

**Table E1A. Major Fuel Consumption (Btu) by End Use for All Buildings, 2003**

	Total Major Fuel Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings</b> .....	6,523	2,365	516	436	501	1,340	190	381	69	156	569
<b>Building Floorspace (Square Feet)</b>											
1,001 to 5,000 .....	685	213	46	18	49	96	49	138	8	12	56
5,001 to 10,000 .....	563	212	39	18	43	95	37	57	6	10	46
10,001 to 25,000 .....	899	357	57	52	51	184	29	57	10	20	83
25,001 to 50,000 .....	742	281	63	55	60	140	16	37	7	17	66
50,001 to 100,000 .....	913	325	79	78	67	202	17	35	7	20	83
100,001 to 200,000 .....	1,064	399	84	91	81	234	11	30	Q	33	89
200,001 to 500,000 .....	751	286	58	56	69	170	14	10	8	20	61
Over 500,000 .....	906	292	91	67	81	220	18	19	Q	25	85
<b>Principal Building Activity</b>											
Education .....	820	389	79	83	57	113	8	16	4	32	39
Food Sales .....	251	36	12	7	4	46	11	119	2	2	11
Food Service .....	427	71	29	24	67	42	105	70	2	2	16
Health Care .....	594	223	44	42	95	105	11	8	4	10	51
Inpatient .....	475	175	35	38	92	76	11	4	2	7	34
Outpatient .....	119	48	9	4	3	28	Q	4	2	3	17
Lodging .....	510	113	25	14	160	124	16	12	Q	6	36
Mercantile .....	1,021	269	110	68	57	308	26	49	8	11	115
Retail (Other Than Mall) .....	319	107	25	16	5	111	3	22	3	4	24
Enclosed and Strip Malls .....	702	162	85	51	53	197	24	27	5	8	91
Office .....	1,134	400	109	63	24	281	4	35	32	74	110
Public Assembly .....	370	196	38	63	4	27	3	9	Q	Q	26
Public Order and Safety .....	126	54	10	10	15	18	1	3	1	2	12
Religious Worship .....	163	98	11	5	3	17	3	6	(*)	1	19
Service .....	312	145	16	24	4	63	Q	9	1	3	46
Warehouse and Storage .....	456	194	14	20	6	132	Q	36	2	5	48
Other .....	286	138	18	11	4	59	Q	10	Q	5	33
Vacant .....	54	37	2	1	(*)	4	Q	Q	Q	(*)	8
<b>Year Constructed</b>											
Before 1920 .....	303	181	7	11	17	35	17	Q	2	4	15
1920 to 1945 .....	631	318	26	30	43	92	20	26	3	8	64
1946 to 1959 .....	588	284	32	36	46	94	13	27	4	11	41
1960 to 1969 .....	791	353	48	53	68	127	15	42	7	19	60
1970 to 1979 .....	1,191	397	97	86	101	265	32	64	14	29	106
1980 to 1989 .....	1,247	359	122	82	103	298	33	74	17	39	120
1990 to 1999 .....	1,262	352	129	101	84	294	40	91	18	36	117
2000 to 2003 .....	511	122	55	37	39	136	20	41	4	10	47
<b>Census Region and Division</b>											
Northeast .....	1,396	674	55	76	93	239	38	63	13	32	113
New England .....	345	186	10	15	20	55	Q	21	2	7	21
Middle Atlantic .....	1,052	488	45	60	74	184	31	42	11	25	92
Midwest .....	1,799	874	67	109	107	313	38	92	16	36	146
East North Central .....	1,343	676	46	83	77	230	28	62	12	27	102
West North Central .....	456	198	21	26	30	83	10	30	4	9	45
South .....	2,265	519	308	179	191	543	82	167	20	58	198
South Atlantic .....	1,241	278	162	99	100	311	40	95	12	37	106
East South Central .....	340	113	27	25	32	72	10	25	2	6	28
West South Central .....	684	128	119	54	59	160	31	47	6	15	64
West .....	1,063	298	86	72	109	245	33	59	20	30	112
Mountain .....	446	167	31	27	41	94	7	20	Q	9	43
Pacific .....	617	131	55	45	68	151	25	39	Q	21	69

