244	1,720	1,007	2,211	143.3	120.0	110.2	20.54
Water-Heating Equipment (more										
than one may apply)										
Centralized System	1,128 625	634 482	764 522	12,074 8,885	5,523 5,627	6,893 6,046	93.4 70.4	114.8 85.7	110.8 86.4	9.59 11.44
Distributed System	625	482	522	8,885	5,627	6,046	70.4	85.7	86.4	11.44
Energy Conservation Features										
(more than one may apply)										
Any Conservation Features	1,740	1,119	1,253	22,581	12,053	13,464	77.1	92.8	93.0	7.45
Building Shell	1,695	1,092	1,216	21,904	11,695	12,754	77.4	93.4	95.3	7.53
HVACLighting	1,442 796	985 580	1,094 667	15,930 8.355	9,812 5,219	10,636 6,680	90.5 95.3	100.3 111.2	102.9 99.9	8.13 11.12
Other	156	127	141	0,333 1,816	1,247	1,430	95.3 85.8	101.6	98.6	17.83
2	100	121		.,510	.,,,	., .00	30.0	.01.0	50.0	
Energy Management Practices (more than one may apply)										
Energy Management and Control System	330	324	451	2,892	2,538	3,313	114.1	127.7	136.0	14.81
Demand-Side Management <sup>1</sup>	330	324	401	2,092	2,530	3,313	114.1	121.1	130.0	14.01
Participation	385	337	369	3,212	2,793	2,741	120.0	120.8	134.7	16.57
Energy Audit	493	353	365	5,283	3,060	3,331	93.3	115.2	109.6	13.63
Building Energy Manager	105	52	99	771	376	790	136.0	139.4	125.3	27.50

These Demand-Side Management (DSM) data, which include utility-sponsored programs, in-house programs, and third-party sponsored programs, were reported by the building respondent on the Building Questionnaire (Form EIA-871A). The electric utility-sponsored DSM data reported by the electricity suppliers (Form EIA-871E-1b) are presented in the "At a Glance" section and Table 3.49 of this section. See Appendix B, "Nonsampling and Sampling Errors," for a discussion of the differences between the energy supplier-reported data and building respondent-reported data.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A through F of the 1992 Commercial Buildings Energy Consumption Survey.

NF = No applicable RSE row factor.
Q = Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or data were reported for fewer than 20 buildings.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • 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. • HVAC = Heating, Ventilation, and Air Conditioning. • VAV = Variable Air Volume. • Because of rounding, data may not sum to totals.

Table 3.13. Consumption and Gross Energy Intensity for Sum of Major Fuels in Newer Buildings by Year Constructed, 1992

		ım of Major F Consumptioi (trillion Btu)	า		al Floorspace Buildings lion square f		for S	nergy Intens um of Major usand Btu/s	Fuels	
Building Characteristics	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	
RSE Column Factor:	1.0	1.2	1.3	0.7	1.1	1.0	0.8	1.1	1.0	RSE Row Factor
All Buildings	839	294	173	10,149	4,138	2,502	82.7	71.0	69.3	13.57
Building Floorspace (square feet)										
1,001 to 5,000		30	12	1,064	275	197	111.0	109.5	58.6	20.39
5,001 to 10,000		31	8	896	355	176	62.8	86.9	46.4	22.52
10,001 to 25,000 25,001 to 50,000		42 40	20 24	1,613 1,176	576 482	309 327	58.7 126.6	72.8 83.4	64.9 73.2	19.78 25.86
50,001 to 100,000		39	25	1,170	387	268	86.0	99.6	94.9	24.89
100,001 to 200,000		25	20	1,626	444	269	71.5	57.0	72.6	25.48
200,001 to 500,000		26	44	1,207	320	670	89.5	80.1	66.1	27.13
Over 500,000	83	61	20	1,237	Q	285	66.8	Q	71.1	22.59
Principal Building Activity										
Education	34	14	Q	480	173	253	71.8	81.2	57.1	24.05
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Food Service		Q	Q	103	Q	Q	330.0	Q	Q	31.17
Health Care		Q Q	Q 12	240 550	Q Q	Q 97	209.1 188.3	Q Q	Q 122.8	28.28
Lodging Mercantile and Service		33	30	2.109	535	545	65.0	62.1	54.6	33.70 20.34
Office		68	52	2,419	899	590	90.7	75.6	87.4	18.24
Parking Garage	Q	Q	Q	Q	Q	124	Q	Q	24.5	32.28
Public Assembly		Q	_19	461	Q	197	55.3	Q	97.0	28.67
Public Order and Safety		Q	Q	Q	Q	Q	Q	Q	Q	NF 25.00
Religious Worship Warehouse and Storage		Q 22	Q 12	358 2,233	Q 610	Q 377	24.3 61.0	Q 36.3	Q 30.8	25.00 24.25
Other	19	Q	Q <sup>'2</sup>	126	Q	Q Q	153.9	Q	Q	38.15
Vacant	Q	Q	Q	571	Q	77	Q	Q	Q	45.42
Census Region and Division										
Northeast	132	40	28	1,547	506	286	85.2	79.7	96.7	25.35
New England		Q	Q	497	Q	Q	56.0	Q	Q	44.77
Middle Atlantic		20	19	1,049	334	194	99.0	59.6	99.6	29.04
Midwest		53	49	2,482	500	670	101.1	105.9	73.7	20.59
East North Central West North Central		32 21	39 11	1,171 1,311	271 229	369 301	115.9 87.8	119.6 89.6	105.2 35.0	28.22 25.60
South		145	55	3,950	2,367	906	69.1	Q	61.0	17.80
South Atlantic		42	24	1,806	783	487	49.2	54.0	49.6	22.70
East South Central		30	19	915	350	268	87.3	85.4	70.9	19.96
West South Central		73	12	1,229	Q 705	151	84.9	Q 70.5	80.3	28.83
West Mountain		55 15	41 Q	2,170 793	765 229	639 148	84.7 109.3	72.5 66.2	64.0 66.7	20.69 37.19
Pacific	97	40	31	1,376	536	491	70.5	75.2	63.2	25.47
Climata Zana: 45 Van Avenana										
Climate Zone: 45-Year Average Fewer than 2,000 CDD and										
More than 7,000 HDD	59	Q	Q	757	Q	Q	78.1	Q	Q	36.53
5,500-7,000 HDD		58	59	2,328	598	681	101.0	97.8	86.1	21.92
4,000-5,499 HDD		46	40	1,998	727	569	82.5	63.7	70.9	19.92
Fewer than 4,000 HDD	176	81	48	2,509	1,125	736	70.2	72.4	65.6	18.60
More than 2,000 CDD and Fewer than 4,000 HDD	204	91	21	2,557	Q	415	79.9	Q	51.6	25.55
,		01		_,501		110	70.0	•	31.0	_5.55
Energy Sources (more than one										
may apply) Electricity	839	294	173	10,042	4,106	2,482	83.6	71.5	69.7	10.91
Natural Gas		192	136	6,265	1,957	2,462 1,625	97.1	98.3	83.6	13.15
Fuel Oil	202	70	81	2,122	748	743	95.1	93.2	108.7	19.83
District Heat		Q	Q	Q	Q	Q	Q	Q	Q	NF
District Chilled Water Propane		Q 8	19 Q	184 609	Q 201	164 212	281.6 57.6	Q 40.2	113.8 35.3	35.03 34.54
Any Other		Q°	Q	Q	Q Q	Q Q	37.6 Q	40.2 Q	35.3 Q	34.54 NF
,		•	•	•	•	•	•	•	•	. *"

Table 3.13. Consumption and Gross Energy Intensity for Sum of Major Fuels in Newer Buildings by Year Constructed, 1992 (Continued)

		<u> </u>								
		m of Major F Consumptior (trillion Btu)			al Floorspace Buildings lion square fo		for S	nergy Intens um of Major usand Btu/s	Fuels	
Building Characteristics	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	
RSE Column Factor:	1.0	1.2	1.3	0.7	1.1	1.0	0.8	1.1	1.0	RSE Row Factor
Energy End Uses (more than one may apply)							ı	ı		
Heated Buildings	819	289	170	9,398	3,878	2,303	87.2	74.6	73.9	13.90
Buildings with A/C	811	277	168	9,225	3,760	2,258	87.9	73.8	74.6	14.12
Buildings with Water Heating		286	161	8,869	3,696	2,167	91.0	77.4	74.3	14.50
Buildings with Cooking Buildings with Manufacturing	334 66	163 Q	78 Q	3,197 504	2,117 Q	859 Q	104.4 Q	Q Q	91.1 Q	19.00 38.41
Workers (main shift)					_			_		
Less than 5 5 to 9	108 107	78 19	19 7	2,177 882	Q 343	516 152	49.6 121.6	Q 56.5	37.7 46.7	22.82 24.77
10 to 19	-	37	7 17	882 1,142	343 389	201	70.7	94.9	46.7 83.2	24.77
20 to 49		52	22	1,560	514	399	86.8	100.4	54.7	23.02
50 to 99	96	32	24	1,117	347	301	86.3	92.3	78.8	25.09
100 or More	311	75	84	3,271	926	933	95.2	81.2	90.5	16.97
Weekly Operating Hours 39 or Fewer	17	Q	8	686	163	176	25.4	Q	46.6	27.97
40 to 48		35	41	2,278	646	554	69.6	54.8	74.6	21.75
49 to 60		36	37	2,104	616	661	70.6	58.5	55.4	18.59
61 to 84		45	22	2,500	709	415	65.4	63.4	53.9	20.43
85 to 167 Open Continuously	91 261	54 117	28 37	920 1,661	544 Q	273 423	98.4 156.9	99.2 Q	101.6 87.6	21.32 25.34
Ownership and Occupancy										
Nongovernment Owned		255	122	9,056	3,550	1,798	82.1	71.9	67.7	15.72
Owner Occupied		151	98	6,328	1,785	1,307	95.8	84.6	75.1	13.68
Single Establishment		128 23	72 Q	4,179 2,149	1,420 366	976 330	115.0 58.6	90.2 62.6	73.2 80.7	14.73 24.51
Nonowner Occupied		103	23	2,442	Q	472	53.4	Q	49.6	20.51
Single Establishment	41	71	12	663	Q	197	62.0	Q	61.6	27.94
Multiple Establishment		32	11	1,779	537	275	50.2	59.6	41.1	22.64
Vacant Government Owned	Q 96	Q 39	Q 52	Q 1,093	Q 588	Q 704	Q 87.5	Q 65.8	Q 73.3	NF 22.01
Predominant Exterior Wall Material										
Masonry	494	207	105	5,635	2,662	1,526	87.7	Q	68.7	15.98
Siding or Shingles  Metal Panels	53	17	Q	716	178	105	74.3	96.2	Q 53.4	24.86
Concrete Panels	150 46	17 33	13 37	1,929 745	559 452	244 464	77.9 61.2	31.2 73.0	53.4 78.7	24.76 23.57
Window Glass	42	12	4	685	202	76	61.6	57.3	53.6	22.15
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Predominant Roof Material Built-Up	301	119	57	3,563	Q	699	84.5	Q	81.3	17.92
Shingles (Not Wood)		23	12	1,310	283	206	90.2	80.3	55.8	24.19
Metal Surfacing	148	45	22	2,206	821	464	66.9	54.9	46.7	19.31
Synthetic or Rubber		76	70	1,688	817	868	106.2	92.8	81.0	17.47
Other	93	31	13	1,382	404	265	67.5	76.1	48.8	31.37
Floors One	313	150	46	4,359	2,373	994	71.8	Q	45.8	17.43
Two	226	49	46	2,789	710	654	81.1	69.2	70.0	19.40
Three	107	25	21	822	243	223	130.5	105.0	92.0	30.44
Four to Nine Ten or More	116 77	54 15	47 14	1,085 1,094	620 192	457 174	107.2 70.1	86.8 79.9	102.9 83.3	26.14 25.56
Percent Window Glass				•						
25 or Less	591	183	115	6,989	3,164	1,701	84.6	Q	67.3	15.06
26 to 50	155	76	31	2,119	597	488	73.2	127.5	63.8	19.03
51 to 75	59	21 Q	15	625	231	215	93.7	88.8	67.4	24.52
76 to 100	34	Q	Q	417	Q	Q	82.6	Q	Q	25.16

