2001 Consumption and Expenditures Tables

Electric Air-Conditioning Expenditures Tables

(20 pages, 82 kb)

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These data are from the 2001 Residential Energy Consumption Survey (RECS) which provides information on the use of energy in residential housing units in the United States. The RECS is a national statistical survey that collects energy-related data for occupied primary housing units. RECS was first conducted in 1978; the twelfth and most recent survey was conducted in 2001. In the 2001 RECS, data were collected from a sample of 4,822 households in housing units statistically selected to represent the 107.0 million housing units in the United States. The RECS data are available for the four Census regions, the nine Census divisions, and for the four most populous States--California, Florida, New York, and Texas.

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Contacts: Stephanie J. Battles, Survey Manager (stephanie.battles@eia.doe.gov)

World Wide Web: http:/www.eia.doe.gov/emeu/consumption

Table CE3-1e. Electric Air-Conditioning Energy Expenditures in U.S. Households by Climate Zone, 2001

RSE Column Factor:	Total	Climate Zone[1]					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
	0.5	1.6	1.0	0.9	1.5	1.0	
	Million Households						
Total U.S. Households	107.0	9.2	28.6	24.0	21.0	24.1	8.1
No/Don't Use Air-Conditioning	26.2	4.0	8.1	4.2	7.6	2.3	11.3
Electric Air-Conditioning[2]	80.8	5.3	20.5	19.9	13.4	21.8	8.2
Central Air-Conditioning[3]	57.5	3.1	12.9	12.7	10.5	18.2	9.2
Room/Wall Air-Conditioning	23.3	2.2	7.6	7.2	2.9	3.6	11.3
	Billion Dollars[a]						
Electric Air-Conditioning Expenditures							
Total	15.94	0.45	2.19	2.85	2.68	7.78	9.7
Central Air-Conditioning	13.81	0.34	1.72	2.14	2.39	7.22	10.2
Room/Wall Air-Conditioning	2.13	0.12	0.47	0.70	0.29	0.56	13.4
	Dollars per Household[4,a]						
Electric Air-Conditioning Expenditures per Household							
Electric Air-Conditioning	197	86	107	143	200	357	4.7
Central Air-Conditioning	240	108	133	168	228	397	4.4
Room/Wall Air-Conditioning	91	54	62	98	100	156	7.2
	2001 Cooling Degree-Days (CDD) per Household[4]						
2001 Cooling Degree-Days per Household							
Total U.S. Households	1,407	665	777	1,147	1,236	2,852	3.8
No/Don't Use Air-Conditioning	883	603	639	860	738	2,752	8.2
Electric Air-Conditioning	1,578	712	832	1,207	1,520	2,863	3.0
Central Air-Conditioning	1,701	732	848	1,221	1,561	2,887	3.2
Room/Wall Air-Conditioning	1,274	681	804	1,181	1,368	2,742	3.4
	Cooled Square Footage (CSF) per Household[4]						
Cooled Square Footage per Household							
Electric Air-Conditioning	1,724	1,867	1,863	1,697	1,732	1,579	4.1
Central Air-Conditioning	2,032	2,405	2,336	2,101	1,989	1,729	4.1
Room/Wall Air-Conditioning	967	1,090	1,058	981	790	811	6.2

See footnotes at end of table.

Table CE3-1e. Electric Air-Conditioning Energy Expenditures in U.S. Households by Climate Zone, 2001 (Continued)

RSE Column Factor:	Total	Climate Zone[1]					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
	0.5	1.6	1.0	0.9	1.5	1.0	
	Air-Conditioning Intensity[4,a] [Cents÷{CDD×(CSF÷1000)}]						
Air-Conditioning Intensity							
Electric Air-Conditioning	7.26	6.48	6.89	6.99	7.61	7.90	3.2
Central Air-Conditioning	6.96	6.13	6.73	6.57	7.33	7.94	3.3
Room/Wall Air-Conditioning	7.42	7.33	7.25	8.48	9.23	7.04	6.5

[1] One of five climatically distinct areas, determined according to the 30-year average (1961-1990) of the annual heating and cooling degree-days. For this report, the heating or cooling degree-days are a measure of how cold or how hot a location is over a period of one year, relative to a base temperature of 65 degrees Fahrenheit. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station.

[2] The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (2.1 million).

