Residential Energy Consumption Surveys

1997 Consumption and Expenditures Tables

Appliances Expenditures Tables

(10 pages, 40 kb)

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These data are from the 1997 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 data for occupied primary housing units. RECS was first conducted in 1978; the sixth and most recent survey was conducted in 1997 RECS. The data were collected from a sample of 5,900 housing units statistically selected to represent the 101.5 million units in the United States. The 1997 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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World Wide Web: http://www.eia.doe.gov/emeu/consumption

Table CE5-1e. Appliances¹ Energy Expenditures in U.S. Households by Climate Zone, 1997

							1
				Climate Zone ²			
			Fewer than 2,	000 CDD and		2,000 CDD	
	Total	More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD	or More and Fewer than 4,000 HDD	
RSE Column Factor:	0.4	1.8	1.0	1.1	1.2	1.2	RSE Row Factors
			N	Million Househole	ds		
Total U.S. Households	101.5	9.3	28.0	22.5	19.5	22.2	7.8
Number of Households With Appliances, Fuels Used (more than one may apply): Electricity for:							
Refrigerators		9.2	28.0	22.5	19.5	22.1	7.9
Other Appliances and Lighting		9.2	28.0	22.5	19.5	22.2	7.8
Natural GasLPG		2.5 0.9	13.2 1.1	8.9 1.0	8.4 0.8	7.3 0.9	8.6 24.1
				Billion Dollars			
Appliances Expenditures, Fuels Used:							
Electricity for:							
Refrigerators		0.85	3.14	2.66	2.34	3.14	6.7
Other Appliances and Lighting Natural Gas		4.20 0.13	13.62 0.86	10.83 0.74	8.60 0.55	11.18 0.58	7.1 10.9
LPG		0.13	0.09	0.07	0.07	0.07	25.3
Total	63.80	5.25	17.71	14.30	11.56	14.98	6.9
			Do	llars per Househ	old ³		
Appliances Expenditures per Household, Fuels Used: Electricity for:							
Refrigerators		92	112	118	121	142	2.9
Other Appliances and Lighting		455	486	481	441	504	2.7
Natural GasLPG		51 71	65 78	83 72	66 81	80 74	5.8 11.4
Total		567	78 632	72 636	593	74 675	2.7
1000	020	307	002	000	333	07.5	2.1

Includes energy expenditures for refrigeration and lighting.
 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.

3 Averages are for those households using each of the fuels for appliances.

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 1997 Residential Energy Consumption Survey.

Table CE5-2e. Appliances¹ Energy Expenditures in U.S. Households by Year of Construction, 1997

		,	<u>-</u>					
		Year of Construction						
	Total	1990 to 1997 ²	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.4	1.8	1.4	1.0	1.0	1.1	0.8	RSE Row Factors
				Million Hou	seholds		1	
Total U.S. Households	101.5	9.7	17.3	19.6	14.4	12.5	27.9	4.1
Number of Households With Appliances, Fuels Used (more than one may apply): Electricity for:								
Refrigerators	101.3	9.7	17.3	19.5	14.4	12.5	27.8	4.1
Other Appliances and Lighting	101.4	9.7	17.3	19.6	14.4	12.5	27.9	4.1
Natural Gas	40.4	2.9	4.4	5.2	5.3	6.5	16.1	7.5
LPG	4.8	0.5	8.0	0.9	0.8	0.2	1.6	17.1
				Billion De	ollars			
Appliances Expenditures, Fuels Used: Electricity for:								
Refrigerators	12.14	1.07	2.08	2.31	1.79	1.62	3.27	4.6
Other Appliances and Lighting	48.44	5.05	8.59	9.48	6.66	5.99	12.67	4.4
Natural GasLPG	2.86 0.36	0.27 0.05	0.36 0.06	0.34 0.07	0.35 0.05	0.44 0.01	1.11 0.12	10.6 21.4
Total	63.80	6.44	11.09	12.19	8.85	8.05	17.17	4.4
			Γ	Dollars per Ho	ousehold ³			
Appliances Expenditures per Household, Fuels Used:								
Electricity for: Refrigerators	120	111	121	118	124	129	117	2.6
Other Appliances and Lighting	477	521	496	485	461	477	454	2.5
Natural Gas	71	92	82	65	65	68	69	6.4
LPG	75	98	73	71	68	49	79	13.2
Total	629	664	641	623	613	642	615	2.4

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1997 Residential Energy Consumption Survey.

