

**Table 28. Consumption and Expenditures in Midwest Region Households, 1993**

Characteristics	Average of Major Energy Sources <sup>1</sup>											RSE Row Factors
	Residential Buildings		Consumption				Expenditures (dollars)					
	Total Households (million)	Total Number (million)	Total Floor-space (billion sq. ft.)	per Building (million Btu)	per Square Foot (thousand Btu)	per Household (million Btu)	per Household Member (million Btu)	per Building	per Square Foot	per Household	per Household Member	
RSE Column Factor:	1.5	1.6	1.6	0.9	0.8	0.9	1.0	0.8	0.9	0.7	0.7	

**Midwest Region**

<b>Total Region</b> .....	23.3	19.0	50.6	165	62	134.3	52	1,640	0.62	1,336	521	2.3
<b>Climate Zone<sup>2</sup></b>												
Under 2,000 CDD and Over 5,500 HDD .....	19.5	15.5	41.7	168	62	134.0	52	1,640	0.61	1,310	510	3.6
Under 5,500 HDD .....	3.8	3.4	8.9	152	59	136.0	54	1,639	0.64	1,467	578	10.3
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>												
Single-Family .....	16.6	16.6	43.9	150	57	150.1	55	1,481	0.56	1,481	541	2.4
Mobile Home .....	1.4	1.4	1.4	105	107	105.3	41	1,268	1.29	1,268	489	8.1
Multifamily (2 or more units) .....	5.3	1.0	5.3	496	93	92.7	46	4,808	0.90	899	446	6.0
<b>Heated Floorspace (square feet)</b>												
Fewer than 1,000 .....	5.9	3.0	5.2	176	100	88.6	47	1,827	1.03	918	484	5.2
1,000 to 1,999 .....	8.2	6.9	15.0	158	72	132.8	52	1,572	0.72	1,324	516	3.1
2,000 or More .....	9.2	9.1	30.3	167	50	164.8	55	1,630	0.49	1,612	539	2.9
<b>Ownership of Unit</b>												
Owned .....	16.2	15.8	41.3	151	58	147.1	55	1,514	0.58	1,472	546	2.5
Rented .....	7.1	3.2	9.3	231	81	105.1	46	2,253	0.79	1,024	452	5.1
<b>Year of Construction</b>												
1939 or Before .....	7.4	6.3	16.9	184	69	156.2	60	1,664	0.62	1,412	543	4.1
1940 to 1979 .....	11.7	9.5	24.1	161	63	129.5	51	1,642	0.64	1,323	525	3.2
1980 or After <sup>3</sup> .....	4.2	3.2	9.6	140	47	109.0	42	1,586	0.53	1,234	470	5.9
<b>1993 Family Income</b>												
Less than \$10,000 .....	3.0	1.7	4.0	184	80	107.9	55	1,827	0.79	1,070	550	7.1
\$10,000 to \$19,999 .....	5.3	4.2	10.1	162	67	126.8	58	1,556	0.65	1,221	555	4.7
\$20,000 to \$34,999 .....	6.0	5.1	12.3	156	65	132.8	53	1,559	0.65	1,325	532	3.6
\$35,000 to \$49,999 .....	4.4	3.7	10.7	166	57	138.6	47	1,689	0.58	1,410	479	3.9
\$50,000 or More .....	4.6	4.2	13.5	170	53	158.1	51	1,700	0.53	1,583	508	4.0
<b>Below Poverty Line</b>												
100 Percent .....	2.6	1.6	3.7	200	86	120.5	45	1,969	0.84	1,185	445	7.6
125 Percent .....	4.0	2.7	6.2	179	77	120.2	44	1,780	0.77	1,197	440	6.2
150 Percent .....	5.3	3.7	8.5	174	75	119.8	45	1,743	0.76	1,203	450	4.7
<b>Age of Householder</b>												
Under 35 Years .....	6.6	4.5	11.5	176	68	120.0	42	1,755	0.68	1,195	414	4.3
35 to 59 Years .....	9.9	8.7	23.6	163	60	142.7	49	1,666	0.61	1,457	501	3.2
60 Years and Over .....	6.8	5.8	15.5	159	60	135.8	78	1,512	0.57	1,294	739	3.8
<b>Household Size</b>												
1 Person .....	6.1	4.0	9.5	157	66	102.0	102	1,498	0.62	972	972	4.9
2 to 4 Persons .....	14.9	13.0	35.5	164	60	143.1	52	1,646	0.60	1,434	520	2.4
5 or More Persons .....	2.3	2.0	5.5	183	67	163.1	30	1,873	0.69	1,671	303	4.4

See footnotes at end of table.

**Table 28. Consumption and Expenditures in Midwest Region Households, 1993 (Continued)**

Characteristics	Average of Major Energy Sources <sup>1</sup>											RSE Row Factors
	Residential Buildings			Consumption				Expenditures (dollars)				
	Total Households (million)	Total Number (million)	Total Floor-space (billion sq. ft.)	per Building (million Btu)	per Square Foot (thousand Btu)	per Household (million Btu)	per Household Member (million Btu)	per Building	per Square Foot	per Household	per Household Member	
RSE Column Factor:	1.5	1.6	1.6	0.9	0.8	0.9	1.0	0.8	0.9	0.7	0.7	
<b>East North Central Division</b> .....	16.4	13.1	35.3	173	64	138.8	54	1,697	0.63	1,358	526	2.6
<b>Climate Zone<sup>2</sup></b>												
Under 2,000 CDD and												
Over 5,500 HDD .....	14.4	11.3	31.0	176	64	138.0	53	1,697	0.62	1,333	513	4.1
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and												
Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>												
Single-Family .....	11.4	11.4	30.3	156	58	155.6	56	1,520	0.57	1,520	549	2.8
Mobile Home .....	0.9	0.9	0.9	106	105	105.7	41	1,275	1.27	1,275	492	9.6
Multifamily (2 or more units) .....	4.0	0.7	4.0	529	98	98.8	48	4,921	0.91	918	450	6.4
<b>Heated Floorspace (square feet)</b>												
Fewer than 1,000 .....	4.0	1.8	3.5	196	103	89.0	49	1,984	1.05	901	493	6.4
1,000 to 1,999 .....	5.8	4.8	10.5	170	77	141.0	54	1,666	0.76	1,384	531	3.7
2,000 or More .....	6.6	6.5	21.3	170	52	167.4	55	1,638	0.50	1,618	536	3.3
<b>Ownership of Unit</b>												
Owned .....	11.2	10.9	28.8	157	59	152.1	56	1,559	0.59	1,509	552	2.9
Rented .....	5.1	2.2	6.5	253	85	109.4	49	2,376	0.80	1,027	458	6.0
<b>Year of Construction</b>												
1939 or Before .....	4.9	4.1	11.2	197	72	164.5	63	1,769	0.65	1,475	566	4.8
1940 to 1979 .....	8.8	6.9	17.9	167	64	131.6	53	1,690	0.65	1,330	534	3.8
1980 or After <sup>3</sup> .....	2.7	2.1	6.2	147	49	115.0	41	1,576	0.53	1,237	438	6.3
<b>1993 Family Income</b>												
Less than \$10,000 .....	2.0	1.1	2.6	198	86	111.3	55	1,904	0.83	1,072	534	7.8
\$10,000 to \$19,999 .....	3.8	2.8	6.9	176	72	132.6	63	1,640	0.67	1,239	590	5.8
\$20,000 to \$34,999 .....	4.0	3.3	8.4	166	66	138.9	55	1,637	0.65	1,370	543	4.7
\$35,000 to \$49,999 .....	3.0	2.5	7.2	173	61	143.0	49	1,717	0.60	1,418	482	4.7
\$50,000 or More .....	3.5	3.3	10.3	171	54	157.1	50	1,720	0.55	1,584	500	4.7
<b>Below Poverty Line</b>												
100 Percent .....	1.8	1.0	2.4	217	93	128.0	45	2,061	0.89	1,214	431	8.5
125 Percent .....	2.7	1.7	3.9	194	86	127.4	45	1,854	0.82	1,219	429	7.2
150 Percent .....	3.5	2.3	5.3	188	83	125.1	46	1,818	0.80	1,209	443	5.2
<b>Age of Householder</b>												
Under 35 Years .....	4.3	2.8	7.6	192	71	127.0	43	1,878	0.70	1,243	425	5.4
35 to 59 Years .....	7.2	6.2	16.9	169	62	145.3	50	1,692	0.62	1,458	498	4.0
60 Years and Over .....	4.9	4.0	10.7	168	63	139.5	79	1,577	0.59	1,313	747	4.3
<b>Household Size</b>												
1 Person .....	4.4	2.7	6.7	169	69	104.3	104	1,583	0.64	979	979	6.2
2 to 4 Persons .....	10.4	9.0	24.9	172	62	148.8	53	1,699	0.61	1,472	525	2.7
5 or More Persons .....	1.6	1.4	3.7	193	71	169.5	30	1,911	0.70	1,682	302	5.2

See footnotes at end of table.

**Table 28. Consumption and Expenditures in Midwest Region Households, 1993 (Continued)**

Characteristics	Average of Major Energy Sources <sup>1</sup>											RSE Row Factors
	Residential Buildings			Consumption				Expenditures (dollars)				
	Total Households (million)	Total Number (million)	Total Floor-space (billion sq. ft.)	per Building (million Btu)	per Square Foot (thousand Btu)	per Household (million Btu)	per Household Member (million Btu)	per Building	per Square Foot	per Household	per Household Member	
RSE Column Factor:	1.5	1.6	1.6	0.9	0.8	0.9	1.0	0.8	0.9	0.7	0.7	
<b>West North Central Division</b> .....	6.9	5.9	15.2	146	56	123.8	49	1,512	0.58	1,282	508	4.6
<b>Climate Zone<sup>2</sup></b>												
Under 2,000 CDD and Over 5,500 HDD .....	5.0	4.2	10.7	146	57	122.4	49	1,485	0.58	1,242	501	7.1
Under 5,500 HDD .....	1.9	1.7	4.6	145	54	127.4	48	1,580	0.59	1,386	524	10.1
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>												
Single-Family .....	5.2	5.2	13.5	138	53	138.1	52	1,396	0.53	1,396	523	4.3
Mobile Home .....	0.5	0.5	0.4	105	112	104.6	40	1,254	1.34	1,254	482	10.7
Multifamily (2 or more units) .....	1.3	0.2	1.3	393	76	74.0	38	4,462	0.87	840	433	13.2
<b>Heated Floorspace (square feet)</b>												
Fewer than 1,000 .....	1.8	1.1	1.7	144	93	87.7	43	1,569	1.01	955	467	8.3
1,000 to 1,999 .....	2.5	2.1	4.5	131	62	113.4	46	1,361	0.64	1,182	480	5.4
2,000 or More .....	2.7	2.6	9.0	159	47	158.4	54	1,610	0.47	1,600	548	5.3
<b>Ownership of Unit</b>												
Owned .....	5.0	4.9	12.5	138	54	135.8	52	1,413	0.55	1,389	533	4.7
Rented .....	2.0	1.0	2.7	184	69	93.9	40	1,987	0.75	1,016	436	9.3
<b>Year of Construction</b>												
1939 or Before .....	2.5	2.2	5.7	159	62	139.9	54	1,468	0.57	1,289	499	7.4
1940 to 1979 .....	3.0	2.5	6.2	143	59	123.0	47	1,510	0.62	1,303	501	5.4
1980 or After <sup>3</sup> .....	1.5	1.1	3.4	128	43	98.4	43	1,602	0.54	1,228	539	10.6
<b>1993 Family Income</b>												
Less than \$10,000 .....	0.9	0.6	1.4	159	68	100.7	55	1,683	0.72	1,068	586	13.7
\$10,000 to \$19,999 .....	1.6	1.4	3.2	132	57	112.9	46	1,381	0.59	1,180	484	7.5
\$20,000 to \$34,999 .....	2.0	1.8	3.9	138	62	120.7	50	1,410	0.64	1,235	510	5.3
\$35,000 to \$49,999 .....	1.4	1.2	3.5	151	51	129.1	44	1,630	0.55	1,394	472	6.3
\$50,000 or More .....	1.0	1.0	3.3	167	50	161.6	55	1,634	0.49	1,582	538	7.1
<b>Below Poverty Line</b>												
100 Percent .....	0.8	0.5	1.2	166	70	104.6	45	1,786	0.75	1,123	481	14.1
125 Percent .....	1.4	1.0	2.3	151	63	106.1	42	1,645	0.69	1,156	463	10.1
150 Percent .....	1.8	1.4	3.2	149	63	109.8	43	1,615	0.69	1,191	464	8.3
<b>Age of Householder</b>												
Under 35 Years .....	2.3	1.6	3.8	149	63	106.6	38	1,538	0.65	1,103	393	6.5
35 to 59 Years .....	2.7	2.5	6.7	150	55	135.9	47	1,603	0.59	1,454	508	5.5
60 Years and Over .....	2.0	1.8	4.7	139	53	126.7	73	1,364	0.52	1,247	720	7.3

See footnotes at end of table.

**Table 28. Consumption and Expenditures in Midwest Region Households, 1993 (Continued)**

Characteristics	Total Households (million)	Residential Buildings		Average of Major Energy Sources <sup>1</sup>								RSE Row Factors
		Total Number (million)	Total Floor-space (billion sq. ft.)	Consumption				Expenditures (dollars)				
				per Building (million Btu)	per Square Foot (thousand Btu)	per Household (million Btu)	per Household Member (million Btu)	per Building	per Square Foot	per Household	per Household Member	
RSE Column Factor:	1.5	1.6	1.6	0.9	0.8	0.9	1.0	0.8	0.9	0.7	0.7	

**Household Size**

1 Person .....	1.7	1.2	2.8	132	58	96.2	96	1,311	0.58	954	954	7.5
2 to 4 Persons .....	4.5	4.0	10.6	148	55	130.1	49	1,527	0.57	1,346	510	4.4
5 or More Persons .....	0.7	0.7	1.8	163	60	149.5	28	1,795	0.66	1,649	306	7.8

<sup>1</sup> Major Energy Sources include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas.

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

<sup>3</sup> Does not include all new construction for 1993.

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" in *Household Energy Consumption and Expenditures 1993* 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 1993 Residential Energy Consumption Survey.

**Table 29. Total Consumption in Midwest Region Households, 1993**

Characteristics	Major Energy Sources <sup>1</sup> (tril-lion Btu)	Electricity			Natural Gas		Fuel Oil		Kerosene		Liquefied Petroleum Gas		RSE Row Factors
		Primary (tril-lion Btu)	Site		(tril-lion Btu)	(bil-lion cubic feet)	(tril-lion Btu)	(bil-lion gal-lons)	(tril-lion Btu)	(bil-lion gal-lons)	(tril-lion Btu)	(bil-lion gal-lons)	
			(tril-lion Btu)	(bil-lion kWh)									
RSE Column Factor:	0.4	0.5	0.5	0.5	0.6	0.6	1.6	1.6	2.6	2.6	1.6	1.6	
<b>Midwest Region</b>													
<b>Total Region</b> .....	3,129.4	2,234.3	741.5	217.3	2,069.0	2,013	126.7	0.92	Q	Q	186.4	2.04	9.8
<b>Climate Zone<sup>2</sup></b>													
Under 2,000 HDD and Over 5,500 HDD .....	2,605.8	1,797.3	596.5	174.8	1,748.1	1,700	118.7	0.86	Q	Q	138.1	1.51	17.1
Under 5,500 HDD .....	523.6	437.0	145.0	42.5	320.9	312	Q	Q	Q	Q	Q	Q	71.2
2,000 HDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>													
Single-Family .....	2,487.8	1,780.7	591.0	173.2	1,613.1	1,569	123.9	0.90	Q	Q	154.6	1.69	11.1
Mobile Home .....	149.0	138.8	46.1	13.5	70.8	69	Q	Q	Q	Q	31.7	0.35	36.2
Multifamily (2 or more units) ..	492.6	314.8	104.5	30.6	385.0	375	Q	Q	Q	Q	Q	Q	20.5
<b>Heated Floorspace (square feet)</b>													
Fewer than 1,000 .....	520.7	380.1	126.2	37.0	353.1	344	Q	Q	Q	Q	37.1	0.41	17.1
1,000 to 1,999 .....	1,089.5	768.0	254.9	74.7	744.3	724	38.6	0.28	1.8	0.01	49.9	0.55	14.4
2,000 or More .....	1,519.2	1,086.1	360.5	105.6	971.6	945	84.0	0.61	Q	Q	99.4	1.09	10.4
<b>Ownership of Unit</b>													
Owned .....	2,382.7	1,740.1	577.5	169.3	1,529.3	1,488	110.1	0.80	Q	Q	160.9	1.76	11.3
Rented .....	746.7	494.2	164.0	48.1	539.7	525	16.6	0.12	Q	Q	25.5	0.28	17.6
<b>Year of Construction</b>													
1939 or Before .....	1,157.0	621.6	206.3	60.5	783.9	763	73.5	0.53	Q	Q	88.5	0.97	13.3
1940 to 1979 .....	1,519.1	1,148.3	381.1	111.7	1,015.5	988	52.7	0.38	0.6	(*)	69.1	0.76	14.3
1980 or After <sup>3</sup> .....	453.3	464.3	154.1	45.2	269.6	262	Q	Q	Q	Q	28.7	0.31	26.7
<b>1993 Family Income</b>													
Less than \$10,000 .....	319.1	220.1	73.1	21.4	212.7	207	Q	Q	Q	Q	24.2	0.26	25.0
\$10,000 to \$19,999 .....	678.0	432.1	143.4	42.0	472.1	459	26.8	0.19	Q	Q	32.4	0.35	14.2
\$20,000 to \$34,999 .....	799.6	559.4	185.6	54.4	511.5	498	42.6	0.31	0.6	(*)	59.2	0.65	14.3
\$35,000 to \$49,999 .....	612.7	460.5	152.8	44.8	386.3	376	34.2	0.25	0.4	(*)	39.0	0.43	15.4
\$50,000 or More .....	720.0	562.2	186.6	54.7	486.4	473	14.8	0.11	Q	Q	31.7	0.35	17.6
<b>Below Poverty Line</b>													
100 Percent .....	313.0	212.3	70.5	20.7	213.7	208	Q	Q	Q	Q	23.5	0.26	28.2
125 Percent .....	481.7	335.4	111.3	32.6	314.7	306	14.0	0.10	Q	Q	40.6	0.44	21.0
150 Percent .....	639.4	452.4	150.2	44.0	420.2	409	22.2	0.16	1.4	0.01	45.4	0.50	16.9
<b>Age of Householder</b>													
Under 35 Years .....	786.3	551.0	182.9	53.6	546.2	531	22.3	0.16	0.8	0.01	34.0	0.37	16.3
35 to 59 Years .....	1,417.0	1,109.5	368.2	107.9	912.7	888	41.4	0.30	1.8	0.01	92.9	1.02	13.6
60 Years and Over .....	926.1	573.9	190.5	55.8	610.1	593	63.0	0.46	Q	Q	59.4	0.65	15.3
<b>Household Size</b>													
1 Person .....	625.1	367.2	121.9	35.7	447.3	435	24.4	0.18	Q	Q	30.7	0.34	16.1
2 to 4 Persons .....	2,131.2	1,580.6	524.6	153.7	1,388.1	1,350	88.4	0.64	Q	Q	125.5	1.37	11.8
5 or More Persons .....	373.2	286.5	95.1	27.9	233.6	227	13.9	0.10	Q	Q	30.3	0.33	19.3

See footnotes at end of table.

**Table 29. Total Consumption in Midwest Region Households, 1993 (Continued)**

Characteristics	Major Energy Sources <sup>1</sup> (tril-lion Btu)	Electricity			Natural Gas		Fuel Oil		Kerosene		Liquefied Petroleum Gas		RSE Row Factors
		Primary (tril-lion Btu)	Site		(tril-lion Btu)	(bil-lion cubic feet)	(tril-lion Btu)	(bil-lion gal-lons)	(tril-lion Btu)	(bil-lion gal-lons)	(tril-lion Btu)	(bil-lion gal-lons)	
			(tril-lion Btu)	(bil-lion kWh)									
RSE Column Factor:	0.4	0.5	0.5	0.5	0.6	0.6	1.6	1.6	2.6	2.6	1.6	1.6	
<b>East North Central Division ..</b>	2,269.2	1,497.1	496.9	145.6	1,592.8	1,549	70.7	0.51	Q	Q	103.6	1.13	11.4
<b>Climate Zone<sup>2</sup></b>													
Under 2,000 CDD and Over 5,500 HDD .....	1,991.4	1,301.2	431.9	126.6	1,406.3	1,368	65.2	0.47	Q	Q	83.8	0.92	21.9
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>													
Single-Family .....	1,773.2	1,197.4	397.4	116.5	1,215.3	1,182	67.9	0.49	Q	Q	87.6	0.96	14.0
Mobile Home .....	99.9	92.0	30.5	8.9	53.4	52	Q	Q	Q	Q	Q	Q	55.0
Multifamily (2 or more units) ..	396.0	207.7	68.9	20.2	324.1	315	Q	Q	Q	Q	Q	Q	18.8
<b>Heated Floorspace (square feet)</b>													
Fewer than 1,000 .....	359.4	233.1	77.3	22.7	260.2	253	Q	Q	Q	Q	Q	Q	13.4
1,000 to 1,999 .....	811.6	528.0	175.3	51.4	587.2	571	21.1	0.15	1.4	0.01	26.7	0.29	15.8
2,000 or More .....	1,098.1	736.0	244.3	71.6	745.5	725	48.0	0.35	Q	Q	56.9	0.62	12.9
<b>Ownership of Unit</b>													
Owned .....	1,710.2	1,181.2	392.0	114.9	1,161.2	1,130	64.1	0.46	Q	Q	88.5	0.97	13.0
Rented .....	559.0	316.0	104.9	30.7	431.6	420	Q	Q	Q	Q	15.0	0.16	14.3
<b>Year of Construction</b>													
1939 or Before .....	806.9	406.2	134.8	39.5	577.9	562	39.2	0.28	Q	Q	50.4	0.55	14.0
1940 to 1979 .....	1,155.9	830.9	275.8	80.8	814.5	792	Q	Q	0.6	(*)	33.7	0.37	16.1
1980 or After <sup>3</sup> .....	306.4	260.0	86.3	25.3	200.5	195	Q	Q	Q	Q	19.6	0.21	30.7
<b>1993 Family Income</b>													
Less than \$10,000 .....	223.6	136.0	45.2	13.2	163.2	159	Q	Q	Q	Q	Q	Q	24.6
\$10,000 to \$19,999 .....	498.4	281.9	93.6	27.4	371.7	362	Q	Q	Q	Q	15.6	0.17	18.8
\$20,000 to \$34,999 .....	555.8	359.7	119.4	35.0	387.4	377	19.7	0.14	Q	Q	28.7	0.31	19.6
\$35,000 to \$49,999 .....	433.9	294.0	97.6	28.6	291.6	284	Q	Q	Q	Q	23.7	0.26	19.0
\$50,000 or More .....	557.4	425.4	141.2	41.4	378.9	369	Q	Q	Q	Q	25.5	0.28	20.0
<b>Below Poverty Line</b>													
100 Percent .....	226.7	134.5	44.6	13.1	169.5	165	Q	Q	Q	Q	Q	Q	31.6
125 Percent .....	337.7	206.6	68.6	20.1	244.4	238	Q	Q	Q	Q	16.8	0.18	26.2
150 Percent .....	437.5	270.3	89.7	26.3	318.3	310	Q	Q	Q	Q	18.5	0.20	19.3
<b>Age of Householder</b>													
Under 35 Years .....	545.8	337.1	111.9	32.8	408.0	397	Q	Q	Q	Q	Q	Q	15.4
35 to 59 Years .....	1,045.6	761.2	252.6	74.0	711.1	692	24.5	0.18	Q	Q	56.0	0.61	16.8
60 Years and Over .....	677.8	398.8	132.4	38.8	473.7	461	36.1	0.26	Q	Q	32.5	0.36	14.6
<b>Household Size</b>													
1 Person .....	460.9	251.2	83.4	24.4	349.5	340	Q	Q	Q	Q	Q	Q	15.6
2 to 4 Persons .....	1,543.9	1,062.8	352.7	103.4	1,059.4	1,031	57.4	0.42	Q	Q	70.2	0.77	14.7
5 or More Persons .....	264.4	183.1	60.8	17.8	183.8	179	Q	Q	Q	Q	14.8	0.16	22.4

See footnotes at end of table.

**Table 29. Total Consumption in Midwest Region Households, 1993 (Continued)**

Characteristics	Major Energy Sources <sup>1</sup> (trillion Btu)	Electricity			Natural Gas		Fuel Oil		Kerosene		Liquefied Petroleum Gas		RSE Row Factors
		Primary (trillion Btu)	Site		(trillion Btu)	(billion cubic feet)	(trillion Btu)	(billion gallons)	(trillion Btu)	(billion gallons)	(trillion Btu)	(billion gallons)	
			(trillion Btu)	(billion kWh)									
RSE Column Factor:	0.4	0.5	0.5	0.5	0.6	0.6	1.6	1.6	2.6	2.6	1.6	1.6	
<b>West North Central Division</b>	860.2	737.2	244.7	71.7	476.2	463	56.0	0.41	Q	Q	82.8	0.91	16.5
<b>Climate Zone<sup>2</sup></b>													
Under 2,000 CDD and Over 5,500 HDD .....	614.5	496.1	164.6	48.3	341.8	333	53.5	0.39	Q	Q	54.3	0.59	24.7
Under 5,500 HDD .....	245.8	241.1	80.0	23.5	134.4	131	Q	Q	Q	Q	Q	Q	45.8
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>													
Single-Family .....	714.6	583.3	193.6	56.7	397.9	387	56.0	0.41	Q	Q	67.0	0.73	14.6
Mobile Home .....	49.0	46.8	15.5	4.5	Q	Q	Q	Q	Q	Q	15.7	0.17	42.7
Multifamily (2 or more units) ..	96.6	107.1	35.6	10.4	60.9	59	Q	Q	Q	Q	Q	Q	54.5
<b>Heated Floorspace (square feet)</b>													
Fewer than 1,000 .....	161.3	147.1	48.8	14.3	93.0	90	Q	Q	Q	Q	17.1	0.19	33.4
1,000 to 1,999 .....	277.9	240.0	79.7	23.3	157.2	153	17.5	0.13	Q	Q	Q	Q	24.8
2,000 or More .....	421.1	350.1	116.2	34.1	226.1	220	36.1	0.26	Q	Q	42.5	0.47	17.7
<b>Ownership of Unit</b>													
Owned .....	672.5	558.9	185.5	54.4	368.1	358	46.0	0.33	Q	Q	72.3	0.79	17.8
Rented .....	187.7	178.2	59.2	17.3	108.1	105	Q	Q	Q	Q	10.5	0.12	35.3
<b>Year of Construction</b>													
1939 or Before .....	350.0	215.4	71.5	21.0	206.1	200	34.3	0.25	Q	Q	38.2	0.42	27.1
1940 to 1979 .....	363.2	317.5	105.4	30.9	201.1	196	21.2	0.15	Q	Q	35.5	0.39	17.0
1980 or After <sup>3</sup> .....	147.0	204.3	67.8	19.9	69.1	67	Q	Q	Q	Q	Q	Q	37.9
<b>1993 Family Income</b>													
Less than \$10,000 .....	95.4	84.1	27.9	8.2	49.5	48	Q	Q	Q	Q	Q	Q	48.3
\$10,000 to \$19,999 .....	179.6	150.2	49.8	14.6	100.4	98	12.6	0.09	Q	Q	16.8	0.18	15.3
\$20,000 to \$34,999 .....	243.8	199.7	66.3	19.4	124.0	121	22.9	0.17	Q	Q	30.4	0.33	18.3
\$35,000 to \$49,999 .....	178.8	166.4	55.2	16.2	94.7	92	13.5	0.10	Q	Q	15.3	0.17	24.3
\$50,000 or More .....	162.6	136.8	45.4	13.3	107.6	105	Q	Q	Q	Q	Q	Q	34.1
<b>Below Poverty Line</b>													
100 Percent .....	86.2	77.9	25.8	7.6	44.2	43	Q	Q	Q	Q	Q	Q	51.3
125 Percent .....	144.1	128.8	42.7	12.5	70.3	68	Q	Q	Q	Q	23.8	0.26	37.1
150 Percent .....	201.9	182.1	60.5	17.7	101.9	99	Q	Q	Q	Q	26.9	0.29	31.6
<b>Age of Householder</b>													
Under 35 Years .....	240.4	213.9	71.0	20.8	138.2	134	12.2	0.09	Q	Q	18.9	0.21	25.5
35 to 59 Years .....	371.4	348.2	115.6	33.9	201.6	196	16.9	0.12	Q	Q	36.9	0.40	17.8
60 Years and Over .....	248.3	175.1	58.1	17.0	136.4	133	26.9	0.20	Q	Q	Q	Q	26.6
<b>Household Size</b>													
1 Person .....	164.2	116.0	38.5	11.3	97.8	95	15.8	0.12	Q	Q	12.1	0.13	29.8
2 to 4 Persons .....	587.3	517.8	171.9	50.4	328.7	320	31.0	0.22	Q	Q	55.3	0.61	17.8
5 or More Persons .....	108.8	103.4	34.3	10.1	49.8	48	Q	Q	Q	Q	15.5	0.17	33.4

<sup>1</sup> Major Energy Sources include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas.

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

<sup>3</sup> Does not include all new construction for 1993.

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

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. • Site electricity is the amount of electricity delivered to households. Primary electricity, which is not included in the "Total of Major Fuels" category, is site electricity plus the conversion losses in the electric generation process at the utility plant. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1993* 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 1993 Residential Energy Consumption Survey.