[3] The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

[4] Averages are for those households using any electric air-conditioning, central air-conditioning, or room/wall air-conditioning, as applicable.

[a] The row factor in this section is underestimated because it contains no error for estimating the end-use.

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. • 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-G of the 2001 Residential Energy Consumption Survey.

Table CE3-2e. Electric Air-Conditioning Energy Expenditures in U.S. Households by Year of Construction, 2001

	Total	Year of Construction						RSE Row Factors
		1990 to 2001[1]	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.9	1.1	1.1	1.1	1.0	0.8	
	Million Households							
Total U.S. Households	107.0	15.5	18.2	18.8	13.8	14.2	26.6	4.2
No/Don't Use Air-Conditioning	26.2	2.1	2.5	4.6	3.6	4.0	9.5	8.7
Electric Air-Conditioning[2]	80.8	13.4	15.8	14.2	10.1	10.2	17.1	4.7
Central Air-Conditioning[3]	57.5	12.6	13.7	11.0	7.1	6.6	6.4	5.9
Room/Wall Air-Conditioning	23.3	0.8	2.1	3.1	3.1	3.5	10.8	8.7
	Billion Dollars[a]							
Electric Air-Conditioning Expenditures								
Total	15.94	3.33	3.56	3.17	1.84	1.75	2.30	7.2
Central Air-Conditioning	13.81	3.26	3.41	2.94	1.52	1.38	1.30	8.3
Room/Wall Air-Conditioning	2.13	0.07	0.15	0.23	0.31	0.37	1.00	11.6
	Dollars per Household[4,a]							
Electric Air-Conditioning Expenditures per Household								
Electric Air-Conditioning	197	249	225	224	181	172	134	5.4
Central Air-Conditioning	240	259	248	266	215	208	204	5.9
Room/Wall Air-Conditioning	91	84	73	74	103	105	93	8.0
	2001 Cooling Degree-Days (CDD) per Household[4]							
2001 Cooling Degree-Days per Household								
Total U.S. Households	1,407	1,455	1,648	1,586	1,376	1,352	1,135	3.4
No/Don't Use Air-Conditioning	883	583	1,032	841	932	971	874	8.2
Electric Air-Conditioning	1,578	1,590	1,744	1,826	1,536	1,502	1,279	3.5
Central Air-Conditioning	1,701	1,608	1,838	1,957	1,606	1,544	1,412	4.1
Room/Wall Air-Conditioning	1,274	1,299	1,114	1,367	1,373	1,422	1,200	6.2
	Cooled Square Footage (CSF) per Household[4]							
Cooled Square Footage per Household								
Electric Air-Conditioning	1,724	2,297	1,785	1,562	1,616	1,667	1,454	3.7
Central Air-Conditioning	2,032	2,376	1,937	1,804	1,912	2,012	2,106	3.8
Room/Wall Air-Conditioning	967	1,005	773	714	929	1,013	1,070	6.6

See footnotes at end of table.

Table CE3-2e. Electric Air-Conditioning Energy Expenditures in U.S. Households by Year of Construction, 2001 (Continued)

	Total	Year of Construction						RSE Row Factors
		1990 to 2001[1]	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.9	1.1	1.1	1.1	1.0	0.8	
	Air-Conditioning Intensity[4,a] [Cents÷{CDD×(CSF÷1000)}]							
Air-Conditioning Intensity								
Electric Air-Conditioning	7.26	6.81	7.24	7.84	7.30	6.88	7.22	3.5
Central Air-Conditioning	6.96	6.77	6.97	7.55	6.99	6.69	6.87	3.6
Room/Wall Air-Conditioning	7.42	6.47	8.48	7.53	8.08	7.27	7.25	7.7

[1] New construction for 2001 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

[2] The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (2.1 million).

[3] The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

[4] Averages are for those households using any electric air-conditioning, central air-conditioning, or room/wall air-conditioning, as applicable.

[a] The row factor in this section is underestimated because it contains no error for estimating the end-use.

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. • 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-G of the 2001 Residential Energy Consumption Survey.

