Table C30. Natural Gas Consumption and Conditional Energy Intensity by Climate Zone^a for Non-Mall Buildings, 2003

Non Man Banangs, 20		Coi	Natura nsump	tion		Bu	ildings l	Floorspa Jsing Na	atural G	Natural Gas Energy Intensity (cubic feet/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*	418	659	327	347	119	7,645	12,850	8,113	10,509	4,350	54.7	51.3	40.3	33.0	27.3
Building Floorspace															
(Square Feet)															
1,001 to 5,000	56	81	35	55	16	660	979	421	789	234	85.0	82.9	82.5	69.8	66.6
5,001 to 10,000	47	53	27	59	16	644	944	526	1,212	367	72.5	56.5	51.2	49.0	43.9
10,001 to 25,000	88	103	50	47	13	1,679	2,134	958	1,781	501	52.4	48.0	51.7	26.4	25.9
25,001 to 50,000	59	87	52	34	18	1,251	1,839	1,031	1,441	463	47.2	47.2	50.4	23.7	38.6
50,001 to 100,000	55	88	42	41	11	1,043	2,129	1,300	1,569	642	52.4	41.5	32.3	26.0	16.5
100,001 to 200,000	35	114	31	Q	9	970	2,090	1,320	1,550	714	36.2	54.5	23.4	34.0	12.4
200,001 to 500,000	54	61	38	31	15	1,001	1,471	1,380	1,161	666	53.6	41.7	27.3	26.8	22.5
Over 500,000	Q	71	53	27	Q	Q	1,263	1,176	1,005	Q	Q	56.5	44.9	26.8	Q
Principal Building Activity	25	446	22	40	_	4 00=	0.001	222	4 700	000	50. 0	40 :	60 :	00.0	40.4
Education	65	113	26	48	9	1,227	2,281	968	1,700	869	53.0	49.4	26.4	28.2	10.1
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	27	49	Q	64	31	174	368	Q	393	277	154.3		Q		110.9
Health Care	38	69	36	64	29	383	665	454	720	323	98.4	103.5	78.3	89.5	89.4
Inpatient	27	56	30	59	26	237	414	302	589	264	114.1	136.3	99.9	99.4	98.8
Outpatient	Q	12	Q	Q	Q	Q	251	Q	Q	Q	Q	49.4	Q	Q	Q
Lodging	34	86	36	34	18	609	1,183	958	967	538	55.5	72.8	Q	35.3	32.8
Retail (Other Than Mall)	27 60	27 106	16 60	16 22	Q 14	593 1,252	595 2,575	451 1,977	931 1,539	Q 865	46.1 48.0	45.8 41.0	36.1 30.1	17.0	Q 16.1
Office						-		,	-					14.4	
Public Assembly	32	30	Q	25	Q	639	537	Q	700	Q	49.7	55.0	Q	35.4	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q 277	Q	Q	Q 774	Q	Q 40.0	Q	Q	Q	Q