Table 3.13. Consumption and Gross Energy Intensity for Sum of Major Fuels in Newer Buildings by Year Constructed, 1992 (Continued)

	Su	m of Major F Consumption (trillion Btu)	า	Tot	al Floorspace Buildings lion square fo	e of	Eı for S	nergy Intens um of Major usand Btu/s	Fuels	
Building Characteristics	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	
RSE Column Factor:	1.0	1.2	1.3	0.7	1.1	1.0	0.8	1.1	1.0	RSE Row Factor
Building Shape Square	444	13 144	5 90	533 5,943	195 1,989	Q 1,324	87.0 74.7	67.5 72.6	Q 68.3	29.91 13.11
Right Angle Other		16 120	16 62	816 2,857	248 Q	220 812	73.7 101.0	65.1 Q	73.0 76.5	24.30 21.79
Space-Heating Energy Sources (more than one may apply) Electricity	446 58 109 11 Q	142 141 Q 22 Q Q Q	72 107 16 27 Q Q Q	5,657 5,117 496 524 316 Q	2,301 1,555 Q 149 Q Q Q	1,030 1,325 124 195 Q Q Q	82.6 87.2 116.5 Q 35.6 Q	Q 90.6 Q 145.8 Q Q	69.5 80.6 129.1 136.3 Q Q	17.22 14.37 31.34 29.78 35.12 NF NF
Cooling Energy Sources (more than one may apply) Electricity	766 33 52	270 Q Q	154 Q 19	9,002 Q 184	3,690 Q Q	2,108 Q 164	85.0 Q 281.6	73.2 Q Q	73.1 Q 113.8	14.20 40.22 35.03
Water-Heating Energy Sources (more than one may apply) Electricity Natural Gas Fuel Oil District Heat Propane	396	156 131 Q Q Q	56 98 Q 11 Q	5,278 3,634 Q 215 Q	2,596 1,175 Q Q Q	980 1,117 Q 67 Q	73.8 109.0 Q 308.8 Q	Q 111.5 Q Q Q	57.0 87.9 Q 158.4 Q	18.63 14.70 NF 35.94 NF
Cooking Energy Sources (more than one may apply) Electricity Natural Gas Propane		105 92 Q	56 44 Q	2,091 1,950 Q	Q 748 Q	590 452 Q	93.7 118.5 Q	Q 122.3 Q	95.8 98.3 Q	21.23 18.95 NF
Percent of Floorspace Heated Not Heated	20 54 132 633	4 23 42 225	Q 9 27 135	751 1,690 1,636 6,073	260 640 438 2,799	199 279 345 1,679	27.0 32.1 80.9 104.2	17.0 35.2 96.5 Q	Q 32.3 77.2 80.1	34.46 25.81 22.37 14.02
Percent of Floorspace Cooled Not Cooled 1 to 50 51 to 99	195	16 29 84 164	5 28 49 91	925 3,242 2,339 3,643	377 891 706 2,164	244 534 590 1,134	31.1 60.1 89.0 111.8	43.1 32.8 119.1 Q	20.2 53.2 83.2 80.1	29.81 22.02 19.86 16.82
Heating Equipment (more than one may apply) Heat Pumps	202 331 109 188	42 50 65 22 90 110 Q	27 22 63 28 56 54 Q	2,290 2,308 4,022 524 1,972 3,154 Q	672 586 961 149 Q 1,152 Q	534 323 768 202 544 893 Q	92.1 87.7 82.3 Q 95.5 74.7 Q	62.4 84.9 67.2 145.8 Q 95.4 Q	50.8 67.8 81.6 137.6 102.5 60.6 Q	21.70 21.45 15.81 29.40 21.08 15.60 NF
Heating Distribution Equipment (more than one may apply) Radiators or Baseboards Ducts for Heating VAV System Used Individual Space Heaters Fan Coil Units or Other	649 238	27 256 132 65 30	32 145 82 63 27	839 7,458 2,388 4,022 1,042	246 3,423 Q 961 291	252 2,004 856 768 252	141.5 87.1 99.5 82.3 122.3	108.1 74.8 Q 67.2 103.4	128.1 72.6 95.9 81.6 107.9	22.90 14.97 19.11 15.81 34.96

Table 3.13. Consumption and Gross Energy Intensity for Sum of Major Fuels in Newer Buildings by Year Constructed, 1992 (Continued)

					•	•				
		ım of Major F Consumptior (trillion Btu)	1		al Floorspace Buildings lion square f		for Si	nergy Intens um of Major usand Btu/s	Fuels	
Building Characteristics	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	
RSE Column Factor:	1.0	1.2	1.3	0.7	1.1	1.0	0.8	1.1	1.0	RSE Row Factor
Cooling Equipment (more than one may apply)										
Residential-Type Central A/C		27	15	992	365	190	110.6	74.3	78.3	29.17
Heat PumpsIndividual A/C		44 73	28 12	2,224 1,630	697 Q	562 108	102.1 97.3	63.0 Q	49.3 114.1	21.59 29.36
District Chilled Water		Q Q	19	184	Q	164	281.6	Q	114.1	35.03
Central Chillers		85	54	1,839	Q	571	89.4	ã	94.7	20.41
Packaged A/C Units		148	97	4,788	1,550	1,230	78.8	95.3	78.9	13.70
Swamp Coolers		Q	Q Q	428	Q	Q	92.3	Q	Q	39.19
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Cooling Distribution Equipment										
(more than one may apply)										
Ducts for Cooling		273	162	8,288	3,651	2,177	89.2	74.8	74.3	14.40
VAV System UsedIndividual A/C		140 73	97 12	2,739 1.630	1,981 Q	973 108	103.2 97.3	Q Q	99.2 114.1	18.63 29.36
Fan Coil Units or Other	82	Q	11	730	Q	115	111.8	Q	91.8	36.57
Water Handley Freedom and for any										
Water-Heating Equipment (more than one may apply)										
Centralized System	389	177	93	3,795	2,220	1,095	102.6	Q	85.3	17.37
Distributed System	446	160	70	5,341	2,492	1,110	83.5	Q	63.1	18.23
Energy Conservation Features (more than one may apply)										
Any Conservation Features		293	172	9,842	4,044	2,419	84.6	72.5	71.2	13.73
Building Shell		290	170	9,463	3,902	2,338	86.8	74.2	72.5	14.12
HVAC		275	162	8,199	3,602	2,103	90.5	76.3 Q	76.8 79.6	14.57
Lighting Other	76	163 29	130 24	5,052 860	2,519 325	1,627 275	91.8 87.9	89.6	79.6 87.8	15.41 21.80
Energy Management Practices (more than one may apply) Energy Management and Control										
System	221	140	106	2,324	2,018	1,236	95.2	Q	85.4	18.48
Demand-Side Management <sup>1</sup> Participation	159	44	32	1.539	521	504	103.0	84.7	63.9	20.91
Energy Audit		58	22	2,144	631	330	87.5	92.0	68.0	21.05
Building Energy Manager	24	8	Q	<sup>′</sup> 181	137	56	130.1	58.9	155.5	34.24

<sup>1</sup> These Demand-Side Management (DSM) data, which include utility-sponsored programs, in-house programs, and third-party sponsored programs, were reported by the building respondent on the Building Questionnaire (Form EIA-871A). The electric utility-sponsored DSM data reported by the electricity suppliers (Form EIA-871E-1b) are presented in the "At a Glance" section and Table 3.49 of this section. See Appendix B, "Nonsampling and Sampling Errors," for a discussion of the differences between the energy supplier-reported data and building respondent-reported data.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • 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. • HVAC = Heating, Ventilation, and Air Conditioning. • VAV = Variable Air Volume. • Because of rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A through F of the 1992 Commercial Buildings Energy Consumption

Table 3.21. Electricity Consumption and Conditional Energy Intensity in Older Buildings by Year Constructed, 1992

	٦	Fotal Electricit Consumption (billion kWh)	ı	U	oorspace of B Ising Electrici Illion square f	ty	El	ectricity Ene Intensity (kWh/sq. ft.)	-	
Building Characteristics	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	RSE
RSE Column Factor:	1.1	1.3	1.1	0.9	1.1	1.0	0.9	1.0	0.8	Row Factor
All Buildings	192	155	184	23,642	12,473	13,779	8.1	12.4	13.4	6.82
Building Floorspace (square feet)										
1,001 to 5,000	29	16	27	2,937	1,117	1,479	9.9	14.1	18.4	9.15
5,001 to 10,000	29	10	17	3,198	964	1,484	9.2	10.3	11.3	13.48
10,001 to 25,000	30	21	19	3,932	1,883	1,814	7.6	11.2	10.5	11.22
25,001 to 50,000	29 16	15 19	27 23	3,881	1,829 1,595	2,173 1,774	7.3 6.3	8.4 12.1	12.7 13.1	15.90 15.10
50,001 to 100,000	25	23	23 19	2,582 3,360	2,305	1,774	6.3 7.5	9.8	11.5	19.21
200,001 to 500,000	19	24	34	2,057	1,444	1,984	9.0	16.4	17.3	20.19
Over 500,000	15	27	17	1,696	1,335	1,418	8.7	20.2	12.3	26.11
Principal Building Activity										
Education	18	22	20	3,431	2,405	1,728	5.4	9.1	11.5	10.80
Food Sales	7	Q	8	246	Q	155	29.5	Q	54.5	22.64
Food Service	15	4	13	734	187	365	20.3	20.5	36.7	18.82
Health Care	10	12	13	397	492	544	24.2	23.4	23.4	17.84
Lodging	15	7	10	934	482	579	15.6	15.1	16.4	23.17
Mercantile and Service	26	32	31	3,925	2,678	2,607	6.6	12.1	12.0	11.70
Office Parking Garage	53 Q	37 Q	45 Q	3,941 Q	2,187 Q	2,283 Q	13.4 Q	17.1 Q	19.6 Q	13.61 NF
Public Assembly	7	6	16	1,148	552	1,095	6.4	10.6	14.5	17.41
Public Order and Safety	Q '	Q	2	Q	Q	168	Q Q	Q Q	9.6	30.38
Religious Worship	۵	_ 2	1	2,143	628	505	2.1	2.8	2.9	19.95
Warehouse and Storage	19	18	14	3,928	1,800	2,308	4.9	9.9	6.0	19.58
Other	9	4	Q	497	181	Q	17.6	20.5	Q	31.78
Vacant	6	1	1	1,849	313	558	3.4	1.7	2.6	30.03
Census Region and Division										
Northeast	42	28	24	6,321	2,476	2,120	6.7	11.4	11.6	13.50
New England	9	4	9	1,433	436	634	6.3	10.1	13.8	20.60
Middle Atlantic	33 48	24 39	16 45	4,888	2,039 2,632	1,486	6.8	11.7 14.9	10.6	18.33 12.27
Midwest  East North Central	31	24	45 26	6,651 4,635	1,846	3,985 2,288	7.2 6.8	13.1	11.3 11.3	14.05
West North Central	16	15	19	2,016	785	1,697	8.1	19.1	11.3	22.86
South	65	55	74	7,173	4,820	4,824	9.0	11.4	15.3	11.20
South Atlantic	31	30	36	2,519	2,644	2,208	12.2	11.4	16.4	16.49
East South Central	14	10	20	1,630	903	1,187	8.9	11.5	16.6	23.70
West South Central	20	14	18	3,024	1,273	1,429	6.5	11.2	12.5	15.56
West	37	32	41	3,497	2,545	2,850	10.6	12.8	14.4	14.27
Mountain Pacific	12 25	9 24	11 30	1,056 2,440	664 1,881	690 2,160	11.7 10.1	13.5 12.5	15.7 14.0	23.17 17.22
				, -	,	,				
Climate Zone: 45-Year Average Fewer than 2,000 CDD and										
More than 7,000 HDD and	13	15	18	2,131	842	1,491	6.3	17.8	12.1	19.27
5,500-7,000 HDD	52	36	43	7,783	2,797	3,557	6.7	12.7	12.1	14.01
4,000-5,499 HDD	61	37	32	6,547	3,348	2,813	9.3	11.1	11.2	13.03
Fewer than 4,000 HDD	33	44	59	3,963	2,961	3,624	8.4	14.9	16.2	15.24
More than 2,000 CDD and							40.0			
Fewer than 4,000 HDD	32	23	33	3,219	2,524	2,295	10.0	9.0	14.4	16.16
Energy Sources (more than one										
may apply) Electricity	192	155	184	23,642	12,473	13,779	8.1	12.4	13.4	6.82
Natural Gas	136	113	104	17,059	8,871	9,215	8.0	12.4	13.4	8.08
Fuel Oil	46	36	48	4,503	2,363	2,735	10.2	15.2	17.6	15.50
District Heat	25	27	13	1,967	1,419	976	12.7	19.0	13.8	25.93
District Chilled Water	8	8	9	652	375	480	12.5	22.1	17.7	26.72
Propane	12	5	12	943	642	786	12.3	7.8	14.8	22.85
Any Other	3	Q	2	729	Q	268	4.4	Q	7.5	24.08

