

Table 5.20. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, U.S. Households, 1993

Characteristics	Electricity Used for All Air Conditioning			Electricity Used for Central Air Conditioning ²									RSE Row Factors
	Households (million)	Total Consumption (quadrillion Btu)	Total Expenditures (billion dollars)	Households (million)	per Household								
					Consumption		Expenditures (dollars)	Cooled Floor-space (square feet)	Annual Cooling Degree-Days		Electric Air-Conditioning Intensity		
					(million Btu)	(kWh)			1993	30-Year Average ³	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
RSE Column Factors:	1.0	1.4 ¹	1.4 ¹	1.4	0.9 ¹	0.9 ¹	1.0 ¹	0.7	0.8	0.8	0.8 ¹	0.8 ¹	
Total U.S. Households	63.9	0.46	11.30	41.0	9.1	2,667	222	2,058	1,691	1,598	0.77	6.4	2.2
Census Region and Division													
Northeast	10.9	.04	1.39	3.8	6.3	1,848	218	2,508	896	690	.82	9.7	6.5
New England	2.1	.01	.23	.6	6.7	1,951	209	2,746	730	521	.97	10.4	11.9
Middle Atlantic	8.8	.03	1.15	3.2	6.2	1,829	220	2,465	927	721	.80	9.6	7.3
Midwest	16.4	.08	1.90	10.5	6.0	1,772	143	2,372	851	873	.88	7.1	4.4
East North Central	10.8	.05	1.25	6.7	5.8	1,713	146	2,379	817	800	.88	7.5	5.6
West North Central	5.6	.03	.64	3.8	6.4	1,875	139	2,360	910	1,002	.87	6.5	6.3
South	29.4	.31	7.11	21.5	12.0	3,509	277	1,883	2,261	2,117	.82	6.5	2.7
South Atlantic	15.0	.14	3.45	11.1	10.9	3,186	262	1,895	2,283	2,071	.74	6.1	4.1
East South Central	5.3	.05	.97	3.4	11.7	3,439	216	2,080	1,793	1,671	.92	5.8	5.0
West South Central	9.2	.11	2.69	6.9	13.9	4,063	331	1,765	2,457	2,412	.94	7.6	4.7
West	7.1	.03	.91	5.1	5.5	1,597	162	1,811	1,624	1,587	.54	5.5	7.4
Mountain	2.1	.01	.36	1.7	7.9	2,310	212	1,634	2,816	2,690	.50	4.6	11.1
Pacific	5.1	.02	.55	3.5	4.3	1,259	138	1,895	1,059	1,063	.63	6.9	8.9
Largest Populated States													
California	4.4	.02	.53	3.2	4.3	1,273	146	1,824	1,134	1,135	.62	7.0	8.7
Florida	5.1	.06	1.44	4.4	12.4	3,634	302	1,798	3,145	3,072	.64	5.3	5.1
New York	3.9	.01	.50	1.1	5.9	1,732	248	2,610	806	633	.82	11.8	15.1
Texas	5.8	.07	1.65	4.4	13.9	4,062	330	1,838	2,608	2,564	.85	6.9	6.6
Urban Status													
Urban	50.2	.36	9.16	33.5	9.1	2,666	227	2,040	1,737	1,628	.75	6.4	2.6
Central City	18.9	.13	3.18	11.4	8.9	2,595	218	1,651	1,995	1,884	.79	6.6	4.1
Suburban	31.3	.24	5.98	22.1	9.2	2,703	232	2,240	1,604	1,497	.75	6.5	2.9
Rural	13.7	.10	2.14	7.4	9.1	2,673	201	2,137	1,488	1,461	.84	6.3	4.1
Climate Zone ³													
Under 2,000 CDD and													
Over 7,000 HDD	4.0	.01	.26	2.2	4.0	1,162	87	2,727	456	564	.94	7.0	12.7
5,500 to 7,000 HDD	15.4	.06	1.66	8.7	5.6	1,650	143	2,239	815	780	.90	7.8	7.3
4,000 to 5,499 HDD	16.0	.10	2.57	9.0	8.4	2,448	210	2,333	1,292	1,134	.81	7.0	6.4
Under 4,000 HDD	10.3	.08	1.84	6.8	8.8	2,587	213	1,874	1,630	1,467	.85	7.0	8.1
2,000 CDD or More and													
Under 4,000 HDD	18.1	.21	4.98	14.2	12.6	3,702	305	1,756	2,702	2,615	.78	6.4	4.3
Type of Housing Unit													
Single-Family	45.1	.36	8.85	30.4	10.0	2,923	242	2,429	1,629	1,544	.74	6.1	2.7
Detached	39.9	.33	7.90	26.5	10.2	2,975	245	2,514	1,618	1,539	.73	6.0	2.8
Attached	5.2	.04	.95	3.8	8.7	2,562	220	1,836	1,706	1,576	.82	7.0	8.1
Mobile Home	3.7	.03	.82	2.3	11.2	3,287	267	1,090	1,697	1,656	1.78	14.4	7.8
Multifamily	15.1	.06	1.63	8.3	5.3	1,567	139	968	1,917	1,778	.84	7.5	5.9
2 to 4 Units	3.9	.02	.43	1.3	6.6	1,921	176	1,176	1,874	1,776	.87	8.0	9.9
5 or More Units	11.2	.04	1.20	7.0	5.1	1,501	132	930	1,925	1,779	.84	7.4	6.7