Religious Worship	14 49	38 37	14 18	13 23	Q Q	277 697	973 717	412 422	774 511	Q	49.2 70.9	38.9 52.1	32.8 Q	16.5 44.8	Q Q
Service Warehouse and Storage	33	44	33	23 16	Q	963	1,672	1,071	1,463	Q Q	34.5	26.4	30.7	11.2	Q
Other	Q	Q	Q	Q	Q	903 Q	1,072 Q	1,071 Q	1,403 Q	Q	34.3 Q	20.4 Q	30.7 Q	11. <u>2</u>	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed															
Before 1920	55	46	25	Q	Q	832	1,042	599	Q	Q	66.4	43.7	41.9	Q	Q
1920 to 1945	49	70	77	17	Q	762	1,296	1,563	821	Q	64.8	54.1	49.0	21.3	Q
1946 to 1959	37	97	29	Q	Q	642	1,831	1,000	945	Q	57.5	52.8	29.0	44.8	Q
1960 to 1969	61	94	36	39	19	1,005	1,759	1,061	1,246	563	60.2	53.2	33.7	31.2	33.3
1970 to 1979	95	125	43	59	19	1,732	2,291	1,199	1,697	739	54.8	54.4	35.6	34.9	26.3
1980 to 1989	42	109	43	70	19	688	1,831	946	2,111	893	60.7	59.3	45.7	33.0	21.5
1990 to 1999	61	82	45	86	31	1,460	1,887	1,053	2,704	1,073	41.4	43.5	43.1	31.8	28.6
2000 to 2003	19	38	Q	24	13	524	913	693	785	517	36.5	41.1	41.6	30.6	25.6
Census Region and Division															
Northeast	Q	188	165	N	N	Q	3,692	4,328	N	N	53.3	51.0	38.1	N	N
New England	N	73	N	N	N	N	1,465	N	N	N	N	49.5	N	N	N
Middle Atlantic	Q	116	165	N	N	Q	2,227	4,328	N	N	53.3	52.0	38.1	N	N
Midwest	235	405	44	N	N	4382.0	7,947	834	N	N	53.6	51.0	52.3	N	N
East North Central	151	361	N	N	N	2660.0	6,909	N	N	N	56.7	52.3	N	N	N
West North Central	84	43	44	N	N	1722.0	Q	834	N	N	48.8	Q	52.3	N	N
South	N	N	104	249	107	N	N	2,508	6,748	4,054	N	N	41.5	36.8	26.5
South Atlantic	N	N	58	131	Q	N	N	1,705	3,643	Q	N	N	33.9	35.9	22.1
East South Central	N	N	Q	Q	Q	N	N	Q	Q	Q	N	N	Q	34.9	43.7
West South Central	N	N	Q	72	71	N	N	Q	1,777	2,748	N	N	Q	40.3	26.0
West	122	66	14	99	11	2102.0	1,211	443	3,761	296	57.9	54.1	30.8	26.2	37.9
Mountain	104	53	N	N	Q	1722.0	829	N	N	Q	60.4	63.5	N	N	Q
Pacific	Q	13	14	99	Q	Q	383	443	3,761	Q	46.8	33.7	30.8	26.2	117.3

