

Table C1. Total Energy Consumption by Major Fuel for Non-Mall Buildings, 2003

	All Buildings*		Total Energy Consumption (trillion Btu)					
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat
				Primary	Site			
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634
Building Floorspace (Square Feet)								
1,001 to 5,000	2,552	6,789	672	1,164	386	250	34	Q
5,001 to 10,000	889	6,585	516	790	262	209	36	Q
10,001 to 25,000	738	11,535	776	1,229	407	309	27	Q
25,001 to 50,000	241	8,668	673	1,058	350	258	16	Q
50,001 to 100,000	129	9,057	759	1,223	405	244	26	Q
100,001 to 200,000	65	9,064	934	1,458	483	249	37	165
200,001 to 500,000	25	7,176	725	1,090	361	205	36	123
Over 500,000	7	5,908	766	1,157	383	204	10	169
Principal Building Activity								
Education	386	9,874	820	1,121	371	268	47	134
Food Sales	226	1,255	251	629	208	39	Q	N
Food Service	297	1,654	427	654	217	203	Q	Q
Health Care	129	3,163	594	748	248	243	11	Q
Inpatient	8	1,905	475	539	178	204	9	Q
Outpatient	121	1,258	119	209	69	38	Q	Q
Lodging	142	5,096	510	709	235	215	35	Q
Retail (Other Than Mall).....	443	4,317	319	637	211	91	Q	Q
Office	824	12,208	1,134	2,170	719	269	18	128
Public Assembly	277	3,939	370	506	167	102	29	Q
Public Order and Safety	71	1,090	126	172	57	29	8	Q
Religious Worship	370	3,754	163	188	62	82	18	Q
Service	622	4,050	312	451	149	139	Q	Q
Warehouse and Storage	597	10,078	456	738	244	132	9	Q
Other	79	1,738	286	401	133	87	Q	Q
Vacant	182	2,567	54	46	15	28	Q	Q
Year Constructed								
Before 1920	330	3,769	302	271	90	143	38	Q
1920 to 1945	527	6,871	620	626	208	229	54	129
1946 to 1959	562	7,045	565	696	231	216	48	Q
1960 to 1969	579	8,101	737	989	327	255	Q	117
1970 to 1979	731	10,772	1,023	1,726	572	351	22	77
1980 to 1989	707	10,332	1,034	1,892	627	291	9	Q
1990 to 1999	876	12,360	1,098	2,082	690	314	9	Q
2000 to 2003	334	5,533	441	884	293	127	Q	Q
Census Region and Division								
Northeast	726	12,905	1,271	1,519	503	428	175	165
New England	233	2,964	294	326	108	75	69	Q
Middle Atlantic	493	9,941	978	1,192	395	353	106	Q
Midwest	1,266	17,080	1,690	2,224	737	705	24	225
East North Central	696	11,595	1,254	1,580	524	528	Q	192
West North Central	571	5,485	436	643	213	177	Q	Q
South	1,775	23,489	1,948	3,858	1,278	474	14	182
South Atlantic	874	12,258	1,064	2,166	717	217	13	117
East South Central	348	3,393	309	515	171	102	1	Q
West South Central	553	7,837	575	1,177	390	156	1	Q
West	878	11,310	911	1,568	519	320	9	Q
Mountain	299	3,675	381	576	191	167	Q	Q
Pacific	580	7,635	530	992	329	153	4	Q

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				Primary	Site			
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634
Climate Zone: 30-Year Average								
Under 2,000 CDD and --								
More than 7,000 HDD	855	10,622	990	1,232	408	431	63	88
5,500-7,000 HDD	1,173	17,335	1,761	2,305	763	679	63	255
4,000-5,499 HDD	673	11,504	1,134	1,713	567	337	90	140
Fewer than 4,000 HDD	1,276	15,739	1,213	2,259	748	358	6	101
2,000 CDD or More and --								
Fewer than 4,000 HDD	669	9,584	724	1,659	549	122	1	Q
Number of Floors								
One	3,136	25,981	1,937	3,442	1,140	664	47	Q
Two	1,031	16,270	1,311	2,080	689	491	69	Q
Three	339	7,501	619	863	286	241	39	Q
Four to Nine	128	10,085	1,336	1,796	595	378	55	308
Ten or More	12	4,947	617	987	327	154	13	123
Elevators and Escalators (more than one may apply)								
Any Elevators	309	24,617	2,826	4,289	1,421	830	84	491
Number of Elevators								
One	208	8,221	732	1,069	354	244	23	111
Two to Five	88	10,129	1,157	1,767	585	333	46	194
Six or More	13	6,268	937	1,453	481	254	16	186
Any Escalators	6	2,350	282	583	193	61	Q	Q
Number of Workers (main shift)								
Fewer than 5	2,653	15,492	817	1,122	372	272	69	Q
5 to 9	778	6,166	468	749	248	198	17	Q
10 to 19	563	7,803	594	915	303	242	33	Q
20 to 49	398	10,989	1,050	1,581	524	395	36	96
50 to 99	147	7,934	728	1,218	403	241	27	Q
100 to 249	77	6,871	838	1,388	460	235	19	124
250 or More	30	9,528	1,325	2,195	727	344	22	232
Weekly Operating Hours								
Fewer than 40	1,002	6,863	228	272	90	107	15	Q
40 to 48	1,117	11,622	773	1,199	397	249	58	Q
49 to 60	1,062	15,723	1,179	1,805	598	374	32	176
61 to 84	591	10,334	924	1,500	497	314	40	73
85 to 167	400	7,092	889	1,579	523	257	18	91
Open Continuously	475	13,149	1,827	2,813	932	626	59	210
Ownership and Occupancy								
Nongovernment Owned	4,011	49,421	4,203	6,944	2,300	1,503	154	247
Owner Occupied	1,841	23,591	2,060	3,280	1,086	708	81	185
Nonowner Occupied	2,029	23,914	2,115	3,639	1,205	779	72	Q
Unoccupied	141	1,916	Q	25	8	Q	Q	Q
Government Owned	635	15,363	1,617	2,224	737	425	69	387
Federal	46	1,956	303	395	131	35	Q	Q
State	164	3,808	513	616	204	98	23	188
Local	425	9,599	800	1,213	402	291	39	Q
Vacancy Status								
Completely Vacant	157	2,161	37	28	9	18	Q	Q
Mostly Vacant	25	406	Q	Q	Q	Q	Q	N
Partially Vacant	548	12,382	1,086	1,736	575	318	30	164
Not At All Vacant	3,915	49,834	4,681	7,386	2,446	1,582	191	461

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	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat
				Primary	Site			
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634
Number of Establishments								
One	3,754	45,144	4,167	6,454	2,138	1,462	183	384
2 to 5	643	10,960	992	1,517	502	307	28	156
6 to 10	55	1,958	216	348	115	48	Q	Q
11 to 20	23	1,951	152	295	98	34	Q	Q
More than 20	14	2,609	257	526	174	58	Q	Q
Currently Unoccupied	157	2,161	37	28	9	18	Q	Q
Predominant Exterior Wall Material								
Brick, Stone or Stucco	2,044	32,817	3,186	4,549	1,507	1,127	144	408
Concrete (Block or Poured)	786	10,832	974	1,599	530	351	24	Q
Concrete Panels	131	6,559	667	1,205	399	180	Q	Q
Siding or Shingles	779	4,120	276	452	150	85	41	Q
Metal Panels	825	7,912	463	897	297	130	8	Q
Window Glass	17	1,024	95	201	67	14	0	Q
Other	47	1,113	121	190	63	35	Q	Q
No One Major Type	18	406	Q	Q	Q	Q	Q	Q
Predominant Roof Material								
Built-Up	1,036	21,170	2,083	3,143	1,041	743	37	263
Shingles (Not Wood)	1,325	10,195	823	1,247	413	310	63	Q
Metal Surfacing	1,288	11,944	630	1,184	392	194	21	Q
Synthetic or Rubber	511	14,730	1,649	2,686	890	542	46	171
Slate or Tile	263	2,462	207	313	104	67	12	Q
Wooden Materials	122	887	68	111	37	21	Q	Q
Concrete	61	2,231	236	299	99	24	Q	Q
Other	16	598	Q	125	41	Q	Q	Q
No One Major Type	25	565	40	61	20	16	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)								
Any Type of Renovation								
Since 1980	1,018	17,844	1,766	2,356	780	684	105	197
Addition or Annex	256	6,551	733	951	315	304	Q	Q
Reduction In Floorspace	22	1,012	117	158	52	52	Q	Q
Cosmetic Improvements	741	13,119	1,317	1,812	600	497	77	143
Wall or Roof Replacement	370	8,070	777	1,046	347	278	54	99
Interior Wall								
Re-Configuration	411	8,518	911	1,212	401	342	44	124
HVAC Equipment Upgrade	442	10,768	1,156	1,591	527	467	34	128
Lighting Upgrade	455	10,275	1,085	1,442	478	397	53	157
Window Replacement	310	6,354	613	757	251	242	50	Q
Plumbing System Upgrade	315	7,144	748	947	314	287	45	103
Insulation Upgrade	227	4,015	381	526	174	132	21	Q
Other Renovation	19	523	50	49	16	26	Q	Q
No Renovations Since 1980	1,710	18,714	1,482	1,953	647	512	94	229
Building Newer than 1980	1,917	28,225	2,573	4,859	1,609	732	23	208

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	All Buildings*		Total Energy Consumption (trillion Btu)					
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat
				Primary	Site			
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634
Energy Sources (more than one may apply)								
Electricity	4,404	63,307	5,820	9,168	3,037	1,927	222	634
Natural Gas	2,391	43,468	4,492	6,524	2,161	1,928	99	305
Fuel Oil	451	15,157	1,760	2,578	854	507	222	177
District Heat	67	5,443	1,017	1,011	335	47	1	634
District Chilled Water	33	2,853	538	580	192	35	2	309
Propane	502	7,076	584	1,022	339	106	54	Q
Other	132	1,401	139	233	77	47	Q	Q
Space-Heating Energy Sources (more than one may apply)								
Electricity	1,766	28,600	2,373	4,696	1,555	667	29	122
Natural Gas	2,165	36,959	3,682	5,401	1,789	1,803	30	Q
Fuel Oil	360	5,988	591	588	195	176	212	Q
District Heat	65	5,198	994	967	320	39	1	633
Propane	372	3,204	160	362	120	Q	11	Q
Other	113	842	61	122	41	18	Q	N
Primary Space-Heating Energy Source								
Electricity	1,258	15,996	1,089	2,739	907	177	3	Q
Natural Gas	1,999	32,970	3,280	4,724	1,565	1,687	15	Q
Fuel Oil	282	3,818	294	232	77	20	197	N
District Heat	63	4,907	951	935	310	23	1	618
Propane	308	1,955	71	211	70	Q	Q	Q
Other	72	382	19	47	16	Q	Q	N
Cooling Energy Sources (more than one may apply)								
Electricity	3,589	54,321	5,021	8,386	2,778	1,762	174	307
Natural Gas	17	1,018	159	189	63	92	Q	Q
District Chilled Water	33	2,853	538	580	192	35	2	309
Water-Heating Energy Sources (more than one may apply)								
Electricity	1,910	27,490	2,145	4,146	1,373	522	84	167
Natural Gas	1,445	28,820	3,206	4,592	1,521	1,509	56	Q
Fuel Oil	94	1,880	206	176	58	36	109	Q
District Heat	27	3,088	563	603	200	33	Q	329
Propane	128	1,422	81	191	63	Q	Q	Q
Cooking Energy Sources (more than one may apply)								
Electricity	410	13,161	1,579	2,561	848	538	47	146
Natural Gas	457	15,438	2,074	2,970	984	856	76	158
Propane	108	1,460	114	240	80	Q	25	Q
Energy End Uses (more than one may apply)								
Buildings with Space Heating	3,982	60,028	5,705	8,887	2,944	1,909	219	634
Buildings with Cooling	3,625	56,940	5,464	8,855	2,933	1,821	176	535
Buildings with Water Heating	3,472	56,478	5,498	8,732	2,892	1,870	213	523
Buildings with Cooking	801	22,237	2,712	4,158	1,377	997	119	219
Buildings with Manufacturing	119	3,138	254	426	141	100	7	Q
Buildings with Electricity Generation	149	12,821	1,693	2,687	890	534	31	237

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				Primary	Site			
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634
Percent of Floorspace Heated								
Not Heated	663	4,756	115	281	93	Q	Q	Q
1 to 50	523	6,850	299	565	187	97	13	Q
51 to 99	498	8,107	746	1,193	395	268	26	57
100	2,962	45,071	4,660	7,129	2,361	1,544	180	575
Percent of Floorspace Cooled								
Not Cooled	1,020	7,843	356	312	104	107	46	Q
1 to 50	985	16,598	1,026	1,339	444	452	93	Q
51 to 99	629	13,211	1,413	2,252	746	451	45	171
100	2,011	27,132	3,026	5,265	1,744	918	38	326
Percent Lit When Open								
Zero	47	293	Q	Q	Q	Q	Q	Q
1 to 50	929	10,203	540	679	225	224	50	Q
51 to 99	1,108	18,288	1,736	2,698	894	576	67	199
100	2,176	32,789	3,490	5,740	1,901	1,100	104	385
Building Never Open/ Electricity Not Used	386	3,210	46	37	12	23	Q	Q
Percent Lit When Closed								
Zero	1,964	17,385	1,132	1,639	543	395	48	Q
1 to 50	1,882	30,948	2,626	4,248	1,407	868	107	244
51 to 100	136	2,093	235	468	155	40	Q	Q
Building Never Closed/ Electricity Not Used	664	14,357	1,827	2,813	932	626	60	210
Heating Equipment (more than one may apply)								
Heat Pumps	476	8,814	805	1,578	523	224	6	Q
Packaged Heat Pumps	278	5,442	523	1,085	359	140	3	Q
Split-System Heat Pumps	166	2,581	198	410	136	42	Q	Q
Individual Room Heat Pumps	58	2,691	255	448	148	84	Q	Q
Furnaces	1,864	19,615	1,493	2,298	761	673	50	Q
Individual Space Heaters	819	12,545	1,024	1,701	563	379	31	50
District Heat	65	5,166	986	958	317	39	1	628
Boilers	579	20,423	2,244	3,045	1,009	1,040	171	Q
Packaged Heating Units	953	18,021	1,729	3,195	1,058	582	17	Q
Other	205	3,262	231	508	168	47	5	Q
Cooling Equipment (more than one may apply)								
Residential-Type Central Air Conditioners	1,006	11,035	924	1,375	455	391	56	Q
Heat Pumps	492	9,041	837	1,652	547	234	6	Q
Packaged Heat Pumps	288	5,426	529	1,086	360	145	Q	Q
Split-System Heat Pumps	174	2,606	204	421	139	45	Q	Q
Individual Room Heat Pumps	58	2,940	278	518	171	85	Q	Q
Individual Air Conditioners	742	12,558	1,080	1,445	479	410	99	91
District Chilled Water	33	2,853	538	580	192	35	2	309
Central Chillers	111	11,636	1,531	2,524	836	501	26	169
Packaged Air Conditioning Units	1,613	29,969	2,862	4,765	1,578	1,090	85	110
Swamp Coolers	122	1,561	158	227	75	81	Q	Q
Other	40	1,232	142	225	75	52	Q	Q

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				Primary	Site			
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634
Main Equipment Replaced Since 1990 (more than one may apply)								
Heating	1,197	16,403	1,367	2,161	716	605	43	Q
Cooling	1,356	20,995	1,949	2,947	976	779	103	91
Water Heating Equipment								
Centralized System	2,513	34,671	3,432	5,310	1,759	1,226	161	286
Distributed System	785	11,540	835	1,458	483	254	31	Q
Combination of Centralized and Distributed System	175	10,267	1,231	1,964	651	390	20	170
Lighting Equipment Types (more than one may apply)								
Incandescent	2,184	38,528	3,916	6,057	2,006	1,351	161	398
Standard Fluorescent	3,943	59,688	5,644	8,909	2,951	1,865	214	614
Compact Fluorescent	941	27,571	3,208	5,027	1,665	1,025	98	419
High Intensity Discharge	455	20,643	2,141	3,400	1,126	693	52	270
Halogen	565	17,703	1,982	3,226	1,069	666	65	182
Other	8	269	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)^a								
Any Refrigeration.....	3,176	52,974	5,213	8,366	2,771	1,729	200	513
Commercial Refrigeration	1,007	26,768	3,336	5,397	1,788	1,124	126	299
Walk-In Units	666	20,254	2,766	4,496	1,489	939	95	243
Cases or Cabinets	825	20,424	2,703	4,349	1,441	910	95	257
Residential-Type Units	2,370	38,884	3,466	5,342	1,769	1,181	159	357
Vending Machines	996	35,335	3,721	5,992	1,985	1,163	105	468
No Refrigeration	1,469	11,809	607	802	266	198	23	Q
Office Equipment (more than one may apply)								
Computers	3,081	55,627	5,376	8,567	2,838	1,750	196	593
With Flat Screen Monitors	877	26,417	2,966	4,797	1,589	872	88	417
Dedicated Servers	1,175	36,338	3,760	6,143	2,035	1,190	105	431
Laser Printers	1,970	33,012	3,009	4,679	1,550	1,067	124	268
Inkjet Printers	1,420	32,210	3,302	5,495	1,820	1,041	74	368
FAX Machines	2,715	52,373	5,092	8,154	2,701	1,689	184	517
Photocopiers	1,939	46,257	4,466	7,128	2,361	1,429	155	521
Number of Computers								
None	1,565	9,156	444	601	199	178	27	Q
1 to 4	1,670	12,395	1,015	1,578	523	357	74	Q
5 to 9	559	7,179	546	826	274	249	15	Q
10 to 19	370	6,610	515	859	285	196	13	Q
20 to 49	255	7,414	707	1,233	408	232	15	Q
50 to 99	110	5,376	513	781	259	147	35	Q
100 to 249	79	6,690	714	1,111	368	208	17	121
250 or More	38	9,963	1,366	2,179	722	360	27	257
Number of Dedicated Servers								
None	3,471	28,445	2,060	3,025	1,002	738	118	203
1 to 4	1,060	24,116	2,234	3,520	1,166	809	74	184
5 to 9	58	3,864	405	756	250	112	14	Q
10 to 19	30	3,027	432	653	216	101	5	109
20 to 49	17	2,583	307	552	183	76	7	Q
50 or More	10	2,748	382	662	219	91	5	Q

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				Primary	Site			
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634
Number of Photocopiers								
None	2,706	18,526	1,355	2,040	676	498	68	Q
One	1,250	15,475	1,130	1,792	593	429	55	Q
2 to 4	549	15,082	1,334	2,132	706	451	41	137
5 to 9	85	5,515	612	976	323	191	35	Q
10 or More	54	10,185	1,389	2,229	738	359	25	268
Energy-Related Space Functions (more than one may apply)								
Commercial Food Preparation	799	22,223	2,711	4,155	1,376	996	119	219
Activities with Large Amounts of Hot Water	567	19,482	2,465	3,522	1,167	931	95	273
Separate Computer Area	553	26,873	2,895	4,678	1,550	875	96	374
HVAC Conservation Features (more than one may apply)								
Variable Air-Volume System	466	19,597	2,380	3,827	1,267	710	35	368
Economizer Cycle	508	21,108	2,589	4,251	1,408	805	42	334
HVAC Maintenance	2,581	51,163	5,170	8,161	2,703	1,659	196	612
Energy Management and Control System (EMCS)	252	15,630	1,782	2,881	954	477	31	320
Window and Interior Lighting Features (more than one may apply)								
Multipaned Windows	2,201	38,910	3,929	6,109	2,024	1,349	171	386
Tinted Window Glass	1,323	29,887	3,098	5,077	1,682	947	44	425
Reflective Window Glass	308	8,544	927	1,576	522	306	16	83
External Overhangs or Awnings	1,233	17,242	1,737	2,900	961	594	59	124
Skylights or Atriums	331	12,546	1,307	1,948	645	465	48	148
Daylighting Sensors	74	2,868	377	623	206	124	3	Q
Specular Reflectors	928	26,118	2,829	4,488	1,487	862	89	391
Electronic Ballasts	2,577	46,882	4,746	7,543	2,498	1,513	156	578
Energy Management and Control System (EMCS) For Lighting	60	4,781	538	939	311	133	6	Q
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)^a								
Heating	2,878	42,722	3,740	5,828	1,930	1,292	162	356
Cooling	2,761	43,205	3,844	6,132	2,031	1,288	135	390
Lighting	3,685	46,987	3,818	6,057	2,006	1,250	156	406
Office Equipment	1,504	19,397	1,465	2,177	721	476	92	Q

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Table C1. Total Energy Consumption by Major Fuel for Non-Mall Buildings, 2003

	All Buildings*		Total Energy Consumption (trillion Btu)					
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity		Natural Gas	Fuel Oil	District Heat
				Primary	Site			
All Buildings*	4,645	64,783	5,820	9,168	3,037	1,928	222	634

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>.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

^a The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use the particular energy source.

Notes: • Site electricity is the amount of electricity delivered to commercial buildings. Primary electricity, which is not included in the "Total of Major Fuels" category, is site electricity plus the conversion losses in the generation, transmission, and distribution processes. • Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. • HVAC = Heating, Ventilation, and Air Conditioning. • Due to rounding, data may not sum to totals.

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

Table C2. Total Energy Expenditures by Major Fuel for Non-Mall Buildings, 2003

	All Buildings*		Total Energy Expenditures (million dollars)				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	92,577	69,032	14,525	1,776	7,245
Building Floorspace (Square Feet)							
1,001 to 5,000	2,552	6,789	12,812	10,348	2,155	292	Q
5,001 to 10,000	889	6,585	9,398	7,296	1,689	307	Q
10,001 to 25,000	738	11,535	13,140	10,001	2,524	232	Q
25,001 to 50,000	241	8,668	10,392	7,871	1,865	127	Q
50,001 to 100,000	129	9,057	11,897	8,717	1,868	203	Q
100,001 to 200,000	65	9,064	13,391	9,500	1,737	272	Q
200,001 to 500,000	25	7,176	10,347	7,323	1,343	272	Q
Over 500,000	7	5,908	11,201	7,977	1,344	71	1,810
Principal Building Activity							
Education	386	9,874	12,008	8,111	1,889	362	Q
Food Sales	226	1,255	4,990	4,627	332	Q	N
Food Service	297	1,654	6,865	5,176	1,615	Q	Q
Health Care	129	3,163	7,440	4,882	1,538	79	Q
Inpatient	8	1,905	5,329	3,198	1,241	67	Q
Outpatient	121	1,258	2,111	1,684	297	Q	Q
Lodging	142	5,096	7,445	5,288	1,581	272	Q
Retail (Other Than Mall).....	443	4,317	5,980	5,132	719	117	Q
Office	824	12,208	20,841	17,050	2,201	149	1,441
Public Assembly	277	3,939	5,790	3,943	775	230	Q
Public Order and Safety	71	1,090	1,917	1,216	234	Q	Q
Religious Worship	370	3,754	2,457	1,628	664	Q	Q
Service	622	4,050	4,779	3,485	1,096	Q	Q
Warehouse and Storage	597	10,078	6,894	5,034	976	74	Q
Other	79	1,738	4,420	3,049	684	Q	Q
Vacant	182	2,567	751	412	220	Q	Q
Year Constructed							
Before 1920	330	3,769	4,131	2,319	1,134	304	Q
1920 to 1945	527	6,871	8,670	5,123	1,708	417	1,423
1946 to 1959	562	7,045	8,540	5,729	1,610	392	Q
1960 to 1969	579	8,101	11,378	7,714	1,872	Q	Q
1970 to 1979	731	10,772	16,129	12,637	2,466	182	Q
1980 to 1989	707	10,332	17,346	13,902	2,270	78	Q
1990 to 1999	876	12,360	18,761	15,236	2,452	72	Q
2000 to 2003	334	5,533	7,623	6,373	1,012	Q	Q
Census Region and Division							
Northeast	726	12,905	21,344	14,262	3,553	1,393	2,136
New England	233	2,964	4,851	3,125	673	557	Q
Middle Atlantic	493	9,941	16,493	11,137	2,880	836	Q
Midwest	1,266	17,080	21,521	14,172	4,844	176	2,329
East North Central	696	11,595	15,908	10,220	3,649	Q	Q
West North Central	571	5,485	5,613	3,952	1,195	Q	Q
South	1,775	23,489	31,595	25,540	3,866	125	Q
South Atlantic	874	12,258	17,563	14,155	1,934	112	Q
East South Central	348	3,393	4,569	3,348	817	Q	Q
West South Central	553	7,837	9,463	8,037	1,115	5	Q
West	878	11,310	18,118	15,057	2,261	81	Q
Mountain	299	3,675	5,629	4,272	1,089	Q	Q
Pacific	580	7,635	12,488	10,786	1,172	Q	Q

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Table C2. Total Energy Expenditures by Major Fuel for Non-Mall Buildings, 2003

	All Buildings*		Total Energy Expenditures (million dollars)				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	92,577	69,032	14,525	1,776	7,245
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	855	10,622	13,709	9,135	3,076	471	Q
5,500-7,000 HDD	1,173	17,335	24,455	16,298	4,901	530	Q
4,000-5,499 HDD	673	11,504	18,507	13,354	2,702	713	Q
Fewer than 4,000 HDD	1,276	15,739	22,372	18,211	2,920	54	Q
2,000 CDD or More and --							
Fewer than 4,000 HDD	669	9,584	13,534	12,034	925	8	Q
Number of Floors							
One	3,136	25,981	33,617	26,809	5,406	397	Q
Two	1,031	16,270	20,932	16,066	3,627	550	Q
Three	339	7,501	9,143	6,389	1,816	304	Q
Four to Nine	128	10,085	18,968	12,517	2,560	428	3,462
Ten or More	12	4,947	9,917	7,251	1,116	97	1,454
Elevators and Escalators (more than one may apply)							
Any Elevators	309	24,617	42,252	30,227	5,802	641	5,582
Number of Elevators							
One	208	8,221	10,967	7,712	1,713	172	Q
Two to Five	88	10,129	17,217	12,340	2,387	343	2,147
Six or More	13	6,268	14,068	10,175	1,702	125	2,066
Any Escalators	6	2,350	4,861	4,096	Q	Q	Q
Number of Workers (main shift)							
Fewer than 5	2,653	15,492	13,615	9,503	2,308	578	Q
5 to 9	778	6,166	8,265	6,390	1,666	151	Q
10 to 19	563	7,803	9,936	7,647	1,841	254	Q
20 to 49	398	10,989	16,406	11,966	2,951	274	Q
50 to 99	147	7,934	11,165	8,532	1,780	204	Q
100 to 249	77	6,871	12,970	9,768	1,652	146	Q
250 or More	30	9,528	20,222	15,224	2,327	169	2,502
Weekly Operating Hours							
Fewer than 40	1,002	6,863	3,695	2,489	892	133	Q
40 to 48	1,117	11,622	12,749	9,577	2,018	457	Q
49 to 60	1,062	15,723	19,461	14,232	2,928	260	2,041
61 to 84	591	10,334	15,040	11,559	2,373	309	Q
85 to 167	400	7,092	14,287	11,188	1,906	151	Q
Open Continuously	475	13,149	27,346	19,987	4,407	466	2,486
Ownership and Occupancy							
Nongovernment Owned	4,011	49,421	69,675	54,122	11,558	1,249	2,746
Owner Occupied	1,841	23,591	33,551	25,441	5,361	671	2,078
Nonowner Occupied	2,029	23,914	35,713	28,446	6,070	578	Q
Unoccupied	141	1,916	Q	Q	Q	Q	Q
Government Owned	635	15,363	22,902	14,910	2,967	526	4,499
Federal	46	1,956	3,964	2,159	226	Q	Q
State	164	3,808	7,090	3,973	748	170	Q
Local	425	9,599	11,849	8,777	1,993	299	Q
Vacancy Status							
Completely Vacant	157	2,161	516	258	142	Q	Q
Mostly Vacant	25	406	Q	Q	Q	Q	N
Partially Vacant	548	12,382	17,624	13,209	2,477	231	1,708
Not At All Vacant	3,915	49,834	74,203	55,411	11,828	1,536	5,427

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Table C2. Total Energy Expenditures by Major Fuel for Non-Mall Buildings, 2003

	All Buildings*		Total Energy Expenditures (million dollars)				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	92,577	69,032	14,525	1,776	7,245
Number of Establishments							
One	3,754	45,144	65,153	48,376	10,950	1,466	4,361
2 to 5	643	10,960	16,030	11,440	2,377	224	Q
6 to 10	55	1,958	3,402	2,632	366	Q	Q
11 to 20	23	1,951	2,718	2,268	248	Q	Q
More than 20	14	2,609	4,759	4,057	441	Q	Q
Currently Unoccupied	157	2,161	516	258	142	Q	Q
Predominant Exterior Wall Material							
Brick, Stone or Stucco	2,044	32,817	48,399	34,133	8,403	1,135	4,728
Concrete (Block or Poured)	786	10,832	16,015	12,417	2,622	206	Q
Concrete Panels	131	6,559	10,792	8,417	1,326	Q	Q
Siding or Shingles	779	4,120	5,071	4,007	735	323	Q
Metal Panels	825	7,912	8,196	6,726	1,059	77	Q
Window Glass	17	1,024	1,709	1,462	83	Q	Q
Other	47	1,113	1,801	1,416	248	Q	Q
No One Major Type	18	406	Q	Q	Q	Q	Q
Predominant Roof Material							
Built-Up	1,036	21,170	33,145	24,170	5,529	302	3,144
Shingles (Not Wood)	1,325	10,195	13,564	10,264	2,482	529	Q
Metal Surfacing	1,288	11,944	10,782	8,837	1,516	165	Q
Synthetic or Rubber	511	14,730	24,825	18,633	3,905	367	Q
Slate or Tile	263	2,462	3,794	2,816	562	94	Q
Wooden Materials	122	887	1,140	869	160	Q	Q
Concrete	61	2,231	3,373	2,029	168	Q	Q
Other	16	598	Q	845	Q	Q	Q
No One Major Type	25	565	719	568	124	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)							
Any Type of Renovation							
Since 1980	1,018	17,844	25,657	17,830	4,851	806	2,170
Addition or Annex	256	6,551	9,530	6,501	1,982	Q	Q
Reduction In Floorspace	22	1,012	1,710	1,180	390	Q	Q
Cosmetic Improvements	741	13,119	19,621	13,845	3,587	593	1,595
Wall or Roof Replacement	370	8,070	11,653	8,129	1,966	422	Q
Interior Wall							
Re-Configuration	411	8,518	13,131	9,035	2,430	352	1,315
HVAC Equipment Upgrade	442	10,768	16,899	11,822	3,281	277	1,520
Lighting Upgrade	455	10,275	15,732	10,741	2,868	417	1,706
Window Replacement	310	6,354	9,102	6,168	1,734	391	Q
Plumbing System Upgrade	315	7,144	10,965	7,360	2,051	343	1,211
Insulation Upgrade	227	4,015	5,868	4,065	978	170	Q
Other Renovation	19	523	791	517	Q	Q	Q
No Renovations Since 1980	1,710	18,714	23,191	15,691	3,939	778	Q
Building Newer than 1980	1,917	28,225	43,729	35,511	5,734	192	Q

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Table C2. Total Energy Expenditures by Major Fuel for Non-Mall Buildings, 2003

	All Buildings*		Total Energy Expenditures (million dollars)				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	92,577	69,032	14,525	1,776	7,245
Energy Sources (more than one may apply)							
Electricity	4,404	63,307	92,574	69,032	14,523	1,774	7,245
Natural Gas	2,391	43,468	67,462	48,584	14,525	775	3,578
Fuel Oil	451	15,157	25,905	18,631	3,539	1,776	1,960
District Heat	67	5,443	14,098	6,519	323	10	7,245
District Chilled Water	33	2,853	7,647	3,667	244	13	Q
Propane	502	7,076	9,424	7,234	751	410	Q
Other	132	1,401	2,032	1,539	330	26	Q
Space-Heating Energy Sources (more than one may apply)							
Electricity	1,766	28,600	41,737	34,865	5,056	236	Q
Natural Gas	2,165	36,959	54,959	40,545	13,515	243	Q
Fuel Oil	360	5,988	7,485	4,513	1,194	1,676	Q
District Heat	65	5,198	13,623	6,106	270	8	7,238
Propane	372	3,204	3,303	2,985	Q	84	Q
Other	113	842	956	796	138	Q	N
Primary Space-Heating Energy Source							
Electricity	1,258	15,996	22,011	20,527	1,434	29	Q
Natural Gas	1,999	32,970	48,198	35,355	12,586	132	Q
Fuel Oil	282	3,818	3,963	2,246	162	1,555	N
District Heat	63	4,907	13,178	5,910	172	8	7,089
Propane	308	1,955	1,928	1,909	Q	Q	Q
Other	72	382	338	306	Q	Q	N
Cooling Energy Sources (more than one may apply)							
Electricity	3,589	54,321	81,478	63,402	13,267	1,371	3,438
Natural Gas	17	1,018	2,005	1,291	672	Q	Q
District Chilled Water	33	2,853	7,647	3,667	244	13	Q
Water-Heating Energy Sources (more than one may apply)							
Electricity	1,910	27,490	36,908	30,298	4,084	666	1,859
Natural Gas	1,445	28,820	47,610	34,524	11,092	441	Q
Fuel Oil	94	1,880	2,700	1,598	220	849	Q
District Heat	27	3,088	8,155	4,241	218	Q	3,690
Propane	128	1,422	1,871	1,734	Q	Q	Q
Cooking Energy Sources (more than one may apply)							
Electricity	410	13,161	23,623	17,845	3,843	363	1,572
Natural Gas	457	15,438	29,444	20,873	6,157	587	1,827
Propane	108	1,460	2,508	2,203	Q	201	Q
Energy End Uses (more than one may apply)							
Buildings with Space Heating	3,982	60,028	89,615	66,253	14,377	1,744	7,242
Buildings with Cooling	3,625	56,940	87,739	66,555	13,718	1,387	6,079
Buildings with Water Heating	3,472	56,478	87,218	65,526	14,025	1,682	5,984
Buildings with Cooking	801	22,237	40,266	29,777	7,163	929	2,396
Buildings with Manufacturing	119	3,138	3,950	3,117	718	56	Q
Buildings with Electricity Generation	149	12,821	25,422	18,679	3,718	253	2,772

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Table C2. Total Energy Expenditures by Major Fuel for Non-Mall Buildings, 2003

	All Buildings*		Total Energy Expenditures (million dollars)				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	92,577	69,032	14,525	1,776	7,245
Percent of Floorspace Heated							
Not Heated	663	4,756	2,962	2,779	Q	Q	Q
1 to 50	523	6,850	5,600	4,645	831	109	Q
51 to 99	498	8,107	11,972	9,096	2,078	206	Q
100	2,962	45,071	72,043	52,512	11,468	1,428	6,635
Percent of Floorspace Cooled							
Not Cooled	1,020	7,843	4,838	2,476	807	389	Q
1 to 50	985	16,598	15,503	10,901	3,465	728	Q
51 to 99	629	13,211	22,446	16,916	3,341	355	1,833
100	2,011	27,132	49,791	38,738	6,912	304	Q
Percent Lit When Open							
Zero	47	293	Q	Q	Q	Q	Q
1 to 50	929	10,203	8,599	5,942	1,768	407	Q
51 to 99	1,108	18,288	28,253	20,893	4,324	539	2,498
100	2,176	32,789	54,958	41,762	8,222	820	4,154
Building Never Open/ Electricity Not Used	386	3,210	635	325	191	Q	Q
Percent Lit When Closed							
Zero	1,964	17,385	18,308	13,104	3,185	418	Q
1 to 50	1,882	30,948	43,011	32,796	6,620	831	2,764
51 to 100	136	2,093	3,910	3,144	311	Q	Q
Building Never Closed/ Electricity Not Used	664	14,357	27,349	19,987	4,409	468	2,486
Heating Equipment (more than one may apply)							
Heat Pumps	476	8,814	14,249	11,629	1,804	50	Q
Packaged Heat Pumps	278	5,442	9,330	7,929	1,115	Q	Q
Split-System Heat Pumps	166	2,581	3,696	2,946	361	Q	Q
Individual Room Heat Pumps	58	2,691	4,199	3,289	648	Q	Q
Furnaces	1,864	19,615	23,489	17,887	5,095	417	Q
Individual Space Heaters	819	12,545	15,964	12,387	2,720	253	Q
District Heat	65	5,166	13,505	6,051	269	8	7,177
Boilers	579	20,423	31,052	22,045	7,418	1,337	Q
Packaged Heating Units	953	18,021	29,902	24,318	4,477	139	Q
Other	205	3,262	3,988	3,451	368	46	Q
Cooling Equipment (more than one may apply)							
Residential-Type Central							
Air Conditioners	1,006	11,035	14,441	10,746	2,867	428	Q
Heat Pumps	492	9,041	14,738	12,060	1,887	49	Q
Packaged Heat Pumps	288	5,426	9,356	7,909	1,163	Q	Q
Split-System Heat Pumps	174	2,606	3,776	3,005	382	Q	Q
Individual Room Heat Pumps	58	2,940	4,621	3,721	660	Q	Q
Individual Air Conditioners	742	12,558	16,175	11,268	3,040	790	1,077
District Chilled Water	33	2,853	7,647	3,667	244	13	Q
Central Chillers	111	11,636	22,448	17,065	3,461	205	1,717
Packaged Air Conditioning							
Units	1,613	29,969	46,331	36,258	8,210	654	1,208
Swamp Coolers	122	1,561	2,350	1,808	520	Q	Q
Other	40	1,232	2,096	1,540	377	Q	Q

