

**Table R19.87. Total Expenditures for All End Uses by Energy Source in Residential Buildings, 1987
(Million Dollars)**

Building Characteristics	Energy Sources				RSE Row Factors
	All Major Sources	Electricity	Natural Gas	Fuel Oil	
	1987 Dollars	1987 Dollars	1987 Dollars	1987 Dollars	
	RSE Column Factors:	0.6	0.7	1.2	1.9
All Buildings	97,747	61,580	26,149	6,559	2.4
Census Region					
Northeast	24,309	12,339	6,666	4,860	4.8
Midwest	25,028	14,080	9,003	857	4.5
South	33,404	25,129	6,051	741	5.3
West	15,006	10,032	4,429	102	5.9
Census Division					
New England	5,219	2,565	993	1,521	6.8
Middle Atlantic	19,090	9,774	5,673	3,339	5.9
East North Central	18,218	9,962	6,762	724	5.3
West North Central	6,809	4,118	2,242	133	8.8
South Atlantic	17,569	13,081	2,934	664	8.5
East South Central	6,037	4,654	931	Q	9.7
West South Central	9,798	7,394	2,187	*	9.9
Mountain	4,195	2,626	1,422	Q	10.6
Pacific	10,811	7,406	3,006	Q	5.6
Type of Home					
Mobile Home	4,849	3,279	636	160	15.6
Single-Family					
Detached	67,626	43,133	17,497	4,400	3.4
Single-Family					
Attached	6,031	3,816	1,749	421	17.4
2 to 4 Units	9,096	4,852	3,445	774	8.3
5 or More Units	10,144	6,500	2,822	803	10.5
Building Floorspace (square feet)					
Fewer than 1,001	9,209	5,876	1,980	295	9.3
1,001 to 2,000	30,273	19,943	7,398	1,518	4.7
2,001 to 5,000	45,929	28,160	13,298	3,500	4.3
5,001 to 10,000	6,920	4,142	2,076	692	10.6
10,001 to 25,000	2,517	1,733	645	136	19.4
25,001 to 50,000	1,138	677	308	150	21.4
50,001 to 100,000	909	484	292	134	23.7
100,001 to 200,000	399	243	68	87	23.6
Over 200,000	452	Q	Q	46	25.4
Year Constructed					
1939 or Before	23,741	11,718	8,434	2,843	6.4
1940 to 1949	8,586	4,870	2,692	683	8.3
1950 to 1959	14,646	8,708	4,188	1,254	6.1
1960 to 1969	17,393	10,988	5,071	906	7.4
1970 to 1979	22,088	16,110	4,193	746	6.8
1980 to 1987	11,293	9,188	1,570	127	12.3

* = 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.

• See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-457 of the 1987 Residential Energy Consumption Survey.

**Table R20.87. Total Expenditures for Space Heating by Energy Source in Residential Buildings, 1987
(Million Dollars)**

Building Characteristics RSE Column Factors:	Energy Sources				RSE Row Factors
	All Major Sources	Electricity	Natural Gas	Fuel Oil	
	1987 Dollars	1987 Dollars	1987 Dollars	1987 Dollars	
	NF	NF	NF	NF	
All Buildings	31,682	5,529	18,046	5,610	
Census Region					
Northeast	9,915	1,124	4,569	3,945	
Midwest	9,499	862	6,941	850	
South	8,549	2,607	4,130	721	
West	3,718	935	2,407	94	
Census Division					
New England	2,211	230	671	1,242	
Middle Atlantic	7,703	894	3,898	2,703	
East North Central	7,198	650	5,217	719	
West North Central	2,302	213	1,723	132	
South Atlantic	4,817	1,402	2,136	645	
East South Central	1,773	696	680	Q	
West South Central	1,959	509	1,314	*	
Mountain	1,271	177	981	Q	
Pacific	2,447	759	1,426	Q	
Type of Home					
Mobile Home	1,521	342	451	160	
Single-Family					
Detached	21,541	3,457	12,387	3,845	
Single-Family					
Attached	2,145	518	1,208	378	
2 to 4 Units	3,398	430	2,299	649	
5 or More Units	3,076	781	1,701	578	
Building Floorspace (square feet)					
Fewer than 1,001	2,771	472	1,307	276	
1,001 to 2,000	9,248	1,807	5,005	1,353	
2,001 to 5,000	15,694	2,507	9,488	3,014	
5,001 to 10,000	2,324	317	1,434	564	
10,001 to 25,000	700	219	374	107	
25,001 to 50,000	335	62	164	105	
50,001 to 100,000	307	35	177	95	
100,001 to 200,000	131	Q	Q	62	
Over 200,000	170	Q	Q	33	
Year Constructed					
1939 or Before	9,709	540	6,119	2,525	
1940 to 1949	2,944	245	1,862	590	
1950 to 1959	4,700	414	2,839	1,048	
1960 to 1969	5,311	860	3,409	725	
1970 to 1979	6,332	2,157	2,828	624	
1980 to 1987	2,687	1,313	989	98	

NF = No applicable RSE row/column factor, estimates derived from regression model.