Table C30. Natural Gas Consumption and Conditional Energy Intensity by Climate Zone^a for Non-Mall Buildings, 2003

											1				
		Co	Natura nsump	tion		Bu	ildings l	loorspa Jsing Na square	atural G	Natural Gas Energy Intensity (cubic feet/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*	418	659	327	347	119	7,645	12,850	8,113	10,509	4,350	54.7	51.3	40.3	33.0	27.3
Number of Floors															
One	140	213	81	161	49	2,572		1,862	-	1,715	54.3	54.7	43.4	32.9	28.7
Two Three	131 60	164 96	89 35	75 Q	18 Q	2,461 1,140	3,745 2,239	1,964 996	2,436 1,060	835 Q	53.2 52.5	43.8 42.9	45.1 34.8	30.7 34.7	21.6 Q
Four to Nine	74	133	74			1,140		2,103	1,392		58.1	61.1	35.0	43.4	36.3
Ten or More	Q	53	49	14	Q	Q		1,188	727	Q	Q	66.6	41.3	19.3	Q
Number of Workers (main shift)															
Fewer than 5	65	108	35	49	7	1,279	2,639	807	1,797	501	50.9	41.0	43.0	27.1	14.7
5 to 9	41	63	30	46	12	796	1,164	616	1,166	341	51.5	54.6	48.2	39.4	35.0
10 to 19	62	81	31	37	23	997	1,575	1,055	1,196	494	62.1	51.4	29.8	31.3	46.6
20 to 49	100	112	80	71	19	1,748	2,227	1,742	1,894		57.3	50.3	46.1	37.6	31.9
50 to 99	60 44	93 83	33 37	38 54	10 10	1,338 872		1,036 1,071	1,363 1,418	580 357	45.0 50.4	50.6 58.8	31.9 34.5	27.7 38.3	16.8 26.6
250 or More	46	118	80	52		614	1,998	1,786		1,475	74.7	59.1	45.0	30.8	25.7
Weekly Operating Hours															
Fewer than 40	22	50	Q	Q	Q	477	1,536	Q	746	Q	46.8	32.6	Q	30.2	Q
40 to 48	53	105	35	38	Q	1,049	1,988	1,296	1,901	680	50.7	52.7	26.9	19.8	16.6
49 to 60	107	116	70	57	12	2,297	3,050	1,525	2,372	948	46.8	38.1	45.8	24.2	12.9
61 to 84	71	108	53		14	1,182		1,450	2,020	579	59.8	48.5	36.6	28.9	24.6
85 to 167	68	74	43	50	13	1,127	1,348	1,060	1,107	582	60.5	55.0	40.6	45.5	22.9
Open Continuously	97	205	119	121	65	1,514	2,691	2,548	2,364	1,294	63.9	76.2	46.8	51.1	50.1
Ownership and Occupancy	005	405	070	074	0.5	5.074	0.570	0.507	0.004	0.404		50.0	40.7	00.4	00.4
Nongovernment Owned Owner Occupied		485 248	279 147	274 118	95 31	5,871 2,758	9,578 4,941	6,537 3,647	8,201 3,859		55.3 51.6	50.6 50.1	42.7 40.3	33.4 30.5	30.4 23.4
Nonowner Occupied	180	226	131	155	64	3,003	4,009	2,859	4,260		60.0	56.3	45.7	36.4	36.3
Unoccupied	Q	Q	Q			0,000 Q		2,000 Q	1, <u>2</u> 30 Q	,,, 00 Q	Q	Q	Q	Q	Q
Government Owned	94	174	48	74	23	1,774	3,273	1,576	2,308	1,219	52.8	53.1	30.2	31.8	19.2
Federal	Q	Q	Q		Q	Q		Q	Q	Q	Q	Q	15.8	Q	Q
State	13	28	13		Q	375	447	414	878		34.9	62.8	31.7	38.5	Q
Local	78	125	30	36	15	1,331	2,281	872	1,289	856	58.2	54.7	34.3	27.6	17.2
Vacancy Status															
Completely Vacant	Q	Q	Q	Q	Q	Q		Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant Partially Vacant	Q 88	Q 108	Q 59			Q 1,640		Q 1.670	Q 1 5 1 5	Q 1,110	Q 53.4	Q 43.0	38.2 35.2		5.2 18.9
Not At All Vacant	323	539	262			5,798		1,679 6,297		3,192	55.7	55.6	41.6		
Number of Establishments															
One	300	501	247	289	80	5,184	9,094	5,555	7 980	2,706	58.0	55.1	44.4	36.2	29.7
2 to 5	96	104	36		24	1,838		1,402	1,528		52.3	48.2		24.2	
6 to 10	14	20	Q		Q	360	-	Q	Q	Q	39.0	50.8	Q	Q	Q
11 to 20	Q	Q	Q			Q		Q	Q		Q	Q	Q		Q
More than 20	Q	Q	Q			Q		Q	Q		Q	Q			
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

Table C30. Natural Gas Consumption and Conditional Energy Intensity by Climate Zone^a for Non-Mall Buildings, 2003