Table CE3-3e. Electric Air-Conditioning Energy Expenditures in U.S. Households by Household Income, 2001

	Total	2001 Household Income				Below Poverty Line	Eligible for Federal Assistance[1]	RSE Row Factors
		Less than $10,000	$10,000 to $29,999	$30,000 to $49,999	$50,000 or More			
RSE Column Factor:	0.6	1.7	1.0	1.0	0.8	1.4	0.9	
	Million Households							
Total U.S. Households	107.0	11.0	30.6	27.1	38.3	15.0	33.8	3.3
No/Don't Use Air-Conditioning	26.2	4.2	8.8	6.1	7.1	5.9	11.3	6.9
Electric Air-Conditioning[2]	80.8	6.9	21.7	21.0	31.2	9.1	22.6	3.9
Central Air-Conditioning[3]	57.5	3.2	13.7	15.2	25.3	4.5	12.4	5.5
Room/Wall Air-Conditioning	23.3	3.7	8.0	5.8	5.9	4.7	10.1	5.9
	Billion Dollars[a]							
Electric Air-Conditioning Expenditures								
Total	15.94	0.88	3.22	3.82	8.02	1.32	3.31	5.9
Central Air-Conditioning	13.81	0.56	2.53	3.33	7.40	0.88	2.41	7.0
Room/Wall Air-Conditioning	2.13	0.33	0.69	0.49	0.62	0.44	0.91	8.0
	Dollars per Household[4,a]							
Electric Air-Conditioning Expenditures per Household								
Electric Air-Conditioning	197	129	148	182	257	145	147	4.1
Central Air-Conditioning	240	175	184	219	292	197	194	4.6
Room/Wall Air-Conditioning	91	89	86	86	106	95	90	5.9
	2001 Cooling Degree-Days (CDD) per Household[4]							
2001 Cooling Degree-Days per Household								
Total U.S. Households	1,407	1,423	1,444	1,396	1,381	1,435	1,372	3.1
No/Don't Use Air-Conditioning	883	974	994	896	682	1,029	972	5.2
Electric Air-Conditioning	1,578	1,696	1,627	1,542	1,541	1,696	1,572	3.1
Central Air-Conditioning	1,701	1,920	1,779	1,687	1,638	1,915	1,741	3.6
Room/Wall Air-Conditioning	1,274	1,502	1,366	1,157	1,121	1,486	1,365	4.4
	Cooled Square Footage (CSF) per Household[4]							
Cooled Square Footage per Household								
Electric Air-Conditioning	1,724	967	1,203	1,585	2,349	1,017	1,164	2.9
Central Air-Conditioning	2,032	1,289	1,404	1,778	2,618	1,317	1,448	3.4
Room/Wall Air-Conditioning	967	689	857	1,074	1,185	730	813	4.8

See footnotes at end of table.

Table CE3-3e. Electric Air-Conditioning Energy Expenditures in U.S. Households by Household Income, 2001 (Continued)

	Total	2001 Household Income				Below Poverty Line	Eligible for Federal Assistance[1]	RSE Row Factors
		Less than $10,000	$10,000 to $29,999	$30,000 to $49,999	$50,000 or More			
RSE Column Factor:	0.6	1.7	1.0	1.0	0.8	1.4	0.9	
	Air-Conditioning Intensity[4,a] [Cents÷{CDD×(CSF÷1000)}]							
Air-Conditioning Intensity								
Electric Air-Conditioning	7.26	7.84	7.56	7.45	7.11	8.39	8.03	2.9
Central Air-Conditioning	6.96	7.06	7.37	7.28	6.81	7.81	7.68	3.2
Room/Wall Air-Conditioning	7.42	8.59	7.34	6.88	8.01	8.74	8.07	6.4

[1] Below 150 percent of poverty line or 60 percent of median State income.
[2] The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (2.1 million).
[3] The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.
[4] Averages are for those households using any electric air-conditioning, central air-conditioning, or room/wall air-conditioning, as applicable.
[a] The row factor in this section is underestimated because it contains no error for estimating the end-use.

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. • 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-G of the 2001 Residential Energy Consumption Survey.