Table 3.21. Electricity Consumption and Conditional Energy Intensity in Older Buildings by Year Constructed, 1992 (Continued)

						-				
	7	Fotal Electrici Consumptior (billion kWh)	ı ์	U	oorspace of B sing Electrici lion square f	ty	Eld	ectricity Ene Intensity (kWh/sq. ft.)	-	
Building Characteristics	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	RSE
RSE Column Factor:	1.1	1.3	1.1	0.9	1.1	1.0	0.9	1.0	0.8	Row Factor
Energy End Uses (more than one may apply)										
Heated Buildings	182	146	179	22,036	11,548	12,813	8.3	12.6	14.0	6.64
Buildings with A/C	171	142	178	18,912	10,601	12,286	9.1	13.4	14.5	6.90
Buildings with Water Heating		148	176	20,372	11,006	12,368	8.7	13.5	14.3	6.87
Buildings with CookingBuildings with Manufacturing		72 6	93 7	6,903 1,478	4,920 394	5,071 652	10.1 7.9	14.6 16.1	18.4 10.9	9.18 22.25
Buildings with Manufacturing	12	O	,	1,470	394	032	7.9	10.1	10.9	22.23
Workers (main shift)										
Less than 5		17	23	6,841	2,668	2,954	4.4	6.2	7.8	11.65
5 to 9		10 13	19 23	3,343	1,227	1,577	7.3 7.9	8.4 10.7	12.0 13.1	13.12 15.42
10 to 19	43	26	24	3,323 3,815	1,211 2,180	1,789 2,088	11.2	11.8	11.3	12.69
50 to 99		25	21	2,890	1,685	1,424	7.6	14.9	14.8	19.52
100 or More	46	64	74	3,430	3,502	3,949	13.4	18.3	18.8	13.09
Weekly Operating Hours										
39 or Fewer	10	3	4	3,673	1,198	1,273	2.8	2.9	3.3	15.57
40 to 48		24	32	6,255	2,617	2,609	7.2	9.1	12.3	13.25
49 to 60		21	25	5,816	2,363	2,466	6.5	8.9	10.2	12.85
61 to 84		32	36	2,956	2,687	2,762	9.0	11.9	13.2	14.66
85 to 167 Open Continuously	30 42	31 43	39 48	2,572 2,369	1,910 1,697	2,238 2,431	11.6 17.8	16.4 25.4	17.5 19.5	13.52 14.85
				_,	.,	_,				
Ownership and Occupancy Nongovernment Owned	152	103	142	18,314	8,441	10,557	8.3	12.2	13.4	8.27
Owner Occupied		86	113	14,110	6,718	7,958	8.8	12.8	14.1	8.92
Single Establishment		75	91	11,138	5,824	6,260	9.1	12.9	14.5	10.06
Multiple Establishment		11	22	2,971	894	1,698	7.4	12.4	12.8	15.76
Nonowner Occupied		17	28	3,684	1,485	2,380	7.2	11.4	11.9	14.79
Single Establishment		7 9	12 16	1,906 1,779	557 928	999 1,381	8.2 6.1	13.4 10.2	12.5 11.5	20.01 18.28
Vacant	Q''	Q	Q	520	Q	1,301 Q	Q	Q Q	Q Q	28.65
Government Owned	40	51	43	5,329	4,032	3,222	7.5	12.7	13.3	11.67
Predominant Exterior Wall Material										
Masonry	163	102	125	20,376	8,486	9,161	8.0	12.1	13.6	7.32
Siding or Shingles		5	9	1,490	525	662	7.4	9.9	13.8	16.72
Metal Panels		10	17	1,277	1,349	1,834	9.7	7.1	9.1	20.47
Concrete Panels	Q Q	24	18	Q Q	1,495	1,497	Q	16.1	11.9	19.64
Window Glass Other	Q	Q Q	12 4	Q	463 Q	405 220	Q Q	25.3 Q	28.9 19.3	28.46 32.28
Predominant Roof Material	103	89	90	11,350	6 520	5 922	9.0	13.7	15 /	8.95
Built-UpShingles (Not Wood)		89 21	90 22	4,911	6,520 1,557	5,822 2,064	9.0 5.8	13.7	15.4 10.5	15.05
Metal Surfacing		8	20	1,640	1,459	2,156	5.1	5.4	9.1	19.25
Synthetic or Rubber	36	30	38	3,552	2,139	2,542	10.0	14.0	15.0	13.38
Other	17	6	15	2,189	798	1,196	7.7	8.0	12.7	18.68
Space-Heating Energy Source										
Electricity	65	52	95	6,578	3,880	6,191	9.9	13.4	15.4	10.01
Electricity Main		25	64	2,779	1,893	3,800	11.7	13.4	16.8	11.76
Electricity Secondary		27	31	3,799	1,987	2,391	8.6	13.4	13.1	15.82
Other Excluding Electricity		94 Q	84 5	15,458 1,606	7,668 925	6,622 967	7.5 6.1	12.2 Q	12.6 5.5	8.36 31.28
Dunding Not Fleated	Q	Q	ວ	1,000	920	907	0.1	Q	5.5	31.20

Table 3.21. Electricity Consumption and Conditional Energy Intensity in Older Buildings by Year Constructed, 1992 (Continued)

	٦	Fotal Electrici Consumptior (billion kWh)	ท์	U	oorspace of B sing Electrici Ilion square f	ty	El·	ectricity Ene Intensity (kWh/sq. ft.)		
Building Characteristics	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	RSE
RSE Column Factor:	1.1	1.3	1.1	0.9	1.1	1.0	0.9	1.0	0.8	Row Factor
Main Space-Heating										
Energy Source										
Electricity	32	25	64	2,779	1,893	3,800	11.7	13.4	16.8	11.76
Natural Gas	101	88	94	13,989	7,223	7,024	7.2	12.2	13.3	8.73
Fuel Oil	18	5 25	5 12	2,551	739	700 750	7.1	7.1	7.3	17.32
District Heat Propane	23 3	Q 25	2	1,839 370	1,339 Q	759 273	12.7 8.2	18.7 Q	16.2 9.2	20.56 35.31
Wood	Q	Q	Q <sup>2</sup>	Q	Q	Q Q	Q.2	Q	Q Q	NF
Any Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Replacement Energy Source for Main Heating										
Electricity Only	7	4	5	1,009	422	506	7.3	8.6	10.3	18.70
Natural Gas Only	8	5	5	909	528	482	9.1	Q	10.1	25.72
Fuel Oil Only	21	19	23	2,065	1,339	1,354	10.0	14.1	16.7	22.39
Propane Only	5	3	7	631	399	554	8.0	8.4	12.9	24.59
Any Other Single Energy Source  More than One Energy Source	Q 2	Q Q	Q Q	Q 394	Q Q	Q Q	Q 5.9	Q Q	Q Q	NF 21.08
No Replacement Energy Source	136	112	137	16,785	8,647	9,652	8.1	12.9	14.2	7.63
Building Not Heated	Q	Q	5	1,606	925	967	6.1	Q Q	5.5	31.28
Cooling Energy Source										
Electricity	164	135	166	18,222	10,231	11,375	9.0	13.2	14.6	6.99
Other Excluding Electricity	8	7	12	690	370	911	11.1	18.6	12.9	27.53
A/C Not Performed	20	13	7	4,730	1,872	1,494	4.3	7.0	4.4	20.51
Water-Heating Energy Source										
Electricity	60	44	90	7,259	3,423	5,946	8.3	12.7	15.1	10.73
Other Excluding Electricity	116 15	105 7	87 8	13,112	7,584	6,422	8.9 4.7	13.8 4.5	13.5 5.6	8.40 20.03
Water Heating Not Performed	15	1	0	3,271	1,466	1,411	4.7	4.5	5.6	20.03
Cooking Energy Source	31	42	48	2,726	2,734	2,427	11.4	15.4	19.6	12.66
Electricity Other Excluding Electricity	38	30	46	4,177	2,186	2,643	9.2	13.4	17.2	13.88
Cooking Not Performed	122	83	91	16,740	7,553	8,709	7.3	11.0	10.5	9.13
Percent of Floorspace Heated										
Not Heated	Q	Q	5	1,606	925	967	6.1	Q	5.5	31.28
1 to 50	21	17	17	4,779	2,060	2,059	4.4	8.5	8.4	19.57
51 to 99	29	25	33	3,692	2,061	2,039	7.9	12.3	16.3	12.38
100	131	103	129	13,565	7,427	8,715	9.7	13.8	14.7	7.62
Percent of Floorspace Cooled		40	_	4 = 00	4.070	4 /01				00 = 1
Not Cooled	20	13	7	4,730	1,872	1,494	4.3	7.0	4.4	20.51
1 to 5051 to 99	49 47	25 55	30 54	9,565 4,035	3,604 3,167	3,881 3,035	5.2 11.7	7.1 17.5	7.8 17.7	10.49 11.13
100	75	61	94	5,312	3,830	5,370	14.1	15.8	17.7	9.39
Percent Lit when Open										
Not Lit	2	Q	(*)	789	Q	Q	2.0	Q	0.9	31.12
1 to 50	24	6	`´6	5,274	1,523	1,414	4.6	3.7	4.4	16.57
51 to 99	41	25	39	5,026	2,264	2,980	8.1	11.1	13.2	10.54
100	125	124	138	12,554	8,369	8,988	10.0	14.8	15.4	8.35
Percent Lit when Closed										
Not Lit	96	71 77	83	11,585	5,863	6,562	8.3	12.1	12.7	9.17
1 to 50 51 to 99	88 5	77	97	11,493 284	6,118	6,851	7.7	12.6	14.1 Q	8.89
100	2	Q Q	Q Q	284 279	Q Q	Q Q	16.6 8.8	Q Q	Q	30.01 30.13
	_	· ·	×.	213	· ·	×.	0.0	×.	ч	50.15