**Table 30. Total Expenditures in Midwest Region Households, 1993**  
(Billion Dollars)

Characteristics	Major Energy Sources <sup>1</sup>	Electricity	Natural Gas	Fuel Oil	Kerosene	Liquefied Petroleum Gas	RSE Row Factors
	0.4	0.5	0.6	1.6	2.8	1.6	
<b>Midwest Region</b>							
<b>Total Region</b> .....	31.12	17.55	11.13	0.79	0.05	1.59	10.1
<b>Climate Zone<sup>2</sup></b>							
Under 2,000 CDD and Over 5,500 HDD .....	25.47	14.13	9.40	0.74	Q	1.17	16.8
Under 5,500 HDD .....	5.65	3.42	1.73	Q	Q	Q	78.0
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>							
Single-Family .....	24.55	13.79	8.64	0.77	Q	1.31	11.0
Mobile Home .....	1.79	1.13	0.38	Q	Q	0.29	36.0
Multifamily (2 or more units) .....	4.78	2.64	2.12	Q	Q	Q	19.1
<b>Heated Floorspace (square feet)</b>							
Fewer than 1,000 .....	5.39	3.09	1.94	Q	Q	0.34	17.0
1,000 to 1,999 .....	10.86	6.15	4.02	0.25	0.02	0.43	13.5
2,000 or More .....	14.86	8.32	5.18	0.51	Q	0.83	10.4
<b>Ownership of Unit</b>							
Owned .....	23.84	13.53	8.22	0.68	Q	1.36	10.8
Rented .....	7.28	4.02	2.91	0.10	Q	0.23	17.0
<b>Year of Construction</b>							
1939 or Before .....	10.46	4.94	4.27	0.46	Q	0.75	13.0
1940 to 1979 .....	15.53	9.22	5.39	0.33	0.01	0.59	14.1
1980 or After <sup>3</sup> .....	5.13	3.39	1.48	Q	Q	0.25	26.2
<b>1993 Family Income</b>							
Less than \$10,000 .....	3.16	1.74	1.15	Q	Q	0.21	23.1
\$10,000 to \$19,999 .....	6.53	3.50	2.55	0.17	Q	0.28	14.7
\$20,000 to \$34,999 .....	7.98	4.41	2.79	0.26	0.01	0.51	14.9
\$35,000 to \$49,999 .....	6.23	3.60	2.09	0.21	(*)	0.33	14.4
\$50,000 or More .....	7.21	4.30	2.56	0.09	Q	0.27	15.4
<b>Below Poverty Line</b>							
100 Percent .....	3.08	1.69	1.14	Q	Q	0.21	25.8
125 Percent .....	4.80	2.65	1.70	0.09	Q	0.35	20.2
150 Percent .....	6.42	3.59	2.27	0.14	0.01	0.40	16.6
<b>Age of Householder</b>							
Under 35 Years .....	7.83	4.47	2.91	0.14	0.01	0.30	16.0
35 to 59 Years .....	14.47	8.46	4.93	0.26	0.02	0.80	12.8
60 Years and Over .....	8.82	4.62	3.29	0.39	Q	0.49	15.7
<b>Household Size</b>							
1 Person .....	5.95	3.08	2.45	0.16	Q	0.26	16.3
2 to 4 Persons .....	21.34	12.26	7.43	0.54	Q	1.07	11.4
5 or More Persons .....	3.82	2.21	1.26	0.08	Q	0.26	19.1

See footnotes at end of table.

**Table 30. Total Expenditures in Midwest Region Households, 1993 (Continued)**  
(Billion Dollars)

Characteristics	Major Energy Sources <sup>1</sup>	Electricity	Natural Gas	Fuel Oil	Kerosene	Liquefied Petroleum Gas	RSE Row Factors
	0.4	0.5	0.6	1.6	2.8	1.6	
<b>East North Central Division</b> .....	22.21	12.21	8.62	0.44	Q	0.90	11.2
<b>Climate Zone<sup>2</sup></b>							
Under 2,000 CDD and							
Over 5,500 HDD .....	19.24	10.47	7.59	0.41	Q	0.73	21.8
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and							
Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>							
Single-Family .....	17.33	9.57	6.54	0.43	Q	0.75	13.8
Mobile Home .....	1.21	0.77	0.29	Q	Q	Q	55.6
Multifamily (2 or more units) .....	3.68	1.87	1.79	Q	Q	Q	19.1
<b>Heated Floorspace (square feet)</b>							
Fewer than 1,000 .....	3.64	2.00	1.44	Q	Q	Q	14.8
1,000 to 1,999 .....	7.97	4.39	3.18	0.14	0.01	0.23	14.9
2,000 or More .....	10.61	5.81	4.00	0.29	Q	0.48	12.4
<b>Ownership of Unit</b>							
Owned .....	16.97	9.49	6.27	0.40	Q	0.77	12.5
Rented .....	5.24	2.72	2.34	Q	Q	0.13	17.2
<b>Year of Construction</b>							
1939 or Before .....	7.24	3.32	3.19	0.25	Q	0.44	14.2
1940 to 1979 .....	11.68	6.87	4.32	Q	0.01	0.29	16.1
1980 or After <sup>3</sup> .....	3.30	2.02	1.11	Q	Q	0.17	30.0
<b>1993 Family Income</b>							
Less than \$10,000 .....	2.15	1.13	0.89	Q	Q	Q	23.1
\$10,000 to \$19,999 .....	4.66	2.39	2.01	Q	Q	0.13	19.1
\$20,000 to \$34,999 .....	5.48	2.94	2.15	0.12	Q	0.26	21.4
\$35,000 to \$49,999 .....	4.30	2.39	1.58	Q	Q	0.20	17.6
\$50,000 or More .....	5.62	3.35	1.99	Q	Q	0.21	17.2
<b>Below Poverty Line</b>							
100 Percent .....	2.15	1.13	0.91	Q	Q	Q	28.9
125 Percent .....	3.23	1.70	1.33	Q	Q	0.15	25.3
150 Percent .....	4.23	2.25	1.74	Q	Q	0.17	19.7
<b>Age of Householder</b>							
Under 35 Years .....	5.34	2.94	2.19	Q	Q	Q	16.9
35 to 59 Years .....	10.49	5.97	3.86	0.15	Q	0.49	15.7
60 Years and Over .....	6.38	3.30	2.56	0.23	Q	0.27	15.9
<b>Household Size</b>							
1 Person .....	4.33	2.17	1.92	Q	Q	Q	18.6
2 to 4 Persons .....	15.26	8.59	5.69	0.35	Q	0.60	14.8
5 or More Persons .....	2.62	1.45	1.01	Q	Q	0.13	21.8

See footnotes at end of table.

**Table 30. Total Expenditures in Midwest Region Households, 1993 (Continued)**  
(Billion Dollars)

Characteristics	Major Energy Sources <sup>1</sup>	Electricity	Natural Gas	Fuel Oil	Kerosene	Liquefied Petroleum Gas	RSE Row Factors
	RSE Column Factor: 0.4	0.5	0.6	1.6	2.8	1.6	
<b>West North Central Division</b> .....	8.91	5.34	2.52	0.34	Q	0.70	14.1
<b>Climate Zone<sup>2</sup></b>							
Under 2,000 CDD and							
Over 5,500 HDD .....	6.23	3.65	1.81	0.33	Q	0.44	22.5
Under 5,500 HDD .....	2.67	1.69	0.71	Q	Q	Q	48.6
2,000 CDD or More and							
Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>							
Single-Family .....	7.22	4.22	2.10	0.34	Q	0.56	15.7
Mobile Home .....	0.59	0.36	Q	Q	Q	0.14	39.4
Multifamily (2 or more units) .....	1.10	0.77	0.33	Q	Q	Q	54.1
<b>Heated Floorspace (square feet)</b>							
Fewer than 1,000 .....	1.76	1.09	0.50	Q	Q	0.15	33.1
1,000 to 1,999 .....	2.90	1.75	0.84	0.11	Q	Q	22.8
2,000 or More .....	4.25	2.50	1.18	0.22	Q	0.35	19.3
<b>Ownership of Unit</b>							
Owned .....	6.88	4.04	1.95	0.28	Q	0.60	19.5
Rented .....	2.03	1.30	0.57	Q	Q	0.10	35.3
<b>Year of Construction</b>							
1939 or Before .....	3.23	1.62	1.08	0.21	Q	0.31	26.9
1940 to 1979 .....	3.85	2.34	1.07	0.13	Q	0.30	16.5
1980 or After <sup>3</sup> .....	1.83	1.38	0.37	Q	Q	Q	39.7
<b>1993 Family Income</b>							
Less than \$10,000 .....	1.01	0.60	0.26	Q	Q	Q	49.0
\$10,000 to \$19,999 .....	1.88	1.11	0.54	0.08	Q	0.15	16.8
\$20,000 to \$34,999 .....	2.49	1.47	0.64	0.14	Q	0.25	18.4
\$35,000 to \$49,999 .....	1.93	1.21	0.51	0.08	Q	0.13	23.9
\$50,000 or More .....	1.59	0.95	0.56	Q	Q	Q	32.7
<b>Below Poverty Line</b>							
100 Percent .....	0.93	0.56	0.23	Q	Q	Q	51.9
125 Percent .....	1.57	0.95	0.37	Q	Q	0.21	36.0
150 Percent .....	2.19	1.34	0.54	Q	Q	0.24	30.8
<b>Age of Householder</b>							
Under 35 Years .....	2.49	1.53	0.72	0.07	Q	0.16	23.5
35 to 59 Years .....	3.98	2.49	1.07	0.10	Q	0.31	18.2
60 Years and Over .....	2.44	1.33	0.73	0.17	Q	Q	27.7
<b>Household Size</b>							
1 Person .....	1.63	0.91	0.52	0.10	Q	0.10	25.8
2 to 4 Persons .....	6.08	3.67	1.74	0.19	Q	0.47	14.7
5 or More Persons .....	1.20	0.76	0.25	Q	Q	0.13	34.9

<sup>1</sup> Major Energy Sources include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas.

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

<sup>3</sup> Does not include all new construction for 1993.

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

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" in *Household Energy Consumption and Expenditures 1993* 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 1993 Residential Energy Consumption Survey.

**Table 31. Electricity Consumption and Expenditures in Midwest Region Households, 1993**

Characteristics	Households Using Electricity (million)	Average per Household					Expenditures (cents per kWh)	RSE Row Factors
		Consumption			Expenditures (dollars)	Floorspace (square feet)		
		Primary	Site					
		(million Btu)	(million Btu)	(kWh)				
RSE Column Factor:	1.3	1.2	1.2	1.2	1.1	0.7	0.6	

**Midwest Region**

<b>Total Region</b> .....	23.3	95.9	31.8	9,327	753	2,170	8.1	3.7
<b>Climate Zone<sup>1</sup></b>								
Under 2,000 CDD and Over 5,500 HDD .....	19.5	92.4	30.7	8,988	726	2,144	8.1	4.8
Under 5,500 HDD .....	3.8	113.5	37.7	11,043	890	2,302	8.1	7.5
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>								
Single-Family .....	16.6	107.5	35.7	10,452	832	2,649	8.0	3.4
Mobile Home .....	1.4	98.1	32.6	9,544	797	981	8.3	9.6
Multifamily (2 or more units) .....	5.3	59.2	19.7	5,763	496	995	8.6	7.4
<b>Heated Floorspace (square feet)</b>								
Fewer than 1,000 .....	5.9	64.7	21.5	6,292	526	888	8.4	5.3
1,000 to 1,999 .....	8.2	93.6	31.1	9,104	749	1,832	8.2	4.3
2,000 or More .....	9.2	117.8	39.1	11,462	902	3,289	7.9	3.6
<b>Ownership of Unit</b>								
Owned .....	16.2	107.5	35.7	10,452	836	2,551	8.0	3.4
Rented .....	7.1	69.5	23.1	6,764	566	1,302	8.4	5.7
<b>Year of Construction</b>								
1939 or Before .....	7.4	83.9	27.9	8,163	667	2,276	8.2	4.9
1940 to 1979 .....	11.7	97.9	32.5	9,519	785	2,054	8.3	4.2
1980 or After <sup>2</sup> .....	4.2	111.7	37.1	10,861	816	2,309	7.5	6.1
<b>1993 Family Income</b>								
Less than \$10,000 .....	3.0	74.5	24.7	7,243	588	1,354	8.1	8.5
\$10,000 to \$19,999 .....	5.3	80.8	26.8	7,858	655	1,883	8.3	4.7
\$20,000 to \$34,999 .....	6.0	92.9	30.8	9,038	732	2,040	8.1	3.4
\$35,000 to \$49,999 .....	4.4	104.2	34.6	10,136	815	2,412	8.0	4.9
\$50,000 or More .....	4.6	123.4	41.0	12,005	944	2,974	7.9	4.7
<b>Below Poverty Line</b>								
100 Percent .....	2.6	81.8	27.1	7,954	651	1,408	8.2	9.1
125 Percent .....	4.0	83.7	27.8	8,137	661	1,551	8.1	6.6
150 Percent .....	5.3	84.8	28.1	8,247	673	1,590	8.2	5.5
<b>Age of Householder</b>								
Under 35 Years .....	6.6	84.1	27.9	8,178	682	1,752	8.3	4.5
35 to 59 Years .....	9.9	111.7	37.1	10,870	852	2,380	7.8	4.1
60 Years and Over .....	6.8	84.2	27.9	8,187	678	2,267	8.3	4.5
<b>Household Size</b>								
1 Person .....	6.1	59.9	19.9	5,831	503	1,556	8.6	5.8
2 to 4 Persons .....	14.9	106.2	35.2	10,327	823	2,384	8.0	3.4
5 or More Persons .....	2.3	125.3	41.6	12,184	966	2,423	7.9	4.6

See footnotes at end of table.

**Table 31. Electricity Consumption and Expenditures in Midwest Region Households, 1993 (Continued)**

Characteristics	Households Using Electricity (million)	Average per Household					Expenditures (cents per kWh)	RSE Row Factors
		Consumption			Expenditures (dollars)	Floorspace (square feet)		
		Primary	Site					
		(million Btu)	(million Btu)	(kWh)				
RSE Column Factor:	1.3	1.2	1.2	1.2	1.1	0.7	0.6	
<b>East North Central Division</b> .....	16.4	91.6	30.4	8,906	747	2,160	8.4	4.6
<b>Climate Zone<sup>1</sup></b>								
Under 2,000 CDD and Over 5,500 HDD .....	14.4	90.2	29.9	8,771	726	2,149	8.3	5.7
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>								
Single-Family .....	11.4	105.1	34.9	10,220	839	2,663	8.2	4.5
Mobile Home .....	0.9	97.3	32.3	9,466	815	1,004	8.6	12.7
Multifamily (2 or more units) .....	4.0	51.8	17.2	5,040	466	1,004	9.3	5.8
<b>Heated Floorspace (square feet)</b>								
Fewer than 1,000 .....	4.0	57.7	19.2	5,615	496	862	8.8	5.9
1,000 to 1,999 .....	5.8	91.7	30.4	8,924	763	1,828	8.6	5.2
2,000 or More .....	6.6	112.2	37.2	10,917	886	3,250	8.1	4.6
<b>Ownership of Unit</b>								
Owned .....	11.2	105.1	34.9	10,219	844	2,560	8.3	4.3
Rented .....	5.1	61.9	20.5	6,017	532	1,280	8.8	4.6
<b>Year of Construction</b>								
1939 or Before .....	4.9	82.8	27.5	8,055	677	2,280	8.4	6.4
1940 to 1979 .....	8.8	94.6	31.4	9,204	783	2,042	8.5	5.3
1980 or After <sup>2</sup> .....	2.7	97.6	32.4	9,492	757	2,327	8.0	7.5
<b>1993 Family Income</b>								
Less than \$10,000 .....	2.0	67.7	22.5	6,587	565	1,292	8.6	8.9
\$10,000 to \$19,999 .....	3.8	75.0	24.9	7,296	637	1,836	8.7	5.9
\$20,000 to \$34,999 .....	4.0	89.9	29.8	8,744	736	2,092	8.4	4.6
\$35,000 to \$49,999 .....	3.0	96.9	32.2	9,428	788	2,360	8.4	6.2
\$50,000 or More .....	3.5	119.9	39.8	11,660	943	2,900	8.1	5.8
<b>Below Poverty Line</b>								
100 Percent .....	1.8	75.9	25.2	7,382	639	1,369	8.7	9.6
125 Percent .....	2.7	77.9	25.9	7,582	641	1,484	8.5	7.7
150 Percent .....	3.5	77.3	25.6	7,518	644	1,513	8.6	6.7
<b>Age of Householder</b>								
Under 35 Years .....	4.3	78.4	26.0	7,628	683	1,779	9.0	5.3
35 to 59 Years .....	7.2	105.8	35.1	10,292	830	2,354	8.1	5.4
60 Years and Over .....	4.9	82.1	27.2	7,985	679	2,211	8.5	4.8
<b>Household Size</b>								
1 Person .....	4.4	56.9	18.9	5,531	492	1,521	8.9	7.1
2 to 4 Persons .....	10.4	102.4	34.0	9,965	828	2,398	8.3	4.4
5 or More Persons .....	1.6	117.4	39.0	11,423	929	2,390	8.1	6.0

See footnotes at end of table.

**Table 31. Electricity Consumption and Expenditures in Midwest Region Households, 1993 (Continued)**

Characteristics	Households Using Electricity (million)	Average per Household					Expenditures (cents per kWh)	RSE Row Factors
		Consumption			Expenditures (dollars)	Floorspace (square feet)		
		Primary	Site					
		(million Btu)	(million Btu)	(kWh)				
RSE Column Factor:	1.3	1.2	1.2	1.2	1.1	0.7	0.6	
<b>West North Central Division</b> .....	6.9	106.1	35.2	10,319	769	2,194	7.5	5.5
<b>Climate Zone<sup>1</sup></b>								
Under 2,000 CDD and Over 5,500 HDD .....	5.0	98.8	32.8	9,611	728	2,130	7.6	8.2
Under 5,500 HDD .....	1.9	125.0	41.5	12,161	876	2,363	7.2	6.6
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>								
Single-Family .....	5.2	112.7	37.4	10,963	816	2,617	7.4	4.5
Mobile Home .....	0.5	99.7	33.1	9,702	760	937	7.8	12.3
Multifamily (2 or more units) .....	1.3	82.1	27.2	7,986	587	969	7.4	15.2
<b>Heated Floorspace (square feet)</b>								
Fewer than 1,000 .....	1.8	80.0	26.5	7,778	592	945	7.6	8.3
1,000 to 1,999 .....	2.5	97.9	32.5	9,526	715	1,842	7.5	7.0
2,000 or More .....	2.7	131.7	43.7	12,808	942	3,384	7.4	5.6
<b>Ownership of Unit</b>								
Owned .....	5.0	112.9	37.5	10,983	817	2,532	7.4	5.0
Rented .....	2.0	89.2	29.6	8,675	650	1,358	7.5	11.0
<b>Year of Construction</b>								
1939 or Before .....	2.5	86.1	28.6	8,375	648	2,268	7.7	6.5
1940 to 1979 .....	3.0	107.5	35.7	10,457	794	2,091	7.6	5.7
1980 or After <sup>2</sup> .....	1.5	136.7	45.4	13,301	923	2,277	6.9	7.9
<b>1993 Family Income</b>								
Less than \$10,000 .....	0.9	88.7	29.5	8,632	637	1,486	7.4	16.3
\$10,000 to \$19,999 .....	1.6	94.4	31.3	9,184	699	1,995	7.6	5.1
\$20,000 to \$34,999 .....	2.0	98.9	32.8	9,621	726	1,937	7.5	4.5
\$35,000 to \$49,999 .....	1.4	120.1	39.9	11,684	874	2,526	7.5	7.0
\$50,000 or More .....	1.0	135.9	45.1	13,222	945	3,238	7.1	8.5
<b>Below Poverty Line</b>								
100 Percent .....	0.8	94.4	31.3	9,184	677	1,491	7.4	17.4
125 Percent .....	1.4	94.8	31.5	9,221	699	1,681	7.6	11.1
150 Percent .....	1.8	99.0	32.9	9,634	728	1,735	7.6	8.5
<b>Age of Householder</b>								
Under 35 Years .....	2.3	94.8	31.5	9,225	678	1,700	7.4	7.1
35 to 59 Years .....	2.7	127.4	42.3	12,390	909	2,450	7.3	5.7
60 Years and Over .....	2.0	89.3	29.6	8,688	678	2,407	7.8	9.0
<b>Household Size</b>								
1 Person .....	1.7	67.9	22.5	6,608	533	1,648	8.1	9.2
2 to 4 Persons .....	4.5	114.7	38.1	11,158	813	2,353	7.3	4.8
5 or More Persons .....	0.7	142.0	47.1	13,815	1,047	2,493	7.6	6.3

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

<sup>2</sup> Does not include all new construction for 1993.

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. • Site electricity is the amount of electricity delivered to households. Primary electricity is site electricity plus the conversion losses in the electric generation process at the utility plant. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1993* 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.

**Table 32. Natural Gas Consumption and Expenditures in Midwest Region Households, 1993**

Characteristics	Households Using Natural Gas (million)	Average per Household				Expenditures (dollars per thousand cf)	RSE Row Factors
		Consumption		Expenditures (dollars)	Floorspace (square feet)		
		(million Btu)	(thousand cf)				
RSE Column Factor:	2.6	1.0	1.0	1.0	1.1	0.4	

**Midwest Region**

<b>Total Region</b> .....	17.5	118.4	115.1	637	2,152	5.53	1.9
<b>Climate Zone:</b> <sup>1</sup>							
Under 2,000 CDD and Over 5,500 HDD .....	14.8	117.8	114.6	633	2,120	5.53	2.4
Under 5,500 HDD .....	2.6	121.6	118.3	657	2,334	5.56	6.3
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>							
Single-Family .....	12.4	130.0	126.5	696	2,618	5.51	2.1
Mobile Home .....	0.8	92.7	90.2	493	1,028	5.47	8.3
Multifamily (2 or more units) .....	4.3	89.4	86.9	491	1,009	5.65	4.3
<b>Heated Floorspace (square feet)</b>							
Fewer than 1,000 .....	4.4	79.7	77.6	437	871	5.64	4.6
1,000 to 1,999 .....	6.2	120.3	117.0	650	1,818	5.56	2.6
2,000 or More .....	6.9	141.6	137.7	754	3,280	5.48	2.7
<b>Ownership of Unit</b>							
Owned .....	12.0	127.8	124.4	687	2,551	5.53	2.4
Rented .....	5.5	97.8	95.1	528	1,288	5.55	4.3
<b>Year of Construction</b>							
1939 or Before .....	5.7	137.6	133.9	749	2,167	5.60	4.1
1940 to 1979 .....	9.0	112.7	109.7	598	2,011	5.46	2.4
1980 or After <sup>2</sup> .....	2.8	97.0	94.4	531	2,580	5.63	5.5
<b>1993 Family Income</b>							
Less than \$10,000 .....	2.1	101.8	99.0	549	1,376	5.55	5.7
\$10,000 to \$19,999 .....	4.1	116.5	113.3	628	1,864	5.54	3.5
\$20,000 to \$34,999 .....	4.4	115.5	112.3	630	1,952	5.61	3.9
\$35,000 to \$49,999 .....	3.2	121.8	118.5	659	2,389	5.57	3.6
\$50,000 or More .....	3.7	130.1	126.6	684	2,934	5.41	3.1
<b>Below Poverty Line</b>							
100 Percent .....	1.9	115.5	112.4	616	1,435	5.48	5.5
125 Percent .....	2.8	113.7	110.6	614	1,550	5.55	4.6
150 Percent .....	3.7	112.6	109.5	609	1,593	5.56	3.5
<b>Age of Householder</b>							
Under 35 Years .....	5.0	109.5	106.5	584	1,825	5.48	3.4
35 to 59 Years .....	7.5	122.1	118.8	660	2,356	5.56	2.3
60 Years and Over .....	5.0	121.6	118.3	655	2,173	5.54	3.3
<b>Household Size</b>							
1 Person .....	4.8	93.9	91.3	513	1,492	5.62	4.5
2 to 4 Persons .....	11.1	125.1	121.7	669	2,404	5.50	2.3
5 or More Persons .....	1.6	143.8	139.9	778	2,368	5.56	3.9

See footnotes at end of table.

**Table 32. Natural Gas Consumption and Expenditures in Midwest Region Households, 1993 (Continued)**

Characteristics	Households Using Natural Gas (million)	Average per Household				Expenditures (dollars per thousand cf)	RSE Row Factors
		Consumption		Expenditures (dollars)	Floorspace (square feet)		
		(million Btu)	(thousand cf)				
RSE Column Factor:	2.6	1.0	1.0	1.0	1.1	0.4	
<b>East North Central Division</b> .....	13.3	119.3	116.1	646	2,114	5.56	2.0
<b>Climate Zone:</b> <sup>1</sup>							
Under 2,000 CDD and							
Over 5,500 HDD .....	11.9	118.6	115.4	640	2,104	5.55	2.4
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and							
Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>							
Single-Family .....	9.1	132.8	129.2	715	2,618	5.53	2.2
Mobile Home .....	0.6	88.6	86.2	474	1,057	5.51	9.1
Multifamily (2 or more units) .....	3.6	90.2	87.7	498	1,009	5.68	4.7
<b>Heated Floorspace (square feet)</b>							
Fewer than 1,000 .....	3.4	77.2	75.1	426	850	5.67	5.5
1,000 to 1,999 .....	4.7	124.0	120.7	672	1,787	5.57	3.1
2,000 or More .....	5.2	142.2	138.4	763	3,224	5.51	3.1
<b>Ownership of Unit</b>							
Owned .....	8.9	130.5	126.9	705	2,534	5.55	2.6
Rented .....	4.4	97.1	94.5	527	1,274	5.58	4.7
<b>Year of Construction</b>							
1939 or Before .....	4.0	144.7	140.8	798	2,168	5.67	4.8
1940 to 1979 .....	7.2	112.5	109.4	596	1,988	5.45	2.7
1980 or After <sup>2</sup> .....	2.1	95.0	92.4	526	2,445	5.69	6.9
<b>1993 Family Income</b>							
Less than \$10,000 .....	1.6	101.6	98.8	552	1,282	5.59	6.4
\$10,000 to \$19,999 .....	3.1	118.7	115.4	641	1,796	5.55	3.8
\$20,000 to \$34,999 .....	3.3	118.8	115.6	658	2,020	5.69	4.6
\$35,000 to \$49,999 .....	2.4	123.3	120.0	669	2,324	5.58	4.3
\$50,000 or More .....	3.0	127.0	123.5	669	2,833	5.41	3.4
<b>Below Poverty Line</b>							
100 Percent .....	1.4	118.2	115.0	634	1,357	5.52	5.7
125 Percent .....	2.1	116.5	113.3	633	1,453	5.58	4.9
150 Percent .....	2.8	113.5	110.4	619	1,488	5.61	3.5
<b>Age of Householder</b>							
Under 35 Years .....	3.6	112.9	109.8	607	1,841	5.53	4.2
35 to 59 Years .....	5.8	121.8	118.5	661	2,303	5.58	2.6
60 Years and Over .....	3.9	121.7	118.4	658	2,085	5.56	3.7
<b>Household Size</b>							
1 Person .....	3.8	93.0	90.4	511	1,439	5.65	5.3
2 to 4 Persons .....	8.3	127.2	123.8	683	2,389	5.52	2.5
5 or More Persons .....	1.3	145.8	141.8	802	2,312	5.65	4.3

See footnotes at end of table.

**Table 32. Natural Gas Consumption and Expenditures in Midwest Region Households, 1993 (Continued)**

Characteristics	Households Using Natural Gas (million)	Average per Household				Expenditures (dollars per thousand cf)	RSE Row Factors
		Consumption		Expenditures (dollars)	Floorspace (square feet)		
		(million Btu)	(thousand cf)				
RSE Column Factor:	2.6	1.0	1.0	1.0	1.1	0.4	
<b>West North Central Division</b> .....	4.1	115.2	112.0	609	2,274	5.44	5.1
<b>Climate Zone:</b> <sup>1</sup>							
Under 2,000 CDD and							
Over 5,500 HDD .....	3.0	114.3	111.2	605	2,181	5.44	7.4
Under 5,500 HDD .....	1.1	117.3	114.1	618	2,516	5.42	5.6
2,000 CDD or More and							
Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>							
Single-Family .....	3.3	122.1	118.8	644	2,618	5.43	5.2
Mobile Home .....	Q	Q	Q	Q	Q	Q	NF
Multifamily (2 or more units) .....	0.7	85.2	82.9	458	1,008	5.52	10.4
<b>Heated Floorspace (square feet)</b>							
Fewer than 1,000 .....	1.1	87.9	85.5	474	939	5.54	7.5
1,000 to 1,999 .....	1.5	108.0	105.0	577	1,918	5.50	4.8
2,000 or More .....	1.6	139.4	135.6	725	3,462	5.35	5.7
<b>Ownership of Unit</b>							
Owned .....	3.1	120.2	117.0	637	2,598	5.44	5.4
Rented .....	1.1	100.7	97.9	529	1,349	5.40	7.0
<b>Year of Construction</b>							
1939 or Before .....	1.7	121.0	117.7	635	2,163	5.39	8.2
1940 to 1979 .....	1.8	113.9	110.8	607	2,103	5.47	5.0
1980 or After <sup>2</sup> .....	0.7	103.6	100.7	549	3,008	5.44	6.6
<b>1993 Family Income</b>							
Less than \$10,000 .....	0.5	102.5	99.7	539	1,688	5.41	12.3
\$10,000 to \$19,999 .....	0.9	109.1	106.2	586	2,096	5.52	7.0
\$20,000 to \$34,999 .....	1.2	106.1	103.2	552	1,761	5.34	5.5
\$35,000 to \$49,999 .....	0.8	117.2	114.0	630	2,579	5.53	6.0
\$50,000 or More .....	0.8	142.5	138.6	747	3,332	5.39	7.3
<b>Below Poverty Line</b>							
100 Percent .....	0.4	106.2	103.3	554	1,703	5.36	13.2
125 Percent .....	0.7	105.0	102.2	554	1,854	5.42	11.5
150 Percent .....	0.9	109.8	106.8	579	1,908	5.42	8.7
<b>Age of Householder</b>							
Under 35 Years .....	1.4	100.4	97.7	522	1,782	5.35	5.6
35 to 59 Years .....	1.6	123.4	120.0	656	2,546	5.47	5.4
60 Years and Over .....	1.1	121.2	117.9	646	2,480	5.48	7.4
<b>Household Size</b>							
1 Person .....	1.0	97.2	94.6	522	1,687	5.52	8.0
2 to 4 Persons .....	2.8	118.8	115.6	629	2,448	5.44	5.3
5 or More Persons .....	0.4	136.9	133.1	694	2,565	5.22	7.9

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

<sup>2</sup> Does not include all new construction for 1993.

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" in *Household Energy Consumption and Expenditures 1993* 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 F of the 1993 Residential Energy Consumption Survey.