**Table E1A. Major Fuel Consumption (Btu) by End Use for All Buildings, 2003**

	Total Major Fuel Consumption (trillion Btu)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings</b> .....	6,523	2,365	516	436	501	1,340	190	381	69	156	569
<b>Climate Zone: 30-Year Average</b>											
Under 2,000 CDD and --											
More than 7,000 HDD .....	1,086	555	27	66	67	180	22	62	9	18	80
5,500-7,000 HDD .....	1,929	913	75	109	127	352	46	94	17	41	154
4,000-5,499 HDD .....	1,243	463	78	77	95	259	37	65	19	32	118
Fewer than 4,000 HDD .....	1,386	328	143	108	134	330	53	101	15	35	139
2,000 CDD or More and --											
Fewer than 4,000 HDD .....	879	106	193	76	78	219	32	59	8	29	79
<b>Number of Establishments</b>											
One .....	4,167	1,562	289	272	362	790	139	290	42	87	334
2 to 5 .....	1,161	460	84	74	75	245	27	55	13	26	101
6 to 10 .....	378	135	32	25	19	89	8	11	4	18	37
11 to 20 .....	307	82	37	25	17	82	7	11	3	8	34
More than 20 .....	473	98	74	39	27	131	9	13	7	17	57
Currently Unoccupied .....	37	28	Q	(*)	Q	3	Q	Q	Q	Q	5
<b>Energy Sources (more than one may apply)</b>											
Electricity .....	6,522	2,364	516	436	501	1,340	190	381	69	156	569
Natural Gas .....	5,042	1,878	356	333	436	987	183	259	47	114	448
Fuel Oil .....	1,867	683	142	129	204	389	36	47	25	52	160
District Heat .....	1,029	609	34	70	60	150	Q	12	5	29	50
<b>Energy End Uses (more than one may apply)</b>											
Buildings with Space Heating .....	6,370	2,365	488	425	490	1,297	183	361	68	153	540
Buildings with Cooling .....	6,149	2,140	516	420	479	1,285	186	367	68	154	533
Buildings with Water Heating .....	6,158	2,179	493	417	501	1,262	190	362	67	152	535

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - <http://www.eia.doe.gov/emeu/cbecs>.