* = 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.
• See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-457 of the 1987 Residential Energy Consumption Survey.

Table R21.87. Total Expenditures for Air Conditioning and Appliances by Energy Source in Residential Buildings, 1987 (Million Dollars)

Building Characteristics RSE Column Factors:	Energy Source for Air Conditioning	Energy Sources for Appliances			RSE Row Factors
	All Major Sources	All Major Sources	Electricity	Natural Gas	
	1987 Dollars	1987 Dollars	1987 Dollars	1987 Dollars	
	NF	NF	NF	NF	
All Buildings	9,770	42,326	39,832	2,020	
Census Region					
Northeast	1,136	9,856	9,057	674	
Midwest	2,069	10,429	9,921	429	
South	5,716	14,096	13,455	435	
West	849	7,946	7,400	482	
Census Division					
New England	128	2,051	1,926	83	
Middle Atlantic	1,008	7,805	7,131	591	
East North Central	1,251	7,508	7,134	324	
West North Central	819	2,921	2,787	105	
South Atlantic	2,682	7,202	6,881	165	
East South Central	926	2,388	2,304	59	
West South Central	2,108	4,505	4,270	211	
Mountain	306	2,058	1,965	80	
Pacific	543	5,888	5,435	402	
Type of Home					
Mobile Home	378	2,029	1,829	60	
Single-Family					
Detached	6,977	29,893	28,329	1,238	
Single-Family					
Attached	588	2,510	2,367	139	
2 to 4 Units	596	3,781	3,460	317	
5 or More Units	1,231	4,113	3,847	265	
Building Floorspace (square feet)					
Fewer than 1,001	700	4,028	3,657	167	
1,001 to 2,000	3,152	13,340	12,621	595	
2,001 to 5,000	4,421	19,881	18,797	953	
5,001 to 10,000	805	2,860	2,705	142	
10,001 to 25,000	385	1,033	974	58	
25,001 to 50,000	102	498	448	50	
50,001 to 100,000	107	366	330	36	
100,001 to 200,000	40	163	149	14	
Over 200,000	58	156	Q	5	
Year Constructed					
1939 or Before	1,180	9,591	8,842	639	
1940 to 1949	678	3,713	3,433	245	
1950 to 1959	1,432	6,511	6,142	332	
1960 to 1969	2,135	7,533	7,085	383	
1970 to 1979	2,863	9,750	9,275	296	
1980 to 1987	1,482	5,228	5,054	125	

NF = No applicable RSE row/column factor, estimates derived from regression model.

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, Form EIA-457 of the 1987 Residential Energy Consumption Survey.

Table R22.87. Total Expenditures by End Use in Residential Buildings, 1987 (Million Dollars)

Building Characteristics	End Uses					RSE Row Factors
	All End Uses	Space Heating	Water Heating	Air Conditioning	Appliances	
	1987 Dollars	1987 Dollars	1987 Dollars	1987 Dollars	1987 Dollars	
	RSE Column Factors:	1.0	NF	NF	NF	
All Buildings	97,747	31,682	13,910	9,829	42,326	1.0
Census Region						
Northeast	24,309	9,915	3,403	1,136	9,856	2.6
Midwest	25,028	9,499	3,025	2,074	10,429	2.1
South	33,404	8,549	5,013	5,746	14,096	2.0
West	15,006	3,718	2,469	873	7,946	2.3
Census Division						
New England	5,219	2,211	829	128	2,051	4.3
Middle Atlantic	19,090	7,703	2,574	1,008	7,805	3.2
East North Central	18,218	7,198	2,258	1,255	7,508	2.5
West North Central	6,809	2,302	767	820	2,921	4.9
South Atlantic	17,569	4,817	2,868	2,682	7,202	3.6
East South Central	6,037	1,773	950	926	2,388	6.3
West South Central	9,798	1,959	1,195	2,138	4,505	7.1
Mountain	4,195	1,271	543	323	2,058	7.7
Pacific	10,811	2,447	1,926	550	5,888	3.8
Type of Home						
Mobile Home	4,849	1,521	920	378	2,029	11.4
Single-Family						
Detached	67,626	21,541	9,192	7,000	29,893	2.0
Single-Family						
Attached	6,031	2,145	788	588	2,510	13.2
2 to 4 Units	9,096	3,398	1,317	601	3,781	6.5
5 or More Units	10,144	3,076	1,694	1,262	4,113	6.9
Building Floorspace (square feet)						
Fewer than 1,001	9,209	2,771	1,710	700	4,028	6.5
1,001 to 2,000	30,273	9,248	4,526	3,159	13,340	2.9
2,001 to 5,000	45,929	15,694	5,913	4,441	19,881	2.8
5,001 to 10,000	6,920	2,324	903	832	2,860	8.5
10,001 to 25,000	2,517	700	395	389	1,033	13.4
25,001 to 50,000	1,138	335	204	102	498	17.1
50,001 to 100,000	909	307	129	107	366	14.9
100,001 to 200,000	399	131	62	41	163	20.8
Over 200,000	452	170	Q	58	58	25.0
Year Constructed						
1939 or Before	23,741	9,709	3,261	1,181	9,591	4.8
1940 to 1949	8,586	2,944	1,251	678	3,713	6.2
1950 to 1959	14,646	4,700	1,986	1,450	6,511	4.4
1960 to 1969	17,393	5,311	2,376	2,173	7,533	5.2
1970 to 1979	22,088	6,332	3,141	2,865	9,750	4.3
1980 to 1987	11,293	2,687	1,896	1,482	5,228	7.5