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Table C2. Total Energy Expenditures by Major Fuel for Non-Mall Buildings, 2003

	All Buildings*		Total Energy Expenditures (million dollars)				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	92,577	69,032	14,525	1,776	7,245
Main Equipment Replaced Since 1990 (more than one may apply)							
Heating	1,197	16,403	21,542	16,626	4,519	349	Q
Cooling	1,356	20,995	30,387	22,737	5,761	794	Q
Water Heating Equipment							
Centralized System	2,513	34,671	54,768	40,871	9,346	1,286	3,266
Distributed System	785	11,540	14,394	11,253	1,989	244	Q
Combination of Centralized and Distributed System	175	10,267	18,056	13,401	2,691	153	1,811
Lighting Equipment Types (more than one may apply)							
Incandescent	2,184	38,528	60,359	44,422	9,937	1,297	4,703
Standard Fluorescent	3,943	59,688	89,627	66,864	14,039	1,707	7,016
Compact Fluorescent	941	27,571	49,570	36,584	7,428	774	4,784
High Intensity Discharge	455	20,643	31,999	23,651	4,907	404	3,037
Halogen	565	17,703	30,218	23,011	4,680	506	2,021
Other	8	269	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)^a							
Any Refrigeration.....	3,176	52,974	82,557	62,357	12,913	1,575	5,713
Commercial Refrigeration	1,007	26,768	50,937	38,581	8,073	961	3,322
Walk-In Units	666	20,254	41,811	31,769	6,648	726	2,668
Cases or Cabinets	825	20,424	41,463	31,335	6,571	732	2,825
Residential-Type Units	2,370	38,884	54,108	39,936	8,848	1,259	4,065
Vending Machines	996	35,335	56,290	42,043	8,276	811	5,159
No Refrigeration	1,469	11,809	10,020	6,675	1,612	200	Q
Office Equipment (more than one may apply)							
Computers	3,081	55,627	85,407	64,010	13,089	1,544	6,764
With Flat Screen Monitors	877	26,417	46,704	34,985	6,287	688	4,743
Dedicated Servers	1,175	36,338	59,377	44,941	8,657	809	4,969
Laser Printers	1,970	33,012	47,880	36,031	7,946	999	2,904
Inkjet Printers	1,420	32,210	52,520	39,920	7,784	582	4,234
FAX Machines	2,715	52,373	80,902	60,928	12,641	1,440	5,892
Photocopiers	1,939	46,257	70,079	52,409	10,542	1,198	5,930
Number of Computers							
None	1,565	9,156	7,170	5,021	1,436	232	Q
1 to 4	1,670	12,395	17,257	12,918	3,015	602	Q
5 to 9	559	7,179	8,649	6,606	1,844	130	Q
10 to 19	370	6,610	8,588	6,741	1,492	99	Q
20 to 49	255	7,414	11,778	9,322	1,765	121	Q
50 to 99	110	5,376	7,888	5,664	1,124	259	Q
100 to 249	79	6,690	10,790	7,675	1,472	126	Q
250 or More	38	9,963	20,456	15,085	2,377	207	2,787
Number of Dedicated Servers							
None	3,471	28,445	33,201	24,090	5,867	967	Q
1 to 4	1,060	24,116	34,991	26,074	6,056	578	Q
5 to 9	58	3,864	6,784	5,608	796	100	Q
10 to 19	30	3,027	6,267	4,457	665	38	Q
20 to 49	17	2,583	4,740	3,685	518	52	Q
50 or More	10	2,748	6,594	5,118	623	40	Q

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Table C2. Total Energy Expenditures by Major Fuel for Non-Mall Buildings, 2003

	All Buildings*		Total Energy Expenditures (million dollars)				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	92,577	69,032	14,525	1,776	7,245
Number of Photocopiers							
None	2,706	18,526	22,498	16,622	3,983	578	Q
One	1,250	15,475	18,436	14,098	3,295	428	Q
2 to 4	549	15,082	20,980	15,555	3,518	315	Q
5 to 9	85	5,515	9,441	7,138	1,290	268	Q
10 or More	54	10,185	21,223	15,618	2,439	187	2,979
Energy-Related Space Functions (more than one may apply)							
Commercial Food Preparation	799	22,223	40,252	29,771	7,156	929	2,396
Activities with Large Amounts of Hot Water	567	19,482	34,904	24,710	6,466	724	3,003
Separate Computer Area	553	26,873	44,552	33,308	6,230	732	4,282
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	466	19,597	36,254	26,726	5,070	273	4,184
Economizer Cycle	508	21,108	39,593	29,663	5,703	331	3,896
HVAC Maintenance	2,581	51,163	81,328	60,420	12,356	1,565	6,987
Energy Management and Control System (EMCS)	252	15,630	27,646	20,451	3,318	241	3,636
Window and Interior Lighting Features (more than one may apply)							
Multipaned Windows	2,201	38,910	59,356	43,784	10,027	1,331	4,214
Tinted Window Glass	1,323	29,887	49,568	37,166	6,978	359	5,064
Reflective Window Glass	308	8,544	14,414	11,302	2,145	132	835
External Overhangs or Awnings	1,233	17,242	28,248	21,798	4,583	463	1,404
Skylights or Atriums	331	12,546	19,284	14,007	3,210	369	1,697
Daylighting Sensors	74	2,868	6,261	4,847	917	26	Q
Specular Reflectors	928	26,118	43,466	32,092	6,179	684	4,511
Electronic Ballasts	2,577	46,882	74,873	55,837	11,181	1,236	6,619
Energy Management and Control System (EMCS) For Lighting	60	4,781	8,967	6,922	906	47	Q
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)^a							
Heating	2,878	42,722	60,293	45,100	9,840	1,305	4,048
Cooling	2,761	43,205	62,872	47,552	9,785	1,074	4,461
Lighting	3,685	46,987	62,313	46,811	9,710	1,257	4,534
Office Equipment	1,504	19,397	23,915	17,466	3,666	714	Q

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Table C2. Total Energy Expenditures by Major Fuel for Non-Mall Buildings, 2003

	All Buildings*		Total Energy Expenditures (million dollars)				
	Number of Buildings (thousand)	Floorspace (million square feet)	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	4,645	64,783	92,577	69,032	14,525	1,776	7,245

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>.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

^a The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample that use the particular energy source.

Notes: • Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. • HVAC = Heating, Ventilation, and Air Conditioning. • Due to rounding, data may not sum to totals. Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C3. Consumption and Gross Energy Intensity for Sum of Major Fuels for Non-Mall Buildings, 2003

	All Buildings*			Sum of Major Fuel Consumption			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)
All Buildings*	4,645	64,783	13.9	5,820	1,253	89.8	79.9
Building Floorspace (Square Feet)							
1,001 to 5,000	2,552	6,789	2.7	672	263	98.9	67.6
5,001 to 10,000	889	6,585	7.4	516	580	78.3	68.7
10,001 to 25,000	738	11,535	15.6	776	1,052	67.3	72.0
25,001 to 50,000	241	8,668	35.9	673	2,790	77.6	75.8
50,001 to 100,000	129	9,057	70.4	759	5,901	83.8	90.0
100,001 to 200,000	65	9,064	138.8	934	14,300	103.0	80.3
200,001 to 500,000	25	7,176	289.0	725	29,189	101.0	105.3
Over 500,000	7	5,908	896.1	766	116,216	129.7	87.6
Principal Building Activity							
Education	386	9,874	25.6	820	2,125	83.1	65.7
Food Sales	226	1,255	5.6	251	1,110	199.7	175.2
Food Service	297	1,654	5.6	427	1,436	258.3	136.5
Health Care	129	3,163	24.6	594	4,612	187.7	94.0
Inpatient	8	1,905	241.4	475	60,152	249.2	127.7
Outpatient	121	1,258	10.4	119	985	94.6	45.8
Lodging	142	5,096	35.8	510	3,578	100.0	207.5
Retail (Other Than Mall).....	443	4,317	9.7	319	720	73.9	92.1
Office	824	12,208	14.8	1,134	1,376	92.9	40.3
Public Assembly	277	3,939	14.2	370	1,338	93.9	154.5
Public Order and Safety	71	1,090	15.5	126	1,791	115.8	93.7
Religious Worship	370	3,754	10.1	163	440	43.5	95.6
Service	622	4,050	6.5	312	501	77.0	85.0
Warehouse and Storage	597	10,078	16.9	456	764	45.2	104.3
Other	79	1,738	21.9	286	3,600	164.4	157.1
Vacant	182	2,567	14.1	54	294	20.9	832.1
Year Constructed							
Before 1920	330	3,769	11.4	302	917	80.2	99.3
1920 to 1945	527	6,871	13.0	620	1,176	90.3	101.3
1946 to 1959	562	7,045	12.5	565	1,007	80.3	85.1
1960 to 1969	579	8,101	14.0	737	1,272	90.9	84.6
1970 to 1979	731	10,772	14.7	1,023	1,400	95.0	81.2
1980 to 1989	707	10,332	14.6	1,034	1,463	100.1	68.8
1990 to 1999	876	12,360	14.1	1,098	1,253	88.8	67.8
2000 to 2003	334	5,533	16.6	441	1,319	79.7	98.5
Census Region and Division							
Northeast	726	12,905	17.8	1,271	1,751	98.5	85.3
New England	233	2,964	12.7	294	1,262	99.0	93.0
Middle Atlantic	493	9,941	20.1	978	1,981	98.3	83.2
Midwest	1,266	17,080	13.5	1,690	1,334	98.9	103.2
East North Central	696	11,595	16.7	1,254	1,802	108.1	109.1
West North Central	571	5,485	9.6	436	764	79.5	89.3
South	1,775	23,489	13.2	1,948	1,098	82.9	72.0
South Atlantic	874	12,258	14.0	1,064	1,218	86.8	63.5
East South Central	348	3,393	9.8	309	889	91.1	101.0
West South Central	553	7,837	14.2	575	1,039	73.4	79.2
West	878	11,310	12.9	911	1,037	80.6	63.1
Mountain	299	3,675	12.3	381	1,278	103.8	89.1
Pacific	580	7,635	13.2	530	913	69.4	52.1

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Table C3. Consumption and Gross Energy Intensity for Sum of Major Fuels for Non-Mall Buildings, 2003

	All Buildings*			Sum of Major Fuel Consumption			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)
All Buildings*	4,645	64,783	13.9	5,820	1,253	89.8	79.9
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	855	10,622	12.4	990	1,157	93.2	96.1
5,500-7,000 HDD	1,173	17,335	14.8	1,761	1,501	101.6	101.5
4,000-5,499 HDD	673	11,504	17.1	1,134	1,685	98.5	80.9
Fewer than 4,000 HDD	1,276	15,739	12.3	1,213	950	77.0	70.6
2,000 CDD or More and --							
Fewer than 4,000 HDD	669	9,584	14.3	724	1,082	75.5	51.8
Number of Floors							
One	3,136	25,981	8.3	1,937	618	74.6	81.7
Two	1,031	16,270	15.8	1,311	1,272	80.6	81.1
Three	339	7,501	22.1	619	1,825	82.6	77.8
Four to Nine	128	10,085	78.7	1,336	10,423	132.5	84.0
Ten or More	12	4,947	420.0	617	52,356	124.6	68.1
Elevators and Escalators (more than one may apply)							
Any Elevators	309	24,617	79.7	2,826	9,146	114.8	77.3
Number of Elevators							
One	208	8,221	39.5	732	3,514	89.0	80.6
Two to Five	88	10,129	115.1	1,157	13,156	114.3	72.8
Six or More	13	6,268	491.5	937	73,451	149.5	80.8
Any Escalators	6	2,350	388.7	282	46,640	120.0	69.6
Number of Workers (main shift)							
Fewer than 5	2,653	15,492	5.8	817	308	52.8	176.4
5 to 9	778	6,166	7.9	468	602	76.0	92.2
10 to 19	563	7,803	13.9	594	1,056	76.2	81.4
20 to 49	398	10,989	27.6	1,050	2,640	95.6	89.1
50 to 99	147	7,934	53.8	728	4,935	91.7	76.2
100 to 249	77	6,871	89.7	838	10,936	121.9	75.5
250 or More	30	9,528	320.4	1,325	44,551	139.0	56.7
Weekly Operating Hours							
Fewer than 40	1,002	6,863	6.9	228	227	33.2	69.1
40 to 48	1,117	11,622	10.4	773	693	66.5	56.2
49 to 60	1,062	15,723	14.8	1,179	1,111	75.0	61.6
61 to 84	591	10,334	17.5	924	1,563	89.4	79.5
85 to 167	400	7,092	17.7	889	2,226	125.4	84.9
Open Continuously	475	13,149	27.7	1,827	3,846	138.9	126.0
Ownership and Occupancy							
Nongovernment Owned	4,011	49,421	12.3	4,203	1,048	85.1	78.8
Owner Occupied	1,841	23,591	12.8	2,060	1,119	87.3	76.0
Nonowner Occupied	2,029	23,914	11.8	2,115	1,042	88.4	80.6
Unoccupied	141	1,916	13.6	Q	Q	Q	.
Government Owned	635	15,363	24.2	1,617	2,548	105.3	83.1
Federal	46	1,956	42.9	303	6,642	155.0	124.6
State	164	3,808	23.2	513	3,125	134.8	71.3
Local	425	9,599	22.6	800	1,885	83.4	81.4
Vacancy Status							
Completely Vacant	157	2,161	13.8	37	237	17.2	.
Mostly Vacant	25	406	16.1	Q	Q	Q	254.5
Partially Vacant	548	12,382	22.6	1,086	1,981	87.7	63.9
Not At All Vacant	3,915	49,834	12.7	4,681	1,196	93.9	84.0

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Table C3. Consumption and Gross Energy Intensity for Sum of Major Fuels for Non-Mall Buildings, 2003

	All Buildings*			Sum of Major Fuel Consumption			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)
All Buildings*	4,645	64,783	13.9	5,820	1,253	89.8	79.9
Number of Establishments							
One	3,754	45,144	12.0	4,167	1,110	92.3	94.5
2 to 5	643	10,960	17.1	992	1,544	90.6	76.3
6 to 10	55	1,958	35.7	216	3,933	110.1	33.3
11 to 20	23	1,951	85.7	152	6,655	77.6	45.3
More than 20	14	2,609	181.1	257	17,833	98.5	43.3
Currently Unoccupied	157	2,161	13.8	37	237	17.2	.
Predominant Exterior Wall Material							
Brick, Stone or Stucco	2,044	32,817	16.1	3,186	1,559	97.1	86.6
Concrete (Block or Poured)	786	10,832	13.8	974	1,239	89.9	93.1
Concrete Panels	131	6,559	50.2	667	5,111	101.7	61.3
Siding or Shingles	779	4,120	5.3	276	355	67.1	60.5
Metal Panels	825	7,912	9.6	463	561	58.5	74.3
Window Glass	17	1,024	60.1	95	5,548	92.3	49.5
Other	47	1,113	23.8	121	2,591	108.7	78.5
No One Major Type	18	406	22.9	Q	Q	Q	88.5
Predominant Roof Material							
Built-Up	1,036	21,170	20.4	2,083	2,011	98.4	80.7
Shingles (Not Wood)	1,325	10,195	7.7	823	621	80.7	78.6
Metal Surfacing	1,288	11,944	9.3	630	489	52.7	74.4
Synthetic or Rubber	511	14,730	28.8	1,649	3,228	112.0	79.3
Slate or Tile	263	2,462	9.4	207	789	84.2	68.6
Wooden Materials	122	887	7.3	68	562	77.0	70.2
Concrete	61	2,231	36.7	236	3,886	Q	120.6
Other	16	598	38.1	Q	Q	Q	Q
No One Major Type	25	565	22.7	40	1,589	69.9	59.0
Renovations in Buildings Constructed Before 1980 (more than one may apply)							
Any Type of Renovation							
Since 1980	1,018	17,844	17.5	1,766	1,734	99.0	86.2
Addition or Annex	256	6,551	25.6	733	2,860	111.9	109.9
Reduction In Floorspace	22	1,012	46.1	117	5,306	115.2	108.2
Cosmetic Improvements	741	13,119	17.7	1,317	1,778	100.4	82.9
Wall or Roof Replacement	370	8,070	21.8	777	2,100	96.3	76.8
Interior Wall							
Re-Configuration	411	8,518	20.7	911	2,218	107.0	81.4
HVAC Equipment Upgrade	442	10,768	24.4	1,156	2,619	107.4	83.5
Lighting Upgrade	455	10,275	22.6	1,085	2,388	105.6	87.2
Window Replacement	310	6,354	20.5	613	1,974	96.5	82.1
Plumbing System Upgrade	315	7,144	22.7	748	2,376	104.7	85.4
Insulation Upgrade	227	4,015	17.7	381	1,676	94.8	75.8
Other Renovation	19	523	27.3	50	2,587	94.9	104.1
No Renovations Since 1980	1,710	18,714	10.9	1,482	866	79.2	89.1
Building Newer than 1980	1,917	28,225	14.7	2,573	1,342	91.1	72.1

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Table C3. Consumption and Gross Energy Intensity for Sum of Major Fuels for Non-Mall Buildings, 2003

	All Buildings*			Sum of Major Fuel Consumption			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)
All Buildings*	4,645	64,783	13.9	5,820	1,253	89.8	79.9
Energy Sources (more than one may apply)							
Electricity	4,404	63,307	14.4	5,820	1,322	91.9	80.0
Natural Gas	2,391	43,468	18.2	4,492	1,878	103.3	86.5
Fuel Oil	451	15,157	33.6	1,760	3,906	116.1	89.7
District Heat	67	5,443	81.4	1,017	15,203	186.8	99.8
District Chilled Water	33	2,853	86.7	538	16,353	188.7	74.9
Propane	502	7,076	14.1	584	1,164	82.6	99.8
Other	132	1,401	10.6	139	1,050	99.2	73.8
Space-Heating Energy Sources (more than one may apply)							
Electricity	1,766	28,600	16.2	2,373	1,344	83.0	70.0
Natural Gas	2,165	36,959	17.1	3,682	1,700	99.6	89.9
Fuel Oil	360	5,988	16.6	591	1,641	98.6	109.7
District Heat	65	5,198	79.7	994	15,241	191.2	100.0
Propane	372	3,204	8.6	160	430	49.9	53.3
Other	113	842	7.4	61	541	72.6	70.7
Primary Space-Heating Energy Source							
Electricity	1,258	15,996	12.7	1,089	865	68.1	56.1
Natural Gas	1,999	32,970	16.5	3,280	1,641	99.5	89.2
Fuel Oil	282	3,818	13.5	294	1,044	77.1	110.3
District Heat	63	4,907	77.4	951	15,010	193.8	97.8
Propane	308	1,955	6.4	71	232	36.6	37.3
Other	72	382	5.3	19	270	50.6	64.3
Cooling Energy Sources (more than one may apply)							
Electricity	3,589	54,321	15.1	5,021	1,399	92.4	79.4
Natural Gas	17	1,018	58.9	159	9,202	156.3	118.6
District Chilled Water	33	2,853	86.7	538	16,353	188.7	74.9
Water-Heating Energy Sources (more than one may apply)							
Electricity	1,910	27,490	14.4	2,145	1,123	78.0	65.7
Natural Gas	1,445	28,820	19.9	3,206	2,218	111.2	89.7
Fuel Oil	94	1,880	19.9	206	2,186	109.7	101.2
District Heat	27	3,088	113.1	563	20,610	182.3	134.2
Propane	128	1,422	11.1	81	628	56.7	52.8
Cooking Energy Sources (more than one may apply)							
Electricity	410	13,161	32.1	1,579	3,851	120.0	98.5
Natural Gas	457	15,438	33.8	2,074	4,542	134.3	109.1
Propane	108	1,460	13.6	114	1,064	78.3	61.3
Energy End Uses (more than one may apply)							
Buildings with Space Heating	3,982	60,028	15.1	5,705	1,433	95.0	80.6
Buildings with Cooling	3,625	56,940	15.7	5,464	1,507	96.0	77.9
Buildings with Water Heating	3,472	56,478	16.3	5,498	1,583	97.4	79.4
Buildings with Cooking	801	22,237	27.8	2,712	3,386	122.0	99.6
Buildings with Manufacturing	119	3,138	26.5	254	2,144	81.1	88.3
Buildings with Electricity Generation	149	12,821	85.9	1,693	11,347	132.1	87.8

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Table C3. Consumption and Gross Energy Intensity for Sum of Major Fuels for Non-Mall Buildings, 2003

	All Buildings*			Sum of Major Fuel Consumption			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)
All Buildings*	4,645	64,783	13.9	5,820	1,253	89.8	79.9
Percent of Floorspace Heated							
Not Heated	663	4,756	7.2	115	173	24.2	56.7
1 to 50	523	6,850	13.1	299	571	43.6	72.2
51 to 99	498	8,107	16.3	746	1,500	92.1	77.6
100	2,962	45,071	15.2	4,660	1,573	103.4	81.7
Percent of Floorspace Cooled							
Not Cooled	1,020	7,843	7.7	356	349	45.4	134.1
1 to 50	985	16,598	16.8	1,026	1,042	61.8	92.5
51 to 99	629	13,211	21.0	1,413	2,246	106.9	85.6
100	2,011	27,132	13.5	3,026	1,504	111.5	71.1
Percent Lit When Open							
Zero	47	293	6.3	Q	Q	Q	Q
1 to 50	929	10,203	11.0	540	581	52.9	122.4
51 to 99	1,108	18,288	16.5	1,736	1,567	94.9	65.2
100	2,176	32,789	15.1	3,490	1,603	106.4	84.0
Building Never Open/ Electricity Not Used	386	3,210	8.3	46	120	14.4	415.9
Percent Lit When Closed							
Zero	1,964	17,385	8.9	1,132	577	65.1	62.6
1 to 50	1,882	30,948	16.4	2,626	1,396	84.9	70.3
51 to 100	136	2,093	15.4	235	1,725	112.3	84.7
Building Never Closed/ Electricity Not Used	664	14,357	21.6	1,827	2,752	127.2	125.2
Heating Equipment (more than one may apply)							
Heat Pumps	476	8,814	18.5	805	1,692	91.3	74.8
Packaged Heat Pumps	278	5,442	19.6	523	1,880	96.0	70.0
Split-System Heat Pumps	166	2,581	15.5	198	1,191	76.8	71.6
Individual Room Heat Pumps	58	2,691	46.5	255	4,405	94.7	85.5
Furnaces	1,864	19,615	10.5	1,493	801	76.1	80.2
Individual Space Heaters	819	12,545	15.3	1,024	1,250	81.6	79.5
District Heat	65	5,166	79.7	986	15,202	190.8	100.2
Boilers	579	20,423	35.3	2,244	3,877	109.9	95.6
Packaged Heating Units	953	18,021	18.9	1,729	1,814	95.9	76.5
Other	205	3,262	15.9	231	1,127	70.7	66.4
Cooling Equipment (more than one may apply)							
Residential-Type Central							
Air Conditioners	1,006	11,035	11.0	924	918	83.7	80.8
Heat Pumps	492	9,041	18.4	837	1,700	92.6	76.4
Packaged Heat Pumps	288	5,426	18.9	529	1,838	97.4	70.6
Split-System Heat Pumps	174	2,606	15.0	204	1,176	78.4	73.9
Individual Room Heat Pumps	58	2,940	50.7	278	4,788	94.4	85.1
Individual Air Conditioners	742	12,558	16.9	1,080	1,455	86.0	94.1
District Chilled Water	33	2,853	86.7	538	16,353	188.7	74.9
Central Chillers	111	11,636	105.1	1,531	13,824	131.6	87.3
Packaged Air Conditioning							
Units	1,613	29,969	18.6	2,862	1,775	95.5	79.9
Swamp Coolers	122	1,561	12.8	158	1,296	101.1	95.3
Other	40	1,232	31.1	142	3,583	115.1	84.3

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Table C3. Consumption and Gross Energy Intensity for Sum of Major Fuels for Non-Mall Buildings, 2003

	All Buildings*			Sum of Major Fuel Consumption			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)
All Buildings*	4,645	64,783	13.9	5,820	1,253	89.8	79.9
Main Equipment Replaced Since 1990 (more than one may apply)							
Heating	1,197	16,403	13.7	1,367	1,143	83.4	80.5
Cooling	1,356	20,995	15.5	1,949	1,437	92.8	79.4
Water Heating Equipment							
Centralized System	2,513	34,671	13.8	3,432	1,366	99.0	85.9
Distributed System	785	11,540	14.7	835	1,064	72.4	70.5
Combination of Centralized and Distributed System	175	10,267	58.8	1,231	7,051	119.9	70.6
Lighting Equipment Types (more than one may apply)							
Incandescent	2,184	38,528	17.6	3,916	1,793	101.6	80.2
Standard Fluorescent	3,943	59,688	15.1	5,644	1,431	94.6	79.6
Compact Fluorescent	941	27,571	29.3	3,208	3,409	116.4	87.7
High Intensity Discharge	455	20,643	45.4	2,141	4,706	103.7	82.1
Halogen	565	17,703	31.3	1,982	3,505	111.9	86.6
Other	8	269	31.7	Q	Q	Q	90.9
Refrigeration Equipment (more than one may apply)^a							
Any Refrigeration.....	3,176	52,974	16.7	5,213	1,641	98.4	79.5
Commercial Refrigeration	1,007	26,768	26.6	3,336	3,314	124.6	103.3
Walk-In Units	666	20,254	30.4	2,766	4,152	136.6	109.4
Cases or Cabinets	825	20,424	24.8	2,703	3,278	132.3	106.3
Residential-Type Units	2,370	38,884	16.4	3,466	1,463	89.1	72.5
Vending Machines	996	35,335	35.5	3,721	3,735	105.3	81.1
No Refrigeration	1,469	11,809	8.0	607	413	51.4	83.8
Office Equipment (more than one may apply)							
Computers	3,081	55,627	18.1	5,376	1,745	96.6	77.9
With Flat Screen Monitors	877	26,417	30.1	2,966	3,383	112.3	70.3
Dedicated Servers	1,175	36,338	30.9	3,760	3,201	103.5	71.6
Laser Printers	1,970	33,012	16.8	3,009	1,528	91.2	75.1
Inkjet Printers	1,420	32,210	22.7	3,302	2,325	102.5	75.2
FAX Machines	2,715	52,373	19.3	5,092	1,876	97.2	76.0
Photocopiers	1,939	46,257	23.9	4,466	2,303	96.5	72.8
Number of Computers							
None	1,565	9,156	5.9	444	284	48.5	118.2
1 to 4	1,670	12,395	7.4	1,015	608	81.9	116.9
5 to 9	559	7,179	12.8	546	976	76.0	90.8
10 to 19	370	6,610	17.9	515	1,393	77.9	75.2
20 to 49	255	7,414	29.1	707	2,777	95.3	75.3
50 to 99	110	5,376	48.9	513	4,662	95.4	73.9
100 to 249	79	6,690	84.3	714	8,992	106.7	80.5
250 or More	38	9,963	264.3	1,366	36,244	137.1	61.2
Number of Dedicated Servers							
None	3,471	28,445	8.2	2,060	594	72.4	101.5
1 to 4	1,060	24,116	22.8	2,234	2,108	92.6	83.6
5 to 9	58	3,864	67.0	405	7,027	104.9	67.0
10 to 19	30	3,027	100.1	432	14,284	142.7	50.2
20 to 49	17	2,583	150.0	307	17,825	118.9	64.1
50 or More	10	2,748	276.6	382	38,458	139.0	60.2

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Table C3. Consumption and Gross Energy Intensity for Sum of Major Fuels for Non-Mall Buildings, 2003

	All Buildings*			Sum of Major Fuel Consumption			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)
All Buildings*	4,645	64,783	13.9	5,820	1,253	89.8	79.9
Number of Photocopiers							
None	2,706	18,526	6.8	1,355	501	73.1	118.1
One	1,250	15,475	12.4	1,130	904	73.0	90.0
2 to 4	549	15,082	27.5	1,334	2,430	88.5	77.2
5 to 9	85	5,515	64.7	612	7,173	110.9	57.3
10 or More	54	10,185	187.2	1,389	25,537	136.4	66.7
Energy-Related Space Functions (more than one may apply)							
Commercial Food Preparation	799	22,223	27.8	2,711	3,392	122.0	99.5
Activities with Large Amounts of Hot Water	567	19,482	34.4	2,465	4,349	126.6	113.3
Separate Computer Area	553	26,873	48.6	2,895	5,236	107.7	76.5
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	466	19,597	42.1	2,380	5,112	121.4	77.4
Economizer Cycle	508	21,108	41.5	2,589	5,092	122.6	80.1
HVAC Maintenance	2,581	51,163	19.8	5,170	2,003	101.1	81.3
Energy Management and Control System (EMCS)	252	15,630	62.0	1,782	7,068	114.0	82.4
Window and Interior Lighting Features (more than one may apply)							
Multipaned Windows	2,201	38,910	17.7	3,929	1,785	101.0	89.3
Tinted Window Glass	1,323	29,887	22.6	3,098	2,341	103.6	76.6
Reflective Window Glass	308	8,544	27.8	927	3,011	108.5	75.3
External Overhangs or Awnings	1,233	17,242	14.0	1,737	1,408	100.7	77.6
Skylights or Atriums	331	12,546	37.9	1,307	3,950	104.2	92.3
Daylighting Sensors	74	2,868	38.7	377	5,084	131.4	99.8
Specular Reflectors	928	26,118	28.2	2,829	3,049	108.3	85.6
Electronic Ballasts	2,577	46,882	18.2	4,746	1,842	101.2	80.4
Energy Management and Control System (EMCS) For Lighting	60	4,781	80.1	538	9,025	112.6	75.9
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)^a							
Heating	2,878	42,722	14.8	3,740	1,300	87.6	75.9
Cooling	2,761	43,205	15.6	3,844	1,392	89.0	71.2
Lighting	3,685	46,987	12.7	3,818	1,036	81.3	67.7
Office Equipment	1,504	19,397	12.9	1,465	975	75.5	72.7

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Table C3. Consumption and Gross Energy Intensity for Sum of Major Fuels for Non-Mall Buildings, 2003

	All Buildings*			Sum of Major Fuel Consumption			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)
All Buildings*	4,645	64,783	13.9	5,820	1,253	89.8	79.9

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/cbeecs>.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

^a The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.
N=No responding cases in sample.

Notes: • Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. • HVAC = Heating, Ventilation, and Air Conditioning. • Due to rounding, data may not sum to totals.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C4. Expenditures for Sum of Major Fuels for Non-Mall Buildings, 2003

	All Buildings*			Sum of Major Fuel Expenditures			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)
All Buildings*	4,645	64,783	13.9	92,577	19.9	1.43	15.91
Building Floorspace (Square Feet)							
1,001 to 5,000	2,552	6,789	2.7	12,812	5.0	1.89	19.08
5,001 to 10,000	889	6,585	7.4	9,398	10.6	1.43	18.22
10,001 to 25,000	738	11,535	15.6	13,140	17.8	1.14	16.93
25,001 to 50,000	241	8,668	35.9	10,392	43.1	1.20	15.44
50,001 to 100,000	129	9,057	70.4	11,897	92.5	1.31	15.68
100,001 to 200,000	65	9,064	138.8	13,391	205.1	1.48	14.34
200,001 to 500,000	25	7,176	289.0	10,347	416.7	1.44	14.28
Over 500,000	7	5,908	896.1	11,201	1698.8	1.90	14.62
Principal Building Activity							
Education	386	9,874	25.6	12,008	31.1	1.22	14.64
Food Sales	226	1,255	5.6	4,990	22.1	3.98	19.91
Food Service	297	1,654	5.6	6,865	23.1	4.15	16.07
Health Care	129	3,163	24.6	7,440	57.8	2.35	12.53
Inpatient	8	1,905	241.4	5,329	675.4	2.80	11.23
Outpatient	121	1,258	10.4	2,111	17.5	1.68	17.74
Lodging	142	5,096	35.8	7,445	52.3	1.46	14.61
Retail (Other Than Mall).....	443	4,317	9.7	5,980	13.5	1.39	18.75
Office	824	12,208	14.8	20,841	25.3	1.71	18.39
Public Assembly	277	3,939	14.2	5,790	20.9	1.47	15.65
Public Order and Safety	71	1,090	15.5	1,917	27.2	1.76	15.18
Religious Worship	370	3,754	10.1	2,457	6.6	0.65	15.06
Service	622	4,050	6.5	4,779	7.7	1.18	15.33
Warehouse and Storage	597	10,078	16.9	6,894	11.5	0.68	15.12
Other	79	1,738	21.9	4,420	55.7	2.54	15.47
Vacant	182	2,567	14.1	751	4.1	0.29	14.02
Year Constructed							
Before 1920	330	3,769	11.4	4,131	12.5	1.10	13.66
1920 to 1945	527	6,871	13.0	8,670	16.4	1.26	13.98
1946 to 1959	562	7,045	12.5	8,540	15.2	1.21	15.10
1960 to 1969	579	8,101	14.0	11,378	19.7	1.40	15.44
1970 to 1979	731	10,772	14.7	16,129	22.1	1.50	15.77
1980 to 1989	707	10,332	14.6	17,346	24.5	1.68	16.78
1990 to 1999	876	12,360	14.1	18,761	21.4	1.52	17.09
2000 to 2003	334	5,533	16.6	7,623	22.8	1.38	17.28
Census Region and Division							
Northeast	726	12,905	17.8	21,344	29.4	1.65	16.79
New England	233	2,964	12.7	4,851	20.9	1.64	16.53
Middle Atlantic	493	9,941	20.1	16,493	33.4	1.66	16.87
Midwest	1,266	17,080	13.5	21,521	17.0	1.26	12.74
East North Central	696	11,595	16.7	15,908	22.9	1.37	12.69
West North Central	571	5,485	9.6	5,613	9.8	1.02	12.87
South	1,775	23,489	13.2	31,595	17.8	1.35	16.22
South Atlantic	874	12,258	14.0	17,563	20.1	1.43	16.51
East South Central	348	3,393	9.8	4,569	13.1	1.35	14.78
West South Central	553	7,837	14.2	9,463	17.1	1.21	16.45
West	878	11,310	12.9	18,118	20.6	1.60	19.88
Mountain	299	3,675	12.3	5,629	18.9	1.53	14.76
Pacific	580	7,635	13.2	12,488	21.5	1.64	23.58

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Table C4. Expenditures for Sum of Major Fuels for Non-Mall Buildings, 2003

	All Buildings*			Sum of Major Fuel Expenditures			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)
All Buildings*	4,645	64,783	13.9	92,577	19.9	1.43	15.91
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	855	10,622	12.4	13,709	16.0	1.29	13.85
5,500-7,000 HDD	1,173	17,335	14.8	24,455	20.9	1.41	13.89
4,000-5,499 HDD	673	11,504	17.1	18,507	27.5	1.61	16.33
Fewer than 4,000 HDD	1,276	15,739	12.3	22,372	17.5	1.42	18.45
2,000 CDD or More and --							
Fewer than 4,000 HDD	669	9,584	14.3	13,534	20.2	1.41	18.70
Number of Floors							
One	3,136	25,981	8.3	33,617	10.7	1.29	17.35
Two	1,031	16,270	15.8	20,932	20.3	1.29	15.97
Three	339	7,501	22.1	9,143	26.9	1.22	14.76
Four to Nine	128	10,085	78.7	18,968	148.0	1.88	14.20
Ten or More	12	4,947	420.0	9,917	842.1	2.00	16.08
Elevators and Escalators (more than one may apply)							
Any Elevators	309	24,617	79.7	42,252	136.8	1.72	14.95
Number of Elevators							
One	208	8,221	39.5	10,967	52.7	1.33	14.99
Two to Five	88	10,129	115.1	17,217	195.7	1.70	14.88
Six or More	13	6,268	491.5	14,068	1103.1	2.24	15.02
Any Escalators	6	2,350	388.7	4,861	804.2	2.07	17.24
Number of Workers (main shift)							
Fewer than 5	2,653	15,492	5.8	13,615	5.1	0.88	16.66
5 to 9	778	6,166	7.9	8,265	10.6	1.34	17.64
10 to 19	563	7,803	13.9	9,936	17.7	1.27	16.72
20 to 49	398	10,989	27.6	16,406	41.2	1.49	15.62
50 to 99	147	7,934	53.8	11,165	75.7	1.41	15.34
100 to 249	77	6,871	89.7	12,970	169.3	1.89	15.48
250 or More	30	9,528	320.4	20,222	680.0	2.12	15.26
Weekly Operating Hours							
Fewer than 40	1,002	6,863	6.9	3,695	3.7	0.54	16.24
40 to 48	1,117	11,622	10.4	12,749	11.4	1.10	16.49
49 to 60	1,062	15,723	14.8	19,461	18.3	1.24	16.50
61 to 84	591	10,334	17.5	15,040	25.4	1.46	16.28
85 to 167	400	7,092	17.7	14,287	35.8	2.01	16.06
Open Continuously	475	13,149	27.7	27,346	57.6	2.08	14.97
Ownership and Occupancy							
Nongovernment Owned	4,011	49,421	12.3	69,675	17.4	1.41	16.58
Owner Occupied	1,841	23,591	12.8	33,551	18.2	1.42	16.29
Nonowner Occupied	2,029	23,914	11.8	35,713	17.6	1.49	16.89
Unoccupied	141	1,916	13.6	411	2.9	0.21	Q
Government Owned	635	15,363	24.2	22,902	36.1	1.49	14.16
Federal	46	1,956	42.9	3,964	86.8	2.03	13.08
State	164	3,808	23.2	7,090	43.2	1.86	13.81
Local	425	9,599	22.6	11,849	27.9	1.23	14.80
Vacancy Status							
Completely Vacant	157	2,161	13.8	516	3.3	0.24	13.88
Mostly Vacant	25	406	16.1	Q	Q	Q	Q
Partially Vacant	548	12,382	22.6	17,624	32.2	1.42	16.23
Not At All Vacant	3,915	49,834	12.7	74,203	19.0	1.49	15.85