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

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

**Table E2A. Major Fuel Consumption (Btu) Intensities by End Use for All Buildings, 2003**

	Major Fuel Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings</b> .....	91.0	33.0	7.2	6.1	7.0	18.7	2.7	5.3	1.0	7.9	2.5
<b>Building Floorspace (Square Feet)</b>											
1,001 to 5,000 .....	99.0	30.7	6.7	2.7	7.1	13.9	7.1	19.9	1.1	8.2	2.9
5,001 to 10,000 .....	80.0	30.1	5.5	2.6	6.1	13.6	5.2	8.2	0.8	6.6	1.8
10,001 to 25,000 .....	71.0	28.2	4.5	4.1	4.1	14.5	2.3	4.5	0.8	6.5	1.9
25,001 to 50,000 .....	79.0	29.9	6.8	5.9	6.3	14.9	1.7	3.9	0.8	7.1	2.0
50,001 to 100,000 .....	88.7	31.6	7.6	7.6	6.5	19.6	1.7	3.4	0.7	8.1	2.0
100,001 to 200,000 .....	104.2	39.1	8.2	8.9	7.9	22.9	1.1	2.9	Q	8.7	3.5
200,001 to 500,000 .....	100.2	38.2	7.8	7.4	9.2	22.7	1.8	1.3	1.1	8.2	2.8
Over 500,000 .....	118.2	38.2	11.8	8.8	10.6	28.7	2.3	2.4	Q	11.1	3.3
<b>Principal Building Activity</b>											
Education .....	83.1	39.4	8.0	8.4	5.8	11.5	0.8	1.6	0.4	4.0	3.4
Food Sales .....	199.7	28.9	9.8	5.9	2.9	36.7	8.6	94.8	1.6	9.1	1.9
Food Service .....	258.3	43.1	17.4	14.8	40.4	25.4	63.5	42.1	1.0	9.5	1.4
Health Care .....	187.7	70.4	14.1	13.3	30.2	33.1	3.5	2.6	1.2	16.1	3.4
Inpatient .....	249.2	91.8	18.6	20.0	48.4	40.1	5.6	2.0	1.1	18.1	3.9
Outpatient .....	94.6	38.1	7.2	3.3	2.5	22.6	Q	3.5	1.3	13.2	2.6
Lodging .....	100.0	22.2	4.9	2.7	31.4	24.3	3.2	2.3	Q	7.0	1.3
Mercantile .....	91.3	24.0	9.9	6.0	5.1	27.5	2.3	4.4	0.7	10.3	1.1
Retail (Other Than Mall) .....	73.9	24.8	5.9	3.7	1.1	25.7	0.6	5.0	0.6	5.6	1.0
Enclosed and Strip Malls .....	102.2	23.6	12.4	7.5	7.7	28.6	3.4	4.0	0.8	13.2	1.1
Office .....	92.9	32.8	8.9	5.2	2.0	23.1	0.3	2.9	2.6	9.0	6.1
Public Assembly .....	93.9	49.7	9.6	15.9	1.0	7.0	0.8	2.2	Q	6.5	Q
Public Order and Safety .....	115.8	49.9	8.9	9.5	14.0	16.5	1.3	2.9	0.6	10.6	1.6
Religious Worship .....	43.5	26.2	2.9	1.4	0.8	4.4	0.8	1.7	0.1	4.9	0.3
Service .....	77.0	35.9	3.8	6.0	1.0	15.6	Q	2.1	0.3	11.4	1.0
Warehouse and Storage .....	45.2	19.3	1.3	2.0	0.6	13.1	Q	3.5	0.2	4.8	0.6
Other .....	164.4	79.4	10.5	6.1	2.1	34.1	Q	6.0	Q	18.9	3.0
Vacant .....	20.9	14.4	0.6	0.4	0.1	1.7	Q	Q	Q	3.1	Q
<b>Year Constructed</b>											
Before 1920 .....	80.2	47.7	1.8	2.9	4.4	9.1	4.4	4.4	0.5	3.9	1.2
1920 to 1945 .....	90.4	45.5	3.8	4.4	6.2	13.2	2.9	3.7	0.4	9.1	1.5
1946 to 1959 .....	80.9	39.1	4.5	4.9	6.3	12.9	1.9	3.7	0.6	5.7	1.9
1960 to 1969 .....	91.5	40.8	5.6	6.1	7.8	14.7	1.7	4.8	0.8	6.9	2.5
1970 to 1979 .....	97.0	32.3	7.9	7.0	8.3	21.6	2.6	5.2	1.1	8.6	2.6
1980 to 1989 .....	100.0	28.8	9.8	6.6	8.2	23.9	2.7	6.0	1.3	9.6	3.4
1990 to 1999 .....	90.2	25.2	9.2	7.2	6.0	21.0	2.9	6.5	1.3	8.4	2.9
2000 to 2003 .....	81.6	19.4	8.8	5.9	6.3	21.7	3.3	6.5	0.7	7.4	1.8
<b>Census Region and Division</b>											
Northeast .....	99.8	48.2	3.9	5.4	6.7	17.1	2.7	4.5	0.9	8.1	2.5
New England .....	99.8	53.9	3.0	4.5	5.8	16.0	1.9	6.0	0.7	6.0	2.3
Middle Atlantic .....	99.7	46.3	4.2	5.7	7.0	17.4	3.0	4.0	1.0	8.7	2.6
Midwest .....	99.4	48.3	3.7	6.0	5.9	17.3	2.1	5.1	0.9	8.1	2.4
East North Central .....	108.1	54.4	3.7	6.7	6.2	18.5	2.2	5.0	1.0	8.2	2.6
West North Central .....	80.2	34.8	3.8	4.6	5.3	14.6	1.8	5.3	0.6	7.8	1.9
South .....	84.7	19.4	11.5	6.7	7.1	20.3	3.1	6.3	0.8	7.4	2.5
South Atlantic .....	88.7	19.9	11.6	7.1	7.1	22.2	2.9	6.8	0.9	7.6	3.1
East South Central .....	91.4	30.3	7.2	6.6	8.6	19.5	2.7	6.8	0.6	7.6	1.8
West South Central .....	75.8	14.2	13.2	6.0	6.5	17.7	3.5	5.2	0.7	7.1	2.0
West .....	82.9	23.2	6.7	5.6	8.5	19.1	2.6	4.6	1.6	8.8	2.6
Mountain .....	106.1	39.8	7.4	6.4	9.7	22.4	1.8	4.8	Q	10.2	2.4
Pacific .....	71.6	15.2	6.4	5.2	7.9	17.5	2.9	4.5	Q	8.0	2.7