Includes energy expenditures for refrigeration and lighting.
 New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were

conducted.

3 Averages are for those households using each of the fuels for appliances.

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.

Table CE5-3e. Appliances¹ Energy Expenditures in U.S. Households by Household Income, 1997

	1997 Household Income				Eli- gible			
	Total	Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More	Below Poverty Line	for Fed- eral Assist- ance ²	
RSE Column Factor:	0.6	1.5	1.0	0.9	1.0	1.3	1.0	RSE Row Factors
				Million H	ouseholds	1		
Total U.S. Households	101.5	13.3	29.1	31.1	27.9	14.6	34.1	2.7
Number of Households With Appliances, Fuels Used (more than one may apply): Electricity for:								
Refrigerators	101.3	13.2	29.1	31.1	27.9	14.6	34.0	2.7
Other Appliances and Lighting	101.4 40.4	13.3	29.1 11.3	31.1 11.7	27.9 11.7	14.6 6.8	34.0 14.7	2.7 4.8
LPG	4.8	5.8 0.7	1.6	1.4	1.1	0.8	1.9	14.7
				Billion	Dollars			
Appliances Expenditures, Fuels Used:								
Electricity for:								
Refrigerators	12.14	1.36	3.15	3.55	4.07	1.52	3.61	3.2
Other Appliances and Lighting Natural Gas	48.44 2.86	4.12 0.41	11.36 0.62	14.92 0.88	18.04 0.95	5.42 0.52	13.02 1.01	3.2 6.8
LPG	0.36	0.05	0.11	0.09	0.11	0.05	0.14	18.1
Total	63.80	5.94	15.25	19.44	23.17	7.51	17.78	3.1
				Dollars per	Household	J 3		
Appliances Expenditures per Household, Fuels Used: Electricity for:								
Refrigerators	120	103	108	114	146	104	106	2.0
Other Appliances and Lighting	477	310	390	479	646	370	382	2.0
Natural Gas	71	71	55	75	81	76	69	4.6
LPG Total	75 629	65 446	70 523	67 624	100 830	60 512	77 522	11.0
l Otal	023	440	525	024	030	J12	322	1.9

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1997 Residential Energy Consumption Survey.

¹ Includes energy expenditures for refrigeration and lighting.
2 Below 150 percent of poverty line or 60 percent of median State income.

³ Averages are for those households using each of the fuels for appliances.

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.

Table CE5-4e. Appliances¹ Energy Expenditures in U.S. Households by Type of Housing Unit, 1997

			Type of Ho	ousing Unit				
			Multi	family				
	Total	Single-Family	Two to Four Units	Five or More Units	Mobile Home			
RSE Column Factor:	0.5	0.5	1.9	1.2	1.6	RSE Row Factors		
			Million House	nolds				
Total U.S. Households	101.5	73.7	5.6	15.8	6.3	4.0		
Number of Households With Appliances, Fuels Used (more than one may apply): Electricity for:								
Refrigerators	101.3	73.7	5.6	15.7	6.3	4.0		
Other Appliances and Lighting	101.4	73.7	5.6	15.8	6.3	4.0		
Natural Gas	40.4	30.4	2.7	5.4	1.8	6.9		
LPG	4.8	3.4	Q	Q	1.3	16.2		
_	Billion Dollars							
Appliances Expenditures, Fuels Used: Electricity for:								
Refrigerators	12.14	9.55	0.57	1.43	0.59	4.2		
Other Appliances and Lighting	48.44	39.93	1.79	4.17	2.54	4.0		
Natural Gas	2.86	2.25	0.15	0.37	0.09	8.8		
LPG	0.36 63.80	0.26 51.98	Q 2.52	Q 5.97	0.10 3.32	19.4 3.9		
-			Dollars per Hous	sehold ²				
-			Donaro por riodo	, on our				
Appliances Expenditures per Household, Fuels Used: Electricity for:								
Refrigerators	120	130	102	91	93	2.5		
Other Appliances and Lighting	477	542	319	264	402	2.3		
Natural Gas	71	74	56	68	47	5.1		
LPG	75	75	Q	Q	76	8.7		
Total	629	705	449	378	525	2.1		