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Table C4. Expenditures for Sum of Major Fuels for Non-Mall Buildings, 2003

	All Buildings*			Sum of Major Fuel Expenditures			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)
All Buildings*	4,645	64,783	13.9	92,577	19.9	1.43	15.91
Number of Establishments							
One	3,754	45,144	12.0	65,153	17.4	1.44	15.64
2 to 5	643	10,960	17.1	16,030	24.9	1.46	16.15
6 to 10	55	1,958	35.7	3,402	62.1	1.74	15.78
11 to 20	23	1,951	85.7	2,718	119.4	1.39	17.94
More than 20	14	2,609	181.1	4,759	330.4	1.82	18.53
Currently Unoccupied	157	2,161	13.8	516	3.3	0.24	13.88
Predominant Exterior Wall Material							
Brick, Stone or Stucco	2,044	32,817	16.1	48,399	23.7	1.47	15.19
Concrete (Block or Poured)	786	10,832	13.8	16,015	20.4	1.48	16.44
Concrete Panels	131	6,559	50.2	10,792	82.7	1.65	16.17
Siding or Shingles	779	4,120	5.3	5,071	6.5	1.23	18.34
Metal Panels	825	7,912	9.6	8,196	9.9	1.04	17.70
Window Glass	17	1,024	60.1	1,709	100.3	1.67	18.08
Other	47	1,113	23.8	1,801	38.6	1.62	14.88
No One Major Type	18	406	22.9	Q	Q	Q	Q
Predominant Roof Material							
Built-Up	1,036	21,170	20.4	33,145	32.0	1.57	15.91
Shingles (Not Wood)	1,325	10,195	7.7	13,564	10.2	1.33	16.49
Metal Surfacing	1,288	11,944	9.3	10,782	8.4	0.90	17.12
Synthetic or Rubber	511	14,730	28.8	24,825	48.6	1.69	15.05
Slate or Tile	263	2,462	9.4	3,794	14.4	1.54	18.30
Wooden Materials	122	887	7.3	1,140	9.4	1.28	16.68
Concrete	61	2,231	36.7	3,373	55.5	Q	14.28
Other	16	598	38.1	1,235	78.7	2.06	Q
No One Major Type	25	565	22.7	719	28.9	1.27	18.21
Renovations in Buildings Constructed Before 1980 (more than one may apply)							
Any Type of Renovation							
Since 1980	1,018	17,844	17.5	25,657	25.2	1.44	14.53
Addition or Annex	256	6,551	25.6	9,530	37.2	1.45	13.00
Reduction In Floorspace	22	1,012	46.1	1,710	77.8	1.69	14.67
Cosmetic Improvements	741	13,119	17.7	19,621	26.5	1.50	14.90
Wall or Roof Replacement	370	8,070	21.8	11,653	31.5	1.44	14.99
Interior Wall							
Re-Configuration	411	8,518	20.7	13,131	32.0	1.54	14.41
HVAC Equipment Upgrade	442	10,768	24.4	16,899	38.3	1.57	14.61
Lighting Upgrade	455	10,275	22.6	15,732	34.6	1.53	14.50
Window Replacement	310	6,354	20.5	9,102	29.3	1.43	14.85
Plumbing System Upgrade	315	7,144	22.7	10,965	34.8	1.53	14.66
Insulation Upgrade	227	4,015	17.7	5,868	25.8	1.46	15.41
Other Renovation	19	523	27.3	791	41.3	1.51	15.96
No Renovations Since 1980	1,710	18,714	10.9	23,191	13.6	1.24	15.65
Building Newer than 1980	1,917	28,225	14.7	43,729	22.8	1.55	17.00

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Table C4. Expenditures for Sum of Major Fuels for Non-Mall Buildings, 2003

	All Buildings*			Sum of Major Fuel Expenditures			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)
All Buildings*	4,645	64,783	13.9	92,577	19.9	1.43	15.91
Energy Sources (more than one may apply)							
Electricity	4,404	63,307	14.4	92,574	21.0	1.46	15.91
Natural Gas	2,391	43,468	18.2	67,462	28.2	1.55	15.02
Fuel Oil	451	15,157	33.6	25,905	57.5	1.71	14.72
District Heat	67	5,443	81.4	14,098	210.7	2.59	13.86
District Chilled Water	33	2,853	86.7	7,647	232.3	2.68	14.20
Propane	502	7,076	14.1	9,424	18.8	1.33	16.12
Other	132	1,401	10.6	2,032	15.4	1.45	14.63
Space-Heating Energy Sources (more than one may apply)							
Electricity	1,766	28,600	16.2	41,737	23.6	1.46	17.59
Natural Gas	2,165	36,959	17.1	54,959	25.4	1.49	14.93
Fuel Oil	360	5,988	16.6	7,485	20.8	1.25	12.67
District Heat	65	5,198	79.7	13,623	208.9	2.62	13.71
Propane	372	3,204	8.6	3,303	8.9	1.03	20.65
Other	113	842	7.4	956	8.5	1.14	15.65
Primary Space-Heating Energy Source							
Electricity	1,258	15,996	12.7	22,011	17.5	1.38	20.22
Natural Gas	1,999	32,970	16.5	48,198	24.1	1.46	14.69
Fuel Oil	282	3,818	13.5	3,963	14.1	1.04	13.47
District Heat	63	4,907	77.4	13,178	208.0	2.69	13.86
Propane	308	1,955	6.4	1,928	6.3	0.99	26.96
Other	72	382	5.3	338	4.7	0.88	17.47
Cooling Energy Sources (more than one may apply)							
Electricity	3,589	54,321	15.1	81,478	22.7	1.50	16.23
Natural Gas	17	1,018	58.9	2,005	116.0	1.97	12.60
District Chilled Water	33	2,853	86.7	7,647	232.3	2.68	14.20
Water-Heating Energy Sources (more than one may apply)							
Electricity	1,910	27,490	14.4	36,908	19.3	1.34	17.21
Natural Gas	1,445	28,820	19.9	47,610	32.9	1.65	14.85
Fuel Oil	94	1,880	19.9	2,700	28.6	1.44	13.10
District Heat	27	3,088	113.1	8,155	298.6	2.64	14.49
Propane	128	1,422	11.1	1,871	14.6	1.32	23.21
Cooking Energy Sources (more than one may apply)							
Electricity	410	13,161	32.1	23,623	57.6	1.79	14.96
Natural Gas	457	15,438	33.8	29,444	64.5	1.91	14.20
Propane	108	1,460	13.6	2,508	23.3	1.72	21.92
Energy End Uses (more than one may apply)							
Buildings with Space Heating	3,982	60,028	15.1	89,615	22.5	1.49	15.71
Buildings with Cooling	3,625	56,940	15.7	87,739	24.2	1.54	16.06
Buildings with Water Heating	3,472	56,478	16.3	87,218	25.1	1.54	15.86
Buildings with Cooking	801	22,237	27.8	40,266	50.3	1.81	14.84
Buildings with Manufacturing	119	3,138	26.5	3,950	33.3	1.26	15.53
Buildings with Electricity Generation	149	12,821	85.9	25,422	170.4	1.98	15.02

CONTINUED

Table C4. Expenditures for Sum of Major Fuels for Non-Mall Buildings, 2003

	All Buildings*			Sum of Major Fuel Expenditures			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)
All Buildings*	4,645	64,783	13.9	92,577	19.9	1.43	15.91
Percent of Floorspace Heated							
Not Heated	663	4,756	7.2	2,962	4.5	0.62	25.77
1 to 50	523	6,850	13.1	5,600	10.7	0.82	18.76
51 to 99	498	8,107	16.3	11,972	24.1	1.48	16.04
100	2,962	45,071	15.2	72,043	24.3	1.60	15.46
Percent of Floorspace Cooled							
Not Cooled	1,020	7,843	7.7	4,838	4.7	0.62	13.59
1 to 50	985	16,598	16.8	15,503	15.7	0.93	15.11
51 to 99	629	13,211	21.0	22,446	35.7	1.70	15.89
100	2,011	27,132	13.5	49,791	24.8	1.84	16.46
Percent Lit When Open							
Zero	47	293	6.3	Q	Q	Q	Q
1 to 50	929	10,203	11.0	8,599	9.3	0.84	15.92
51 to 99	1,108	18,288	16.5	28,253	25.5	1.54	16.28
100	2,176	32,789	15.1	54,958	25.3	1.68	15.75
Building Never Open/ Electricity Not Used	386	3,210	8.3	635	1.6	0.20	13.75
Percent Lit When Closed							
Zero	1,964	17,385	8.9	18,308	9.3	1.05	16.17
1 to 50	1,882	30,948	16.4	43,011	22.9	1.39	16.38
51 to 100	136	2,093	15.4	3,910	28.7	1.87	16.63
Building Never Closed/ Electricity Not Used	664	14,357	21.6	27,349	41.2	1.90	14.97
Heating Equipment (more than one may apply)							
Heat Pumps	476	8,814	18.5	14,249	30.0	1.62	17.71
Packaged Heat Pumps	278	5,442	19.6	9,330	33.6	1.71	17.85
Split-System Heat Pumps	166	2,581	15.5	3,696	22.2	1.43	18.65
Individual Room Heat Pumps	58	2,691	46.5	4,199	72.6	1.56	16.48
Furnaces	1,864	19,615	10.5	23,489	12.6	1.20	15.73
Individual Space Heaters	819	12,545	15.3	15,964	19.5	1.27	15.59
District Heat	65	5,166	79.7	13,505	208.3	2.61	13.70
Boilers	579	20,423	35.3	31,052	53.6	1.52	13.84
Packaged Heating Units	953	18,021	18.9	29,902	31.4	1.66	17.30
Other	205	3,262	15.9	3,988	19.5	1.22	17.29
Cooling Equipment (more than one may apply)							
Residential-Type Central							
Air Conditioners	1,006	11,035	11.0	14,441	14.4	1.31	15.63
Heat Pumps	492	9,041	18.4	14,738	29.9	1.63	17.61
Packaged Heat Pumps	288	5,426	18.9	9,356	32.5	1.72	17.70
Split-System Heat Pumps	174	2,606	15.0	3,776	21.7	1.45	18.48
Individual Room Heat Pumps	58	2,940	50.7	4,621	79.7	1.57	16.64
Individual Air Conditioners	742	12,558	16.9	16,175	21.8	1.29	14.98
District Chilled Water	33	2,853	86.7	7,647	232.3	2.68	14.20
Central Chillers	111	11,636	105.1	22,448	202.7	1.93	14.66
Packaged Air Conditioning							
Units	1,613	29,969	18.6	46,331	28.7	1.55	16.19
Swamp Coolers	122	1,561	12.8	2,350	19.3	1.51	14.89
Other	40	1,232	31.1	2,096	53.0	1.70	14.79

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Table C4. Expenditures for Sum of Major Fuels for Non-Mall Buildings, 2003

	All Buildings*			Sum of Major Fuel Expenditures			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)
All Buildings*	4,645	64,783	13.9	92,577	19.9	1.43	15.91
Main Equipment Replaced Since 1990 (more than one may apply)							
Heating	1,197	16,403	13.7	21,542	18.0	1.31	15.75
Cooling	1,356	20,995	15.5	30,387	22.4	1.45	15.59
Water Heating Equipment							
Centralized System	2,513	34,671	13.8	54,768	21.8	1.58	15.96
Distributed System	785	11,540	14.7	14,394	18.3	1.25	17.23
Combination of Centralized and Distributed System	175	10,267	58.8	18,056	103.4	1.76	14.67
Lighting Equipment Types (more than one may apply)							
Incandescent	2,184	38,528	17.6	60,359	27.6	1.57	15.41
Standard Fluorescent	3,943	59,688	15.1	89,627	22.7	1.50	15.88
Compact Fluorescent	941	27,571	29.3	49,570	52.7	1.80	15.45
High Intensity Discharge	455	20,643	45.4	31,999	70.3	1.55	14.94
Halogen	565	17,703	31.3	30,218	53.4	1.71	15.25
Other	8	269	31.7	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)^a							
Any Refrigeration.....	3,176	52,974	16.7	82,557	26.0	1.56	15.84
Commercial Refrigeration	1,007	26,768	26.6	50,937	50.6	1.90	15.27
Walk-In Units	666	20,254	30.4	41,811	62.8	2.06	15.12
Cases or Cabinets	825	20,424	24.8	41,463	50.3	2.03	15.34
Residential-Type Units	2,370	38,884	16.4	54,108	22.8	1.39	15.61
Vending Machines	996	35,335	35.5	56,290	56.5	1.59	15.13
No Refrigeration	1,469	11,809	8.0	10,020	6.8	0.85	16.50
Office Equipment (more than one may apply)							
Computers	3,081	55,627	18.1	85,407	27.7	1.54	15.89
With Flat Screen Monitors	877	26,417	30.1	46,704	53.3	1.77	15.75
Dedicated Servers	1,175	36,338	30.9	59,377	50.6	1.63	15.79
Laser Printers	1,970	33,012	16.8	47,880	24.3	1.45	15.91
Inkjet Printers	1,420	32,210	22.7	52,520	37.0	1.63	15.90
FAX Machines	2,715	52,373	19.3	80,902	29.8	1.54	15.89
Photocopiers	1,939	46,257	23.9	70,079	36.1	1.52	15.69
Number of Computers							
None	1,565	9,156	5.9	7,170	4.6	0.78	16.13
1 to 4	1,670	12,395	7.4	17,257	10.3	1.39	17.00
5 to 9	559	7,179	12.8	8,649	15.5	1.20	15.85
10 to 19	370	6,610	17.9	8,588	23.2	1.30	16.68
20 to 49	255	7,414	29.1	11,778	46.3	1.59	16.66
50 to 99	110	5,376	48.9	7,888	71.7	1.47	15.39
100 to 249	79	6,690	84.3	10,790	135.9	1.61	15.12
250 or More	38	9,963	264.3	20,456	542.6	2.05	14.97
Number of Dedicated Servers							
None	3,471	28,445	8.2	33,201	9.6	1.17	16.12
1 to 4	1,060	24,116	22.8	34,991	33.0	1.45	15.66
5 to 9	58	3,864	67.0	6,784	117.6	1.76	16.74
10 to 19	30	3,027	100.1	6,267	207.2	2.07	14.50
20 to 49	17	2,583	150.0	4,740	275.2	1.84	15.44
50 or More	10	2,748	276.6	6,594	663.9	2.40	17.26

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Table C4. Expenditures for Sum of Major Fuels for Non-Mall Buildings, 2003

	All Buildings*			Sum of Major Fuel Expenditures			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)
All Buildings*	4,645	64,783	13.9	92,577	19.9	1.43	15.91
Number of Photocopiers							
None	2,706	18,526	6.8	22,498	8.3	1.21	16.61
One	1,250	15,475	12.4	18,436	14.7	1.19	16.32
2 to 4	549	15,082	27.5	20,980	38.2	1.39	15.72
5 to 9	85	5,515	64.7	9,441	110.7	1.71	15.43
10 or More	54	10,185	187.2	21,223	390.1	2.08	15.27
Energy-Related Space Functions (more than one may apply)							
Commercial Food Preparation	799	22,223	27.8	40,252	50.4	1.81	14.85
Activities with Large Amounts of Hot Water	567	19,482	34.4	34,904	61.6	1.79	14.16
Separate Computer Area	553	26,873	48.6	44,552	80.6	1.66	15.39
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	466	19,597	42.1	36,254	77.9	1.85	15.23
Economizer Cycle	508	21,108	41.5	39,593	77.9	1.88	15.29
HVAC Maintenance	2,581	51,163	19.8	81,328	31.5	1.59	15.73
Energy Management and Control System (EMCS)	252	15,630	62.0	27,646	109.6	1.77	15.51
Window and Interior Lighting Features (more than one may apply)							
Multipaned Windows	2,201	38,910	17.7	59,356	27.0	1.53	15.11
Tinted Window Glass	1,323	29,887	22.6	49,568	37.5	1.66	16.00
Reflective Window Glass	308	8,544	27.8	14,414	46.8	1.69	15.55
External Overhangs or Awnings	1,233	17,242	14.0	28,248	22.9	1.64	16.27
Skylights or Atriums	331	12,546	37.9	19,284	58.3	1.54	14.76
Daylighting Sensors	74	2,868	38.7	6,261	84.5	2.18	16.62
Specular Reflectors	928	26,118	28.2	43,466	46.9	1.66	15.37
Electronic Ballasts	2,577	46,882	18.2	74,873	29.1	1.60	15.78
Energy Management and Control System (EMCS) For Lighting	60	4,781	80.1	8,967	150.3	1.88	16.65
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)^a							
Heating	2,878	42,722	14.8	60,293	20.9	1.41	16.12
Cooling	2,761	43,205	15.6	62,872	22.8	1.46	16.36
Lighting	3,685	46,987	12.7	62,313	16.9	1.33	16.32
Office Equipment	1,504	19,397	12.9	23,915	15.9	1.23	16.32

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Table C4. Expenditures for Sum of Major Fuels for Non-Mall Buildings, 2003

	All Buildings*			Sum of Major Fuel Expenditures			
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (million dollars)	per Building (thousand dollars)	per Square Foot (dollars)	per Million Btu (dollars)
All Buildings*	4,645	64,783	13.9	92,577	19.9	1.43	15.91

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>.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

^a The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: ● Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

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

Table C5. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6
Building Floorspace (Square Feet)												
1,001 to 5,000	118	206	240	108	1,025	1,895	2,533	1,336	115.1	108.5	94.9	80.6
5,001 to 10,000	102	117	185	112	1,123	1,565	2,658	1,239	90.7	74.7	69.5	90.8
10,001 to 25,000	148	228	250	150	1,972	3,098	4,378	2,087	75.3	73.6	57.2	71.7
25,001 to 50,000	106	247	205	114	1,292	2,567	3,168	1,643	82.4	96.3	64.8	69.4
50,001 to 100,000	203	212	255	89	2,040	2,260	3,435	1,322	99.4	93.6	74.3	67.6
100,001 to 200,000	209	252	375	97	2,117	2,296	3,475	1,177	98.8	109.8	107.9	82.7
200,001 to 500,000	189	244	191	100	1,781	2,196	1,914	1,286	106.3	111.1	99.9	78.1
Over 500,000	Q	184	246	140	1,556	1,203	1,928	1,221	Q	153.2	127.8	115.0
Principal Building Activity												
Education	171	219	301	129	1,683	2,541	3,983	1,667	101.6	86.3	75.5	77.6
Food Sales	Q	70	91	Q	238	320	487	Q	Q	219.1	187.7	Q
Food Service	Q	99	217	65	172	453	764	265	Q	218.8	283.4	243.8
Health Care	114	164	217	99	535	798	1,277	553	212.2	205.6	169.8	179.6
Inpatient	Q	119	190	67	358	438	838	270	Q	272.2	226.7	246.8
Outpatient	Q	45	27	33	177	359	438	283	Q	124.4	60.9	115.3
Lodging	108	125	164	113	1,171	1,144	1,694	1,087	Q	109.0	96.9	103.7
Retail (Other Than Mall).....	41	90	127	61	630	880	1,844	963	65.0	102.7	68.7	63.2
Office	305	325	329	175	3,012	2,989	3,782	2,425	101.2	108.8	87.0	72.1
Public Assembly	93	103	109	64	1,048	1,012	1,174	706	Q	101.7	93.2	91.2
Public Order and Safety	Q	Q	Q	Q	362	221	373	Q	Q	Q	Q	Q
Religious Worship	33	59	57	14	627	1,115	1,498	515	52.1	52.8	38.3	27.6
Service	59	110	90	53	740	1,289	1,358	664	79.8	85.0	66.3	80.0
Warehouse and Storage	63	225	106	61	1,523	3,017	3,966	1,572	41.6	74.7	26.7	39.0
Other	Q	Q	Q	Q	649	316	Q	186	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	517	984	701	Q	Q	Q	Q	Q
Year Constructed												
Before 1920	114	123	41	Q	1,406	1,552	516	295	81.4	79.4	79.5	Q
1920 to 1945	221	262	79	59	2,504	2,099	1,348	920	88.2	124.6	58.3	64.1
1946 to 1959	189	165	138	74	2,094	2,027	1,795	1,128	90.5	81.2	76.8	65.2
1960 to 1969	211	205	201	120	1,737	2,229	2,538	1,597	121.4	91.8	79.2	75.4
1970 to 1979	191	322	320	190	1,723	3,237	3,726	2,086	111.0	99.5	85.8	91.1
1980 to 1989	146	221	449	218	1,374	1,949	4,768	2,241	106.2	113.3	94.2	97.4
1990 to 1999	118	286	524	170	1,370	2,746	6,241	2,004	85.9	104.0	84.0	84.9
2000 to 2003	Q	107	197	56	698	1,240	2,557	1,038	Q	86.3	77.1	54.2
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	197	539	N	254	2,416	5,615	N	2,591	81.6	96.0	N	98.0
5,500-7,000 HDD	525	1,038	N	197	5,398	9,867	N	2,070	97.3	105.2	N	95.4
4,000-5,499 HDD	549	113	407	Q	5,092	1,597	4,122	693	107.8	70.5	98.7	94.0
Fewer than 4,000 HDD	N	N	884	329	N	N	10,338	5,401	N	N	85.5	60.9
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	658	66	N	N	9,029	555	N	N	72.8	118.8
Number of Floors												
One	271	565	736	365	3,151	6,104	11,757	4,969	86.0	92.5	62.6	73.4
Two	254	429	401	227	3,029	5,177	4,946	3,118	83.8	82.9	81.1	72.7
Three	156	236	164	64	2,083	2,584	1,938	896	74.9	91.4	84.4	71.0
Four to Nine	368	380	435	153	3,003	2,660	3,094	1,328	122.6	142.9	140.6	115.2
Ten or More	222	79	212	Q	1,640	555	1,754	999	135.5	142.6	121.1	103.1

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Table C5. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6
Elevators and Escalators (more than one may apply)												
Any Elevators	723	793	938	372	6,137	6,677	7,949	3,855	117.8	118.8	118.0	96.5
Number of Elevators												
One	167	289	200	77	1,585	3,084	2,475	1,077	105.1	93.5	80.7	71.3
Two to Five	302	334	393	128	2,971	2,704	3,094	1,360	101.7	123.5	127.1	94.3
Six or More	254	171	345	167	1,581	889	2,380	1,418	160.8	192.0	144.9	117.8
Any Escalators	Q	Q	130	Q	541	Q	1,002	Q	Q	Q	129.4	Q
Number of Workers (main shift)												
Fewer than 5	153	341	211	113	2,376	4,958	5,670	2,489	64.3	68.8	37.1	45.3
5 to 9	89	131	169	80	1,085	1,463	2,595	1,023	81.7	89.4	65.2	78.1
10 to 19	129	182	199	84	1,872	2,081	2,741	1,109	68.9	87.5	72.7	75.8
20 to 49	208	310	366	167	2,314	2,856	3,883	1,935	89.7	108.5	94.2	86.1
50 to 99	165	231	218	113	1,598	2,311	2,654	1,370	103.4	100.0	82.3	82.5
100 to 249	179	205	332	121	1,331	1,609	2,534	1,397	134.6	127.3	131.2	86.8
250 or More	349	290	453	234	2,329	1,800	3,413	1,986	149.6	161.0	132.7	117.6
Weekly Operating Hours												
Fewer than 40	35	83	68	41	923	2,300	2,544	1,096	37.8	36.2	26.8	37.7
40 to 48	161	239	257	117	2,111	2,783	4,567	2,161	76.3	85.8	56.2	54.0
49 to 60	221	447	347	163	3,098	4,614	5,556	2,455	71.4	97.0	62.5	66.5
61 to 84	195	251	329	150	2,048	2,583	3,754	1,950	95.0	97.2	87.5	76.8
85 to 167	161	286	320	122	1,317	2,008	2,459	1,308	122.5	142.7	130.1	93.1
Open Continuously	498	383	627	318	3,407	2,793	4,608	2,340	146.2	137.1	136.1	136.0
Ownership and Occupancy												
Nongovernment Owned	993	1,143	1,408	659	10,389	12,470	17,826	8,736	95.6	91.7	79.0	75.5
Owner Occupied	581	588	627	265	5,904	6,171	7,869	3,648	98.3	95.3	79.6	72.7
Nonowner Occupied	408	541	774	392	4,204	5,539	9,358	4,813	96.9	97.7	82.7	81.4
Unoccupied	Q	Q	Q	Q	Q	Q	600	Q	Q	Q	Q	Q
Government Owned	278	547	541	252	2,517	4,610	5,662	2,574	110.4	118.6	95.5	97.8
Federal	Q	Q	66	Q	Q	Q	521	Q	Q	Q	126.9	Q
State	Q	119	219	88	599	764	1,718	727	Q	156.1	127.7	121.3
Local	174	251	255	120	1,706	2,925	3,423	1,545	101.7	85.9	74.6	78.0
Vacancy Status												
Completely Vacant	Q	Q	Q	Q	Q	892	652	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	297	322	302	164	3,117	3,119	4,061	2,085	95.3	103.3	74.4	78.9
Not At All Vacant	962	1,340	1,639	741	9,271	12,976	18,726	8,860	103.7	103.3	87.5	83.6
Number of Establishments												
One	841	1,262	1,374	689	8,061	12,359	16,947	7,776	104.4	102.1	81.1	88.6
2 to 5	245	291	324	133	2,517	2,803	3,740	1,900	97.2	103.8	86.6	70.0
6 to 10	58	56	76	25	571	510	550	327	101.9	110.1	138.2	76.9
11 to 20	Q	Q	62	Q	722	301	589	340	Q	Q	104.7	Q
More than 20	Q	Q	105	Q	696	Q	1,011	688	Q	Q	104.2	Q
Currently Unoccupied	Q	Q	Q	Q	Q	892	652	Q	Q	Q	Q	Q

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Table C5. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6
Predominant Exterior Wall Material												
Brick, Stone or Stucco	770	1,005	1,009	403	7,248	9,248	11,574	4,747	106.2	108.7	87.2	84.8
Concrete (Block or Poured)	187	288	343	156	2,184	2,887	3,985	1,777	85.4	99.9	86.0	88.0
Concrete Panels	Q	150	288	153	599	1,230	2,758	1,972	Q	121.6	104.6	77.7
Siding or Shingles	76	71	73	57	1,193	1,183	1,045	698	63.4	60.0	69.9	81.3
Metal Panels	104	95	165	99	1,054	1,880	3,426	1,552	98.7	50.5	48.2	63.7
Window Glass	Q	Q	Q	Q	Q	Q	280	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	303	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material												
Built-Up	414	586	707	378	4,068	5,262	7,430	4,411	101.7	111.3	95.1	85.6
Shingles (Not Wood)	207	258	236	122	2,022	3,199	3,325	1,649	102.4	80.7	70.9	73.7
Metal Surfacing	58	161	290	121	1,027	2,663	6,309	1,946	56.1	60.3	46.0	62.3
Synthetic or Rubber	468	482	514	185	4,116	4,443	4,298	1,873	113.7	108.5	119.6	98.7
Slate or Tile	Q	30	79	47	480	306	1,056	620	Q	98.3	74.9	75.4
Wooden Materials	Q	Q	Q	Q	Q	Q	301	244	Q	Q	Q	Q
Concrete	Q	Q	Q	Q	Q	Q	426	400	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)												
Any Type of Renovation												
Since 1980	537	566	416	248	5,104	5,437	4,462	2,841	105.2	104.0	93.2	87.3
Addition or Annex	187	241	195	110	1,797	1,970	1,804	979	104.0	122.4	108.1	112.1
Reduction In Floorspace	Q	Q	Q	Q	404	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	419	426	285	188	3,952	3,879	3,105	2,183	106.1	109.8	91.7	85.9
Wall or Roof Replacement	260	230	171	115	2,676	2,238	1,863	1,294	97.2	103.0	92.0	89.2
Interior Wall												
Re-Configuration	265	294	201	151	2,489	2,586	1,936	1,507	106.5	113.9	103.7	100.0
HVAC Equipment Upgrade	338	369	278	172	3,027	3,332	2,584	1,825	111.7	110.8	107.4	94.0
Lighting Upgrade	365	337	215	168	3,350	3,059	2,092	1,775	109.0	110.2	102.7	94.8
Window Replacement	271	184	82	76	2,750	1,847	916	842	98.6	99.5	89.1	90.8
Plumbing System Upgrade	261	215	148	124	2,511	1,898	1,366	1,369	103.8	113.3	108.6	90.8
Insulation Upgrade	138	115	84	43	1,370	1,212	857	576	101.0	95.2	97.6	75.2
Other Renovation	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	390	511	362	219	4,360	5,708	5,462	3,185	89.4	89.5	66.3	68.7
Building Newer than 1980	344	613	1,170	445	3,441	5,935	13,565	5,283	100.0	103.4	86.3	84.1
Energy Sources (more than one may apply)												
Electricity	1,271	1,689	1,948	911	12,809	16,701	22,766	11,030	99.2	101.2	85.6	82.6
Natural Gas	997	1,379	1,389	726	9,181	13,163	13,311	7,813	108.6	104.8	104.4	92.9
Fuel Oil	636	389	488	247	6,080	2,832	4,122	2,123	104.6	137.4	118.4	116.2
District Heat	Q	336	324	Q	1,363	1,648	1,766	667	Q	204.2	183.7	Q
District Chilled Water	Q	Q	202	Q	620	596	1,150	487	Q	Q	175.3	Q
Propane	98	211	148	127	1,354	2,189	2,360	1,173	72.1	96.6	62.9	108.2
Other	Q	48	Q	Q	222	505	306	367	Q	94.3	Q	93.7

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Table C5. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6
Space-Heating Energy Sources (more than one may apply)												
Electricity	444	547	1,013	369	4,405	6,223	13,058	4,914	100.8	88.0	77.6	75.1
Natural Gas	778	1,227	1,082	595	7,238	12,180	10,693	6,848	107.5	100.7	101.2	86.9
Fuel Oil	358	108	92	Q	3,927	916	897	247	91.2	117.8	102.5	Q
District Heat	Q	335	318	Q	1,260	1,640	1,683	615	Q	204.0	188.7	Q
Propane	Q	27	70	Q	743	806	1,195	459	Q	33.7	58.7	80.4
Other	Q	Q	Q	Q	Q	272	Q	Q	Q	Q	Q	Q
Primary Space-Heating Energy Source												
Electricity	99	205	596	189	1,253	2,545	9,084	3,114	78.8	80.5	65.6	60.7
Natural Gas	677	1,112	950	541	6,439	11,321	9,299	5,911	105.1	98.2	102.2	91.5
Fuel Oil	240	Q	Q	Q	3,250	229	232	Q	73.9	Q	Q	Q
District Heat	Q	318	304	Q	1,205	1,531	1,614	557	Q	207.8	188.6	Q
Propane	Q	Q	22	Q	Q	569	674	332	Q	31.7	33.0	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling Energy Sources (more than one may apply)												
Electricity	1,074	1,387	1,767	792	10,402	13,781	20,623	9,515	103.3	100.7	85.7	83.3
Natural Gas	Q	Q	Q	Q	353	Q	Q	Q	Q	Q	Q	Q
District Chilled Water	Q	Q	202	Q	620	596	1,150	487	Q	Q	175.3	Q
Water-Heating Energy Sources (more than one may apply)												
Electricity	404	564	909	268	5,125	6,477	11,882	4,007	78.9	87.1	76.5	66.8
Natural Gas	660	942	1,005	598	5,601	8,799	8,306	6,114	117.9	107.1	121.0	97.8
Fuel Oil	155	Q	Q	Q	1,542	Q	Q	Q	100.5	Q	Q	Q
District Heat	Q	Q	171	Q	929	749	956	454	Q	Q	179.2	Q
Propane	Q	Q	27	Q	261	390	537	Q	Q	42.9	50.5	Q
Cooking Energy Sources (more than one may apply)												
Electricity	315	449	598	217	2,495	3,784	4,900	1,982	126.2	118.8	122.1	109.3
Natural Gas	458	538	774	303	3,580	3,965	5,480	2,412	128.0	135.7	141.2	125.7
Propane	28	Q	33	Q	396	233	451	381	70.0	Q	74.3	Q
Energy End Uses (more than one may apply)												
Buildings with Space Heating	1,264	1,682	1,900	858	12,596	16,331	20,998	10,102	100.3	103.0	90.5	85.0
Buildings with Cooling	1,170	1,511	1,927	857	10,954	14,484	21,553	9,950	106.8	104.3	89.4	86.1
Buildings with Water Heating	1,213	1,537	1,869	879	11,789	14,928	19,913	9,848	102.9	103.0	93.8	89.3
Buildings with Cooking	618	731	967	397	5,016	5,850	7,881	3,489	123.1	124.9	122.7	113.8
Buildings with Manufacturing	84	72	42	56	1,013	798	642	685	83.1	90.3	65.4	81.9
Buildings with Electricity Generation	457	487	495	254	3,245	3,317	4,017	2,241	140.8	146.8	123.3	113.2
Percent of Floorspace Heated												
Not Heated	Q	Q	48	53	309	748	2,491	1,208	Q	Q	19.2	43.7
1 to 50	57	56	121	65	1,387	1,130	2,841	1,491	41.0	49.8	42.4	43.4
51 to 99	150	176	253	167	1,539	1,727	2,891	1,950	97.5	102.1	87.5	85.8
100	1,057	1,450	1,527	626	9,671	13,474	15,266	6,661	109.3	107.6	100.0	94.0

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Table C5. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6
Percent of Floorspace Cooled												
Not Cooled	101	179	22	54	1,952	2,596	1,936	1,359	51.9	68.8	11.1	39.9
1 to 50	324	336	208	158	4,270	4,757	4,915	2,656	76.0	70.7	42.3	59.3
51 to 99	377	435	378	223	3,101	3,761	3,903	2,446	121.5	115.7	96.8	91.1
100	468	739	1,341	476	3,582	5,966	12,735	4,849	130.8	124.0	105.3	98.3
Percent Lit When Open												
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	157	178	133	72	2,750	2,753	3,189	1,512	57.3	64.8	41.6	47.4
51 to 99	426	514	514	282	3,599	5,299	6,134	3,256	118.2	97.0	83.9	86.6
100	678	970	1,288	553	6,051	7,781	12,874	6,083	112.1	124.7	100.1	90.9
Building Never Open/ Electricity Not Used	Q	Q	Q	Q	465	1,227	1,108	Q	Q	Q	Q	Q
Percent Lit When Closed												
Zero	189	434	333	176	2,807	5,174	6,292	3,112	67.5	83.9	52.9	56.5
1 to 50	542	790	894	399	6,279	8,293	11,027	5,349	86.3	95.3	81.1	74.7
51 to 100	Q	82	94	Q	Q	499	1,013	238	Q	164.3	92.4	Q
Building Never Closed/ Electricity Not Used	498	383	627	318	3,476	3,114	5,157	2,611	143.3	123.1	121.7	121.9
Heating Equipment (more than one may apply)												
Heat Pumps	177	96	395	136	1,213	1,058	4,942	1,600	146.1	91.0	79.9	85.2
Packaged Heat Pumps	Q	68	257	Q	744	738	2,928	1,031	Q	92.7	87.6	95.1
Split-System Heat Pumps	Q	Q	127	30	Q	Q	1,862	368	Q	Q	68.1	82.3
Individual Room Heat Pumps	Q	Q	101	34	544	358	1,250	538	Q	Q	80.5	62.5
Furnaces	275	596	397	225	3,596	7,229	5,715	3,075	76.6	82.4	69.4	73.1
Individual Space Heaters	263	339	276	146	2,786	4,169	3,608	1,981	94.2	81.4	76.5	73.6
District Heat	Q	330	318	Q	1,245	1,623	1,683	615	Q	203.5	188.7	Q
Boilers	661	656	559	368	6,228	6,141	4,393	3,662	106.1	106.8	127.4	100.5
Packaged Heating Units	365	401	722	241	2,912	3,666	8,130	3,312	125.2	109.4	88.8	72.7
Other	Q	74	85	33	579	820	1,381	481	Q	90.7	61.4	67.5
Cooling Equipment (more than one may apply)												
Residential-Type Central												
Air Conditioners	237	343	255	90	2,391	3,609	3,854	1,181	99.1	94.9	66.0	75.9
Heat Pumps	183	99	406	149	1,270	1,063	4,923	1,785	143.8	93.5	82.4	83.7
Packaged Heat Pumps	Q	72	255	Q	788	760	2,849	1,030	Q	95.1	89.4	94.0
Split-System Heat Pumps	Q	Q	132	32	Q	Q	1,868	404	Q	Q	70.5	79.6
Individual Room Heat Pumps	Q	Q	108	49	557	358	1,290	734	Q	Q	83.6	66.6
Individual Air Conditioners	352	320	272	136	3,687	3,488	3,635	1,749	95.4	91.8	74.7	77.8
District Chilled Water	Q	Q	202	Q	620	596	1,150	487	Q	Q	175.3	Q
Central Chillers	294	404	600	233	1,852	2,842	4,854	2,088	158.6	142.1	123.7	111.7
Packaged Air Conditioning												
Units	657	851	897	457	6,000	8,086	10,401	5,482	109.6	105.2	86.2	83.3
Swamp Coolers	Q	Q	Q	134	Q	Q	Q	1,342	Q	Q	Q	100.1
Other	Q	Q	Q	Q	Q	330	430	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)												
Heating	304	461	370	232	3,974	5,026	4,815	2,588	76.5	91.8	76.8	89.6
Cooling	535	597	522	295	5,453	5,752	6,415	3,374	98.1	103.8	81.3	87.5