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	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
<b>All Buildings</b> .....	91.0	33.0	7.2	6.1	7.0	18.7	2.7	5.3	1.0	7.9	2.5
<b>Climate Zone: 30-Year Average</b>											
Under 2,000 CDD and --											
More than 7,000 HDD .....	94.2	48.1	2.4	5.7	5.8	15.6	1.9	5.4	0.8	6.9	1.9
5,500-7,000 HDD .....	102.6	48.5	4.0	5.8	6.8	18.7	2.5	5.0	0.9	8.2	2.5
4,000-5,499 HDD .....	99.4	37.0	6.3	6.1	7.6	20.7	3.0	5.2	1.5	9.4	2.8
Fewer than 4,000 HDD .....	78.6	18.6	8.1	6.1	7.6	18.7	3.0	5.7	0.9	7.9	2.4
2,000 CDD or More and --											
Fewer than 4,000 HDD .....	78.6	9.5	17.3	6.8	6.9	19.5	2.9	5.3	0.8	7.0	2.9
<b>Number of Establishments</b>											
One .....	92.3	34.6	6.4	6.0	8.0	17.5	3.1	6.4	0.9	7.4	2.2
2 to 5 .....	92.4	36.6	6.6	5.9	6.0	19.5	2.1	4.4	1.1	8.1	2.2
6 to 10 .....	112.6	40.1	9.4	7.5	5.7	26.6	2.5	3.3	1.2	11.1	5.3
11 to 20 .....	91.1	24.3	11.0	7.5	5.1	24.3	2.0	3.3	1.0	10.2	2.5
More than 20 .....	93.4	19.4	14.6	7.8	5.4	26.0	1.7	2.7	1.3	11.2	3.4
Currently Unoccupied .....	17.2	12.8	Q	0.1	(*)	1.2	Q	Q	Q	2.3	Q
<b>Energy Sources (more than one may apply)</b>											
Electricity .....	92.9	33.7	7.4	6.2	7.1	19.1	2.7	5.4	1.0	8.1	2.5
Natural Gas .....	104.0	38.7	7.3	6.9	9.0	20.4	3.8	5.3	1.0	9.2	2.5
Fuel Oil .....	114.8	42.0	8.7	8.0	12.5	23.9	2.2	2.9	1.5	9.8	3.4
District Heat .....	184.6	109.3	6.0	12.6	10.8	26.9	Q	2.2	0.8	8.9	5.6
<b>Energy End Uses (more than one may apply)</b>											
Buildings with Space Heating .....	95.9	35.6	7.3	6.4	7.4	19.5	2.8	5.4	1.0	8.1	2.5
Buildings with Cooling .....	96.7	33.7	8.1	6.6	7.5	20.2	2.9	5.8	1.1	8.4	2.6
Buildings with Water Heating .....	98.0	34.7	7.8	6.6	8.0	20.1	3.0	5.8	1.1	8.5	2.6

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