Ttorr man Bananigs, 20										1	1				
		Co	Natura nsump	tion		Bu	ildings l	Floorspa Jsing Na n square	atural G	Natural Gas Energy Intensity (cubic feet/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*	418	659	327	347	119	7,645	12,850	8,113	10,509	4,350	54.7	51.3	40.3	33.0	27.3
Predominant Exterior Wall Material															
Brick, Stone or Stucco	211	419	199	197	68	3,414	7,509	4,772	5,721	2,134	61.7	55.7	41.7	34.4	31.9
Concrete (Block or Poured)	99	92	63	67	19	1,712	1,918	1,231	1,695	767	57.7	48.1	51.3	39.4	24.7
Concrete Panels	43	70	28	21	13	788	1,144	969	938	840	54.7	61.3	28.9	22.0	15.0
Siding or Shingles	17	33	Q	Q	Q	501	833	Q	Q	Q	34.6	39.1	Q	Q	Q
Metal Panels	41	24	19	35	Q	1,017	774	592	1,424		40.4	31.1	32.0	24.4	Q
Window Glass	Q	Q	Q	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	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	28.3	Q
Predominant Roof Material	450	040	400	440	40	0.500	4.004	0.004	0.000	4 554	00.0	50.7	47.0	00.0	07.7
Built-Up	156 67	240	138	143 61	43	2,588	4,234	2,924	3,909	-	60.3	56.7	47.3	36.6 38.3	27.7
Shingles (Not Wood) Metal Surfacing	61	111 44	51 21	50	11 Q	1,115 1,500	2,379 1,111	983 656	1,594 1,913	448 601	59.7 40.9	46.8 39.4	51.7 32.3	25.9	24.5 20.7
Synthetic or Rubber	112	221	90	61	42	1,998	4,257	2,281	2,049		56.1	51.9	39.4	29.6	33.6
Slate or Tile	Q	20	Q	24	Q	1,990 Q	370	2,201 Q	627	1,234 Q	30.1 Q	54.9	33. 4 Q	37.6	33.0 Q
Wooden Materials	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q Q	Q
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q		Q
Other	Q	Q	Q	Q	N	Q	Q	Q	Q	N	Q	Q			N
No One Major Type	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	400				•	. =					•				
Since 1980	168	254	116	94	33	2,731	4,313	2,969	2,478	780	61.4	58.8	39.0	37.7	41.8
Addition or Annex	88	102	40	47	18	1,351	1,594	987	756	348	65.2	64.0	Q	62.2	52.7
Reduction In Floorspace Cosmetic Improvements	Q 140	Q 171	Q 84	Q 61	Q 25	Q 2,172	Q 2,912	Q 2,428	Q 1,918	Q 642	Q 64.7	Q 58.8	Q 34.7	Q 31.6	Q 39.6
Wall or Roof Replacement	81	96	47	29	17	1,327	1,835	1,727	1,046	393	61.2	52.3	27.0	27.6	43.5
Interior Wall	01	50	77	20	"	1,021	1,000	1,121	1,040	555	01.2	02.0	27.0	27.0	40.0
Re-Configuration	98	122	57	38	17	1,605	1,958	1,881	1,162	413	61.0	62.2	30.2		40.1
HVAC Equipment Upgrade	123	154	88	68	20	1,956	2,537	1,996	1,488	506	62.7	60.7	44.0		39.6
Lighting Upgrade	121	138	66	45	Q	1,971	2,467	1,890	1,391	385	61.3	55.9	35.1	32.3	40.1
Window Replacement	70	102	41	19	Q	1,118	1,732	1,523	495		62.5	58.9	26.7	38.4	Q
Plumbing System Upgrade	83	96	52	35	Q	1,272	1,545	1,588	1,051	Q	65.5	62.1	32.5	33.5	Q
Insulation Upgrade Other Renovation	38 Q	38	28	20	Q	696	836	773	484		55.1	45.2 Q		41.0	Q
No Renovations Since 1980	129	Q 177	Q 94	Q 74	N 23	Q 2,243	Q 3,905	Q 2,453	Q 2.432	N 1,087	Q 57.6	45.3	Q 38.1	Q 30.5	N 21.1
Building Newer than 1980	121	228	117	179	63	2,671	4,632	2,433		2,483	45.4	49.3			25.4
Energy Sources (more than one may apply)															
Electricity	418	659	327	347	119		12,850		10,509		54.7	51.3	40.3	33.0	27.3
Natural Gas	418	659	327	347	119	-	12,850		10,509		54.7	51.3	40.3		27.3
Fuel Oil	81	159	125	92	34	1,255	2,450	3,550	-	1,221	64.7	64.9	35.3	48.1	28.1
District Heat	Q	Q	Q	Q	Q	347	789	593	Q	Q	Q	22.1	Q	Q	Q
District Chilled Water	Q	Q 27	Q	Q	Q	Q	Q 790	Q	Q	Q	Q	Q 46.7	Q		Q
Propane Other	Q Q	37 Q	Q Q	Q Q	Q Q	Q Q	789 Q	Q Q	Q Q	Q Q	Q Q	46.7 Q	Q Q		Q Q
O U 101	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

Table C30. Natural Gas Consumption and Conditional Energy Intensity by Climate Zone^a for Non-Mall Buildings, 2003