NF = No applicable RSE row/column factor, estimates derived from regression model.

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.

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Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-457 of the 1987 Residential Energy Consumption Survey.

Table R23.87. Electricity Expenditures by End Use in Residential Buildings, 1987 (Million Dollars)

Building Characteristics	End Uses					RSE Row Factors
	All End Uses	Space Heating	Water Heating	Air Conditioning	Appliances	
	1987 Dollars	1987 Dollars	1987 Dollars	1987 Dollars	1987 Dollars	
	RSE Column Factors:	1.0	NF	NF	NF	
All Buildings	61,580	5,529	6,450	9,770	39,832	1.4
Census Region						
Northeast	12,339	1,124	1,023	1,136	9,057	2.8
Midwest	14,080	862	1,227	2,069	9,921	3.8
South	25,129	2,607	3,352	5,716	13,455	2.7
West	10,032	935	848	849	7,400	2.8
Census Division						
New England	2,565	230	280	128	1,926	5.6
Middle Atlantic	9,774	894	743	1,008	7,131	3.2
East North Central	9,962	650	928	1,251	7,134	4.3
West North Central	4,118	213	299	819	2,787	5.3
South Atlantic	13,081	1,402	2,116	2,682	6,881	4.9
East South Central	4,654	696	729	926	2,304	7.1
West South Central	7,394	509	507	2,108	4,270	8.0
Mountain	2,626	177	178	306	1,965	8.2
Pacific	7,406	759	670	543	5,435	4.2
Type of Home						
Mobile Home	3,279	342	729	378	1,829	11.9
Single-Family						
Detached	43,133	3,457	4,370	6,977	28,329	2.1
Single-Family						
Attached	3,816	518	343	588	2,367	16.2
2 to 4 Units	4,852	430	366	596	3,460	8.3
5 or More Units	6,500	781	641	1,231	3,847	9.1
Building Floorspace						
(square feet)						
Fewer than 1,001	5,876	472	1,047	700	3,657	6.8
1,001 to 2,000	19,943	1,807	2,363	3,152	12,621	3.6
2,001 to 5,000	28,160	2,507	2,436	4,421	18,797	2.9
5,001 to 10,000	4,142	317	314	805	2,705	10.1
10,001 to 25,000	1,733	219	155	385	974	16.6
25,001 to 50,000	677	62	65	102	448	20.6
50,001 to 100,000	484	35	11	107	330	14.9
100,001 to 200,000	243	Q	Q	40	149	26.8
Over 200,000	Q	Q	Q	58	Q	25.0
Year Constructed						
1939 or Before	11,718	540	1,156	1,180	8,842	4.8
1940 to 1949	4,870	245	514	678	3,433	6.3
1950 to 1959	8,708	414	719	1,432	6,142	4.5
1960 to 1969	10,988	860	908	2,135	7,085	5.4
1970 to 1979	16,110	2,157	1,814	2,863	9,275	4.9
1980 to 1987	9,188	1,313	1,338	1,482	5,054	8.1

NF = No applicable RSE row/column factor, estimates derived from regression model.

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.

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Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-457 of the 1987 Residential Energy Consumption Survey.