**Table 33. Fuel Oil Consumption and Expenditures in Midwest Region Households, 1993**

Characteristics	Households Using Fuel Oil (million)	Average per Household				Expenditures (dollars per gallon)	RSE Row Factors
		Consumption		Expenditures (dollars)	Floorspace (square feet)		
		(million Btu)	(gallons)				
RSE Column Factor:	3.3	1.1	1.1	1.0	0.9	0.3	
<b>Total Region</b> .....	1.4	91.6	664	570	2,663	0.86	4.7
East North Central Division .....	0.7	94.3	682	592	2,675	0.87	7.7
West North Central Division .....	0.6	88.4	642	544	2,648	0.85	6.0
<b>Climate Zone:</b> <sup>1</sup>							
Under 2,000 CDD and							
Over 5,500 HDD .....	1.3	91.6	664	571	2,677	0.86	5.3
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and							
Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>							
Single-Family .....	1.3	92.9	673	577	2,716	0.86	4.9
Mobile Home .....	Q	Q	Q	Q	Q	Q	NF
Multifamily (2 or more units) .....	Q	Q	Q	Q	Q	Q	NF
<b>Heated Floorspace (square feet)</b>							
Fewer than 1,000 .....	Q	Q	Q	Q	Q	Q	NF
1,000 to 1,999 .....	0.5	80.4	582	520	2,046	0.89	8.2
2,000 or More .....	0.8	101.7	737	620	3,182	0.84	4.9
<b>Ownership of Unit</b>							
Owned .....	1.2	92.3	669	574	2,670	0.86	5.2
Rented .....	0.2	87.2	631	547	2,615	0.87	11.1
<b>Year of Construction</b>							
1939 or Before .....	0.7	101.9	738	635	2,672	0.86	5.4
1940 to 1979 .....	0.6	81.3	590	505	2,661	0.86	5.9
1980 or After <sup>2</sup> .....	Q	Q	Q	Q	Q	Q	NF
<b>1993 Family Income</b>							
Less than \$10,000 .....	Q	Q	Q	Q	Q	Q	NF
\$10,000 to \$19,999 .....	0.2	109.8	800	708	2,293	0.89	8.1
\$20,000 to \$34,999 .....	0.5	91.5	662	559	2,798	0.84	6.7
\$35,000 to \$49,999 .....	0.4	79.9	577	492	2,669	0.85	8.3
\$50,000 or More .....	0.2	94.8	686	554	3,347	0.81	16.6
<b>Below Poverty Line</b>							
100 Percent .....	Q	Q	Q	Q	Q	Q	NF
125 Percent .....	0.1	101.8	742	638	2,329	0.86	13.2
150 Percent .....	0.2	102.3	745	664	2,233	0.89	11.0
<b>Age of Householder</b>							
Under 35 Years .....	0.2	92.0	666	576	2,105	0.87	12.4
35 to 59 Years .....	0.5	80.0	580	496	2,792	0.86	7.5
60 Years and Over .....	0.6	101.1	733	629	2,772	0.86	8.0
<b>Household Size</b>							
1 Person .....	0.3	82.8	602	539	2,260	0.89	8.9
2 to 4 Persons .....	0.9	95.5	691	588	2,811	0.85	6.1
5 or More Persons .....	0.2	85.6	618	522	2,546	0.85	13.4

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

<sup>2</sup> Does not include all new construction for 1993.

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: • Data in the East North Central and West North Central Divisions are not presented separately due to a scarcity of data. • 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" in *Household Energy Consumption and Expenditures 1993* 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 G of the 1993 Residential Energy Consumption Survey.

**Table 34. Kerosene Consumption and Expenditures in Midwest Region Households, 1993**

Characteristics	Households Using Kerosene (million)	Average per Household				Expenditures (dollars per gallon)	RSE Row Factors
		Consumption		Expenditures (dollars)	Floorspace (square feet)		
		(million Btu)	(gallons)				
RSE Column Factor:	1.5	1.6	1.6	1.6	0.5	0.3	
<b>Total Region</b> .....	1.0	6.0	45	54	2,640	1.20	19.3
East North Central Division .....	0.9	6.1	45	54	2,608	1.19	21.7
West North Central Division .....	0.1	5.3	39	48	2,899	1.21	32.4
<b>Climate Zone:<sup>1</sup></b>							
Under 2,000 CDD and Over 5,500 HDD .....	0.7	6.5	48	57	2,896	1.19	24.2
Under 5,500 HDD .....	Q	Q	Q	44	Q	1.21	22.4
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>							
Single-Family .....	0.9	6.1	45	54	2,836	1.21	22.1
Mobile Home .....	Q	Q	Q	Q	Q	Q	NF
Multifamily (2 or more units) .....	Q	Q	Q	Q	Q	Q	NF
<b>Heated Floorspace (square feet)</b>							
Fewer than 1,000 .....	Q	Q	Q	Q	Q	Q	NF
1,000 to 1,999 .....	0.4	5.1	38	47	2,030	1.25	23.8
2,000 or More .....	0.5	Q	Q	Q	3,364	1.17	22.6
<b>Ownership of Unit</b>							
Owned .....	0.8	6.0	44	52	2,725	1.17	22.3
Rented .....	Q	Q	Q	Q	Q	Q	NF
<b>Year of Construction</b>							
1939 or Before .....	0.5	9.7	72	84	2,492	1.18	23.0
1940 to 1979 .....	0.4	1.5	11	15	2,856	1.32	23.3
1980 or After <sup>2</sup> .....	Q	7.9	58	69	Q	1.19	31.8
<b>1993 Family Income</b>							
Less than \$10,000 .....	Q	Q	Q	Q	Q	Q	NF
\$10,000 to \$19,999 .....	0.2	Q	Q	Q	2,400	1.17	51.2
\$20,000 to \$34,999 .....	Q	Q	Q	Q	1,842	1.28	21.7
\$35,000 to \$49,999 .....	0.2	2.0	15	19	2,724	1.23	13.8
\$50,000 or More .....	0.3	1.6	12	16	3,652	1.36	27.3
<b>Below Poverty Line</b>							
100 Percent .....	Q	Q	Q	Q	Q	Q	NF
125 Percent .....	0.2	Q	Q	Q	1,765	1.19	22.8
150 Percent .....	0.2	Q	Q	Q	1,733	1.16	23.2
<b>Age of Householder</b>							
Under 35 Years .....	0.2	3.9	29	Q	2,185	1.31	31.1
35 to 59 Years .....	0.6	3.3	24	31	2,704	1.27	20.0
60 Years and Over .....	0.2	Q	Q	Q	2,956	1.12	32.3
<b>Household Size</b>							
1 Person .....	Q	Q	Q	Q	Q	Q	NF
2 to 4 Persons .....	0.7	7.0	52	61	2,847	1.19	24.5
5 or More Persons .....	Q	Q	Q	Q	Q	Q	NF

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

<sup>2</sup> Does not include all new construction for 1993.

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: • Data in the East North Central and West North Central Divisions are not presented separately due to a scarcity of data. • 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" in *Household Energy Consumption and Expenditures 1993* 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 G of the 1993 Residential Energy Consumption Survey.

**Table 35. Liquefied Petroleum Gas Consumption and Expenditures in Midwest Region Households, 1993**

Characteristics	Households Using LPG (million)	Average per Household				Expenditures (dollars per gallon)	RSE Row Factors
		Consumption		Expenditures (dollars)	Floorspace (square feet)		
		(million Btu)	(gallons)				
RSE Column Factor:	3.1	1.0	1.0	0.9	1.1	0.3	

**Midwest Region**

<b>Total Region</b> .....	2.2	86.0	942	736	2,424	0.78	5.0
<b>Climate Zone:<sup>1</sup></b>							
Under 2,000 CDD and Over 5,500 HDD .....	1.6	85.3	934	721	2,435	0.77	7.7
Under 5,500 HDD .....	Q	88.1	965	782	2,394	0.81	22.2
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>							
Single-Family .....	1.7	91.6	1002	774	2,866	0.77	5.3
Mobile Home .....	0.5	68.6	751	619	872	0.82	7.7
Multifamily (2 or more units) .....	Q	Q	Q	Q	Q	Q	NF
<b>Heated Floorspace (square feet)</b>							
Fewer than 1,000 .....	0.5	70.9	777	648	927	0.83	10.6
1,000 to 1,999 .....	0.6	82.7	906	712	1,944	0.79	6.5
2,000 or More .....	1.0	95.5	1046	794	3,454	0.76	5.7
<b>Ownership of Unit</b>							
Owned .....	1.8	87.5	958	742	2,533	0.77	5.1
Rented .....	0.3	77.8	851	705	1,818	0.83	12.3
<b>Year of Construction</b>							
1939 or Before .....	1.0	91.0	997	774	2,769	0.78	6.5
1940 to 1979 .....	0.8	82.6	904	703	2,081	0.78	8.1
1980 or After <sup>2</sup> .....	0.4	80.5	881	710	2,292	0.81	13.4
<b>1993 Family Income</b>							
Less than \$10,000 .....	0.2	103.6	1135	915	1,460	0.81	12.7
\$10,000 to \$19,999 .....	0.5	64.1	702	557	1,813	0.79	8.5
\$20,000 to \$34,999 .....	0.7	82.4	903	709	2,386	0.79	8.1
\$35,000 to \$49,999 .....	0.4	95.3	1043	795	2,973	0.76	7.7
\$50,000 or More .....	0.3	105.1	1151	880	3,544	0.76	10.8
<b>Below Poverty Line</b>							
100 Percent .....	0.3	87.5	958	783	1,332	0.82	15.3
125 Percent .....	0.5	81.6	893	711	1,420	0.80	8.8
150 Percent .....	0.6	78.9	864	696	1,509	0.81	8.9
<b>Age of Householder</b>							
Under 35 Years .....	0.5	65.1	712	577	1,613	0.81	7.5
35 to 59 Years .....	1.0	93.5	1024	805	2,605	0.79	8.0
60 Years and Over .....	0.7	91.4	1001	758	2,803	0.76	8.2
<b>Household Size</b>							
1 Person .....	0.3	94.3	1033	794	1,825	0.77	8.9
2 to 4 Persons .....	1.5	86.3	945	740	2,517	0.78	7.0
5 or More Persons .....	0.4	77.9	853	674	2,581	0.79	9.6

See footnotes at end of table.

**Table 35. Liquefied Petroleum Gas Consumption and Expenditures in Midwest Region Households, 1993 (Continued)**

Characteristics	Households Using LPG (million)	Average per Household				Expenditures (dollars per gallon)	RSE Row Factors
		Consumption		Expenditures (dollars)	Floorspace (square feet)		
		(million Btu)	(gallons)				
RSE Column Factor:	3.1	1.0	1.0	0.9	1.1	0.3	
<b>East North Central Division</b> .....	1.1	96.2	1053	834	2,648	0.79	8.0
<b>Climate Zone:</b> <sup>1</sup>							
Under 2,000 CDD and Over 5,500 HDD .....	0.9	92.9	1018	805	2,571	0.79	11.3
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>							
Single-Family .....	0.8	106.4	1165	910	3,203	0.78	7.4
Mobile Home .....	Q	63.0	690	586	837	0.85	7.7
Multifamily (2 or more units) .....	Q	Q	Q	Q	Q	Q	NF
<b>Heated Floorspace (square feet)</b>							
Fewer than 1,000 .....	0.3	76.5	838	716	918	0.86	18.2
1,000 to 1,999 .....	0.3	100.6	1101	884	2,166	0.80	8.6
2,000 or More .....	0.6	103.5	1133	865	3,701	0.76	7.8
<b>Ownership of Unit</b>							
Owned .....	0.9	97.3	1066	842	2,817	0.79	7.7
Rented .....	0.2	90.2	987	788	1,721	0.80	12.6
<b>Year of Construction</b>							
1939 or Before .....	0.5	100.7	1102	875	3,089	0.79	10.4
1940 to 1979 .....	0.4	94.2	1032	811	2,084	0.79	13.1
1980 or After <sup>2</sup> .....	0.2	89.3	977	777	2,559	0.80	18.7
<b>1993 Family Income</b>							
Less than \$10,000 .....	Q	Q	Q	Q	Q	Q	NF
\$10,000 to \$19,999 .....	0.2	65.7	720	562	1,985	0.78	14.0
\$20,000 to \$34,999 .....	0.3	87.7	961	804	2,483	0.84	16.2
\$35,000 to \$49,999 .....	0.2	118.3	1295	998	3,252	0.77	7.7
\$50,000 or More .....	0.2	122.8	1344	1011	3,846	0.75	9.4
<b>Below Poverty Line</b>							
100 Percent .....	Q	Q	Q	Q	Q	Q	NF
125 Percent .....	0.2	77.5	849	686	1,309	0.81	13.9
150 Percent .....	0.2	80.5	882	720	1,288	0.82	12.7
<b>Age of Householder</b>							
Under 35 Years .....	Q	67.6	740	616	1,405	0.83	14.0
35 to 59 Years .....	0.5	111.1	1217	972	2,804	0.80	11.2
60 Years and Over .....	0.3	93.0	1018	774	3,217	0.76	8.4
<b>Household Size</b>							
1 Person .....	Q	Q	Q	Q	Q	Q	NF
2 to 4 Persons .....	0.7	94.1	1030	810	2,690	0.79	11.5
5 or More Persons .....	0.2	83.3	912	737	2,799	0.81	15.9

See footnotes at end of table.

**Table 35. Liquefied Petroleum Gas Consumption and Expenditures in Midwest Region Households, 1993 (Continued)**

Characteristics	Households Using LPG (million)	Average per Household				Expenditures (dollars per gallon)	RSE Row Factors
		Consumption		Expenditures (dollars)	Floorspace (square feet)		
		(million Btu)	(gallons)				
RSE Column Factor:	3.1	1.0	1.0	0.9	1.1	0.3	
<b>West North Central Division</b> .....	1.1	76.0	832	639	2,204	0.77	6.6
<b>Climate Zone:</b> <sup>1</sup>							
Under 2,000 CDD and Over 5,500 HDD .....	0.7	75.7	829	614	2,264	0.74	7.0
Under 5,500 HDD .....	Q	76.5	837	688	Q	0.82	23.1
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>							
Single-Family .....	0.9	77.4	848	644	2,544	0.76	7.6
Mobile Home .....	0.2	75.2	824	659	915	0.80	11.7
Multifamily (2 or more units) .....	Q	Q	Q	Q	Q	Q	NF
<b>Heated Floorspace (square feet)</b>							
Fewer than 1,000 .....	0.3	65.4	716	580	936	0.81	10.9
1,000 to 1,999 .....	0.3	68.7	752	576	1,771	0.77	14.4
2,000 or More .....	0.5	86.6	949	714	3,177	0.75	7.0
<b>Ownership of Unit</b>							
Owned .....	0.9	77.9	853	643	2,254	0.75	6.6
Rented .....	0.2	65.0	711	619	1,918	0.87	20.6
<b>Year of Construction</b>							
1939 or Before .....	0.5	80.8	885	667	2,430	0.75	7.1
1940 to 1979 .....	0.5	73.9	809	623	2,079	0.77	7.9
1980 or After <sup>2</sup> .....	Q	66.6	729	604	1,867	0.83	19.1
<b>1993 Family Income</b>							
Less than \$10,000 .....	Q	109.0	1193	944	Q	0.79	16.6
\$10,000 to \$19,999 .....	0.3	62.7	686	553	1,660	0.81	10.4
\$20,000 to \$34,999 .....	0.4	78.0	854	629	2,304	0.74	7.4
\$35,000 to \$49,999 .....	0.2	73.1	801	601	2,704	0.75	12.9
\$50,000 or More .....	Q	Q	Q	Q	Q	Q	NF
<b>Below Poverty Line</b>							
100 Percent .....	Q	101.5	1111	882	Q	0.79	12.7
125 Percent .....	0.3	84.7	927	731	1,505	0.79	11.5
150 Percent .....	0.3	77.9	853	680	1,656	0.80	12.7
<b>Age of Householder</b>							
Under 35 Years .....	0.3	63.2	692	549	1,767	0.79	8.8
35 to 59 Years .....	0.5	75.4	826	633	2,400	0.77	8.7
60 Years and Over .....	Q	89.6	981	740	2,322	0.75	16.7
<b>Household Size</b>							
1 Person .....	0.2	70.0	767	555	1,441	0.72	14.0
2 to 4 Persons .....	0.7	78.2	856	666	2,333	0.78	7.2
5 or More Persons .....	0.2	73.5	804	620	2,397	0.77	9.3

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

<sup>2</sup> Does not include all new construction for 1993.

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" in *Household Energy Consumption and Expenditures 1993* 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 D of the 1993 Residential Energy Consumption Survey.

**Table 36. Wood Consumption in Midwest Region Households,  
December 1992 Through November 1993**

Characteristics	Households Using Wood					Wood Used as Main Space-Heating Fuel					RSE Row Factors
	House- holds (mil- lions)	Consumption				House- holds (mil- lions)	Consumption				
		Total		Average per Household			Total		Average per Household		
		(quad- rillion Btu)	(million cords)	(million Btu)	(cords)		(quad- rillion Btu)	(million cords)	(million Btu)	(cords)	
RSE Column Factor:	0.7	1.0	1.0	0.7	0.7	1.4	1.7	1.7	0.8	0.8	
<b>Total Region</b> .....	4.1	0.11	5.5	27.2	1.4	0.4	0.05	2.5	129.0	6.4	21.4
East North Central Division .....	2.6	0.07	3.4	26.2	1.3	0.2	0.03	1.5	136.9	6.8	27.5
West North Central Division .....	1.5	0.04	2.1	28.9	1.4	Q	Q	Q	118.7	5.9	31.4
<b>Climate Zone<sup>1</sup></b>											
Under 2,000 CDD and Over 5,500 HDD .....	3.1	0.08	4.1	26.3	1.3	0.2	0.03	1.7	148.3	7.4	24.3
Under 5,500 HDD .....	1.0	Q	Q	30.0	1.5	Q	Q	Q	102.0	5.1	59.2
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>											
Single-Family .....	3.8	0.10	5.1	26.4	1.3	0.3	0.04	2.2	125.6	6.3	19.2
Mobile Home .....	0.2	Q	Q	Q	Q	Q	Q	Q	Q	Q	53.6
Multifamily (2 or more units) .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Heated Floorspace (square feet)</b>											
Fewer than 1,000 .....	0.2	Q	Q	Q	Q	Q	Q	Q	Q	Q	59.2
1,000 to 1,999 .....	1.1	0.02	1.0	19.3	1.0	Q	Q	Q	Q	Q	24.7
2,000 or More .....	2.8	0.08	3.8	26.7	1.3	0.2	0.03	1.5	143.5	7.2	24.0
<b>Ownership of Unit</b>											
Owned .....	3.9	0.11	5.3	27.4	1.4	0.4	0.05	2.4	132.5	6.6	22.1
Rented .....	0.2	(*)	0.2	23.2	1.2	Q	Q	Q	Q	Q	47.6
<b>Year of Construction</b>											
1939 or Before .....	0.7	0.04	2.0	53.4	2.7	0.2	0.03	1.3	147.7	7.4	28.1
1940 to 1979 .....	2.3	0.05	2.6	22.6	1.1	0.1	Q	Q	117.7	5.9	30.3
1980 or After <sup>2</sup> .....	1.0	0.02	1.0	18.6	0.9	Q	Q	Q	Q	Q	20.5
<b>1993 Family Income</b>											
Less than \$10,000 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
\$10,000 to \$19,999 .....	0.5	0.02	1.0	39.2	2.0	Q	Q	Q	Q	Q	50.2
\$20,000 to \$34,999 .....	0.7	0.02	1.2	34.5	1.7	Q	Q	Q	Q	Q	32.3
\$35,000 to \$49,999 .....	1.0	0.03	1.3	27.3	1.4	0.1	Q	Q	123.2	6.2	39.3
\$50,000 or More .....	1.9	0.04	1.8	18.9	0.9	Q	Q	Q	Q	Q	25.8
<b>Below Poverty Line</b>											
100 Percent .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
125 Percent .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
150 Percent .....	0.4	Q	Q	Q	Q	Q	Q	Q	Q	Q	62.9
<b>Age of Householder</b>											
Under 35 Years .....	0.7	Q	Q	21.1	1.1	Q	Q	Q	Q	Q	43.8
35 to 59 Years .....	2.5	0.07	3.4	27.4	1.4	0.2	0.03	1.4	119.7	6.0	20.4
60 Years and Over .....	0.9	0.03	1.4	31.2	1.6	Q	Q	Q	Q	Q	45.6
<b>Household Size</b>											
1 Person .....	0.3	Q	Q	Q	Q	Q	Q	Q	Q	Q	33.3
2 to 4 Persons .....	3.2	0.08	4.2	26.4	1.3	0.3	0.03	1.7	132.1	6.6	19.2
5 or More Persons .....	0.6	0.02	1.1	39.9	2.0	0.1	0.01	0.7	117.2	5.9	39.4

See footnotes at end of table.

**Table 36. Wood Consumption in Midwest Region Households,  
December 1992 Through November 1993 (Continued)**

Characteristics	Households Using Wood					Wood Used as Main Space-Heating Fuel					RSE Row Factors
	House- holds (mil- lions)	Consumption				House- holds (mil- lions)	Consumption				
		Total		Average per Household			Total		Average per Household		
		(quad- rillion Btu)	(million cords)	(million Btu)	(cords)		(quad- rillion Btu)	(million cords)	(million Btu)	(cords)	
RSE Column Factor:	0.7	1.0	1.0	0.7	0.7	1.4	1.7	1.7	0.8	0.8	
<b>Main Heating Fuel</b>											
Natural Gas .....	2.5	0.03	1.7	13.9	0.7	--	--	--	--	--	23.7
Electricity .....	0.6	0.01	0.5	15.2	0.8	--	--	--	--	--	34.6
Fuel Oil or Kerosene .....	0.2	Q	Q	38.0	1.9	--	--	--	--	--	55.3
Wood .....	0.4	0.05	2.5	129.0	6.4	0.4	0.05	2.5	129.0	6.4	26.2
Heating Stove .....	0.2	0.02	1.2	103.6	5.2	0.2	0.02	1.2	103.6	5.2	38.1
Fireplace .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Furnace/Other .....	0.1	0.02	1.1	193.8	9.7	0.1	0.02	1.1	193.8	9.7	24.5
LPG .....	0.3	Q	Q	23.7	1.2	--	--	--	--	--	56.0
Other .....	Q	Q	Q	Q	Q	--	--	--	--	--	NF
<b>Secondary Heating Equipment</b>											
Used .....	0.2	0.02	0.8	78.0	3.9	Q	Q	Q	Q	Q	38.2
<b>Amount of Wood Burned in Past</b>											
<b>12 Months</b>											
Less than one-half Cord .....	2.0	0.01	0.3	3.4	0.2	Q	Q	Q	Q	Q	12.7
One-half to Less than 1 .....	1.0	0.01	0.6	11.5	0.6	Q	Q	Q	Q	Q	9.6
1 to Less than 2 .....	0.2	(*)	0.2	20.9	1.0	Q	Q	Q	Q	Q	14.1
2 to 4 Cords .....	0.4	0.02	1.1	53.6	2.7	Q	Q	Q	56.9	2.8	24.6
More than 4 Cords .....	0.4	0.07	3.3	177.4	8.9	0.2	0.04	2.1	193.2	9.7	21.0
<b>Purchased Firewood</b>											
Yes .....	1.1	0.04	1.8	31.6	1.6	Q	Q	Q	Q	Q	40.2
No .....	3.0	0.08	3.8	25.5	1.3	0.3	0.03	1.6	124.0	6.2	20.7

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

<sup>2</sup> Does not include all new construction for 1993.

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

-- = Data not applicable.

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: • Data in the East North Central and West North Central Divisions are not presented separately due to a scarcity of data. • 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" in *Household Energy Consumption and Expenditures 1993* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, and C of the 1993 Residential Energy Consumption Survey.

**Table 37. Average Expenditures for Major Energy Sources in Midwest Region Households, 1993**  
(Dollars per Million Btu)

Characteristics	Major Energy Sources <sup>1</sup>	Electricity	Natural Gas	Fuel Oil	Kerosene	Liquefied Petroleum Gas	RSE Row Factors
	RSE Column Factor:	1.4	1.0	0.5	0.7	2.6	
<b>Midwest Region</b>							
<b>Total Region</b> .....	9.9	23.7	5.4	6.2	8.9	8.6	2.3
<b>Climate Zone<sup>2</sup></b>							
Under 2,000 CDD and Over 5,500 HDD .....	9.8	23.7	5.4	6.2	8.8	8.4	2.8
Under 5,500 HDD .....	10.8	23.6	5.4	Q	8.9	8.9	3.9
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>							
Single-Family .....	9.9	23.3	5.4	6.2	8.9	8.5	2.5
Mobile Home .....	12.0	24.5	5.3	Q	Q	9.0	5.3
Multifamily (2 or more units) .....	9.7	25.2	5.5	Q	Q	Q	3.9
<b>Heated Floorspace (square feet)</b>							
Fewer than 1,000 .....	10.4	24.5	5.5	Q	Q	9.1	3.2
1,000 to 1,999 .....	10.0	24.1	5.4	6.5	9.3	8.6	2.3
2,000 or More .....	9.8	23.1	5.3	6.1	8.7	8.3	2.9
<b>Ownership of Unit</b>							
Owned .....	10.0	23.4	5.4	6.2	8.7	8.5	2.3
Rented .....	9.7	24.5	5.4	6.3	Q	9.1	3.7
<b>Year of Construction</b>							
1939 or Before .....	9.0	23.9	5.4	6.2	8.7	8.5	2.8
1940 to 1979 .....	10.2	24.2	5.3	6.2	9.7	8.5	2.6
1980 or After <sup>3</sup> .....	11.3	22.0	5.5	Q	8.8	8.8	3.6
<b>1993 Family Income</b>							
Less than \$10,000 .....	9.9	23.8	5.4	Q	Q	8.8	3.9
\$10,000 to \$19,999 .....	9.6	24.4	5.4	6.5	8.7	8.7	3.9
\$20,000 to \$34,999 .....	10.0	23.8	5.5	6.1	9.5	8.6	3.0
\$35,000 to \$49,999 .....	10.2	23.6	5.4	6.2	9.1	8.3	2.6
\$50,000 or More .....	10.0	23.0	5.3	5.8	10.0	8.4	4.1
<b>Below Poverty Line</b>							
100 Percent .....	9.8	24.0	5.3	Q	Q	8.9	4.2
125 Percent .....	10.0	23.8	5.4	6.3	8.8	8.7	2.9
150 Percent .....	10.0	23.9	5.4	6.5	8.6	8.8	2.9
<b>Age of Householder</b>							
Under 35 Years .....	10.0	24.4	5.3	6.3	9.7	8.9	2.8
35 to 59 Years .....	10.2	23.0	5.4	6.2	9.4	8.6	2.7
60 Years and Over .....	9.5	24.3	5.4	6.2	8.3	8.3	3.0
<b>Household Size</b>							
1 Person .....	9.5	25.3	5.5	6.5	Q	8.4	3.3
2 to 4 Persons .....	10.0	23.4	5.3	6.2	8.8	8.6	2.7
5 or More Persons .....	10.2	23.2	5.4	6.1	Q	8.6	2.9

See footnotes at end of table.

**Table 37. Average Expenditures for Major Energy Sources in Midwest Region Households, 1993 (Continued)**  
(Dollars per Million Btu)

Characteristics	Major Energy Sources <sup>1</sup>	Electricity	Natural Gas	Fuel Oil	Kerosene	Liquefied Petroleum Gas	RSE Row Factors
	1.4	1.0	0.5	0.7	2.6	0.9	
<b>East North Central Division</b> .....	9.8	24.6	5.4	6.3	8.8	8.7	2.9
<b>Climate Zone<sup>2</sup></b>							
Under 2,000 CDD and Over 5,500 HDD .....	9.7	24.3	5.4	6.3	8.8	8.7	3.6
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>							
Single-Family .....	9.8	24.1	5.4	6.3	8.9	8.6	3.1
Mobile Home .....	12.1	25.2	5.4	Q	Q	9.3	6.5
Multifamily (2 or more units) .....	9.3	27.1	5.5	Q	Q	Q	2.7
<b>Heated Floorspace (square feet)</b>							
Fewer than 1,000 .....	10.1	25.9	5.5	Q	Q	9.4	3.4
1,000 to 1,999 .....	9.8	25.1	5.4	6.7	9.5	8.8	2.8
2,000 or More .....	9.7	23.8	5.4	6.1	8.6	8.4	3.6
<b>Ownership of Unit</b>							
Owned .....	9.9	24.2	5.4	6.3	8.6	8.7	3.1
Rented .....	9.4	25.9	5.4	Q	Q	8.7	3.1
<b>Year of Construction</b>							
1939 or Before .....	9.0	24.6	5.5	6.4	8.7	8.7	3.5
1940 to 1979 .....	10.1	24.9	5.3	6.2	9.8	8.6	3.3
1980 or After <sup>3</sup> .....	10.8	23.4	5.5	Q	Q	8.7	4.4
<b>1993 Family Income</b>							
Less than \$10,000 .....	9.6	25.1	5.4	Q	Q	Q	4.5
\$10,000 to \$19,999 .....	9.3	25.6	5.4	Q	Q	8.6	3.9
\$20,000 to \$34,999 .....	9.9	24.7	5.5	6.3	Q	9.2	3.4
\$35,000 to \$49,999 .....	9.9	24.5	5.4	6.1	Q	8.4	3.8
\$50,000 or More .....	10.1	23.7	5.3	Q	10.1	8.2	5.0
<b>Below Poverty Line</b>							
100 Percent .....	9.5	25.4	5.4	Q	Q	Q	4.9
125 Percent .....	9.6	24.8	5.4	Q	Q	8.8	3.5
150 Percent .....	9.7	25.1	5.5	Q	8.8	8.9	3.1
<b>Age of Householder</b>							
Under 35 Years .....	9.8	26.3	5.4	Q	Q	9.1	3.3
35 to 59 Years .....	10.0	23.6	5.4	6.2	9.7	8.7	3.5
60 Years and Over .....	9.4	24.9	5.4	6.3	Q	8.3	3.6
<b>Household Size</b>							
1 Person .....	9.4	26.1	5.5	Q	Q	Q	3.4
2 to 4 Persons .....	9.9	24.3	5.4	6.2	8.8	8.6	3.4
5 or More Persons .....	9.9	23.8	5.5	Q	Q	8.9	3.7

See footnotes at end of table.