Table CE3-4e. Electric Air-Conditioning Energy Expenditures in U.S. Households by Type of Housing Unit, 2001

	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Apartments in Buildings With		Mobile Homes	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.5	1.5	1.4	1.8	
	Million Households					
Total U.S. Households	107.0	73.7	9.5	17.0	6.8	4.4
No/Don't Use Air-Conditioning	26.2	16.1	3.2	5.2	1.7	8.4
Electric Air-Conditioning[1]	80.8	57.6	6.3	11.8	5.1	4.9
Central Air-Conditioning[2]	57.5	43.6	3.2	7.1	3.5	6.7
Room/Wall Air-Conditioning	23.3	13.9	3.1	4.7	1.6	7.7
	Billion Dollars[a]					
Electric Air-Conditioning Expenditures						
Total	15.94	12.70	0.85	1.51	0.88	8.0
Central Air-Conditioning	13.81	11.29	0.59	1.20	0.72	9.2
Room/Wall Air-Conditioning	2.13	1.41	0.26	0.30	0.16	10.5
	Dollars per Household[3,a]					
Electric Air-Conditioning Expenditures per Household						
Electric Air-Conditioning	197	221	135	128	171	5.7
Central Air-Conditioning	240	259	185	169	205	6.2
Room/Wall Air-Conditioning	91	101	84	65	98	6.6
	2001 Cooling Degree-Days (CDD) per Household[3]					
2001 Cooling Degree-Days per Household						
Total U.S. Households	1,407	1,421	1,282	1,389	1,485	4.2
No/Don't Use Air-Conditioning	883	919	825	751	1,059	7.4
Electric Air-Conditioning	1,578	1,561	1,511	1,673	1,623	4.3
Central Air-Conditioning	1,701	1,646	1,952	1,957	1,627	5.0
Room/Wall Air-Conditioning	1,274	1,295	1,058	1,240	1,613	5.4
	Cooled Square Footage (CSF) per Household[3]					
Cooled Square Footage per Household						
Electric Air-Conditioning	1,724	2,061	1,029	787	958	3.3
Central Air-Conditioning	2,032	2,348	1,181	924	1,128	3.4
Room/Wall Air-Conditioning	967	1,161	874	578	591	4.6

See footnotes at end of table.

Table CE3-4e. Electric Air-Conditioning Energy Expenditures in U.S. Households by Type of Housing Unit, 2001 (Continued)

		Type of Housing Unit				
			Apartments in Buildings With			
	Total	Single-Family	Two to Four Units	Five or More Units	Mobile Homes	RSE Row Factors
RSE Column Factor:	0.5	0.5	1.5	1.4	1.8	
	Air-Conditioning Intensity[3,a] [Cents÷{CDD×(CSF÷1000)}]					
Air-Conditioning Intensity						
Electric Air-Conditioning	7.26	6.86	8.70	9.73	11.02	3.2
Central Air-Conditioning	6.96	6.70	8.02	9.37	11.19	3.2
Room/Wall Air-Conditioning	7.42	6.73	9.13	9.07	10.25	6.8

[1] The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (2.1 million).
[2] The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.
[3] Averages are for those households using any electric air-conditioning, central air-conditioning, or room/wall air-conditioning, as applicable.
[a] The row factor in this section is underestimated because it contains no error for estimating the end-use.
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. • 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-G of the 2001 Residential Energy Consumption Survey.

Table CE3-7e. Electric Air-Conditioning Energy Expenditures in U.S. Households by Four Most Populated States, 2001

	Total U.S.	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	0.9	1.5	1.5	1.3	
	Million Households					
Total U.S. Households	107.0	7.1	12.3	12.3	6.3	NE
No/Don't Use Air-Conditioning	26.2	2.4	7.2	7.2	Q	6.3
Electric Air-Conditioning[1]	80.8	4.7	5.2	5.2	6.1	3.7
Central Air-Conditioning[2]	57.5	1.3	3.9	3.9	5.7	8.1
Room/Wall Air-Conditioning	23.3	3.4	1.2	1.2	0.3	13.5
	Billion Dollars[a]					
Electric Air-Conditioning Expenditures						
Total	15.94	0.51	0.64	0.64	2.64	9.1
Central Air-Conditioning	13.81	0.17	0.59	0.59	2.59	11.2
Room/Wall Air-Conditioning	2.13	0.34	0.05	0.05	0.05	17.4
	Dollars per Household[3,a]					
Electric Air-Conditioning Expenditures per Household						
Electric Air-Conditioning	197	109	125	125	436	6.7
Central Air-Conditioning	240	134	150	150	454	8.8
Room/Wall Air-Conditioning	91	100	41	41	146	11.5
	2001 Cooling Degree-Days (CDD) per Household[3]					
2001 Cooling Degree-Days per Household						
Total U.S. Households	1,407	988	860	860	3,452	5.0
No/Don't Use Air-Conditioning	883	946	627	627	Q	4.9
Electric Air-Conditioning	1,578	1,009	1,183	1,183	3,434	5.0
Central Air-Conditioning	1,701	749	1,276	1,276	3,398	7.2
Room/Wall Air-Conditioning	1,274	1,106	881	881	4,022	8.4
	Cooled Square Footage (CSF) per Household[3]					
Cooled Square Footage per Household						
Electric Air-Conditioning	1,724	1,149	1,374	1,374	1,682	6.7
Central Air-Conditioning	2,032	1,852	1,640	1,640	1,732	9.0
Room/Wall Air-Conditioning	967	886	512	512	Q	6.5