	Total Natural Gas Consumption (billion cubic feet)						Total Floorspace of Buildings Using Natural Gas (million square feet)						Natural Gas Energy Intensity (cubic feet/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*	418	659	327	347	119	7,645	12,850	8,113	10,509	4,350	54.7	51.3	40.3	33.0	27.3		
Space-Heating Energy Sources																	
Natural Gas	407	637	302	316	88	7,142	11,538	6,236	9,362	2,679	56.9	55.2		33.7	32.8		
Natural Gas Main	381	603	286	288	78		10,640	5,617		2,233	58.5			36.2	35.0		
Natural Gas Secondary	26	33	16	28	10	627	898	620	1,397	446	41.2			19.7	21.7		
Other Excluding Natural Gas Buildings without Heating	Q Q	21 Q	22 Q	20 Q	30 Q	498 Q	1,267 Q	Q Q	925 Q	1,452 Q	21.3 Q	16.2 Q		21.2 Q	20.5 Q		
Primary Space-Heating Energy Source																	
Electricity	31	41	25	38	36	700	1,206	759	1,933		44.5	34.2		19.7	22.9		
Natural Gas	381	603	286	288	78	6,515	10,640	5,617		2,233	58.5			36.2	35.0		
Fuel Oil	Q 3	Q Q	Q Q	Q Q	N Q	Q 331	Q Q	Q 482	Q Q		Q 8.2				N Q		
District Heat	N N	Q N	Q N	Q	Q N	331 N	Q N	402 N	Q		0.2 N			Q Q	Q N		
Other	Q	Q	Q	Q	N	Q	Q	Q	Q		Q	Q			N		
Cooling Energy Sources	_	_	_	_	_		_	_	_	_	_	_	_	_	_		
Natural Gas	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q		Q	Q		
Other Excluding Natural Gas Buildings without Cooling	383 27	577 47	282 Q	319 15	115 Q	6,959 587	11,282 1,213	7,651 Q	9,806 469	4,307 Q	55.0 46.3	51.2 38.8			26.8 Q		
Water-Heating Energy Sources																	
Natural Gas	335	497	253	278	101	5,482	8,466	4,892		2,913	61.2		51.6	39.3	34.7		
Other Excluding Natural Gas Bldgs without Water Heating	76 Q	136 26	68 Q	56 14	15 Q	1,792 Q	3,649 735	2,994 Q	2,689 752	1,189 Q	42.5 Q	37.2 35.8		20.6 18.2	12.5 Q		
Cooking Energy Sources	4-0		4=0	400													
Natural Gas	152	262	153	189	75	2,217	4,071	3,464	-	2,167	68.4				34.8		
Other Excluding Natural Gas Buildings without Cooking	29 237	71 326	15 159	10 148	Q 32	511 4,917	1,343 7,437	559 4,091	396 6,594	410 1,773	57.6 48.3	52.8 43.9			27.5 18.0		
Energy End Uses (more than one may apply)																	
Buildings with Space Heating	417	657	324	336	118	7,640	12,805	8,109	10,288	4,132	54.6	51.3	40.0	32.6	28.4		
Buildings with Cooling	391	612	312	332	119		11,637		10,040	-	55.4	52.6		33.1	27.3		
Buildings with Water Heating	411	632	321	333	116		12,115	7,886		4,102	56.6			34.2	28.2		
Buildings with Cooking	181 25	332 19	168 37	199 16	87 Q	2,728 522	5,413 480	4,023 692	3,915 522	2,577 Q	66.4 47.3				33.7 Q		
Buildings with Electricity Generation	85	198	102	102	32	1,418	3,236	2,236	2,260	1,252	60.1	61.1	45.4	45.1	25.3		
Percent of Floorspace Heated																	
Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q		Q		483.0		Q		
1 to 50	20	22		22	3	597	770	946	1,242		32.8				6.2		
51 to 99	66 331	62 573	52 245	57 256	22 92	1,082 5,961	1,350 10,685	1,132 6,030	1,879 7,167	522 3,159					42.9 29.2		
Percent of Floorspace Cooled																	
Not Cooled	27	47	Q	15	Q	587	1,213	Q	469						Q		
1 to 50	129	159	86	53	Q	2,420	3,668	2,787	2,595		53.3				16.9		
51 to 99	110 153	155 297	81 145	70 200	21 86	1,984 2,654	2,806 5.162	2,197	2,050 5,305	694 2,990	55.2 57.6			34.4 38.7	30.3 28.9		
100	153	297	145	209	00	2,654	5,162	2,958	5,395	∠,⊎90	٥.١٥	57.5	49.1	30.7	∠0.9		