Includes energy expenditures for refrigeration and lighting.
 Averages are for those households using each of the fuels for appliances.
 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 1997 Residential Energy Consumption Survey.

Table CE5-7e. Appliances¹ Energy Expenditures in U.S. Households by Four Most Populated States, 1997

			Four Most Pop	oulated States		
	Total U.S.	New York	California	Texas	Florida	
RSE Column Factor:	0.4	0.9	1.0	1.7	1.7	RSE Row Factors
		1	Million Househ	olds		
Total U.S. Households	101.5	6.8	11.5	7.0	5.9	NF
Number of Households With Appliances, Fuels Used (more than one may apply): Electricity for:						
Refrigerators	101.3	6.8	11.4	7.0	5.9	NF
Other Appliances and Lighting		6.8	11.5	7.0	5.9	NF
Natural Gas		4.2	7.3	3.1	0.6	7.1
LPG		0.5	0.3	0.3	0.3	23.2
			Billion Dolla	rs		
Appliances Expenditures, Fuels Used:						
Electricity for:						
Refrigerators	12.14	1.00	1.54	1.01	0.84	3.5
Other Appliances and Lighting	48.44	3.85	5.04	3.61	3.06	4.1
Natural Gas		0.44	0.48	0.23	Q	8.3
LPG		0.04	0.02	0.02	0.02	30.4
Total	63.80	5.33	7.08	4.88	4.05	3.9
			Dollars per Hous	ehold ²		
Appliances Expenditures per Household, Fuels Used:						
Electricity for: Refrigerators	120	147	134	146	141	3.5
Other Appliances and Lighting		564	440	518	516	4.1
Natural Gas		104	66	75	201	8.1
LPG		78	60	73 73	85	13.7
Total		76 781	616	73 700	683	3.9
1000	023	701	010	700	000	3.9

Includes energy expenditures for refrigeration and lighting.
 Averages are for those households using each of the fuels for appliances.
 NF = No applicable RSE row factor.

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 1997 Residential Energy Consumption Survey.

Table CE5-8e. Appliances¹ Energy Expenditures in U.S. Households by Urban/Rural Location, 1997

		,					
	Urban/Rural Location ²						
	Total	City	Town	Suburbs	Rural		
RSE Column Factor:	0.5	0.8	1.4	1.4	1.3	RSE Row Factors	
			Million House	nolds			
Total U.S. Households	101.5	48.2	18.2	18.6	16.5	4.0	
Number of Households With Appliances, Fuels Used (more than one may apply): Electricity for:							
Refrigerators	101.3	48.1	18.2	18.6	16.4	4.0	
Other Appliances and Lighting		48.2	18.2	18.6	16.4	4.0	
Natural Gas	40.4	23.9	6.1	8.0	2.4	6.4	
LPG	4.8	0.5	0.8	0.3	3.2	16.8	
			Billion Dolla	ars			
Appliances Expenditures, Fuels Used: Electricity for:							
Refrigerators	12.14	5.61	2.05	2.54	1.94	4.0	
Other Appliances and Lighting		20.08	8.54	10.52	9.30	3.8	
Natural Gas		1.61	0.39	0.68	0.18	9.2	
LPG Total		0.04 27.34	0.06 11.05	0.03 13.76	0.23 11.65	20.8	
Total	00.00	27.04	Dollars per Hous		11.00	0.0	
			Dollars per Hous	Sellolus			
Appliances Expenditures per Household, Fuels Used:							
Electricity for:	400	447	440	407	440		
Refrigerators		117 416	113 469	137 566	118 566	2.2	
Other Appliances and Lighting Natural Gas		416 67	469 64	566 85	566 74	5.5	
LPG		81	70	104	73	12.3	
Total		567	607	741	708	2.0	