See footnotes at end of table.

Table 5.20. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, U.S. Households, 1993 (Continued)

Characteristics	Electricity Used for All Air Conditioning			Electricity Used for Central Air Conditioning ²									RSE Row Factors
	Households (million)	Total Consumption (quadrillion Btu)	Total Expenditures (billion dollars)	Households (million)	per Household								
					Consumption		Expenditures (dollars)	Cooled Floorspace (square feet)	Annual Cooling Degree-Days		Electric Air-Conditioning Intensity		
					(million Btu)	(kWh)			1993	30-Year Average ³	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
RSE Column Factors:	1.0	1.4 ¹	1.4 ¹	1.4	0.9 ¹	0.9 ¹	1.0 ¹	0.7	0.8	0.8	0.8 ¹	0.8 ¹	
Heated Floorspace (square feet)													
Fewer than 1,000	17.1	0.08	2.03	8.2	6.1	1,797	151	835	1,888	1,765	1.14	9.6	4.5
1,000 to 1,999	27.4	.20	5.03	18.3	9.1	2,670	222	1,674	1,808	1,718	.88	7.3	2.9
2,000 to 2,999	12.8	.11	2.60	9.3	10.2	2,991	247	2,684	1,530	1,446	.73	6.0	3.8
3,000 or More	6.6	.07	1.64	5.1	11.9	3,475	293	4,267	1,250	1,174	.65	5.5	6.2
Total Number of Rooms (Excluding Bathrooms)													
1 or 2	1.6	(*)	.13	.5	5.1	1,484	118	627	2,393	2,232	.99	7.9	14.9
3 to 5	30.3	.17	4.23	17.9	7.0	2,065	173	1,330	1,792	1,693	.87	7.3	3.6
6 to 8	27.7	.23	5.69	19.0	10.4	3,062	252	2,491	1,637	1,547	.75	6.2	3.1
9 or More	4.3	.05	1.25	3.5	13.0	3,806	330	3,670	1,366	1,286	.76	6.6	7.5
Ownership of Unit													
Owned	44.2	.36	8.78	30.1	10.0	2,932	243	2,381	1,629	1,545	.76	6.3	2.5
Rented	19.7	.10	2.52	10.8	6.6	1,930	164	1,158	1,866	1,744	.89	7.6	4.6
Public Housing	2.2	.01	.18	1.0	4.0	1,177	97	739	1,849	1,704	.86	7.1	14.0
Not Public Housing	17.5	.09	2.35	9.8	6.8	2,005	171	1,200	1,868	1,748	.89	7.6	4.7
Rent Subsidy	1.1	(*)	.11	.5	5.2	1,527	129	985	1,425	1,254	1.09	9.2	15.7