Table 3.21. Electricity Consumption and Conditional Energy Intensity in Older Buildings by Year Constructed, 1992 (Continued)

		otal Electrici Consumptior (billion kWh)	า์	U	oorspace of B sing Electrici Ilion square fo	ty	El	ectricity Ene Intensity (kWh/sq. ft.)	-	
Building Characteristics	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	RSE
RSE Column Factor:	1.1	1.3	1.1	0.9	1.1	1.0	0.9	1.0	0.8	Row Factor
Heating Equipment (more than one may apply)										
Heat Pumps	29	16	30	1,934	1,055	1,783	14.7	14.7	16.7	17.31
FurnacesIndividual Space Heaters	49 52	36 47	32 69	7,344 7,329	3,367 3,862	2,980 5,434	6.6 7.1	10.6 12.1	10.8 12.8	12.07 10.96
District Heat	26	26	13	2,015	1,363	972	13.0	19.1	13.9	21.41
Boilers Packaged Heating Units	73 39	53 43	58 58	8,964 3,664	4,027 3,226	3,734 3,911	8.1 10.7	13.1 13.4	15.6 14.8	9.60 12.36
Other	Q	Q	8	Q	Q	231	Q	Q	33.6	22.04
Cooling Equipment (more than one										
may apply)	36	18	24	4,144	1,528	1,800	8.7	11.8	13.3	14.39
Residential-Type Central A/C Heat Pumps	27	17	31	1,946	1,170	1,800	13.7	14.8	17.2	16.53
Individual A/C District Chilled Water	57 8	45 8	30 9	8,783	3,603	2,586	6.5	12.5	11.5	11.47
Central Chillers	8 47	8 56	60	652 2,854	376 3,032	632 3,306	12.5 16.4	22.1 18.4	13.5 18.0	28.76 13.45
Packaged A/C Units	86	72	100	8,357	5,411	6,494	10.3	13.3	15.4	9.24
Swamp Coolers Other	8 Q	7 Q	5 Q	544 Q	510 Q	386 Q	14.6 Q	14.5 Q	12.2 Q	25.92 NF
Lighting Equipment (more than one										
may apply)										
IncandescentStandard Fluorescent	137 179	96 147	118 179	16,118 21,605	7,220 11,720	7,853 13,069	8.5 8.3	13.4 12.5	15.0 13.7	8.11 6.66
Compact Fluorescent	23	28	37	1,961	1,764	1,958	11.8	15.9	18.8	16.39
High-Intensity Discharge Other	40 Q	49 Q	55 Q	4,554 537	3,382 Q	3,734 Q	8.8 12.8	14.4 Q	14.7 Q	14.50 46.56
	Q.	Q.	· ·	001	Q.	Q.	12.0	G.	ų.	10.00
Commercial Refrigeration Equipment (more than one may										
apply)	0.4	0.5	400	7.000	5.040	5.007	40.0	45.0	40.0	0.00
Any Equipment	84 65	85 70	103 88	7,689 4,761	5,346 4,015	5,627 4,707	10.9 13.5	15.9 17.4	18.3 18.8	8.92 9.82
Cases and Cabinets	72	72	87	6,431	4,280	4,507	11.2	16.7	19.4	9.64
None	108	70	81	15,953	7,127	8,153	6.8	9.8	10.0	9.73
Personal Computers and/or Computer Terminals										
1 to 4	34	23	32	5,282	1,975	3,168	6.4	11.7	10.3	11.97
5 to 9	14 17	12 16	16 15	1,712 1,933	1,001 1,390	1,444 1,182	8.3 8.7	12.1 11.6	11.3 12.6	15.90 16.38
20 to 49	19	18	21	2,554	1,552	1,419	7.5	11.8	14.5	17.18
50 or More	56	64	69	3,793	3,456	3,405	14.7	18.4	20.1	12.94
Annual Consumption										
(kilowatthours) 10,000 or Less	3	1	1	2,775	713	611	0.9	1.2	1.5	12.38
10,001 to 50,000	20	7	8	5,497	2,041	2,044	3.7	3.4	4.1	9.48
50,001 to 100,000	17 53	8 31	12 43	2,880 6,310	1,091 2,993	1,458 3,413	5.8 8.5	7.6 10.4	8.2 12.5	10.99 10.20
500,001 to 1,000,000	19	16	21	1,577	1,443	1,593	12.1	11.1	13.1	14.83
1,000,001 to 5,000,000 Over 5,000,000	54 26	42 49	48 52	3,568 1,034	2,416 1,775	2,369 2,291	15.1 24.8	17.5 27.7	20.1 22.7	13.18 19.15
Peak Electricity Demand (kilowatts)										
10 or Less	2	1	1	1,028	486	507	2.3	2.6	2.7	22.16
11 to 25 26 to 50	9 15	3 8	4 11	1,978 2,126	840 755	808 957	4.6 7.2	4.1 11.1	5.5 11.1	16.95 15.01
51 to 100	22	10	24	2,723	1,219	1,614	8.1	7.9	15.1	14.78
101 to 250	27	22	25	2,610	1,836	1,811	10.5	11.9	13.6	14.55
251 to 1,000	44	36	44	3,605	2,345	2,187	12.2	15.3	20.3	15.58

Table 3.21. Electricity Consumption and Conditional Energy Intensity in Older Buildings by Year Constructed, 1992 (Continued)

		otal Electricit Consumption (billion kWh)	ท์	U	oorspace of B sing Electrici Ilion square fo	ty	El			
Building Characteristics	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	RSE
RSE Column Factor:	1.1	1.3	1.1	0.9	1.1	1.0	0.9	1.0	0.8	Row Factor
Season of Peak Electricity Demand Summer Winter Summer and Winter	101 36 11	80 37 7	103 47 4	8,715 5,392 1,122	5,354 3,095 526	6,925 2,986 379	11.6 6.8 10.2	14.9 11.9 14.1	14.8 15.6 11.3	11.17 13.81 25.05
YesNo	35 157	32 123	51 133	1,950 21,692	1,881 10,592	2,849 10,931	17.8 7.2	17.0 11.6	18.0 12.2	14.81 7.52

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

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • 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. • Because of rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A through F of the 1992 Commercial Buildings Energy Consumption

Table 3.22. Electricity Consumption and Conditional Energy Intensity in Newer Buildings by Year Constructed, 1992

		<u> </u>								
		otal Electrici Consumptior (billion kWh)	ı́	Us	orspace of B sing Electricition square fo	ty		ectricity Ene Intensity (kWh/sq. ft.)		
Building Characteristics	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	
RSE Column Factor:	0.9	1.3	1.4	0.8	1.1	1.3	0.6	0.8	1.0	RSE Row Factor
All Buildings	144	58	32	10,042	4,106	2,482	14.3	14.2	12.9	9.79
Building Floorspace (square feet)										
1,001 to 5,000 5,001 to 10,000		5 5	2 1	1,002 891	260 342	189 176	18.1 12.4	20.4 15.4	13.0 8.1	18.59 23.86
10,001 to 25,000		8	3	1,595	576	298	10.8	14.4	9.2	19.04
25,001 to 50,000		6	5	1,164	482	327	17.2	11.8	14.6	21.91
50,001 to 100,000		7 5	5 4	1,320 1,626	387 444	268 269	14.9 15.8	18.4 12.2	17.6 13.3	20.49 25.73
200,001 to 500,000		5	9	1,207	315	670	13.2	15.0	12.7	25.39
Over 500,000	16	16	4	1,237	1,299	285	12.9	12.6	13.3	24.24
Principal Building Activity										
Education		2	2	480	173	253	9.7	10.4	8.7	23.23
Food Sales Food Service	Q 5	Q Q	Q Q	Q 103	Q Q	Q Q	Q 46.2	Q Q	Q Q	NF 35.54
Health Care		Q	Q	240	Q	Q	22.5	Q	Q	28.38
Lodging		Q	2	550	Q	97	25.8	Q	15.9	28.55
Mercantile and Service Office		7 14	6 11	2,104 2,419	535 899	538 590	13.1 19.1	12.9 15.9	11.2 18.3	21.07 15.69
Parking Garage	Q	Q	Q	Q	Q	124	Q	Q	5.7	29.16
Public Assembly		Q	3	461	Q	197	10.8	Q	17.1	27.39
Public Order and Safety Religious Worship		Q Q	Q Q	Q 358	Q Q	Q Q	Q 3.4	Q Q	Q Q	NF 31.02
Warehouse and Storage	16	4	3	2,183	587	374	7.5	7.0	7.0	20.46
OtherVacant	Q 4	Q Q	Q Q	124 520	Q Q	Q 68	30.4 8.5	Q Q	Q 6.5	43.10 44.33
		•	· ·	020	•	00	0.0	ų.	0.0	11.00
Census Region and Division  Northeast	19	5	4	1,534	499	286	12.5	9.2	14.5	21.49
New England	5	Q	Q	497	Q	Q	9.7	Q	Q Q	43.89
Middle Atlantic		3	3	1,036	327	194	13.9	8.9	15.3	25.37
Midwest  East North Central	34 17	9 6	8 Q	2,473 1,171	498 271	663 362	13.6 14.4	17.1 20.9	12.1 17.2	20.40 26.71
West North Central		3	2	1,302	227	301	12.8	12.7	6.1	25.15
South		34	11	3,886	2,367	903	14.1	14.5	12.4	14.59
South Atlantic East South Central	21 16	11 5	5 3	1,791 903	783 350	487 264	11.8 18.0	14.3 14.1	11.0 11.8	22.26 22.29
West South Central	18	18	3	1,192	1,234	151	14.8	14.6	17.8	22.90
West Mountain	36 16	11 4	9 2	2,151	742 229	630	16.7	14.6	13.7	17.11
Pacific		7	6	774 1,376	513	148 482	20.8 14.4	16.3 13.9	15.5 13.1	30.11 21.23
Climate Zone: 45-Year Average										
Fewer than 2,000 CDD and										
More than 7,000 HDD		Q	Q	749	Q	Q	10.4	Q	Q	25.75
5,500-7,000 HDD 4,000-5,499 HDD		8 10	10 7	2,310 1,971	591 727	681 559	14.3 14.2	13.5 13.5	15.4 12.8	20.29 18.77
Fewer than 4,000 HDD		15	9	2,483	1,106	727	13.9	13.2	11.9	17.47
More than 2,000 CDD and	40	24	_	0.500	4.540	445	40.0	45.7	40.4	04.70
Fewer than 4,000 HDD	40	24	5	2,529	1,518	415	16.0	15.7	12.1	21.79
Energy Sources (more than one										
may apply) Electricity	144	58	32	10,042	4,106	2,482	14.3	14.2	12.9	9.79
Natural Gas	87	32	23	6,260	1,957	1,624	14.0	16.4	14.3	12.76
Fuel Oil District Heat		11 Q	14 Q	2,122 Q	748 Q	737 Q	17.5 Q	14.5 Q	19.1 Q	20.98 NF
District Chilled Water		Q	3	184	Q	164	34.0	Q	15.7	31.33
Propane	8	1	1	609	201	205	12.5	7.4	6.2	32.45
Any Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

Table 3.22. Electricity Consumption and Conditional Energy Intensity in Newer Buildings by Year Constructed, 1992 (Continued)