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Table C5. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6
Water Heating Equipment												
Centralized System	828	1,000	1,094	510	7,770	9,724	11,537	5,640	106.6	102.8	94.9	90.4
Distributed System	179	228	312	117	2,325	2,670	4,564	1,981	77.1	85.2	68.3	58.9
Combination of Centralized and Distributed System	206	310	463	252	1,695	2,534	3,812	2,227	121.4	122.3	121.4	113.3
Lighting Equipment Types (more than one may apply)												
Incandescent	860	1,132	1,320	604	8,102	10,973	13,045	6,408	106.2	103.2	101.2	94.3
Standard Fluorescent	1,230	1,637	1,886	891	12,159	15,708	21,222	10,599	101.2	104.2	88.9	84.1
Compact Fluorescent	744	837	1,071	556	6,091	6,828	8,881	5,772	122.2	122.6	120.6	96.3
High Intensity Discharge	492	748	620	282	4,379	6,620	6,229	3,416	112.3	113.0	99.5	82.5
Halogen	430	573	675	303	3,581	4,661	6,193	3,268	120.1	122.9	109.0	92.9
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)^a												
Any Refrigeration.....	1,136	1,456	1,818	804	10,842	14,082	19,103	8,947	104.7	103.4	95.2	89.9
Commercial Refrigeration	758	883	1,225	469	5,936	7,122	9,638	4,072	127.8	124.0	127.1	115.2
Walk-In Units	588	701	1,073	404	4,452	5,201	7,469	3,132	132.0	134.9	143.6	129.0
Cases or Cabinets	641	654	1,006	402	4,504	4,978	7,664	3,277	142.3	131.4	131.2	122.6
Residential-Type Units	819	1,026	1,102	519	8,288	10,792	13,162	6,642	98.9	95.0	83.7	78.2
Vending Machines	786	1,023	1,345	567	6,559	9,400	13,534	5,841	119.8	108.9	99.4	97.0
No Refrigeration	136	234	130	107	2,064	2,997	4,386	2,363	65.7	78.0	29.7	45.4
Office Equipment (more than one may apply)												
Computers	1,198	1,526	1,794	859	11,518	14,415	19,715	9,980	104.0	105.8	91.0	86.0
With Flat Screen Monitors	748	750	1,005	463	5,995	6,346	9,135	4,940	124.8	118.2	110.0	93.7
Dedicated Servers	909	1,028	1,242	581	8,143	9,252	12,649	6,294	111.7	111.1	98.2	92.3
Laser Printers	685	834	966	524	7,095	8,463	11,566	5,888	96.6	98.6	83.5	89.0
Inkjet Printers	718	914	1,153	516	6,415	8,305	11,480	6,009	112.0	110.1	100.5	85.9
FAX Machines	1,165	1,391	1,747	789	11,173	13,295	18,782	9,123	104.3	104.6	93.0	86.5
Photocopiers	1,051	1,236	1,479	699	9,893	11,859	16,312	8,193	106.2	104.2	90.7	85.4
Number of Computers												
None	73	164	155	53	1,388	2,664	3,774	1,330	52.9	61.5	41.0	39.6
1 to 4	183	327	363	143	2,081	3,743	4,419	2,151	87.9	87.3	82.2	66.3
5 to 9	88	193	152	112	1,604	1,938	2,538	1,099	55.0	99.8	59.9	102.0
10 to 19	112	168	145	90	1,321	1,690	2,403	1,196	84.7	99.5	60.4	75.1
20 to 49	146	186	250	126	1,504	1,932	2,425	1,554	96.9	96.0	103.0	81.1
50 to 99	100	133	207	73	1,157	1,049	2,102	1,068	Q	126.6	98.6	67.9
100 to 249	173	198	222	121	1,260	1,851	2,262	1,317	137.2	106.7	98.2	91.9
250 or More	396	322	455	194	2,590	2,213	3,565	1,595	152.8	145.4	127.5	121.9
Number of Dedicated Servers												
None	362	662	706	330	4,763	7,828	10,839	5,015	75.9	84.6	65.1	65.9
1 to 4	518	650	715	351	5,247	6,567	8,208	4,093	98.7	99.0	87.1	85.7
5 to 9	Q	114	140	61	914	966	1,313	671	Q	118.3	106.9	91.1
10 to 19	Q	124	155	53	578	773	1,126	552	Q	160.3	138.0	96.2
20 to 49	Q	Q	141	Q	493	334	1,265	491	Q	Q	111.8	Q
50 or More	Q	86	90	Q	912	Q	737	487	Q	141.1	122.5	Q

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Table C5. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6
Number of Photocopiers												
None	220	454	469	212	3,012	5,221	7,176	3,117	73.0	86.9	65.4	68.0
One	231	366	340	192	3,027	4,235	5,460	2,753	76.4	86.5	62.2	69.9
2 to 4	276	384	482	192	2,944	4,026	5,518	2,594	93.7	95.5	87.3	74.2
5 to 9	177	162	197	76	1,518	1,401	1,782	814	116.4	115.8	110.6	93.2
10 or More	367	323	461	239	2,404	2,196	3,553	2,032	152.7	147.1	129.7	117.4
Energy-Related Space Functions (more than one may apply)												
Commercial Food Preparation	618	731	967	396	5,016	5,850	7,880	3,478	123.1	124.9	122.7	113.7
Activities with Large Amounts of Hot Water	506	683	856	421	3,922	5,225	6,903	3,432	129.0	130.7	124.0	122.6
Separate Computer Area	763	731	943	458	5,925	6,482	9,397	5,070	128.8	112.8	100.3	90.3
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System	525	648	845	362	3,780	5,001	7,348	3,468	138.9	129.6	115.0	104.5
Economizer Cycle	587	752	813	436	4,141	5,884	6,632	4,452	141.8	127.8	122.6	98.0
HVAC Maintenance	1,160	1,457	1,731	822	11,047	13,128	17,641	9,347	105.0	111.0	98.1	87.9
Energy Management and Control System (EMCS)	419	460	609	295	3,002	3,799	5,802	3,027	139.5	121.0	104.9	97.4
Window and Interior Lighting Features (more than one may apply)												
Multipaned Windows	950	1,253	1,197	529	9,308	11,761	12,305	5,536	102.0	106.5	97.3	95.6
Tinted Window Glass	628	843	1,129	498	4,958	7,319	11,950	5,660	126.7	115.1	94.4	88.0
Reflective Window Glass	198	249	340	139	1,661	2,165	3,010	1,707	119.2	115.2	113.0	81.5
External Overhangs or Awnings	297	441	669	329	2,687	4,225	6,785	3,545	110.6	104.5	98.5	92.9
Skylights or Atriums	300	380	379	247	2,892	3,267	3,922	2,466	103.8	116.4	96.7	100.3
Daylighting Sensors	Q	112	79	139	428	815	674	951	Q	137.1	117.8	145.9
Specular Reflectors	674	931	812	412	5,834	7,709	7,871	4,703	115.6	120.7	103.1	87.5
Electronic Ballasts	1,002	1,403	1,580	761	9,288	12,610	16,459	8,525	107.9	111.3	96.0	89.2
Energy Management and Control System (EMCS) For Lighting	Q	162	148	108	849	1,292	1,471	1,169	Q	125.1	100.5	92.7
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)^a												
Heating	922	1,009	1,197	613	9,519	10,908	14,655	7,639	96.8	92.5	81.7	80.3
Cooling	883	1,002	1,309	649	8,812	10,469	16,094	7,829	100.2	95.8	81.4	82.9
Lighting	724	1,259	1,260	575	8,706	12,884	17,115	8,282	83.1	97.8	73.6	69.5
Office Equipment	355	496	401	213	4,269	5,412	6,426	3,291	83.0	91.7	62.5	64.8

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Table C5. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)				Total Floorspace of Buildings (million square feet)				Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	1,271	1,690	1,948	911	12,905	17,080	23,489	11,310	98.5	98.9	82.9	80.6

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>.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

^a The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: • Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. • HVAC = Heating, Ventilation, and Air Conditioning. • Due to rounding, data may not sum to totals. Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C6. Expenditures by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Expenditures (million dollars)				Sum of Major Fuel Expenditures (dollars)							
					per Million Btu				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60
Building Floorspace (Square Feet)												
1,001 to 5,000	2,298	3,235	4,752	2,526	19.47	15.74	19.77	23.48	2.24	1.71	1.88	1.89
5,001 to 10,000	1,806	1,694	3,368	2,529	17.72	14.50	18.24	22.49	1.61	1.08	1.27	2.04
10,001 to 25,000	2,606	3,157	4,530	2,846	17.56	13.85	18.09	19.03	1.32	1.02	1.03	1.36
25,001 to 50,000	1,768	3,033	3,422	2,170	16.61	12.27	16.67	19.02	1.37	1.18	1.08	1.32
50,001 to 100,000	3,479	2,592	3,959	1,866	17.16	12.25	15.52	20.88	1.71	1.15	1.15	1.41
100,001 to 200,000	3,292	3,029	5,328	1,743	15.74	12.02	14.20	17.92	1.55	1.32	1.53	1.48
200,001 to 500,000	2,877	2,798	2,781	1,892	15.20	11.47	14.55	18.84	1.62	1.27	1.45	1.47
Over 500,000	Q	1,983	3,456	2,545	Q	10.75	14.03	18.12	Q	1.65	1.79	2.08
Principal Building Activity												
Education	2,508	2,465	4,948	2,087	14.66	11.24	16.46	16.14	1.49	0.97	1.24	1.25
Food Sales	Q	1,192	1,814	Q	Q	16.99	19.86	Q	Q	3.72	3.73	Q
Food Service	Q	1,384	3,399	1,250	Q	13.95	15.70	19.37	Q	3.05	4.45	4.72
Health Care	1,510	1,690	2,681	1,560	13.30	10.30	12.37	15.70	2.82	2.12	2.10	2.82
Inpatient	Q	1,052	2,180	Q	Q	8.81	11.47	Q	Q	2.40	2.60	Q
Outpatient	Q	638	501	658	Q	14.27	18.76	20.17	Q	1.78	1.14	2.33
Lodging	1,531	1,434	2,451	2,029	14.16	11.51	14.92	18.00	Q	1.25	1.45	1.87
Retail (Other Than Mall).....	837	1,212	2,433	1,499	20.43	13.40	19.20	24.64	1.33	1.38	1.32	1.56
Office	6,229	4,787	5,609	4,216	20.44	14.72	17.05	24.13	2.07	1.60	1.48	1.74
Public Assembly	1,329	1,290	1,735	Q	14.22	12.54	15.87	22.31	Q	1.28	1.48	2.03
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	425	693	1,071	268	13.02	11.76	18.66	18.86	0.68	0.62	0.71	0.52
Service	942	1,434	1,535	867	15.97	13.09	Q	16.33	1.27	1.11	1.13	1.31
Warehouse and Storage	1,056	2,724	1,928	1,187	16.66	12.08	18.24	19.36	0.69	0.90	0.49	0.76
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed												
Before 1920	1,710	1,434	605	Q	14.93	11.63	14.74	Q	1.22	0.92	1.17	Q
1920 to 1945	3,246	2,880	1,301	1,242	14.69	11.01	16.57	21.07	1.30	1.37	0.97	1.35
1946 to 1959	2,943	2,031	2,126	1,440	15.54	12.34	15.42	19.57	1.41	1.00	1.18	1.28
1960 to 1969	3,505	2,448	3,222	2,203	16.63	11.96	16.04	18.29	2.02	1.10	1.27	1.38
1970 to 1979	3,425	4,127	5,077	3,500	17.91	12.82	15.88	18.41	1.99	1.27	1.36	1.68
1980 to 1989	2,923	3,069	7,152	4,202	20.02	13.90	15.93	19.26	2.13	1.57	1.50	1.87
1990 to 1999	2,216	3,988	8,567	3,989	18.83	13.96	16.34	23.45	1.62	1.45	1.37	1.99
2000 to 2003	1,376	1,544	3,544	1,158	Q	14.43	17.96	20.60	1.97	1.25	1.39	1.12
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	3,499	6,874	N	3,336	17.74	12.76	N	13.14	1.45	1.22	N	1.29
5,500-7,000 HDD	8,356	13,204	N	2,895	15.92	12.72	N	14.66	1.55	1.34	N	1.40
4,000-5,499 HDD	9,489	1,442	6,339	Q	17.29	12.80	15.58	18.99	1.86	0.90	1.54	1.78
Fewer than 4,000 HDD	N	N	13,141	9,231	N	N	14.87	28.07	N	N	1.27	1.71
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	12,115	1,419	N	N	18.42	21.51	N	N	1.34	2.55
Number of Floors												
One	5,015	7,842	13,429	7,330	18.50	13.88	18.24	20.09	1.59	1.28	1.14	1.48
Two	4,166	5,474	6,664	4,628	16.42	12.75	16.62	20.42	1.38	1.06	1.35	1.48
Three	2,390	3,012	2,457	1,285	15.31	12.75	15.02	20.20	1.15	1.17	1.27	1.43
Four to Nine	6,000	4,237	5,941	2,789	16.30	11.15	13.66	18.23	2.00	1.59	1.92	2.10
Ten or More	Q	Q	3,105	Q	Q	Q	14.62	Q	Q	Q	1.77	Q

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Table C6. Expenditures by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Expenditures (million dollars)				Sum of Major Fuel Expenditures (dollars)							
					per Million Btu				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60
Elevators and Escalators (more than one may apply)												
Any Elevators	11,964	9,486	13,512	7,290	16.55	11.96	14.41	19.60	1.95	1.42	1.70	1.89
Number of Elevators												
One	2,895	3,543	3,184	1,345	17.37	12.28	15.95	17.50	1.83	1.15	1.29	1.25
Two to Five	4,886	4,082	5,587	2,663	16.18	12.22	14.21	20.77	1.64	1.51	1.81	1.96
Six or More	4,183	1,861	4,741	3,283	16.46	10.91	13.75	19.66	2.65	2.09	1.99	2.31
Any Escalators	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Number of Workers (main shift)												
Fewer than 5	2,461	4,520	4,256	2,378	16.11	13.25	20.21	21.09	1.04	0.91	0.75	0.96
5 to 9	1,646	1,954	3,162	1,503	18.56	14.94	18.70	18.82	1.52	1.34	1.22	1.47
10 to 19	2,128	2,417	3,596	1,795	16.49	13.26	18.06	21.36	1.14	1.16	1.31	1.62
20 to 49	3,614	3,879	5,709	3,203	17.40	12.52	15.60	19.22	1.56	1.36	1.47	1.66
50 to 99	2,655	2,903	3,486	2,121	16.07	12.57	15.96	18.76	1.66	1.26	1.31	1.55
100 to 249	2,876	2,453	4,878	2,763	16.04	11.98	14.68	22.79	2.16	1.52	1.93	1.98
250 or More	5,965	3,394	6,508	4,355	17.11	11.71	14.37	18.65	2.56	1.89	1.91	2.19
Weekly Operating Hours												
Fewer than 40	528	1,098	1,287	783	15.12	13.21	18.86	18.96	0.57	0.48	0.51	0.71
40 to 48	2,419	3,157	4,689	2,483	15.01	13.23	18.26	21.28	1.15	1.13	1.03	1.15
49 to 60	4,030	5,704	6,022	3,705	18.23	12.75	17.33	22.67	1.30	1.24	1.08	1.51
61 to 84	3,345	3,323	5,555	2,817	17.19	13.23	16.91	18.81	1.63	1.29	1.48	1.44
85 to 167	2,960	3,836	5,164	2,326	18.35	13.39	16.14	19.11	2.25	1.91	2.10	1.78
Open Continuously	8,062	4,402	8,877	6,005	16.19	11.50	14.15	18.86	2.37	1.58	1.93	2.57
Ownership and Occupancy												
Nongovernment Owned	17,306	15,018	23,198	14,154	17.42	13.14	16.48	21.46	1.67	1.20	1.30	1.62
Owner Occupied	9,772	7,513	10,288	5,979	16.83	12.78	16.42	22.55	1.66	1.22	1.31	1.64
Nonowner Occupied	7,441	7,338	12,806	8,128	18.26	13.57	16.54	20.74	1.77	1.32	1.37	1.69
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	4,038	6,503	8,397	3,964	14.53	11.90	15.53	15.75	1.60	1.41	1.48	1.54
Federal	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	1.96	Q
State	Q	Q	2,976	1,384	Q	Q	13.56	15.69	Q	Q	1.73	1.90
Local	2,483	2,927	4,399	2,039	14.31	11.65	17.24	16.93	1.46	1.00	1.29	1.32
Vacancy Status												
Completely Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	5,398	4,070	5,030	3,125	18.16	12.63	16.66	19.01	1.73	1.30	1.24	1.50
Not At All Vacant	15,731	17,136	26,443	14,893	16.36	12.79	16.14	20.11	1.70	1.32	1.41	1.68
Number of Establishments												
One	13,370	16,206	22,598	12,980	15.89	12.84	16.44	18.83	1.66	1.31	1.33	1.67
2 to 5	4,318	3,711	5,052	2,949	17.66	12.75	15.60	22.17	1.72	1.32	1.35	1.55
6 to 10	1,019	605	1,184	593	17.51	10.77	15.58	23.58	1.78	1.19	2.15	1.81
11 to 20	Q	Q	907	Q	Q	Q	14.70	Q	Q	Q	1.54	Q
More than 20	Q	Q	1,740	Q	Q	Q	16.51	Q	Q	Q	1.72	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

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Table C6. Expenditures by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Expenditures (million dollars)				Sum of Major Fuel Expenditures (dollars)							
					per Million Btu				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60
Predominant Exterior Wall Material												
Brick, Stone or Stucco	11,983	12,651	16,070	7,694	15.57	12.59	15.93	19.11	1.65	1.37	1.39	1.62
Concrete (Block or Poured)	3,482	3,611	5,714	3,208	18.67	12.52	16.68	20.50	1.59	1.25	1.43	1.81
Concrete Panels	Q	1,877	4,661	2,967	Q	12.55	16.16	19.37	Q	1.53	1.69	1.50
Siding or Shingles	1,272	1,043	1,268	1,487	16.82	14.69	17.35	26.21	1.07	0.88	1.21	2.13
Metal Panels	2,068	1,435	2,778	1,915	19.87	15.10	16.83	19.37	1.96	0.76	0.81	1.23
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material												
Built-Up	7,382	7,284	11,161	7,318	17.85	12.44	15.79	19.37	1.81	1.38	1.50	1.66
Shingles (Not Wood)	3,288	3,353	4,131	2,793	15.88	12.98	17.53	22.97	1.63	1.05	1.24	1.69
Metal Surfacing	1,147	2,178	5,269	2,189	19.90	13.57	18.14	18.05	1.12	0.82	0.84	1.12
Synthetic or Rubber	7,735	6,210	7,637	3,243	16.54	12.88	14.85	17.54	1.88	1.40	1.78	1.73
Slate or Tile	Q	388	1,383	1,202	Q	12.88	17.48	25.73	Q	1.27	1.31	1.94
Wooden Materials	Q	Q	Q	291	Q	Q	Q	Q	Q	Q	Q	1.19
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	1.53	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)												
Any Type of Renovation												
Since 1980	8,758	6,522	6,154	4,223	16.31	11.53	14.80	17.03	1.72	1.20	1.38	1.49
Addition or Annex	2,757	2,582	2,761	1,429	14.75	10.71	14.16	13.03	1.53	1.31	1.53	1.46
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	7,113	4,939	4,245	3,324	16.97	11.60	14.92	17.72	1.80	1.27	1.37	1.52
Wall or Roof Replacement	4,422	2,702	2,595	1,934	17.01	11.72	15.15	16.76	1.65	1.21	1.39	1.50
Interior Wall												
Re-Configuration	4,296	3,448	2,812	2,575	16.20	11.71	14.00	17.09	1.73	1.33	1.45	1.71
HVAC Equipment Upgrade	5,929	4,223	3,914	2,832	17.53	11.44	14.10	16.51	1.96	1.27	1.51	1.55
Lighting Upgrade	5,917	3,880	3,025	2,911	16.21	11.51	14.09	17.29	1.77	1.27	1.45	1.64
Window Replacement	4,548	2,068	1,216	1,270	16.78	11.25	14.89	16.61	1.65	1.12	1.33	1.51
Plumbing System Upgrade	4,289	2,481	2,007	2,188	16.46	11.54	13.53	17.60	1.71	1.31	1.47	1.60
Insulation Upgrade	2,398	1,424	1,257	789	17.33	12.35	15.02	18.21	1.75	1.18	1.47	1.37
Other Renovation	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	6,070	6,398	6,178	4,545	15.57	12.53	17.05	20.78	1.39	1.12	1.13	1.43
Building Newer than 1980	6,516	8,601	19,263	9,350	18.93	14.02	16.46	21.03	1.89	1.45	1.42	1.77
Energy Sources (more than one may apply)												
Electricity	21,344	21,518	31,595	18,118	16.79	12.74	16.22	19.88	1.67	1.29	1.39	1.64
Natural Gas	16,336	17,202	20,764	13,159	16.38	12.47	14.94	18.13	1.78	1.31	1.56	1.68
Fuel Oil	9,930	4,397	6,953	4,625	15.62	11.30	14.24	18.75	1.63	1.55	1.69	2.18
District Heat	Q	Q	Q	Q	Q	Q	13.30	Q	Q	Q	2.44	Q
District Chilled Water	Q	Q	2,629	Q	Q	Q	13.04	Q	Q	Q	2.29	Q
Propane	1,606	2,729	2,488	2,601	16.45	12.91	16.75	20.49	1.19	1.25	1.05	2.22
Other	Q	599	551	Q	Q	12.59	Q	Q	Q	1.19	1.80	Q

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Table C6. Expenditures by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Expenditures (million dollars)				Sum of Major Fuel Expenditures (dollars)							
					per Million Btu				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60
Space-Heating Energy Sources (more than one may apply)												
Electricity	8,456	7,487	17,900	7,894	19.05	13.68	17.67	21.39	1.92	1.20	1.37	1.61
Natural Gas	12,966	15,164	15,939	10,889	16.66	12.36	14.74	18.29	1.79	1.25	1.49	1.59
Fuel Oil	4,722	1,105	1,196	Q	13.18	10.24	13.00	Q	1.20	1.21	1.33	Q
District Heat	Q	Q	Q	Q	Q	Q	13.21	Q	Q	Q	2.49	Q
Propane	Q	519	1,220	Q	Q	19.13	17.40	Q	Q	0.64	1.02	Q
Other	Q	215	Q	Q	Q	Q	Q	Q	Q	0.79	Q	Q
Primary Space-Heating Energy Source												
Electricity	2,318	3,353	11,722	4,618	23.46	16.36	19.67	24.43	1.85	1.32	1.29	1.48
Natural Gas	11,229	13,617	13,826	9,525	16.59	12.24	14.55	17.62	1.74	1.20	1.49	1.61
Fuel Oil	3,278	Q	Q	Q	13.65	Q	Q	Q	1.01	Q	Q	Q
District Heat	Q	Q	Q	Q	Q	Q	13.27	Q	Q	Q	2.50	Q
Propane	Q	396	485	Q	Q	21.94	21.82	37.59	Q	0.70	0.72	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling Energy Sources (more than one may apply)												
Electricity	18,271	17,938	29,097	16,172	17.01	12.93	16.47	20.41	1.76	1.30	1.41	1.70
Natural Gas	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Chilled Water	Q	Q	2,629	Q	Q	Q	13.04	Q	Q	Q	2.29	Q
Water-Heating Energy Sources (more than one may apply)												
Electricity	7,228	7,602	15,995	6,082	17.88	13.47	17.60	22.72	1.41	1.17	1.35	1.52
Natural Gas	10,768	11,529	14,522	10,791	16.31	12.24	14.44	18.05	1.92	1.31	1.75	1.76
Fuel Oil	2,025	Q	Q	Q	13.07	Q	Q	Q	1.31	Q	Q	Q
District Heat	Q	Q	Q	Q	Q	Q	13.66	Q	Q	Q	2.45	Q
Propane	Q	Q	500	Q	Q	15.90	18.42	Q	Q	0.68	0.93	Q
Cooking Energy Sources (more than one may apply)												
Electricity	5,129	5,433	9,274	3,786	16.29	12.09	15.50	17.48	2.06	1.44	1.89	1.91
Natural Gas	6,991	6,263	11,058	5,131	15.25	11.64	14.29	16.92	1.95	1.58	2.02	2.13
Propane	466	Q	584	Q	16.83	Q	17.45	Q	1.18	Q	1.30	Q
Energy End Uses (more than one may apply)												
Buildings with Space Heating	21,201	21,367	30,483	16,563	16.77	12.70	16.04	19.29	1.68	1.31	1.45	1.64
Buildings with Cooling	19,935	19,466	31,209	17,129	17.04	12.88	16.20	19.99	1.82	1.34	1.45	1.72
Buildings with Water Heating	20,407	19,598	29,918	17,295	16.82	12.75	16.01	19.67	1.73	1.31	1.50	1.76
Buildings with Cooking	9,562	8,772	14,691	7,241	15.48	12.01	15.19	18.23	1.91	1.50	1.86	2.08
Buildings with Manufacturing	1,485	870	624	Q	17.65	12.06	14.86	17.30	1.47	1.09	0.97	1.42
Buildings with Electricity Generation	7,871	5,766	7,028	4,756	17.23	11.84	14.19	18.75	2.43	1.74	1.75	2.12
Percent of Floorspace Heated												
Not Heated	Q	153	1,112	1,554	Q	21.19	23.22	29.47	Q	0.20	0.45	1.29
1 to 50	1,008	794	2,185	1,614	17.74	14.10	18.12	24.91	0.73	0.70	0.77	1.08
51 to 99	2,404	2,167	4,190	3,211	16.02	12.29	16.56	19.21	1.56	1.25	1.45	1.65
100	17,789	18,407	24,109	11,738	16.83	12.70	15.79	18.74	1.84	1.37	1.58	1.76

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Table C6. Expenditures by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Expenditures (million dollars)				Sum of Major Fuel Expenditures (dollars)							
					per Million Btu				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60
Percent of Floorspace Cooled												
Not Cooled	1,409	2,055	386	989	13.90	11.50	17.92	18.21	0.72	0.79	0.20	0.73
1 to 50	4,827	4,108	3,503	3,065	14.88	12.22	16.86	19.45	1.13	0.86	0.71	1.15
51 to 99	6,603	5,439	6,151	4,253	17.52	12.50	16.28	19.08	2.13	1.45	1.58	1.74
100	8,505	9,919	21,556	9,811	18.16	13.41	16.07	20.59	2.37	1.66	1.69	2.02
Percent Lit When Open												
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	2,378	2,236	2,411	1,574	15.10	12.54	18.16	21.94	0.86	0.81	0.76	1.04
51 to 99	7,274	6,631	8,536	5,813	17.09	12.90	16.60	20.61	2.02	1.25	1.39	1.79
100	11,536	12,338	20,429	10,654	17.01	12.72	15.86	19.28	1.91	1.59	1.59	1.75
Building Never Open/ Electricity Not Used	Q	301	Q	Q	Q	Q	Q	Q	Q	0.25	Q	Q
Percent Lit When Closed												
Zero	3,294	5,545	5,920	3,549	17.39	12.78	17.77	20.20	1.17	1.07	0.94	1.14
1 to 50	9,231	10,434	15,141	8,206	17.03	13.20	16.93	20.55	1.47	1.26	1.37	1.53
51 to 100	Q	1,138	1,657	Q	Q	13.87	17.70	Q	Q	2.28	1.64	Q
Building Never Closed/ Electricity Not Used	8,062	4,405	8,878	6,005	16.19	11.50	14.15	18.86	2.32	1.41	1.72	2.30
Heating Equipment (more than one may apply)												
Heat Pumps	3,282	1,298	6,729	2,941	18.52	13.47	17.04	21.57	2.71	1.23	1.36	1.84
Packaged Heat Pumps	1,938	907	4,454	2,030	Q	13.26	17.36	20.71	2.60	1.23	1.52	1.97
Split-System Heat Pumps	Q	Q	2,201	738	Q	Q	17.37	24.40	Q	Q	1.18	2.01
Individual Room Heat Pumps	Q	Q	1,596	667	Q	Q	15.87	19.81	Q	Q	1.28	1.24
Furnaces	4,758	8,025	6,516	4,190	17.28	13.46	16.42	18.64	1.32	1.11	1.14	1.36
Individual Space Heaters	4,626	4,368	4,549	2,421	17.62	12.87	16.49	16.60	1.66	1.05	1.26	1.22
District Heat	Q	Q	Q	Q	Q	Q	13.21	Q	Q	Q	2.49	Q
Boilers	9,785	7,454	7,486	6,327	14.81	11.37	13.38	17.19	1.57	1.21	1.70	1.73
Packaged Heating Units	6,770	5,282	12,272	5,578	18.57	13.17	17.00	23.17	2.32	1.44	1.51	1.68
Other	Q	1,048	1,508	593	Q	14.09	17.78	18.23	Q	1.28	1.09	1.23
Cooling Equipment (more than one may apply)												
Residential-Type Central												
Air Conditioners	3,882	4,378	4,419	1,762	16.38	12.78	17.36	19.65	1.62	1.21	1.15	1.49
Heat Pumps	3,376	1,313	6,856	3,194	18.49	13.21	16.90	21.37	2.66	1.23	1.39	1.79
Packaged Heat Pumps	2,019	944	4,417	1,976	Q	13.07	17.33	20.41	2.56	1.24	1.55	1.92
Split-System Heat Pumps	Q	Q	2,271	771	Q	Q	17.24	23.98	Q	Q	1.22	1.91
Individual Room Heat Pumps	Q	Q	1,690	982	Q	Q	15.67	20.08	Q	Q	1.31	1.34
Individual Air Conditioners	5,230	3,744	4,391	2,811	14.87	11.69	16.16	20.67	1.42	1.07	1.21	1.61
District Chilled Water	Q	Q	2,629	Q	Q	Q	13.04	Q	Q	Q	2.29	Q
Central Chillers	4,731	4,571	8,574	4,572	16.10	11.32	14.28	19.61	2.55	1.61	1.77	2.19
Packaged Air Conditioning												
Units	11,093	11,024	14,884	9,330	16.87	12.95	16.59	20.42	1.85	1.36	1.43	1.70
Swamp Coolers	Q	Q	Q	2,049	Q	Q	Q	15.26	Q	Q	Q	1.53
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)												
Heating	5,572	5,905	5,972	4,093	18.33	12.80	16.15	17.64	1.40	1.17	1.24	1.58
Cooling	9,227	7,399	8,366	5,396	17.26	12.39	16.03	18.28	1.69	1.29	1.30	1.60

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Table C6. Expenditures by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Expenditures (million dollars)				Sum of Major Fuel Expenditures (dollars)							
					per Million Btu				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60
Water Heating Equipment												
Centralized System	13,758	13,278	17,757	9,976	16.61	13.28	16.23	19.56	1.77	1.37	1.54	1.77
Distributed System	3,187	2,962	5,419	2,827	17.78	13.01	17.38	24.21	1.37	1.11	1.19	1.43
Combination of Centralized and Distributed System	3,463	3,358	6,742	4,493	16.83	10.84	14.57	17.80	2.04	1.33	1.77	2.02
Lighting Equipment Types (more than one may apply)												
Incandescent	14,219	14,319	20,589	11,232	16.53	12.65	15.60	18.59	1.76	1.30	1.58	1.75
Standard Fluorescent	20,666	20,834	30,464	17,662	16.80	12.73	16.15	19.81	1.70	1.33	1.44	1.67
Compact Fluorescent	12,479	10,498	15,934	10,660	16.76	12.54	14.88	19.17	2.05	1.54	1.79	1.85
High Intensity Discharge	8,290	8,871	9,455	5,384	16.86	11.86	15.25	19.10	1.89	1.34	1.52	1.58
Halogen	7,455	6,817	10,142	5,804	17.33	11.90	15.03	19.13	2.08	1.46	1.64	1.78
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)^a												
Any Refrigeration.....	18,988	18,548	29,141	15,880	16.72	12.74	16.03	19.75	1.75	1.32	1.53	1.77
Commercial Refrigeration	12,287	10,930	18,876	8,843	16.20	12.38	15.41	18.86	2.07	1.53	1.96	2.17
Walk-In Units	9,630	8,580	16,164	7,438	16.38	12.23	15.07	18.41	2.16	1.65	2.16	2.37
Cases or Cabinets	10,231	8,075	15,591	7,567	15.97	12.34	15.50	18.83	2.27	1.62	2.03	2.31
Residential-Type Units	13,108	13,081	17,727	10,192	16.00	12.76	16.08	19.63	1.58	1.21	1.35	1.53
Vending Machines	12,657	12,442	20,697	10,495	16.11	12.16	15.38	18.52	1.93	1.32	1.53	1.80
No Refrigeration	2,355	2,973	2,454	2,238	17.38	12.71	18.81	20.88	1.14	0.99	0.56	0.95
Office Equipment (more than one may apply)												
Computers	20,062	19,381	28,855	17,109	16.75	12.70	16.09	19.93	1.74	1.34	1.46	1.71
With Flat Screen Monitors	12,641	9,288	15,413	9,362	16.90	12.39	15.33	20.23	2.11	1.46	1.69	1.90
Dedicated Servers	15,313	13,036	19,117	11,911	16.84	12.69	15.39	20.51	1.88	1.41	1.51	1.89
Laser Printers	11,298	10,344	15,714	10,523	16.49	12.40	16.27	20.09	1.59	1.22	1.36	1.79
Inkjet Printers	12,502	11,824	17,974	10,220	17.40	12.93	15.58	19.79	1.95	1.42	1.57	1.70
FAX Machines	19,559	17,648	27,796	15,899	16.79	12.69	15.91	20.16	1.75	1.33	1.48	1.74
Photocopiers	17,464	15,408	23,166	14,041	16.61	12.47	15.66	20.08	1.77	1.30	1.42	1.71
Number of Computers												
None	1,282	2,140	2,740	1,009	17.45	13.06	17.72	19.18	0.92	0.80	0.73	0.76
1 to 4	3,089	4,589	6,663	2,916	16.88	14.05	18.35	20.45	1.48	1.23	1.51	1.36
5 to 9	1,604	2,339	2,749	1,957	18.19	12.10	18.08	17.45	1.00	1.21	1.08	1.78
10 to 19	1,909	2,222	2,518	1,939	17.06	13.22	17.35	21.58	1.45	1.32	1.05	1.62
20 to 49	2,555	2,409	3,784	3,030	17.53	12.99	15.15	24.06	1.70	1.25	1.56	1.95
50 to 99	1,548	1,625	3,155	1,561	15.45	12.23	15.23	21.52	Q	1.55	1.50	1.46
100 to 249	2,771	2,401	3,466	2,153	16.02	12.15	15.60	17.78	2.20	1.30	1.53	1.63
250 or More	6,586	3,797	6,521	3,552	16.65	11.80	14.34	18.27	2.54	1.72	1.83	2.23
Number of Dedicated Servers												
None	6,031	8,485	12,479	6,207	16.68	12.81	17.68	18.79	1.27	1.08	1.15	1.24
1 to 4	8,340	8,382	11,294	6,975	16.11	12.89	15.80	19.89	1.59	1.28	1.38	1.70
5 to 9	Q	1,468	2,203	1,525	Q	12.84	15.70	24.94	Q	1.52	1.68	2.27
10 to 19	Q	1,338	2,216	1,110	Q	10.80	14.27	20.93	Q	1.73	1.97	2.01
20 to 49	Q	Q	2,138	Q	Q	Q	15.11	Q	Q	Q	1.69	Q
50 or More	Q	1,155	1,266	Q	Q	13.40	14.01	Q	Q	1.89	1.72	Q

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Table C6. Expenditures by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Expenditures (million dollars)				Sum of Major Fuel Expenditures (dollars)							
					per Million Btu				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60
Number of Photocopiers												
None	3,880	6,113	8,429	4,077	17.64	13.47	17.97	19.24	1.29	1.17	1.17	1.31
One	3,833	4,733	6,054	3,816	16.57	12.92	17.81	19.83	1.27	1.12	1.11	1.39
2 to 4	4,517	4,954	7,500	4,010	16.37	12.89	15.57	20.84	1.53	1.23	1.36	1.55
5 to 9	2,780	1,874	3,016	1,771	15.73	11.55	15.31	23.34	1.83	1.34	1.69	2.17
10 or More	6,334	3,848	6,596	4,444	17.26	11.91	14.32	18.63	2.63	1.75	1.86	2.19
Energy-Related Space Functions (more than one may apply)												
Commercial Food Preparation	9,562	8,772	14,690	7,229	15.48	12.01	15.19	18.28	1.91	1.50	1.86	2.08
Activities with Large Amounts of Hot Water	7,641	7,812	12,288	7,163	15.10	11.44	14.36	17.02	1.95	1.50	1.78	2.09
Separate Computer Area	12,390	8,956	14,183	9,023	16.24	12.24	15.04	19.71	2.09	1.38	1.51	1.78
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System	8,946	7,873	12,510	6,925	17.05	12.15	14.81	19.11	2.37	1.57	1.70	2.00
Economizer Cycle	10,399	9,370	11,888	7,936	17.71	12.46	14.62	18.19	2.51	1.59	1.79	1.78
HVAC Maintenance	19,443	18,283	27,254	16,349	16.77	12.55	15.74	19.89	1.76	1.39	1.54	1.75
Energy Management and Control System (EMCS)	7,348	5,459	9,285	5,554	17.54	11.87	15.25	18.83	2.45	1.44	1.60	1.84
Window and Interior Lighting Features (more than one may apply)												
Multipaned Windows	15,717	16,103	18,428	9,108	16.55	12.85	15.39	17.21	1.69	1.37	1.50	1.65
Tinted Window Glass	10,569	10,767	17,975	10,257	16.82	12.78	15.93	20.58	2.13	1.47	1.50	1.81
Reflective Window Glass	3,661	3,059	5,149	2,545	18.50	12.26	15.14	18.28	2.20	1.41	1.71	1.49
External Overhangs or Awnings	5,115	5,826	10,769	6,539	17.21	13.20	16.11	19.85	1.90	1.38	1.59	1.84
Skylights or Atriums	4,694	4,490	5,557	4,543	15.64	11.81	14.65	18.37	1.62	1.37	1.42	1.84
Daylighting Sensors	Q	1,336	1,173	2,945	Q	11.95	14.78	21.21	Q	1.64	1.74	3.10
Specular Reflectors	11,394	11,334	12,462	8,276	16.89	12.18	15.35	20.10	1.95	1.47	1.58	1.76
Electronic Ballasts	17,031	17,658	24,971	15,213	16.99	12.59	15.81	20.00	1.83	1.40	1.52	1.78
Energy Management and Control System (EMCS) For Lighting	Q	1,975	2,339	2,284	Q	12.21	15.81	21.09	Q	1.53	1.59	1.95
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)^a												
Heating	15,363	12,897	19,642	12,391	16.67	12.79	16.41	20.20	1.61	1.18	1.34	1.62
Cooling	15,068	12,931	21,644	13,228	17.06	12.90	16.53	20.39	1.71	1.24	1.34	1.69
Lighting	12,402	16,515	21,641	11,755	17.14	13.11	17.18	20.43	1.42	1.28	1.26	1.42
Office Equipment	5,758	6,293	7,457	4,407	16.24	12.68	18.58	20.66	1.35	1.16	1.16	1.34

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Table C6. Expenditures by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Expenditures (million dollars)				Sum of Major Fuel Expenditures (dollars)							
					per Million Btu				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings*	21,344	21,521	31,595	18,118	16.79	12.74	16.22	19.88	1.65	1.26	1.35	1.60

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>.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

^a The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: • Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. • HVAC = Heating, Ventilation, and Air Conditioning. • Due to rounding, data may not sum to totals.