No Rent Subsidy	16.4	.09	2.24	9.3	6.9	2,031	173	1,212	1,892	1,774	.89	7.5	4.9
Year of Construction													
1939 or Before	9.9	.04	1.10	2.5	8.1	2,384	197	2,473	1,198	1,169	.80	6.6	7.3
1940 to 1949	3.8	.02	.50	1.5	6.8	1,988	166	1,989	1,287	1,195	.78	6.5	9.0
1950 to 1959	8.4	.06	1.53	4.6	8.7	2,548	236	2,208	1,591	1,488	.73	6.7	6.2
1960 to 1969	10.5	.07	1.84	6.7	9.1	2,657	223	2,112	1,587	1,499	.79	6.6	5.1
1970 to 1979	12.4	.10	2.32	8.8	9.5	2,784	224	1,900	1,796	1,706	.82	6.6	4.5
1980 to 1984	6.7	.06	1.45	5.7	9.9	2,887	239	1,805	1,952	1,844	.82	6.8	5.2
1985 to 1987	4.7	.04	1.04	4.1	9.8	2,867	240	1,985	1,870	1,743	.77	6.5	7.6
1988 to 1990	3.8	.03	.77	3.4	8.9	2,596	213	2,159	1,635	1,537	.74	6.0	6.1
1991 to 1993 ⁴	3.8	.03	.74	3.6	8.6	2,526	205	2,281	1,710	1,626	.65	5.3	8.6
Electric Air-Conditioning Paid by Household													
Yes	62.6	.45	11.15	39.6	9.2	2,709	226	2,094	1,689	1,597	.77	6.4	2.3
No	1.3	.01	.15	1.3	4.8	1,420	115	978	1,760	1,632	.82	6.7	14.5
1993 Family Income													
Less than \$5,000	2.4	.01	.33	1.1	6.7	1,963	168	1,098	1,974	1,829	.91	7.7	11.7
\$5,000 to \$9,999	6.1	.03	.68	2.7	6.6	1,934	157	1,228	1,851	1,750	.85	6.9	7.7
\$10,000 to \$14,999	6.3	.03	.74	3.1	6.0	1,763	149	1,475	1,790	1,679	.67	5.7	5.7
\$15,000 to \$19,999	6.0	.04	.91	3.3	7.8	2,296	191	1,641	1,772	1,687	.79	6.6	5.9
\$20,000 to \$24,999	5.5	.04	.88	3.4	7.7	2,257	190	1,664	1,683	1,614	.81	6.8	5.5
\$25,000 to \$34,999	9.7	.07	1.73	6.7	9.1	2,653	218	1,918	1,684	1,592	.82	6.8	4.5
\$35,000 to \$49,999	12.4	.10	2.37	8.4	9.8	2,863	233	2,181	1,731	1,652	.76	6.2	3.8
\$50,000 to \$74,999	9.0	.08	1.93	7.1	10.2	3,002	245	2,449	1,604	1,511	.76	6.2	4.4
\$75,000 or More	6.5	.07	1.74	5.2	11.9	3,483	309	3,007	1,511	1,392	.77	6.8	6.2

See footnotes at end of table.

Table 5.20. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, U.S. Households, 1993 (Continued)