Table R24.87. Natural Gas Expenditures by End Use in Residential Buildings, 1987 (Million Dollars)

Building Characteristics	End Uses				RSE Row Factors
	All End Uses	Space Heating	Water Heating	Appliances	
	1987 Dollars	1987 Dollars	1987 Dollars	1987 Dollars	
	RSE Column Factors:	1.0	NF	NF	NF
All Buildings	26,149	18,046	6,024	2,020	3.8
Census Region					
Northeast	6,666	4,569	1,423	674	10.2
Midwest	9,003	6,941	1,628	429	4.3
South	6,051	4,130	1,456	435	9.4
West	4,429	2,407	1,516	482	4.3
Census Division					
New England	993	671	239	83	12.3
Middle Atlantic	5,673	3,898	1,184	591	11.8
East North Central	6,762	5,217	1,217	324	5.7
West North Central	2,242	1,723	412	105	7.0
South Atlantic	2,934	2,136	633	165	17.8
East South Central	931	680	191	59	10.7
West South Central	2,187	1,314	633	211	9.2
Mountain	1,422	981	345	80	10.0
Pacific	3,006	1,426	1,171	402	5.8
Type of Home					
Mobile Home	636	451	125	60	20.1
Single-Family					
Detached	17,497	12,387	3,848	1,238	4.8
Single-Family					
Attached	1,749	1,208	402	139	16.2
2 to 4 Units	3,445	2,299	824	317	7.6
5 or More Units	2,822	1,701	825	265	10.0
Building Floorspace					
(square feet)					
Fewer than 1,001	1,980	1,307	505	167	9.5
1,001 to 2,000	7,398	5,005	1,792	595	5.5
2,001 to 5,000	13,298	9,488	2,838	953	5.1
5,001 to 10,000	2,076	1,434	473	142	10.7
10,001 to 25,000	645	374	209	58	14.7
25,001 to 50,000	308	164	94	50	21.9
50,001 to 100,000	292	177	79	36	31.9
100,001 to 200,000	68	Q	19	14	34.9
Over 200,000	Q	Q	Q	5	25.0
Year Constructed					
1939 or Before	8,434	6,119	1,676	639	7.4
1940 to 1949	2,692	1,862	585	245	8.8
1950 to 1959	4,188	2,839	999	332	6.6
1960 to 1969	5,071	3,409	1,241	383	7.3
1970 to 1979	4,193	2,828	1,067	296	7.1
1980 to 1987	1,570	989	456	125	14.4

NF = No applicable RSE row/column factor, estimates derived from regression model.

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, Form EIA-457 of the 1987 Residential Energy Consumption Survey.

Table R25.87. Fuel Oil Expenditures by End Use in Residential Buildings, 1987 (Million Dollars)

Building Characteristics	End Uses			RSE Row Factors
	All End Uses	Space Heating	Water Heating	
	1987 Dollars	1987 Dollars	1987 Dollars	
	RSE Column Factors:	1.0	NF	NF
All Buildings	6,559	5,610	935	5.9
Census Region				
Northeast	4,860	3,945	901	7.2
Midwest	857	850	Q	12.0
South	741	721	19	15.7
West	102	94	Q	43.5
Census Division				
New England	1,521	1,242	274	7.2
Middle Atlantic	3,339	2,703	627	9.7
East North Central	724	719	Q	12.8
West North Central	133	132	Q	32.3
South Atlantic	664	645	19	16.3
East South Central	Q	Q	*	0.0
West South Central	*	*	*	0.0
Mountain	Q	Q	*	0.0
Pacific	Q	Q	Q	0.0
Type of Home				
Mobile Home	160	160	*	21.6
Single-Family				
Detached	4,400	3,845	542	6.8
Single-Family				
Attached	421	378	43	26.7
2 to 4 Units	774	649	125	11.5
5 or More Units	803	578	225	19.7
Building Floorspace (square feet)				
Fewer than 1,001	295	276	19	17.7
1,001 to 2,000	1,518	1,353	165	8.8
2,001 to 5,000	3,500	3,014	485	8.3
5,001 to 10,000	692	564	115	13.8
10,001 to 25,000	136	107	Q	43.0
25,001 to 50,000	150	105	44	27.4
50,001 to 100,000	134	95	39	44.5
100,001 to 200,000	87	62	25	16.0
Over 200,000	46	33	13	47.8
Year Constructed				
1939 or Before	2,843	2,525	318	9.9
1940 to 1949	683	590	92	13.8
1950 to 1959	1,254	1,048	206	10.3
1960 to 1969	906	725	173	14.5
1970 to 1979	746	624	119	14.4
1980 to 1987	127	98	27	26.0

NF = No applicable RSE row/column factor, estimates derived from regression model.

* = 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.

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