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

Table C7. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 1

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
Building Floorspace (Square Feet)									
1,001 to 5,000	33	85	146	360	666	974	91.2	128.1	149.7
5,001 to 10,000	Q	64	73	359	764	843	Q	83.7	86.8
10,001 to 25,000	Q	115	163	553	1,419	1,934	Q	81.2	84.3
25,001 to 50,000	Q	74	140	347	944	1,618	Q	78.7	86.8
50,001 to 100,000	Q	134	148	516	1,524	1,618	Q	87.8	91.5
100,001 to 200,000	Q	150	203	414	1,703	1,682	Q	87.9	120.8
200,001 to 500,000	Q	177	214	Q	1,673	1,801	Q	105.8	118.8
Over 500,000	Q	Q	Q	Q	1,248	1,126	Q	Q	Q
Principal Building Activity									
Education	Q	143	175	Q	1,384	1,990	Q	103.1	87.7
Food Sales	Q	Q	Q	Q	Q	218	Q	Q	Q
Food Service	Q	Q	68	Q	127	248	Q	Q	276.6
Health Care	Q	102	122	Q	464	551	Q	219.0	220.7
Inpatient	Q	Q	Q	Q	310	316	Q	Q	Q
Outpatient	Q	Q	Q	Q	Q	235	Q	Q	Q
Lodging	Q	Q	70	374	797	548	Q	Q	126.7
Retail (Other Than Mall).....	Q	30	59	Q	419	544	Q	72.3	108.4
Office	66	239	263	578	2,434	2,190	114.6	98.0	120.1
Public Assembly	Q	Q	80	Q	769	635	Q	Q	126.8
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	Q	28	41	Q	474	720	Q	58.1	56.4
Service	Q	45	78	Q	620	775	Q	72.0	100.8
Warehouse and Storage	Q	55	175	Q	1,112	2,023	Q	49.2	86.4
Other	Q	Q	Q	Q	501	248	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	791	Q	Q	Q
Year Constructed									
Before 1920	38	76	84	444	962	999	86.7	79.0	84.5
1920 to 1945	Q	180	216	611	1,893	1,603	Q	95.0	135.0
1946 to 1959	Q	168	125	Q	1,745	1,454	Q	96.0	86.2
1960 to 1969	Q	150	134	Q	1,393	1,380	Q	107.4	97.0
1970 to 1979	Q	145	235	450	1,273	2,198	Q	114.2	107.1
1980 to 1989	Q	118	179	265	1,109	1,486	Q	106.4	120.8
1990 to 1999	Q	87	202	Q	1,130	1,655	Q	77.1	122.1
2000 to 2003	Q	Q	76	Q	435	820	Q	Q	93.3
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	61	Q	313	Q	1,445	3,050	62.8	94.2	102.8
5,500-7,000 HDD	232	293	940	1,993	3,404	8,545	116.6	85.9	110.0
4,000-5,499 HDD	N	549	N	N	5,092	N	N	107.8	N
Fewer than 4,000 HDD	N	N	N	N	N	N	N	N	N
2,000 CDD or More and --									
Fewer than 4,000 HDD	N	N	N	N	N	N	N	N	N
Number of Floors									
One	55	216	416	545	2,606	3,877	100.4	83.0	107.3
Two	49	205	283	742	2,288	3,251	65.6	89.7	87.0
Three	Q	113	172	755	1,327	1,881	Q	85.2	91.4
Four to Nine	129	239	312	793	2,210	2,081	163.1	108.0	149.7
Ten or More	Q	Q	71	Q	1,510	506	Q	Q	141.2

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Table C7. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 1

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
Elevators and Escalators (more than one may apply)									
Any Elevators	164	559	624	1,375	4,762	5,050	119.3	117.3	123.5
Number of Elevators									
One	Q	111	210	500	1,086	2,224	Q	102.2	94.3
Two to Five	Q	219	270	723	2,248	2,060	Q	97.3	131.3
Six or More	Q	229	144	Q	1,428	766	Q	160.4	187.3
Any Escalators	Q	Q	Q	Q	494	Q	Q	Q	Q
Number of Workers (main shift)									
Fewer than 5	58	95	264	776	1,599	3,195	74.3	59.5	82.5
5 to 9	Q	64	85	401	684	866	Q	94.3	98.3
10 to 19	Q	102	122	409	1,463	1,214	Q	69.5	100.3
20 to 49	Q	168	210	350	1,964	1,980	Q	85.3	106.2
50 to 99	Q	126	158	Q	1,110	1,570	Q	113.3	100.7
100 to 249	Q	Q	163	Q	1,034	1,212	Q	Q	134.1
250 or More	Q	306	252	Q	2,087	1,558	Q	146.7	161.8
Weekly Operating Hours									
Fewer than 40	Q	28	65	Q	725	1,600	Q	38.3	40.4
40 to 48	Q	123	184	440	1,672	1,746	86.5	73.7	105.2
49 to 60	45	176	348	837	2,261	3,340	53.7	77.9	104.1
61 to 84	Q	140	179	494	1,554	1,737	Q	90.4	103.2
85 to 167	Q	135	218	Q	1,078	1,450	Q	125.6	150.0
Open Continuously	Q	375	261	756	2,651	1,721	163.2	141.3	151.4
Ownership and Occupancy									
Nongovernment Owned	215	778	799	2,283	8,106	8,015	94.2	96.0	99.7
Owner Occupied	151	429	401	1,587	4,317	3,755	95.2	99.5	106.7
Nonowner Occupied	64	344	385	669	3,535	3,597	95.4	97.2	107.0
Unoccupied	Q	Q	Q	Q	Q	663	Q	Q	Q
Government Owned	78	199	454	682	1,835	3,580	115.1	108.7	126.9
Federal	Q	Q	Q	Q	Q	Q	Q	Q	Q
State	Q	Q	Q	Q	386	536	Q	Q	Q
Local	Q	145	202	346	1,360	2,199	Q	106.7	91.7
Vacancy Status									
Completely Vacant	Q	Q	Q	Q	Q	756	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	94	204	261	1,031	2,086	2,255	90.7	97.6	115.6
Not At All Vacant	199	763	973	1,795	7,475	8,549	110.6	102.1	113.9
Number of Establishments									
One	198	643	952	1,784	6,277	8,315	111.2	102.4	114.5
2 to 5	51	193	202	615	1,901	1,833	83.1	101.7	110.5
6 to 10	Q	Q	Q	Q	411	264	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	Q	641	Q	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q	756	Q	Q	Q

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Table C7. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 1

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
Predominant Exterior Wall Material									
Brick, Stone or Stucco	166	604	812	1,541	5,707	7,166	107.7	105.8	113.4
Concrete (Block or Poured)	Q	164	180	284	1,900	1,885	Q	86.1	95.5
Concrete Panels	Q	Q	104	Q	550	855	Q	Q	121.4
Siding or Shingles	52	24	36	779	415	473	66.5	57.6	75.5
Metal Panels	Q	Q	45	Q	862	651	Q	Q	69.8
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material									
Built-Up	Q	373	448	704	3,363	3,913	Q	110.9	114.5
Shingles (Not Wood)	66	141	186	683	1,340	2,070	96.3	105.5	89.8
Metal Surfacing	Q	49	85	Q	780	1,046	Q	62.7	81.3
Synthetic or Rubber	151	317	367	1,018	3,097	3,453	148.5	102.2	106.3
Slate or Tile	Q	Q	Q	Q	398	236	Q	Q	Q
Wooden Materials	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation									
Since 1980	138	399	396	1,445	3,659	3,492	95.6	109.0	113.4
Addition or Annex	Q	162	156	Q	1,395	1,243	Q	116.3	125.7
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	95	324	302	943	3,010	2,354	100.8	107.7	128.4
Wall or Roof Replacement	71	189	158	720	1,955	1,367	98.1	96.8	115.2
Interior Wall									
Re-Configuration	73	192	220	639	1,850	1,709	114.9	103.6	128.7
HVAC Equipment Upgrade	75	263	257	739	2,287	2,136	101.7	115.0	120.6
Lighting Upgrade	92	273	240	853	2,497	1,985	107.9	109.4	120.7
Window Replacement	73	198	144	688	2,061	1,339	105.7	96.2	107.4
Plumbing System Upgrade	78	182	154	633	1,878	1,177	123.8	97.0	131.2
Insulation Upgrade	Q	100	71	356	1,014	700	Q	99.0	101.4
Other Renovation	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	70	320	399	752	3,608	4,142	93.3	88.6	96.4
Building Newer than 1980	Q	259	458	767	2,675	3,961	110.9	96.9	115.6
Energy Sources (more than one may apply)									
Electricity	294	978	1,253	2,942	9,867	11,373	99.8	99.1	110.2
Natural Gas	187	810	1,029	1,465	7,716	9,570	127.8	105.0	107.5
Fuel Oil	147	489	277	1,577	4,502	1,871	92.9	108.7	148.1
District Heat	Q	Q	Q	Q	1,082	1,420	Q	Q	Q
District Chilled Water	Q	Q	Q	Q	583	569	Q	Q	Q
Propane	53	Q	164	Q	505	Q	62.0	Q	136.7
Other	Q	Q	Q	Q	Q	283	Q	Q	Q

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Table C7. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 1

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
Space-Heating Energy Sources (more than one may apply)									
Electricity	Q	319	362	1,132	3,273	3,895	110.7	97.4	92.9
Natural Gas	153	625	899	1,198	6,041	8,758	127.7	103.5	102.7
Fuel Oil	104	254	Q	1,219	2,708	456	85.5	Q	Q
District Heat	Q	Q	Q	Q	1,015	1,420	Q	Q	Q
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Primary Space-Heating Energy Source									
Electricity	Q	87	135	Q	1,127	1,487	Q	76.8	91.1
Natural Gas	118	559	824	1,061	5,377	8,230	110.7	104.0	100.1
Fuel Oil	99	141	Q	1,161	2,089	Q	85.6	Q	Q
District Heat	Q	Q	Q	Q	970	1,319	Q	Q	Q
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling Energy Sources (more than one may apply)									
Electricity	245	829	983	1,946	8,456	9,157	126.0	98.1	107.4
Natural Gas	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Chilled Water	Q	Q	Q	Q	583	569	Q	Q	Q
Water-Heating Energy Sources (more than one may apply)									
Electricity	123	281	374	1,439	3,686	4,086	85.5	76.3	91.6
Natural Gas	Q	563	709	682	4,919	6,417	142.4	114.4	110.5
Fuel Oil	68	87	Q	590	952	Q	115.5	Q	Q
District Heat	Q	Q	Q	Q	775	588	Q	Q	Q
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooking Energy Sources (more than one may apply)									
Electricity	Q	258	352	537	1,958	2,934	Q	131.5	120.1
Natural Gas	Q	400	415	474	3,106	3,052	Q	128.9	135.9
Propane	Q	Q	Q	266	Q	Q	Q	Q	Q
Energy End Uses (more than one may apply)									
Buildings with Space Heating	292	972	1,247	2,819	9,778	11,223	103.5	99.4	111.1
Buildings with Cooling	254	916	1,100	2,021	8,932	9,790	125.7	102.5	112.4
Buildings with Water Heating	285	928	1,120	2,724	9,065	10,208	104.6	102.4	109.7
Buildings with Cooking	98	520	564	938	4,078	4,378	104.4	127.4	128.7
Buildings with Manufacturing	Q	71	44	Q	679	489	Q	105.2	90.0
Buildings with Electricity Generation	Q	385	387	567	2,678	2,558	Q	143.9	151.2
Percent of Floorspace Heated									
Not Heated	Q	Q	Q	Q	Q	372	Q	Q	Q
1 to 50	Q	41	45	Q	899	774	Q	45.1	58.2
51 to 99	Q	116	137	418	1,120	1,214	Q	103.7	113.2
100	242	816	1,065	1,913	7,758	9,235	126.3	105.1	115.3

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Table C7. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 1

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
Percent of Floorspace Cooled									
Not Cooled	39	62	153	943	1,009	1,805	41.9	61.3	84.9
1 to 50	93	232	236	922	3,349	3,186	100.8	69.2	74.2
51 to 99	Q	286	305	550	2,551	2,436	Q	112.0	125.1
100	70	398	559	550	3,033	4,169	127.5	131.3	134.1
Percent Lit When Open									
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	44	114	116	953	1,796	1,575	45.8	63.3	73.6
51 to 99	105	321	377	1,070	2,529	3,641	97.9	126.9	103.4
100	143	535	737	830	5,221	5,418	172.4	102.5	136.0
Building Never Open/ Electricity Not Used	Q	Q	Q	Q	372	946	Q	Q	Q
Percent Lit When Closed									
Zero	43	147	321	721	2,086	3,237	59.3	70.3	99.1
1 to 50	119	423	606	1,400	4,880	6,101	85.3	86.6	99.3
51 to 100	Q	Q	Q	Q	Q	Q	Q	Q	Q
Building Never Closed/ Electricity Not Used	Q	375	261	764	2,711	1,916	161.3	138.2	136.1
Heating Equipment (more than one may apply)									
Heat Pumps	Q	141	68	Q	1,019	719	Q	137.9	94.1
Packaged Heat Pumps	Q	Q	49	Q	656	541	Q	Q	91.4
Split-System Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps	Q	Q	Q	Q	430	Q	Q	Q	Q
Furnaces	82	193	393	990	2,606	4,572	83.2	74.1	85.9
Individual Space Heaters	Q	166	207	1,011	1,775	2,544	95.1	93.7	81.5
District Heat	Q	Q	Q	Q	1,000	1,420	Q	Q	Q
Boilers	159	502	499	1,465	4,763	4,466	108.4	105.4	111.7
Packaged Heating Units	110	255	294	615	2,297	2,531	178.9	110.8	116.2
Other	Q	Q	41	Q	408	434	Q	Q	94.7
Cooling Equipment (more than one may apply)									
Residential-Type Central									
Air Conditioners	Q	190	209	291	2,100	2,040	Q	90.5	102.4
Heat Pumps	Q	141	71	Q	1,008	746	Q	140.0	95.7
Packaged Heat Pumps	Q	Q	53	Q	646	563	Q	Q	93.8
Split-System Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps	Q	Q	Q	Q	430	Q	Q	Q	Q
Individual Air Conditioners	105	247	225	925	2,762	2,199	113.0	89.5	102.2
District Chilled Water	Q	Q	Q	Q	583	569	Q	Q	Q
Central Chillers	Q	240	310	383	1,469	2,074	Q	163.7	149.7
Packaged Air Conditioning									
Units	140	517	604	872	5,128	5,505	160.9	100.8	109.8
Swamp Coolers	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	317	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	70	234	320	1,013	2,961	3,273	69.3	79.0	97.9
Cooling	143	392	421	1,100	4,353	3,700	130.0	90.0	113.8

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Table C7. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 1

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
Water Heating Equipment									
Centralized System	183	645	732	1,839	5,930	6,695	99.5	108.8	109.3
Distributed System	Q	142	167	Q	1,815	1,750	Q	78.2	95.3
Combination of Centralized and Distributed System	Q	141	221	375	1,319	1,763	Q	107.0	125.5
Lighting Equipment Types (more than one may apply)									
Incandescent	218	642	810	1,996	6,105	7,211	109.3	105.2	112.4
Standard Fluorescent	282	948	1,212	2,724	9,435	10,701	103.6	100.5	113.3
Compact Fluorescent	192	553	623	1,474	4,616	4,845	130.1	119.7	128.5
High Intensity Discharge	138	354	607	1,021	3,358	5,104	135.2	105.3	119.0
Halogen	107	323	412	769	2,812	3,259	139.4	114.8	126.3
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)^a									
Any Refrigeration.....	270	866	1,063	2,474	8,367	9,538	108.9	103.5	111.4
Commercial Refrigeration	160	598	683	1,107	4,830	5,286	144.6	123.9	129.2
Walk-In Units	138	450	541	889	3,563	3,860	155.4	126.2	140.2
Cases or Cabinets	144	497	504	849	3,656	3,702	170.0	135.8	136.1
Residential-Type Units	216	603	748	2,037	6,251	7,247	106.2	96.5	103.2
Vending Machines	200	585	760	1,569	4,990	6,583	127.5	117.3	115.4
No Refrigeration	Q	112	191	490	1,574	2,056	Q	70.9	92.7
Office Equipment (more than one may apply)									
Computers	280	917	1,123	2,521	8,996	9,882	111.2	102.0	113.7
With Flat Screen Monitors	159	589	566	1,156	4,839	4,584	137.5	121.7	123.4
Dedicated Servers	202	707	754	1,656	6,486	6,456	121.9	109.1	116.8
Laser Printers	160	525	606	1,569	5,526	5,678	102.1	95.0	106.8
Inkjet Printers	151	567	663	1,204	5,211	5,817	125.7	108.8	114.0
FAX Machines	266	899	1,018	2,367	8,806	9,138	112.2	102.1	111.5
Photocopiers	230	821	914	1,869	8,024	8,273	122.9	102.4	110.5
Number of Computers									
None	13	60	130	443	945	1,712	29.5	63.9	76.0
1 to 4	62	121	245	570	1,511	2,536	108.9	80.0	96.7
5 to 9	Q	68	115	Q	1,087	1,112	Q	62.9	103.9
10 to 19	Q	82	118	329	992	1,069	Q	82.4	110.3
20 to 49	Q	110	118	322	1,182	1,196	Q	92.9	98.6
50 to 99	Q	84	95	Q	1,018	744	Q	Q	128.1
100 to 249	Q	136	142	Q	1,054	1,221	Q	128.7	115.9
250 or More	Q	316	290	439	2,151	2,005	Q	146.9	144.7
Number of Dedicated Servers									
None	92	270	500	1,308	3,455	5,139	70.0	78.2	97.2
1 to 4	109	409	433	1,028	4,219	4,202	106.2	96.8	103.1
5 to 9	Q	Q	93	Q	604	754	Q	Q	122.8
10 to 19	Q	Q	101	Q	437	647	Q	Q	156.2
20 to 49	Q	Q	Q	Q	411	Q	Q	Q	Q
50 or More	Q	Q	Q	Q	815	Q	Q	Q	Q

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Table C7. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 1

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
Number of Photocopiers									
None	64	156	339	1,095	1,917	3,322	58.3	81.4	102.1
One	52	179	242	683	2,344	2,620	76.1	76.5	92.2
2 to 4	89	187	269	643	2,302	2,745	137.9	81.4	98.1
5 to 9	Q	129	122	Q	1,250	1,013	Q	103.4	120.9
10 or More	Q	325	281	276	2,128	1,894	Q	152.9	148.2
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	98	520	564	938	4,078	4,378	104.4	127.4	128.7
Activities with Large Amounts of Hot Water	139	367	490	995	2,927	3,546	139.5	125.4	138.1
Separate Computer Area	158	605	558	1,045	4,880	4,759	151.0	124.0	117.3
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	Q	419	493	592	3,188	3,660	Q	131.5	134.8
Economizer Cycle	135	452	586	824	3,317	4,350	163.8	136.3	134.6
HVAC Maintenance	261	899	1,121	2,311	8,736	9,424	112.8	102.9	119.0
Energy Management and Control System (EMCS)	Q	350	356	429	2,573	2,835	Q	135.9	125.7
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	243	707	919	2,307	7,001	8,023	105.2	101.0	114.6
Tinted Window Glass	Q	495	663	803	4,155	5,393	165.4	119.2	123.0
Reflective Window Glass	Q	159	180	Q	1,436	1,454	Q	110.4	124.1
External Overhangs or Awnings	Q	237	294	577	2,110	2,537	Q	112.2	115.8
Skylights or Atriums	Q	255	287	476	2,416	2,338	Q	105.4	122.8
Daylighting Sensors	Q	Q	89	Q	319	608	Q	Q	146.7
Specular Reflectors	157	517	741	1,390	4,444	5,813	112.9	116.4	127.5
Electronic Ballasts	237	765	1,039	2,162	7,125	8,623	109.8	107.4	120.5
Energy Management and Control System (EMCS) For Lighting	Q	Q	131	Q	758	988	Q	Q	133.1

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Table C7. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 1

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	294	978	1,254	2,964	9,941	11,595	99.0	98.3	108.1
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)^a									
Heating	165	757	742	1,768	7,751	7,595	93.3	97.6	97.7
Cooling	160	723	738	1,456	7,356	7,147	109.8	98.3	103.2
Lighting	165	559	961	2,067	6,639	8,846	79.7	84.2	108.6
Office Equipment	74	280	363	847	3,422	3,645	88.0	81.8	99.5

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>.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

^a The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: • Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. • HVAC = Heating, Ventilation, and Air Conditioning. • Due to rounding, data may not sum to totals.

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

Table C8. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 2

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
Building Floorspace (Square Feet)									
1,001 to 5,000	60	116	36	922	1,207	538	64.9	96.5	67.8
5,001 to 10,000	44	103	Q	722	1,387	393	60.5	74.0	Q
10,001 to 25,000	65	126	Q	1,164	2,240	810	55.9	56.4	Q
25,001 to 50,000	107	112	Q	949	1,672	498	112.5	67.3	Q
50,001 to 100,000	64	123	59	642	1,470	650	99.0	83.4	91.3
100,001 to 200,000	49	237	Q	614	2,087	Q	79.8	113.5	Q
200,001 to 500,000	Q	110	Q	395	1,072	Q	Q	102.2	Q
Over 500,000	Q	137	Q	Q	1,123	Q	Q	122.1	Q
Principal Building Activity									
Education	45	198	Q	552	2,445	341	81.0	80.9	Q
Food Sales	Q	Q	Q	Q	223	Q	Q	Q	Q
Food Service	Q	112	Q	206	433	99	Q	259.2	Q
Health Care	Q	120	Q	247	749	219	Q	160.1	Q
Inpatient	Q	Q	Q	Q	469	Q	Q	Q	Q
Outpatient	Q	Q	Q	Q	280	Q	Q	Q	Q
Lodging	55	91	Q	595	939	368	92.6	96.8	Q
Retail (Other Than Mall).....	31	66	Q	337	897	353	93.6	73.4	Q
Office	62	155	50	799	1,958	481	77.6	79.3	103.2
Public Assembly	Q	42	Q	377	440	Q	Q	94.3	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	18	29	Q	395	721	310	46.2	39.6	Q
Service	31	Q	Q	514	753	307	61.3	73.5	Q
Warehouse and Storage	51	66	Q	994	1,836	390	51.0	35.7	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	252	Q	Q	Q	Q
Year Constructed									
Before 1920	39	Q	Q	553	Q	Q	70.2	Q	Q
1920 to 1945	Q	40	Q	496	650	300	Q	61.5	Q
1946 to 1959	39	88	Q	574	1,097	239	68.5	80.3	Q
1960 to 1969	71	98	Q	850	1,379	483	83.5	71.4	Q
1970 to 1979	87	152	64	1,039	1,464	789	83.3	103.6	80.7
1980 to 1989	41	221	Q	463	2,403	431	89.5	91.8	142.3
1990 to 1999	83	327	59	1,091	3,652	766	76.5	89.4	76.6
2000 to 2003	30	113	Q	420	1,272	342	72.6	89.0	Q
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	225	N	N	2,565	N	N	87.9	N	N
5,500-7,000 HDD	98	N	N	Q	N	N	74.1	N	N
4,000-5,499 HDD	113	264	Q	1,597	2,616	Q	70.5	100.8	112.6
Fewer than 4,000 HDD	N	564	Q	N	6,422	Q	N	87.8	77.6
2,000 CDD or More and --									
Fewer than 4,000 HDD	N	237	Q	N	3,220	Q	N	73.5	99.5
Number of Floors									
One	149	370	102	2,227	5,753	1,641	66.9	64.3	62.1
Two	146	215	104	1,926	2,700	864	76.0	79.7	120.8
Three	64	99	Q	703	1,043	442	91.6	95.0	Q
Four to Nine	69	284	58	579	2,003	355	118.4	142.0	163.0
Ten or More	Q	95	Q	Q	759	Q	Q	125.3	Q

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Table C8. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 2

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
Elevators and Escalators (more than one may apply)									
Any Elevators	169	549	134	1,627	4,612	923	104.1	119.1	145.0
Number of Elevators									
One	79	115	Q	860	1,475	369	91.5	78.0	Q
Two to Five	64	246	Q	644	1,900	386	98.6	129.6	Q
Six or More	Q	188	Q	Q	1,237	168	Q	152.0	Q
Any Escalators	Q	Q	Q	Q	Q	Q	Q	Q	Q
Number of Workers (main shift)									
Fewer than 5	77	115	40	1,763	2,517	1,107	43.9	45.7	35.8
5 to 9	46	75	36	598	1,284	476	76.5	58.5	74.8
10 to 19	60	97	24	867	1,392	350	69.6	69.9	69.1
20 to 49	99	152	97	876	1,773	701	113.6	86.0	138.6
50 to 99	73	128	Q	742	1,611	Q	98.3	79.7	Q
100 to 249	Q	239	Q	397	1,737	Q	Q	137.8	Q
250 or More	Q	256	Q	242	1,943	Q	Q	131.9	Q
Weekly Operating Hours									
Fewer than 40	18	41	9	700	1,211	416	26.4	34.0	22.5
40 to 48	55	126	61	1,036	2,109	770	53.1	59.5	78.6
49 to 60	100	165	Q	1,273	3,074	610	78.2	53.7	92.7
61 to 84	72	171	57	845	1,926	600	84.9	88.6	94.2
85 to 167	Q	197	Q	558	1,402	Q	Q	140.8	Q
Open Continuously	122	364	108	1,073	2,536	823	114.0	143.6	131.2
Ownership and Occupancy									
Nongovernment Owned	344	748	200	4,455	9,049	2,453	77.2	82.6	81.7
Owner Occupied	187	365	72	2,416	4,141	967	77.4	88.1	74.2
Nonowner Occupied	156	378	128	1,942	4,678	1,450	80.4	80.8	88.5
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	92	316	109	1,030	3,209	940	89.5	98.5	115.8
Federal	Q	Q	Q	Q	Q	Q	Q	126.6	Q
State	Q	96	Q	Q	726	507	Q	132.9	Q
Local	50	168	28	726	2,078	376	68.4	81.0	75.2
Vacancy Status									
Completely Vacant	Q	Q	Q	Q	241	Q	Q	Q	Q
Mostly Vacant	Q	Q	N	Q	Q	Q	Q	Q	N
Partially Vacant	62	137	26	864	1,980	397	71.5	69.3	64.8
Not At All Vacant	366	920	283	4,427	10,026	2,898	82.7	91.8	97.7
Number of Establishments									
One	310	752	223	4,044	8,902	2,707	76.7	84.5	82.4
2 to 5	89	193	Q	970	2,139	385	91.3	90.1	Q
6 to 10	Q	Q	Q	Q	Q	Q	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	Q	320	Q	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	241	Q	Q	Q	Q

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Table C8. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 2

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
Predominant Exterior Wall Material									
Brick, Stone or Stucco	192	514	177	2,082	6,051	1,824	92.4	84.9	97.1
Concrete (Block or Poured)	108	190	73	1,002	2,371	641	108.2	80.1	113.5
Concrete Panels	Q	189	Q	375	1,416	Q	Q	133.6	Q
Siding or Shingles	35	41	Q	711	649	Q	49.7	62.6	Q
Metal Panels	50	97	Q	1,229	1,450	616	40.4	66.6	Q
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	N	Q	Q	N	Q	Q	N
Predominant Roof Material									
Built-Up	137	373	119	1,349	4,125	827	101.8	90.4	143.5
Shingles (Not Wood)	72	132	48	1,129	1,889	638	64.1	69.7	75.1
Metal Surfacing	75	137	60	1,616	2,557	1,116	46.7	53.7	53.9
Synthetic or Rubber	115	292	70	990	2,449	643	116.3	119.2	108.5
Slate or Tile	Q	47	Q	Q	624	Q	Q	74.8	Q
Wooden Materials	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete	Q	Q	N	Q	Q	N	Q	Q	N
Other	Q	Q	N	Q	Q	N	Q	Q	N
No One Major Type	Q	Q	N	Q	Q	N	Q	Q	N
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation									
Since 1980	169	231	85	1,945	2,304	884	87.1	100.3	96.6
Addition or Annex	85	91	46	727	884	392	116.7	102.9	118.3
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	124	141	70	1,525	1,497	677	81.1	94.4	103.5
Wall or Roof Replacement	73	100	36	871	961	340	83.8	103.6	105.7
Interior Wall									
Re-Configuration	75	107	Q	877	1,036	334	85.0	103.7	Q
HVAC Equipment Upgrade	112	161	63	1,197	1,559	464	93.3	103.1	135.6
Lighting Upgrade	97	111	60	1,074	1,186	440	90.7	93.5	137.3
Window Replacement	40	43	Q	508	505	Q	78.7	85.5	Q
Plumbing System Upgrade	61	79	Q	721	782	262	84.0	101.6	Q
Insulation Upgrade	44	Q	Q	512	468	Q	86.6	Q	Q
Other Renovation	N	Q	Q	N	Q	Q	N	Q	Q
No Renovations Since 1980	111	172	77	1,566	2,626	971	71.1	65.7	78.8
Building Newer than 1980	155	660	147	1,974	7,327	1,538	78.7	90.1	95.8
Energy Sources (more than one may apply)									
Electricity	436	1,064	309	5,328	12,097	3,220	81.9	88.0	96.0
Natural Gas	350	693	241	3,593	6,326	2,281	97.4	109.6	105.6
Fuel Oil	112	291	Q	961	2,639	341	116.4	110.3	Q
District Heat	Q	220	Q	Q	1,243	Q	Q	177.4	Q
District Chilled Water	Q	115	Q	Q	667	Q	Q	172.3	Q
Propane	48	116	Q	991	1,548	265	48.2	75.1	39.4
Other	Q	Q	Q	222	Q	Q	Q	Q	Q

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Table C8. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 2

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
Space-Heating Energy Sources (more than one may apply)									
Electricity	185	598	113	2,328	7,347	1,411	79.7	81.4	80.1
Natural Gas	327	504	223	3,422	4,852	2,110	95.7	103.8	105.7
Fuel Oil	Q	59	Q	460	627	Q	Q	93.5	Q
District Heat	Q	214	Q	Q	1,173	Q	Q	182.7	Q
Propane	23	64	Q	695	908	Q	33.3	70.9	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Primary Space-Heating Energy Source									
Electricity	70	334	61	1,058	4,968	791	65.7	67.2	77.2
Natural Gas	289	445	182	3,091	4,175	1,817	93.3	106.7	100.0
Fuel Oil	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Heat	Q	210	Q	Q	1,149	Q	Q	182.9	Q
Propane	Q	Q	Q	496	456	Q	29.7	39.7	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooling Energy Sources (more than one may apply)									
Electricity	404	965	270	4,625	10,969	2,820	87.4	88.0	95.7
Natural Gas	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Chilled Water	Q	115	Q	Q	667	Q	Q	172.3	Q
Water-Heating Energy Sources (more than one may apply)									
Electricity	190	558	140	2,391	7,033	1,581	79.6	79.3	88.9
Natural Gas	233	476	189	2,382	3,649	1,456	98.0	130.5	130.0
Fuel Oil	Q	Q	N	Q	Q	N	Q	Q	N
District Heat	Q	123	Q	Q	730	Q	Q	168.9	Q
Propane	Q	Q	Q	362	391	Q	Q	Q	Q
Cooking Energy Sources (more than one may apply)									
Electricity	97	322	76	850	2,611	665	114.4	123.3	114.3
Natural Gas	123	405	109	913	2,741	786	134.8	147.7	138.2
Propane	Q	Q	Q	Q	374	Q	Q	Q	Q
Energy End Uses (more than one may apply)									
Buildings with Space Heating	435	1,031	306	5,108	11,012	3,056	85.2	93.7	100.1
Buildings with Cooling	411	1,052	306	4,694	11,474	2,985	87.5	91.7	102.4
Buildings with Water Heating	417	1,026	300	4,720	10,714	2,858	88.4	95.8	105.0
Buildings with Cooking	167	514	129	1,472	4,198	1,055	113.4	122.5	122.3
Buildings with Manufacturing	Q	Q	Q	Q	296	Q	Q	Q	Q
Buildings with Electricity Generation	100	280	Q	760	2,396	324	132.1	117.0	Q
Percent of Floorspace Heated									
Not Heated	Q	33	Q	377	1,246	337	Q	26.1	Q
1 to 50	11	71	Q	356	1,105	353	31.6	64.3	Q
51 to 99	39	143	34	513	1,864	309	75.7	76.9	108.4
100	385	817	252	4,239	8,043	2,394	90.8	101.6	105.2

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Table C8. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 2