See footnotes at end of table.

Table CE3-7e. Electric Air-Conditioning Energy Expenditures in U.S. Households by Four Most Populated States, 2001 (Continued)

	Total U.S.	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	0.9	1.5	1.5	1.3	
	Air-Conditioning Intensity[3,a] [Cents÷{CDD×(CSF÷1000)}]					
Air-Conditioning Intensity						
Electric Air-Conditioning	7.26	9.39	7.67	7.67	7.55	4.7
Central Air-Conditioning	6.96	9.64	7.19	7.19	7.71	6.0
Room/Wall Air-Conditioning	7.42	10.17	9.05	9.05	4.12	7.7

[1] The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (2.1 million).
[2] The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.
[3] Averages are for those households using any electric air-conditioning, central air-conditioning, or room/wall air-conditioning, as applicable.
[a] The row factor in this section is underestimated because it contains no error for estimating the end-use.
NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.
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. • 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-G of the 2001 Residential Energy Consumption Survey.

Table CE3-8e. Electric Air-Conditioning Energy Expenditures in U.S. Households by Urban/Rural Location, 2001

		Urban/Rural Location[1]				
	Total	City	Town	Suburbs	Rural	RSE Row Factors
RSE Column Factor:	0.6	0.8	1.3	1.2	1.3	
	Million Households					
Total U.S. Households	107.0	49.9	18.0	21.2	17.9	4.2
No/Don't Use Air-Conditioning	26.2	14.3	4.6	2.7	4.6	7.8
Electric Air-Conditioning[2]	80.8	35.6	13.4	18.6	13.3	4.3
Central Air-Conditioning[3]	57.5	23.6	8.6	15.8	9.4	5.1
Room/Wall Air-Conditioning	23.3	12.0	4.8	2.7	3.9	7.4
	Billion Dollars[a]					
Electric Air-Conditioning Expenditures						
Total	15.94	6.83	2.15	4.53	2.44	6.1
Central Air-Conditioning	13.81	5.71	1.72	4.29	2.09	6.5
Room/Wall Air-Conditioning	2.13	1.12	0.43	0.24	0.35	9.1
	Dollars per Household[4,a]					
Electric Air-Conditioning Expenditures per Household						
Electric Air-Conditioning	197	192	160	244	184	4.2
Central Air-Conditioning	240	242	199	271	223	4.3
Room/Wall Air-Conditioning	91	94	90	88	89	6.1
	2001 Cooling Degree-Days (CDD) per Household[4]					
2001 Cooling Degree-Days per Household						
Total U.S. Households	1,407	1,482	1,234	1,489	1,277	3.2
No/Don't Use Air-Conditioning	883	908	852	800	885	6.9
Electric Air-Conditioning	1,578	1,713	1,366	1,588	1,413	3.3
Central Air-Conditioning	1,701	1,890	1,494	1,648	1,504	3.6
Room/Wall Air-Conditioning	1,274	1,364	1,134	1,240	1,195	4.8
	Cooled Square Footage (CSF) per Household[4]					
Cooled Square Footage per Household						
Electric Air-Conditioning	1,724	1,480	1,671	2,144	1,847	3.3
Central Air-Conditioning	2,032	1,771	2,027	2,335	2,182	3.5
Room/Wall Air-Conditioning	967	905	1,026	1,027	1,043	5.5

See footnotes at end of table.