		<u> </u>				`				
	Total Electricity Consumption (billion kWh)			Us	orspace of B sing Electrici lion square f	ty	Ele			
Building Characteristics	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	D0E
RSE Column Factor:	0.9	1.3	1.4	0.8	1.1	1.3	0.6	0.8	1.0	RSE Row Factor
Energy End Uses (more than one										
may apply)	400		0.4	0.000	0.070	0.007	447	447	40.0	0.04
Heated Buildings		57 55	31	9,393	3,878	2,297	14.7	14.7	13.6	9.94
Buildings with A/C Buildings with Water Heating		55 57	31 30	9,225 8,869	3,760 3,696	2,258 2,167	15.1 15.4	14.7 15.4	13.9 13.6	10.09 10.24
Buildings with Cooking		34	14	3,197	2,117	859	18.3	16.1	15.8	16.28
Buildings with Manufacturing		Q	Q	504	Q	Q	14.2	Q	Q	38.07
Workers (main shift)										
Less than 5	20	19	4	2,071	1,586	497	9.7	11.8	8.0	23.23
5 to 9		4	1	882	343	152	11.5	10.8	8.3	21.60
10 to 19		6	2	1,142	389	201	13.3	15.4	10.5	25.31
20 to 49		9	4	1,560	514	399	11.6	18.1	11.3	20.28
50 to 99	20 61	6 15	4 16	1,117 3,271	347 926	301 933	17.5 18.5	15.9 16.1	12.5 17.6	24.38 15.80
				0,2	020	000				10.00
Weekly Operating Hours				0.10		407				
39 or Fewer		1 7	2 8	613 2,264	141 646	167 554	5.9	4.7	9.2	31.11 20.54
40 to 48		8	8	2,204	616	654	11.8 12.3	10.1 12.5	14.0 11.8	15.61
61 to 84		8	5	2,498	709	415	13.1	11.8	12.2	21.59
85 to 167		9	5	920	542	273	18.6	17.3	18.4	20.58
Open Continuously		26	5	1,643	1,451	420	23.0	17.6	11.7	22.86
Ownership and Occupancy										
Nongovernment Owned	130	52	24	8,962	3,518	1,788	14.5	14.8	13.2	10.92
Owner Occupied		27	18	6,290	1,781	1,300	16.0	15.2	13.5	12.38
Single Establishment		23	12	4,143	1,417	970	17.2	16.1	12.3	12.30
Multiple Establishment		4	Q	2,147	364	330	13.6	11.7	16.9	23.19
Nonowner Occupied		25	6	2,423	1,716	468	11.6	14.3	12.8	19.51
Single Establishment		18 7	3 3	663	1,200	197	13.6	14.8	15.7	25.46
Multiple Establishment Vacant	Q	Q '	Q	1,760 Q	517 Q	271 Q	10.9 Q	13.3 Q	10.8 Q	24.13 NF
Government Owned	14	6	8	1,081	588	695	12.5	10.5	12.2	21.47
Predominant Exterior Wall Material										
Masonry	83	42	20	5,608	2,658	1,525	14.9	15.9	13.0	12.65
Siding or Shingles		2	1	707	178	85	13.3	11.6	13.7	24.20
Metal Panels		3	3	1,871	550	244	13.1	5.3	10.8	23.63
Concrete Panels		7	6	732	445	464	11.2	15.0	13.7	19.76
Window Glass	11 Q	3 Q	1 Q	685 Q	202 Q	76	16.2	14.5	11.6	20.36
Other	Ų	Q	Q	Q	Q	Q	Q	Q	Q	NF
Predominant Roof Material										
Built-Up		29	10	3,556	1,809	699	16.4	15.9	14.4	17.79
Shingles (Not Wood)		3 8	2 4	1,310	278	200	11.7	12.2	12.0	20.57
Metal SurfacingSynthetic or Rubber		8 14	4 12	2,121 1,688	798 817	460 858	10.7 16.3	9.4 16.8	9.4 14.3	18.41 15.01
Other		5	3	1,367	404	265	14.4	12.1	11.1	28.81
Space Heating Engrave Service										
Space-Heating Energy Source Electricity	90	35	16	5,657	2,301	1,030	15.9	15.0	15.3	13.96
Electricity Main		31	11	4,254	1,976	800	16.4	15.9	14.3	16.29
Electricity Secondary		3	4	1,403	324	230	14.2	10.0	18.8	21.90
Other Excluding Electricity	48	23	15	3,736	1,577	1,267	12.9	14.3	12.2	14.34
Building Not Heated	6	1	Q	649	228	186	9.1	4.5	4.8	34.34
	L									

**Table 3.22. Electricity Consumption and Conditional Energy Intensity** in Newer Buildings by Year Constructed, 1992 (Continued)

		<u> </u>				<u> </u>				
		otal Electrici Consumptior (billion kWh)	ı ์	Us	orspace of B sing Electrici lion square f	ty		ectricity Ene Intensity (kWh/sq. ft.)	-	
Building Characteristics	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	205
RSE Column Factor:	0.9	1.3	1.4	0.8	1.1	1.3	0.6	0.8	1.0	RSE Row Factor
Main Space-Heating										
Energy Source				4.05.4	4.070		40.4	450	440	40.00
Electricity		31	11	4,254	1,976	800	16.4	15.9	14.3	16.29
Natural Gas		22	17	4,175	1,485	1,225	12.8	15.1	13.7	14.02
Fuel Oil District Heat	2 11	Q Q	Q 2	211 516	Q Q	Q 157	8.7 21.1	Q Q	Q 14.6	35.25 27.43
Propane		Q	Q 2	177	Q	Q	8.8	Q	Q	44.59
Wood		Q	Q	Q	Q	Q	Q.S	Q	Q	NF
Any Other		Q	Q	Q	Q	Q	Q	Q	Q	NF
Replacement Energy Source for										
Main Heating Electricity Only	3	2	Q	366	201	Q	9.5	9.6	Q	31.70
Natural Gas Only		Q -	Q	203	Q	Q	14.0	Q	Q	41.48
Fuel Oil Only		Q	3	509	Q	107	20.7	Q	23.9	22.51
Propane Only		Q	Q	334	Q	Q	9.5	Q	Q	50.96
Any Other Single Energy Source		Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
No Replacement Energy Source		50	26	7,791	3,265	2,014	14.8	15.2	13.1	11.05
Building Not Heated	6	1	Q	649	228	186	9.1	4.5	4.8	34.34
Cooling Energy Source Electricity	133	54	29	9,002	3,690	2,108	14.8	14.7	14.0	10.24
Other Excluding Electricity	Q 4	Q Q	2	222 818	Q 345	149 225	27.5 5.1	Q Q	12.3 3.1	33.01 25.31
Water-Heating Energy Source Electricity	80	37	12	5,278	2,596	980	15.2	14.3	11.8	13.33
Other Excluding Electricity	56	20	18	3,591	1,100	1,187	15.6	17.9	15.2	13.94
Water Heating Not Performed		1	2	1,174	410	316	6.4	3.4	7.8	24.06
Cooking Energy Source										
Electricity		24	10	2,091	1,615	590	19.2	15.1	16.3	21.92
Other Excluding Electricity		10	4	1,105	502	269	16.8	19.6	14.8	19.07
Cooking Not Performed	85	24	18	6,846	1,989	1,623	12.4	12.1	11.4	11.08
Percent of Floorspace Heated										
Not Heated	6	1	Q	649	228	186	9.1	4.5	4.8	34.34
1 to 50	12	5	2	1,690	640	279	7.1	7.5	7.4	26.14
51 to 99	27	6	5	1,631	438	338	16.7	14.8	15.8	20.15
100	99	46	24	6,073	2,799	1,679	16.2	16.4	14.1	10.97
Percent of Floorspace Cooled										
Not Cooled	4	Q	1	818	345	225	5.1	Q	3.1	25.31
1 to 50	25	٩	5	3,242	891	534	7.8	5.0	9.5	19.31
51 to 99	41	13	9	2,339	706	590	17.5	18.4	15.4	17.54
100	73	38	17	3,643	2,164	1,134	20.1	17.5	15.2	12.98
Percent Lit when Cook										
Percent Lit when Open Not Lit	Q	Q	Q	321	Q	Q	5.2	Q	Q	45.43
1 to 50	8	Q	2	1,253	231	280	6.3	Q	5.7	25.06
51 to 99		20	6	1,950	1,590	413	14.3	12.9	15.7	19.97
100	106	34	23	6,519	2,226	1,737	16.3	15.4	13.4	10.68
Percent Lit when Closed			4.0	F. 60=	0.504	4.40=	40.4	400	400	40.44
Not Lit	72	36	12	5,395	2,594	1,135	13.4	13.8	10.2	13.44
1 to 50 51 to 99	66 Q	21 Q	20	4,313	1,434	1,273	15.2	14.4	15.4	13.00 NF
100	Q	Q	Q Q	Q Q	Q Q	Q Q	Q Q	Q Q	Q Q	NF NF
	~	•	•	•	•	•	•	•	•	'*'

Table 3.22. Electricity Consumption and Conditional Energy Intensity in Newer Buildings by Year Constructed, 1992 (Continued)

Characteristics  RSE Column Factor: 0.9 1.3 1.4 0.8 1.1 1.3 0.6  Heating Equipment (more than one	0.8	1990-1992	RSE
Heating Equipment (more than one	0.8	1.0	
			Row Factor
may apply)			
Heat Pumps	13.0	10.8	21.95
Furnaces	14.6 13.7	11.0 15.5	18.97 14.51
District Heat	14.0	15.4	24.06
Boilers	13.9	18.2	20.16
Packaged Heating Units         42         20         11         3,154         1,152         892         13.4           Other         Q	17.2 Q	12.5 Q	14.74 NF
Cooling Equipment (more than one may apply)			
Residential-Type Central A/C	11.6	11.5	21.57
Heat Pumps	13.1	10.5	21.69
Individual A/C	13.3 Q	20.1 15.7	25.15 31.33
Central Chillers	14.4	16.8	17.51
Packaged A/C Units	17.2	14.7	13.28
Swamp Coolers         9         Q         Q         428         Q         Q         20.9           Other         Q	Q Q	Q Q	37.28 NF
Lighting Equipment (more than one	~	~	
may apply)			
Incandescent	18.2 14.6	13.4 13.2	12.70 10.06
Compact Fluorescent	14.9	17.8	19.93
High-Intensity Discharge         43         14         15         3,503         1,180         1,217         12.4           Other         5         Q         1         469         Q         110         11.0	12.3 Q	12.5 12.4	15.21 29.62
Commercial Refrigeration Equipment (more than one may apply)	Q	12.4	29.02
Any Equipment	18.1	16.5	13.67
Walk-in Units	18.3	17.3	16.49
Cases and Cabinets         54         36         15         2,870         2,019         879         18.9           None         77         19         15         6,491         1,919         1,476         11.8	18.0 9.7	16.7 10.5	15.01 13.02
Personal Computers and/or			
Computer Terminals         1 to 4	14.1	10.7	19.30
5 to 9	12.7	12.7	25.70
10 to 19	16.6	Q 11.6	30.92
20 to 49	16.3 15.9	11.6 18.1	21.20 16.60
Annual Consumption			
(kilowatthours) 10,000 or Less	1.6	1.0	22.09
10,000 or Less	4.3	4.3	15.34
50,001 to 100,000	6.0	6.9	22.93
100,001 to 500,000	15.4	9.6	16.56
500,001 to 1,000,000	9.1 24.4	10.5 18.3	24.09 16.74
Over 5,000,000	15.8	21.4	18.33
Peak Electricity Demand (kilowatts)         (*)         Q         Q         171         Q         Q         2.2	Q	Q	48.49
10 or Less	Q	Q	48.49 25.58
26 to 50	8.1	Q	22.80
51 to 100	18.8	5.0	25.64
101 to 250	12.2 20.6	14.5 14.9	24.17 22.73
Over 1,000	15.6	21.2	19.68

Table 3.22. Electricity Consumption and Conditional Energy Intensity in Newer Buildings by Year Constructed, 1992 (Continued)

	Total Electricity Consumption (billion kWh)			Us	orspace of B sing Electrici lion square fo	ty	Ele			
Building Characteristics	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	RSE
RSE Column Factor:	0.9	1.3	1.4	0.8	1.1	1.3	0.6	0.8	1.0	Row Factor
Season of Peak Electricity Demand Summer Winter Summer and Winter	42	34 15 Q	18 9 Q	4,599 2,712 305	2,292 956 Q	1,404 538 Q	17.0 15.7 10.0	14.9 15.7 Q	12.9 16.8 Q	15.01 18.55 40.20
YesNo	42 102	13 45	13 19	2,249 7,793	731 3,375	713 1,769	18.6 13.1	17.5 13.5	18.6 10.6	17.03 10.91

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

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • 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. • Because of rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A through F of the 1992 Commercial Buildings Energy Consumption

Table 3.37. Natural Gas Consumption and Conditional Energy Intensity in Older Buildings by Year Constructed, 1992