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
Percent of Floorspace Cooled									
Not Cooled	25	12	Q	791	784	408	32.1	15.7	Q
1 to 50	100	125	Q	1,571	2,418	472	63.5	51.6	Q
51 to 99	131	230	53	1,325	2,624	459	98.5	87.6	115.2
100	180	697	229	1,797	6,431	2,054	100.4	108.4	111.6
Percent Lit When Open									
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	62	56	25	1,178	1,313	505	52.9	43.0	49.4
51 to 99	137	294	84	1,658	3,293	913	82.8	89.3	91.6
100	233	704	200	2,362	7,210	1,730	98.8	97.6	115.7
Building Never Open/ Electricity Not Used	Q	Q	Q	281	363	Q	Q	Q	Q
Percent Lit When Closed									
Zero	113	206	29	1,936	3,431	623	58.4	60.0	46.4
1 to 50	184	443	161	2,192	5,687	1,682	84.1	77.9	95.8
51 to 100	Q	Q	Q	Q	491	Q	Q	Q	Q
Building Never Closed/ Electricity Not Used	122	364	108	1,197	2,649	942	102.2	137.5	114.7
Heating Equipment (more than one may apply)									
Heat Pumps	29	297	48	339	3,677	542	84.5	80.8	89.4
Packaged Heat Pumps	Q	199	Q	Q	2,145	246	Q	92.6	Q
Split-System Heat Pumps	Q	103	Q	Q	1,459	214	Q	70.5	Q
Individual Room Heat Pumps	Q	79	Q	Q	1,039	Q	Q	76.1	Q
Furnaces	203	188	53	2,657	2,772	895	76.5	67.8	59.0
Individual Space Heaters	132	183	37	1,625	2,148	563	81.3	85.4	66.6
District Heat	Q	214	Q	Q	1,173	Q	Q	182.7	Q
Boilers	157	265	134	1,675	2,135	786	93.6	124.0	170.1
Packaged Heating Units	107	372	106	1,135	3,917	1,215	94.3	94.8	87.2
Other	33	51	Q	386	905	Q	86.1	56.8	Q
Cooling Equipment (more than one may apply)									
Residential-Type Central									
Air Conditioners	134	147	36	1,568	1,843	489	85.1	79.6	72.8
Heat Pumps	28	307	54	317	3,742	586	88.3	82.0	92.6
Packaged Heat Pumps	Q	195	Q	Q	2,104	294	Q	92.5	87.4
Split-System Heat Pumps	Q	108	Q	Q	1,494	225	Q	72.3	Q
Individual Room Heat Pumps	Q	86	Q	Q	1,079	Q	Q	80.1	Q
Individual Air Conditioners	96	184	42	1,289	2,218	610	74.1	83.0	68.9
District Chilled Water	Q	115	Q	Q	667	Q	Q	172.3	Q
Central Chillers	93	319	87	768	2,489	594	121.7	128.3	146.8
Packaged Air Conditioning									
Units	247	478	151	2,581	5,520	1,555	95.6	86.5	97.3
Swamp Coolers	N	Q	Q	N	Q	Q	N	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	141	179	76	1,754	2,253	886	80.4	79.5	85.3
Cooling	176	247	108	2,052	3,111	1,059	85.7	79.2	102.3

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Table C8. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 2

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
Water Heating Equipment									
Centralized System	268	539	190	3,029	5,649	1,890	88.4	95.3	100.4
Distributed System	61	174	38	920	2,432	469	66.1	71.5	80.6
Combination of Centralized and Distributed System	89	314	73	771	2,633	499	114.9	119.1	145.4
Lighting Equipment Types (more than one may apply)									
Incandescent	321	743	198	3,762	7,028	1,984	85.4	105.7	99.7
Standard Fluorescent	425	1,028	301	5,006	11,245	3,022	84.8	91.4	99.6
Compact Fluorescent	214	579	186	1,983	4,856	1,262	108.1	119.3	147.4
High Intensity Discharge	140	421	74	1,515	4,053	706	92.6	104.0	104.6
Halogen	161	430	68	1,402	3,474	620	115.0	123.9	109.7
Other	N	Q	Q	N	Q	Q	N	Q	Q
Refrigeration Equipment (more than one may apply)^a									
Any Refrigeration.....	393	1,003	295	4,544	10,256	2,829	86.5	97.8	104.4
Commercial Refrigeration	200	686	165	1,835	5,426	1,145	109.1	126.4	144.4
Walk-In Units	160	606	150	1,341	4,324	862	119.5	140.1	174.0
Cases or Cabinets	150	550	140	1,276	4,246	993	117.9	129.5	140.5
Residential-Type Units	277	603	165	3,545	7,043	1,834	78.2	85.7	90.1
Vending Machines	264	743	222	2,817	7,066	2,056	93.6	105.1	107.9
No Refrigeration	43	61	Q	941	2,002	565	45.9	30.7	Q
Office Equipment (more than one may apply)									
Computers	403	966	293	4,533	10,483	2,724	88.8	92.1	107.6
With Flat Screen Monitors	184	519	176	1,762	4,768	1,314	104.6	108.8	134.1
Dedicated Servers	274	684	200	2,796	6,839	1,606	97.9	99.9	124.7
Laser Printers	228	525	163	2,784	6,059	1,813	81.9	86.7	89.9
Inkjet Printers	251	619	181	2,489	6,138	1,502	101.0	100.8	120.3
FAX Machines	373	948	278	4,157	9,973	2,551	89.7	95.1	108.8
Photocopiers	322	831	241	3,586	8,821	2,211	89.7	94.2	109.1
Number of Computers									
None	34	98	16	952	1,775	669	35.3	55.5	23.8
1 to 4	81	175	63	1,207	2,124	807	67.5	82.4	78.2
5 to 9	78	71	35	826	1,154	520	94.4	61.5	67.7
10 to 19	50	78	Q	621	1,321	Q	80.8	59.3	Q
20 to 49	68	119	68	736	1,207	437	91.8	98.3	154.6
50 to 99	Q	118	Q	305	1,265	Q	Q	93.4	Q
100 to 249	56	140	Q	630	1,353	Q	89.0	103.4	Q
250 or More	Q	264	Q	208	2,059	Q	Q	128.4	Q
Number of Dedicated Servers									
None	162	380	109	2,689	5,419	1,788	60.4	70.2	61.0
1 to 4	217	363	159	2,366	4,155	1,272	91.9	87.4	124.8
5 to 9	Q	103	Q	212	966	Q	Q	106.2	Q
10 to 19	Q	121	Q	Q	837	Q	Q	145.0	Q
20 to 49	Q	Q	Q	Q	524	Q	Q	Q	Q
50 or More	Q	Q	Q	Q	Q	Q	Q	96.6	Q

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Table C8. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 2

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
Number of Photocopiers									
None	114	233	68	1,899	3,437	1,182	60.3	67.7	57.5
One	125	179	63	1,615	2,611	1,016	77.2	68.7	61.6
2 to 4	115	262	102	1,281	3,060	659	89.8	85.8	154.2
5 to 9	Q	119	Q	388	1,124	Q	Q	105.8	Q
10 or More	42	270	44	302	2,026	284	139.8	133.5	155.2
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	167	514	129	1,472	4,196	1,055	113.4	122.6	122.3
Activities with Large Amounts of Hot Water	193	518	115	1,678	4,178	949	115.2	124.1	121.6
Separate Computer Area	173	532	121	1,723	5,236	1,028	100.5	101.6	117.9
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	155	447	120	1,342	3,818	788	115.5	117.2	152.4
Economizer Cycle	166	476	105	1,533	3,815	828	108.5	124.7	126.7
HVAC Maintenance	336	959	261	3,704	9,547	2,258	90.7	100.4	115.5
Energy Management and Control System (EMCS)	103	331	80	965	3,426	542	107.2	96.6	148.5
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	333	696	180	3,738	7,191	1,685	89.2	96.7	107.1
Tinted Window Glass	179	644	129	1,925	6,498	1,169	93.1	99.1	110.1
Reflective Window Glass	69	167	56	711	1,655	257	97.0	100.8	216.5
External Overhangs or Awnings	148	367	111	1,688	3,814	1,022	87.4	96.3	108.4
Skylights or Atriums	93	173	43	929	1,831	434	100.2	94.4	99.4
Daylighting Sensors	Q	Q	Q	Q	448	Q	Q	Q	Q
Specular Reflectors	190	499	74	1,896	4,553	785	100.0	109.6	94.0
Electronic Ballasts	364	869	238	3,987	8,835	2,177	91.4	98.4	109.2
Energy Management and Control System (EMCS) For Lighting	Q	70	Q	Q	810	Q	Q	85.9	Q

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Table C8. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 2

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	436	1,064	309	5,485	12,258	3,393	79.5	86.8	91.1
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)^a									
Heating	267	617	203	3,314	7,843	2,124	80.5	78.7	95.7
Cooling	265	684	214	3,323	8,678	2,175	79.6	78.9	98.2
Lighting	298	668	194	4,037	9,061	2,340	73.9	73.7	83.0
Office Equipment	134	234	59	1,767	3,468	703	75.7	67.4	83.3

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>.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

^a The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: • Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. • HVAC = Heating, Ventilation, and Air Conditioning. • Due to rounding, data may not sum to totals.

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

Table C9. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 3

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
All Buildings*	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
Building Floorspace (Square Feet)									
1,001 to 5,000	87	44	64	788	464	871	110.9	94.7	73.0
5,001 to 10,000	60	36	76	879	418	820	68.2	86.7	92.9
10,001 to 25,000	53	76	73	1,329	831	1,256	40.2	91.7	58.4
25,001 to 50,000	64	49	65	998	511	1,132	63.9	96.5	57.2
50,001 to 100,000	73	29	60	1,314	374	948	55.7	77.6	63.6
100,001 to 200,000	90	Q	66	1,131	Q	895	79.5	Q	73.8
200,001 to 500,000	54	Q	65	664	339	947	81.6	Q	69.0
Over 500,000	Q	Q	Q	Q	Q	766	Q	Q	Q
Principal Building Activity									
Education	74	53	76	1,198	640	1,027	61.4	82.9	74.3
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	Q	Q	Q	232	Q	232	Q	Q	Q
Health Care	59	Q	57	309	230	323	192.3	Q	177.7
Inpatient	Q	Q	Q	235	Q	176	Q	Q	Q
Outpatient	Q	Q	Q	Q	Q	147	Q	Q	Q
Lodging	Q	Q	47	387	438	649	Q	Q	71.8
Retail (Other Than Mall).....	39	Q	40	594	210	753	66.3	Q	52.8
Office	124	58	117	1,343	629	1,796	92.3	91.9	65.1
Public Assembly	Q	Q	Q	498	Q	468	Q	Q	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	20	Q	Q	467	Q	341	42.1	Q	Q
Service	Q	Q	Q	298	345	319	Q	Q	Q
Warehouse and Storage	30	Q	25	1,740	506	1,066	17.5	Q	23.3
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	350	Q	Q	Q	Q	Q
Year Constructed									
Before 1920	Q	Q	Q	Q	Q	Q	Q	Q	Q
1920 to 1945	Q	Q	46	398	Q	783	Q	Q	59.2
1946 to 1959	31	25	48	460	255	873	66.8	98.4	55.5
1960 to 1969	45	60	60	675	592	1,005	66.6	101.5	60.0
1970 to 1979	104	105	85	1,473	924	1,162	70.8	113.3	73.5
1980 to 1989	167	Q	128	1,934	700	1,541	86.4	128.5	83.2
1990 to 1999	139	55	115	1,823	627	1,377	76.2	88.4	83.3
2000 to 2003	57	Q	36	943	307	731	60.0	Q	48.9
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	N	209	Q	N	2,108	Q	N	99.2	92.5
5,500-7,000 HDD	N	121	77	N	1,090	979	N	110.8	78.2
4,000-5,499 HDD	Q	N	Q	Q	N	693	Q	N	94.0
Fewer than 4,000 HDD	171	N	329	1,992	N	5,401	85.7	N	60.9
2,000 CDD or More and --									
Fewer than 4,000 HDD	379	52	Q	5,385	476	Q	70.4	108.1	Q
Number of Floors									
One	264	160	205	4,362	1,871	3,098	60.6	85.5	66.1
Two	81	96	131	1,381	990	2,128	58.9	96.5	61.6
Three	Q	Q	42	453	181	715	Q	Q	59.4
Four to Nine	93	48	105	736	338	990	Q	141.1	106.4
Ten or More	Q	Q	Q	904	Q	704	Q	Q	Q

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Table C9. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 3

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
All Buildings*	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
Elevators and Escalators (more than one may apply)									
Any Elevators	255	144	228	2,414	1,069	2,785	105.5	134.9	81.8
Number of Elevators									
One	37	33	44	631	414	662	59.0	79.2	66.4
Two to Five	91	Q	92	808	275	1,085	Q	Q	84.4
Six or More	126	Q	92	975	Q	1,039	129.6	Q	88.8
Any Escalators	Q	Q	Q	Q	Q	Q	Q	Q	Q
Number of Workers (main shift)									
Fewer than 5	56	53	59	2,046	766	1,723	27.4	69.6	34.5
5 to 9	58	29	51	835	345	678	69.9	84.8	74.6
10 to 19	78	42	42	999	428	681	77.7	98.8	61.3
20 to 49	116	59	107	1,408	645	1,291	82.5	92.1	83.1
50 to 99	68	53	60	840	558	812	81.5	94.6	74.2
100 to 249	42	Q	84	451	311	1,086	93.5	Q	77.2
250 or More	156	Q	126	1,259	622	1,364	124.2	172.1	92.7
Weekly Operating Hours									
Fewer than 40	18	Q	25	918	291	804	19.2	Q	31.5
40 to 48	71	60	57	1,688	783	1,378	41.9	76.4	41.2
49 to 60	126	55	108	1,872	712	1,744	67.3	77.2	62.2
61 to 84	101	55	95	1,228	592	1,358	82.6	93.2	69.6
85 to 167	104	Q	81	882	357	950	118.3	Q	85.2
Open Continuously	155	155	164	1,250	940	1,401	124.2	164.7	116.8
Ownership and Occupancy									
Nongovernment Owned	459	268	392	6,325	2,611	6,125	72.6	102.5	64.0
Owner Occupied	190	86	179	2,761	976	2,672	68.9	88.1	67.1
Nonowner Occupied	268	181	211	3,230	1,624	3,189	83.0	111.6	66.1
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned	116	114	138	1,512	1,064	1,510	76.6	107.2	91.2
Federal	Q	Q	Q	Q	Q	Q	Q	Q	Q
State	Q	Q	63	Q	Q	565	Q	Q	111.2
Local	59	65	56	969	681	864	60.5	95.3	64.3
Vacancy Status									
Completely Vacant	Q	Q	Q	346	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	139	74	90	1,685	750	1,335	82.6	99.0	67.5
Not At All Vacant	435	306	435	5,802	2,882	5,978	75.0	106.2	72.7
Number of Establishments									
One	399	308	381	5,339	2,794	4,982	74.8	110.1	76.6
2 to 5	78	45	88	1,217	538	1,362	63.9	83.5	64.7
6 to 10	Q	Q	Q	Q	Q	211	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	639	Q	547	Q	Q	Q
Currently Unoccupied	Q	Q	Q	346	Q	Q	Q	Q	Q

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Table C9. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 3

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
All Buildings*	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
Predominant Exterior Wall Material									
Brick, Stone or Stucco	318	149	253	3,699	1,551	3,195	85.9	96.2	79.3
Concrete (Block or Poured)	80	55	102	973	462	1,315	82.1	118.4	77.4
Concrete Panels	85	Q	59	1,216	695	1,277	70.3	135.7	46.1
Siding or Shingles	23	16	41	281	Q	461	81.5	68.3	88.0
Metal Panels	41	54	45	1,360	634	918	30.4	85.1	48.9
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material									
Built-Up	215	176	202	2,479	1,421	2,990	86.8	123.7	67.6
Shingles (Not Wood)	56	42	79	797	475	1,174	70.3	89.5	67.4
Metal Surfacing	93	67	55	2,635	944	1,001	35.3	70.7	54.4
Synthetic or Rubber	153	74	110	1,206	664	1,209	126.6	111.9	91.4
Slate or Tile	Q	Q	38	279	Q	552	Q	Q	69.7
Wooden Materials	Q	Q	Q	Q	Q	212	Q	Q	Q
Concrete	Q	Q	Q	Q	Q	353	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	N	Q	Q	N	Q	Q	N	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation									
Since 1980	99	124	123	1,273	1,095	1,746	78.0	113.6	70.7
Addition or Annex	Q	71	39	529	551	428	Q	128.5	90.9
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	73	86	102	931	718	1,465	78.7	119.5	69.5
Wall or Roof Replacement	Q	59	56	562	504	789	Q	117.4	71.3
Interior Wall									
Re-Configuration	46	83	68	566	637	870	81.3	129.9	78.1
HVAC Equipment Upgrade	54	92	79	561	776	1,049	96.3	118.9	75.6
Lighting Upgrade	43	87	81	466	733	1,042	93.2	119.1	77.8
Window Replacement	Q	35	41	266	332	510	Q	106.0	80.9
Plumbing System Upgrade	Q	63	61	323	517	852	Q	122.3	71.7
Insulation Upgrade	Q	Q	Q	231	Q	411	Q	Q	Q
Other Renovation	N	Q	Q	N	Q	Q	N	Q	Q
No Renovations Since 1980	113	91	127	1,864	945	2,240	60.8	96.5	56.9
Building Newer than 1980	363	166	279	4,700	1,634	3,649	77.2	101.5	76.4
Energy Sources (more than one may apply)									
Electricity	575	381	530	7,449	3,633	7,397	77.2	105.0	71.6
Natural Gas	455	330	396	4,704	2,797	5,016	96.8	118.0	78.9
Fuel Oil	143	Q	141	1,141	626	1,497	125.1	Q	94.5
District Heat	Q	Q	Q	Q	253	413	Q	Q	Q
District Chilled Water	Q	Q	Q	284	Q	300	Q	Q	Q
Propane	Q	Q	73	547	555	618	Q	97.8	117.6
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q

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Table C9. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 3

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
All Buildings*	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
Space-Heating Energy Sources (more than one may apply)									
Electricity	302	143	226	4,300	1,389	3,526	70.2	102.7	64.2
Natural Gas	355	291	304	3,731	2,547	4,301	95.2	114.2	70.8
Fuel Oil	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Heat	Q	Q	Q	Q	253	362	Q	Q	Q
Propane	Q	Q	Q	Q	245	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Primary Space-Heating Energy Source									
Electricity	201	57	132	3,325	789	2,325	60.5	72.6	56.7
Natural Gas	323	269	272	3,308	2,277	3,633	97.8	117.9	74.9
Fuel Oil	N	Q	Q	N	Q	Q	N	Q	Q
District Heat	Q	Q	Q	Q	Q	362	Q	Q	Q
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	N	Q	Q	N	Q	Q	N	Q	Q
Cooling Energy Sources (more than one may apply)									
Electricity	532	344	449	6,834	3,186	6,328	77.9	107.9	70.9
Natural Gas	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Chilled Water	Q	Q	Q	284	Q	300	Q	Q	Q
Water-Heating Energy Sources (more than one may apply)									
Electricity	211	94	174	3,267	1,236	2,771	64.4	76.1	62.7
Natural Gas	340	287	311	3,201	2,276	3,838	106.2	126.0	81.0
Fuel Oil	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Heat	Q	Q	Q	Q	Q	338	Q	Q	Q
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cooking Energy Sources (more than one may apply)									
Electricity	200	Q	104	1,623	791	1,192	123.5	142.5	87.2
Natural Gas	261	123	180	1,953	796	1,616	133.4	154.3	111.7
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy End Uses (more than one may apply)									
Buildings with Space Heating	563	370	489	6,929	3,525	6,577	81.3	104.9	74.3
Buildings with Cooling	569	358	499	7,094	3,267	6,683	80.3	109.6	74.7
Buildings with Water Heating	543	373	507	6,341	3,422	6,426	85.6	108.8	78.8
Buildings with Cooking	324	156	241	2,628	1,209	2,280	123.1	129.4	105.6
Buildings with Manufacturing	Q	Q	Q	Q	Q	412	Q	Q	Q
Buildings with Electricity Generation	159	Q	138	1,297	738	1,504	122.9	157.0	91.7
Percent of Floorspace Heated									
Not Heated	Q	Q	41	908	Q	1,057	Q	Q	38.6
1 to 50	29	Q	51	1,384	Q	1,257	21.0	Q	40.7
51 to 99	76	70	97	718	569	1,381	105.9	123.7	70.1
100	458	286	341	4,828	2,721	3,940	94.9	105.0	86.5

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Table C9. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 3

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
All Buildings*	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
Percent of Floorspace Cooled									
Not Cooled	Q	24	31	744	407	952	Q	57.8	32.3
1 to 50	59	82	76	2,025	918	1,738	29.3	89.3	43.5
51 to 99	95	93	130	820	886	1,559	116.2	104.4	83.6
100	415	183	293	4,249	1,463	3,386	97.6	125.4	86.5
Percent Lit When Open									
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	51	27	45	1,371	382	1,130	37.5	70.8	39.5
51 to 99	137	117	165	1,928	1,095	2,161	70.9	106.7	76.4
100	384	237	315	3,933	2,136	3,947	97.7	111.1	79.9
Building Never Open/ Electricity Not Used	Q	Q	Q	553	Q	Q	Q	Q	Q
Percent Lit When Closed									
Zero	98	76	100	2,239	1,118	1,994	43.9	68.0	50.0
1 to 50	290	146	254	3,658	1,526	3,823	79.4	95.5	66.3
51 to 100	Q	Q	Q	374	Q	180	Q	Q	Q
Building Never Closed/ Electricity Not Used	155	155	164	1,565	973	1,638	99.2	159.0	99.9
Heating Equipment (more than one may apply)									
Heat Pumps	49	Q	77	722	333	1,268	68.3	Q	60.8
Packaged Heat Pumps	Q	Q	42	537	Q	741	Q	Q	57.0
Split-System Heat Pumps	Q	Q	24	Q	Q	305	Q	Q	77.6
Individual Room Heat Pumps	Q	Q	Q	Q	Q	431	Q	Q	Q
Furnaces	156	102	123	2,048	1,302	1,773	76.1	78.2	69.4
Individual Space Heaters	55	62	84	898	692	1,290	61.4	89.1	65.3
District Heat	Q	Q	Q	Q	253	362	Q	Q	Q
Boilers	161	182	186	1,472	1,359	2,302	109.4	133.7	80.9
Packaged Heating Units	245	77	164	2,998	748	2,564	81.6	102.8	63.9
Other	Q	Q	Q	399	347	Q	Q	Q	Q
Cooling Equipment (more than one may apply)									
Residential-Type Central									
Air Conditioners	72	31	58	1,523	341	841	47.5	91.7	69.5
Heat Pumps	Q	Q	79	595	430	1,355	Q	Q	58.2
Packaged Heat Pumps	Q	Q	41	451	Q	742	Q	Q	55.1
Split-System Heat Pumps	Q	Q	Q	Q	Q	322	Q	Q	Q
Individual Room Heat Pumps	Q	Q	31	Q	Q	546	Q	Q	57.3
Individual Air Conditioners	45	76	60	806	730	1,019	56.3	104.2	58.8
District Chilled Water	Q	Q	Q	284	Q	300	Q	Q	Q
Central Chillers	194	Q	134	1,771	621	1,466	109.5	159.2	91.5
Packaged Air Conditioning									
Units	268	191	266	3,325	1,655	3,826	80.6	115.2	69.6
Swamp Coolers	Q	85	50	Q	874	468	Q	96.9	105.9
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	115	135	97	1,675	1,133	1,455	68.7	118.7	67.0
Cooling	167	161	135	2,245	1,356	2,018	74.4	118.5	66.7

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Table C9. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 3

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
All Buildings*	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
Water Heating Equipment									
Centralized System	366	194	316	3,998	1,928	3,712	91.6	100.4	85.2
Distributed System	100	47	70	1,664	566	1,415	60.2	82.5	49.5
Combination of Centralized and Distributed System	76	132	120	679	928	1,299	112.4	142.4	92.5
Lighting Equipment Types (more than one may apply)									
Incandescent	379	274	330	4,033	2,443	3,965	94.0	112.3	83.2
Standard Fluorescent	557	376	515	6,955	3,534	7,066	80.0	106.5	72.9
Compact Fluorescent	305	211	345	2,764	1,748	4,024	110.5	120.9	85.6
High Intensity Discharge	125	101	181	1,470	977	2,438	84.9	103.1	74.3
Halogen	177	124	179	2,099	993	2,275	84.2	125.1	78.8
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)^a									
Any Refrigeration.....	520	335	469	6,018	3,028	5,919	86.4	110.8	79.2
Commercial Refrigeration	374	193	276	3,067	1,398	2,674	121.9	137.8	103.4
Walk-In Units	317	162	242	2,284	1,073	2,059	138.7	151.3	117.4
Cases or Cabinets	316	164	238	2,425	1,093	2,185	130.4	149.6	109.1
Residential-Type Units	334	216	303	4,285	2,232	4,410	77.9	97.0	68.6
Vending Machines	381	256	311	4,412	2,058	3,783	86.2	124.2	82.2
No Refrigeration	55	46	61	1,819	647	1,715	30.3	71.2	35.6
Office Equipment (more than one may apply)									
Computers	535	357	501	6,507	3,282	6,698	82.2	108.8	74.8
With Flat Screen Monitors	310	173	289	3,053	1,365	3,575	101.6	127.1	80.9
Dedicated Servers	359	228	353	4,204	1,959	4,335	85.3	116.6	81.3
Laser Printers	278	227	297	3,694	2,165	3,723	75.2	105.0	79.6
Inkjet Printers	354	212	304	3,840	1,901	4,108	92.1	111.5	74.1
FAX Machines	521	333	456	6,258	2,983	6,140	83.2	111.5	74.3
Photocopiers	407	303	396	5,281	2,753	5,439	77.0	110.1	72.8
Number of Computers									
None	40	24	28	1,330	393	937	30.3	61.8	30.2
1 to 4	125	64	79	1,488	707	1,444	83.9	90.0	54.7
5 to 9	46	49	63	864	450	649	53.1	109.5	96.8
10 to 19	49	37	53	910	371	825	53.6	99.2	64.3
20 to 49	63	45	81	780	548	1,006	81.3	81.5	80.8
50 to 99	43	Q	47	490	285	784	87.3	Q	59.4
100 to 249	55	56	65	660	448	869	83.2	124.9	75.0
250 or More	154	Q	114	1,315	473	1,122	117.4	Q	101.2
Number of Dedicated Servers									
None	217	153	177	3,633	1,716	3,299	59.6	89.3	53.7
1 to 4	193	140	210	2,782	1,428	2,665	69.4	98.2	78.9
5 to 9	Q	Q	54	Q	Q	601	Q	Q	89.5
10 to 19	Q	Q	37	Q	Q	414	Q	Q	90.3
20 to 49	Q	Q	Q	Q	Q	Q	Q	Q	Q
50 or More	Q	Q	Q	Q	Q	Q	Q	Q	Q

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Table C9. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 3

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
All Buildings*	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
Number of Photocopiers									
None	168	78	134	2,557	921	2,196	65.8	84.9	60.9
One	98	84	108	1,833	995	1,757	53.4	84.6	61.6
2 to 4	118	81	112	1,799	887	1,706	65.3	90.9	65.5
5 to 9	Q	Q	58	405	Q	634	Q	Q	91.4
10 or More	146	121	118	1,243	690	1,341	117.7	174.6	88.0
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	324	156	239	2,628	1,209	2,269	123.1	129.4	105.4
Activities with Large Amounts of Hot Water	222	182	239	1,776	1,384	2,048	124.9	131.3	116.8
Separate Computer Area	290	196	262	3,132	1,607	3,462	92.5	121.9	75.6
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	277	155	208	2,743	1,236	2,232	101.1	125.1	93.0
Economizer Cycle	232	184	252	1,988	1,383	3,069	116.9	133.1	82.2
HVAC Maintenance	512	333	488	5,836	3,065	6,282	87.7	108.8	77.8
Energy Management and Control System (EMCS)	197	117	178	1,834	857	2,170	107.6	136.6	82.0
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	321	289	240	3,429	2,656	2,880	93.7	108.9	83.4
Tinted Window Glass	356	218	280	4,283	1,617	4,043	83.1	134.9	69.3
Reflective Window Glass	118	41	99	1,098	489	1,219	107.0	83.3	80.8
External Overhangs or Awnings	191	171	158	1,950	1,521	2,025	97.7	112.4	78.2
Skylights or Atriums	163	132	115	1,656	1,001	1,465	98.5	131.6	78.8
Daylighting Sensors	Q	Q	79	Q	Q	674	Q	Q	117.9
Specular Reflectors	239	176	236	2,533	1,307	3,396	94.2	134.5	69.4
Electronic Ballasts	472	331	430	5,446	2,905	5,621	86.7	113.9	76.5
Energy Management and Control System (EMCS) For Lighting	Q	Q	87	629	Q	923	Q	Q	94.8

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Table C9. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 3

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	575	381	530	7,837	3,675	7,635	73.4	103.8	69.4
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)^a									
Heating	376	261	352	4,688	2,456	5,183	80.3	106.4	67.9
Cooling	411	269	380	5,241	2,449	5,380	78.5	109.8	70.6
Lighting	398	222	354	5,715	2,608	5,674	69.6	85.0	62.3
Office Equipment	109	88	125	2,255	1,030	2,260	48.4	85.9	55.2

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>.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

^a The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: • Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. • HVAC = Heating, Ventilation, and Air Conditioning. • Due to rounding, data may not sum to totals.

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

Table C10. Consumption and Gross Energy Intensity by Climate Zone^a for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)					Total Floorspace of Buildings (million square feet)					Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	990	1,761	1,134	1,213	724	10,622	17,335	11,504	15,739	9,584	93.2	101.6	98.5	77.0	75.5
Building Floorspace (Square Feet)															
1,001 to 5,000	143	187	90	170	95	1,313	1,709	1,010	1,915	975	108.7	109.6	88.8	89.0	97.9
5,001 to 10,000	110	137	91	156	69	1,248	1,725	1,077	2,024	959	88.1	79.3	84.6	77.1	71.7
10,001 to 25,000	183	286	146	166	118	2,406	3,506	1,498	3,176	2,073	75.9	81.6	97.6	52.3	56.9
25,001 to 50,000	146	212	125	152	107	1,547	2,424	1,382	2,381	1,647	94.4	87.6	90.3	63.7	64.8
50,001 to 100,000	149	273	183	191	118	1,480	2,780	2,011	2,352	1,668	100.8	98.0	90.8	81.2	70.6
100,001 to 200,000	117	336	187	283	141	1,311	2,889	1,881	2,597	1,538	89.4	116.3	99.2	109.1	91.7
200,001 to 500,000	129	226	168	136	94	1,150	2,007	1,678	1,612	1,047	111.8	112.5	99.8	84.1	89.6
Over 500,000	Q	272	254	132	Q	1,073	1,766	1,966	1,573	1,282	Q	153.8	129.4	83.9	Q
Principal Building Activity															
Education	141	238	131	186	123	1,537	2,800	1,403	2,435	1,698	91.6	85.2	93.5	76.6	72.6
Food Sales	Q	Q	Q	Q	Q	271	368	Q	273	Q	Q	Q	Q	Q	Q
Food Service	52	96	Q	134	Q	227	400	219	440	366	230.1	238.7	Q	305.4	Q
Health Care	96	161	108	145	83	475	784	564	844	496	202.4	205.8	191.4	171.9	167.7
Inpatient	65	127	Q	127	Q	262	450	323	592	278	246.1	283.3	Q	215.0	Q
Outpatient	Q	34	Q	Q	Q	213	334	240	252	218	Q	101.5	Q	Q	Q
Lodging	69	174	110	104	Q	768	1,314	1,132	1,275	608	90.1	132.1	Q	81.4	Q
Retail (Other Than Mall).....	73	64	54	74	55	710	865	695	1,454	592	103.0	73.5	77.7	50.7	92.0
Office	145	364	298	162	165	1,593	3,165	3,125	2,341	1,985	90.7	114.9	95.4	69.3	83.2
Public Assembly	90	74	70	101	35	876	818	806	910	529	102.2	90.8	Q	111.1	65.8
Public Order and Safety	Q	Q	Q	Q	Q	Q	360	Q	Q	Q	Q	Q	Q	Q	Q
Religious Worship	26	62	26	31	19	408	1,320	499	1,039	488	62.9	46.9	52.8	29.4	38.2
Service	95	84	64	49	Q	944	1,185	644	969	308	100.4	71.2	99.5	50.3	Q
Warehouse and Storage	78	201	73	73	31	1,704	2,639	1,479	2,419	1,836	45.7	76.1	49.5	30.1	16.9
Other	Q	Q	Q	Q	Q	334	467	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	543	849	Q	569	318	Q	Q	Q	Q	Q
Year Constructed															
Before 1920	109	99	Q	Q	Q	1,227	1,413	731	290	Q	88.6	70.2	89.0	Q	Q
1920 to 1945	86	262	199	57	Q	1,089	2,266	1,985	1,239	405	79.3	115.5	100.2	45.7	Q
1946 to 1959	86	236	124	114	28	1,093	2,508	1,446	1,663	552	78.7	94.2	86.0	68.3	49.9
1960 to 1969	156	254	158	141	81	1,447	2,576	1,576	1,997	1,046	108.0	98.8	100.3	70.5	77.7
1970 to 1979	274	344	212	217	143	2,496	3,259	1,942	2,783	1,796	109.8	105.7	109.2	77.9	79.9
1980 to 1989	110	343	222	354	217	1,123	2,808	2,110	3,850	2,576	98.2	122.2	105.3	91.9	84.3
1990 to 1999	195	266	164	371	264	2,120	2,655	1,764	4,207	3,235	92.2	100.3	93.1	88.3	81.6
2000 to 2003	69	124	98	112	108	934	1,322	949	1,601	1,456	73.6	93.5	103.3	70.0	74.4
Census Region and Division															
Northeast	211	597	588	N	N	2,567	5,989	5,440	N	N	82.2	99.8	108.0	N	N
New England	62	282	N	N	N	Q	2,463	N	N	N	63.1	114.5	N	N	N
Middle Atlantic	Q	315	588	N	N	1,577	3,526	5,440	N	N	94.2	89.4	108.0	N	N
Midwest	573	1,112	114	N	N	5,910	10,584	1,609	N	N	97.0	105.1	70.5	N	N
East North Central	333	1,010	N	N	N	3,208	9,215	N	N	N	103.8	109.6	N	N	N
West North Central	240	102	114	N	N	2,702	Q	1,609	N	N	88.9	74.6	70.5	N	N
South	N	N	472	997	796	N	N	4,736	11,506	10,497	N	N	99.7	86.6	75.8
South Atlantic	N	N	311	635	296	N	N	3,065	7,126	3,807	N	N	101.4	89.0	77.7
East South Central	N	N	Q	Q	Q	N	N	Q	Q	Q	N	N	112.3	78.5	98.9
West South Central	N	N	Q	195	457	N	N	Q	2,255	6,258	N	N	Q	86.7	73.0
West	302	219	Q	389	84	3,052	2,234	718	6,125	692	99.0	98.2	96.4	63.5	121.0
Mountain	244	136	N	N	65	2,446	1,181	N	N	580	99.9	115.5	N	N	112.9
Pacific	Q	83	Q	389	Q	Q	Q	718	6,125	Q	95.1	78.8	96.4	63.5	Q

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Table C10. Consumption and Gross Energy Intensity by Climate Zone^a for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)					Total Floorspace of Buildings (million square feet)					Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	990	1,761	1,134	1,213	724	10,622	17,335	11,504	15,739	9,584	93.2	101.6	98.5	77.0	75.5
Number of Floors															
One	320	588	247	484	298	3,750	6,253	3,156	8,011	4,810	85.4	94.1	78.2	60.4	61.9
Two	275	383	243	271	139	3,146	4,867	2,623	3,423	2,210	87.5	78.7	92.5	79.1	62.9
Three	143	220	101	123	32	1,664	2,643	1,228	1,473	492	86.1	83.4	82.6	83.4	64.0
Four to Nine	206	393	328	264	145	1,731	2,525	2,744	1,982	1,103	119.3	155.7	119.5	133.2	131.2
Ten or More	Q	176	215	71	Q	330	1,047	1,752	850	968	Q	168.0	122.5	83.5	Q
Elevators and Escalators (more than one may apply)															
Any Elevators	422	842	659	556	348	4,047	6,462	5,728	4,967	3,413	104.2	130.3	115.0	111.9	101.9
Number of Elevators															
One	162	246	146	114	63	1,714	2,647	1,539	1,272	1,048	94.5	93.1	95.0	89.5	60.4
Two to Five	185	335	234	272	131	1,906	2,479	2,282	2,263	1,199	97.3	135.2	102.5	120.3	109.2
Six or More	74	261	278	170	154	427	1,336	1,908	1,431	1,166	173.9	195.1	146.0	118.5	131.8
Any Escalators	Q	Q	Q	Q	Q	Q	Q	788	Q	Q	Q	Q	Q	Q	Q
Number of Workers (main shift)															
Fewer than 5	164	348	93	140	72	2,699	4,857	1,755	4,076	2,106	60.9	71.7	53.1	34.2	34.1
5 to 9	83	139	79	109	59	1,035	1,529	1,013	1,646	944	79.9	91.0	77.9	65.9	62.9
10 to 19	124	166	103	112	89	1,374	2,155	1,359	1,599	1,317	90.5	76.8	75.9	70.3	67.6
20 to 49	220	254	232	226	118	2,014	2,709	2,132	2,498	1,635	109.3	93.6	109.0	90.4	72.2
50 to 99	152	222	128	157	68	1,673	2,166	1,316	1,812	966	91.2	102.4	97.3	86.5	70.7
100 to 249	118	232	145	262	81	996	1,561	1,434	2,109	771	118.0	148.9	100.9	124.4	104.5
250 or More	128	399	353	207	237	832	2,357	2,495	1,999	1,845	154.2	169.5	141.6	103.6	128.3
Weekly Operating Hours															
Fewer than 40	43	83	24	48	28	977	2,330	658	1,903	994	44.5	35.6	37.1	25.4	28.5
40 to 48	113	282	122	162	94	1,549	3,147	1,983	3,017	1,926	73.1	89.6	61.5	53.6	49.1
49 to 60	222	400	206	201	150	3,094	4,123	2,380	3,589	2,537	71.8	97.0	86.6	56.0	59.2
61 to 84	168	260	177	212	107	1,586	2,887	1,897	2,557	1,407	106.1	90.2	93.2	82.8	76.1
85 to 167	199	218	174	180	118	1,552	1,665	1,386	1,384	1,105	128.2	131.0	125.7	130.0	107.0
Open Continuously	244	517	430	410	225	1,863	3,184	3,200	3,288	1,615	130.9	162.5	134.4	124.7	139.5
Ownership and Occupancy															
Nongovernment Owned															
Owner Occupied	314	633	464	415	235	3,894	6,510	4,791	5,496	2,899	80.5	97.2	96.8	75.6	81.0
Nonowner Occupied	388	529	414	487	297	3,972	5,030	4,244	6,439	4,228	97.6	105.2	97.6	75.6	70.1
Unoccupied	Q	Q	Q	Q	Q	Q	810	Q	473	Q	Q	Q	Q	Q	Q
Government Owned															
Federal	Q	Q	Q	Q	Q	167	1,135	Q	144	Q	Q	Q	169.3	Q	Q
State	115	101	80	153	Q	696	709	692	1,247	Q	165.0	142.6	115.5	123.0	Q
Local	151	290	97	142	120	1,695	3,141	1,182	1,939	1,642	89.4	92.3	81.8	73.3	73.2
Vacancy Status															
Completely Vacant	Q	Q	Q	Q	Q	Q	821	Q	491	303	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	188	362	243	134	158	2,295	3,261	2,606	2,179	2,041	82.1	111.0	93.2	61.6	77.6
Not At All Vacant	882	1,547	986	1,249	719	8,690	14,697	9,609	14,882	8,830	101.4	105.3	102.6	83.9	81.4
Number of Establishments															
One	696	1,333	777	896	465	7,138	12,514	7,713	11,616	6,163	97.6	106.5	100.7	77.1	75.5
2 to 5	252	321	196	276	117	2,527	3,217	2,021	3,008	1,792	99.8	99.6	96.8	91.6	65.4
6 to 10	57	117	60	51	93	584	867	530	586	791	97.8	135.0	113.5	86.7	117.6
11 to 20	Q	80	64	72	68	Q	747	793	694	723	Q	106.9	80.5	104.3	94.7
More than 20	Q	Q	Q	89	134	538	641	1,227	1,236	1,417	Q	Q	Q	72.4	94.7
Currently Unoccupied	Q	Q	Q	Q	Q	Q	821	Q	491	303	Q	Q	Q	Q	Q