Characteristics	Electricity Used for All Air Conditioning			Electricity Used for Central Air Conditioning ²									RSE Row Factors
	Households (million)	Total Consumption (quadrillion Btu)	Total Expenditures (billion dollars)	Households (million)	per Household								
					Consumption		Expenditures (dollars)	Cooled Floor-space (square feet)	Annual Cooling Degree-Days		Electric Air-Conditioning Intensity		
					(million Btu)	(kWh)			1993	30-Year Average ³	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
RSE Column Factors:	1.0	1.4 ¹	1.4 ¹	1.4	0.9 ¹	0.9 ¹	1.0 ¹	0.7	0.8	0.8	0.8 ¹	0.8 ¹	Factors
Below Poverty Line													
100 Percent	7.8	0.04	1.00	3.2	7.0	2,043	171	1,200	1,933	1,827	0.88	7.4	6.7
125 Percent	11.0	.06	1.38	4.5	6.8	1,986	167	1,282	1,810	1,709	.86	7.2	5.7
150 Percent	14.4	.08	1.92	6.4	7.4	2,161	179	1,355	1,881	1,771	.85	7.0	5.4
Eligible for Federal Assistance ⁵	17.6	.09	2.26	8.0	7.0	2,043	171	1,415	1,826	1,712	.79	6.6	5.0
Age of Householder													
Under 25 Years	3.2	.02	.49	2.2	7.2	2,125	176	1,166	1,973	1,844	.92	7.6	9.0
25 to 34 Years	13.3	.09	2.21	8.6	8.3	2,443	205	1,725	1,740	1,638	.81	6.8	3.7
35 to 44 Years	14.2	.12	2.86	9.6	10.2	3,000	247	2,186	1,673	1,571	.82	6.7	3.4
45 to 59 Years	14.7	.13	3.12	9.3	11.0	3,226	268	2,384	1,640	1,540	.83	6.9	3.8
60 Years and Over	18.5	.10	2.62	11.2	7.5	2,195	186	2,109	1,656	1,588	.63	5.3	4.7
Education of Householder													
Less than 13 Years	32.5	.21	4.99	17.8	8.4	2,464	201	1,831	1,644	1,559	.82	6.7	2.9
13 to 16 Years	23.2	.18	4.60	17.0	9.5	2,787	236	2,158	1,726	1,631	.75	6.3	2.9
17 Years and More	8.2	.07	1.71	6.1	10.0	2,923	250	2,439	1,732	1,620	.69	5.9	5.2
Race of Householder													
White	54.4	.40	9.79	35.8	9.2	2,696	225	2,149	1,661	1,575	.76	6.3	2.3
Black	6.7	.04	1.09	3.5	8.8	2,579	211	1,395	1,916	1,732	.96	7.9	6.4
Other ⁶	2.8	.02	.42	1.7	7.7	2,242	199	1,494	1,879	1,800	.80	7.1	10.3
Householder of Hispanic Descent													
Yes	4.3	.03	.72	2.5	8.6	2,507	219	1,732	2,040	1,934	.71	6.2	8.4
No	59.6	.43	10.58	38.4	9.1	2,678	223	2,079	1,669	1,576	.77	6.4	2.5
Household Size													
1 Person	14.9	.07	1.78	8.9	6.1	1,791	153	1,471	1,729	1,631	.70	6.0	4.1
2 Persons	21.8	.15	3.77	14.5	8.8	2,579	212	2,132	1,667	1,569	.73	6.0	3.2
3 Persons	11.1	.09	2.23	7.1	10.3	3,032	252	2,050	1,769	1,669	.84	6.9	3.9
4 Persons	9.9	.08	2.08	6.6	10.8	3,153	263	2,395	1,632	1,557	.81	6.7	3.8
5 Persons	4.2	.04	.96	2.8	11.2	3,283	274	2,527	1,600	1,515	.81	6.8	5.9
6 or More Persons	1.9	.02	.48	1.1	13.8	4,043	350	2,624	1,795	1,712	.86	7.4	10.9
Cooling Degree-Days (CDD)-1993													
2,000 or More	17.0	.20	4.84	13.5	13.0	3,815	314	1,726	2,852	2,722	.77	6.4	4.3
1,000 to 1,999	24.4	.18	4.30	16.0	8.8	2,578	210	2,070	1,455	1,323	.86	7.0	5.0
500 to 999	17.4	.07	1.89	8.5	5.5	1,620	152	2,398	764	714	.88	8.3	5.6
Fewer than 500	5.0	.01	.28	3.0	3.2	927	75	2,531	342	498	1.07	8.6	7.5
Average Electricity Expenditures (cents per kWh)													
Less than 6	5.1	.04	.64	3.4	9.9	2,890	158	2,372	1,235	1,182	.99	5.4	9.2
6 to Less than 9	33.2	.29	6.60	23.0	10.4	3,062	237	2,057	1,865	1,772	.80	6.2	3.6
9 or More	25.6	.13	4.06	14.5	6.8	1,991	215	1,987	1,524	1,418	.66	7.1	4.7

See footnotes at end of table.