Table CE3-8e. Electric Air-Conditioning Energy Expenditures in U.S. Households by Urban/Rural Location, 2001 (Continued)

	Total	Urban/Rural Location[1]				RSE Row Factors
		City	Town	Suburbs	Rural	
RSE Column Factor:	0.6	0.8	1.3	1.2	1.3	
	Air-Conditioning Intensity[4,a] [Cents÷{CDD×(CSF÷1000)}]					
Air-Conditioning Intensity						
Electric Air-Conditioning	7.26	7.57	7.02	7.17	7.05	2.6
Central Air-Conditioning	6.96	7.22	6.57	7.04	6.81	2.6
Room/Wall Air-Conditioning	7.42	7.58	7.75	6.87	7.17	6.0

[1] Based on the household respondent's description rather than the Federal Government definition.
[2] The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (2.1 million).
[3] The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.
[4] Averages are for those households using any electric air-conditioning, central air-conditioning, or room/wall air-conditioning, as applicable.
[a] The row factor in this section is underestimated because it contains no error for estimating the end-use.
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. • 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-G of the 2001 Residential Energy Consumption Survey.

Table CE3-9e. Electric Air-Conditioning Energy Expenditures in U.S. Households by Northeast Census Region, 2001

	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.6	0.9	1.1	1.7	
	Million Households				
Total U.S. Households	107.0	20.3	14.8	5.4	NE
No/Don't Use Air-Conditioning	26.2	6.0	3.8	2.3	8.0
Electric Air-Conditioning[1]	80.8	14.2	11.1	3.2	3.4
Central Air-Conditioning[2]	57.5	5.7	4.9	0.8	8.9
Room/Wall Air-Conditioning	23.3	8.5	6.1	2.4	5.6
	Billion Dollars[a]				
Electric Air-Conditioning Expenditures					
Total	15.94	1.58	1.29	0.29	7.1
Central Air-Conditioning	13.81	0.87	0.73	0.13	11.4
Room/Wall Air-Conditioning	2.13	0.71	0.56	0.15	6.6
	Dollars per Household[3,a]				
Electric Air-Conditioning Expenditures per Household					
Electric Air-Conditioning	197	111	117	92	5.6
Central Air-Conditioning	240	153	149	176	6.2
Room/Wall Air-Conditioning	91	84	91	65	4.1
	2001 Cooling Degree-Days (CDD) per Household[3]				
2001 Cooling Degree-Days per Household					
Total U.S. Households	1,407	888	947	726	2.4
No/Don't Use Air-Conditioning	883	820	916	659	5.0
Electric Air-Conditioning	1,578	917	958	773	1.7
Central Air-Conditioning	1,701	835	842	789	2.8
Room/Wall Air-Conditioning	1,274	971	1,050	768	2.2
	Cooled Square Footage (CSF) per Household[3]				
Cooled Square Footage per Household					
Electric Air-Conditioning	1,724	1,505	1,497	1,533	5.5
Central Air-Conditioning	2,032	2,306	2,207	2,944	6.2
Room/Wall Air-Conditioning	967	971	928	1,081	3.9

See footnotes at end of table.

Table CE3-9e. Electric Air-Conditioning Energy Expenditures in U.S. Households by Northeast Census Region, 2001 (Continued)

	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.6	0.9	1.1	1.7	
	Air-Conditioning Intensity[3,a] [Cents÷{CDD×(CSF÷1000)}]				
Air-Conditioning Intensity					
Electric Air-Conditioning	7.26	8.06	8.15	7.74	3.1
Central Air-Conditioning	6.96	7.92	8.01	7.58	4.5
Room/Wall Air-Conditioning	7.42	8.88	9.35	7.80	4.1

[1] The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (2.1 million).
[2] The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.
[3] Averages are for those households using any electric air-conditioning, central air-conditioning, or room/wall air-conditioning, as applicable.
[a] The row factor in this section is underestimated because it contains no error for estimating the end-use.
NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.
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. • 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-G of the 2001 Residential Energy Consumption Survey.