Table C30. Natural Gas Consumption and Conditional Energy Intensity by Climate Zone^a for Non-Mall Buildings, 2003

	Total Natural Gas Consumption (billion cubic feet)						Total Floorspace of Buildings Using Natural Gas (million square feet)						Natural Gas Energy Intensity (cubic feet/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*	418	659	327	347	119	7,645	12,850	8,113	10,509	4,350	54.7	51.3	40.3	33.0	27.3			
Heating Equipment (more																		
than one may apply)																		
Heat Pumps	30	63	42	62	20	540	951	1,274	2,090	698	56.3	65.8	32.8	29.8	28.9			
Packaged Heat Pumps	Q Q	Q Q	25 Q	Q 17	13 Q	Q Q	655 Q	778 Q	1,093 640	505 Q	Q Q	66.1 Q	32.1 Q	Q 27.3	26.6 Q			
Split-System Heat Pumps Individual Room Heat Pumps	Q	Q	15	17	Q	Q	Q	449	762	Q	Q		32.8	22.3	Q			
Furnaces	168	248	87	119	31	3,534	5,239	1,911	3,529		47.6	47.3	45.6	33.8	28.1			
Individual Space Heaters	108	120	72	52	16	2,259	2,849	1,662	1,685	513	47.6	42.2	43.1	30.9	31.9			
District Heat	Q	Q	Q	Q	Q	323	Q	511	Q	Q	Q		Q		Q			
Boilers	227	383	204	148	47	3,450	5,903	4,328	3,273	1,219	65.7	64.8	47.2	45.2	38.3			
Packaged Heating Units	105	180	94	131	54	1,863	3,229	2,380	4,441	1,704	56.4	55.9	39.4	29.5	31.7			
Other	17	14	Q	Q	Q	499	393	Q	Q	Q	33.7	35.7	Q	Q	Q			
Cooling Equipment (more than one may apply) Residential-Type Central																		
Air Conditioners	104	132	71	53	18	1,670	2,493	1,708	1,418	692	62.5	52.8	41.8	37.7	26.4			
Heat Pumps	31	68	44	63	20	568	1,036	1,271	2,216	740	54.6	65.9	34.9	28.4	27.5			
Packaged Heat Pumps	19	Q	27	Q	13	320	721	818	1,015	478	60.1	67.0	33.3	Q	28.0			
Split-System Heat Pumps	Q	Q	Q	19	Q	Q	Q	Q	645	Q	Q	Q	Q	28.9	Q			
Individual Room Heat Pumps	Q	Q	15	18	Q	Q	Q	412	931	Q	Q	Q	35.7	19.7	Q			
Individual Air Conditioners	109	155	59	58	18	1,766	2,730	2,149	1,739	729	61.8		27.3	33.1	24.4			
District Chilled Water	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q			
Central Chillers	84	176	103	77	47	1,360	2,353	1,824	2,057	1,505	61.5	74.7	56.2	37.4	31.0			
Packaged Air Conditioning Units	235	373	186	202	61	4,195	6,748	4,769	6,199	1,896	56.1	55.3	39.0	32.5	32.0			
Swamp Coolers	31	Q	Q	Q	Q	500	0,740 Q	4,703 Q	0,133 Q	1,030 Q	61.4	33.3 Q	00.0 Q	02.5 Q	02.0 Q			
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q		Q	Q	Q			
Main Equipment Replaced Since 1990 (more than one may apply) Heating	132	229	108	90	27	2,495	3,951	2,409	2 310	1,111	53.0	58.0	44.9	39.0	24.4			
Cooling	171	292	144	105	43	2,936	4,728	3,755	,	1,608	58.1	61.8	38.4	34.8	27.0			
Water Heating Favingsont																		
Water Heating Equipment Centralized System	285	402	199	224	79	4,862	7,466	4,960	5 532	2,533	58.6	53.9	40.1	40.6	31.2			
Distributed System	48	97	36	47	18	973	2,378	1,428	2,135	645	49.7	40.9	25.4	22.2	27.2			
Combination of Centralized		٠.		• • •		0.0	_,0.0	.,0	_,	0.0								
and Distributed System	78	133	86	62	19	1,439	2,271	1,498	2,090	924	54.4	58.5	57.3	29.5	20.7			
Energy-Related Space Functions (more than one may apply)																		
Commercial Food Preparation	181	332	168	199	87	2,728	5,402	4,023	3,915	2,577	66.4	61.4	41.7	50.8	33.7			
Activities with Large																		
Amounts of Hot Water Separate Computer Area	193 158	296 332	139 164	204 135	71 60	2,903 3,065	4,514 5,960	3,303 4,677		1,818 2,182	66.4 51.4		42.2 35.0		39.2 27.4			
HVAC Conservation Features (more than one may apply)																		
Variable Air-Volume System	135	246	129	127	51	2,506	4,172	2,922	2,931	2,063	53.8	59.0	44.2	43.2	24.8			
Economizer Cycle	185	298	125	122		3,349	4,824	3,401		1,508					33.0			
HVAC Maintenance	342	577	282	302	106	6,236	10,916	7,234	8,831	3,767	54.8	52.8	39.0	34.2	28.2			
Energy Management and	4.00	4-6				0.0=:	0.0==	0.00:	0	4 =	F • •		o= -	00 =	0			
Control System (EMCS)	103	170	79	73	37	2,071	3,275	2,224	2,549	1,507	50.0	51.9	35.7	28.7	24.6			