Table 5.20. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, U.S. Households, 1993 (Continued)

Characteristics	Electricity Used for All Air Conditioning			Electricity Used for Central Air Conditioning ²									RSE Row Factors
	Households (million)	Total Consumption (quadrillion Btu)	Total Expenditures (billion dollars)	Households (million)	per Household								
					Consumption		Expenditures (dollars)	Cooled Floor-space (square feet)	Annual Cooling Degree-Days		Electric Air-Conditioning Intensity		
					(million Btu)	(kWh)			1993	30-Year Average ³	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
RSE Column Factors:	1.0	1.4 ¹	1.4 ¹	1.4	0.9 ¹	0.9 ¹	1.0 ¹	0.7	0.8	0.8	0.8 ¹	0.8 ¹	
Number of Rooms Air Conditioned													
1 to 3	18.5	0.05	1.40	4.1	4.5	1,327	114	753	1,923	1,793	0.92	7.9	4.8
4 to 6	31.1	Q	5.77	23.7	8.3	2,439	202	1,730	1,732	1,647	.81	6.7	3.0
7 or More	14.4	.17	4.13	13.2	11.9	3,487	292	3,044	1,547	1,450	.74	6.2	3.8
Frequency of Use of Air Conditioning ⁷													
Only a Few Times	25.3	.07	1.95	12.8	3.9	1,154	104	2,020	1,295	1,246	.44	4.0	3.2
Quite a Bit	14.7	.10	2.62	8.9	8.1	2,369	208	2,085	1,517	1,414	.75	6.6	3.9
All Summer	23.8	.28	6.72	19.3	13.0	3,809	308	2,070	2,035	1,916	.90	7.3	2.7
Age of Air Conditioning Equipment ⁷													
Less than 5 Years	18.8	.13	3.19	11.7	8.6	2,506	209	2,223	1,655	1,564	.68	5.7	3.7
5 to 9 Years	17.4	.13	3.20	10.4	10.0	2,932	242	2,208	1,703	1,603	.78	6.4	4.1
10 or More Years	19.6	.15	3.68	13.3	9.6	2,800	236	2,156	1,628	1,548	.80	6.7	3.9
Don't Know	7.2	.05	1.12	4.7	8.0	2,354	195	1,224	1,971	1,855	.98	8.1	5.9

¹ This factor is underestimated because it contains no error for estimating this end use.

² An estimated 1.7 million households have a central air conditioner and one or more room air conditioners. These households are included only under central air conditioners and not included under room air conditioners.

³ The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

⁴ Does not include all new construction for 1993.

⁵ Below 150 percent of poverty line or 60 percent of median State income.

⁶ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

⁷ If a household has both a central and room air conditioner then the usage and age of the equipment is presented only for the central unit.

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

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • This table reflects only those households that used their air conditioning equipment. • See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.21. Electricity Consumption and Expenditures for Room Air Conditioning, per U.S. Household, 1993