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Table C10. Consumption and Gross Energy Intensity by Climate Zone^a for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)					Total Floorspace of Buildings (million square feet)					Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	990	1,761	1,134	1,213	724	10,622	17,335	11,504	15,739	9,584	93.2	101.6	98.5	77.0	75.5
Predominant Exterior															
Wall Material															
Brick, Stone or Stucco	458	1,096	621	668	342	4,477	9,905	6,068	8,295	4,071	102.4	110.7	102.4	80.6	83.9
Concrete (Block or Poured)	216	222	213	191	132	2,023	2,599	1,840	2,428	1,942	106.6	85.4	115.9	78.8	68.0
Concrete Panels	109	160	121	124	154	895	1,252	1,219	1,431	1,762	121.7	127.4	99.2	86.9	87.1
Siding or Shingles	83	81	22	72	Q	1,294	1,319	443	849	214	64.3	61.6	49.0	84.3	Q
Metal Panels	102	112	84	134	32	1,665	1,492	1,287	2,394	1,074	61.0	74.8	65.2	56.1	29.5
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	351	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material															
Built-Up	343	592	433	432	283	3,311	5,174	3,862	5,283	3,540	103.6	114.5	112.2	81.8	79.8
Shingles (Not Wood)	161	264	156	184	58	1,788	3,309	1,498	2,657	943	90.3	79.6	103.8	69.1	61.9
Metal Surfacing	146	128	88	184	84	2,396	2,091	1,620	3,390	2,448	60.9	61.2	54.4	54.2	34.3
Synthetic or Rubber	279	577	334	246	214	2,530	5,225	2,847	2,561	1,566	110.1	110.3	117.3	96.0	136.7
Slate or Tile	Q	50	40	72	30	145	478	451	972	416	Q	103.6	88.0	74.1	71.9
Wooden Materials	Q	Q	Q	Q	Q	Q	217	Q	254	Q	Q	Q	Q	Q	Q
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	320	394	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)															
Any Type of Renovation															
Since 1980	387	578	411	267	124	3,793	5,445	4,025	3,157	1,424	102.0	106.1	102.1	84.4	87.0
Addition or Annex	205	215	152	107	54	1,800	1,798	1,489	930	533	113.6	119.6	102.0	115.0	101.8
Reduction In Floorspace	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	307	418	304	196	93	2,780	3,719	3,124	2,449	1,047	110.5	112.3	97.2	80.0	88.7
Wall or Roof Replacement	182	233	211	97	54	1,723	2,178	2,280	1,316	573	105.7	107.1	92.5	73.7	94.5
Interior Wall															
Re-Configuration	219	285	224	125	58	1,983	2,300	2,297	1,388	550	110.4	124.1	97.4	89.8	106.2
HVAC Equipment Upgrade	262	345	292	187	72	2,415	3,076	2,660	1,879	738	108.4	112.0	109.6	99.4	97.2
Lighting Upgrade	274	339	263	148	61	2,492	3,124	2,353	1,707	600	110.1	108.6	111.7	86.8	101.1
Window Replacement	133	234	175	53	Q	1,384	2,142	1,938	650	241	96.0	109.1	90.1	81.3	Q
Plumbing System Upgrade	184	230	189	106	Q	1,616	1,939	1,948	1,204	437	113.5	118.7	97.1	88.1	Q
Insulation Upgrade	90	110	105	55	Q	907	1,181	1,079	583	265	99.5	93.3	97.6	93.8	Q
Other Renovation	Q	Q	Q	Q	N	Q	Q	Q	Q	N	Q	Q	Q	Q	N
No Renovations Since 1980	282	536	306	239	119	3,217	5,893	3,291	4,329	1,983	87.5	91.0	92.9	55.3	59.8
Building Newer than 1980	375	733	485	837	590	4,177	6,785	4,823	9,658	7,267	89.7	108.0	100.5	86.7	81.1
Energy Sources (more than one may apply)															
Electricity	1,086	1,929	1,243	1,386	879	11,300	18,549	12,374	17,064	10,894	96.1	104.0	100.4	81.2	80.7
Natural Gas	893	1,551	990	1,054	555	8,486	14,122	8,970	11,796	5,098	105.2	109.8	110.3	89.3	108.9
Fuel Oil	303	529	539	284	212	2,624	4,285	4,950	2,528	1,878	115.6	123.4	108.8	112.3	112.9
District Heat	Q	Q	228	Q	Q	825	1,917	1,349	1,025	460	Q	Q	168.7	Q	Q
District Chilled Water	Q	Q	Q	Q	Q	350	698	514	659	633	Q	Q	Q	Q	Q
Propane	118	214	71	123	57	1,607	2,036	1,102	1,403	928	73.7	105.2	64.7	87.8	61.9
Other	45	33	Q	Q	Q	483	378	268	223	Q	94.1	87.6	Q	Q	Q

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Table C10. Consumption and Gross Energy Intensity by Climate Zone^a for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)					Total Floorspace of Buildings (million square feet)					Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	990	1,761	1,134	1,213	724	10,622	17,335	11,504	15,739	9,584	93.2	101.6	98.5	77.0	75.5
Space-Heating Energy Sources (more than one may apply)															
Electricity	406	663	577	615	551	4,620	6,930	5,818	8,674	7,156	88.0	95.7	99.2	70.9	77.0
Natural Gas	818	1,335	757	903	330	7,970	12,658	7,002	10,350	3,128	102.7	105.5	108.1	87.3	105.4
Fuel Oil	149	161	242	Q	Q	1,563	1,687	2,418	385	Q	95.3	95.7	Q	Q	Q
District Heat	Q	Q	222	Q	Q	818	1,882	1,281	918	432	Q	Q	173.0	Q	Q
Propane	34	24	Q	Q	Q	849	650	Q	755	Q	39.5	36.7	37.7	Q	Q
Other	Q	Q	Q	Q	Q	339	208	Q	Q	Q	79.7	Q	Q	Q	Q
Primary Space-Heating Energy Source															
Electricity	171	266	230	376	450	1,984	3,236	2,859	5,863	6,274	86.4	82.1	80.3	64.2	71.8
Natural Gas	738	1,209	688	781	280	7,264	11,744	6,310	8,738	2,616	101.6	103.0	109.0	89.4	107.2
Fuel Oil	79	99	Q	Q	Q	962	1,283	1,587	Q	Q	82.3	77.3	Q	Q	Q
District Heat	Q	Q	212	Q	Q	752	1,771	1,231	883	Q	Q	Q	172.6	Q	Q
Propane	11	14	Q	Q	Q	394	492	Q	423	Q	29.1	29.2	35.4	Q	Q
Other	Q	Q	Q	Q	N	Q	Q	Q	Q	N	Q	Q	Q	Q	N
Cooling Energy Sources (more than one may apply)															
Electricity	944	1,605	1,099	1,267	790	9,092	15,265	11,279	15,330	9,974	103.9	105.1	97.4	82.7	79.2
Natural Gas	Q	Q	Q	Q	Q	Q	358	Q	Q	Q	Q	Q	Q	Q	Q
District Chilled Water	Q	Q	Q	Q	Q	350	698	514	659	633	Q	Q	Q	Q	Q
Water-Heating Energy Sources (more than one may apply)															
Electricity	383	673	503	626	453	4,685	7,610	5,923	8,077	6,274	81.7	88.4	85.0	77.5	72.2
Natural Gas	663	1,067	661	797	416	6,152	9,299	5,421	8,047	3,393	107.8	114.7	121.9	99.1	122.5
Fuel Oil	48	53	Q	Q	Q	389	505	933	Q	Q	124.1	105.6	Q	Q	Q
District Heat	Q	Q	178	Q	Q	582	787	1,073	695	Q	Q	Q	165.9	Q	Q
Propane	Q	Q	Q	Q	Q	341	312	Q	260	Q	Q	Q	44.9	Q	Q
Cooking Energy Sources (more than one may apply)															
Electricity	256	513	279	288	243	2,123	4,210	2,235	2,472	2,120	120.6	121.8	125.0	116.3	114.8
Natural Gas	298	568	470	454	283	2,217	4,071	3,464	3,518	2,167	134.4	139.6	135.8	129.1	130.6
Propane	27	Q	Q	Q	Q	354	259	Q	387	Q	75.5	Q	Q	Q	Q
Energy End Uses (more than one may apply)															
Buildings with Space Heating	986	1,750	1,127	1,168	674	10,109	16,720	11,239	13,965	7,995	97.5	104.7	100.2	83.7	84.3
Buildings with Cooling	906	1,553	1,106	1,178	721	8,550	14,524	10,946	13,977	8,943	105.9	106.9	101.1	84.3	80.7
Buildings with Water Heating	966	1,571	1,116	1,160	686	9,474	15,160	10,785	13,192	7,867	102.0	103.6	103.4	87.9	87.2
Buildings with Cooking	408	805	586	538	374	3,302	6,369	4,736	4,621	3,208	123.7	126.4	123.8	116.5	116.6
Buildings with Manufacturing	61	64	79	44	Q	855	729	772	608	Q	71.5	88.2	102.9	73.1	Q
Buildings with Electricity Generation	240	571	396	296	190	1,764	3,862	2,973	2,583	1,639	135.9	147.8	133.3	114.7	115.8
Percent of Floorspace Heated															
Not Heated	100	178	116	217	205	1,420	2,088	1,263	3,665	3,194	70.5	85.5	91.9	59.3	64.3
1 to 50	42	62	73	84	37	1,111	1,109	1,325	1,845	1,460	38.2	56.0	55.3	45.3	25.3
51 to 99	139	168	160	180	100	1,377	1,735	1,713	2,349	932	100.6	96.6	93.5	76.6	107.4
100	805	1,521	893	905	537	7,620	13,876	8,202	9,772	5,602	105.6	109.6	108.9	92.6	95.9

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Table C10. Consumption and Gross Energy Intensity by Climate Zone^a for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)					Total Floorspace of Buildings (million square feet)					Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	990	1,761	1,134	1,213	724	10,622	17,335	11,504	15,739	9,584	93.2	101.6	98.5	77.0	75.5
Percent of Floorspace Cooled															
Not Cooled	180	376	137	208	158	2,979	4,283	1,557	3,654	2,245	60.5	87.8	87.7	56.8	70.4
1 to 50	270	325	218	166	49	3,133	4,657	3,422	3,480	1,906	86.0	69.7	63.6	47.6	25.5
51 to 99	255	425	375	233	126	2,327	3,568	3,297	2,803	1,215	109.5	119.0	113.6	83.2	103.3
100	381	804	514	779	547	3,089	6,300	4,227	7,693	5,822	123.5	127.6	121.6	101.3	94.0
Percent Lit When Open															
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	129	166	112	75	58	1,956	2,667	2,132	2,066	1,382	65.8	62.3	52.6	36.5	41.7
51 to 99	346	488	378	286	238	3,666	4,929	3,133	3,804	2,756	94.4	99.1	120.5	75.2	86.3
100	505	1,081	634	845	425	4,362	8,654	5,924	8,979	4,870	115.7	124.9	107.0	94.1	87.3
Building Never Open/ Electricity Not Used	Q	Q	Q	Q	Q	597	1,064	282	808	459	Q	Q	Q	Q	Q
Percent Lit When Closed															
Zero	236	396	148	212	141	3,536	4,589	2,252	4,370	2,637	66.7	86.2	65.7	48.5	53.5
1 to 50	478	777	502	557	312	4,772	8,916	5,541	7,172	4,546	100.2	87.1	90.6	77.7	68.6
51 to 100	Q	Q	Q	Q	45	263	409	442	478	501	Q	Q	Q	Q	90.7
Building Never Closed/ Electricity Not Used	244	518	430	410	225	2,051	3,421	3,269	3,718	1,899	119.0	151.3	131.6	110.3	118.6
Heating Equipment (more than one may apply)															
Heat Pumps	75	176	213	222	119	727	1,471	1,971	3,283	1,361	102.8	119.7	108.2	67.5	87.6
Packaged Heat Pumps	Q	Q	144	125	93	433	995	1,267	1,749	997	Q	112.6	113.5	71.2	93.4
Split-System Heat Pumps	Q	Q	Q	66	29	Q	227	686	1,140	419	Q	Q	112.4	58.0	69.1
Individual Room Heat Pumps	Q	Q	56	64	Q	Q	497	537	1,021	287	Q	Q	105.0	62.6	Q
Furnaces	370	512	207	286	118	4,587	6,411	2,648	4,313	1,658	80.6	79.9	78.0	66.4	71.1
Individual Space Heaters	236	314	247	166	60	3,014	3,582	2,524	2,569	856	78.4	87.7	98.0	64.5	70.2
District Heat	Q	Q	218	Q	Q	801	1,749	1,266	918	432	Q	Q	171.9	Q	Q
Boilers	435	740	533	381	155	4,060	6,835	4,693	3,334	1,500	107.1	108.3	113.5	114.3	103.6
Packaged Heating Units	239	441	326	435	287	2,126	3,708	3,204	5,619	3,365	112.5	119.0	101.6	77.5	85.4
Other	63	58	Q	25	48	816	674	497	525	750	77.4	85.4	Q	47.3	63.9
Cooling Equipment (more than one may apply)															
Residential-Type Central															
Air Conditioners	197	273	219	152	83	1,971	3,078	2,207	2,056	1,723	99.9	88.7	99.1	73.8	48.4
Heat Pumps	76	182	221	233	125	739	1,542	1,998	3,398	1,365	102.8	118.1	110.5	68.6	91.7
Packaged Heat Pumps	50	Q	155	118	90	453	1,033	1,337	1,679	924	110.3	112.8	115.6	70.2	97.0
Split-System Heat Pumps	Q	Q	Q	70	31	Q	247	703	1,127	458	Q	Q	111.6	61.7	68.0
Individual Room Heat Pumps	Q	Q	55	78	Q	377	510	523	1,190	340	Q	Q	104.7	65.2	Q
Individual Air Conditioners	234	358	210	192	86	2,321	3,633	2,786	2,565	1,253	100.8	98.5	75.5	74.7	68.7
District Chilled Water	Q	Q	Q	Q	Q	350	698	514	659	633	Q	Q	Q	Q	Q
Central Chillers	200	433	348	326	225	1,604	2,658	2,473	2,695	2,205	124.7	162.8	140.7	120.9	101.8
Packaged Air Conditioning															
Units	505	858	588	600	312	4,565	7,740	6,076	7,703	3,884	110.6	110.8	96.8	77.8	80.4
Swamp Coolers	57	38	Q	Q	Q	515	468	Q	346	Q	111.7	81.6	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	336	Q	Q	Q	Q	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)															
Heating	263	481	273	229	122	3,263	4,981	3,204	3,195	1,759	80.5	96.5	85.1	71.7	69.4
Cooling	361	656	452	288	192	3,555	5,895	4,827	4,112	2,606	101.7	111.2	93.6	70.0	73.7

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Table C10. Consumption and Gross Energy Intensity by Climate Zone^a for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)					Total Floorspace of Buildings (million square feet)					Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	990	1,761	1,134	1,213	724	10,622	17,335	11,504	15,739	9,584	93.2	101.6	98.5	77.0	75.5
Water Heating Equipment															
Centralized System	684	958	683	697	411	6,315	9,553	6,774	7,444	4,585	108.4	100.3	100.8	93.6	89.6
Distributed System	102	244	167	187	134	1,468	2,954	2,015	3,009	2,094	69.8	82.6	83.0	62.2	64.2
Combination of Centralized and Distributed System	180	369	266	276	141	1,691	2,654	1,996	2,739	1,187	106.1	139.0	133.2	100.7	118.4
Lighting Equipment Types (more than one may apply)															
Incandescent	674	1,156	854	770	461	7,016	10,308	8,192	7,939	5,073	96.1	112.2	104.3	97.0	90.9
Standard Fluorescent	965	1,696	1,107	1,178	698	9,783	16,090	10,871	14,316	8,627	98.7	105.4	101.8	82.3	80.9
Compact Fluorescent	529	882	745	693	358	4,667	6,835	6,292	6,439	3,339	113.5	129.1	118.5	107.6	107.3
High Intensity Discharge	395	738	439	343	226	3,955	6,149	4,385	3,863	2,292	99.9	120.0	100.0	88.9	98.7
Halogen	356	550	417	434	225	2,762	4,485	3,903	4,117	2,435	128.8	122.5	106.9	105.5	92.2
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	142.6	198.5	Q
Refrigeration Equipment (more than one may apply)^p															
Any Refrigeration.....	887	1,526	1,030	1,102	669	8,673	14,438	9,893	12,329	7,640	102.2	105.7	104.1	89.4	87.6
Commercial Refrigeration	504	975	705	711	441	4,106	7,355	5,702	5,784	3,821	122.8	132.5	123.7	122.9	115.3
Walk-In Units	408	788	565	630	375	3,188	5,353	4,341	4,490	2,882	127.9	147.2	130.2	140.3	130.0
Cases or Cabinets	401	776	575	572	378	2,950	5,523	4,191	4,586	3,174	135.9	140.5	137.3	124.8	119.0
Residential-Type Units	632	1,076	689	635	435	6,713	10,957	7,367	8,479	5,369	94.1	98.2	93.6	74.8	80.9
Vending Machines	609	1,102	729	782	499	5,824	9,186	6,729	8,220	5,375	104.7	119.9	108.3	95.1	92.8
No Refrigeration	103	235	104	111	55	1,949	2,897	1,611	3,410	1,944	53.0	81.1	64.3	32.5	28.1
Office Equipment (more than one may apply)															
Computers	919	1,595	1,078	1,100	684	8,976	14,756	10,556	13,086	8,253	102.3	108.1	102.2	84.0	82.8
With Flat Screen Monitors	413	828	742	585	398	3,629	6,548	6,204	6,118	3,919	113.9	126.5	119.5	95.6	101.5
Dedicated Servers	592	1,099	851	762	456	5,673	9,426	7,813	8,157	5,269	104.4	116.6	108.9	93.4	86.6
Laser Printers	558	924	565	585	377	5,811	8,950	5,910	7,675	4,666	95.9	103.3	95.6	76.2	80.9
Inkjet Printers	599	861	696	706	440	5,523	7,781	6,220	7,556	5,130	108.5	110.7	111.8	93.4	85.8
FAX Machines	865	1,450	1,056	1,067	653	8,446	13,443	10,336	12,438	7,710	102.5	107.8	102.2	85.8	84.7
Photocopiers	744	1,312	935	919	555	7,181	12,244	9,222	10,780	6,828	103.6	107.1	101.4	85.3	81.3
Number of Computers															
None	71	165	55	113	40	1,646	2,579	948	2,652	1,331	43.2	64.1	58.1	42.6	30.1
1 to 4	201	324	134	220	136	2,242	3,537	1,801	3,206	1,608	89.6	91.6	74.5	68.6	84.8
5 to 9	123	157	96	95	74	1,392	1,946	1,206	1,572	1,063	88.3	80.5	80.0	60.7	69.8
10 to 19	106	153	90	106	59	1,057	1,724	1,032	1,568	1,228	100.4	89.0	87.2	67.6	48.4
20 to 49	126	186	154	168	71	1,239	2,045	1,441	1,729	960	102.1	91.2	107.0	97.4	74.5
50 to 99	84	119	93	148	69	740	1,124	1,078	1,547	887	113.1	105.9	Q	95.9	77.3
100 to 249	141	191	148	160	74	1,266	1,554	1,389	1,626	855	111.3	123.2	106.3	98.5	86.1
250 or More	138	464	363	201	200	1,040	2,825	2,610	1,837	1,652	132.5	164.4	139.1	109.6	121.0
Number of Dedicated Servers															
None	398	662	283	450	268	4,949	7,909	3,691	7,581	4,315	80.3	83.7	76.6	59.4	62.0
1 to 4	433	600	471	492	237	4,305	6,249	4,591	5,624	3,346	100.6	96.0	102.6	87.6	70.9
5 to 9	35	117	Q	90	Q	516	980	1,078	884	405	67.7	119.5	112.8	101.3	Q
10 to 19	62	160	59	82	Q	412	965	455	724	472	150.2	165.6	129.6	113.0	Q
20 to 49	Q	Q	Q	Q	Q	252	428	586	604	713	Q	Q	Q	Q	Q
50 or More	Q	155	119	Q	Q	Q	804	1,102	321	Q	Q	192.7	107.7	Q	Q

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Table C10. Consumption and Gross Energy Intensity by Climate Zone^a for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)					Total Floorspace of Buildings (million square feet)					Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	990	1,761	1,134	1,213	724	10,622	17,335	11,504	15,739	9,584	93.2	101.6	98.5	77.0	75.5
Number of Photocopiers															
None	246	449	198	293	168	3,440	5,090	2,281	4,958	2,756	71.4	88.1	86.9	59.2	61.1
One	243	343	177	246	121	2,653	4,546	2,337	3,806	2,133	91.6	75.4	75.6	64.7	56.9
2 to 4	256	369	244	302	164	2,655	3,694	2,833	3,554	2,345	96.2	99.9	86.0	85.0	69.9
5 to 9	95	181	119	132	85	863	1,386	1,219	1,326	721	110.2	130.5	97.4	99.7	117.8
10 or More	150	419	396	239	185	1,010	2,619	2,833	2,093	1,629	148.9	160.1	139.9	113.9	113.5
Energy-Related Space Functions (more than one may apply)															
Commercial Food Preparation	408	804	586	538	374	3,302	6,358	4,736	4,620	3,208	123.7	126.4	123.8	116.5	116.6
Activities with Large Amounts of Hot Water	424	727	485	570	259	3,451	5,260	4,091	4,479	2,200	122.8	138.2	118.5	127.4	117.9
Separate Computer Area	414	877	683	580	340	3,713	7,143	5,988	6,266	3,763	111.6	122.8	114.0	92.6	90.5
HVAC Conservation Features (more than one may apply)															
Variable Air-Volume System	364	672	516	488	340	2,985	4,852	4,086	4,201	3,473	122.0	138.5	126.3	116.1	98.0
Economizer Cycle	447	780	591	489	282	3,804	5,533	4,736	4,630	2,406	117.5	141.0	124.8	105.6	117.1
HVAC Maintenance	829	1,595	1,017	1,064	665	8,045	14,309	9,597	11,542	7,670	103.0	111.5	105.9	92.2	86.7
Energy Management and Control System (EMCS)	282	495	424	327	254	2,438	3,834	3,284	3,546	2,528	115.8	129.2	129.2	92.1	100.4
Window and Interior Lighting Features (more than one may apply)															
Multipaned Windows	811	1,288	787	696	348	8,109	11,763	7,855	7,264	3,919	100.0	109.5	100.2	95.8	88.9
Tinted Window Glass	417	941	629	648	464	3,628	7,587	5,356	7,883	5,434	114.9	124.0	117.4	82.2	85.3
Reflective Window Glass	127	258	217	194	131	1,259	2,139	1,733	2,066	1,347	100.5	120.6	125.4	94.0	96.9
External Overhangs or Awnings	288	486	304	401	257	2,640	4,510	3,003	4,424	2,665	109.1	107.8	101.3	90.6	96.5
Skylights or Atriums	253	407	278	213	156	2,164	3,572	2,573	2,596	1,640	116.8	114.0	108.1	82.0	95.1
Daylighting Sensors	80	Q	Q	60	Q	574	837	413	618	426	138.6	147.4	Q	97.6	Q
Specular Reflectors	493	931	603	521	281	4,446	7,579	5,238	5,892	2,961	110.9	122.8	115.2	88.4	94.7
Electronic Ballasts	859	1,357	948	975	608	8,390	11,771	8,922	10,876	6,923	102.3	115.3	106.2	89.7	87.8
Energy Management and Control System (EMCS) For Lighting	84	148	134	77	95	756	1,249	881	899	997	111.8	118.8	151.8	85.4	95.5
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)^b															
Heating	635	1,096	843	736	431	6,995	11,651	8,469	10,227	5,380	90.7	94.1	99.5	71.9	80.1
Cooling	621	1,053	858	777	535	6,309	10,745	8,843	10,627	6,681	98.4	98.0	97.1	73.1	80.1
Lighting	711	1,203	662	771	471	7,959	12,889	7,802	11,312	7,025	89.3	93.3	84.9	68.2	67.1
Office Equipment	296	489	257	254	168	3,401	5,473	3,238	4,319	2,966	87.0	89.4	79.5	58.9	56.8

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Table C10. Consumption and Gross Energy Intensity by Climate Zone^a for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)					Total Floorspace of Buildings (million square feet)					Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	990	1,761	1,134	1,213	724	10,622	17,335	11,504	15,739	9,584	93.2	101.6	98.5	77.0	75.5

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>.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

^a Climate zone (30-year average) definitions: Zone 1 = Under 2,000 CDD and more than 7,000 HDD; Zone 2 = Under 2,000 CDD and 5,500-7,000 HDD; Zone 3 = Under 2,000 CDD and 4,000-5,499 HDD; Zone 4 = Under 2,000 CDD and fewer than 4,000 HDD; Zone 5 = 2,000 CDD or more and fewer than 4,000 HDD. (See "Glossary" for definitions of CDD and HDD.)

^b The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: • Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. • HVAC = Heating, Ventilation, and Air Conditioning. • Due to rounding, data may not sum to totals.

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

Table C11. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
All Buildings*	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
Principal Building Activity									
Education	63	423	334	808	5,378	3,687	78.3	78.6	90.7
Food Sales	144	Q	Q	765	467	Q	188.5	Q	Q
Food Service	318	108	Q	986	664	Q	322.9	163.2	Q
Health Care	32	104	457	445	835	1,883	71.8	125.1	242.9
Inpatient	N	Q	436	N	182	1,723	N	Q	252.9
Outpatient	32	66	Q	445	652	160	71.8	100.5	Q
Lodging	29	207	273	260	2,274	2,563	111.0	91.2	106.7
Retail (Other Than Mall).....	110	137	72	1,363	2,133	821	80.9	64.1	87.8
Office	171	412	551	2,320	4,602	5,286	73.5	89.5	104.2
Public Assembly	59	150	Q	854	1,851	1,233	69.5	80.8	Q
Public Order and Safety	22	Q	Q	231	390	Q	94.3	Q	Q
Religious Worship	54	100	Q	1,160	2,391	Q	46.5	41.8	Q
Service	120	144	Q	1,755	1,862	Q	68.4	77.2	Q
Warehouse and Storage	47	157	253	1,763	4,601	3,714	26.4	34.1	68.0
Other	Q	100	Q	215	601	922	Q	166.8	Q
Vacant	Q	Q	Q	447	1,211	909	Q	Q	Q
Year Constructed									
Before 1920	77	162	Q	991	1,972	805	77.7	82.4	Q
1920 to 1945	130	175	314	1,623	2,466	2,781	80.2	71.2	113.0
1946 to 1959	114	220	231	1,503	3,283	2,258	76.1	66.9	102.4
1960 to 1969	133	350	254	1,555	4,177	2,369	85.4	83.7	107.3
1970 to 1979	206	367	450	2,297	4,735	3,740	89.8	77.5	120.3
1980 to 1989	182	342	509	1,870	4,211	4,251	97.4	81.3	119.8
1990 to 1999	274	401	423	2,533	5,798	4,029	108.0	69.2	105.0
2000 to 2003	71	191	180	1,001	2,618	1,915	70.8	72.8	93.8
Census Region and Division									
Northeast	220	458	594	2,149	5,303	5,454	102.4	86.3	108.8
New England	71	134	Q	719	1,416	829	98.4	94.8	Q
Middle Atlantic	149	323	505	1,430	3,887	4,624	104.4	83.2	109.2
Midwest	322	687	680	3,460	7,925	5,695	93.2	86.7	119.5
East North Central	219	451	583	1,816	5,170	4,608	120.5	87.3	126.5
West North Central	104	235	97	1,644	2,755	1,086	63.0	85.4	89.5
South	425	711	813	5,191	10,981	7,317	81.9	64.7	111.1
South Atlantic	219	361	484	2,593	5,382	4,282	84.5	67.1	112.9
East South Central	59	159	92	931	1,958	505	63.0	81.2	181.5
West South Central	147	190	237	1,667	3,640	2,530	88.4	52.3	93.8
West	220	353	338	2,574	5,052	3,684	85.5	69.9	91.8
Mountain	80	155	147	883	1,716	1,076	90.9	90.1	136.4
Pacific	140	198	191	1,692	3,335	2,608	82.7	59.5	73.4
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	245	427	318	2,504	4,981	3,137	98.0	85.7	101.2
5,500-7,000 HDD	312	673	775	3,306	7,971	6,058	94.4	84.5	128.0
4,000-5,499 HDD	164	407	562	1,969	4,516	5,018	83.1	90.2	112.1
Fewer than 4,000 HDD	309	427	477	3,769	7,033	4,936	82.1	60.7	96.6
2,000 CDD or More and --									
Fewer than 4,000 HDD	157	274	293	1,826	4,759	2,999	86.1	57.5	97.6

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Table C11. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
All Buildings*	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
Number of Floors									
One	828	802	307	9,342	12,643	3,996	88.7	63.4	76.9
Two	264	732	315	3,030	9,194	4,045	87.1	79.6	77.9
Three	81	322	216	846	4,227	2,428	96.2	76.3	88.8
Four to Nine	Q	340	983	155	3,078	6,851	Q	110.4	143.4
Ten or More	N	Q	604	N	Q	4,828	N	Q	125.1
Elevators and Escalators (more than one may apply)									
Any Elevators	Q	789	2,005	286	8,036	16,296	Q	98.2	123.0
Number of Elevators									
One	Q	482	218	286	5,190	2,745	Q	92.8	79.4
Two to Five	N	303	855	N	2,799	7,329	N	108.1	116.6
Six or More	N	Q	932	N	Q	6,222	N	Q	149.8
Any Escalators	Q	Q	275	Q	Q	2,257	Q	Q	121.9
Number of Workers (main shift)									
Fewer than 5	496	194	Q	7,981	5,932	1,579	62.2	32.7	Q
5 to 9	278	175	Q	2,637	3,202	Q	105.6	54.7	Q
10 to 19	248	284	Q	1,798	4,940	1,066	138.0	57.6	Q
20 to 49	136	751	163	844	7,898	2,247	160.5	95.1	72.7
50 to 99	Q	437	275	Q	4,492	3,368	Q	97.3	81.6
100 to 249	Q	313	511	Q	2,377	4,455	Q	131.7	114.7
250 or More	N	53	1,271	N	419	9,109	N	127.4	139.6
Weekly Operating Hours									
Fewer than 40	117	79	Q	3,029	2,790	1,044	38.6	28.4	Q
40 to 48	210	378	185	3,415	6,136	2,071	61.5	61.6	89.5
49 to 60	221	518	440	2,909	8,031	4,783	76.1	64.5	92.0
61 to 84	221	437	266	1,578	5,209	3,547	139.9	84.0	75.0
85 to 167	266	330	293	1,222	2,938	2,932	217.6	112.4	100.0
Open Continuously	153	465	1,209	1,221	4,156	7,771	125.0	111.9	155.5
Ownership and Occupancy									
Nongovernment Owned	1,062	1,580	1,561	11,871	22,176	15,374	89.5	71.2	101.5
Owner Occupied	449	736	875	5,540	10,688	7,363	81.1	68.9	118.8
Nonowner Occupied	609	834	672	5,953	10,621	7,339	102.3	78.5	91.5
Unoccupied	Q	Q	Q	377	867	Q	Q	Q	Q
Government Owned	125	628	864	1,504	7,084	6,775	83.3	88.7	127.5
Federal	Q	Q	255	Q	402	1,471	Q	Q	173.1
State	Q	199	278	302	1,755	1,751	Q	113.3	158.8
Local	83	386	331	1,119	4,927	3,553	74.5	78.4	93.1
Vacancy Status									
Completely Vacant	Q	Q	Q	405	918	838	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	83	350	652	1,443	4,519	6,420	57.8	77.5	101.6
Not At All Vacant	1,099	1,833	1,749	11,484	23,530	14,820	95.7	77.9	118.0

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Table C11. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
All Buildings*	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
Number of Establishments									
One	1,035	1,657	1,474	10,917	21,123	13,104	94.8	78.5	112.5
2 to 5	140	390	462	1,947	5,307	3,705	71.9	73.5	124.7
6 to 10	Q	87	121	Q	1,011	872	Q	86.5	139.3
11 to 20	Q	44	108	Q	624	1,325	Q	70.4	81.2
More than 20	Q	Q	238	Q	277	2,305	Q	Q	103.1
Currently Unoccupied	Q	Q	Q	405	918	838	Q	Q	Q
Predominant Exterior Wall Material									
Brick, Stone or Stucco	652	1,263	1,271	5,838	15,926	11,052	111.7	79.3	115.0
Concrete (Block or Poured)	201	430	343	2,074	5,357	3,402	96.9	80.3	100.8
Concrete Panels	Q	166	468	275	2,014	4,270	Q	82.3	109.5
Siding or Shingles	173	80	Q	2,274	1,555	Q	76.0	51.6	Q
Metal Panels	108	223	131	2,668	3,819	1,425	40.5	58.5	92.3
Window Glass	Q	Q	74	Q	231	762	Q	Q	97.3
Other	Q	Q	Q	Q	229	770	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material									
Built-Up	348	783	953	2,725	9,595	8,850	127.5	81.6	107.7
Shingles (Not Wood)	322	357	Q	3,901	4,888	1,406	82.5	72.9	Q
Metal Surfacing	186	319	124	4,021	6,356	1,567	46.3	50.2	79.3
Synthetic or Rubber	205	553	891	1,352	5,667	7,710	151.3	97.6	115.6
Slate or Tile	76	99	Q	776	1,296	391	97.3	76.0	Q
Wooden Materials	24	Q	Q	336	403	Q	72.6	Q	Q
Concrete	Q	Q	Q	158	455	1,618	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation									
Since 1980	280	699	788	2,924	8,005	6,916	95.7	87.3	113.9
Addition or Annex	75	260	398	668	2,805	3,079	112.9	92.6	129.2
Reduction In Floorspace	Q	Q	Q	Q	420	550	Q	Q	Q
Cosmetic Improvements	201	515	601	2,107	5,906	5,105	95.6	87.2	117.7
Wall or Roof Replacement	99	262	416	1,177	2,989	3,904	84.2	87.8	106.5
Interior Wall									
Re-Configuration	109	287	515	1,181	3,222	4,115	92.2	89.1	125.2
HVAC Equipment Upgrade	114	431	611	1,175	4,662	4,931	97.4	92.5	123.9
Lighting Upgrade	103	426	556	1,204	4,417	4,654	85.9	96.3	119.5
Window Replacement	77	250	286	873	2,847	2,633	88.0	87.9	108.5
Plumbing System Upgrade	87	245	416	890	2,735	3,519	97.4	89.6	118.3
Insulation Upgrade	46	150	184	640	1,655	1,719	72.6	90.6	107.1
Other Renovation	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	381	576	525	5,047	8,629	5,038	75.5	66.7	104.2
Building Newer than 1980	527	934	1,112	5,404	12,627	10,195	97.5	74.0	109.1