RSE Column Factor:   1.0   1.2   1.2   0.8   0.9   0.9   0.8   1.0   1.1   Factors   Factors   1.0   1.2   1.2   0.8   0.9   0.9   0.8   1.0   1.1   Factors   Factors   1.0   1.1   Factors   1.0		`									
RSE Column Factor:   1.0   1.2   1.2   0.8   0.9   0.9   0.8   1.0   1.1   Factor:   RSE Column Factor:   1.0   1.2   1.2   0.8   0.9   0.9   0.8   1.0   1.1   Factor:   RSE Column Factor:   1.0   1.2   1.2   0.8   0.9   0.9   0.8   1.0   1.1   Factor:   RSE Column Factor:   1.0   1.2   1.2   0.8   0.9   0.9   0.8   1.0   1.1   Factor:   RSE Column Factor:   1.0   1.2   1.2   0.8   0.9   0.9   0.8   1.0   1.1   Factor:   RSE Column Factor:   1.0   1.2   1.2   0.8   0.9   0.9   0.8   1.0   1.1   Factor:   RSE Column Factor:   1.0   1.2   1.2   0.8   0.9   0.9   0.8   1.0   1.1   Factor:   1.0   1.1   Factor:			Consumption	า	Us	ing Natural G	ias				
RSE Column Factor:   1.0   1.2   1.2   0.8   0.9   0.9   0.8   1.0   1.1   Fee			1960-1969	1970-1979		1960-1969	1970-1979		1960-1969	1970-1979	RSE
Building Floorspace (square feet)	RSE Column Factor:	1.0	1.2	1.2	0.8	0.9	0.9	0.8	1.0	1.1	Row Factor
1,001 to 5,000	All Buildings	804	414	513	17,059	8,871	9,217	47.1	46.6	55.7	10.78
5,001 to 10,000	Building Floorspace (square feet)										
10,001 to 25,000	1,001 to 5,000	132	48	66	1,798	636	761	73.3	75.6	87.2	10.97
25,001 to 10,0000	5,001 to 10,000	128		47	2,010	720	858	63.6	54.1	54.8	14.02
50,001 to 100,000											20.45
100,001 to 200,000											20.32
200,001 to 500,000											18.16
Principal Building Activity   Education											20.63
Principal Building Activity   Education											29.24
Education	Over 500,000	Q	36	40	1,594	987	1,253	39.2	36.0	32.3	31.99
Education	Principal Building Activity										
Food Selvice		131	66	66	3 114	1 724	1 426	42.0	38.1	46.6	16.43
Food Service											NF
Health Care											21.54
Lodging											29.48
Office         165         42         Q         2,763         1,406         1,359         59,9         29.8         Q         2         Parking Garage         Q											23.47
Office			97	91	3,042	2,205	1,937	42.6	44.2	46.8	22.88
Public Assembly	Office	165	42	Q	2,763	1,406		59.9	29.8	Q	21.12
Public Order and Safety	Parking Garage	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Religious Worship   39   10   9   1,715   558   323   22.9   18.0   28.3   22   22   22   34.0   34.6   22   22   23   34.6   22   23   24   26.9   42.4   34.6   23   24   26.9   42.4   34.6   23   24   26.9   42.4   34.6   23   24   26.9   42.4   34.6   23   24   26.9   42.4   34.6   23   24   26.9   42.4   34.6   24   25   24   26.9   42.4   34.6   24   25   25   25   25   25   25   25			14	33	853	423	726	40.0	33.6	45.1	22.75
Warehouse and Storage											NF
Chem					,						22.07
Vacant   26					,						21.56
Northeast											37.98
Northeast	vacant	20	Q	Q	1,134	Q	Q	22.0	Q	Q	32.45
Northeast	Census Region and Division										
New England		131	80	65	4.061	1.715	1.260	32.3	46.7	51.5	18.56
Midwest   236   96   93   4,001   1,425   1,734   59.1   67.3   53.6   12											31.63
East North Central	Middle Atlantic	108	71	39	3,316	1,562	900	32.5	45.6	43.3	20.91
West North Central	Midwest	308	131	162	5,629	2,035	3,149	54.8	64.5	51.6	12.90
South					4,001						14.20
South Atlantic         Q         Q         36         1,320         1,479         870         81.5         45.8         41.0         22           East South Central         89         Q         Q         2,212         1,052         1,024         40.3         Q         100.4         32           West South Central         89         Q         Q         2,212         1,052         1,024         40.3         Q         100.4         32           West South Central         111         65         114         2,846         1,980         2,195         39.1         32.8         52.0         15           Mountain         57         15         34         910         385         557         63.1         38.8         60.6         22           Facilities         54         50         Q         1,936         1,596         1,638         27.8         31.4         49.1         22           Climate Zone: 45-Year Average         Fewer than 2,000 CDD and         58         36         55         1,342         541         1,161         43.4         67.4         47.3         22         5,500-7,000 HDD         324         125         154         6,232											25.29
East South Central 57 25 33 991 610 719 57.3 40.3 45.8 21 West South Central 89 Q Q Q 2.212 1.052 1.024 40.3 Q 100.4 32 West South Central 57 15 14 2.846 1.980 2.195 39.1 32.8 52.0 18 Mountain 57 15 34 910 385 557 63.1 38.8 60.6 22 Pacific 54 50 Q 1.936 1.596 1.638 27.8 31.4 49.1 24 Climate Zone: 45-Year Average Fewer than 2,000 CDD and More than 7,000 HDD 58 36 55 1.342 541 1.161 43.4 67.4 47.3 22 5.500-7,000 HDD 324 125 154 6.232 1.886 2.747 52.0 66.4 55.9 13 4.000-5,499 HDD 207 88 77 4.333 2.692 1.532 47.7 32.8 50.1 20 Fewer than 4,000 HDD 11 137 121 2.983 2.531 2.617 34.0 54.3 46.3 24 More than 2,000 CDD and Fewer than 4,000 HDD 11 37 121 2.983 2.531 2.617 34.0 54.3 46.3 24 More than 2,000 CDD and Fewer than 4,000 HDD 11 37 121 2.983 2.531 2.617 34.0 54.3 46.3 24 More than 2,000 CDD and Fewer than 4,000 HDD 11 37 121 2.983 2.531 2.617 34.0 54.3 46.3 24 More than 2,000 CDD and Fewer than 4,000 HDD 11 37 121 2.983 2.531 2.617 34.0 54.3 46.3 24 More than 2,000 CDD and Fewer than 4,000 HDD 11 38 17,059 8.871 9.215 47.1 46.6 55.7 10 Natural Gas 804 414 513 17,059 8.871 9.215 47.1 46.6 55.7 10 Natural Gas 804 414 513 17,059 8.871 9.215 47.1 46.6 55.7 10 Natural Gas 804 414 88 106 2.537 1.618 1.811 45.0 54.6 58.4 25 District Heat 38 16 Q 1.061 547 Q 35.4 29.7 Q 36.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25											23.58
West South Central         89         Q         Q         2,212         1,052         1,024         40.3         Q         100.4         32           West         111         65         114         2,846         1,980         2,195         39.1         32.8         52.0         15           Mountain         57         15         34         910         385         557         63.1         38.8         60.6         22           Pacific         54         50         Q         1,936         1,596         1,638         27.8         31.4         49.1         24           Climate Zone: 45-Year Average           Fewer than 2,000 CDD and         58         36         55         1,342         541         1,161         43.4         67.4         47.3         22         5,500-7,000 HDD         324         125         154         6,232         1,886         2,747         52.0         66.4         55.9         13         4,000-5,499 HDD         207         88         77         4,333         2,692         1,532         47.7         32.8         50.1         20           More than 2,000 CDD and         Fewer than 4,000 HDD         113         26         Q											29.74
West         111         65         114         2,846         1,980         2,195         39.1         32.8         52.0         15           Mountain         57         15         34         910         385         557         63.1         38.8         60.6         22           Pacific         54         50         Q         1,936         1,596         1,638         27.8         31.4         49.1         24           Climate Zone: 45-Year Average           Fewer than 2,000 CDD and           More than 7,000 HDD         58         36         55         1,342         541         1,161         43.4         67.4         47.3         22           5,500-7,000 HDD         324         125         154         6,232         1,886         2,747         52.0         66.4         55.9         13           4,000-5,499 HDD         207         88         77         4,333         2,692         1,532         47.7         32.8         50.1         20           More than 2,000 CDD and         5ewer than 4,000 HDD         113         26         Q         2,168         1,220         1,158         52.3         21.6         Q         24 <td></td> <td>21.82</td>											21.82
Mountain											32.67
Pacific					,						19.85 22.79
Climate Zone: 45-Year Average Fewer than 2,000 CDD and More than 7,000 HDD											24.40
Fewer than 2,000 CDD and  More than 7,000 HDD	1 40110	01	00	Q.	1,000	1,000	1,000	27.0	01.1	10.1	21.10
More than 7,000 HDD	Climate Zone: 45-Year Average										
5,500-7,000 HDD       324       125       154       6,232       1,886       2,747       52.0       66.4       55.9       13         4,000-5,499 HDD       207       88       77       4,333       2,692       1,532       47.7       32.8       50.1       20         Fewer than 4,000 HDD       101       137       121       2,983       2,531       2,617       34.0       54.3       46.3       24         Energy Sources (more than one may apply)         Electricity       804       414       513       17,059       8,871       9,215       47.1       46.6       55.7       10         Natural Gas       804       414       513       17,059       8,871       9,215       47.1       46.6       55.7       10         Fuel Oil       114       88       106       2,537       1,618       1,811       45.0       54.6       58.4       25         District Chilled Water       38       16       Q       1,061       547       Q       35.4       29.7       Q       2         Propane       Q       Q       Q       Q       Q       Q       Q       Q       Q       Q       Q <td>Fewer than 2,000 CDD and</td> <td></td>	Fewer than 2,000 CDD and										
4,000-5,499 HDD					1,342						22.94
Fewer than 4,000 HDD											13.25
More than 2,000 CDD and Fewer than 4,000 HDD											20.27
Fewer than 4,000 HDD       113       26       Q       2,168       1,220       1,158       52.3       21.6       Q       24         Energy Sources (more than one may apply)       804       414       513       17,059       8,871       9,215       47.1       46.6       55.7       10         Natural Gas       804       414       513       17,059       8,871       9,215       47.1       46.6       55.7       10         Fuel Oil       114       88       106       2,537       1,618       1,811       45.0       54.6       58.4       25         District Heat       38       16       Q       1,061       547       Q       35.4       29.7       Q       36         District Chilled Water       Q		101	137	121	2,983	2,531	2,617	34.0	54.3	46.3	24.48
Energy Sources (more than one may apply)  Electricity		112	26	0	2.169	1 220	1 150	E2 2	21.6	0	24.02
may apply)         Bod         414         513         17,059         8,871         9,215         47.1         46.6         55.7         10           Natural Gas         804         414         513         17,059         8,871         9,217         47.1         46.6         55.7         10           Fuel Oil         114         88         106         2,537         1,618         1,811         45.0         54.6         58.4         25           District Heat         38         16         Q         1,061         547         Q         35.4         29.7         Q         36           District Chilled Water         Q         14         Q         Q         Q         250         Q         Q         55.9         Q         Q           Propane         Q         Q         Q         Q         Q         Q         Q         Q         Q         N	rewei tiiaii 4,000 HDD	113	∠0	Ų	۷,۱۵۵	1,220	1,108	52.3	21.0	Q	24.92
Blectricity	``										
Natural Gas     804     414     513     17,059     8,871     9,217     47.1     46.6     55.7     10       Fuel Oil     114     88     106     2,537     1,618     1,811     45.0     54.6     58.4     25       District Heat     38     16     Q     1,061     547     Q     35.4     29.7     Q     36       District Chilled Water     Q     14     Q     Q     250     Q     Q     55.9     Q     25       Propane     Q     Q     Q     Q     Q     Q     Q     Q     Q     N		804	414	513	17,059	8,871	9,215	47.1	46.6	55.7	10.48
Fuel Oil     114     88     106     2,537     1,618     1,811     45.0     54.6     58.4     25       District Heat     38     16     Q     1,061     547     Q     35.4     29.7     Q     36       District Chilled Water     Q     14     Q     Q     250     Q     Q     55.9     Q     25       Propane     Q     Q     Q     Q     Q     Q     Q     Q     Q     Q											10.78
District Chilled Water         Q         14         Q         Q         250         Q         Q         55.9         Q         29           Propane         Q         Q         Q         Q         Q         Q         Q         Q         N	Fuel Oil		88	106	2,537	1,618	1,811	45.0	54.6	58.4	25.48
Propane					1,061		Q	35.4	29.7		36.86
											29.84
Anv Other											NF
,, _	Any Other	8	Q	Q	387	Q	Q	20.6	Q	Q	30.49