Characteristics	House holds (million)	Consumption		Expenditures (dollars)	Cooled Floorspace (square feet)	Annual Cooling Degree-Days		Electric Air-Conditioning Intensity		RSE Row Factors
		(million Btu)	(kWh)			1993	30-Year Average ²	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
RSE Column Factors:	1.3	1.1 ¹	1.1 ¹	1.1 ¹	0.9	0.8	0.9	0.9 ¹	1.0 ¹	
Total U.S. Households	22.9	3.6	1,067	95	954	1,296	1,186	0.86	7.7	3.6
Census Region and Division										
Northeast	7.1	2.1	624	78	909	951	748	.72	9.0	5.0
New England	1.5	2.1	606	69	911	770	556	.86	9.9	8.2
Middle Atlantic	5.6	2.1	629	80	908	1,000	800	.69	8.8	5.9
Midwest	5.9	2.7	783	66	1,092	775	783	.93	7.8	5.1
East North Central	4.1	2.7	783	68	1,132	768	729	.90	7.8	6.7
West North Central	1.8	2.7	785	60	1,001	792	906	.99	7.6	5.2
South	7.9	6.3	1,838	146	945	2,083	1,931	.93	7.4	4.9
South Atlantic	3.8	5.7	1,683	140	880	2,061	1,810	.93	7.7	7.7
East South Central	1.8	6.5	1,904	125	1,075	1,731	1,626	1.02	6.7	6.4
West South Central	2.3	7.0	2,044	172	950	2,397	2,370	.90	7.6	8.4
West	2.0	1.4	417	41	749	928	974	.60	5.9	9.9
Mountain .....	.4	1.4	406	33	674	846	988	.71	5.7	22.9
Pacific	1.6	1.4	420	43	769	951	971	.57	5.9	11.2
Largest Populated States										
California	1.2	1.5	443	49	765	1,030	1,033	.56	6.2	11.9
Florida .....	.8	6.3	1,841	159	720	3,651	3,433	.70	6.0	15.7
New York	2.8	1.8	518	81	736	1,042	861	.67	10.6	5.4
Texas	1.4	6.3	1,843	152	854	2,589	2,568	.83	6.9	12.1
Urban Status										
Urban	16.6	3.3	969	92	908	1,314	1,171	.81	7.7	4.5
Central City	7.5	3.3	962	93	788	1,448	1,295	.84	8.2	6.2
Suburban	9.1	3.3	975	91	1,007	1,204	1,069	.80	7.5	5.7
Rural	6.2	4.5	1,328	103	1,075	1,247	1,226	.99	7.7	5.6
Climate Zone ²										
Under 2,000 CDD and Over 7,000 HDD	1.8	1.5	438	34	1,093	420	509	.95	7.4	11.0
5,500 to 7,000 HDD	6.7	2.3	661	62	946	754	661	.93	8.6	5.3
4,000 to 5,499 HDD	7.0	3.3	981	97	1,036	1,162	1,004	.82	8.0	5.5
Under 4,000 HDD	3.5	4.7	1,372	113	846	1,601	1,462	1.01	8.3	8.8
2,000 CDD or More and Under 4,000 HDD	3.8	6.7	1,959	162	851	2,632	2,515	.88	7.3	6.8
Type of Housing Unit										
Single-Family	14.7	4.0	1,187	101	1,129	1,334	1,232	.79	6.7	4.2
Detached	13.3	4.2	1,229	104	1,169	1,334	1,245	.79	6.6	4.4
Attached	1.4	2.6	770	78	739	1,325	1,096	.79	8.0	11.4
Mobile Home	1.5	6.4	1,885	150	649	1,297	1,209	2.24	17.8	8.2
Multifamily	6.8	2.2	633	69	640	1,214	1,083	.81	8.9	5.8
2 to 4 Units	2.6	2.5	723	77	752	1,329	1,168	.72	7.7	8.4
5 or More Units	4.2	2.0	577	65	571	1,143	1,030	.88	9.9	7.1
Heated Floorspace (square feet)										
Fewer than 1,000	8.9	3.3	975	88	556	1,470	1,339	1.19	10.8	5.0
1,000 to 1,999	9.1	4.1	1,202	105	1,018	1,299	1,211	.91	7.9	4.5
2,000 to 2,999	3.4	3.2	926	87	1,315	967	869	.73	6.9	5.6
3,000 or More	1.5	3.8	1,122	96	2,124	996	858	.53	4.5	10.2
Total Number of Rooms (Excluding Bathrooms)										
1 or 2	1.1	2.0	584	64	448	1,304	1,162	1.00	10.9	9.6
3 to 5	12.4	3.5	1,018	91	776	1,333	1,223	.98	8.8	4.1
6 to 8	8.6	4.0	1,164	102	1,194	1,247	1,140	.78	6.9	4.6
9 or More .....	.8	4.8	1,403	121	1,758	1,236	1,147	.65	5.5	14.8

See footnotes at end of table.

Table 5.21. Electricity Consumption and Expenditures for Room Air Conditioning, per U.S. Household, 1993 (Continued)