**Table 37. Average Expenditures for Major Energy Sources in Midwest Region Households, 1993 (Continued)**

(Dollars per Million Btu)

Characteristics	Major Energy Sources <sup>1</sup>	Electricity	Natural Gas	Fuel Oil	Kerosene	Liquefied Petroleum Gas	RSE Row Factors
	1.4	1.0	0.5	0.7	2.6	0.9	
<b>West North Central Division</b> .....	10.4	21.8	5.3	6.1	9.0	8.4	3.4
<b>Climate Zone<sup>2</sup></b>							
Under 2,000 CDD and							
Over 5,500 HDD .....	10.1	22.2	5.3	6.1	Q	8.1	4.1
Under 5,500 HDD .....	10.9	21.1	5.3	Q	Q	9.0	4.5
2,000 CDD or More and							
Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>							
Single-Family .....	10.1	21.8	5.3	6.1	10.4	8.3	3.1
Mobile Home .....	12.0	23.0	Q	Q	Q	8.8	8.4
Multifamily (2 or more units) .....	11.3	21.6	5.4	Q	Q	Q	7.3
<b>Heated Floorspace (square feet)</b>							
Fewer than 1,000 .....	10.9	22.3	5.4	Q	Q	8.9	6.1
1,000 to 1,999 .....	10.4	22.0	5.3	6.1	Q	8.4	3.5
2,000 or More .....	10.1	21.5	5.2	6.1	Q	8.2	3.7
<b>Ownership of Unit</b>							
Owned .....	10.2	21.8	5.3	6.1	9.0	8.3	3.3
Rented .....	10.8	22.0	5.3	Q	Q	9.5	4.7
<b>Year of Construction</b>							
1939 or Before .....	9.2	22.7	5.2	6.1	Q	8.2	4.3
1940 to 1979 .....	10.6	22.2	5.3	6.3	Q	8.4	3.7
1980 or After <sup>3</sup> .....	12.5	20.3	5.3	Q	Q	9.1	3.7
<b>1993 Family Income</b>							
Less than \$10,000 .....	10.6	21.6	5.3	Q	Q	8.7	6.6
\$10,000 to \$19,999 .....	10.5	22.3	5.4	6.2	Q	8.8	4.7
\$20,000 to \$34,999 .....	10.2	22.1	5.2	6.0	Q	8.1	3.2
\$35,000 to \$49,999 .....	10.8	21.9	5.4	6.3	Q	8.2	4.1
\$50,000 or More .....	9.8	20.9	5.2	Q	Q	Q	5.2
<b>Below Poverty Line</b>							
100 Percent .....	10.7	21.6	5.2	Q	Q	8.7	6.3
125 Percent .....	10.9	22.2	5.3	Q	Q	8.6	5.3
150 Percent .....	10.8	22.2	5.3	Q	Q	8.7	4.2
<b>Age of Householder</b>							
Under 35 Years .....	10.3	21.6	5.2	6.1	Q	8.7	3.7
35 to 59 Years .....	10.7	21.5	5.3	6.2	Q	8.4	3.4
60 Years and Over .....	9.8	22.9	5.3	6.2	Q	8.3	5.0
<b>Household Size</b>							
1 Person .....	9.9	23.6	5.4	6.3	Q	7.9	4.9
2 to 4 Persons .....	10.4	21.4	5.3	6.2	8.8	8.5	4.2
5 or More Persons .....	11.0	22.2	5.1	Q	Q	8.4	3.4

<sup>1</sup> Major Energy Sources include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas.

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

<sup>3</sup> Does not include all new construction for 1993.

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" in *Household Energy Consumption and Expenditures 1993* 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 1993 Residential Energy Consumption Survey.

**Table 38. Total Consumption and Expenditures by End Uses in Midwest Region Households, 1993**

Characteristics	Space Heating		Air Conditioning		Water Heating		Refrigerators		Appliances		RSE Row Factors
	Consumption (trillion Btu)	Expenditures (billion dollars)	Consumption (trillion Btu)	Expenditures (billion dollars)	Consumption (trillion Btu)	Expenditures (billion dollars)	Consumption (trillion Btu)	Expenditures (billion dollars)	Consumption (trillion Btu)	Expenditures (billion dollars)	
	1.0 <sup>1</sup>	0.9 <sup>1</sup>	1.3 <sup>1</sup>	1.3 <sup>1</sup>	0.9 <sup>1</sup>	1.0 <sup>1</sup>	0.9 <sup>1</sup>	1.0 <sup>1</sup>	0.9 <sup>1</sup>	0.9 <sup>1</sup>	

**Midwest Region**

<b>Total Region</b> .....	1,923.4	12.09	79.8	1.90	522.6	4.06	105.1	2.59	498.5	10.48	3.3
<b>Climate Zone<sup>2</sup></b>											
Under 2,000 CDD and Over 5,500 HDD .....	1,611.1	9.98	57.9	1.38	437.7	3.37	85.6	2.11	413.6	8.63	9.0
Under 5,500 HDD .....	312.3	2.12	21.9	0.51	84.9	0.69	19.6	0.48	84.9	1.85	37.0
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>											
Single-Family .....	1,560.5	9.68	62.8	1.47	380.9	2.94	82.6	1.99	401.1	8.46	5.0
Mobile Home .....	83.6	0.63	6.3	0.16	25.3	0.29	4.9	0.12	28.9	0.60	19.2
Multifamily (2 or more units) .....	279.3	1.79	10.7	0.27	116.4	0.83	17.6	0.48	68.5	1.42	9.8
<b>Heated Floorspace (square feet)</b>											
Fewer than 1,000 .....	301.7	2.04	13.0	0.31	107.3	0.91	20.6	0.53	78.1	1.59	7.8
1,000 to 1,999 .....	666.8	4.23	25.7	0.63	187.3	1.41	36.0	0.91	173.7	3.68	5.9
2,000 or More .....	954.9	5.82	41.1	0.95	228.0	1.74	48.5	1.15	246.7	5.20	5.4
<b>Ownership of Unit</b>											
Owned .....	1,484.3	9.32	64.2	1.53	366.5	2.90	79.4	1.92	388.3	8.18	4.6
Rented .....	439.1	2.77	15.6	0.37	156.1	1.16	25.8	0.67	110.2	2.30	8.6
<b>Year of Construction</b>											
1939 or Before .....	780.3	4.69	15.6	0.37	169.7	1.31	32.8	0.81	158.5	3.28	7.8
1940 to 1979 .....	910.8	5.72	42.9	1.06	260.8	2.00	54.3	1.37	250.3	5.39	6.1
1980 or After <sup>3</sup> .....	232.3	1.68	21.3	0.48	92.1	0.75	17.9	0.41	89.7	1.81	12.5
<b>1993 Family Income</b>											
Less than \$10,000 .....	203.3	1.42	5.1	0.12	55.3	0.44	11.2	0.28	44.1	0.90	10.6
\$10,000 to \$19,999 .....	446.0	2.77	11.4	0.27	100.4	0.84	23.0	0.59	97.3	2.06	6.7
\$20,000 to \$34,999 .....	490.4	3.06	19.9	0.48	131.6	1.04	27.0	0.65	130.7	2.74	6.9
\$35,000 to \$49,999 .....	364.6	2.29	17.2	0.41	108.7	0.86	19.8	0.48	102.4	2.19	7.2
\$50,000 or More .....	419.1	2.56	26.2	0.61	126.5	0.88	24.1	0.58	124.0	2.59	8.3
<b>Below Poverty Line</b>											
100 Percent .....	190.3	1.26	4.5	0.11	59.0	0.48	10.3	0.26	48.9	0.98	12.9
125 Percent .....	296.6	1.98	7.1	0.17	86.3	0.71	16.2	0.40	75.5	1.53	10.3
150 Percent .....	393.8	2.63	10.0	0.23	113.4	0.95	21.8	0.55	100.3	2.05	7.7
<b>Age of Householder</b>											
Under 35 Years .....	449.6	2.76	20.5	0.51	159.4	1.22	25.3	0.64	131.5	2.70	7.1
35 to 59 Years .....	828.4	5.26	39.7	0.91	252.2	1.98	47.5	1.14	249.2	5.18	5.9
60 Years and Over .....	645.4	4.07	19.6	0.47	111.0	0.86	32.3	0.81	117.8	2.60	7.2
<b>Household Size</b>											
1 Person .....	434.6	2.83	13.0	0.32	85.1	0.64	22.7	0.60	69.6	1.56	7.6
2 to 4 Persons .....	1,282.9	7.99	58.5	1.39	361.8	2.80	72.0	1.74	356.0	7.43	4.4
5 or More Persons .....	205.9	1.28	8.3	0.19	75.6	0.62	10.4	0.25	72.9	1.49	9.6

See footnotes at end of table.

**Table 38. Total Consumption and Expenditures by End Uses in Midwest Region Households, 1993 (Continued)**

Characteristics	Space Heating		Air Conditioning		Water Heating		Refrigerators		Appliances		RSE Row Factors
	Consumption (trillion Btu)	Expenditures (billion dollars)	Consumption (trillion Btu)	Expenditures (billion dollars)	Consumption (trillion Btu)	Expenditures (billion dollars)	Consumption (trillion Btu)	Expenditures (billion dollars)	Consumption (trillion Btu)	Expenditures (billion dollars)	
	1.0 <sup>1</sup>	0.9 <sup>1</sup>	1.3 <sup>1</sup>	1.3 <sup>1</sup>	0.9 <sup>1</sup>	1.0 <sup>1</sup>	0.9 <sup>1</sup>	1.0 <sup>1</sup>	0.9 <sup>1</sup>	0.9 <sup>1</sup>	
<b>East North Central Division</b> .....	1,408.4	8.69	50.4	1.26	385.9	2.84	73.5	1.88	351.0	7.55	4.0
<b>Climate Zone<sup>2</sup></b>											
Under 2,000 CDD and											
Over 5,500 HDD .....	1,228.9	7.51	42.4	1.04	344.8	2.50	64.3	1.63	310.9	6.55	10.7
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and											
Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>											
Single-Family .....	1,122.5	6.88	39.6	0.97	275.6	2.03	56.8	1.42	278.7	6.02	6.6
Mobile Home .....	56.3	0.41	4.0	0.10	16.8	0.19	3.4	0.09	19.4	0.41	26.3
Multifamily (2 or more units) .....	229.5	1.40	6.8	0.18	93.6	0.61	13.3	0.38	52.9	1.11	10.3
<b>Heated Floorspace (square feet)</b>											
Fewer than 1,000 .....	212.1	1.39	7.8	0.19	74.9	0.60	14.2	0.39	50.5	1.07	8.4
1,000 to 1,999 .....	502.9	3.14	17.3	0.45	141.0	1.01	25.2	0.66	125.3	2.71	7.3
2,000 or More .....	693.4	4.16	25.3	0.62	170.1	1.23	34.0	0.83	175.3	3.77	5.9
<b>Ownership of Unit</b>											
Owned .....	1,073.0	6.67	41.1	1.02	268.4	2.04	54.9	1.37	272.9	5.87	5.1
Rented .....	335.4	2.02	9.3	0.24	117.5	0.80	18.6	0.51	78.2	1.68	7.9
<b>Year of Construction</b>											
1939 or Before .....	550.7	3.32	9.3	0.23	119.0	0.89	22.2	0.56	105.7	2.23	8.2
1940 to 1979 .....	697.2	4.30	29.7	0.76	201.9	1.47	40.1	1.05	187.0	4.11	8.0
1980 or After <sup>3</sup> .....	160.4	1.07	11.5	0.27	65.0	0.48	11.1	0.27	58.3	1.20	14.7
<b>1993 Family Income</b>											
Less than \$10,000 .....	142.2	0.95	2.6	0.07	41.0	0.29	7.5	0.20	30.3	0.64	11.7
\$10,000 to \$19,999 .....	336.3	2.03	6.7	0.17	72.9	0.58	16.3	0.44	66.2	1.44	9.2
\$20,000 to \$34,999 .....	344.9	2.13	12.2	0.32	92.1	0.68	18.4	0.46	88.3	1.89	8.8
\$35,000 to \$49,999 .....	262.0	1.61	9.9	0.25	79.6	0.59	13.0	0.33	69.4	1.52	9.1
\$50,000 or More .....	323.0	1.97	19.1	0.46	100.3	0.69	18.3	0.45	96.8	2.06	9.9
<b>Below Poverty Line</b>											
100 Percent .....	137.4	0.86	2.2	0.06	44.9	0.33	7.0	0.18	35.2	0.72	14.4
125 Percent .....	209.1	1.33	3.5	0.09	62.8	0.47	10.9	0.28	51.4	1.06	11.9
150 Percent .....	272.6	1.75	4.9	0.12	80.4	0.62	14.4	0.38	65.2	1.35	9.2
<b>Age of Householder</b>											
Under 35 Years .....	318.2	1.91	12.1	0.33	112.2	0.81	16.9	0.46	86.4	1.84	8.4
35 to 59 Years .....	616.6	3.84	25.4	0.61	189.7	1.41	33.5	0.83	180.3	3.81	7.5
60 Years and Over .....	473.6	2.95	13.0	0.33	84.0	0.62	23.0	0.59	84.3	1.89	8.5
<b>Household Size</b>											
1 Person .....	322.2	2.06	8.3	0.21	64.1	0.46	16.4	0.45	50.0	1.15	10.3
2 to 4 Persons .....	938.6	5.72	37.3	0.93	266.2	1.96	50.3	1.26	251.6	5.38	5.8
5 or More Persons .....	147.6	0.90	4.9	0.11	55.7	0.42	6.8	0.17	49.5	1.02	11.2

See footnotes at end of table.

**Table 38. Total Consumption and Expenditures by End Uses in Midwest Region Households, 1993 (Continued)**

Characteristics	Space Heating		Air Conditioning		Water Heating		Refrigerators		Appliances		RSE Row Factors
	Consumption (trillion Btu)	Expenditures (billion dollars)	Consumption (trillion Btu)	Expenditures (billion dollars)	Consumption (trillion Btu)	Expenditures (billion dollars)	Consumption (trillion Btu)	Expenditures (billion dollars)	Consumption (trillion Btu)	Expenditures (billion dollars)	
	1.0 <sup>1</sup>	0.9 <sup>1</sup>	1.3 <sup>1</sup>	1.3 <sup>1</sup>	0.9 <sup>1</sup>	1.0 <sup>1</sup>	0.9 <sup>1</sup>	1.0 <sup>1</sup>	0.9 <sup>1</sup>	0.9 <sup>1</sup>	
<b>West North Central Division</b> .....	515.0	3.40	29.4	0.64	136.7	1.22	31.7	0.71	147.5	2.93	4.7
<b>Climate Zone<sup>2</sup></b>											
Under 2,000 CDD and Over 5,500 HDD .....	382.2	2.47	15.5	0.34	92.9	0.87	21.2	0.48	102.7	2.08	15.5
Under 5,500 HDD .....	132.9	0.94	13.8	0.30	43.8	0.35	10.5	0.23	44.8	0.85	29.7
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>											
Single-Family .....	438.0	2.80	23.1	0.50	105.3	0.91	25.8	0.58	122.3	2.44	6.7
Mobile Home .....	27.2	0.22	2.3	0.05	8.5	0.09	1.5	0.04	9.5	0.19	21.4
Multifamily (2 or more units) .....	49.8	0.39	3.9	0.09	22.9	0.22	4.3	0.10	15.6	0.30	24.0
<b>Heated Floorspace (square feet)</b>											
Fewer than 1,000 .....	89.6	0.66	5.2	0.12	32.4	0.31	6.4	0.15	27.6	0.53	16.1
1,000 to 1,999 .....	164.0	1.09	8.4	0.19	46.3	0.40	10.8	0.25	48.4	0.97	9.0
2,000 or More .....	261.5	1.66	15.7	0.34	57.9	0.51	14.5	0.32	71.4	1.43	12.0
<b>Ownership of Unit</b>											
Owned .....	411.3	2.65	23.1	0.50	98.1	0.86	24.5	0.55	115.5	2.31	9.4
Rented .....	103.7	0.75	6.3	0.14	38.6	0.36	7.2	0.16	32.0	0.62	20.5
<b>Year of Construction</b>											
1939 or Before .....	229.6	1.37	6.4	0.14	50.6	0.43	10.6	0.24	52.8	1.05	17.0
1940 to 1979 .....	213.5	1.42	13.3	0.30	58.9	0.52	14.2	0.32	63.3	1.28	7.0
1980 or After <sup>3</sup> .....	71.9	0.61	9.7	0.20	27.2	0.27	6.8	0.15	31.3	0.61	20.5
<b>1993 Family Income</b>											
Less than \$10,000 .....	61.1	0.46	2.5	0.05	14.3	0.14	3.7	0.08	13.8	0.27	19.2
\$10,000 to \$19,999 .....	109.7	0.75	4.7	0.10	27.4	0.26	6.7	0.15	31.1	0.62	7.6
\$20,000 to \$34,999 .....	145.6	0.93	7.7	0.17	39.6	0.36	8.6	0.19	42.4	0.84	10.3
\$35,000 to \$49,999 .....	102.6	0.68	7.4	0.16	29.1	0.26	6.8	0.16	32.9	0.67	11.2
\$50,000 or More .....	96.1	0.59	7.1	0.15	26.2	0.19	5.9	0.13	27.2	0.53	16.7
<b>Below Poverty Line</b>											
100 Percent .....	52.9	0.40	2.3	0.05	14.1	0.14	3.2	0.07	13.6	0.26	21.5
125 Percent .....	87.6	0.65	3.7	0.08	23.5	0.24	5.3	0.12	24.0	0.47	16.3
150 Percent .....	121.2	0.88	5.1	0.11	33.1	0.33	7.4	0.17	35.1	0.69	12.9
<b>Age of Householder</b>											
Under 35 Years .....	131.3	0.86	8.5	0.19	47.2	0.41	8.4	0.19	45.1	0.85	11.5
35 to 59 Years .....	211.8	1.42	14.3	0.31	62.5	0.57	13.9	0.31	68.9	1.37	9.3
60 Years and Over .....	171.9	1.13	6.6	0.15	27.0	0.24	9.3	0.22	33.5	0.71	13.2
<b>Household Size</b>											
1 Person .....	112.4	0.76	4.7	0.11	21.1	0.18	6.3	0.15	19.6	0.42	11.0
2 to 4 Persons .....	344.3	2.26	21.2	0.45	95.6	0.84	21.7	0.48	104.4	2.05	5.6
5 or More Persons .....	58.3	0.38	3.4	0.07	20.0	0.20	3.7	0.08	23.4	0.47	18.4

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

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

<sup>3</sup> Does not include all new construction for 1993.

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.

• Consumption and Expenditures data are for major energy sources which include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas. • See "Glossary" in *Household Energy Consumption and Expenditures 1993* 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 1993 Residential Energy Consumption Survey.

**Table 39. Consumption by End Uses, per Midwest Region Households, 1993**

Characteristics	All Uses		Space Heating		Air Conditioning		Water Heating		Refrigerator		Appliances		RSE Row Factors
	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	
	1.2	0.7	1.2	1.0 <sup>1</sup>	1.5	1.2 <sup>1</sup>	1.2	0.8 <sup>1</sup>	1.2	0.6 <sup>1</sup>	1.2	0.7 <sup>1</sup>	
<b>Midwest Region</b>													
<b>Total Region</b> .....	23.3	134.3	23.2	82.8	16.4	4.9	23.3	22.4	23.3	4.5	23.3	21.4	3.3
<b>Climate Zone<sup>2</sup></b>													
Under 2,000 CDD and Over 5,500 HDD .....	19.5	134.0	19.4	83.1	13.2	4.4	19.4	22.5	19.5	4.4	19.5	21.3	5.3
Under 5,500 HDD .....	3.8	136.0	3.8	81.5	3.2	6.9	3.8	22.1	3.8	5.1	3.8	22.1	16.6
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>													
Single-Family .....	16.6	150.1	16.5	94.3	11.6	5.4	16.6	23.0	16.6	5.0	16.6	24.2	3.0
Mobile Home .....	1.4	105.3	1.4	59.7	1.1	6.0	1.4	17.9	1.4	3.5	1.4	20.4	11.2
Multifamily (2 or more units) .....	5.3	92.7	5.3	52.9	3.7	2.9	5.3	21.9	5.3	3.3	5.3	12.9	7.4
<b>Heated Floorspace (square feet)</b>													
Fewer than 1,000 .....	5.9	88.6	5.8	51.7	3.9	3.3	5.9	18.3	5.9	3.5	5.9	13.3	6.5
1,000 to 1,999 .....	8.2	132.8	8.2	81.4	5.7	4.5	8.2	22.8	8.2	4.4	8.2	21.2	3.9
2,000 or More .....	9.2	164.8	9.2	103.8	6.8	6.0	9.2	24.8	9.2	5.3	9.2	26.8	3.6
<b>Ownership of Unit</b>													
Owned .....	16.2	147.1	16.1	91.9	11.8	5.4	16.2	22.6	16.2	4.9	16.2	24.0	3.2
Rented .....	7.1	105.1	7.1	62.1	4.6	3.4	7.1	22.0	7.1	3.6	7.1	15.5	6.9
<b>Year of Construction</b>													
1939 or Before .....	7.4	156.2	7.4	106.1	4.1	3.9	7.4	22.9	7.4	4.4	7.4	21.4	5.4
1940 to 1979 .....	11.7	129.5	11.7	77.8	8.7	4.9	11.7	22.2	11.7	4.6	11.7	21.3	3.9
1980 or After <sup>3</sup> .....	4.2	109.0	4.2	55.9	3.7	5.8	4.2	22.2	4.2	4.3	4.2	21.6	9.6
<b>1993 Family Income</b>													
Less than \$10,000 .....	3.0	107.9	2.9	69.1	1.7	3.0	3.0	18.7	3.0	3.8	3.0	14.9	7.8
\$10,000 to \$19,999 .....	5.3	126.8	5.3	83.6	3.3	3.5	5.3	18.8	5.3	4.3	5.3	18.2	5.0
\$20,000 to \$34,999 .....	6.0	132.8	6.0	82.0	4.3	4.6	6.0	21.9	6.0	4.5	6.0	21.7	4.2
\$35,000 to \$49,999 .....	4.4	138.6	4.4	82.5	3.4	5.1	4.4	24.7	4.4	4.5	4.4	23.2	5.0
\$50,000 or More .....	4.6	158.1	4.5	92.2	3.7	7.0	4.6	27.8	4.6	5.3	4.6	27.2	5.3
<b>Below Poverty Line</b>													
100 Percent .....	2.6	120.5	2.6	73.7	1.3	3.4	2.6	22.7	2.6	3.9	2.6	18.8	8.2
125 Percent .....	4.0	120.2	4.0	74.3	2.2	3.2	4.0	21.5	4.0	4.0	4.0	18.8	6.8
150 Percent .....	5.3	119.8	5.3	74.2	3.0	3.3	5.3	21.3	5.3	4.1	5.3	18.8	5.0
<b>Age of Householder</b>													
Under 35 Years .....	6.6	120.0	6.5	68.9	4.6	4.5	6.5	24.4	6.6	3.9	6.6	20.1	5.5
35 to 59 Years .....	9.9	142.7	9.9	83.8	6.9	5.7	9.9	25.4	9.9	4.8	9.9	25.1	3.8
60 Years and Over .....	6.8	135.8	6.8	94.8	5.0	3.9	6.8	16.3	6.8	4.7	6.8	17.3	4.4
<b>Household Size</b>													
1 Person .....	6.1	102.0	6.1	71.3	4.2	3.1	6.1	13.9	6.1	3.7	6.1	11.4	5.7
2 to 4 Persons .....	14.9	143.1	14.9	86.3	10.8	5.4	14.9	24.3	14.9	4.8	14.9	23.9	2.7
5 or More Persons .....	2.3	163.1	2.3	90.8	1.4	5.8	2.3	33.1	2.3	4.6	2.3	31.9	6.2

See footnotes at end of table.

**Table 39. Consumption by End Uses, per Midwest Region Households, 1993 (Continued)**

Characteristics	All Uses		Space Heating		Air Conditioning		Water Heating		Refrigerator		Appliances		RSE Row Factors
	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	
	RSE Column Factor:	1.2	0.7	1.2	1.0 <sup>1</sup>	1.5	1.2 <sup>1</sup>	1.2	0.8 <sup>1</sup>	1.2	0.6 <sup>1</sup>	1.2	
<b>East North Central Division</b>	16.4	138.8	16.3	86.3	10.8	4.7	16.4	23.6	16.4	4.5	16.4	21.5	3.8
<b>Climate Zone<sup>2</sup></b>													
Under 2,000 CDD and Over 5,500 HDD .....	14.4	138.0	14.4	85.4	9.4	4.5	14.4	23.9	14.4	4.5	14.4	21.5	5.8
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>													
Single-Family .....	11.4	155.6	11.4	98.6	7.5	5.3	11.4	24.2	11.4	5.0	11.4	24.5	3.8
Mobile Home .....	0.9	105.7	0.9	59.6	0.6	6.5	0.9	17.7	0.9	3.6	0.9	20.6	14.6
Multifamily (2 or more units) .....	4.0	98.8	4.0	57.7	2.6	2.6	4.0	23.3	4.0	3.3	4.0	13.2	7.7
<b>Heated Floorspace (square feet)</b>													
Fewer than 1,000 .....	4.0	89.0	4.0	53.0	2.5	3.1	4.0	18.5	4.0	3.5	4.0	12.5	8.2
1,000 to 1,999 .....	5.8	141.0	5.8	87.4	3.7	4.7	5.8	24.5	5.8	4.4	5.8	21.8	4.9
2,000 or More .....	6.6	167.4	6.5	105.9	4.6	5.5	6.6	25.9	6.6	5.2	6.6	26.7	4.1
<b>Ownership of Unit</b>													
Owned .....	11.2	152.1	11.2	95.5	7.7	5.3	11.2	23.9	11.2	4.9	11.2	24.3	3.6
Rented .....	5.1	109.4	5.1	66.1	3.1	3.0	5.1	23.0	5.1	3.6	5.1	15.3	7.1
<b>Year of Construction</b>													
1939 or Before .....	4.9	164.5	4.9	113.1	2.4	3.8	4.9	24.3	4.9	4.5	4.9	21.5	6.4
1940 to 1979 .....	8.8	131.6	8.8	79.4	6.2	4.8	8.8	23.0	8.8	4.6	8.8	21.3	5.0
1980 or After <sup>3</sup> .....	2.7	115.0	2.7	60.3	2.2	5.2	2.7	24.4	2.7	4.2	2.7	21.9	9.1
<b>1993 Family Income</b>													
Less than \$10,000 .....	2.0	111.3	2.0	71.4	1.0	2.5	2.0	20.4	2.0	3.8	2.0	15.1	9.4
\$10,000 to \$19,999 .....	3.8	132.6	3.8	89.5	2.0	3.3	3.8	19.4	3.8	4.3	3.8	17.6	6.3
\$20,000 to \$34,999 .....	4.0	138.9	4.0	86.5	2.7	4.5	4.0	23.0	4.0	4.6	4.0	22.1	5.3
\$35,000 to \$49,999 .....	3.0	143.0	3.0	86.4	2.2	4.4	3.0	26.2	3.0	4.3	3.0	22.9	6.0
\$50,000 or More .....	3.5	157.1	3.5	91.2	2.8	6.7	3.5	28.3	3.5	5.1	3.5	27.3	6.2
<b>Below Poverty Line</b>													
100 Percent .....	1.8	128.0	1.8	77.5	0.7	3.1	1.8	25.3	1.8	4.0	1.8	19.9	8.8
125 Percent .....	2.7	127.4	2.7	78.9	1.2	2.9	2.7	23.7	2.7	4.1	2.7	19.4	8.0
150 Percent .....	3.5	125.1	3.5	78.3	1.7	3.0	3.5	23.0	3.5	4.1	3.5	18.6	5.4
<b>Age of Householder</b>													
Under 35 Years .....	4.3	127.0	4.3	74.3	2.8	4.4	4.3	26.1	4.3	3.9	4.3	20.1	6.1
35 to 59 Years .....	7.2	145.3	7.2	86.0	4.7	5.4	7.2	26.4	7.2	4.7	7.2	25.1	4.8
60 Years and Over .....	4.9	139.5	4.9	97.5	3.3	3.9	4.9	17.3	4.9	4.7	4.9	17.3	5.0
<b>Household Size</b>													
1 Person .....	4.4	104.3	4.4	73.5	2.9	2.9	4.4	14.5	4.4	3.7	4.4	11.3	7.6
2 to 4 Persons .....	10.4	148.8	10.4	90.5	7.1	5.3	10.4	25.7	10.4	4.8	10.4	24.2	3.3
5 or More Persons .....	1.6	169.5	1.6	95.0	0.8	5.8	1.6	35.7	1.6	4.3	1.6	31.7	7.5

See footnotes at end of table.

**Table 39. Consumption by End Uses, per Midwest Region Households, 1993 (Continued)**

Characteristics	All Uses		Space Heating		Air Conditioning		Water Heating		Refrigerator		Appliances		RSE Row Factors
	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	
	1.2	0.7	1.2	1.0 <sup>1</sup>	1.5	1.2 <sup>1</sup>	1.2	0.8 <sup>1</sup>	1.2	0.6 <sup>1</sup>	1.2	0.7 <sup>1</sup>	
<b>West North Central Division</b>	6.9	123.8	6.9	74.5	5.6	5.2	6.9	19.7	6.9	4.6	6.9	21.2	5.6
<b>Climate Zone<sup>2</sup></b>													
Under 2,000 CDD and Over 5,500 HDD .....	5.0	122.4	5.0	76.5	3.8	4.0	5.0	18.5	5.0	4.2	5.0	20.5	10.6
Under 5,500 HDD .....	1.9	127.4	1.9	69.4	1.8	7.7	1.9	22.7	1.9	5.4	1.9	23.2	15.6
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>													
Single-Family .....	5.2	138.1	5.2	85.0	4.1	5.6	5.2	20.4	5.2	5.0	5.2	23.6	4.8
Mobile Home .....	0.5	104.6	0.5	60.0	0.4	5.3	0.5	18.1	0.5	3.3	0.5	20.2	13.4
Multifamily (2 or more units) .....	1.3	74.0	1.3	38.2	1.1	3.6	1.3	17.5	1.3	3.3	1.3	12.0	17.3
<b>Heated Floorspace (square feet)</b>													
Fewer than 1,000 .....	1.8	87.7	1.8	49.1	1.4	3.8	1.8	17.6	1.8	3.5	1.8	15.0	11.0
1,000 to 1,999 .....	2.5	113.4	2.4	67.3	2.0	4.2	2.5	18.9	2.5	4.4	2.5	19.8	5.7
2,000 or More .....	2.7	158.4	2.7	98.6	2.3	7.0	2.6	21.9	2.7	5.4	2.7	26.9	7.8
<b>Ownership of Unit</b>													
Owned .....	5.0	135.8	4.9	83.7	4.1	5.6	4.9	19.9	5.0	4.9	5.0	23.3	6.4
Rented .....	2.0	93.9	2.0	51.9	1.5	4.2	2.0	19.3	2.0	3.6	2.0	16.0	15.5
<b>Year of Construction</b>													
1939 or Before .....	2.5	139.9	2.5	92.3	1.6	3.9	2.5	20.2	2.5	4.3	2.5	21.1	10.5
1940 to 1979 .....	3.0	123.0	2.9	72.9	2.5	5.2	2.9	20.0	3.0	4.8	3.0	21.4	5.1
1980 or After <sup>3</sup> .....	1.5	98.4	1.5	48.2	1.5	6.7	1.5	18.2	1.5	4.6	1.5	21.0	21.2
<b>1993 Family Income</b>													
Less than \$10,000 .....	0.9	100.7	0.9	64.4	0.7	3.5	0.9	15.1	0.9	3.9	0.9	14.6	14.3
\$10,000 to \$19,999 .....	1.6	112.9	1.6	69.6	1.2	3.8	1.6	17.2	1.6	4.2	1.6	19.5	7.2
\$20,000 to \$34,999 .....	2.0	120.7	2.0	72.9	1.6	4.7	2.0	19.6	2.0	4.3	2.0	21.0	6.8
\$35,000 to \$49,999 .....	1.4	129.1	1.4	74.0	1.2	6.4	1.4	21.1	1.4	4.9	1.4	23.8	8.4
\$50,000 or More .....	1.0	161.6	1.0	95.5	0.9	7.9	1.0	26.1	1.0	5.8	1.0	27.1	10.8
<b>Below Poverty Line</b>													
100 Percent .....	0.8	104.6	0.8	65.4	0.6	3.7	0.8	17.1	0.8	3.9	0.8	16.5	17.0
125 Percent .....	1.4	106.1	1.3	65.2	1.0	3.6	1.4	17.3	1.4	3.9	1.4	17.7	12.2
150 Percent .....	1.8	109.8	1.8	66.4	1.3	3.8	1.8	18.0	1.8	4.0	1.8	19.1	10.1
<b>Age of Householder</b>													
Under 35 Years .....	2.3	106.6	2.2	58.6	1.8	4.7	2.2	21.0	2.3	3.7	2.3	20.0	10.0
35 to 59 Years .....	2.7	135.9	2.7	77.9	2.2	6.4	2.7	22.8	2.7	5.1	2.7	25.2	6.6
60 Years and Over .....	2.0	126.7	2.0	88.0	1.6	4.1	2.0	13.8	2.0	4.8	2.0	17.1	8.4
<b>Household Size</b>													
1 Person .....	1.7	96.2	1.7	65.9	1.3	3.6	1.7	12.3	1.7	3.7	1.7	11.5	8.0
2 to 4 Persons .....	4.5	130.1	4.5	76.7	3.8	5.6	4.5	21.2	4.5	4.8	4.5	23.1	4.0
5 or More Persons .....	0.7	149.5	0.7	81.8	0.6	5.9	0.7	27.4	0.7	5.0	0.7	32.1	11.0

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

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

<sup>3</sup> Does not include all new construction for 1993.