Table 3.37. Natural Gas Consumption and Conditional Energy Intensity in Older Buildings by Year Constructed, 1992 (Continued)

	Total Natural Gas Consumption (billion cubic feet)			Us	orspace of B ing Natural G lion square fo	as	Nat			
Building Characteristics	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	RSE
RSE Column Factor:	1.0	1.2	1.2	0.8	0.9	0.9	0.8	1.0	1.1	Row Factor
Energy End Uses (more than one may apply)										
Heated Buildings	802	404	510	16,963	8,822	8,938	47.3	45.8	57.1	10.79
Buildings with A/C	696	370	496	14,844	8,162	8,775	46.9	45.3	56.5	11.42
Buildings with Water Heating	781	407	497	16,147	8,500	8,840	48.3	47.8	56.2	11.04
Buildings with Cooking	297	200	247	6,128	4,163	4,115	48.5	48.0	59.9	13.77
Buildings with Manufacturing	74	16	40	1,206	283	533	61.5	58.1	74.8	31.83
Workers (main shift)										
Less than 5	153	51	73	3,857	1,604	1,502	39.8	31.8	48.8	12.34
5 to 9	106	40	Q	2,422	661	709	43.9	61.0	Q	15.34
10 to 19 20 to 49	99 208	48 87	77 80	2,351 3,149	922 1,728	1,136 1,616	42.3 66.0	52.1 50.3	67.6 49.6	21.92 19.76
50 to 99	111	73	45	2,469	1,726	1,018	44.9	50.3 56.3	44.3	24.33
100 or More	126	114	147	2,810	2,658	3,236	45.0	43.0	45.4	19.20
Weekly Operating Hours 39 or Fewer	75	29	35	2,233	805	612	33.6	36.6	56.9	20.43
40 to 48	178	63	57	4,436	1,668	1,551	40.2	38.0	36.6	12.61
49 to 60	181	72	94	4,412	1,600	1,473	41.0	45.2	63.5	23.34
61 to 84	120	72	133	2,456	2,052	2,177	49.0	35.2	61.3	21.08
85 to 167	98	68	78	1,960	1,548	1,730	50.0	43.8	44.9	19.86
Open Continuously	151	109	117	1,562	1,198	1,674	97.0	90.7	69.7	23.38
Ownership and Occupancy										
Nongovernment Owned	633	282	390	12,773	5,925	6,938	49.6	47.5	56.2	12.51
Owner Occupied	492	238	307	9,932	4,805	5,357	49.5	49.6	57.2	12.60
Single Establishment	408	218	272	7,415	4,052	4,039	55.0	53.8	67.3	13.48
Multiple Establishment  Nonowner Occupied	84 131	21 39	35 80	2,517 2,628	753 1,002	1,318 1,482	33.4 49.8	27.2 39.4	26.5 53.8	22.35 26.00
Single Establishment	99	18	28	1,305	337	560	Q	54.4	50.1	26.27
Multiple Establishment	32	21	Q	1,323	665	921	24.3	31.7	Q	22.56
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned	171	132	123	4,286	2,946	2,279	39.9	44.9	54.0	17.40
Predominant Exterior Wall Material										
Masonry	705	317	349	15,360	6,409	6,554	45.9	49.5	53.3	11.68
Siding or Shingles	42	9	18	900	242	299	46.6	39.0	60.3	22.94
Metal Panels	Q	35	Q	460	791	853	Q	44.1	Q	29.77
Concrete Panels	QQ	38 11	48 7	Q Q	1,121 188	1,104 291	Q Q	34.2 56.9	43.1 25.1	30.35 31.50
Other	Q	Q <sup>'</sup>	Q '	Q	Q	Q	Q	Q Q	Q Q	NF
Predominant Roof Material Built-Up	416	229	202	8,535	5,107	4,126	48.8	44.8	49.0	15.13
Shingles (Not Wood)	156	42	52	3,449	879	1,175	45.2	47.9	44.5	14.54
Metal Surfacing	Q	33	106	689	785	1,146	Q	Q	92.5	29.70
Synthetic or Rubber	119	83	130	2,903	1,663	2,132	41.2	50.2	61.1	16.57
Other	65	27	22	1,483	436	637	44.2	61.6	Q	24.84
Space-Heating Energy Source										
Natural Gas	747	376	446	14,964	7,858	7,649	49.9	47.8	58.3	11.47
Natural Gas Main	696	361	422	13,989	7,223	7,026	49.7	50.0	60.1	11.72
Natural Gas Secondary	Q	14	23	975	634	623	Q 07.5	22.5	37.4	27.77
Other Excluding Natural GasBuilding Not Heated	55 Q	29 Q	64 Q	1,999	965	1,289	27.5	29.9	49.9	20.42 NF
bulluling Not Heated	Ų	Q	Q	Q	Q	Q	Q	Q	Q	INF
· ·										

Table 3.37. Natural Gas Consumption and Conditional Energy Intensity in Older Buildings by Year Constructed, 1992 (Continued)

		otal Natural G Consumption illion cubic fe	1	Us	Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/sq. ft.)		
Building Characteristics	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	RSE
RSE Column Factor:	1.0	1.2	1.2	0.8	0.9	0.9	0.8	1.0	1.1	Row Factor
Primary Space-Heating Energy Source										
Electricity Natural Gas Fuel Oil District Heat Propane Wood Any Other	40 696 7 34 Q Q Q	22 361 Q 13 Q Q	60 422 Q Q Q Q	905 13,989 885 933 Q Q Q	725 7,223 Q 504 Q Q Q	1,275 7,026 Q 276 Q Q Q	44.8 49.7 7.8 36.8 Q Q Q	31.0 50.0 Q 25.4 Q Q	47.0 60.1 Q Q Q Q	20.68 11.72 31.31 30.82 NF NF NF
Replacement Energy Source for Primary Heating Electricity Only Natural Gas Only Fuel Oil Only Propane Only Any Other Single Energy Source More than One Energy Source No Replacement Energy Source Building Not Heated	31 14 119 18 Q 12 603 Q	11 Q 77 Q Q Q Q 280 Q	Q Q 110 16 Q Q 299 Q	845 418 1,867 447 Q 324 12,863 Q	385 Q 1,248 Q Q Q Q G,351 Q	387 Q 1,295 407 Q Q 6,519 Q	36.8 33.0 64.0 40.1 Q 38.2 46.9 Q	29.4 Q 62.0 Q Q Q 44.1	Q Q 85.1 39.7 Q Q 45.8 Q	20.75 31.86 26.91 23.03 NF 26.87 11.98 NF
Cooling Energy Source Natural Gas Other Excluding Natural Gas A/C Not Performed	112 584 108	20 350 44	33 463 17	593 14,250 2,215	428 7,734 709	423 8,351 442	188.9 41.0 48.7	45.7 45.3 61.6	77.1 55.5 39.0	31.43 11.30 21.44
Water-Heating Energy Source Natural Gas Other Excluding Natural Gas Water Heating Not Performed	633 147 24	346 60 7	353 144 16	11,756 4,391 912	6,536 1,964 371	5,733 3,107 377	53.9 33.6 25.9	53.0 30.7 19.0	61.6 46.4 42.1	12.20 20.30 19.70
Cooking Energy Source Natural Gas Other Excluding Natural Gas Cooking Not Performed	251 47 507	170 30 214	224 23 266	5,097 1,030 10,931	3,455 709 4,708	3,502 613 5,102	49.2 45.2 46.4	49.3 41.9 45.4	63.9 37.6 52.2	15.16 25.60 14.34
Percent of Floorspace Heated  Not Heated	Q 92 99 611	Q 34 50 321	Q 27 149 334	Q 3,322 3,075 10,566	Q 1,491 1,527 5,804	Q 1,080 1,431 6,427	Q 27.7 32.3 57.8	Q 22.5 32.7 55.3	Q 25.2 104.3 51.9	NF 30.62 20.96 10.84
Heating Equipment (more than one may apply) Heat Pumps Furnaces Individual Space Heaters District Heat Boilers Packaged Heating Units Other	46 279 250 Q 387 172 Q	26 145 137 13 228 101 Q	55 148 156 28 181 159 Q	1,191 6,303 5,454 1,109 7,587 3,097 Q	730 3,091 3,024 506 3,541 2,726 Q	1,019 2,321 3,836 488 3,218 3,003 Q	38.9 44.3 45.8 53.8 51.0 55.7 Q	35.1 46.8 45.2 25.5 64.5 36.9 Q	54.2 63.6 40.8 58.4 56.3 52.8 Q	26.27 20.79 16.44 35.00 13.20 17.17 NF
Annual Consumption (hundred cubic feet) 1,000 or Less 1,001 to 5,000 5,001 to 10,000 10,001 to 25,000 25,001 to 50,000 50,001 to 100,000 Over 100,000	22 122 103 149 109 94 205	7 44 37 70 65 45	8 53 55 78 45 34 241	2,358 4,769 2,537 2,981 1,870 1,032 1,512	1,143 2,021 907 1,658 1,031 666 1,446	943 2,184 1,207 1,575 982 732 1,593	9.2 25.7 40.7 50.1 58.2 91.2 135.4	6.1 21.6 41.3 42.1 63.1 67.7 100.8	8.3 24.2 45.5 49.2 45.7 46.7 151.3	14.65 10.79 13.26 15.29 18.56 24.24 28.60

Table 3.37. Natural Gas Consumption and Conditional Energy Intensity in Older Buildings by Year Constructed, 1992 (Continued)

	Total Natural Gas Consumption (billion cubic feet)			Us	oorspace of B ing Natural G llion square fo	ias	Nat			
Building Characteristics	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	1959 or Before	1960-1969	1970-1979	RSE
RSE Column Factor:	1.0	1.2	1.2	0.8	0.9	0.9	0.8	1.0	1.1	Row Factor
Gas Transported for the Account of Others Used in Building Not Used in Building	158 647	59 354	101 412	1,246 15,813	710 8,162	986 8,231	126.5 40.9	83.7 43.4	102.6 50.0	34.49 10.45

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • Statistics for the "energy end uses" represent consumption in buildings that have end use, not consumption for a particular end use. • A/C = Air Conditioning. • Because of rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A through F of the 1992 Commercial Buildings Energy Consumption

Table 3.38. Natural Gas Consumption and Conditional Energy Intensity in Newer Buildings by Year Constructed, 1992