Characteristics	House holds (million)	Consumption		Expenditures (dollars)	Cooled Floorspace (square feet)	Annual Cooling Degree-Days		Electric Air-Conditioning Intensity		RSE Row Factors
		(million Btu)	(kWh)			1993	30-Year Average ²	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
RSE Column Factors:	1.3	1.1 ¹	1.1 ¹	1.1 ¹	0.9	0.8	0.9	0.9 ¹	1.0 ¹	
Ownership of Unit										
Owned	14.0	4.0	1,180	102	1,151	1,242	1,149	0.83	7.1	3.9
Rented	8.9	3.0	890	85	644	1,380	1,244	1.00	9.5	5.4
Public Housing	1.2	2.6	762	65	495	1,446	1,268	1.07	9.1	10.0
Not Public Housing	7.6	3.1	911	88	668	1,369	1,240	.99	9.6	5.8
Rent Subsidy .....	.6	2.3	686	69	603	1,289	1,183	.88	8.9	16.8
No Rent Subsidy	7.0	3.2	930	89	674	1,376	1,245	1.00	9.6	6.0
Year of Construction										
1939 or Before	7.3	3.0	889	82	1,056	1,137	1,047	.74	6.8	5.5
1940 to 1949	2.3	4.3	1,261	111	977	1,458	1,322	.89	7.8	7.7
1950 to 1959	3.7	4.4	1,283	115	970	1,451	1,315	.91	8.2	7.3
1960 to 1969	3.8	3.5	1,027	92	859	1,402	1,246	.85	7.6	7.6
1970 to 1979	3.5	3.7	1,091	95	862	1,210	1,152	1.05	9.1	7.8
1980 to 1984	1.0	3.7	1,079	92	926	1,343	1,241	.87	7.4	11.7
1985 to 1987 .....	.5	4.1	1,192	98	927	1,527	1,402	.84	6.9	16.4
1988 to 1990 .....	.4	4.5	1,308	103	791	1,045	928	1.58	12.5	16.0
1991 to 1993 ³ .....	.2	2.9	835	63	662	1,470	1,432	Q	Q	27.6
Electric Air-Conditioning Paid by Household										
Yes	21.4	3.7	1,089	97	985	1,287	1,183	.86	7.6	3.9
No	1.5	2.5	747	70	501	1,424	1,234	1.05	9.8	8.9
1993 Family Income										
Less than \$5,000	1.3	4.0	1,162	107	624	1,576	1,421	1.18	10.9	8.2
\$5,000 to \$9,999	3.4	3.1	898	78	708	1,414	1,328	.90	7.7	6.7
\$10,000 to \$14,999	3.2	3.5	1,021	87	809	1,463	1,363	.86	7.4	6.4
\$15,000 to \$19,999	2.7	4.1	1,203	101	1,002	1,463	1,345	.82	6.9	9.2
\$20,000 to \$24,999	2.1	4.3	1,263	108	888	1,320	1,226	1.08	9.2	8.2
\$25,000 to \$34,999	2.9	3.4	1,010	89	1,002	1,154	1,061	.87	7.7	6.6
\$35,000 to \$49,999	4.0	3.7	1,085	101	1,147	1,131	1,010	.84	7.8	7.1
\$50,000 to \$74,999	2.0	3.6	1,054	98	1,162	1,036	913	.88	8.2	7.4
\$75,000 or More	1.3	3.5	1,017	103	1,297	1,117	977	.70	7.1	11.8
Below Poverty Line										
100 Percent	4.7	3.8	1,107	97	671	1,581	1,467	1.04	9.1	5.1
125 Percent	6.4	3.8	1,107	96	718	1,541	1,437	1.00	8.7	4.8
150 Percent	8.0	3.9	1,130	97	744	1,535	1,430	.99	8.5	4.5
Eligible for Federal Assistance ⁴										
.....	9.6	3.6	1,061	92	779	1,454	1,346	.94	8.1	4.3
Age of Householder										
Under 25 Years	1.0	3.7	1,070	93	685	1,418	1,329	1.10	9.6	11.4
25 to 34 Years	4.7	3.7	1,081	98	791	1,307	1,203	1.05	9.5	6.0
35 to 44 Years	4.5	4.0	1,166	106	969	1,349	1,211	.89	8.1	6.4
45 to 59 Years	5.3	4.4	1,299	113	1,111	1,282	1,179	.91	7.9	5.6
60 Years and Over	7.3	2.8	827	73	971	1,250	1,146	.68	6.0	5.0
Education of Householder										
Less than 13 Years	14.6	3.8	1,119	96	883	1,382	1,271	.92	7.9	4.0
13 to 16 Years	6.2	3.4	1,002	94	1,057	1,141	1,042	.83	7.8	5.3
17 Years or More	2.1	3.1	896	88	1,149	1,152	1,016	.68	6.7	9.1
Race of Householder										
White	18.6	3.6	1,057	93	1,021	1,218	1,116	.85	7.5	4.0
Black	3.2	4.2	1,221	108	665	1,710	1,540	1.07	9.5	6.2
Other ⁵	1.1	2.7	788	81	646	1,420	1,349	.86	8.9	12.5

See footnotes at end of table.