Table C30. Natural Gas Consumption and Conditional Energy Intensity by Climate Zone^a for Non-Mall Buildings, 2003

		Co	Natura nsumpt	tion		Total Floorspace of Buildings Using Natural Gas (million square feet)						Natural Gas Energy Intensity (cubic feet/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*	418	659	327	347	119	7,645	12,850	8,113	10,509	4,350	54.7	51.3	40.3	33.0	27.3		
Equipment Usage Reduced When Building Not In Full Use (more than one may apply) ^b																	
Heating	271	445	252	205	82	5,471	9,069	6,259	7,493	2,887	49.4	49.0	40.2	27.3	28.3		
Cooling	273	421	244	218	94	5,274	8,512	6,533	7,662		51.8	49.5	37.3	28.4	27.1		
Lighting	309	432	201	218	52	5,799	9,297	5,309	,	2,869	53.3		37.8	28.0	18.3		
Office Equipment	127	171	84	65	16	2,606	4,072	2,335	2,753	904	48.6	41.9	35.9	23.6	17.5		
Annual Consumption (hundred cubic feet)																	
1,000 or Less	7	9	4	13	3	512	709	863	1,556	697	13.5	12.8	Q	8.2	3.8		
1,001 to 5,000	51	84	36	59	12	1,598	2,690	1,425	3,143	878	31.7	31.4	24.9	18.9	13.5		
5,001 to 10,000	62	84	37	37	19	1,132	1,782	967	1,343	1,030	55.2	47.1	38.5	27.5	18.1		
10,001 to 25,000	94	111	51	65	27	1,515	2,388	1,535	1,658	671	62.0	46.7	33.5	39.0	40.4		
25,001 to 50,000	74	86	50	60	Q	1,198	1,780	1,309	842	405	61.6	48.4	38.0	71.3	34.6		
50,001 to 100,000	39	75	58	Q	Q	673	1,321	859	Q	Q	58.6	56.6	67.1	Q	Q		
Over 100,000	91	209	91	83	36	1,017	2,181	1,155	1,022	499	89.7	95.7	78.7	81.2	71.6		
Provider of Natural Gas (more than one may apply)																	
Local Utility	360	532	269	312	109	6,785	10,649	7,347	9,557	4,024	53.1	49.9	36.6	32.6	27.1		
Some Other Provider	80	159	81	42	Q	1,143	2,543	1,276	1,032	Q	69.8	62.6	63.6	40.5	Q		

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.

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.

^{*} 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 3.8 percent of total natural gas 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 that use natural gas.