

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
All Buildings	6,523	2,365	516	436	501	1,340	190	381	69	156	569
Building Floorspace (Square Feet)											
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
Principal Building Activity											
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
Year Constructed											
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
Census Region and Division											
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
All Buildings	6,523	2,365	516	436	501	1,340	190	381	69	156	569
Climate Zone: 30-Year Average											
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
Number of Establishments											
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
Energy Sources (more than one may apply)											
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
Energy End Uses (more than one may apply)											
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
All Buildings	91.0	33.0	7.2	6.1	7.0	18.7	2.7	5.3	1.0	2.2	7.9
Building Floorspace (Square Feet)											
1,001 to 5,000	99.0	30.7	6.7	2.7	7.1	13.9	7.1	19.9	1.1	1.7	8.2
5,001 to 10,000	80.0	30.1	5.5	2.6	6.1	13.6	5.2	8.2	0.8	1.4	6.6
10,001 to 25,000	71.0	28.2	4.5	4.1	4.1	14.5	2.3	4.5	0.8	1.6	6.5
25,001 to 50,000	79.0	29.9	6.8	5.9	6.3	14.9	1.7	3.9	0.8	1.8	7.1
50,001 to 100,000	88.7	31.6	7.6	7.6	6.5	19.6	1.7	3.4	0.7	2.0	8.1
100,001 to 200,000	104.2	39.1	8.2	8.9	7.9	22.9	1.1	2.9	Q	3.2	8.7
200,001 to 500,000	100.2	38.2	7.8	7.4	9.2	22.7	1.8	1.3	1.1	2.6	8.2
Over 500,000	118.2	38.2	11.8	8.8	10.6	28.7	2.3	2.4	Q	3.2	11.1
Principal Building Activity											
Education	83.1	39.4	8.0	8.4	5.8	11.5	0.8	1.6	0.4	3.3	4.0
Food Sales	199.7	28.9	9.8	5.9	2.9	36.7	8.6	94.8	1.6	1.5	9.1
Food Service	258.3	43.1	17.4	14.8	40.4	25.4	63.5	42.1	1.0	1.0	9.5
Health Care	187.7	70.4	14.1	13.3	30.2	33.1	3.5	2.6	1.2	3.2	16.1
Inpatient	249.2	91.8	18.6	20.0	48.4	40.1	5.6	2.0	1.1	3.6	18.1
Outpatient	94.6	38.1	7.2	3.3	2.5	22.6	Q	3.5	1.3	2.6	13.2
Lodging	100.0	22.2	4.9	2.7	31.4	24.3	3.2	2.3	Q	1.2	7.0
Mercantile	91.3	24.0	9.9	6.0	5.1	27.5	2.3	4.4	0.7	1.0	10.3
Retail (Other Than Mall)	73.9	24.8	5.9	3.7	1.1	25.7	0.6	5.0	0.6	0.9	5.6
Enclosed and Strip Malls	102.2	23.6	12.4	7.5	7.7	28.6	3.4	4.0	0.8	1.1	13.2
Office	92.9	32.8	8.9	5.2	2.0	23.1	0.3	2.9	2.6	6.1	9.0
Public Assembly	93.9	49.7	9.6	15.9	1.0	7.0	0.8	2.2	Q	Q	6.5
Public Order and Safety	115.8	49.9	8.9	9.5	14.0	16.5	1.3	2.9	0.6	1.5	10.6
Religious Worship	43.5	26.2	2.9	1.4	0.8	4.4	0.8	1.7	0.1	0.2	4.9
Service	77.0	35.9	3.8	6.0	1.0	15.6	Q	2.1	0.3	0.8	11.4
Warehouse and Storage	45.2	19.3	1.3	2.0	0.6	13.1	Q	3.5	0.2	0.5	4.8
Other	164.4	79.4	10.5	6.1	2.1	34.1	Q	6.0	Q	2.9	18.9
Vacant	20.9	14.4	0.6	0.4	0.1	1.7	Q	Q	Q	0.0	3.1
Year Constructed											
Before 1920	80.2	47.7	1.8	2.9	4.4	9.1	4.4	4.4	0.5	0.9	3.9
1920 to 1945	90.4	45.5	3.8	4.4	6.2	13.2	2.9	3.7	0.4	1.2	9.1
1946 to 1959	80.9	39.1	4.5	4.9	6.3	12.9	1.9	3.7	0.6	1.5	5.7
1960 to 1969	91.5	40.8	5.6	6.1	7.8	14.7	1.7	4.8	0.8	2.2	6.9
1970 to 1979	97.0	32.3	7.9	7.0	8.3	21.6	2.6	5.2	1.1	2.3	8.6
1980 to 1989	100.0	28.8	9.8	6.6	8.2	23.9	2.7	6.0	1.3	3.1	9.6
1990 to 1999	90.2	25.2	9.2	7.2	6.0	21.0	2.9	6.5	1.3	2.6	8.4
2000 to 2003	81.6	19.4	8.8	5.9	6.3	21.7	3.3	6.5	0.7	1.6	7.4
Census Region and Division											
Northeast	99.8	48.2	3.9	5.4	6.7	17.1	2.7	4.5	0.9	2.3	8.1
New England	99.8	53.9	3.0	4.5	5.8	16.0	1.9	6.0	0.7	2.0	6.0
Middle Atlantic	99.7	46.3	4.2	5.7	7.0	17.4	3.0	4.0	1.0	2.4	8.7
Midwest	99.4	48.3	3.7	6.0	5.9	17.3	2.1	5.1	0.9	2.0	8.1
East North Central	108.1	54.4	3.7	6.7	6.2	18.5	2.2	5.0	1.0	2.2	8.2
West North Central	80.2	34.8	3.8	4.6	5.3	14.6	1.8	5.3	0.6	1.6	7.8
South	84.7	19.4	11.5	6.7	7.1	20.3	3.1	6.3	0.8	2.2	7.4
South Atlantic	88.7	19.9	11.6	7.1	7.1	22.2	2.9	6.8	0.9	2.7	7.6
East South Central	91.4	30.3	7.2	6.6	8.6	19.5	2.7	6.8	0.6	1.5	7.6
West South Central	75.8	14.2	13.2	6.0	6.5	17.7	3.5	5.2	0.7	1.7	7.1
West	82.9	23.2	6.7	5.6	8.5	19.1	2.6	4.6	1.6	2.3	8.8
Mountain	106.1	39.8	7.4	6.4	9.7	22.4	1.8	4.8	Q	2.1	10.2
Pacific	71.6	15.2	6.4	5.2	7.9	17.5	2.9	4.5	Q	2.4	8.0