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.

• Consumption and Expenditures data are for major energy sources which include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas. • See "Glossary" in *Household Energy Consumption and Expenditures 1993* 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 1993 Residential Energy Consumption Survey.

**Table 40. Expenditures by End Uses, per Midwest Region Households, 1993**

Characteristics	All Uses		Space Heating		Air Conditioning		Water Heating		Refrigerators		Appliances		RSE Row Factors
	Households (million)	Expenditures (dollars)	Households (million)	Expenditures (dollars)	Households (million)	Expenditures (dollars)	Households (million)	Expenditures (dollars)	Households (million)	Expenditures (dollars)	Households (million)	Expenditures (dollars)	
RSE Column Factor:	1.2	0.6	1.2	0.7 <sup>1</sup>	1.6	1.2 <sup>1</sup>	1.2	0.8 <sup>1</sup>	1.2	0.8 <sup>1</sup>	1.2	0.8 <sup>1</sup>	

**Northeast Region**

<b>Total Region</b> .....	23.3	1,336	23.2	521	16.4	116	23.3	174	23.3	111	23.3	450	3.3
<b>Climate Zone<sup>2</sup></b>													
Under 2,000 CDD and Over 5,500 HDD .....	19.5	1,310	19.4	514	13.2	105	19.4	173	19.5	109	19.5	444	5.3
Under 5,500 HDD .....	3.8	1,467	3.8	552	3.2	161	3.8	178	3.8	125	3.8	480	14.1
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>													
Single-Family .....	16.6	1,481	16.5	585	11.6	127	16.6	178	16.6	120	16.6	511	3.0
Mobile Home .....	1.4	1,268	1.4	447	1.1	151	1.4	202	1.4	87	1.4	425	11.7
Multifamily (2 or more units)	5.3	899	5.3	339	3.7	71	5.3	156	5.3	90	5.3	266	6.8
<b>Heated Floorspace (square feet)</b>													
Fewer than 1,000 .....	5.9	918	5.8	351	3.9	80	5.9	155	5.9	91	5.9	271	6.6
1,000 to 1,999 .....	8.2	1,324	8.2	517	5.7	111	8.2	172	8.2	111	8.2	449	3.7
2,000 or More .....	9.2	1,612	9.2	632	6.8	140	9.2	189	9.2	125	9.2	564	3.8
<b>Ownership of Unit</b>													
Owned .....	16.2	1,472	16.1	577	11.8	129	16.2	179	16.2	119	16.2	505	3.2
Rented .....	7.1	1,024	7.1	392	4.6	81	7.1	163	7.1	95	7.1	323	6.5
<b>Year of Construction</b>													
1939 or Before .....	7.4	1,412	7.4	638	4.1	91	7.4	177	7.4	109	7.4	443	6.1
1940 to 1979 .....	11.7	1,323	11.7	488	8.7	121	11.7	170	11.7	117	11.7	459	3.8
1980 or After <sup>3</sup> .....	4.2	1,234	4.2	405	3.7	130	4.2	180	4.2	99	4.2	435	8.3
<b>1993 Family Income</b>													
Less than \$10,000 .....	3.0	1,070	2.9	482	1.7	70	3.0	148	3.0	96	3.0	306	8.1
\$10,000 to \$19,999 .....	5.3	1,221	5.3	520	3.3	83	5.3	156	5.3	111	5.3	385	4.9
\$20,000 to \$34,999 .....	6.0	1,325	6.0	511	4.3	112	6.0	173	6.0	109	6.0	455	4.2
\$35,000 to \$49,999 .....	4.4	1,410	4.4	518	3.4	122	4.4	195	4.4	109	4.4	495	5.1
\$50,000 or More .....	4.6	1,583	4.5	563	3.7	164	4.6	193	4.6	127	4.6	568	4.8
<b>Below Poverty Line</b>													
100 Percent .....	2.6	1,185	2.6	488	1.3	80	2.6	183	2.6	99	2.6	377	8.2
125 Percent .....	4.0	1,197	4.0	496	2.2	76	4.0	178	4.0	101	4.0	383	6.8
150 Percent .....	5.3	1,203	5.3	496	3.0	78	5.3	179	5.3	104	5.3	384	5.0
<b>Age of Householder</b>													
Under 35 Years .....	6.6	1,195	6.5	423	4.6	113	6.5	186	6.6	98	6.6	411	5.4
35 to 59 Years .....	9.9	1,457	9.9	532	6.9	132	9.9	199	9.9	115	9.9	522	3.7
60 Years and Over .....	6.8	1,294	6.8	598	5.0	95	6.8	127	6.8	119	6.8	381	4.5
<b>Household Size</b>													
1 Person .....	6.1	972	6.1	464	4.2	77	6.1	105	6.1	98	6.1	255	5.9
2 to 4 Persons .....	14.9	1,434	14.9	537	10.8	128	14.9	188	14.9	117	14.9	499	2.7
5 or More Persons .....	2.3	1,671	2.3	564	1.4	132	2.3	270	2.3	110	2.3	651	5.5

See footnotes at end of table.

**Table 40. Expenditures by End Uses, per Midwest Region Households, 1993 (Continued)**

Characteristics	All Uses		Space Heating		Air Conditioning		Water Heating		Refrigerators		Appliances		RSE Row Factors
	Households (mil-lion)	Expenditures (dol-lars)	Households (mil-lion)	Expenditures (dol-lars)	Households (mil-lion)	Expenditures (dol-lars)	Households (mil-lion)	Expenditures (dol-lars)	Households (mil-lion)	Expenditures (dol-lars)	Households (mil-lion)	Expenditures (dol-lars)	
	1.2	0.6	1.2	0.7 <sup>1</sup>	1.6	1.2 <sup>1</sup>	1.2	0.8 <sup>1</sup>	1.2	0.8 <sup>1</sup>	1.2	0.8 <sup>1</sup>	
<b>New England Division</b> .....	16.4	1,358	16.3	533	10.8	117	16.4	174	16.4	115	16.4	461	4.4
<b>Climate Zone<sup>2</sup></b>													
Under 2,000 CDD and Over 5,500 HDD .....	14.4	1,333	14.4	522	9.4	111	14.4	173	14.4	113	14.4	454	6.4
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>													
Single-Family .....	11.4	1,520	11.4	604	7.5	129	11.4	178	11.4	124	11.4	528	4.0
Mobile Home .....	0.9	1,275	0.9	432	0.6	170	0.9	204	0.9	90	0.9	438	16.4
Multifamily (2 or more units)	4.0	918	4.0	352	2.6	68	4.0	153	4.0	94	4.0	277	7.7
<b>Heated Floorspace (square feet)</b>													
Fewer than 1,000 .....	4.0	901	4.0	346	2.5	78	4.0	149	4.0	96	4.0	264	8.7
1,000 to 1,979 .....	5.8	1,384	5.8	546	3.7	120	5.8	175	5.8	115	5.8	471	4.7
2,000 or More .....	6.6	1,618	6.5	635	4.6	135	6.6	188	6.6	127	6.6	575	4.4
<b>Ownership of Unit</b>													
Owned .....	11.2	1,509	11.2	593	7.7	133	11.2	181	11.2	122	11.2	522	3.7
Rented .....	5.1	1,027	5.1	398	3.1	76	5.1	156	5.1	100	5.1	329	7.3
<b>Year of Construction</b>													
1939 or Before .....	4.9	1,475	4.9	682	2.4	95	4.9	181	4.9	115	4.9	456	7.5
1940 to 1979 .....	8.8	1,330	8.8	490	6.2	122	8.8	168	8.8	119	8.8	468	5.0
1980 or After <sup>3</sup> .....	2.7	1,237	2.7	402	2.2	124	2.7	180	2.7	100	2.7	452	8.8
<b>1993 Family Income</b>													
Less than \$10,000 .....	2.0	1,072	2.0	479	1.0	65	2.0	146	2.0	100	2.0	318	10.4
\$10,000 to \$19,999 .....	3.8	1,239	3.8	540	2.0	83	3.8	154	3.8	117	3.8	383	6.6
\$20,000 to \$34,999 .....	4.0	1,370	4.0	534	2.7	116	4.0	171	4.0	115	4.0	473	5.6
\$35,000 to \$49,999 .....	3.0	1,418	3.0	531	2.2	112	3.0	196	3.0	108	3.0	500	6.3
\$50,000 or More .....	3.5	1,584	3.5	556	2.8	162	3.5	193	3.5	127	3.5	580	5.8
<b>Below Poverty Line</b>													
100 Percent .....	1.8	1,214	1.8	486	0.7	80	1.8	187	1.8	104	1.8	404	10.1
125 Percent .....	2.7	1,219	2.7	501	1.2	73	2.7	179	2.7	106	2.7	399	8.9
150 Percent .....	3.5	1,209	3.5	503	1.7	73	3.5	177	3.5	109	3.5	387	6.1
<b>Age of Householder</b>													
Under 35 Years .....	4.3	1,243	4.3	445	2.8	119	4.3	188	4.3	106	4.3	429	6.7
35 to 59 Years .....	7.2	1,458	7.2	535	4.7	129	7.2	196	7.2	115	7.2	530	4.8
60 Years and Over .....	4.9	1,313	4.9	607	3.3	97	4.9	128	4.9	122	4.9	389	5.2
<b>Household Size</b>													
1 Person .....	4.4	979	4.4	471	2.9	73	4.4	104	4.4	101	4.4	259	8.2
2 to 4 Persons .....	10.4	1,472	10.4	552	7.1	132	10.4	189	10.4	122	10.4	519	3.6
5 or More Persons .....	1.6	1,682	1.6	582	0.8	134	1.6	268	1.6	108	1.6	653	6.9

See footnotes at end of table.

**Table 40. Expenditures by End Uses, per Midwest Region Households, 1993 (Continued)**

Characteristics	All Uses		Space Heating		Air Conditioning		Water Heating		Refrigerators		Appliances		RSE Row Factors
	Households (mil-lion)	Expend-itures (dol-lars)	Households (mil-lion)	Expend-itures (dol-lars)	Households (mil-lion)	Expend-itures (dol-lars)	Households (mil-lion)	Expend-itures (dol-lars)	Households (mil-lion)	Expend-itures (dol-lars)	Households (mil-lion)	Expend-itures (dol-lars)	
RSE Column Factor:	1.2	0.6	1.2	0.7 <sup>1</sup>	1.6	1.2 <sup>1</sup>	1.2	0.8 <sup>1</sup>	1.2	0.8 <sup>1</sup>	1.2	0.8 <sup>1</sup>	
<b>Middle Atlantic Division</b> .....	6.9	1,282	6.9	492	5.6	114	6.9	176	6.9	103	6.9	422	4.3
<b>Climate Zone<sup>2</sup></b>													
Under 2,000 CDD and Over 5,500 HDD .....	5.0	1,242	5.0	493	3.8	89	5.0	173	5.0	96	5.0	414	7.9
Under 5,500 HDD .....	1.9	1,386	1.9	490	1.8	168	1.9	182	1.9	120	1.9	441	12.1
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>													
Single-Family .....	5.2	1,396	5.2	542	4.1	122	5.2	176	5.2	111	5.2	472	4.1
Mobile Home .....	0.5	1,254	0.5	480	0.4	124	0.5	197	0.5	80	0.5	397	12.7
Multifamily (2 or more units) .....	1.3	840	1.3	299	1.1	78	1.3	166	1.3	76	1.3	233	15.1
<b>Heated Floorspace (square feet)</b>													
Fewer than 1,000 .....	1.8	955	1.8	360	1.4	85	1.8	166	1.8	81	1.8	286	9.2
1,000 to 1,999 .....	2.5	1,182	2.4	448	2.0	94	2.5	164	2.5	100	2.5	397	5.0
2,000 or More .....	2.7	1,600	2.7	625	2.3	149	2.6	192	2.7	120	2.7	539	6.8
<b>Ownership of Unit</b>													
Owned .....	5.0	1,389	4.9	540	4.1	122	4.9	174	5.0	111	5.0	467	5.1
Rented .....	2.0	1,016	2.0	376	1.5	91	2.0	179	2.0	82	2.0	310	12.9
<b>Year of Construction</b>													
1939 or Before .....	2.5	1,289	2.5	551	1.6	85	2.5	171	2.5	96	2.5	418	9.5
1940 to 1979 .....	3.0	1,303	2.9	484	2.5	118	2.9	178	3.0	110	3.0	433	4.1
1980 or After <sup>3</sup> .....	1.5	1,228	1.5	410	1.5	139	1.5	179	1.5	98	1.5	405	17.3
<b>1993 Family Income</b>													
Less than \$10,000 .....	0.9	1,068	0.9	488	0.7	76	0.9	153	0.9	89	0.9	280	13.0
\$10,000 to \$19,999 .....	1.6	1,180	1.6	473	1.2	83	1.6	161	1.6	97	1.6	390	5.8
\$20,000 to \$34,999 .....	2.0	1,235	2.0	464	1.6	103	2.0	178	2.0	96	2.0	418	5.3
\$35,000 to \$49,999 .....	1.4	1,394	1.4	489	1.2	141	1.4	192	1.4	112	1.4	484	8.6
\$50,000 or More .....	1.0	1,582	1.0	587	0.9	169	1.0	192	1.0	125	1.0	527	7.8
<b>Below Poverty Line</b>													
100 Percent .....	0.8	1,123	0.8	492	0.6	79	0.8	174	0.8	89	0.8	317	14.3
125 Percent .....	1.4	1,156	1.3	486	1.0	79	1.4	176	1.4	91	1.4	349	10.3
150 Percent .....	1.8	1,191	1.8	483	1.3	83	1.8	182	1.8	93	1.8	376	8.6
<b>Age of Householder</b>													
Under 35 Years .....	2.3	1,103	2.2	382	1.8	103	2.2	182	2.3	83	2.3	378	8.6
35 to 59 Years .....	2.7	1,454	2.7	523	2.2	139	2.7	208	2.7	112	2.7	501	5.3
60 Years and Over .....	2.0	1,247	2.0	577	1.6	91	2.0	124	2.0	112	2.0	362	8.0
<b>Household Size</b>													
1 Person .....	1.7	954	1.7	447	1.3	87	1.7	107	1.7	90	1.7	244	6.9
2 to 4 Persons .....	4.5	1,346	4.5	504	3.8	121	4.5	186	4.5	105	4.5	453	3.3
5 or More Persons .....	0.7	1,649	0.7	526	0.6	129	0.7	273	0.7	113	0.7	645	9.1

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

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

<sup>3</sup> Does not include all new construction for 1993.

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.

• Consumption and Expenditures data are for major energy sources which include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas. • See "Glossary" in *Household Energy Consumption and Expenditures 1993* 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 1993 Residential Energy Consumption Survey.

**Table 41. Total Electricity and Natural Gas Consumption and Expenditures for Space Heating in Midwest Region Households, 1993**

Characteristics	Electricity				Natural Gas				RSE Row Factors
	Households (million)	Total Consumed		Total Expenditures (billion dollars)	Households (million)	Total Consumed		Total Expenditures (billion dollars)	
		(trillion Btu)	(billion kWh)			(trillion Btu)	(billion cubic feet)		
RSE Column Factor:	1.1	1.8 <sup>1</sup>	1.8 <sup>1</sup>	1.8 <sup>1</sup>	0.6	0.7 <sup>1</sup>	0.7 <sup>1</sup>	0.6 <sup>1</sup>	

**Midwest Region**

<b>Total Region</b> .....	5.8	73.9	21.7	1.54	17.0	1,561.0	1,519	8.40	11.1
<b>Climate Zone<sup>2</sup></b>									
Under 2,000 CDD and Over 5,500 HDD .....	4.4	55.7	16.3	1.16	14.4	1,317.5	1,282	7.08	15.4
Under 5,500 HDD .....	1.4	18.2	5.3	0.38	2.6	243.6	237	1.32	41.1
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>									
Single-Family .....	4.0	53.9	15.8	1.09	12.2	1,246.6	1,213	6.67	12.0
Mobile Home .....	0.3	Q	Q	Q	0.7	52.8	51	0.28	47.3
Multifamily (2 or more units) .....	1.5	14.8	4.4	0.33	4.1	261.7	255	1.44	17.1
<b>Heated Floorspace (square feet)</b>									
Fewer than 1,000 .....	1.6	16.6	4.9	0.37	4.2	250.8	244	1.38	14.0
1,000 to 1,999 .....	2.1	29.4	8.6	0.61	6.1	557.9	543	3.02	14.1
2,000 or More .....	2.2	27.9	8.2	0.56	6.7	752.4	732	4.00	11.8
<b>Ownership of Unit</b>									
Owned .....	3.9	55.1	16.2	1.13	11.7	1,178.9	1,147	6.33	12.0
Rented .....	1.9	18.8	5.5	0.41	5.3	382.2	372	2.06	16.9
<b>Year of Construction</b>									
1939 or Before .....	1.5	8.7	2.5	0.20	5.6	617.2	600	3.36	17.2
1940 to 1979 .....	2.8	41.6	12.2	0.87	8.9	757.2	737	4.02	11.3
1980 or After <sup>3</sup> .....	1.5	23.7	6.9	0.47	2.6	186.7	182	1.02	21.6
<b>1993 Family Income</b>									
Less than \$10,000 .....	0.9	14.6	4.3	0.32	1.9	159.7	155	0.86	19.2
\$10,000 to \$19,999 .....	1.2	15.4	4.5	0.33	4.0	374.1	364	2.01	18.1
\$20,000 to \$34,999 .....	1.3	12.2	3.6	0.26	4.4	385.3	375	2.11	15.4
\$35,000 to \$49,999 .....	1.2	13.7	4.0	0.27	3.2	284.1	276	1.54	13.3
\$50,000 or More .....	1.2	18.0	5.3	0.36	3.5	357.7	348	1.88	15.4
<b>Below Poverty Line</b>									
100 Percent .....	0.7	10.1	3.0	0.22	1.8	155.8	152	0.83	23.9
125 Percent .....	1.0	15.9	4.7	0.34	2.7	233.4	227	1.26	18.5
150 Percent .....	1.5	21.5	6.3	0.47	3.6	313.3	305	1.70	15.2
<b>Age of Householder</b>									
Under 35 Years .....	1.7	15.2	4.5	0.32	4.9	384.6	374	2.05	15.3
35 to 59 Years .....	2.4	34.4	10.1	0.69	7.3	673.8	655	3.64	13.4
60 Years and Over .....	1.7	24.3	7.1	0.53	4.8	502.7	489	2.70	13.8
<b>Household Size</b>									
1 Person .....	1.5	20.0	5.9	0.46	4.5	362.6	353	1.98	14.4
2 to 4 Persons .....	3.7	47.8	14.0	0.96	10.9	1,037.2	1,009	5.55	11.9
5 or More Persons .....	0.5	6.2	1.8	0.12	1.6	161.3	157	0.87	18.0

See footnotes at end of table.

**Table 41. Total Electricity and Natural Gas Consumption and Expenditures for Space Heating in Midwest Region Households, 1993 (Continued)**

Characteristics	Electricity				Natural Gas				RSE Row Factors
	Households (million)	Total Consumed		Total Expenditures (billion dollars)	Households (million)	Total Consumed		Total Expenditures (billion dollars)	
		(trillion Btu)	(billion kWh)			(trillion Btu)	(billion cubic feet)		
RSE Column Factor:	1.1	1.8 <sup>1</sup>	1.8 <sup>1</sup>	1.8 <sup>1</sup>	0.6	0.7 <sup>1</sup>	0.7 <sup>1</sup>	0.6 <sup>1</sup>	
<b>East North Central Division</b> .....	3.5	44.2	13.0	0.95	13.0	1,199.8	1,167	6.49	10.9
<b>Climate Zone<sup>2</sup></b>									
Under 2,000 CDD and Over 5,500 HDD .....	2.9	37.4	11.0	0.78	11.5	1,052.4	1,024	5.68	16.1
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>									
Single-Family .....	2.5	34.4	10.1	0.72	9.0	940.0	914	5.06	13.6
Mobile Home .....	0.2	Q	Q	Q	0.6	39.9	39	0.21	56.3
Multifamily (2 or more units) .....	0.8	6.8	2.0	0.16	3.4	219.9	214	1.22	17.6
<b>Heated Floorspace (square feet)</b>									
Fewer than 1,000 .....	1.0	8.6	2.5	0.20	3.2	184.2	179	1.02	13.8
1,000 to 1,999 .....	1.2	19.5	5.7	0.42	4.6	440.1	428	2.39	14.8
2,000 or More .....	1.3	16.2	4.7	0.34	5.1	575.4	560	3.08	14.2
<b>Ownership of Unit</b>									
Owned .....	2.5	35.7	10.5	0.76	8.7	893.1	869	4.82	12.7
Rented .....	1.0	8.5	2.5	0.19	4.3	306.6	298	1.67	16.5
<b>Year of Construction</b>									
1939 or Before .....	0.9	5.9	1.7	0.14	3.9	456.7	444	2.52	20.6
1940 to 1979 .....	1.9	29.8	8.7	0.63	7.1	606.0	589	3.22	12.4
1980 or After <sup>3</sup> .....	0.7	8.5	2.5	0.18	2.0	137.1	133	0.76	24.9
<b>1993 Family Income</b>									
Less than \$10,000 .....	0.5	8.3	2.4	0.18	1.5	120.3	117	0.66	20.5
\$10,000 to \$19,999 .....	0.7	Q	Q	0.20	3.1	296.4	288	1.60	20.3
\$20,000 to \$34,999 .....	0.7	6.3	1.9	0.14	3.2	293.3	285	1.63	17.3
\$35,000 to \$49,999 .....	0.7	7.7	2.3	0.16	2.4	214.2	208	1.16	16.2
\$50,000 or More .....	0.9	12.8	3.8	0.26	2.8	275.5	268	1.45	17.7
<b>Below Poverty Line</b>									
100 Percent .....	0.4	4.9	1.4	0.11	1.4	121.4	118	0.65	27.6
125 Percent .....	0.5	8.1	2.4	0.18	2.1	179.7	175	0.98	21.2
150 Percent .....	0.8	11.4	3.3	0.25	2.7	235.5	229	1.29	15.3
<b>Age of Householder</b>									
Under 35 Years .....	0.9	7.1	2.1	0.17	3.6	287.8	280	1.55	14.9
35 to 59 Years .....	1.5	21.0	6.1	0.43	5.7	523.5	509	2.85	15.9
60 Years and Over .....	1.1	16.1	4.7	0.35	3.7	388.5	378	2.09	13.0
<b>Household Size</b>									
1 Person .....	1.0	12.7	3.7	0.30	3.5	283.4	276	1.55	14.8
2 to 4 Persons .....	2.1	27.9	8.2	0.58	8.2	788.9	767	4.24	12.4
5 or More Persons .....	0.4	3.6	1.1	0.07	1.2	127.5	124	0.70	21.0

See footnotes at end of table.

**Table 41. Total Electricity and Natural Gas Consumption and Expenditures for Space Heating in Midwest Region Households, 1993 (Continued)**

Characteristics	Electricity				Natural Gas				RSE Row Factors
	Households (million)	Total Consumed		Total Expenditures (billion dollars)	Households (million)	Total Consumed		Total Expenditures (billion dollars)	
		(trillion Btu)	(billion kWh)			(trillion Btu)	(billion cubic feet)		
West North Central Division .....	2.4	29.8	8.7	0.59	4.1	361.3	351	1.91	26.0
<b>Climate Zone<sup>2</sup></b>									
Under 2,000 CDD and Over 5,500 HDD .....	1.5	Q	Q	Q	3.0	265.1	258	1.40	40.2
Under 5,500 HDD .....	0.8	Q	Q	Q	1.1	96.2	94	0.51	24.0
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>									
Single-Family .....	1.6	19.5	5.7	0.38	3.2	306.6	298	1.62	23.8
Mobile Home .....	Q	Q	Q	Q	Q	Q	Q	Q	NF
Multifamily (2 or more units) .....	0.7	Q	Q	Q	0.7	41.8	41	0.22	43.0
<b>Heated Floorspace (square feet)</b>									
Fewer than 1,000 .....	0.7	8.1	2.4	0.17	1.1	66.6	65	0.36	29.4
1,000 to 1,999 .....	0.8	Q	Q	Q	1.5	117.7	115	0.63	34.0
2,000 or More .....	0.9	11.7	3.4	0.22	1.6	177.0	172	0.92	21.8
<b>Ownership of Unit</b>									
Owned .....	1.5	19.5	5.7	0.37	3.0	285.8	278	1.51	24.6
Rented .....	0.9	Q	Q	Q	1.1	75.5	73	0.39	31.8
<b>Year of Construction</b>									
1939 or Before .....	0.5	2.8	0.8	0.06	1.7	160.5	156	0.84	28.6
1940 to 1979 .....	1.0	11.8	3.5	0.24	1.7	151.2	147	0.80	24.2
1980 or After <sup>3</sup> .....	0.9	15.2	4.4	0.29	0.7	49.6	48	0.26	24.8
<b>1993 Family Income</b>									
Less than \$10,000 .....	0.4	Q	Q	Q	0.5	39.4	38	0.21	46.9
\$10,000 to \$19,999 .....	0.5	6.4	1.9	0.14	0.9	77.7	76	0.42	31.9
\$20,000 to \$34,999 .....	0.6	5.8	1.7	0.12	1.2	92.0	89	0.48	29.5
\$35,000 to \$49,999 .....	0.5	6.0	1.8	0.11	0.8	70.0	68	0.38	23.7
\$50,000 or More .....	0.4	Q	Q	Q	0.7	82.2	80	0.43	31.2
<b>Below Poverty Line</b>									
100 Percent .....	Q	Q	Q	Q	0.4	34.4	33	0.18	44.5
125 Percent .....	0.5	7.9	2.3	0.17	0.7	53.7	52	0.28	36.3
150 Percent .....	0.7	10.2	3.0	0.22	0.9	77.8	76	0.41	33.3
<b>Age of Householder</b>									
Under 35 Years .....	0.8	8.1	2.4	0.16	1.4	96.8	94	0.50	30.1
35 to 59 Years .....	0.9	13.4	3.9	0.26	1.6	150.2	146	0.80	24.8
60 Years and Over .....	0.7	Q	Q	Q	1.1	114.2	111	0.61	36.6
<b>Household Size</b>									
1 Person .....	0.6	7.3	2.1	Q	1.0	79.1	77	0.43	32.8
2 to 4 Persons .....	1.6	19.9	5.8	0.38	2.7	248.3	242	1.31	25.9
5 or More Persons .....	0.2	Q	Q	Q	0.4	33.8	33	0.17	34.4

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

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

<sup>3</sup> Does not include all new construction for 1993.

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" in *Household Energy Consumption and Expenditures 1993* 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, E, and F of the 1993 Residential Energy Consumption Survey.