Includes energy expenditures for refrigeration and lighting.
 Based on the household respondent's description rather than the Federal Government definition.
 Averages are for those households using each of the fuels for appliances.
 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 1997 Residential Energy Consumption Survey.

Table CE5-9e. Appliances¹ Energy Expenditures in U.S. Households by Northeast Census Region, 1997

			Northeast Census Region	on				
			Census	Division				
	Total U.S.	Total	Middle Atlantic	New England				
RSE Column Factor:	0.6	0.9	1.1	1.8	RSE Row Factors			
		Mill	ion Households					
Total U.S. Households	101.5	19.7	14.4	5.3	NF			
Number of Households With Appliances, Fuels Used (more than one may apply): Electricity for:								
Refrigerators	101.3	19.7	14.4	5.3	NF			
Other Appliances and Lighting	101.4	19.7	14.4	5.3	NF			
Natural GasLPG	40.4 4.8	9.6 1.2	8.1 0.7	1.5 0.5	7.7 18.8			
_	Billion Dollars							
_								
Appliances Expenditures, Fuels Used: Electricity for:								
Refrigerators Other Appliances and Lighting	12.14 48.44	2.62 10.57	1.96 7.74	0.66 2.83	2.5 2.4			
Natural Gas	2.86	0.86	0.73	0.12	9.0			
LPG	0.36	0.10	0.05	0.05	17.2			
Total	63.80	14.15	10.49	3.66	2.2			
_		Dollar	rs per Household ²					
Appliances Expenditures per Household, Fuels Used:								
Electricity for:								
Refrigerators	120	133	136	124	2.5			
Other Appliances and Lighting Natural Gas	477 71	536 89	537 90	533 85	2.4 2.8			
LPG	7 1 75	87	74	107	8.8			
Total	629	717	727	690	2.2			

Includes energy expenditures for refrigeration and lighting.
 Averages are for those households using each of the fuels for appliances.
 NF = No applicable RSE row factor.
 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 1997 Residential Energy Consumption

Table CE5-10e. Appliances¹ Energy Expenditures in U.S. Households by Midwest Census Region, 1997

			Midwest Census Regio	on	
			Census Division		
	Total U.S.	Total	East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.6	RSE Row Factors
		N	Million Households		
Total U.S. Households	101.5	24.1	16.9	7.2	NF
Number of Households With Appliances, Fuels Used (more than one may apply): Electricity for:					
Refrigerators	101.3	24.0	16.9	7.1	NF
Other Appliances and Lighting	101.4	24.1	16.9	7.2	NF
Natural GasLPG	40.4 4.8	11.7 1.3	9.1 0.6	2.5 0.6	5.5 22.3
_	4.0	1.5		0.0	22.3
-			Billion Dollars		
Appliances Expenditures, Fuels Used: Electricity for:					
Refrigerators	12.14	2.61	1.87	0.74	2.6
Other Appliances and Lighting Natural Gas	48.44 2.86	11.42 0.65	8.20 0.53	3.23 0.13	2.8 8.3
LPG	0.36	0.09	0.05	Q	24.0
Total	63.80	14.77	10.64	4.13	2.6
_		Do	llars per Household ²		
Appliances Expenditures per Household, Fuels Used: Electricity for:					
Refrigerators	120	109	111	103	2.6
Other Appliances and Lighting	477	475	485	451	2.8
Natural Gas	71	56	58	50	5.3
LPGTotal	75 629	69 614	75 629	62 577	12.2 2.6
ı Otal	029	014	029	311	2.0

Includes energy expenditures for refrigeration and lighting.
 Averages are for those households using each of the fuels for appliances.
 NF = No applicable RSE row factor.