Table 5.21. Electricity Consumption and Expenditures for Room Air Conditioning, per U.S. Household, 1993 (Continued)

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Cooled Floorspace (square feet)	Annual Cooling Degree-Days		Electric Air-Conditioning Intensity		RSE Row Factors
		(million Btu)	(kWh)			1993	30-Year Average ²	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
RSE Column Factors:	1.3	1.1 ¹	1.1 ¹	1.1 ¹	0.9	0.8	0.9	0.9 ¹	1.0 ¹	
Householder of Hispanic Descent										
Yes	1.8	3.4	996	96	695	1,873	1,740	0.77	7.4	12.2
No	21.1	3.7	1,073	95	976	1,247	1,140	.88	7.8	3.4
Household Size										
1 Person	6.0	2.7	780	71	783	1,273	1,169	.78	7.1	5.6
2 Persons	7.3	3.6	1,045	93	1,017	1,317	1,208	.78	7.0	4.8
3 Persons	4.0	4.4	1,278	112	1,059	1,306	1,170	.92	8.1	7.1
4 Persons	3.3	4.0	1,171	106	988	1,208	1,103	.98	8.9	7.3
5 Persons	1.4	5.2	1,515	127	1,014	1,442	1,356	1.04	8.7	9.0
6 or More Persons .....	.8	4.0	1,167	106	895	1,333	1,248	.98	8.8	13.0
Cooling Degree-Days (CDD)-1993										
2,000 or More	3.5	7.0	2,056	170	826	2,798	2,637	.89	7.4	6.8
1,000 to 1,999	8.4	4.2	1,220	110	937	1,453	1,296	.90	8.1	4.7
500 to 999	8.9	2.4	707	67	1,011	782	680	.89	8.5	4.8
Fewer than 500	2.1	1.1	322	27	993	327	458	.99	8.2	7.3
Average Electricity Expenditures (cents per kWh)										
Less than 6	1.6	3.9	1,143	63	909	950	960	1.32	7.3	11.2
6 to Less than 9	10.1	4.9	1,448	112	1,081	1,492	1,403	.90	7.0	5.3
9 or More	11.1	2.4	708	84	844	1,168	1,022	.72	8.5	4.8
Number of Rooms Air Conditioned										
1 Room	4.8	1.5	436	44	308	1,176	1,039	1.21	12.3	4.3
2 Rooms	5.4	2.5	718	69	606	1,274	1,155	.93	8.9	4.1
3 or More	12.7	5.0	1,456	125	1,348	1,351	1,255	.80	6.9	4.3
Frequency of Use of Air Conditioning										
Only a Few Times	12.5	1.8	524	50	920	1,107	1,016	.51	4.9	3.9
Quite a Bit	5.8	4.9	1,430	132	978	1,385	1,257	1.06	9.8	4.7
All Summer	4.6	7.2	2,097	172	1,016	1,702	1,562	1.21	9.9	5.6
Age of Air Conditioning Equipment										
Less than 5 Years	7.1	4.1	1,189	105	908	1,420	1,282	.92	8.2	5.6
5 to 9 Years	6.9	3.7	1,092	98	1,023	1,276	1,166	.84	7.5	5.0
10 or More Years	6.3	3.3	980	87	1,039	1,158	1,075	.81	7.2	5.5
Don't Know	2.5	3.0	875	79	679	1,348	1,249	.96	8.6	8.1
Number of Room Air Conditioners										
1	14.8	3.0	894	79	763	1,239	1,141	.95	8.4	3.5
2	6.0	4.2	1,237	110	1,163	1,363	1,237	.78	7.0	6.3
3 or More	2.1	6.2	1,820	164	1,718	1,512	1,362	.70	6.3	7.8

¹ This factor is underestimated because it contains no error for estimating this end use.

² The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

³ Does not include all new construction for 1993.

⁴ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • This table reflects only those households that used their air conditioning equipment. • See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).