**Table 42. Total Fuel Oil, Kerosene, and LPG Consumption and Expenditures for Space Heating in Midwest Region Households, 1993**

Characteristics	Fuel Oil				Kerosene				Liquefied Petroleum Gas				RSE Row Factors
	Households (million)	Total Consumed		Total Expenditures (billion dollars)	Households (million)	Total Consumed		Total Expenditures (billion dollars)	Households (million)	Total Consumed		Total Expenditures (billion dollars)	
		(trillion Btu)	(billion gallons)			(trillion Btu)	(billion gallons)			(trillion Btu)	(billion gallons)		
		0.9	0.9 <sup>1</sup>			0.9 <sup>1</sup>	0.9 <sup>1</sup>			1.2	1.3 <sup>1</sup>		

**Midwest Region**

<b>Total Region</b> .....	1.4	125.7	0.91	0.78	1.0	Q	Q	0.05	1.9	157.0	1.72	1.33	23.6
<b>Climate Zone<sup>2</sup></b>													
Under 2,000 CDD and Over 5,500 HDD .....	1.3	117.7	0.85	0.73	0.7	Q	Q	Q	1.4	115.8	1.27	0.96	29.8
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>													
Single-Family .....	1.3	123.1	0.89	0.76	0.9	Q	Q	Q	1.5	131.8	1.44	1.10	22.8
Mobile Home .....	Q	Q	Q	Q	Q	Q	Q	Q	0.4	25.2	0.28	0.23	39.1
Multifamily (2 or more units) ..	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Heated Floorspace (square feet)</b>													
Fewer than 1,000 .....	Q	Q	Q	Q	Q	Q	Q	Q	0.5	29.9	0.33	0.27	38.5
1,000 to 1,999 .....	0.5	38.1	0.28	0.25	0.4	1.8	0.01	0.02	0.5	39.6	0.43	0.34	29.2
2,000 or More .....	0.8	83.6	0.61	0.51	0.5	Q	Q	Q	0.9	87.5	0.96	0.72	20.6
<b>Ownership of Unit</b>													
Owned .....	1.2	109.1	0.79	0.68	0.8	Q	Q	Q	1.6	136.3	1.49	1.14	23.1
Rented .....	0.2	16.6	0.12	0.10	Q	Q	Q	Q	0.3	20.7	0.23	0.19	30.3
<b>Year of Construction</b>													
1939 or Before .....	0.7	73.2	0.53	0.46	0.5	Q	Q	Q	0.8	76.6	0.84	0.64	19.4
1940 to 1979 .....	0.6	52.0	0.38	0.32	0.4	0.6	(*)	0.01	0.8	59.3	0.65	0.50	31.6
1980 or After <sup>3</sup> .....	Q	Q	Q	Q	Q	Q	Q	Q	0.3	21.0	0.23	0.18	42.9
<b>1993 Family Income</b>													
Less than \$10,000 .....	Q	Q	Q	Q	Q	Q	Q	Q	0.2	19.9	0.22	0.17	50.7
\$10,000 to \$19,999 .....	0.2	26.8	0.19	0.17	0.2	Q	Q	Q	0.4	26.3	0.29	0.23	28.5
\$20,000 to \$34,999 .....	0.5	42.2	0.31	0.26	Q	0.6	(*)	0.01	0.7	50.1	0.55	0.43	28.8
\$35,000 to \$49,999 .....	0.4	34.2	0.25	0.21	0.2	0.4	(*)	(*)	0.4	32.2	0.35	0.26	31.3
\$50,000 or More .....	0.2	14.5	0.10	0.08	Q	Q	Q	Q	0.3	28.5	0.31	0.24	30.3
<b>Below Poverty Line</b>													
100 Percent .....	Q	Q	Q	Q	Q	Q	Q	Q	0.2	19.2	0.21	0.17	46.6
125 Percent .....	0.1	13.8	0.10	0.09	0.2	Q	Q	Q	0.4	32.3	0.35	0.28	34.9
150 Percent .....	0.2	22.0	0.16	0.14	0.2	1.4	0.01	0.01	0.5	35.6	0.39	0.31	33.6
<b>Age of Householder</b>													
Under 35 Years .....	0.2	22.3	0.16	0.14	0.2	0.8	0.01	0.01	0.4	26.6	0.29	0.24	33.1
35 to 59 Years .....	0.5	41.0	0.30	0.25	0.6	1.8	0.01	0.02	0.9	77.4	0.85	0.66	26.8
60 Years and Over .....	0.6	62.3	0.45	0.39	Q	Q	Q	Q	0.6	52.9	0.58	0.43	30.8
<b>Household Size</b>													
1 Person .....	0.3	24.1	0.18	0.16	Q	Q	Q	Q	0.3	27.1	0.30	0.23	33.8
2 to 4 Persons .....	0.9	87.7	0.63	0.54	0.7	Q	Q	Q	1.3	105.6	1.16	0.89	28.1
5 or More Persons .....	0.2	13.9	0.10	0.08	Q	Q	Q	Q	0.3	24.3	0.27	0.20	35.5

See footnotes at end of table.

**Table 42. Total Fuel Oil, Kerosene, and LPG Consumption and Expenditures for Space Heating in Midwest Region Households, 1993 (Continued)**

Characteristics	Fuel Oil				Kerosene				Liquefied Petroleum Gas				RSE Row Factors
	Households (million)	Total Consumed		Total Expenditures (billion dollars)	Households (million)	Total Consumed		Total Expenditures (billion dollars)	Households (million)	Total Consumed		Total Expenditures (billion dollars)	
		(trillion Btu)	(billion gallons)			(trillion Btu)	(billion gallons)			(trillion Btu)	(billion gallons)		
RSE Column Factor:	0.9	0.9 <sup>1</sup>	0.9 <sup>1</sup>	0.9 <sup>1</sup>	1.2	1.3 <sup>1</sup>	1.3 <sup>1</sup>	1.3 <sup>1</sup>	0.9	0.9 <sup>1</sup>	0.9 <sup>1</sup>	0.9 <sup>1</sup>	
<b>East North Central Division ..</b>	0.7	69.9	0.51	0.44	0.9	Q	Q	Q	1.0	89.3	0.98	0.76	30.3
<b>Climate Zone<sup>2</sup></b>													
Under 2,000 CDD and Over 5,500 HDD .....	0.7	64.3	0.47	0.41	0.6	Q	Q	Q	0.8	Q	Q	0.60	42.6
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>													
Single-Family .....	0.7	67.3	0.49	0.42	0.8	Q	Q	Q	0.7	75.9	0.83	0.64	29.0
Mobile Home .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Multifamily (2 or more units) ..	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Heated Floorspace (square feet)</b>													
Fewer than 1,000 .....	Q	Q	Q	Q	Q	Q	Q	Q	0.2	17.4	0.19	Q	54.9
1,000 to 1,999 .....	0.2	20.6	0.15	0.14	0.3	1.4	0.01	0.01	0.2	21.2	0.23	0.19	31.8
2,000 or More .....	0.5	47.6	0.34	0.29	0.5	Q	Q	Q	0.5	50.7	0.56	0.42	28.5
<b>Ownership of Unit</b>													
Owned .....	0.7	63.2	0.46	0.40	0.7	Q	Q	Q	0.8	76.6	0.84	0.65	30.0
Rented .....	Q	Q	Q	Q	Q	Q	Q	Q	0.2	12.8	0.14	0.11	42.4
<b>Year of Construction</b>													
1939 or Before .....	0.4	39.1	0.28	0.25	0.4	Q	Q	Q	0.4	44.5	0.49	0.38	24.1
1940 to 1979 .....	Q	Q	Q	Q	0.4	0.6	(*)	0.01	0.3	30.1	0.33	0.26	34.7
1980 or After <sup>3</sup> .....	Q	Q	Q	Q	Q	Q	Q	Q	0.2	14.8	0.16	0.13	53.5
<b>1993 Family Income</b>													
Less than \$10,000 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
\$10,000 to \$19,999 .....	Q	Q	Q	Q	Q	Q	Q	Q	0.2	13.3	0.15	0.11	43.5
\$20,000 to \$34,999 .....	0.2	19.4	0.14	0.12	Q	Q	Q	Q	0.3	25.3	0.28	0.23	48.0
\$35,000 to \$49,999 .....	0.3	Q	Q	Q	Q	Q	Q	Q	0.2	19.1	0.21	0.16	47.0
\$50,000 or More .....	Q	Q	Q	Q	Q	Q	Q	Q	0.2	23.2	0.25	0.19	32.3
<b>Below Poverty Line</b>													
100 Percent .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
125 Percent .....	Q	Q	Q	Q	Q	Q	Q	Q	0.2	13.6	0.15	0.12	52.5
150 Percent .....	Q	Q	Q	Q	Q	Q	Q	Q	0.2	15.0	0.16	0.13	53.3
<b>Age of Householder</b>													
Under 35 Years .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
35 to 59 Years .....	0.3	24.1	0.17	0.15	0.5	Q	Q	Q	0.4	46.6	0.51	0.40	34.0
60 Years and Over .....	0.3	35.6	0.26	0.22	Q	Q	Q	Q	0.3	30.3	0.33	0.25	28.0
<b>Household Size</b>													
1 Person .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
2 to 4 Persons .....	0.6	56.7	0.41	0.35	0.6	Q	Q	Q	0.7	61.0	0.67	0.52	39.2
5 or More Persons .....	Q	Q	Q	Q	Q	Q	Q	Q	0.1	11.6	0.13	0.10	38.2

See footnotes at end of table.

**Table 42. Total Fuel Oil, Kerosene, and LPG Consumption and Expenditures for Space Heating in Midwest Region Households, 1993 (Continued)**

Characteristics	Fuel Oil				Kerosene				Liquefied Petroleum Gas				RSE Row Factors
	Households (million)	Total Consumed		Total Expenditures (billion dollars)	Households (million)	Total Consumed		Total Expenditures (billion dollars)	Households (million)	Total Consumed		Total Expenditures (billion dollars)	
		(trillion Btu)	(billion gallons)			(trillion Btu)	(billion gallons)			(trillion Btu)	(billion gallons)		
RSE Column Factor:	0.9	0.9 <sup>1</sup>	0.9 <sup>1</sup>	0.9 <sup>1</sup>	1.2	1.3 <sup>1</sup>	1.3 <sup>1</sup>	1.3 <sup>1</sup>	0.9	0.9 <sup>1</sup>	0.9 <sup>1</sup>	0.9 <sup>1</sup>	
<b>West North Central Division</b>	0.6	55.8	0.41	0.34	0.1	Q	Q	Q	0.9	67.6	0.74	0.56	28.1
<b>Climate Zone<sup>2</sup></b>													
Under 2,000 CDD and Over 5,500 HDD .....	0.6	53.4	0.39	0.33	Q	Q	Q	Q	0.6	45.1	0.49	0.36	25.4
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>													
Single-Family .....	0.6	55.8	0.41	0.34	0.1	Q	Q	Q	0.7	55.9	0.61	0.46	29.4
Mobile Home .....	Q	Q	Q	Q	Q	Q	Q	Q	0.2	11.7	0.13	0.10	49.7
Multifamily (2 or more units) ..	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Heated Floorspace (square feet)</b>													
Fewer than 1,000 .....	Q	Q	Q	Q	Q	Q	Q	Q	0.2	12.5	0.14	0.11	45.8
1,000 to 1,999 .....	0.2	17.5	0.13	0.11	Q	Q	Q	Q	Q	Q	Q	Q	30.8
2,000 or More .....	0.4	35.9	0.26	0.22	Q	Q	Q	Q	0.4	36.8	0.40	0.30	23.5
<b>Ownership of Unit</b>													
Owned .....	0.5	45.9	0.33	0.28	0.1	Q	Q	Q	0.8	59.7	0.65	0.49	31.5
Rented .....	Q	Q	Q	Q	Q	Q	Q	Q	0.1	7.9	0.09	0.07	38.3
<b>Year of Construction</b>													
1939 or Before .....	0.4	34.1	0.25	0.21	Q	Q	Q	Q	0.4	32.1	0.35	0.26	26.1
1940 to 1979 .....	0.3	21.2	0.15	0.13	Q	Q	Q	Q	0.4	29.3	0.32	0.25	26.5
1980 or After <sup>3</sup> .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>1993 Family Income</b>													
Less than \$10,000 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
\$10,000 to \$19,999 .....	0.1	12.6	0.09	0.08	Q	Q	Q	Q	0.2	13.0	0.14	0.12	22.4
\$20,000 to \$34,999 .....	0.2	22.8	0.17	0.14	Q	Q	Q	Q	0.4	24.8	0.27	0.20	20.5
\$35,000 to \$49,999 .....	0.2	13.5	0.10	0.08	Q	Q	Q	Q	0.2	13.1	0.14	0.11	42.7
\$50,000 or More .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Below Poverty Line</b>													
100 Percent .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
125 Percent .....	Q	Q	Q	Q	Q	Q	Q	Q	0.2	18.7	0.20	0.16	49.1
150 Percent .....	Q	Q	Q	Q	Q	Q	Q	Q	0.3	20.6	0.23	0.18	48.1
<b>Age of Householder</b>													
Under 35 Years .....	0.1	12.2	0.09	0.07	Q	Q	Q	Q	0.2	14.2	0.16	0.12	33.2
35 to 59 Years .....	0.2	16.9	0.12	0.10	Q	Q	Q	Q	0.4	30.8	0.34	0.25	28.3
60 Years and Over .....	0.3	26.8	0.19	0.16	Q	Q	Q	Q	Q	Q	Q	Q	25.6
<b>Household Size</b>													
1 Person .....	0.2	15.6	0.11	0.10	Q	Q	Q	Q	0.1	10.3	0.11	0.08	41.1
2 to 4 Persons .....	0.3	31.0	0.22	0.19	Q	Q	Q	Q	0.6	44.6	0.49	0.38	31.0
5 or More Persons .....	Q	Q	Q	Q	Q	Q	Q	Q	0.2	12.7	0.14	0.10	45.3

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

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

<sup>3</sup> Does not include all new construction for 1993.

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

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" in *Household Energy Consumption and Expenditures 1993* 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, D, and G of the 1993 Residential Energy Consumption Survey.

**Table 43. Electricity Consumption and Expenditures for Main Space Heating, per Midwest Region Households, 1993**

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Electricity Space-Heating Intensity		RSE Row Factors
		(million Btu)	(kWh)			1993	30-Year Average <sup>2</sup>	Consumption (kWh/HDD* 1000 square feet)	Expenditures (cents/HDD* 1000 square feet)	
<b>Midwest Region</b>										
<b>Total Region</b> .....	2.9	24.2	7,097	499	1,573	6,254	6,066	0.72	5.1	7.3
<b>Climate Zone<sup>2</sup></b>										
Under 2,000 CDD and Over 5,500 HDD .....	2.2	23.8	6,980	491	1,504	6,450	6,281	0.72	5.1	10.1
Under 5,500 HDD .....	0.7	25.5	7,482	526	1,800	5,612	5,360	0.74	5.2	9.0
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>										
Single-Family .....	1.5	32.5	9,518	651	2,137	6,193	6,024	0.72	4.9	6.2
Mobile Home .....	0.2	24.2	7,081	532	1,029	6,458	6,256	1.07	8.0	23.4
Multifamily (2 or more units) .....	1.1	12.8	3,764	283	899	6,300	6,088	0.66	5.0	11.2
<b>Heated Floorspace (square feet)</b>										
Fewer than 1,000 .....	1.0	15.4	4,522	339	783	6,394	6,224	0.90	6.8	9.9
1,000 to 1,999 .....	1.1	25.1	7,360	520	1,388	6,268	6,061	0.85	6.0	7.7
2,000 or More .....	0.7	35.2	10,326	693	2,971	6,037	5,851	0.58	3.9	5.7
<b>Ownership of Unit</b>										
Owned .....	1.6	32.0	9,371	646	2,080	6,254	6,083	0.72	5.0	6.5
Rented .....	1.3	14.3	4,177	311	923	6,254	6,043	0.72	5.4	11.2
<b>Year of Construction</b>										
1939 or Before .....	0.2	32.9	9,654	748	1,647	6,671	6,393	0.88	6.8	18.0
1940 to 1979 .....	1.5	27.3	8,009	566	1,702	6,413	6,259	0.73	5.2	6.2
1980 or After <sup>3</sup> .....	1.2	19.0	5,571	376	1,407	5,994	5,778	0.66	4.5	10.4
<b>1993 Family Income</b>										
Less than \$10,000 .....	0.7	19.8	5,801	428	951	6,487	6,264	0.94	6.9	11.1
\$10,000 to \$19,999 .....	0.6	24.4	7,141	524	1,702	6,337	6,136	0.66	4.9	11.4
\$20,000 to \$34,999 .....	0.5	23.2	6,809	488	1,412	6,009	5,770	0.80	5.8	8.9
\$35,000 to \$49,999 .....	0.5	26.6	7,798	514	1,603	6,207	6,051	0.78	5.2	11.7
\$50,000 or More .....	0.6	28.3	8,295	558	2,304	6,123	6,003	0.59	4.0	10.5
<b>Below Poverty Line</b>										
100 Percent .....	0.5	21.2	6,208	463	1,054	6,460	6,109	0.91	6.8	15.5
125 Percent .....	0.7	22.1	6,488	475	1,156	6,467	6,181	0.87	6.4	11.2
150 Percent .....	1.0	21.2	6,205	460	1,152	6,439	6,199	0.84	6.2	10.0
<b>Age of Householder</b>										
Under 35 Years .....	0.9	16.3	4,768	343	1,186	6,161	5,870	0.65	4.7	11.7
35 to 59 Years .....	1.2	28.3	8,281	559	1,909	6,249	6,093	0.69	4.7	8.2
60 Years and Over .....	0.9	26.8	7,843	575	1,514	6,354	6,223	0.82	6.0	9.3
<b>Household Size</b>										
1 Person .....	1.0	19.4	5,697	443	1,226	6,420	6,305	0.72	5.6	10.6
2 to 4 Persons .....	1.7	25.9	7,591	517	1,711	6,155	5,919	0.72	4.9	7.7
5 or More Persons .....	0.2	36.1	10,572	663	2,264	6,298	6,168	0.74	4.6	13.0

See footnotes at end of table.

**Table 43. Electricity Consumption and Expenditures for Main Space Heating, per Midwest Region Households, 1993 (Continued)**

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Electricity Space-Heating Intensity		RSE Row Factors
		(million Btu)	(kWh)			1993	30-Year Average <sup>2</sup>	Consumption (kWh/HDD* 1000 square feet)	Expenditures (cents/HDD* 1000 square feet)	
RSE Column Factor:										

**Midwest Region**

**Main Heating Equipment Using Electricity**

Central Warm-Air Furnace .....	1.0	20.3	5,947	415	1,331	6,056	5,805	0.74	5.1	16.3
Built-In Electric Units .....	1.3	24.1	7,053	524	1,455	6,506	6,354	0.75	5.5	7.7
Heat Pump .....	0.4	34.3	10,063	620	2,596	5,793	5,603	0.67	4.1	8.5
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

**Age of Main Heating Equipment**

Less than 5 Years .....	0.5	20.1	5,893	384	1,664	5,793	5,532	0.61	4.0	17.6
5 to 9 Years .....	0.3	24.4	7,158	489	1,773	6,306	6,125	0.64	4.4	12.9
10 to 19 Years .....	1.0	26.6	7,808	537	1,660	6,425	6,323	0.73	5.0	8.4
20 Years or More .....	0.6	31.3	9,161	687	1,799	6,622	6,476	0.77	5.8	7.4
Don't Know .....	0.5	16.3	4,779	351	999	5,959	5,633	0.80	5.9	12.9

**Secondary Heating Fuel (more than one may apply)**

No .....	1.8	20.4	5,984	440	1,222	6,336	6,135	0.77	5.7	8.9
Yes .....	1.1	30.8	9,031	601	2,185	6,111	5,945	0.68	4.5	7.1
Wood .....	0.7	35.7	10,470	686	2,519	6,130	5,937	0.68	4.4	7.1
Electricity .....	0.3	28.9	8,460	554	1,979	6,052	5,925	0.71	4.6	12.7
Natural Gas .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Kerosene .....	Q	33.6	9,849	599	2,646	6,025	5,879	0.62	3.8	23.2
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

**Average Electricity Expenditures for Main Space Heat (cents per kWh)**

Less than 6 .....	0.4	36.6	10,716	577	2,234	5,821	5,623	0.82	4.4	7.6
6 to Less than 9 .....	2.1	23.0	6,751	482	1,464	6,259	6,075	0.74	5.3	9.6
9 or More .....	0.4	17.4	5,108	511	1,466	6,697	6,494	0.52	5.2	16.4

**Adequacy of Insulation**

Well Insulated .....	1.4	25.8	7,575	529	1,791	6,285	6,101	0.67	4.7	7.2
Adequately Insulated .....	1.0	24.0	7,042	483	1,558	6,236	6,052	0.72	5.0	8.2
Poorly Insulated .....	0.5	19.6	5,753	441	942	6,199	5,986	0.99	7.6	18.1

See footnotes at end of table.

**Table 43. Electricity Consumption and Expenditures for Main Space Heating, per Midwest Region Households, 1993 (Continued)**

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Electricity Space-Heating Intensity		RSE Row Factors
		(million Btu)	(kWh)			1993	30-Year Average <sup>2</sup>	Consumption (kWh/HDD* 1000 square feet)	Expenditures (cents/HDD* 1000 square feet)	
<b>East North Central Division</b> .....	1.6	25.9	7,590	551	1,628	6,416	6,332	0.73	5.3	8.1
<b>Climate Zone<sup>2</sup></b>										
Under 2,000 CDD and Over 5,500 HDD .....	1.4	25.9	7,586	537	1,621	6,513	6,437	0.72	5.1	9.4
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>										
Single-Family .....	1.0	33.1	9,698	682	2,098	6,314	6,234	0.73	5.1	7.3
Mobile Home .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Multifamily (2 or more units) .....	0.5	12.5	3,661	294	873	6,502	6,400	0.64	5.2	16.8
<b>Heated Floorspace (square feet)</b>										
Fewer than 1,000 .....	0.5	15.5	4,548	351	748	6,453	6,422	0.94	7.3	13.8
1,000 to 1,999 .....	0.7	28.2	8,263	596	1,500	6,505	6,387	0.85	6.1	7.1
2,000 or More .....	0.4	35.1	10,277	725	2,912	6,232	6,134	0.57	4.0	8.0
<b>Ownership of Unit</b>										
Owned .....	1.0	32.5	9,527	681	2,026	6,400	6,323	0.73	5.3	7.8
Rented .....	0.6	13.9	4,085	315	909	6,445	6,347	0.70	5.4	14.9
<b>Year of Construction</b>										
1939 or Before .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1940 to 1979 .....	1.0	29.3	8,589	614	1,804	6,340	6,257	0.75	5.4	6.9
1980 or After <sup>3</sup> .....	0.5	17.2	5,052	370	1,243	6,595	6,556	0.62	4.5	13.2
<b>1993 Family Income</b>										
Less than \$10,000 .....	0.4	21.4	6,267	471	958	6,565	6,423	1.00	7.5	14.0
\$10,000 to \$19,999 .....	0.3	25.8	7,551	563	1,840	6,510	6,430	0.63	4.7	13.5
\$20,000 to \$34,999 .....	0.2	27.4	8,026	614	1,542	6,174	6,044	0.84	6.5	12.8
\$35,000 to \$49,999 .....	0.2	30.3	8,894	608	1,493	6,409	6,398	0.93	6.4	10.6
\$50,000 or More .....	0.5	26.9	7,869	551	2,150	6,336	6,280	0.58	4.0	12.6
<b>Below Poverty Line</b>										
100 Percent .....	0.2	23.8	6,964	544	1,263	6,559	6,146	0.84	6.6	20.7
125 Percent .....	0.3	24.4	7,160	530	1,176	6,593	6,351	0.92	6.8	15.0
150 Percent .....	0.5	22.9	6,711	508	1,175	6,579	6,417	0.87	6.6	13.5
<b>Age of Householder</b>										
Under 35 Years .....	0.4	17.1	5,019	399	1,208	6,528	6,277	0.64	5.1	14.2
35 to 59 Years .....	0.7	29.2	8,547	585	1,956	6,447	6,399	0.68	4.6	9.1
60 Years and Over .....	0.6	27.9	8,174	612	1,516	6,302	6,287	0.86	6.4	11.1
<b>Household Size</b>										
1 Person .....	0.6	20.5	6,002	477	1,376	6,378	6,393	0.68	5.4	12.4
2 to 4 Persons .....	0.9	28.6	8,375	589	1,723	6,450	6,293	0.75	5.3	8.5
5 or More Persons .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table 43. Electricity Consumption and Expenditures for Main Space Heating, per Midwest Region Households, 1993 (Continued)**

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Electricity Space-Heating Intensity		RSE Row Factors
		(million Btu)	(kWh)			1993	30-Year Average <sup>2</sup>	Consumption (kWh/HDD* 1000 square feet)	Expenditures (cents/HDD* 1000 square feet)	
RSE Column Factor:	3.0	1.1 <sup>1</sup>	1.1 <sup>1</sup>	1.2 <sup>1</sup>	1.0	0.4	0.5	1.0 <sup>1</sup>	1.0 <sup>1</sup>	
<b>West North Central Division</b> .....	1.3	22.1	6,481	435	1,505	6,052	5,733	0.71	4.8	12.1
<b>Climate Zone<sup>2</sup></b>										
Under 2,000 CDD and										
Over 5,500 HDD .....	Q	20.5	6,012	417	1,318	6,350	6,032	0.72	5.0	18.2
Under 5,500 HDD .....	Q	25.3	7,409	470	1,875	5,463	5,141	0.72	4.6	8.5
2,000 CDD or More and										
Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>										
Single-Family .....	0.6	31.4	9,214	600	2,203	5,989	5,669	0.70	4.5	11.1
Mobile Home .....	Q	22.8	6,669	Q	1,010	5,952	5,562	1.11	7.6	48.2
Multifamily (2 or more units) .....	Q	13.1	3,852	274	921	6,128	5,822	0.68	4.9	10.1
<b>Heated Floorspace (square feet)</b>										
Fewer than 1,000 .....	0.5	15.3	4,496	327	819	6,334	6,023	0.87	6.3	12.5
1,000 to 1,999 .....	Q	20.7	6,061	410	1,229	5,927	5,591	0.83	5.6	15.0
2,000 or More .....	0.3	35.5	10,394	650	3,051	5,770	5,464	0.59	3.7	8.4
<b>Ownership of Unit</b>										
Owned .....	0.6	31.0	9,098	584	2,174	5,998	5,664	0.70	4.5	10.9
Rented .....	Q	14.5	4,253	307	935	6,098	5,792	0.75	5.4	14.8
<b>Year of Construction</b>										
1939 or Before .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1940 to 1979 .....	0.5	23.3	6,829	469	1,494	6,561	6,265	0.70	4.8	15.8
1980 or After <sup>3</sup> .....	Q	20.1	5,903	380	1,512	5,609	5,281	0.70	4.5	15.9
<b>1993 Family Income</b>										
Less than \$10,000 .....	Q	18.0	5,285	381	943	6,400	6,088	0.88	6.3	15.6
\$10,000 to \$19,999 .....	0.3	22.6	6,637	476	1,533	6,124	5,777	0.71	5.1	18.7
\$20,000 to \$34,999 .....	0.3	20.1	5,888	393	1,314	5,885	5,562	0.76	5.1	14.5
\$35,000 to \$49,999 .....	0.2	23.1	6,766	425	1,707	6,016	5,723	0.66	4.1	19.7
\$50,000 or More .....	Q	32.7	9,586	578	2,771	5,478	5,162	0.63	3.8	11.4
<b>Below Poverty Line</b>										
100 Percent .....	Q	19.3	5,651	404	900	6,388	6,083	0.98	7.0	19.0
125 Percent .....	0.4	20.2	5,933	430	1,139	6,363	6,042	0.82	5.9	12.0
150 Percent .....	0.5	19.5	5,726	414	1,130	6,307	5,993	0.80	5.8	9.4
<b>Age of Householder</b>										
Under 35 Years .....	Q	15.6	4,576	300	1,169	5,877	5,556	0.67	4.4	17.8
35 to 59 Years .....	0.5	27.0	7,909	522	1,843	5,971	5,664	0.72	4.7	16.7
60 Years and Over .....	0.3	24.8	7,261	510	1,510	6,444	6,112	0.75	5.2	20.0
<b>Household Size</b>										
1 Person .....	Q	17.9	5,237	392	998	6,482	6,173	0.81	6.1	14.7
2 to 4 Persons .....	0.8	22.9	6,716	436	1,699	5,827	5,501	0.68	4.4	10.2
5 or More Persons .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

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

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

<sup>3</sup> Does not include all new construction for 1993.

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" in *Household Energy Consumption and Expenditures 1993* 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.

**Table 44. Natural Gas Consumption and Expenditures for Main Space Heating, per Midwest Region Households, 1993**

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Natural Gas Space-Heating Intensity		RSE Row Factors
		(million Btu)	(1000 cubic feet)			1993	30-Year Average <sup>2</sup>	Consumption (kWh/HDD* 1000 square feet)	Expenditures (cents/HDD* 1000 square feet)	
RSE Column Factor:	2.4	1.1 <sup>1</sup>	1.1 <sup>1</sup>	1.0 <sup>1</sup>	1.0	0.5	0.5	1.1 <sup>1</sup>	1.2 <sup>1</sup>	

**Midwest Region**

<b>Total Region</b> .....	16.9	92.3	89.8	496	1,880	6,601	6,460	7.2	4.0	2.6
<b>Climate Zone<sup>2</sup></b>										
Under 2,000 CDD and Over 5,500 HDD .....	14.4	91.5	89.0	492	1,865	6,785	6,657	7.0	3.9	2.8
Under 5,500 HDD .....	2.5	96.8	94.1	522	1,964	5,535	5,324	8.7	4.8	6.6
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>										
Single-Family .....	12.1	103.2	100.4	552	2,243	6,629	6,470	6.8	3.7	2.8
Mobile Home .....	0.7	71.2	69.3	380	990	6,835	6,585	10.2	5.6	6.7
Multifamily (2 or more units) .....	4.1	63.9	62.2	352	972	6,474	6,407	9.9	5.6	4.3
<b>Heated Floorspace (square feet)</b>										
Fewer than 1,000 .....	4.2	59.4	57.8	326	764	6,543	6,437	11.6	6.5	4.2
1,000 to 1,999 .....	6.0	92.2	89.7	499	1,511	6,536	6,390	9.1	5.0	3.2
2,000 or More .....	6.6	113.2	110.1	602	2,924	6,697	6,539	5.6	3.1	3.3
<b>Ownership of Unit</b>										
Owned .....	11.6	101.5	98.8	545	2,197	6,656	6,495	6.8	3.7	2.9
Rented .....	5.3	72.1	70.1	389	1,186	6,479	6,384	9.1	5.1	4.0
<b>Year of Construction</b>										
1939 or Before .....	5.5	111.5	108.5	606	1,886	6,663	6,517	8.6	4.8	4.2
1940 to 1979 .....	8.8	85.8	83.4	455	1,759	6,538	6,399	7.3	4.0	2.6
1980 or After <sup>3</sup> .....	2.5	72.9	70.9	398	2,287	6,684	6,548	4.6	2.6	4.7
<b>1993 Family Income</b>										
Less than \$10,000 .....	1.9	82.1	79.8	443	1,259	6,617	6,490	9.6	5.3	4.9
\$10,000 to \$19,999 .....	4.0	93.3	90.8	502	1,597	6,584	6,466	8.6	4.8	4.3
\$20,000 to \$34,999 .....	4.4	88.5	86.1	483	1,733	6,744	6,571	7.4	4.1	3.9
\$35,000 to \$49,999 .....	3.1	91.3	88.8	495	2,046	6,513	6,362	6.7	3.7	3.8
\$50,000 or More .....	3.5	102.3	99.5	536	2,584	6,510	6,385	5.9	3.2	3.7
<b>Below Poverty Line</b>										
100 Percent .....	1.8	84.7	82.4	453	1,284	6,584	6,453	9.8	5.4	5.1
125 Percent .....	2.7	85.7	83.4	463	1,392	6,656	6,521	9.0	5.0	4.8
150 Percent .....	3.6	87.4	85.0	473	1,408	6,621	6,487	9.1	5.1	3.4
<b>Age of Householder</b>										
Under 35 Years .....	4.9	78.4	76.2	418	1,639	6,569	6,424	7.1	3.9	3.9
35 to 59 Years .....	7.2	93.0	90.5	503	2,038	6,585	6,446	6.7	3.7	3.0
60 Years and Over .....	4.7	105.5	102.6	567	1,887	6,658	6,518	8.2	4.5	3.8
<b>Household Size</b>										
1 Person .....	4.5	79.9	77.7	436	1,299	6,576	6,457	9.1	5.1	4.3
2 to 4 Persons .....	10.8	96.0	93.4	513	2,098	6,590	6,442	6.8	3.7	3.0
5 or More Persons .....	1.6	102.6	99.8	554	2,057	6,747	6,598	7.2	4.0	4.4

See footnotes at end of table.