Table CE3-10e. Electric Air-Conditioning Energy Expenditures in U.S. Households by Midwest Census Region, 2001

	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.6	0.9	1.1	1.6	
	Million Households				
Total U.S. Households	107.0	24.5	17.1	7.4	NE
No/Don't Use Air-Conditioning	26.2	4.3	3.7	0.7	10.9
Electric Air-Conditioning[1]	80.8	20.2	13.4	6.7	2.3
Central Air-Conditioning[2]	57.5	14.3	9.5	4.8	3.8
Room/Wall Air-Conditioning	23.3	5.8	3.9	1.9	7.1
	Billion Dollars[a]				
Electric Air-Conditioning Expenditures					
Total	15.94	2.49	1.58	0.91	5.1
Central Air-Conditioning	13.81	2.08	1.33	0.76	6.4
Room/Wall Air-Conditioning	2.13	0.41	0.25	0.16	9.1
	Dollars per Household[3,a]				
Electric Air-Conditioning Expenditures per Household					
Electric Air-Conditioning	197	123	117	135	4.6
Central Air-Conditioning	240	145	140	157	4.5
Room/Wall Air-Conditioning	91	70	64	82	6.5
	2001 Cooling Degree-Days (CDD) per Household[3]				
2001 Cooling Degree-Days per Household					
Total U.S. Households	1,407	921	856	1,071	3.5
No/Don't Use Air-Conditioning	883	792	781	851	3.7
Electric Air-Conditioning	1,578	949	877	1,093	3.7
Central Air-Conditioning	1,701	967	883	1,131	3.8
Room/Wall Air-Conditioning	1,274	906	861	997	4.4
	Cooled Square Footage (CSF) per Household[3]				
Cooled Square Footage per Household					
Electric Air-Conditioning	1,724	2,021	2,031	2,003	3.1
Central Air-Conditioning	2,032	2,378	2,438	2,261	3.1
Room/Wall Air-Conditioning	967	1,146	1,045	1,354	6.5

See footnotes at end of table.

Table CE3-10e. Electric Air-Conditioning Energy Expenditures in U.S. Households by Midwest Census Region, 2001 (Continued)

	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.6	0.9	1.1	1.6	
	Air-Conditioning Intensity[3,a] [Cents÷{CDD×(CSF÷1000)}]				
Air-Conditioning Intensity					
Electric Air-Conditioning	7.26	6.44	6.60	6.19	2.8
Central Air-Conditioning	6.96	6.32	6.49	6.13	2.8
Room/Wall Air-Conditioning	7.42	6.72	7.09	6.07	7.8

[1] The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (2.1 million).
[2] The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.
[3] Averages are for those households using any electric air-conditioning, central air-conditioning, or room/wall air-conditioning, as applicable.
[a] The row factor in this section is underestimated because it contains no error for estimating the end-use.
NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.
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. • 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-G of the 2001 Residential Energy Consumption Survey.

Table CE3-11e. Electric Air-Conditioning Energy Expenditures in U.S. Households by South Census Region, 2001

	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West south Central	
RSE Column Factor:	0.5	0.8	1.2	1.3	1.4	
	Million Households					
Total U.S. Households	107.0	38.9	20.3	6.8	11.8	NE
No/Don't Use Air-Conditioning	26.2	2.1	1.3	0.4	0.4	16.1
Electric Air-Conditioning[1]	80.8	36.9	19.0	6.4	11.5	1.6
Central Air-Conditioning[2]	57.5	30.4	16.1	5.0	9.2	2.8
Room/Wall Air-Conditioning	23.3	6.4	2.9	1.3	2.2	9.0
	Billion Dollars[a]					
Electric Air-Conditioning Expenditures						
Total	15.94	10.37	5.15	1.24	3.99	4.3
Central Air-Conditioning	13.81	9.49	4.82	1.07	3.60	4.7
Room/Wall Air-Conditioning	2.13	0.88	0.32	0.17	0.39	11.7
	Dollars per Household[3,a]					
Electric Air-Conditioning Expenditures per Household						
Electric Air-Conditioning	197	282	271	195	348	3.7
Central Air-Conditioning	240	312	299	213	389	3.9
Room/Wall Air-Conditioning	91	137	111	128	176	7.7
	2001 Cooling Degree-Days (CDD) per Household[3]					
2001 Cooling Degree-Days per Household						
Total U.S. Households	1,407	2,153	2,071	1,690	2,560	3.6
No/Don't Use Air-Conditioning	883	1,905	1,933	1,573	2,225	7.6
Electric Air-Conditioning	1,578	2,167	2,081	1,698	2,570	3.6
Central Air-Conditioning	1,701	2,192	2,135	1,679	2,570	3.6
Room/Wall Air-Conditioning	1,274	2,047	1,775	1,769	2,571	5.5
	Cooled Square Footage (CSF) per Household[3]					
Cooled Square Footage per Household						
Electric Air-Conditioning	1,724	1,732	1,737	1,891	1,636	4.5
Central Air-Conditioning	2,032	1,904	1,896	2,086	1,819	4.5
Room/Wall Air-Conditioning	967	923	852	1,162	872	7.5

See footnotes at end of table.