					•					
	(	otal Natural G Consumption Ilion cubic fe	1	Usi	orspace of B ing Natural G lion square f	ias		ural Gas End Intensity ubic feet/sq.	-	
Building Characteristics	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	
RSE Column Factor:	1.0	1.2	1.3	0.7	1.0	1.1	0.8	0.9	1.1	RSE Row Factor
All Buildings	261	75	47	6,265	1,957	1,625	41.6	38.2	28.7	14.79
Building Floorspace (square feet) 1,001 to 5,000 5,001 to 10,000 10,001 to 25,000 25,001 to 50,000 50,001 to 100,000 100,001 to 200,000 200,001 to 500,000 Over 500,000	17 30 50 40 27 29	11 10 12 16 Q 5 Q	3 3 Q 7 Q 4 11 2	373 420 884 656 857 1,283 890 902	127 163 400 260 270 256 Q 238	56 91 214 259 167 185 471 181	Q 40.2 33.4 75.5 46.8 20.8 32.6 18.8	85.0 62.6 31.0 61.6 41.0 20.6 27.9 9.5	46.6 34.8 39.2 25.2 50.4 21.7 23.6 12.9	26.95 27.34 23.61 28.94 30.11 32.81 33.44 29.32
Principal Building Activity Education Food Sales Food Service Health Care Lodging Mercantile and Service Office Parking Garage Public Assembly Public Order and Safety Religious Worship Warehouse and Storage Other	Q 17 21 48 37 Q Q Q 3	3 Q Q Q 8 14 Q Q Q Q	Q Q Q 0 6 Q 11 Q Q Q	371 Q 100 186 458 1,474 1,270 Q 314 Q 220 1,379 75 Q	90 Q Q Q 362 617 Q Q Q 306 Q	Q Q Q 96 336 431 29 156 Q Q 230 Q	36.2 Q 172.8 110.5 104.4 24.8 Q Q 25.4 Q 14.8 25.8 84.0 Q	34.0 Q Q Q Q 21.5 23.0 Q Q Q Q Q	26.3 Q Q 59.3 Q 26.2 21.0 Q Q 11.3 Q	25.23 NF 35.08 34.77 32.35 24.73 22.66 36.20 38.25 NF 37.28 29.77 62.26 17.54
Census Region and Division Northeast New England Middle Atlantic Midwest East North Central West North Central South South Atlantic East South Central West South Central West Mountain Pacific	Q Q 87 51 36 77 14 20 Q 49 22	13 Q 6 20 12 8 24 3 Q 9 17 Q	7 Q Q 17 13 4 14 5 Q Q 8 Q	1,048 Q 634 2,003 938 1,064 1,863 612 525 726 1,352 436 916	311 Q 243 433 240 192 746 258 214 273 468 129 339	164 Q 142 527 308 219 476 Q 190 82 458 Q 314	45.8 Q 65.2 43.4 53.9 34.2 41.2 23.3 38.9 Q 36.2 51.4 29.0	42.4 Q 24.7 46.5 51.9 39.9 32.9 32.9 34.7 34.4 36.3 18.2 43.3	42.5 Q 44.1 32.8 43.6 17.7 29.1 Q 40.4 18.5 18.4 Q 20.7	34.62 NF 32.37 21.06 25.86 31.69 28.88 31.74 24.35 31.65 26.38 32.51 32.37
Climate Zone: 45-Year Average Fewer than 2,000 CDD and More than 7,000 HDD	82 43 51	Q 23 10 29	Q 17 9 16	499 1,858 1,250 1,580	Q 452 366 745	Q 541 323 552	55.1 44.0 34.4 32.4 Q	Q 50.8 27.0 39.1 25.1	Q 31.7 28.9 28.3	35.61 24.82 28.18 23.61 32.59
Energy Sources (more than one may apply) Electricity	261 51 Q	75 75 18 Q Q Q	47 47 21 Q Q Q Q	6,260 6,265 1,432 Q 145 Q	1,957 1,957 460 Q Q Q Q	1,624 1,625 568 Q 62 Q	41.6 41.6 35.8 Q 85.9 33.6 Q	38.2 38.2 38.9 Q Q Q	28.7 28.7 37.2 Q Q Q	15.44 14.79 31.84 NF 47.25 31.98 NF

Table 3.38. Natural Gas Consumption and Conditional Energy Intensity in Newer Buildings by Year Constructed, 1992 (Continued)

		<u> </u>				<u> </u>				
	Total Natural Gas Consumption (billion cubic feet)			Us	orspace of B ing Natural G lion square f	as	Nat (cı			
Building Characteristics	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	
RSE Column Factor:	1.0	1.2	1.3	0.7	1.0	1.1	0.8	0.9	1.1	RSE Row Factor
Energy End Uses (more than one										
may apply) Heated Buildings	261	74	47	6,249	1,954	1,600	41.7	37.8	29.1	14.79
Buildings with A/C	251	74 72	46	6,070	1,904	1,569	41.7	37.8	29.1	15.02
Buildings with Water Heating	256	73	45	6,064	1,922	1,574	42.2	38.0	28.4	15.29
Buildings with Cooking	114	36	21	2,564	877	612	44.4	41.2	34.8	22.84
Buildings with Manufacturing	18	Q	Q	412	Q	Q	44.5	Q	Q	39.19
Workers (main shift)										
Less than 5	30	9	5	755	164	170	39.5	55.5	29.8	29.05
5 to 9	Q	6	3	432	160	115	Q	35.3	23.5	24.67
10 to 19	24	14	Q	682	233	149	35.5	60.1	49.8	25.43
20 to 49	61	19	6	1,133	417	315	53.9	44.5	18.1	30.15
50 to 99	27 73	9 19	7 19	692 2,571	281 702	215 661	39.1 28.5	32.0 26.4	31.2 28.7	26.75 25.92
100 of Word	/3	10	10	2,071	702	001	20.0	20.4	20.7	20.02
Weekly Operating Hours		_			_			_		
39 or Fewer	3	Q	2	213	Q	104	13.3	Q o= 4	21.2	32.45
40 to 48	60 32	10 9	9 7	1,153 1,190	386 412	336 465	51.9 26.9	25.4 21.1	27.8 15.6	27.36 21.14
61 to 84	45	10	5	1,190	376	218	24.3	25.4	21.3	22.38
85 to 167	31	19	Q	730	343	199	42.5	54.7	48.1	31.93
Open Continuously	90	25	14	1,127	387	303	79.9	65.5	Q	28.57
Ownership and Occupancy										
Nongovernment Owned	222	66	34	5,565	1,708	1,174	39.9	38.7	29.1	16.49
Owner Occupied	189	49	32	4,014	1,118	901	47.0	43.8	35.1	18.24
Single Establishment	166	44	27	2,523	899	692	65.9	48.6	38.5	19.78
Multiple Establishment	23	5	Q	1,491	220	208	15.1	24.0	23.9	32.62
Nonowner Occupied	32	17	3	1,505	575	274	21.1	29.4	9.4	23.70
Single Establishment	10 22	10 7	Q 1	299 1,206	224 351	Q 130	31.8 18.5	42.7 20.9	8.9 9.8	35.59 28.53
Vacant	Q	Q '	Q '	1,200 Q	Q	Q	Q Q	Q Q	Q.	26.55 NF
Government Owned	39	9	12	700	249	450	55.4	35.0	27.6	27.22
Due de minerat Futerier Well Meteriel										
Predominant Exterior Wall Material Masonry	156	51	30	3,649	1,247	1,068	42.7	40.5	27.7	17.58
Siding or Shingles	19	8	Q	399	83	1,008 Q	47.6	94.6	Q Q	33.64
Metal Panels	61	5	3	1,073	180	92	57.3	28.2	34.8	32.07
Concrete Panels	15	Q	7	547	Q	307	27.0	31.7	23.4	33.30
Window Glass	3	Q	1	287	105	41	11.6	7.9	13.5	31.07
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Predominant Roof Material										
Built-Up	87	20	15	2,344	689	486	37.0	29.3	30.6	23.97
Shingles (Not Wood)	60	7	3	787	98	123	75.7	74.2	22.7	34.43
Metal Surfacing	40 55	15 23	5 21	1,067	394	204	37.7	38.0	25.1	21.10
Synthetic or Rubber Other	19	23 10	Q	1,355 712	603 174	670 141	40.9 26.3	37.4 56.7	31.3 19.9	25.82 37.65
		• •	-	-=				****		
Space-Heating Energy Source Natural Gas	047		4.4	E 117	1 555	4 205	40.0	27.4	20.0	16.00
Natural Gas Natural Gas Main	217 195	58 57	41 39	5,117 4,180	1,555 1,485	1,325 1,225	42.3 46.6	37.1 38.4	30.8 31.7	16.39 16.75
Natural Gas Nam	22	Q Q	Q	936	1, <del>4</del> 65 Q	1,225 Q	23.0	36.4 Q	31.7 Q	38.33
Other Excluding Natural Gas	44	16	6	1,133	399	276	38.9	40.8	20.8	23.49
Building Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
-										

Table 3.38. Natural Gas Consumption and Conditional Energy Intensity in Newer Buildings by Year Constructed, 1992 (Continued)

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/sq. ft.)			
Building Characteristics	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	
RSE Column Factor:	1.0	1.2	1.3	0.7	1.0	1.1	0.8	0.9	1.1	RSE Row Factor
Primary Space-Heating Energy Source Electricity Natural Gas Fuel Oil District Heat Propane Wood Any Other	195 Q 22 Q Q	Q 57 Q Q Q Q	6 39 Q Q Q Q	1,648 4,180 Q 398 Q Q Q	397 1,485 Q Q Q Q Q	296 1,225 Q 72 Q Q	26.5 46.6 1.5 55.0 Q Q	33.1 38.4 Q Q Q Q	21.8 31.7 Q Q Q Q	26.91 16.75 16.55 36.58 NF NF NF
Replacement Energy Source for Primary Heating Electricity Only	Q 31 Q Q Q Q 163	Q Q Q Q Q Q	Q Q Q Q Q Q 38 Q	318 Q 416 240 Q Q Q 5,071	113 Q Q Q Q Q Q 1,546 Q	Q Q 81 Q Q Q 1,396 Q	Q Q 75.0 Q Q Q 32.1 Q	Q Q Q Q Q 38.6 Q	Q Q 75.0 Q Q Q 27.2	39.08 NF 29.85 55.72 NF NF 13.82 NF
Cooling Energy Source Natural Gas Other Excluding Natural Gas A/C Not Performed	238	Q 70 Q	Q 44 Q	368 5,703 195	Q 1,855 53	Q 1,525 Q	35.5 41.8 47.6	Q 37.7 Q	Q 29.0 18.3	32.34 15.43 32.59
Water-Heating Energy Source Natural Gas Other Excluding Natural Gas Water Heating Not Performed		57 16 Q	34 11 Q	3,634 2,430 201	1,175 747 Q	1,117 457 50	47.9 33.6 23.3	48.7 21.2 Q	30.0 24.4 37.2	15.87 26.25 41.45
Cooking Energy Source Natural Gas Other Excluding Natural Gas Cooking Not Performed	12	33 3 39	13 Q 25	1,950 614 3,701	748 129 1,080	452 Q 1,013	52.2 19.6 39.7	44.8 20.3 35.9	28.9 Q 25.0	24.85 32.81 16.28
Percent of Floorspace Heated  Not Heated  1 to 50  51 to 99  100	Q 10 32 218	Q Q 15 54	Q 1 7 38	Q 875 1,101 4,274	Q 240 305 1,410	Q Q 247 1,176	Q 12.0 29.0 51.0	Q 21.6 49.5 38.1	Q Q 27.2 32.7	NF 34.10 28.82 15.85
Heating Equipment (more than one may apply) Heat Pumps	105 109 22 78	Q 18 18 Q 17 40 Q	6 9 18 Q 19 14 Q	1,316 1,893 2,709 406 1,806 2,367 Q	179 415 631 81 436 960 Q	222 307 567 89 434 752 Q	49.5 55.4 40.2 54.0 43.1 34.2 Q	47.7 42.6 28.4 Q 38.4 41.3 Q	27.8 30.9 31.3 Q 43.0 19.1 Q	39.26 26.99 22.83 36.57 25.54 20.64 NF
Annual Consumption (hundred cubic feet) 1,000 or Less 1,001 to 5,000 5,001 to 10,000 10,001 to 25,000 25,001 to 50,000 50,001 to 100,000 Over 100,000	21 40 36	1 12 8 17 18 Q Q	1 7 Q 6 6 5 18	542 1,567 549 1,076 1,110 668 751	182 488 256 388 345 Q	143 425 Q 369 183 94 205	8.2 19.8 38.0 37.2 32.8 56.3 119.9	7.9 23.6 29.5 43.1 51.7 Q	5.5 15.8 Q 17.4 31.2 48.8 86.8	23.60 17.83 27.98 24.99 33.22 25.61 38.83

Table 3.38. Natural Gas Consumption and Conditional Energy Intensity in Newer Buildings by Year Constructed, 1992 (Continued)

	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/sq. ft.)			
Building Characteristics	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	1980-1986	1987-1989	1990-1992	
RSE Column Factor:	1.0	1.2	1.3	0.7	1.0	1.1	0.8	0.9	1.1	RSE Row Factor
Gas Transported for the Account of Others Used in Building Not Used in Building	Q 246	Q 73	Q 38	Q 6,100	Q 1,905	Q 1,502	Q 40.3	Q 38.4	Q 25.2	NF 14.91

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding RSE coulumn and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • 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. • Because of rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A through F of the 1992 Commercial Buildings Energy Consumption

Survey.