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Table C11. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
All Buildings*	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
Energy Sources (more than one may apply)									
Electricity	1,187	2,208	2,425	12,543	28,786	21,977	94.7	76.7	110.3
Natural Gas	852	1,736	1,903	6,776	19,761	16,931	125.7	87.9	112.4
Fuel Oil	123	352	1,285	1,317	3,532	10,308	93.6	99.6	124.7
District Heat	Q	239	763	Q	1,232	4,111	Q	194.3	185.6
District Chilled Water	Q	121	411	Q	694	2,111	Q	174.0	194.5
Propane	102	155	327	1,531	2,577	2,968	66.5	60.3	110.3
Other	17	59	Q	429	583	388	39.6	101.1	Q
Space-Heating Energy Sources (more than one may apply)									
Electricity	424	961	989	4,927	13,154	10,519	86.0	73.0	94.0
Natural Gas	745	1,511	1,425	6,187	17,733	13,038	120.5	85.2	109.3
Fuel Oil	108	128	355	1,183	1,760	3,045	91.1	72.4	116.7
District Heat	Q	235	744	Q	1,173	3,924	Q	200.3	189.7
Propane	58	49	Q	1,194	1,305	Q	48.5	37.8	Q
Other	13	32	Q	410	347	Q	32.0	91.7	Q
Primary Space-Heating Energy Source									
Electricity	289	492	308	3,465	7,876	4,656	83.3	62.5	66.2
Natural Gas	681	1,338	1,261	5,741	15,927	11,302	118.6	84.0	111.6
Fuel Oil	94	89	Q	913	1,268	1,637	103.3	70.5	Q
District Heat	Q	226	710	Q	1,112	3,695	Q	203.6	192.2
Propane	45	24	Q	1,009	858	Q	44.9	27.5	Q
Other	Q	Q	Q	226	Q	Q	Q	Q	Q
Cooling Energy Sources (more than one may apply)									
Electricity	1,073	2,013	1,935	10,360	25,385	18,575	103.6	79.3	104.2
Natural Gas	Q	Q	118	Q	298	683	Q	Q	173.6
District Chilled Water	Q	121	411	Q	694	2,111	Q	174.0	194.5
Water-Heating Energy Sources (more than one may apply)									
Electricity	463	893	788	5,669	12,392	9,430	81.7	72.1	83.6
Natural Gas	593	1,277	1,336	3,995	13,529	11,296	148.4	94.4	118.3
Fuel Oil	Q	48	112	285	694	900	Q	69.1	Q
District Heat	Q	Q	465	Q	555	2,507	Q	Q	185.4
Propane	Q	39	Q	374	853	Q	Q	45.2	Q
Cooking Energy Sources (more than one may apply)									
Electricity	215	444	920	1,114	4,754	7,292	193.1	93.5	126.1
Natural Gas	333	537	1,203	1,190	4,975	9,273	280.3	107.9	129.8
Propane	Q	43	Q	295	714	Q	Q	60.4	Q

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Table C11. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
All Buildings*	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
Energy End Uses (more than one may apply)									
Buildings with Space Heating	1,130	2,181	2,394	11,454	27,165	21,408	98.6	80.3	111.8
Buildings with Cooling	1,079	2,101	2,284	10,416	26,030	20,495	103.6	80.7	111.4
Buildings with Water Heating	1,093	2,126	2,280	10,107	25,708	20,663	108.1	82.7	110.3
Buildings with Cooking	452	769	1,492	2,133	8,041	12,063	211.8	95.6	123.7
Buildings with Manufacturing	21	109	124	330	1,326	1,482	64.8	81.9	83.9
Buildings with Electricity Generation	Q	388	1,284	199	3,074	9,547	Q	126.3	134.5
Percent of Floorspace Heated									
Not Heated	58	27	Q	1,920	2,095	740	30.0	13.0	Q
1 to 50	92	150	57	1,627	3,499	1,723	56.3	42.9	32.8
51 to 99	153	246	348	1,455	3,286	3,365	104.9	74.8	103.4
100	886	1,785	1,990	8,372	20,380	16,320	105.8	87.6	121.9
Percent of Floorspace Cooled									
Not Cooled	108	107	Q	2,959	3,231	1,654	36.6	33.1	Q
1 to 50	205	534	287	2,909	8,811	4,877	70.3	60.6	58.9
51 to 99	215	469	729	1,775	5,265	6,170	120.9	89.2	118.1
100	660	1,098	1,268	5,731	11,953	9,447	115.2	91.8	134.2
Percent Lit When Open									
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	155	260	125	2,495	5,662	2,046	62.2	45.8	61.3
51 to 99	279	680	777	3,154	8,556	6,579	88.5	79.4	118.1
100	740	1,251	1,499	6,390	13,779	12,620	115.8	90.8	118.8
Building Never Open/ Electricity Not Used	Q	Q	Q	1,186	1,130	893	Q	Q	Q
Percent Lit When Closed									
Zero	382	476	274	5,839	8,570	2,976	65.4	55.5	92.1
1 to 50	608	1,173	845	5,314	15,218	10,415	114.5	77.1	81.1
51 to 100	44	94	97	361	891	841	122.3	105.5	115.3
Building Never Closed/ Electricity Not Used	153	465	1,209	1,860	4,581	7,916	82.2	101.6	152.7
Heating Equipment (more than one may apply)									
Heat Pumps	91	327	387	1,147	4,074	3,593	79.4	80.2	107.7
Packaged Heat Pumps	62	192	269	686	2,402	2,354	89.8	79.8	114.4
Split-System Heat Pumps	26	98	Q	420	1,293	868	60.8	76.1	85.5
Individual Room Heat Pumps	Q	98	151	Q	1,113	1,509	Q	88.2	100.2
Furnaces	530	624	340	5,794	9,501	4,320	91.4	65.7	78.6
Individual Space Heaters	158	445	420	2,329	5,696	4,520	67.7	78.2	93.0
District Heat	Q	233	739	Q	1,162	3,903	Q	200.1	189.2
Boilers	156	821	1,267	1,234	8,490	10,699	126.2	96.7	118.4
Packaged Heating Units	365	730	634	2,758	8,541	6,722	132.2	85.4	94.3
Other	34	95	102	549	1,325	1,388	62.2	71.5	73.3

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Table C11. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
All Buildings*	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
Cooling Equipment (more than one may apply)									
Residential-Type Central									
Air Conditioners	274	385	265	3,091	5,245	2,699	88.6	73.4	98.1
Heat Pumps	105	329	403	1,239	4,036	3,766	85.1	81.5	106.9
Packaged Heat Pumps	70	194	264	761	2,370	2,295	92.5	82.0	115.0
Split-System Heat Pumps	31	99	Q	436	1,289	880	70.9	76.7	84.5
Individual Room Heat Pumps	Q	97	175	Q	1,096	1,774	Q	88.5	98.6
Individual Air Conditioners	155	454	471	1,984	5,999	4,576	77.9	75.7	102.9
District Chilled Water	Q	121	411	Q	694	2,111	Q	174.0	194.5
Central Chillers	Q	350	1,173	Q	2,907	8,666	Q	120.3	135.4
Packaged Air Conditioning									
Units	597	1,179	1,087	4,698	14,256	11,016	127.0	82.7	98.7
Swamp Coolers	46	76	Q	385	776	399	119.1	98.1	Q
Other	Q	Q	Q	Q	445	700	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	312	660	395	3,379	8,613	4,411	92.3	76.7	89.6
Cooling	402	835	712	3,903	10,012	7,080	102.9	83.4	100.5
Water Heating Equipment									
Centralized System	876	1,395	1,161	7,606	16,799	10,266	115.2	83.0	113.1
Distributed System	190	365	281	2,263	5,582	3,695	83.8	65.4	75.9
Combination of Centralized and Distributed System	Q	365	838	239	3,327	6,702	Q	109.8	125.1
Lighting Equipment Types (more than one may apply)									
Incandescent	614	1,457	1,846	5,979	16,896	15,653	102.7	86.2	117.9
Standard Fluorescent	1,125	2,138	2,381	11,305	27,126	21,256	99.5	78.8	112.0
Compact Fluorescent	316	1,078	1,814	2,232	10,936	14,403	141.5	98.5	126.0
High Intensity Discharge	127	670	1,344	998	7,559	12,086	127.5	88.7	111.2
Halogen	211	624	1,147	1,385	6,585	9,734	152.2	94.8	117.8
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)^a									
Any Refrigeration	1,001	1,955	2,257	9,071	23,752	20,150	110.4	82.3	112.0
Commercial Refrigeration	561	976	1,799	2,716	9,350	14,702	206.5	104.4	122.3
Walk-In Units	466	706	1,594	1,824	5,937	12,493	255.5	118.8	127.6
Cases or Cabinets	485	767	1,450	2,216	7,057	11,151	219.0	108.7	130.0
Residential-Type Units	526	1,339	1,601	6,783	17,774	14,328	77.5	75.4	111.8
Vending Machines	248	1,411	2,061	2,237	15,323	17,775	110.9	92.1	116.0
No Refrigeration	186	253	Q	4,303	5,508	1,998	43.3	46.0	Q

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Table C11. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
All Buildings*	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
Office Equipment (more than one may apply)									
Computers	920	2,120	2,335	8,727	26,064	20,837	105.4	81.3	112.1
With Flat Screen Monitors	238	983	1,745	2,173	10,178	14,065	109.6	96.6	124.0
Dedicated Servers	328	1,406	2,027	2,790	15,713	17,835	117.4	89.5	113.6
Laser Printers	577	1,244	1,188	5,598	16,584	10,830	103.0	75.0	109.7
Inkjet Printers	402	1,292	1,608	3,821	14,731	13,658	105.2	87.7	117.7
FAX Machines	806	2,004	2,282	7,520	24,274	20,580	107.2	82.5	110.9
Photocopiers	422	1,827	2,217	5,167	21,434	19,657	81.7	85.2	112.8
Number of Computers									
None	267	88	Q	4,647	3,197	1,312	57.5	27.5	Q
1 to 4	564	345	Q	5,366	5,844	1,185	105.2	59.1	Q
5 to 9	193	300	Q	1,725	4,428	1,027	111.9	67.8	Q
10 to 19	93	324	98	1,031	4,055	1,524	89.8	80.0	64.3
20 to 49	64	449	194	569	4,639	2,207	112.0	96.8	88.0
50 to 99	Q	296	212	Q	3,297	2,045	Q	89.8	103.9
100 to 249	Q	324	388	Q	3,165	3,522	Q	102.3	110.1
250 or More	N	81	1,285	N	636	9,327	N	127.8	137.8
Number of Dedicated Servers									
None	860	802	398	10,585	13,547	4,314	81.2	59.2	92.2
1 to 4	309	1,103	822	2,667	13,017	8,432	115.7	84.7	97.5
5 to 9	Q	153	238	Q	1,491	2,305	Q	102.4	103.4
10 to 19	Q	88	340	Q	603	2,370	Q	145.5	143.3
20 to 49	N	Q	257	N	482	2,101	N	Q	122.2
50 or More	N	Q	370	N	Q	2,627	N	Q	140.9
Number of Photocopiers									
None	765	381	208	8,208	7,827	2,492	93.3	48.7	83.4
One	301	658	171	3,817	8,993	2,665	78.8	73.2	64.1
2 to 4	105	791	438	1,257	8,908	4,917	83.4	88.8	89.1
5 to 9	Q	223	372	Q	2,032	3,390	Q	109.9	109.8
10 or More	N	154	1,236	N	1,500	8,685	N	102.6	142.3
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	452	767	1,492	2,131	8,029	12,063	212.0	95.6	123.7
Activities with Large Amounts of Hot Water	303	757	1,405	1,477	7,554	10,451	204.9	100.3	134.5
Separate Computer Area	87	959	1,849	969	10,433	15,471	89.8	92.0	119.5
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	162	690	1,529	1,048	6,736	11,813	154.5	102.4	129.4
Economizer Cycle	168	812	1,609	1,102	7,217	12,789	152.2	112.6	125.8
HVAC Maintenance	837	1,939	2,394	7,133	23,011	21,019	117.4	84.3	113.9
Energy Management and Control System (EMCS)	53	523	1,206	364	4,973	10,294	146.3	105.2	117.1

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Table C11. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
All Buildings*	1,188	2,208	2,425	13,374	29,260	22,149	88.8	75.5	109.5
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	677	1,478	1,774	6,243	17,321	15,346	108.4	85.3	115.6
Tinted Window Glass	406	980	1,712	3,791	12,179	13,917	107.0	80.5	123.0
Reflective Window Glass	75	285	567	697	2,932	4,915	107.1	97.3	115.3
External Overhangs or Awnings	436	643	658	3,655	7,868	5,720	119.3	81.7	115.0
Skylights or Atriums	77	355	875	758	4,618	7,170	101.2	76.9	122.0
Daylighting Sensors	Q	77	272	216	789	1,864	Q	97.4	145.8
Specular Reflectors	241	923	1,665	2,184	10,058	13,875	110.2	91.8	120.0
Electronic Ballasts	762	1,750	2,234	7,346	20,431	19,105	103.7	85.6	117.0
Energy Management and Control System (EMCS) For Lighting	Q	131	393	Q	1,172	3,537	Q	112.1	111.1
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)^a									
Heating	740	1,471	1,529	8,161	19,476	15,084	90.7	75.5	101.4
Cooling	742	1,500	1,602	7,797	19,738	15,670	95.1	76.0	102.3
Lighting	995	1,668	1,155	10,689	23,175	13,123	93.1	72.0	88.0
Office Equipment	378	672	416	4,483	10,317	4,597	84.3	65.1	90.4

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>.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

^a The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: • Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. • HVAC = Heating, Ventilation, and Air Conditioning. • Due to rounding, data may not sum to totals. Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table C12. Consumption and Gross Energy Intensity by Year Constructed for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0
Building Floorspace (Square Feet)									
1,001 to 5,000	191	290	190	2,146	2,805	1,838	89.1	103.5	103.5
5,001 to 10,000	131	231	154	1,972	2,917	1,696	66.2	79.2	91.0
10,001 to 25,000	235	351	191	3,213	4,976	3,346	73.1	70.5	57.0
25,001 to 50,000	172	328	173	2,449	4,128	2,091	70.4	79.4	82.5
50,001 to 100,000	150	380	228	2,060	4,018	2,979	73.0	94.6	76.7
100,001 to 200,000	214	438	281	2,124	3,947	2,993	100.7	111.1	94.0
200,001 to 500,000	219	354	152	2,155	3,427	1,593	101.7	103.2	95.3
Over 500,000	176	421	Q	1,566	2,986	1,357	112.1	141.2	Q
Principal Building Activity									
Education	248	385	187	3,191	4,359	2,324	77.6	88.4	80.6
Food Sales	Q	116	Q	277	587	391	Q	197.0	Q
Food Service	89	152	187	613	524	517	144.4	290.1	361.2
Health Care	130	361	103	730	1,671	762	177.7	215.8	135.7
Inpatient	Q	311	Q	456	1,218	231	Q	255.3	Q
Outpatient	Q	50	45	273	453	531	Q	109.6	84.4
Lodging	109	286	114	1,236	2,564	1,296	Q	111.7	88.1
Retail (Other Than Mall).....	76	115	128	1,026	1,804	1,487	73.9	63.5	86.4
Office	267	641	226	2,852	6,792	2,563	93.6	94.4	88.0
Public Assembly	90	156	124	1,455	1,450	1,035	62.0	107.6	119.7
Public Order and Safety	Q	39	Q	Q	385	453	Q	101.3	Q
Religious Worship	71	53	39	1,522	1,328	904	46.6	39.9	43.3
Service	66	168	78	1,057	1,954	1,040	62.8	85.9	74.8
Warehouse and Storage	166	156	134	2,029	4,014	4,034	81.6	38.8	33.3
Other	Q	142	Q	372	693	673	Q	Q	Q
Vacant	Q	Q	Q	1,073	1,080	415	Q	Q	Q
Census Region and Division									
Northeast	525	548	198	6,004	4,834	2,067	87.4	113.4	95.9
New England	101	135	Q	1,404	1,058	502	72.3	127.6	Q
Middle Atlantic	423	413	141	4,600	3,776	1,565	92.0	109.4	90.2
Midwest	550	748	393	5,679	7,415	3,986	96.8	100.8	98.5
East North Central	426	549	279	4,056	5,064	2,475	105.1	108.3	112.6
West North Central	123	199	114	1,623	2,351	1,511	76.0	84.6	75.4
South	257	969	721	3,659	11,032	8,798	70.4	87.9	82.0
South Atlantic	153	471	440	2,087	5,247	4,924	73.5	89.7	89.3
East South Central	41	182	86	583	1,703	1,108	69.9	107.1	77.7
West South Central	63	316	196	989	4,082	2,766	64.1	77.5	70.7
West	156	529	226	2,343	5,924	3,042	66.6	89.3	74.4
Mountain	51	255	76	524	2,217	934	97.0	114.9	81.2
Pacific	105	274	150	1,819	3,708	2,108	57.9	73.9	71.4
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	279	488	224	3,390	4,652	2,580	82.2	104.8	86.6
5,500-7,000 HDD	583	827	350	6,069	7,626	3,640	96.1	108.5	96.2
4,000-5,499 HDD	380	517	237	4,078	4,911	2,515	93.3	105.2	94.1
Fewer than 4,000 HDD	183	608	422	3,095	7,506	5,137	59.0	81.0	82.1
2,000 CDD or More and --									
Fewer than 4,000 HDD	63	354	307	1,052	4,511	4,021	60.0	78.4	76.3

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Table C12. Consumption and Gross Energy Intensity by Year Constructed for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0
Number of Floors									
One	377	863	698	4,849	11,814	9,318	77.7	73.0	74.9
Two	345	628	338	4,548	7,501	4,221	75.8	83.7	80.1
Three	250	241	128	3,470	2,465	1,565	72.1	97.7	82.0
Four to Nine	340	698	299	3,403	4,507	2,175	99.8	154.8	137.5
Ten or More	177	365	Q	1,415	2,919	613	124.9	124.9	Q
Elevators and Escalators (more than one may apply)									
Any Elevators	639	1,491	696	6,588	11,645	6,384	97.0	128.0	109.0
Number of Elevators									
One	171	341	220	2,392	3,249	2,580	71.6	104.9	85.1
Two to Five	260	614	284	2,821	4,792	2,516	92.0	128.1	112.8
Six or More	208	536	193	1,375	3,605	1,288	151.1	148.8	149.5
Any Escalators	Q	193	Q	Q	1,598	Q	Q	120.7	Q
Number of Workers (main shift)									
Fewer than 5	362	295	160	5,370	6,047	4,075	67.5	48.8	39.3
5 to 9	127	220	121	1,766	2,693	1,706	72.1	81.6	71.1
10 to 19	166	235	193	2,429	3,045	2,329	68.5	77.2	82.8
20 to 49	256	480	314	3,158	4,568	3,262	81.2	105.0	96.2
50 to 99	161	347	220	1,781	3,725	2,428	90.2	93.2	90.6
100 to 249	147	459	232	1,284	3,779	1,808	114.2	121.6	128.1
250 or More	268	758	299	1,896	5,347	2,285	141.4	141.7	130.8
Weekly Operating Hours									
Fewer than 40	88	94	46	2,541	2,798	1,525	34.5	33.7	30.0
40 to 48	253	363	157	3,627	5,079	2,917	69.8	71.5	53.8
49 to 60	385	536	259	4,564	7,382	3,777	84.4	72.5	68.5
61 to 84	258	414	252	2,728	4,615	2,991	94.6	89.6	84.3
85 to 167	152	379	359	1,353	2,859	2,880	112.5	132.5	124.5
Open Continuously	352	1,008	467	2,872	6,473	3,803	122.5	155.8	122.7
Ownership and Occupancy									
Nongovernment Owned	1,009	2,054	1,140	12,993	22,391	14,037	77.6	91.7	81.2
Owner Occupied	579	962	519	7,114	10,422	6,055	81.4	92.3	85.7
Nonowner Occupied	423	1,076	616	5,206	11,103	7,604	81.2	96.9	81.0
Unoccupied	Q	Q	Q	673	865	Q	Q	Q	Q
Government Owned	479	740	398	4,692	6,814	3,856	102.1	108.5	103.3
Federal	142	109	Q	843	737	Q	168.6	147.6	Q
State	86	304	123	838	2,122	848	103.1	143.1	145.4
Local	251	327	223	3,011	3,955	2,632	83.3	82.7	84.6
Vacancy Status									
Completely Vacant	Q	Q	Q	905	879	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant	319	538	229	3,680	5,693	3,009	86.7	94.4	76.2
Not At All Vacant	1,146	2,231	1,303	12,933	22,432	14,469	88.6	99.5	90.1
Number of Establishments									
One	1,095	1,929	1,143	12,247	19,473	13,424	89.4	99.0	85.2
2 to 5	240	508	245	2,930	5,170	2,860	81.9	98.2	85.6
6 to 10	39	102	75	467	989	501	82.6	103.1	149.3
11 to 20	Q	93	Q	529	974	449	Q	95.3	Q
More than 20	Q	145	Q	607	1,720	Q	Q	84.5	Q
Currently Unoccupied	Q	Q	Q	905	879	Q	Q	Q	Q

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Table C12. Consumption and Gross Energy Intensity by Year Constructed for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0
Predominant Exterior Wall Material									
Brick, Stone or Stucco	1,111	1,372	703	12,922	13,061	6,834	86.0	105.0	102.8
Concrete (Block or Poured)	244	500	230	2,696	5,446	2,690	90.4	91.8	85.5
Concrete Panels	Q	419	233	166	3,595	2,798	Q	116.6	83.4
Siding or Shingles	72	105	100	1,186	1,526	1,407	60.4	69.0	70.8
Metal Panels	Q	236	192	524	4,016	3,372	Q	58.9	56.8
Window Glass	Q	60	Q	Q	624	Q	Q	95.5	Q
Other	Q	Q	Q	Q	730	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant Roof Material									
Built-Up	578	1,119	386	6,646	10,567	3,957	86.9	105.9	97.6
Shingles (Not Wood)	265	351	207	3,347	4,170	2,678	79.1	84.2	77.1
Metal Surfacing	51	254	325	1,072	4,964	5,908	47.8	51.2	54.9
Synthetic or Rubber	308	822	519	3,530	6,959	4,240	87.3	118.1	122.3
Slate or Tile	91	58	58	1,185	705	572	76.8	82.3	101.9
Wooden Materials	Q	40	Q	314	464	Q	Q	86.5	Q
Concrete	Q	Q	Q	Q	666	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation									
Since 1980	830	937	N	9,146	8,698	N	90.7	107.7	N
Addition or Annex	290	443	N	3,069	3,482	N	94.3	127.3	N
Reduction In Floorspace	Q	Q	N	501	511	N	Q	Q	N
Cosmetic Improvements	606	712	N	6,751	6,368	N	89.7	111.8	N
Wall or Roof Replacement	343	434	N	4,168	3,903	N	82.3	111.2	N
Interior Wall									
Re-Configuration	378	534	N	4,191	4,327	N	90.1	123.3	N
HVAC Equipment Upgrade	510	646	N	5,436	5,332	N	93.9	121.2	N
Lighting Upgrade	489	596	N	5,483	4,792	N	89.2	124.4	N
Window Replacement	344	269	N	4,090	2,264	N	84.2	118.6	N
Plumbing System Upgrade	368	380	N	4,013	3,130	N	91.8	121.3	N
Insulation Upgrade	173	207	N	2,212	1,803	N	78.4	115.0	N
Other Renovation	Q	Q	N	451	Q	N	Q	Q	N
No Renovations Since 1980	658	823	N	8,539	10,175	N	77.1	80.9	N
Building Newer than 1980	N	1,034	1,539	N	10,332	17,893	N	100.1	86.0
Energy Sources (more than one may apply)									
Electricity	1,488	2,794	1,538	17,163	28,766	17,378	86.7	97.1	88.5
Natural Gas	1,082	2,175	1,235	12,097	19,763	11,608	89.4	110.1	106.4
Fuel Oil	481	908	370	4,995	6,951	3,211	96.4	130.7	115.3
District Heat	354	490	Q	2,206	2,330	908	160.6	210.4	Q
District Chilled Water	Q	286	Q	510	1,433	910	Q	199.4	Q
Propane	209	233	143	2,025	2,890	2,161	103.2	80.5	66.0
Other	21	84	Q	331	806	263	64.1	104.7	Q

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Table C12. Consumption and Gross Energy Intensity by Year Constructed for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0
Space-Heating Energy Sources (more than one may apply)									
Electricity	427	1,222	724	5,769	13,818	9,013	74.1	88.4	80.3
Natural Gas	881	1,793	1,007	10,050	17,081	9,828	87.7	105.0	102.5
Fuel Oil	293	225	73	3,466	1,895	627	84.4	118.8	116.6
District Heat	349	475	Q	2,147	2,171	880	162.4	218.7	Q
Propane	55	60	45	972	1,238	993	56.3	48.2	45.8
Other	Q	30	Q	203	465	Q	Q	64.5	Q
Primary Space-Heating Energy Source									
Electricity	112	587	390	1,886	8,416	5,694	59.2	69.7	68.6
Natural Gas	830	1,581	869	9,431	15,149	8,390	88.1	104.3	103.6
Fuel Oil	179	92	Q	2,583	958	Q	69.4	96.4	Q
District Heat	326	458	Q	2,001	2,044	862	163.0	224.1	Q
Propane	13	22	37	450	777	729	28.4	28.0	50.7
Other	Q	Q	Q	Q	198	Q	Q	Q	Q
Cooling Energy Sources (more than one may apply)									
Electricity	1,128	2,530	1,363	13,263	25,843	15,214	85.0	97.9	89.6
Natural Gas	Q	Q	Q	Q	419	Q	Q	Q	Q
District Chilled Water	Q	286	Q	510	1,433	910	Q	199.4	Q
Water-Heating Energy Sources (more than one may apply)									
Electricity	431	1,105	609	6,039	13,305	8,147	71.4	83.1	74.7
Natural Gas	765	1,507	934	8,044	13,116	7,661	95.0	114.9	122.0
Fuel Oil	92	92	Q	1,047	668	Q	Q	138.5	Q
District Heat	167	331	Q	1,127	1,622	340	148.1	203.9	Q
Propane	Q	29	Q	346	651	426	Q	44.5	Q
Cooking Energy Sources (more than one may apply)									
Electricity	333	834	412	3,320	6,449	3,392	100.4	129.3	121.5
Natural Gas	524	961	588	4,847	6,307	4,284	108.1	152.4	137.4
Propane	Q	50	Q	450	678	332	Q	74.0	Q
Energy End Uses (more than one may apply)									
Buildings with Space Heating	1,464	2,747	1,495	16,437	27,541	16,049	89.0	99.7	93.1
Buildings with Cooling	1,229	2,719	1,517	13,855	26,933	16,152	88.7	100.9	93.9
Buildings with Water Heating	1,291	2,708	1,500	14,569	26,409	15,499	88.6	102.5	96.8
Buildings with Cooking	694	1,289	729	6,760	9,776	5,701	102.7	131.9	127.9
Buildings with Manufacturing	67	115	72	928	1,480	730	72.7	77.9	98.0
Buildings with Electricity Generation	315	975	403	2,294	6,955	3,572	137.3	140.2	112.9
Percent of Floorspace Heated									
Not Heated	24	47	44	1,248	1,664	1,844	19.6	28.1	23.7
1 to 50	75	104	120	1,960	2,608	2,281	38.2	39.9	52.4
51 to 99	222	332	192	2,611	3,476	2,020	85.0	95.5	95.2
100	1,167	2,311	1,183	11,866	21,458	11,748	98.3	107.7	100.7

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Table C12. Consumption and Gross Energy Intensity by Year Constructed for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0
Percent of Floorspace Cooled									
Not Cooled	259	75	22	3,830	2,272	1,741	67.6	33.1	12.5
1 to 50	376	432	218	5,393	7,014	4,191	69.8	61.5	52.0
51 to 99	348	693	372	3,663	6,171	3,377	94.9	112.3	110.2
100	505	1,594	927	4,799	13,748	8,584	105.2	115.9	108.0
Percent Lit When Open									
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	227	191	122	3,977	3,766	2,461	57.1	50.6	49.7
51 to 99	433	888	415	4,889	9,002	4,398	88.5	98.7	94.3
100	804	1,692	993	7,611	15,221	9,957	105.6	111.2	99.8
Building Never Open/ Electricity Not Used	Q	Q	Q	1,155	1,172	883	Q	Q	Q
Percent Lit When Closed									
Zero	400	431	302	5,199	7,017	5,169	76.9	61.4	58.4
1 to 50	716	1,253	657	8,854	14,432	7,662	80.9	86.8	85.7
51 to 100	Q	101	113	238	961	894	Q	105.4	126.7
Building Never Closed/ Electricity Not Used	352	1,008	467	3,394	6,795	4,168	103.7	148.4	112.0
Heating Equipment (more than one may apply)									
Heat Pumps	136	422	247	1,617	4,223	2,973	83.9	99.9	83.1
Packaged Heat Pumps	78	307	138	796	3,059	1,587	98.5	100.3	86.7
Split-System Heat Pumps	23	104	71	364	1,214	1,003	63.6	85.7	70.8
Individual Room Heat Pumps	62	113	80	753	1,050	888	82.3	107.6	89.8
Furnaces	423	655	415	5,910	8,376	5,329	71.5	78.2	77.9
Individual Space Heaters	246	506	272	3,650	5,661	3,233	67.3	89.3	84.2
District Heat	349	467	Q	2,147	2,139	880	162.4	218.1	Q
Boilers	734	1,100	410	7,751	9,099	3,573	94.7	120.9	114.8
Packaged Heating Units	243	869	617	2,791	9,252	5,978	87.2	93.9	103.1
Other	Q	128	74	386	1,662	1,215	Q	77.2	61.0
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	301	389	234	3,470	4,779	2,786	86.6	81.4	84.1
Heat Pumps	150	418	269	1,699	4,241	3,102	88.0	98.7	86.8
Packaged Heat Pumps	90	301	138	860	2,997	1,569	104.4	100.3	88.1
Split-System Heat Pumps	29	103	73	419	1,205	981	68.5	85.2	74.3
Individual Room Heat Pumps	59	120	99	716	1,183	1,041	82.4	101.3	94.9
Individual Air Conditioners	448	456	177	5,406	5,295	1,858	82.8	86.0	95.1
District Chilled Water	Q	286	Q	510	1,433	910	Q	199.4	Q
Central Chillers	299	922	311	2,346	6,900	2,390	127.3	133.6	130.1
Packaged Air Conditioning Units	633	1,376	854	7,068	13,851	9,050	89.5	99.3	94.3
Swamp Coolers	Q	115	Q	221	1,072	269	Q	107.5	Q
Other	Q	Q	Q	416	528	287	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	429	938	N	6,052	10,351	N	70.9	90.7	N
Cooling	633	1,316	N	7,686	13,309	N	82.3	98.9	N

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Table C12. Consumption and Gross Energy Intensity by Year Constructed for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0
Water Heating Equipment									
Centralized System	848	1,686	899	8,889	16,543	9,240	95.4	101.9	97.3
Distributed System	195	374	266	3,221	4,871	3,448	60.6	76.9	77.1
Combination of Centralized and Distributed System	248	648	336	2,459	4,996	2,812	100.7	129.6	119.4
Lighting Equipment Types (more than one may apply)									
Incandescent	965	1,997	955	11,094	18,083	9,351	87.0	110.4	102.1
Standard Fluorescent	1,415	2,735	1,493	15,996	27,530	16,161	88.5	99.4	92.4
Compact Fluorescent	687	1,688	833	6,587	13,504	7,480	104.2	125.0	111.4
High Intensity Discharge	498	975	668	4,992	9,231	6,420	99.8	105.7	104.0
Halogen	427	994	561	4,079	8,102	5,522	104.6	122.6	101.7
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Refrigeration Equipment (more than one may apply)^a									
Any Refrigeration.....	1,230	2,527	1,456	13,973	24,165	14,836	88.0	104.6	98.1
Commercial Refrigeration	772	1,648	916	7,421	12,240	7,107	104.0	134.6	128.9
Walk-In Units	566	1,421	780	5,242	9,625	5,387	107.9	147.6	144.7
Cases or Cabinets	614	1,379	710	5,492	9,628	5,304	111.8	143.2	133.8
Residential-Type Units	912	1,666	888	11,110	17,563	10,211	82.1	94.9	87.0
Vending Machines	775	1,914	1,032	7,833	17,126	10,375	98.9	111.8	99.5
No Refrigeration	258	266	83	3,712	5,040	3,057	69.4	52.8	27.2
Office Equipment (more than one may apply)									
Computers	1,256	2,653	1,467	14,244	25,894	15,490	88.2	102.5	94.7
With Flat Screen Monitors	630	1,568	768	6,001	13,348	7,068	104.9	117.5	108.7
Dedicated Servers	771	1,959	1,031	8,136	17,936	10,265	94.7	109.2	100.4
Laser Printers	766	1,460	783	9,240	15,256	8,516	82.9	95.7	91.9
Inkjet Printers	675	1,675	953	6,987	15,573	9,650	96.5	107.5	98.8
FAX Machines	1,169	2,519	1,403	13,208	24,496	14,669	88.5	102.8	95.7
Photocopiers	1,037	2,248	1,180	11,473	21,832	12,952	90.4	103.0	91.1
Number of Computers									
None	232	141	72	3,441	3,311	2,403	67.3	42.5	30.0
1 to 4	306	392	318	4,022	5,011	3,362	76.0	78.3	94.4
5 to 9	139	237	170	2,124	2,820	2,236	65.7	83.9	75.9
10 to 19	103	253	159	1,268	3,254	2,088	81.1	77.8	76.2
20 to 49	156	332	220	1,808	3,178	2,428	86.0	104.4	90.4
50 to 99	135	276	102	1,607	2,523	1,246	83.8	109.4	81.8
100 to 249	149	362	202	1,507	3,277	1,907	99.2	110.5	106.0
250 or More	269	801	296	1,909	5,832	2,222	140.7	137.4	133.4
Number of Dedicated Servers									
None	717	835	508	9,549	11,269	7,628	75.1	74.1	66.6
1 to 4	470	1,138	625	5,444	11,560	7,112	86.4	98.5	87.9
5 to 9	98	179	129	1,078	1,607	1,180	90.8	111.2	109.2
10 to 19	104	221	107	795	1,468	764	130.8	150.8	139.6
20 to 49	Q	221	Q	239	1,921	423	Q	114.9	Q
50 or More	Q	200	118	581	1,380	787	Q	144.7	149.8

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Table C12. Consumption and Gross Energy Intensity by Year Constructed for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0
Number of Photocopiers									
None	451	546	358	6,212	7,374	4,941	72.6	74.0	72.5
One	325	451	354	4,324	6,116	5,035	75.1	73.7	70.3
2 to 4	283	696	355	3,669	7,155	4,258	77.3	97.2	83.4
5 to 9	114	297	201	1,256	2,754	1,505	90.5	107.9	133.6
10 or More	315	804	270	2,224	5,806	2,154	141.7	138.5	125.3
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	693	1,289	729	6,748	9,774	5,701	102.6	131.9	127.9
Activities with Large Amounts of Hot Water	533	1,271	661	4,912	9,140	5,430	108.6	139.1	121.8
Separate Computer Area	630	1,561	703	6,222	13,495	7,156	101.3	115.7	98.3
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	407	1,297	676	3,465	9,798	6,335	117.4	132.4	106.7
Economizer Cycle	424	1,461	703	3,618	11,196	6,294	117.2	130.5	111.7
HVAC Maintenance	1,242	2,501	1,427	13,084	23,507	14,572	94.9	106.4	97.9
Energy Management and Control System (EMCS)	326	985	471	2,975	8,078	4,577	109.6	122.0	102.8
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	850	1,876	1,203	9,646	16,720	12,544	88.1	112.2	95.9
Tinted Window Glass	567	1,669	862	5,566	15,091	9,231	101.9	110.6	93.4
Reflective Window Glass	161	479	286	1,579	4,009	2,956	102.0	119.6	96.8
External Overhangs or Awnings	344	902	491	4,147	8,148	4,947	82.9	110.7	99.1
Skylights or Atriums	245	686	376	2,666	6,130	3,750	91.9	111.8	100.3
Daylighting Sensors	49	197	130	448	1,407	1,014	110.1	140.3	128.4
Specular Reflectors	627	1,410	792	6,340	12,258	7,519	98.9	115.0	105.3
Electronic Ballasts	1,143	2,313	1,290	11,938	21,721	13,223	95.7	106.5	97.6
Energy Management and Control System (EMCS) For Lighting	59	306	174	565	2,606	1,610	103.8	117.5	107.9
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)^a									
Heating	937	1,836	967	11,574	20,077	11,070	81.0	91.4	87.4
Cooling	911	1,874	1,059	11,103	20,157	11,945	82.1	93.0	88.6
Lighting	1,096	1,701	1,021	13,346	20,951	12,690	82.2	81.2	80.4
Office Equipment	470	598	398	6,195	8,140	5,062	75.8	73.4	78.6

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Table C12. Consumption and Gross Energy Intensity by Year Constructed for Sum of Major Fuels for Non-Mall Buildings, 2003

	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/square foot)		
	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	1,488	2,794	1,539	17,685	29,205	17,893	84.1	95.7	86.0

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>.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, malls represented 6.6 percent of total consumption.

^a The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

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

N=No responding cases in sample.

Notes: • Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. • HVAC = Heating, Ventilation, and Air Conditioning. • Due to rounding, data may not sum to totals.

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