**Table 44. Natural Gas Consumption and Expenditures for Main Space Heating, per Midwest Region Households, 1993 (Continued)**

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Natural Gas Space-Heating Intensity		RSE Row Factors
		(million Btu)	(1000 cubic feet)			1993	30-Year Average <sup>2</sup>	Consumption (kWh/HDD* 1000 square feet)	Expenditures (cents/HDD* 1000 square feet)	
RSE Column Factor:	2.4	1.1 <sup>1</sup>	1.1 <sup>1</sup>	1.0 <sup>1</sup>	1.0	0.5	0.5	1.1 <sup>1</sup>	1.2 <sup>1</sup>	

**Midwest Region**

**Main Heating Equipment Using Natural Gas**

Central Warm-Air Furnace .....	13.5	91.6	89.1	495	1,984	6,582	6,431	6.8	3.8	2.6
Steam or Hot-Water System .....	2.9	99.2	96.5	521	1,535	6,712	6,623	9.4	5.1	6.5
Floor, Wall, or Pipeless Furnace .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Room Heater/Other .....	0.4	69.8	67.9	398	982	6,481	6,371	10.7	6.2	9.6

**Age of Main Heating Equipment**

Less than 5 Years .....	3.3	83.6	81.4	461	2,179	6,796	6,631	5.5	3.1	3.9
5 to 9 Years .....	3.1	95.2	92.6	517	2,207	6,496	6,362	6.5	3.6	4.1
10 to 19 Years .....	3.5	98.8	96.1	536	1,911	6,619	6,468	7.6	4.2	4.5
20 Years or More .....	4.3	105.2	102.4	553	1,901	6,624	6,477	8.1	4.4	3.8
Don't Know .....	2.7	70.8	68.9	377	1,080	6,425	6,329	9.9	5.4	5.6

**Secondary Heating Fuel (more than one may apply)**

No .....	4.8	102.9	100.1	548	2,383	6,587	6,444	6.4	3.5	3.4
Yes .....	12.0	88.0	85.6	475	1,677	6,606	6,467	7.7	4.3	3.2
Wood .....	2.6	102.7	99.9	538	2,644	6,685	6,513	5.7	3.0	4.7
Electricity .....	2.1	100.9	98.2	554	2,078	6,488	6,346	7.3	4.1	5.5
Kerosene .....	0.5	106.6	103.7	561	2,132	6,259	6,162	7.8	4.2	9.7
Other .....	0.6	100.4	97.6	537	2,455	6,837	6,730	5.8	3.2	9.4

**Average Natural Gas Expenditures for Main Space Heat (dollars per 1000 cf)**

Less than 4.50 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
4.50 to Less than 6 .....	12.0	97.5	94.9	498	1,908	6,524	6,382	7.6	4.0	3.3
6 or More .....	4.8	78.2	76.1	490	1,799	6,785	6,649	6.2	4.0	6.1

**Adequacy of Insulation**

Well Insulated .....	6.0	91.7	89.2	494	2,113	6,709	6,569	6.3	3.5	3.1
Adequately Insulated .....	7.1	88.3	85.9	475	1,816	6,585	6,424	7.2	4.0	3.4
Poorly Insulated .....	3.8	100.6	97.9	539	1,627	6,459	6,354	9.3	5.1	4.4

See footnotes at end of table.

**Table 44. Natural Gas Consumption and Expenditures for Main Space Heating, per Midwest Region Households, 1993 (Continued)**

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Natural Gas Space-Heating Intensity		RSE Row Factors
		(million Btu)	(1000 cubic feet)			1993	30-Year Average <sup>2</sup>	Consumption (kWh/HDD* 1000 square feet)	Expenditures (cents/HDD* 1000 square feet)	
<b>East North Central Division</b> .....	12.9	93.1	90.5	504	1,879	6,519	6,438	7.4	4.1	2.8
<b>Climate Zone<sup>2</sup></b>										
Under 2,000 CDD and Over 5,500 HDD .....	11.5	91.9	89.4	496	1,878	6,625	6,551	7.2	4.0	2.9
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>										
Single-Family .....	8.9	105.4	102.6	567	2,282	6,545	6,450	6.9	3.8	3.1
Mobile Home .....	0.6	68.8	66.9	370	1,012	6,770	6,531	9.8	5.4	7.1
Multifamily (2 or more units) .....	3.4	64.8	63.0	359	969	6,410	6,391	10.1	5.8	4.5
<b>Heated Floorspace (square feet)</b>										
Fewer than 1,000 .....	3.2	58.0	56.5	321	758	6,499	6,460	11.5	6.5	4.6
1,000 to 1,999 .....	4.6	95.5	92.9	518	1,509	6,412	6,332	9.6	5.4	3.6
2,000 or More .....	5.1	112.7	109.6	604	2,910	6,629	6,521	5.7	3.1	3.8
<b>Ownership of Unit</b>										
Owned .....	8.6	103.3	100.5	558	2,220	6,559	6,455	6.9	3.8	3.2
Rented .....	4.2	72.2	70.3	393	1,185	6,439	6,405	9.2	5.2	4.4
<b>Year of Construction</b>										
1939 or Before .....	3.9	117.9	114.7	649	1,945	6,451	6,384	9.1	5.2	4.9
1940 to 1979 .....	7.1	85.4	83.0	453	1,755	6,499	6,411	7.3	4.0	2.8
1980 or After <sup>3</sup> .....	1.9	71.4	69.4	395	2,204	6,732	6,649	4.7	2.7	5.6
<b>1993 Family Income</b>										
Less than \$10,000 .....	1.5	82.2	80.0	448	1,252	6,541	6,479	9.8	5.5	5.4
\$10,000 to \$19,999 .....	3.1	96.0	93.3	517	1,548	6,447	6,398	9.4	5.2	4.6
\$20,000 to \$34,999 .....	3.2	91.2	88.7	506	1,813	6,606	6,496	7.4	4.2	4.4
\$35,000 to \$49,999 .....	2.3	91.4	89.0	497	2,038	6,485	6,394	6.7	3.8	4.3
\$50,000 or More .....	2.8	99.2	96.5	520	2,521	6,517	6,432	5.9	3.2	4.0
<b>Below Poverty Line</b>										
100 Percent .....	1.4	85.3	83.0	460	1,274	6,524	6,453	10.0	5.5	5.4
125 Percent .....	2.1	87.4	85.1	477	1,369	6,557	6,492	9.5	5.3	4.7
150 Percent .....	2.7	88.5	86.1	484	1,372	6,515	6,450	9.6	5.4	3.0
<b>Age of Householder</b>										
Under 35 Years .....	3.5	81.0	78.8	437	1,709	6,485	6,414	7.1	3.9	4.6
35 to 59 Years .....	5.7	92.2	89.7	501	1,993	6,520	6,432	6.9	3.9	3.4
60 Years and Over .....	3.7	106.1	103.2	572	1,867	6,552	6,472	8.4	4.7	4.2
<b>Household Size</b>										
1 Person .....	3.5	80.1	77.9	439	1,298	6,512	6,443	9.2	5.2	4.8
2 to 4 Persons .....	8.1	97.1	94.4	521	2,111	6,503	6,417	6.9	3.8	3.3
5 or More Persons .....	1.2	104.1	101.3	573	2,022	6,650	6,567	7.5	4.3	4.7

See footnotes at end of table.

**Table 44. Natural Gas Consumption and Expenditures for Main Space Heating, per Midwest Region Households, 1993 (Continued)**

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Natural Gas Space-Heating Intensity		RSE Row Factors
		(million Btu)	(1000 cubic feet)			1993	30-Year Average <sup>2</sup>	Consumption (kWh/HDD* 1000 square feet)	Expenditures (cents/HDD* 1000 square feet)	
<b>West North Central Division</b> .....	4.0	89.7	87.2	473	1,882	6,863	6,531	6.8	3.7	5.8
<b>Climate Zone<sup>2</sup></b>										
Under 2,000 CDD and Over 5,500 HDD .....	2.9	89.9	87.5	475	1,817	7,407	7,066	6.5	3.5	7.7
Under 5,500 HDD .....	1.1	89.0	86.5	466	2,063	5,350	5,041	7.8	4.2	6.0
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>										
Single-Family .....	3.1	96.8	94.2	510	2,131	6,869	6,528	6.4	3.5	6.1
Mobile Home .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Multifamily (2 or more units) .....	0.7	59.7	58.0	317	985	6,789	6,485	8.7	4.7	11.6
<b>Heated Floorspace (square feet)</b>										
Fewer than 1,000 .....	1.0	63.6	61.9	343	785	6,676	6,369	11.8	6.5	8.1
1,000 to 1,999 .....	1.4	81.8	79.6	437	1,519	6,937	6,578	7.6	4.1	4.1
2,000 or More .....	1.5	114.8	111.7	595	2,970	6,922	6,596	5.4	2.9	6.3
<b>Ownership of Unit</b>										
Owned .....	2.9	96.2	93.6	508	2,130	6,943	6,613	6.3	3.4	5.6
Rented .....	1.1	71.4	69.4	373	1,192	6,642	6,301	8.8	4.7	8.6
<b>Year of Construction</b>										
1939 or Before .....	1.7	96.5	93.9	506	1,749	7,160	6,828	7.5	4.0	7.7
1940 to 1979 .....	1.7	87.4	85.0	463	1,774	6,695	6,350	7.2	3.9	6.3
1980 or After <sup>3</sup> .....	0.6	77.5	75.4	410	2,542	6,535	6,236	4.5	2.5	8.1
<b>1993 Family Income</b>										
Less than \$10,000 .....	0.5	81.7	79.5	428	1,280	6,853	6,526	9.1	4.9	12.7
\$10,000 to \$19,999 .....	0.9	84.5	82.2	452	1,763	7,045	6,696	6.6	3.6	9.8
\$20,000 to \$34,999 .....	1.1	80.8	78.6	420	1,505	7,134	6,784	7.3	3.9	6.7
\$35,000 to \$49,999 .....	0.8	90.9	88.4	487	2,073	6,600	6,261	6.5	3.6	7.5
\$50,000 or More .....	0.7	114.3	111.2	597	2,829	6,485	6,206	6.1	3.3	7.3
<b>Below Poverty Line</b>										
100 Percent .....	0.4	82.7	80.4	428	1,319	6,790	6,452	9.0	4.8	13.6
125 Percent .....	0.7	80.3	78.1	420	1,463	6,961	6,609	7.7	4.1	14.1
150 Percent .....	0.9	83.9	81.6	441	1,514	6,927	6,593	7.8	4.2	10.3
<b>Age of Householder</b>										
Under 35 Years .....	1.4	71.3	69.4	369	1,454	6,791	6,453	7.0	3.7	7.2
35 to 59 Years .....	1.6	95.7	93.1	508	2,203	6,822	6,498	6.2	3.4	6.5
60 Years and Over .....	1.1	103.7	100.9	551	1,952	7,013	6,674	7.4	4.0	7.1
<b>Household Size</b>										
1 Person .....	1.0	79.0	76.8	424	1,305	6,807	6,506	8.7	4.8	9.4
2 to 4 Persons .....	2.7	92.6	90.1	488	2,058	6,855	6,517	6.4	3.5	6.2
5 or More Persons .....	0.3	97.2	94.5	487	2,179	7,088	6,707	6.1	3.2	9.1

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

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

<sup>3</sup> Does not include all new construction for 1993.

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" in *Household Energy Consumption and Expenditures 1993* 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 F of the 1993 Residential Energy Consumption Survey.

**Table 45. Fuel Oil Consumption and Expenditures for Main Space Heating, per Midwest Region Households, 1993**

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Fuel Oil Space-Heating Intensity		RSE Row Factors
		(million Btu)	(gallons)			1993	30-Year Average <sup>2</sup>	Consumption (kWh/HDD* 1000 square feet)	Expenditures (cents/HDD* 1000 square feet)	
RSE Column Factor:										
<b>Total Region</b> .....	1.3	94.6	685	588	2,234	7,743	7,521	0.040	3.4	4.4
East North Central Division .....	0.7	100.2	725	628	2,240	7,348	7,203	0.044	3.8	8.7
West North Central Division .....	0.6	88.6	643	545	2,228	8,162	7,858	0.035	3.0	5.4
<b>Climate Zone<sup>2</sup></b>										
Under 2,000 CDD and Over 5,500 HDD .....	1.2	94.6	685	589	2,267	7,888	7,663	0.038	3.3	4.6
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>										
Single-Family .....	1.2	96.2	697	596	2,275	7,734	7,511	0.040	3.4	4.5
Mobile Home .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Multifamily (2 or more units) .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Heated Floorspace (square feet)</b>										
Fewer than 1,000 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1,000 to 1,999 .....	0.5	79.4	575	513	1,506	7,503	7,306	0.051	4.5	8.1
2,000 or More .....	0.8	107.1	775	650	2,813	7,857	7,617	0.035	2.9	3.8
<b>Ownership of Unit</b>										
Owned .....	1.1	95.5	692	593	2,251	7,736	7,524	0.040	3.4	4.7
Rented .....	0.2	89.0	644	558	2,135	7,783	7,502	0.039	3.4	11.4
<b>Year of Construction</b>										
1939 or Before .....	0.7	102.0	738	635	2,302	7,560	7,311	0.042	3.7	5.5
1940 to 1979 .....	0.6	86.6	628	536	2,175	7,984	7,792	0.036	3.1	5.6
1980 or After <sup>3</sup> .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>1993 Family Income</b>										
Less than \$10,000 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
\$10,000 to \$19,999 .....	0.2	109.8	800	708	2,064	7,962	7,724	0.049	4.3	8.5
\$20,000 to \$34,999 .....	0.5	90.5	655	553	2,464	7,902	7,650	0.034	2.8	6.5
\$35,000 to \$49,999 .....	0.4	85.4	616	523	2,130	7,575	7,401	0.038	3.2	7.7
\$50,000 or More .....	Q	Q	Q	Q	Q	Q	Q	0.041	3.3	20.6
<b>Below Poverty Line</b>										
100 Percent .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
125 Percent .....	0.1	100.6	733	630	2,111	7,822	7,650	0.044	3.8	15.3
150 Percent .....	0.2	101.6	739	659	1,956	7,580	7,375	0.050	4.4	12.0
<b>Age of Householder</b>										
Under 35 Years .....	0.2	92.0	666	576	1,803	7,744	7,515	0.048	4.1	10.8
35 to 59 Years .....	0.5	83.4	604	517	2,267	7,587	7,401	0.035	3.0	7.9
60 Years and Over .....	0.6	104.9	760	651	2,388	7,871	7,622	0.040	3.5	6.7
<b>Household Size</b>										
1 Person .....	0.3	84.9	618	553	2,023	7,934	7,637	0.038	3.4	7.7
2 to 4 Persons .....	0.9	99.0	717	609	2,329	7,657	7,448	0.040	3.4	6.1
5 or More Persons .....	0.2	87.7	633	535	2,089	7,870	7,709	0.038	3.3	13.7

See footnotes at end of table.

**Table 45. Fuel Oil Consumption and Expenditures for Main Space Heating, per Midwest Region Households, 1993 (Continued)**

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Fuel Oil Space-Heating Intensity		RSE Row Factors
		(million Btu)	(gallons)			1993	30-Year Average <sup>2</sup>	Consumption (kWh/HDD* 1000 square feet)	Expenditures (cents/HDD* 1000 square feet)	
RSE Column Factor:										

**Main Heating Equipment**

**Using Fuel Oil**

Central Warm-Air Furnace	1.0	89.9	650	564	2,134	7,722	7,493	0.039	3.4	4.7
Steam or Hot-Water System	0.2	112.7	817	662	2,797	7,808	7,594	0.037	3.0	11.7
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

**Age of Main Heating Equipment**

Less than 5 Years	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
5 to 9 Years	0.2	100.3	725	620	2,068	8,482	8,161	0.041	3.5	7.9
10 to 19 Years	0.4	88.2	639	541	2,100	7,972	7,783	0.038	3.2	7.1
20 Years or More	0.5	101.0	733	637	2,331	7,414	7,229	0.042	3.7	8.1
Don't Know	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

**Secondary Heating Fuel (more than one may apply)**

No	0.4	87.1	630	536	2,384	7,399	7,177	0.036	3.0	8.0
Yes	0.8	98.6	714	615	2,155	7,925	7,703	0.042	3.6	4.8
Wood	0.2	90.6	655	561	2,518	7,399	7,123	0.035	3.0	13.0
Electricity	0.3	87.6	635	536	2,346	7,493	7,282	0.036	3.1	10.4
Kerosene	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

**Average Fuel Oil Expenditures for Main Space Heat (dollars per gallon)**

Less than .95	1.2	93.1	674	569	2,255	7,808	7,580	0.038	3.2	4.2
.95 to Less than 1.10	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1.10 or More	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

**Adequacy of Insulation**

Well Insulated	0.6	89.1	646	555	2,464	7,912	7,674	0.033	2.8	5.1
Adequately Insulated	0.5	99.9	723	619	1,956	7,623	7,398	0.049	4.2	7.9
Poorly Insulated	0.2	99.5	718	613	2,209	7,469	7,320	0.044	3.7	16.8

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

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

<sup>3</sup> Does not include all new construction for 1993.

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: • Data in the East North Central and West North Central Divisions are not presented separately due to a scarcity of data. • 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" in *Household Energy Consumption and Expenditures 1993* 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 G of the 1993 Residential Energy Consumption Survey.

**Table 46. Liquefied Petroleum Gas Consumption and Expenditures for Main Space Heating, per Midwest Region Households, 1993**

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Liquefied Petroleum Gas Space-Heating Intensity		RSE Row Factors
		(million Btu)	(gallons)			1993	30-Year Average <sup>2</sup>	Consumption (kWh/HDD* 1000 square feet)	Expenditures (cents/HDD* 1000 square feet)	

**Midwest Region**

<b>Total Region</b> .....	1.8	86.5	947	726	2,098	6,929	6,642	0.068	5.0	5.8
<b>Climate Zone<sup>2</sup></b>										
Under 2,000 CDD and Over 5,500 HDD .....	1.3	85.5	936	709	2,135	7,355	7,084	0.062	4.5	9.3
Under 5,500 HDD .....	Q	89.6	981	778	1,987	5,639	5,305	0.093	6.9	15.1
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>										
Single-Family .....	1.4	94.7	1,037	784	2,474	6,868	6,602	0.063	4.6	6.3
Mobile Home .....	0.4	59.8	655	536	875	7,127	6,773	0.110	8.6	7.1
Multifamily (2 or more units) .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Heated Floorspace (square feet)</b>										
Fewer than 1,000 .....	0.4	68.8	754	619	812	6,883	6,569	0.141	11.1	8.8
1,000 to 1,999 .....	0.5	80.1	877	681	1,507	6,938	6,677	0.087	6.5	8.2
2,000 or More .....	0.9	98.5	1,079	802	3,044	6,946	6,658	0.053	3.8	5.6
<b>Ownership of Unit</b>										
Owned .....	1.5	88.5	970	737	2,210	6,969	6,690	0.066	4.8	6.0
Rented .....	0.3	74.8	819	661	1,461	6,702	6,366	0.088	6.8	10.8
<b>Year of Construction</b>										
1939 or Before .....	0.7	105.6	1,156	872	2,306	6,981	6,695	0.075	5.4	5.7
1940 to 1979 .....	0.7	78.0	854	658	1,972	6,900	6,609	0.066	4.8	10.5
1980 or After <sup>3</sup> .....	0.3	64.5	707	564	1,938	6,884	6,601	0.055	4.2	12.9
<b>1993 Family Income</b>										
Less than \$10,000 .....	0.2	116.8	1,279	1,010	1,187	6,724	6,496	0.166	12.7	16.9
\$10,000 to \$19,999 .....	0.4	64.8	710	558	1,398	7,220	6,767	0.075	5.5	9.1
\$20,000 to \$34,999 .....	0.6	77.8	852	662	2,066	6,782	6,535	0.063	4.7	9.3
\$35,000 to \$49,999 .....	0.3	95.3	1,044	769	2,826	7,174	7,000	0.053	3.8	8.3
\$50,000 or More .....	0.2	112.9	1,236	921	2,998	6,642	6,333	0.065	4.6	9.3
<b>Below Poverty Line</b>										
100 Percent .....	0.2	95.9	1,050	840	1,133	6,883	6,546	0.141	10.8	13.6
125 Percent .....	0.4	84.2	922	725	1,265	7,174	6,721	0.108	8.0	13.1
150 Percent .....	0.4	83.0	909	721	1,294	7,296	6,840	0.103	7.6	12.7
<b>Age of Householder</b>										
Under 35 Years .....	0.4	61.6	675	548	1,417	6,917	6,555	0.073	5.6	9.4
35 to 59 Years .....	0.8	93.7	1,026	786	2,309	6,978	6,714	0.066	4.9	8.3
60 Years and Over .....	0.5	95.5	1,045	778	2,324	6,866	6,604	0.068	4.9	10.0
<b>Household Size</b>										
1 Person .....	0.3	99.6	1,090	831	1,466	6,841	6,586	0.113	8.3	10.8
2 to 4 Persons .....	1.2	85.1	932	716	2,134	6,895	6,598	0.066	4.9	8.1
5 or More Persons .....	0.3	80.1	877	668	2,528	7,153	6,875	0.050	3.7	9.0

See footnotes at end of table.

**Table 46. Liquefied Petroleum Gas Consumption and Expenditures for Main Space Heating, per Midwest Region Households, 1993 (Continued)**

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Liquefied Petroleum Gas Space-Heating Intensity		RSE Row Factors
		(million Btu)	(gallons)			1993	30-Year Average <sup>2</sup>	Consumption (kWh/HDD* 1000 square feet)	Expenditures (cents/HDD* 1000 square feet)	
RSE Column Factor:	2.8	0.9 <sup>1</sup>	0.9 <sup>1</sup>	0.9 <sup>1</sup>	1.0	0.5	0.5	1.4 <sup>1</sup>	1.5 <sup>1</sup>	

**Midwest Region**

**Main Heating Equipment Using LPG**

Central Warm-Air	1.5	81.9	896	694	2,112	6,957	6,645	0.064	4.7	6.1
Room Heater/Other	0.3	113.0	1,237	906	2,018	6,772	6,625	0.093	6.6	17.1

**Age of Main Heating Equipment**

Less than 5 Years	0.7	87.7	960	726	2,420	7,130	6,809	0.058	4.2	6.2
5 to 9 Years	0.5	73.8	808	622	1,889	7,069	6,838	0.063	4.7	9.9
10 to 19 Years	0.3	117.3	1,285	982	1,900	6,685	6,362	0.106	7.7	7.3
20 Years or More	0.3	86.3	945	743	2,044	6,671	6,419	0.072	5.4	14.3
Don't Know	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

**Secondary Heating Fuel (more than one may apply)**

No	0.8	86.9	951	753	2,256	6,792	6,493	0.065	4.9	8.5
Yes	1.0	86.2	944	705	1,978	7,034	6,756	0.071	5.1	7.8
Wood	0.3	83.7	916	737	2,799	6,584	6,234	0.052	4.0	11.5
Electricity	0.4	79.9	874	708	2,144	6,562	6,298	0.065	5.0	10.4
Kerosene	0.2	92.0	1,007	740	2,035	7,056	6,754	0.073	5.2	12.5
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

**Average LPG Expenditures for Main Space Heat (dollars per gallon)**

Less than .75	0.6	92.3	1,011	652	2,351	7,539	7,168	0.060	3.7	9.8
.75 to Less than 1.00	1.1	83.9	919	764	1,969	6,638	6,388	0.073	5.8	6.3
1.00 or More	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

**Adequacy of Insulation**

Well Insulated	0.6	85.3	934	683	2,374	6,999	6,772	0.058	4.1	11.3
Adequately Insulated	0.8	79.4	869	668	2,187	7,064	6,767	0.059	4.3	8.2
Poorly Insulated	0.4	100.9	1,105	888	1,565	6,592	6,241	0.113	8.6	9.4

See footnotes at end of table.

**Table 46. Liquefied Petroleum Gas Consumption and Expenditures for Main Space Heating, per Midwest Region Households, 1993 (Continued)**

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Liquefied Petroleum Gas Space-Heating Intensity		RSE Row Factors
		(million Btu)	(gallons)			1993	30-Year Average <sup>2</sup>	Consumption (kWh/HDD* 1000 square feet)	Expenditures (cents/HDD* 1000 square feet)	
RSE Column Factor:										
<b>East North Central Division</b> .....	0.9	95.9	1,051	817	2,155	6,761	6,512	0.075	5.6	7.8
<b>Climate Zone<sup>2</sup></b>										
Under 2,000 CDD and Over 5,500 HDD .....	0.8	91.7	1,004	779	2,117	6,997	6,746	0.070	5.3	13.0
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>										
Single-Family .....	0.7	109.4	1,197	919	2,609	6,617	6,405	0.072	5.3	6.9
Mobile Home .....	Q	57.3	627	524	849	7,175	6,821	0.108	8.6	9.5
Multifamily (2 or more units) .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Heated Floorspace (square feet)</b>										
Fewer than 1,000 .....	0.2	72.9	799	670	810	7,010	6,741	0.146	11.8	13.4
1,000 to 1,999 .....	0.2	89.7	983	786	1,508	6,562	6,395	0.102	7.9	11.7
2,000 or More .....	0.4	111.2	1,217	911	3,191	6,732	6,453	0.059	4.2	7.0
<b>Ownership of Unit</b>										
Owned .....	0.7	100.0	1,095	850	2,302	6,757	6,523	0.073	5.5	7.5
Rented .....	0.2	77.4	847	668	1,480	6,777	6,462	0.089	6.7	12.5
<b>Year of Construction</b>										
1939 or Before .....	0.4	114.1	1,249	968	2,306	6,430	6,194	0.087	6.5	7.6
1940 to 1979 .....	0.3	92.6	1,014	787	1,932	6,972	6,731	0.078	5.8	16.4
1980 or After <sup>3</sup> .....	0.2	68.8	753	595	2,219	7,033	6,751	0.050	3.8	16.5
<b>1993 Family Income</b>										
Less than \$10,000 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
\$10,000 to \$19,999 .....	0.2	70.0	766	586	1,285	7,503	6,949	0.086	6.1	13.4
\$20,000 to \$34,999 .....	0.3	83.1	910	757	1,909	6,404	6,257	0.076	6.2	14.1
\$35,000 to \$49,999 .....	0.2	110.8	1,213	905	3,040	6,892	6,774	0.059	4.3	9.9
\$50,000 or More .....	0.2	123.8	1,356	1,001	3,138	6,586	6,297	0.069	4.8	10.7
<b>Below Poverty Line</b>										
100 Percent .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
125 Percent .....	Q	80.5	881	704	1,099	7,637	7,087	0.113	8.4	25.1
150 Percent .....	Q	82.3	901	729	1,087	7,753	7,192	0.115	8.6	23.9
<b>Age of Householder</b>										
Under 35 Years .....	Q	61.2	670	559	1,177	7,239	6,888	0.083	6.6	18.1
35 to 59 Years .....	0.4	110.1	1,205	938	2,384	6,636	6,401	0.079	5.9	10.5
60 Years and Over .....	0.3	100.2	1,097	827	2,510	6,605	6,407	0.068	5.0	11.3
<b>Household Size</b>										
1 Person .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
2 to 4 Persons .....	0.6	93.5	1,024	788	2,164	6,946	6,693	0.071	5.2	11.3
5 or More Persons .....	0.1	83.5	914	721	2,669	6,687	6,380	0.054	4.0	14.0

See footnotes at end of table.

**Table 46. Liquefied Petroleum Gas Consumption and Expenditures for Main Space Heating, per Midwest Region Households, 1993 (Continued)**

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Liquefied Petroleum Gas Space-Heating Intensity		RSE Row Factors
		(million Btu)	(gallons)			1993	30-Year Average <sup>2</sup>	Consumption (kWh/HDD* 1000 square feet)	Expenditures (cents/HDD* 1000 square feet)	
<b>West North Central Division</b> .....	0.9	76.4	836	628	2,037	7,109	6,781	0.061	4.3	8.5
<b>Climate Zone<sup>2</sup></b>										
Under 2,000 CDD and Over 5,500 HDD .....	0.6	77.3	847	618	2,158	7,822	7,523	0.052	3.7	9.5
Under 5,500 HDD .....	Q	74.4	815	650	1,784	5,624	5,233	0.087	6.5	18.0
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>										
Single-Family .....	0.7	79.9	875	649	2,339	7,121	6,799	0.055	3.9	9.8
Mobile Home .....	0.2	63.1	691	550	910	7,064	6,710	0.113	8.6	10.8
Multifamily (2 or more units) .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Heated Floorspace (square feet)</b>										
Fewer than 1,000 .....	0.2	63.7	697	554	815	6,723	6,352	0.135	10.1	10.2
1,000 to 1,999 .....	Q	71.3	780	584	1,506	7,286	6,937	0.075	5.3	16.6
2,000 or More .....	0.4	85.0	931	687	2,888	7,174	6,876	0.047	3.3	8.0
<b>Ownership of Unit</b>										
Owned .....	0.8	77.2	845	625	2,118	7,180	6,857	0.058	4.1	8.6
Rented .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Year of Construction</b>										
1939 or Before .....	0.3	95.5	1,046	759	2,305	7,633	7,288	0.062	4.3	8.5
1940 to 1979 .....	0.4	67.1	734	561	2,001	6,846	6,518	0.056	4.1	11.8
1980 or After <sup>3</sup> .....	Q	56.1	614	503	1,377	6,586	6,303	0.071	5.5	15.7
<b>1993 Family Income</b>										
Less than \$10,000 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
\$10,000 to \$19,999 .....	0.2	60.2	659	534	1,499	6,967	6,604	0.067	5.1	11.8
\$20,000 to \$34,999 .....	0.3	72.9	799	574	2,211	7,131	6,792	0.053	3.6	10.8
\$35,000 to \$49,999 .....	0.2	78.3	857	619	2,591	7,484	7,248	0.046	3.2	9.2
\$50,000 or More .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Below Poverty Line</b>										
100 Percent .....	Q	104.3	1,142	890	1,303	6,835	6,464	0.136	10.0	19.7
125 Percent .....	0.2	87.1	953	741	1,394	6,815	6,437	0.106	7.8	15.0
150 Percent .....	0.2	83.6	915	716	1,448	6,956	6,578	0.096	7.1	15.2
<b>Age of Householder</b>										
Under 35 Years .....	0.2	62.0	679	537	1,637	6,622	6,250	0.066	5.0	12.2
35 to 59 Years .....	0.4	76.4	837	625	2,229	7,340	7,044	0.053	3.8	9.3
60 Years and Over .....	Q	89.7	982	716	2,095	7,187	6,845	0.068	4.8	19.6
<b>Household Size</b>										
1 Person .....	0.1	78.6	861	603	1,331	7,755	7,409	0.087	5.8	14.9
2 to 4 Persons .....	0.6	75.7	828	636	2,100	6,837	6,491	0.061	4.4	9.0
5 or More Persons .....	0.2	77.2	845	622	2,404	7,567	7,315	0.048	3.4	11.8

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

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

<sup>3</sup> Does not include all new construction for 1993.