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 1997 Residential Energy Consumption Survey.

Table CE5-11e. Appliances¹ Energy Expenditures in U.S. Households by South Census Region, 1997

		J - ,				
			Sou	th Census Region		
				Census Division		
	Total U.S.	Total	South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.4	0.9	1.4	1.2	1.4	RSE Row Factors
			Million	Households	1	
Total U.S. Households	101.5	35.9	18.7	6.3	10.8	NF
Number of Households With Appliances, Fuels Used (more than one may apply): Electricity for:						
Refrigerators	101.3	35.8	18.7	6.3	10.8	NF
Other Appliances and Lighting		35.9	18.7	6.3	10.8	NF
Natural GasLPG		9.6 1.7	3.5 0.8	1.2 0.5	4.9 0.4	8.7 20.2
				on Dollars	0.1	20.2
Appliances Expenditures, Fuels Used: Electricity for:						
Refrigerators	12.14	4.41	2.21	0.67 2.72	1.53	2.9
Other Appliances and Lighting Natural Gas		17.32 0.76	9.03 0.33	0.09	5.57 0.34	2.7 14.2
LPG		0.13	0.07	0.04	0.02	24.3
Total	63.80	22.62	11.65	3.51	7.46	2.6
			Dollars p	per Household ²		
Appliances Expenditures per Household, Fuels Used: Electricity for:						
Refrigerators	120	123	118	105	141	2.9
Other Appliances and Lighting	477	483	483	428	514	2.7
Natural Gas		79	94	72	70	8.4
LPG Total	75 629	77 631	87 623	72 553	63 689	12.9
10(a)	029	031	023	333	009	2.0

Includes energy expenditures for refrigeration and lighting.
 Averages are for those households using each of the fuels for appliances.
 NF = No applicable RSE row factor.
 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 1997 Residential Energy Consumption Survey.

Table CE5-12e. Appliances¹ Energy Expenditures in U.S. Households by West Census Region, 1997

			West Census Region	West Census Region				
			Census I	Division				
	Total U.S.	Total	Mountain	Pacific				
RSE Column Factor:	0.5	1.0	1.9	1.1	RSE Row Factors			
		N	lillion Households					
Total U.S. Households	101.5	21.8	6.2	15.6	NF			
Number of Households With Appliances, Fuels Used (more than one may apply): Electricity for:								
Refrigerators	101.3	21.7	6.2	15.6	NF			
Other Appliances and	404.4	24.2	0.0	45.0				
Lighting Natural Gas		21.8 9.5	6.2 1.9	15.6 7.5	NF 5.1			
LPG		0.7	0.2	0.4	22.2			
	Billion Dollars							
Appliances Expenditures, Fuels Used:								
Electricity for:								
Refrigerators Other Appliances and	12.14	2.50	0.63	1.87	3.0			
Lighting	48.44	9.12	2.57	6.56	3.2			
Natural Gas		0.59	0.09	0.50	9.0			
LPG		0.04	0.02	0.02	24.8			
Total	63.80	12.25	3.30	8.96	3.0			
		Dol	lars per Household ²					
Appliances Expenditures per Household, Fuels								
Used:								
Electricity for:								
Refrigerators	120	115	102	120	3.0			
Other Appliances and	477	440	446	400	2.0			
Lighting Natural Gas		419 62	416 45	420 67	3.2 6.0			
LPG	• •	62 61	45 68	57 57	11.5			
					1			

¹ Includes energy expenditures for refrigeration and lighting.
² Averages are for those households using each of the fuels for appliances.

NF = No applicable RSE row factor.

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 1997 Residential Energy Consumption Survey.