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	Major Fuel Energy Intensity (thousand Btu/square foot)										
	Total	Space Heating	Cooling	Ventilation	Water Heating	Lighting	Cooking	Refrigeration	Office Equipment	Computers	Other
All Buildings	91.0	33.0	7.2	6.1	7.0	18.7	2.7	5.3	1.0	2.2	7.9
Climate Zone: 30-Year Average											
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	1.6	6.9
5,500-7,000 HDD	102.6	48.5	4.0	5.8	6.8	18.7	2.5	5.0	0.9	2.2	8.2
4,000-5,499 HDD	99.4	37.0	6.3	6.1	7.6	20.7	3.0	5.2	1.5	2.6	9.4
Fewer than 4,000 HDD	78.6	18.6	8.1	6.1	7.6	18.7	3.0	5.7	0.9	2.0	7.9
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	2.6	7.0
Number of Establishments											
One	92.3	34.6	6.4	6.0	8.0	17.5	3.1	6.4	0.9	1.9	7.4
2 to 5	92.4	36.6	6.6	5.9	6.0	19.5	2.1	4.4	1.1	2.1	8.1
6 to 10	112.6	40.1	9.4	7.5	5.7	26.6	2.5	3.3	1.2	5.3	11.1
11 to 20	91.1	24.3	11.0	7.5	5.1	24.3	2.0	3.3	1.0	2.4	10.2
More than 20	93.4	19.4	14.6	7.8	5.4	26.0	1.7	2.7	1.3	3.4	11.2
Currently Unoccupied	17.2	12.8	Q	0.1	(*)	1.2	Q	Q	Q	Q	2.3
Energy Sources (more than one may apply)											
Electricity	92.9	33.7	7.4	6.2	7.1	19.1	2.7	5.4	1.0	2.2	8.1
Natural Gas	104.0	38.7	7.3	6.9	9.0	20.4	3.8	5.3	1.0	2.4	9.2
Fuel Oil	114.8	42.0	8.7	8.0	12.5	23.9	2.2	2.9	1.5	3.2	9.8
District Heat	184.6	109.3	6.0	12.6	10.8	26.9	Q	2.2	0.8	5.3	8.9
Energy End Uses (more than one may apply)											
Buildings with Space Heating	95.9	35.6	7.3	6.4	7.4	19.5	2.8	5.4	1.0	2.3	8.1
Buildings with Cooling	96.7	33.7	8.1	6.6	7.5	20.2	2.9	5.8	1.1	2.4	8.4
Buildings with Water Heating	98.0	34.7	7.8	6.6	8.0	20.1	3.0	5.8	1.1	2.4	8.5

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