Table CE3-11e. Electric Air-Conditioning Energy Expenditures in U.S. Households by South Census Region, 2001 (Continued)

	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West south Central	
RSE Column Factor:	0.5	0.8	1.2	1.3	1.4	
	Air-Conditioning Intensity[3,a] [Cents÷{CDD×(CSF÷1000)}]					
Air-Conditioning Intensity						
Electric Air-Conditioning	7.26	7.50	7.48	6.07	8.28	2.6
Central Air-Conditioning	6.96	7.48	7.39	6.08	8.33	2.5
Room/Wall Air-Conditioning	7.42	7.25	7.37	6.22	7.86	8.0

[1] The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (2.1 million).
[2] The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.
[3] Averages are for those households using any electric air-conditioning, central air-conditioning, or room/wall air-conditioning, as applicable.
[a] The row factor in this section is underestimated because it contains no error for estimating the end-use.
NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.
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. • 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-G of the 2001 Residential Energy Consumption Survey.

Table CE3-12e. Electric Air-Conditioning Energy Expenditures in U.S. Households by West Census Region, 2001

	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.4	1.1	1.9	1.3	
	Million Households				
Total U.S. Households	107.0	23.3	6.7	16.6	NE
No/Don't Use Air-Conditioning	26.2	13.8	3.5	10.2	7.6
Electric Air-Conditioning[1]	80.8	9.6	3.2	6.3	7.2
Central Air-Conditioning[2]	57.5	7.1	2.6	4.5	8.5
Room/Wall Air-Conditioning	23.3	2.5	0.6	1.9	10.1
	Billion Dollars[a]				
Electric Air-Conditioning Expenditures					
Total	15.94	1.50	0.78	0.72	8.7
Central Air-Conditioning	13.81	1.37	0.75	0.62	8.8
Room/Wall Air-Conditioning	2.13	0.13	0.03	0.09	14.3
	Dollars per Household[3,a]				
Electric Air-Conditioning Expenditures per Household					
Electric Air-Conditioning	197	157	244	113	7.2
Central Air-Conditioning	240	195	291	139	7.9
Room/Wall Air-Conditioning	91	50	54	49	9.6
	2001 Cooling Degree-Days (CDD) per Household[3]				
2001 Cooling Degree-Days per Household					
Total U.S. Households	1,407	1,125	1,917	804	6.2
No/Don't Use Air-Conditioning	883	784	1,361	586	6.5
Electric Air-Conditioning	1,578	1,615	2,527	1,155	7.7
Central Air-Conditioning	1,701	1,771	2,821	1,170	8.1
Room/Wall Air-Conditioning	1,274	1,176	1,342	1,119	9.8
	Cooled Square Footage (CSF) per Household[3]				
Cooled Square Footage per Household					
Electric Air-Conditioning	1,724	1,394	1,383	1,399	5.7
Central Air-Conditioning	2,032	1,660	1,568	1,713	6.4
Room/Wall Air-Conditioning	967	643	640	644	6.7

See footnotes at end of table.

Table CE3-12e. Electric Air-Conditioning Energy Expenditures in U.S. Households by West Census Region, 2001 (Continued)

	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.4	1.1	1.9	1.3	
	Air-Conditioning Intensity[3,a] [Cents÷{CDD×(CSF÷1000)}]				
Air-Conditioning Intensity					
Electric Air-Conditioning	7.26	6.97	6.98	6.98	4.0
Central Air-Conditioning	6.96	6.62	6.58	6.95	4.2
Room/Wall Air-Conditioning	7.42	6.67	6.27	6.84	10.0

[1] The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (2.1 million).
[2] The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.
[3] Averages are for those households using any electric air-conditioning, central air-conditioning, or room/wall air-conditioning, as applicable.
[a] The row factor in this section is underestimated because it contains no error for estimating the end-use.
NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.
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. • 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-G of the 2001 Residential Energy Consumption Survey.