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" in *Household Energy Consumption and Expenditures 1993* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-D of the 1993 Residential Energy Consumption Survey.

**Table 47. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, Midwest Region Households, 1993**

Characteristics	Electricity Used for All Air Conditioning			Electricity Used for Central Air Conditioning <sup>2</sup>									RSE Row Factors
	Households (million)	Total Consumption (trillion 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 <sup>3</sup>	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
RSE Column Factor:	1.1	1.4 <sup>1</sup>	1.4 <sup>1</sup>	1.6	0.8 <sup>1</sup>	0.8 <sup>1</sup>	0.8 <sup>1</sup>	0.8	0.8	0.8	0.8 <sup>1</sup>	0.9 <sup>1</sup>	

**Midwest Region**

<b>Total Region</b> .....	16.4	79.4	1.90	10.5	6.0	1,772	143	2,372	851	873	0.88	7.1	4.4
<b>Climate Zone<sup>3</sup></b>													
Under 2,000 CDD and Over 5,500 HDD .....	13.2	57.5	1.38	8.5	5.5	1,606	131	2,328	765	788	0.90	7.4	6.8
Under 5,500 HDD .....	3.2	21.8	0.51	2.1	8.4	2,454	194	2,554	1,205	1,224	0.80	6.3	12.6
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>													
Single-Family .....	11.6	62.6	1.47	8.1	6.4	1,884	151	2,793	841	871	0.80	6.4	5.0
Mobile Home .....	1.1	6.3	0.16	0.7	6.9	2,028	174	1,052	719	782	2.68	23.0	11.3
Multifamily (2 or more units) .....	3.7	10.5	0.26	1.7	3.9	1,138	94	931	953	924	1.28	10.6	10.8
<b>Heated Floorspace (square feet)</b>													
Fewer than 1,000 .....	3.9	12.7	0.31	2.0	4.3	1,254	103	926	873	858	1.55	12.8	9.2
1,000 to 1,999 .....	5.7	25.7	0.63	3.5	5.7	1,656	139	1,817	899	926	1.01	8.5	6.2
2,000 or More .....	6.8	40.9	0.95	5.0	7.0	2,059	162	3,337	809	843	0.76	6.0	4.9
<b>Ownership of Unit</b>													
Owned .....	11.8	64.0	1.52	8.2	6.5	1,893	153	2,694	828	858	0.85	6.9	4.8
Rented .....	4.6	15.3	0.37	2.3	4.6	1,335	108	1,214	934	928	1.18	9.5	10.3
<b>Year of Construction</b>													
1939 or Before .....	4.0	15.5	0.37	1.3	5.9	1,715	139	2,572	768	841	0.87	7.0	9.6
1940 to 1979 .....	8.7	42.9	1.06	6.1	6.0	1,753	145	2,277	854	876	0.90	7.5	5.7
1980 or After <sup>4</sup> .....	3.6	20.9	0.47	3.1	6.3	1,833	141	2,472	882	882	0.84	6.5	9.1
<b>1993 Family Income</b>													
Less than \$10,000 .....	1.7	5.1	0.12	0.6	4.5	1,322	105	1,402	968	956	0.97	7.7	15.2
\$10,000 to \$19,999 .....	3.2	11.1	0.27	1.7	4.4	1,296	106	1,976	822	854	0.80	6.6	6.8
\$20,000 to \$34,999 .....	4.3	19.9	0.48	2.9	5.4	1,574	131	1,945	806	850	1.00	8.4	5.5
\$35,000 to \$49,999 .....	3.4	17.2	0.41	2.2	6.1	1,793	144	2,558	873	903	0.80	6.4	7.0
\$50,000 or More .....	3.7	26.0	0.61	3.0	7.9	2,303	183	3,070	871	868	0.86	6.8	6.7
<b>Below Poverty Line</b>													
100 Percent .....	1.3	4.5	0.11	0.4	5.1	1,496	121	1,364	984	1,003	1.11	9.0	17.9
125 Percent .....	2.2	7.1	0.17	0.8	4.7	1,384	110	1,552	898	912	0.99	7.9	12.3
150 Percent .....	3.0	10.0	0.23	1.2	4.8	1,418	113	1,642	896	910	0.96	7.7	10.6
<b>Age of Householder</b>													
Under 35 Years .....	4.5	20.3	0.51	2.7	5.6	1,651	142	1,958	895	902	0.94	8.1	6.9
35 to 59 Years .....	6.9	39.6	0.91	4.6	7.0	2,054	160	2,569	835	855	0.96	7.4	5.6
60 Years and Over .....	5.0	19.5	0.47	3.2	5.0	1,471	121	2,446	837	876	0.72	5.9	8.2

See footnotes at end of table.

**Table 47. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, Midwest Region Households, 1993 (Continued)**

Characteristics	Electricity Used for All Air Conditioning			Electricity Used for Central Air Conditioning <sup>2</sup>									RSE Row Factors
	Households (million)	Total Consumption (trillion 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 <sup>3</sup>	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
RSE Column Factor:	1.1	1.4 <sup>1</sup>	1.4 <sup>1</sup>	1.6	0.8 <sup>1</sup>	0.8 <sup>1</sup>	0.8 <sup>1</sup>	0.8	0.8	0.8	0.8 <sup>1</sup>	0.9 <sup>1</sup>	

**Midwest Region**

<b>Household Size</b>													
1 Person .....	4.2	12.7	0.32	2.4	3.9	1,136	97	1,606	849	858	0.83	7.1	8.0
2 to 4 Persons .....	10.8	58.3	1.39	7.3	6.6	1,941	157	2,560	863	887	0.88	7.1	4.5
5 or More Persons .....	1.4	8.3	0.19	0.9	7.1	2,087	157	2,888	763	808	0.95	7.1	8.2
<b>Cooling Degree-Days (CDD)-1993</b>													
2,000 or More .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1,000 to 1,999 .....	5.2	35.9	0.79	4.1	7.7	2,249	166	2,231	1,156	1,143	0.87	6.4	9.0
500 to 999 .....	8.4	36.5	0.94	4.8	5.6	1,629	146	2,348	748	748	0.93	8.3	7.0
Fewer than 500 .....	2.7	6.9	0.16	1.6	3.5	1,012	79	2,793	401	575	0.90	7.0	8.8
<b>Average Electricity Expenditures (cents per kWh)</b>													
Less than 6 .....	1.2	9.2	0.15	0.9	9.4	2,757	148	2,638	945	969	1.11	5.9	14.4
6 to Less than 9 .....	9.6	48.2	1.07	6.3	6.1	1,795	135	2,432	857	874	0.86	6.5	6.3
9 or More .....	5.6	21.9	0.68	3.4	5.1	1,483	157	2,197	817	848	0.83	8.7	7.0
<b>Number of Rooms Usually Air Conditioned</b>													
1 to 3 .....	4.3	10.2	0.24	0.8	3.5	1,014	77	758	904	868	1.48	11.2	12.1
4 to 6 .....	8.1	38.3	0.95	6.1	5.3	1,546	130	2,000	862	888	0.90	7.5	5.5
7 or More .....	4.0	30.8	0.70	3.6	7.9	2,313	180	3,343	822	851	0.84	6.6	6.3
<b>Frequency of Use of Air Conditioning<sup>5</sup></b>													
Only a Few Times .....	8.6	23.3	0.57	4.8	3.6	1,045	87	2,361	735	787	0.60	5.0	4.6
Quite a Bit .....	4.1	24.2	0.59	2.7	6.9	2,031	169	2,478	900	894	0.91	7.6	6.8
All Summer .....	3.7	31.8	0.73	3.0	9.2	2,705	211	2,297	994	993	1.18	9.2	6.2
<b>Age of Air Conditioning Equipment<sup>5</sup></b>													
Less than 5 Years .....	4.3	21.0	0.50	3.0	5.6	1,654	132	2,680	830	851	0.74	5.9	6.1
5 to 9 Years .....	4.2	20.9	0.49	2.3	6.7	1,973	158	2,631	834	851	0.90	7.2	6.1
10 or More Years .....	5.7	29.3	0.70	3.9	6.3	1,860	152	2,371	852	895	0.92	7.5	6.5
Don't Know .....	1.8	7.1	0.17	1.0	5.4	1,594	129	1,192	972	946	1.38	11.2	14.2

See footnotes at end of table.

**Table 47. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, Midwest Region Households, 1993 (Continued)**

Characteristics	Electricity Used for All Air Conditioning			Electricity Used for Central Air Conditioning <sup>2</sup>									RSE Row Factors
	Households (million)	Total Consumption (trillion 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 <sup>3</sup>	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
RSE Column Factor:	1.1	1.4 <sup>1</sup>	1.4 <sup>1</sup>	1.6	0.8 <sup>1</sup>	0.8 <sup>1</sup>	0.8 <sup>1</sup>	0.8	0.8	0.8	0.8 <sup>1</sup>	0.9 <sup>1</sup>	
<b>East North Central Division</b>	10.8	50.0	1.25	6.7	5.8	1,713	146	2,379	817	800	0.88	7.5	5.6
<b>Climate Zone<sup>3</sup></b>													
Under 2,000 CDD and Over 5,500 HDD .....	9.4	42.0	1.04	5.9	5.7	1,668	141	2,390	781	762	0.89	7.5	7.0
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>													
Single-Family .....	7.5	39.4	0.97	5.2	6.2	1,825	154	2,803	815	808	0.80	6.7	7.0
Mobile Home .....	0.6	4.0	0.10	0.4	7.5	2,209	200	1,095	735	759	2.74	24.8	15.4
Multifamily (2 or more units)	2.6	6.6	0.18	1.1	3.4	993	89	880	862	778	1.31	11.7	10.5
<b>Heated Floorspace (square feet)</b>													
Fewer than 1,000 .....	2.5	7.4	0.19	1.2	4.0	1,159	100	892	814	748	1.60	13.8	10.0
1,000 to 1,999 .....	3.7	17.3	0.45	2.3	5.8	1,709	150	1,853	867	854	1.06	9.3	8.3
2,000 or More .....	4.6	25.2	0.62	3.2	6.6	1,934	161	3,350	782	781	0.74	6.1	6.4
<b>Ownership of Unit</b>													
Owned .....	7.7	40.9	1.02	5.3	6.3	1,845	157	2,684	804	798	0.85	7.3	6.4
Rented .....	3.1	9.1	0.23	1.4	4.1	1,192	103	1,186	869	805	1.16	10.0	10.3
<b>Year of Construction</b>													
1939 or Before .....	2.4	9.2	0.23	0.7	6.2	1,811	153	2,478	848	867	0.86	7.3	16.4
1940 to 1979 .....	6.2	29.7	0.76	4.3	5.9	1,722	148	2,290	836	821	0.90	7.8	7.4
1980 or After <sup>4</sup> .....	2.2	11.1	0.27	1.8	5.6	1,652	137	2,555	763	725	0.85	7.0	9.9
<b>1993 Family Income</b>													
Less than \$10,000 .....	1.0	2.6	0.07	0.3	3.9	1,138	103	1,440	851	790	0.93	8.4	15.9
\$10,000 to \$19,999 .....	2.0	6.4	0.16	1.0	4.0	1,177	105	1,887	842	823	0.74	6.6	9.3
\$20,000 to \$34,999 .....	2.7	12.2	0.32	1.8	5.4	1,581	139	1,884	816	812	1.03	9.1	7.8
\$35,000 to \$49,999 .....	2.2	9.9	0.25	1.3	5.4	1,592	136	2,531	797	792	0.79	6.7	8.3
\$50,000 or More .....	2.8	18.9	0.46	2.3	7.5	2,200	181	3,039	814	786	0.89	7.3	8.3
<b>Below Poverty Line</b>													
100 Percent .....	0.7	2.2	0.06	0.2	5.1	1,481	145	1,500	868	823	1.14	11.2	20.2
125 Percent .....	1.2	3.5	0.09	0.4	4.2	1,234	108	1,580	820	771	0.95	8.4	13.4
150 Percent .....	1.7	4.9	0.12	0.6	4.3	1,255	111	1,541	851	799	0.96	8.4	12.0
<b>Age of Householder</b>													
Under 35 Years .....	2.7	11.8	0.32	1.5	5.6	1,653	157	2,048	846	789	0.95	9.1	7.5
35 to 59 Years .....	4.7	25.3	0.60	3.0	6.6	1,926	156	2,563	790	775	0.95	7.7	7.6
60 Years and Over .....	3.3	12.9	0.32	2.2	5.0	1,455	124	2,352	837	842	0.74	6.3	10.9
<b>Household Size</b>													
1 Person .....	2.9	8.0	0.21	1.6	3.6	1,052	93	1,538	832	809	0.82	7.3	10.1
2 to 4 Persons .....	7.0	37.1	0.93	4.6	6.5	1,903	163	2,621	819	804	0.89	7.6	5.9
5 or More Persons .....	0.8	4.9	0.11	0.5	7.3	2,151	164	2,939	754	725	0.97	7.4	12.0

See footnotes at end of table.

**Table 47. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, Midwest Region Households, 1993 (Continued)**

Characteristics	Electricity Used for All Air Conditioning			Electricity Used for Central Air Conditioning <sup>2</sup>									RSE Row Factors
	Households (million)	Total Consumption (trillion 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 <sup>3</sup>	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
RSE Column Factor:	1.1	1.4 <sup>1</sup>	1.4 <sup>1</sup>	1.6	0.8 <sup>1</sup>	0.8 <sup>1</sup>	0.8 <sup>1</sup>	0.8	0.8	0.8	0.8 <sup>1</sup>	0.9 <sup>1</sup>	
<b>West North Central Division</b>	5.6	29.4	0.64	3.8	6.4	1,875	139	2,360	910	1,002	0.87	6.5	6.3
<b>Climate Zone<sup>3</sup></b>													
Under 2,000 CDD and Over 5,500 HDD .....	3.8	15.5	0.34	2.5	5.0	1,461	108	2,184	728	851	0.92	6.8	14.3
Under 5,500 HDD .....	1.8	13.8	0.30	1.3	9.1	2,675	198	2,701	1,262	1,294	0.78	5.8	11.2
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>													
Single-Family .....	4.1	23.1	0.50	2.9	6.8	1,989	147	2,775	887	981	0.81	6.0	6.3
Mobile Home .....	0.4	2.3	0.05	0.3	6.0	1,750	135	986	696	817	2.55	19.7	13.7
Multifamily (2 or more units)	1.1	3.9	0.09	Q	4.8	1,394	103	1,019	1,115	1,182	1.23	9.0	20.0
<b>Heated Floorspace (square feet)</b>													
Fewer than 1,000 .....	1.4	5.2	0.12	0.8	4.8	1,410	108	982	970	1,040	1.48	11.4	15.0
1,000 to 1,999 .....	2.0	8.4	0.19	1.2	5.3	1,557	117	1,750	959	1,062	0.93	7.0	8.2
2,000 or More .....	2.3	15.7	0.34	1.9	7.7	2,270	165	3,315	854	948	0.80	5.8	7.7
<b>Ownership of Unit</b>													
Owned .....	4.1	23.1	0.50	2.9	6.8	1,980	146	2,712	872	968	0.84	6.2	6.8
Rented .....	1.5	6.3	0.14	Q	5.3	1,544	115	1,255	1,029	1,109	1.20	8.9	19.5
<b>Year of Construction</b>													
1939 or Before .....	1.6	6.4	0.14	0.7	5.5	1,620	124	2,664	690	816	0.88	6.8	10.1
1940 to 1979 .....	2.5	13.3	0.30	1.8	6.2	1,824	138	2,247	897	1,005	0.91	6.9	8.0
1980 or After <sup>4</sup> .....	1.5	9.7	0.20	1.3	7.1	2,075	147	2,361	1,041	1,092	0.84	6.0	14.7
<b>1993 Family Income</b>													
Less than \$10,000 .....	0.7	2.5	0.05	0.3	5.2	1,514	107	1,362	1,089	1,131	1.02	7.2	23.7
\$10,000 to \$19,999 .....	1.2	4.7	0.10	0.7	5.0	1,469	108	2,105	792	900	0.88	6.5	7.6
\$20,000 to \$34,999 .....	1.6	7.7	0.17	1.1	5.3	1,564	118	2,046	788	912	0.97	7.3	6.2
\$35,000 to \$49,999 .....	1.2	7.4	0.16	1.0	7.0	2,058	154	2,594	973	1,049	0.82	6.1	10.1
\$50,000 or More .....	0.9	7.1	0.15	0.8	8.9	2,612	190	3,166	1,042	1,114	0.79	5.8	11.4
<b>Below Poverty Line</b>													
100 Percent .....	0.6	2.3	0.05	Q	5.1	1,506	106	1,277	1,058	1,118	1.11	7.8	24.7
125 Percent .....	1.0	3.7	0.08	0.4	5.2	1,523	112	1,526	970	1,042	1.03	7.6	18.7
150 Percent .....	1.3	5.1	0.11	0.6	5.3	1,565	115	1,733	936	1,011	0.96	7.1	15.8
<b>Age of Householder</b>													
Under 35 Years .....	1.8	8.5	0.19	1.2	5.6	1,649	123	1,849	953	1,040	0.94	7.0	11.0
35 to 59 Years .....	2.2	14.3	0.31	1.6	7.9	2,305	167	2,581	925	1,010	0.97	7.0	6.4
60 Years and Over .....	1.6	6.6	0.15	1.0	5.1	1,506	115	2,640	837	946	0.68	5.2	12.1

See footnotes at end of table.

**Table 47. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, Midwest Region Households, 1993 (Continued)**

Characteristics	Electricity Used for All Air Conditioning			Electricity Used for Central Air Conditioning <sup>2</sup>									RSE Row Factors
	Households (million)	Total Consumption (trillion 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 <sup>3</sup>	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
RSE Column Factor:	1.1	1.4 <sup>1</sup>	1.4 <sup>1</sup>	1.6	0.8 <sup>1</sup>	0.8 <sup>1</sup>	0.8 <sup>1</sup>	0.8	0.8	0.8	0.8 <sup>1</sup>	0.9 <sup>1</sup>	

**Household Size**

1 Person .....	1.3	4.7	0.11	0.7	4.5	1,324	106	1,756	887	967	0.85	6.8	13.7
2 to 4 Persons .....	3.8	21.2	0.45	2.7	6.8	2,006	146	2,457	937	1,025	0.87	6.3	6.2
5 or More Persons .....	0.6	3.4	0.07	0.4	6.8	2,007	150	2,825	775	910	0.92	6.8	10.6

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

<sup>2</sup> Some 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.

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

<sup>4</sup> Does not include all new construction for 1993.

<sup>5</sup> 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.

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. • This table reflects only those households that used their air conditioning equipment. See Appendix B, "Quality of the Data," in *Household Energy Consumption and Expenditures 1993* for a discussion of households that had air-conditioning equipment but did not use it. • See "Glossary" in *Household Energy Consumption and Expenditures 1993* 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.

**Table 48. Electricity Consumption and Expenditures for Room Air Conditioning, per Midwest Region Households, 1993**

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 <sup>2</sup>	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
<b>Midwest Region</b>										
<b>Total Region</b> .....	5.9	2.7	783	66	1,092	775	783	0.93	7.8	5.1
<b>Climate Zone<sup>2</sup></b>										
Under 2,000 CDD and Over 5,500 HDD .....	4.7	2.3	688	57	1,070	683	699	0.94	7.8	6.7
Under 5,500 HDD .....	1.1	4.0	1,184	101	1,181	1,163	1,138	0.86	7.4	16.8
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>										
Single-Family .....	3.5	3.0	867	70	1,349	774	793	0.83	6.7	5.9
Mobile Home .....	0.4	4.2	1,221	105	669	767	789	2.38	20.5	14.0
Multifamily (2 or more units) .....	2.0	1.9	557	51	709	779	766	1.01	9.3	7.5
<b>Heated Floorspace (square feet)</b>										
Fewer than 1,000 .....	1.9	2.2	648	55	625	809	806	1.28	10.8	8.2
1,000 to 1,999 .....	2.2	2.7	786	67	1,083	766	781	0.95	8.1	7.9
2,000 or More .....	1.8	3.1	920	76	1,585	751	764	0.77	6.4	8.6
<b>Ownership of Unit</b>										
Owned .....	3.6	3.0	883	73	1,324	759	778	0.88	7.3	5.7
Rented .....	2.3	2.1	629	54	731	800	793	1.08	9.3	7.0
<b>Year of Construction</b>										
1939 or Before .....	2.7	2.8	832	67	1,236	788	816	0.85	6.8	6.5
1940 to 1979 .....	2.6	2.5	731	65	992	761	753	0.97	8.6	7.0
1980 or After <sup>3</sup> .....	0.5	2.7	803	64	852	780	772	1.21	9.7	12.9
<b>1993 Family Income</b>										
Less than \$10,000 .....	1.1	2.1	602	50	821	765	804	0.96	7.9	10.2
\$10,000 to \$19,999 .....	1.6	2.4	698	57	1,106	785	779	0.80	6.6	7.2
\$20,000 to \$34,999 .....	1.4	2.9	849	70	1,105	771	789	1.00	8.2	9.9
\$35,000 to \$49,999 .....	1.1	3.1	914	80	1,133	789	786	1.02	9.0	11.2
\$50,000 or More .....	0.7	3.1	918	79	1,398	754	743	0.87	7.5	13.0
<b>Below Poverty Line</b>										
100 Percent .....	0.9	2.5	733	59	732	778	832	1.29	10.4	10.7
125 Percent .....	1.4	2.3	680	55	905	756	808	0.99	8.1	7.8
150 Percent .....	1.8	2.3	688	55	904	763	802	1.00	7.9	6.6
<b>Age of Householder</b>										
Under 35 Years .....	1.8	2.7	793	68	837	787	826	1.20	10.3	7.8
35 to 59 Years .....	2.3	3.2	938	78	1,222	811	796	0.95	7.9	6.6
60 Years and Over .....	1.7	1.9	567	48	1,179	715	723	0.67	5.6	7.6
<b>Household Size</b>										
1 Person .....	1.8	2.0	576	50	884	818	799	0.80	6.9	9.6
2 to 4 Persons .....	3.6	2.9	846	71	1,183	754	769	0.95	7.9	5.9
5 or More Persons .....	0.5	3.6	1,069	87	1,176	774	830	1.17	9.5	10.2

See footnotes at end of table.

**Table 48. Electricity Consumption and Expenditures for Room Air Conditioning, per Midwest Region Households, 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 <sup>2</sup>	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
RSE Column Factor:	1.7	1.1 <sup>1</sup>	1.1 <sup>1</sup>	1.2 <sup>1</sup>	0.9	0.8	0.7	0.9 <sup>1</sup>	1.0 <sup>1</sup>	

**Midwest Region**

**Cooling Degree-Days (CDD)-1993**

	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
2,000 or More .....	1.2	4.0	1,186	100	1,118	1,185	1,170	0.90	7.5	13.3
1,000 to 1,999 .....	3.6	2.7	786	66	1,104	754	721	0.95	8.0	6.7
Fewer than 500 .....	1.1	1.1	337	27	1,024	400	570	0.82	6.7	7.0

**Average Electricity Expenditures (cents per kWh)**

	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Less than 6 .....	3.3	3.0	880	49	897	883	981	1.11	6.2	NF
6 to Less than 9 .....	2.1	2.2	635	68	936	808	778	0.84	9.0	8.0
9 or More .....	3.3	3.0	866	67	1,213	742	764	0.96	7.4	6.9

**Number of Rooms Usually Air Conditioned**

	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 Room .....	1.0	1.3	385	31	336	775	768	1.48	11.9	12.2
2 Rooms .....	1.2	2.2	636	53	687	814	803	1.14	9.5	8.0
3 or More .....	3.7	3.2	934	79	1,416	763	781	0.86	7.3	5.4

**Frequency of Use of Air Conditioning**

	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Only a Few Times .....	3.8	1.6	472	40	1,057	727	747	0.61	5.3	5.4
Quite a Bit .....	1.4	4.0	1,165	97	1,071	846	839	1.29	10.7	7.7
All Summer .....	0.7	5.8	1,702	141	1,319	893	869	1.44	11.9	7.9

**Age of Air Conditioning Equipment**

	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Less than 5 Years .....	1.3	2.9	863	73	1,215	763	760	0.93	7.9	9.1
5 to 9 Years .....	1.9	2.8	807	66	1,124	805	819	0.89	7.3	6.9
10 or More Years .....	1.9	2.6	753	64	1,092	760	773	0.91	7.8	8.9
Don't Know .....	0.8	2.3	669	57	811	759	764	1.09	9.3	10.5

**Number of Room Air Conditioners**

	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 .....	4.0	2.3	673	56	919	756	768	0.97	8.0	5.9
2 .....	1.5	3.4	992	85	1,339	814	824	0.91	7.8	7.7
3 or More .....	0.3	3.9	1,153	99	2,042	826	782	0.68	5.9	18.1

See footnotes at end of table.

**Table 48. Electricity Consumption and Expenditures for Room Air Conditioning, per Midwest Region Households, 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 <sup>2</sup>	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
RSE Column Factor:	1.7	1.1 <sup>1</sup>	1.1 <sup>1</sup>	1.2 <sup>1</sup>	0.9	0.8	0.7	0.9 <sup>1</sup>	1.0 <sup>1</sup>	
<b>East North Central Division</b> .....	4.1	2.7	783	68	1,132	768	729	0.90	7.8	6.7
<b>Climate Zone<sup>2</sup></b>										
Under 2,000 CDD and Over 5,500 HDD .....	3.4	2.4	699	60	1,074	710	669	0.92	7.8	7.4
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>										
Single-Family .....	2.4	3.1	896	75	1,438	774	743	0.80	6.7	8.0
Mobile Home .....	0.2	4.2	1,239	105	713	637	644	2.72	23.1	15.3
Multifamily (2 or more units) .....	1.5	1.9	548	53	707	774	719	1.00	9.7	8.4
<b>Heated Floorspace (square feet)</b>										
Fewer than 1,000 .....	1.2	2.1	601	53	621	769	709	1.26	11.1	10.7
1,000 to 1,999 .....	1.4	2.8	812	72	1,132	782	744	0.92	8.1	10.6
2,000 or More .....	1.4	3.1	910	77	1,572	752	732	0.77	6.5	10.4
<b>Ownership of Unit</b>										
Owned .....	2.4	3.1	914	78	1,430	767	733	0.83	7.1	7.8
Rented .....	1.7	2.1	603	54	724	769	724	1.08	9.8	8.1
<b>Year of Construction</b>										
1939 or Before .....	1.7	2.9	849	72	1,313	797	774	0.81	6.9	8.2
1940 to 1979 .....	1.9	2.4	713	65	1,022	747	689	0.93	8.5	8.5
1980 or After <sup>3</sup> .....	0.4	2.8	827	68	871	741	727	1.28	10.5	13.4
<b>1993 Family Income</b>										
Less than \$10,000 .....	0.7	1.9	561	47	796	742	726	0.95	8.0	12.3
\$10,000 to \$19,999 .....	1.0	2.4	703	60	1,156	758	701	0.80	6.8	9.0
\$20,000 to \$34,999 .....	0.9	2.7	790	69	1,213	753	712	0.86	7.6	12.2
\$35,000 to \$49,999 .....	0.9	3.1	912	81	1,127	808	773	1.00	8.9	12.8
\$50,000 or More .....	0.5	3.3	974	86	1,386	770	739	0.91	8.1	15.1
<b>Below Poverty Line</b>										
100 Percent .....	0.5	2.4	710	59	710	738	751	1.35	11.3	14.0
125 Percent .....	0.8	2.3	671	56	844	718	716	1.11	9.2	10.6
150 Percent .....	1.1	2.3	664	54	889	716	712	1.04	8.5	7.9
<b>Age of Householder</b>										
Under 35 Years .....	1.2	2.7	794	72	859	758	766	1.22	11.1	9.9
35 to 59 Years .....	1.7	3.2	946	80	1,269	811	751	0.92	7.7	8.3
60 Years and Over .....	1.2	1.8	539	47	1,224	716	659	0.61	5.4	10.2
<b>Household Size</b>										
1 Person .....	1.2	1.7	508	45	892	796	720	0.72	6.4	12.5
2 to 4 Persons .....	2.5	3.0	881	76	1,229	756	729	0.95	8.2	7.3
5 or More Persons .....	0.3	3.6	1,055	90	1,282	750	763	1.10	9.4	13.6

See footnotes at end of table.

**Table 48. Electricity Consumption and Expenditures for Room Air Conditioning, per Midwest Region Households, 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 <sup>2</sup>	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
<b>West North Central Division</b> .....	1.8	2.7	785	60	1,001	792	906	0.99	7.6	5.2
<b>Climate Zone<sup>2</sup></b>										
Under 2,000 CDD and Over 5,500 HDD .....	1.3	2.2	658	51	1,062	612	778	1.01	7.8	11.9
Under 5,500 HDD .....	Q	3.9	1,129	86	837	1,281	1,255	1.05	8.0	20.4
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>										
Single-Family .....	1.2	2.8	809	60	1,170	772	894	0.90	6.7	7.0
Mobile Home .....	0.2	4.1	1,200	105	615	926	967	2.11	18.4	21.8
Multifamily (2 or more units) .....	0.5	2.0	587	46	713	797	917	1.03	8.1	15.8
<b>Heated Floorspace (square feet)</b>										
Fewer than 1,000 .....	0.6	2.5	737	58	631	886	989	1.32	10.4	11.1
1,000 to 1,999 .....	0.8	2.5	738	57	991	737	850	1.01	7.9	10.1
2,000 or More .....	0.4	3.3	955	70	1,630	745	880	0.79	5.8	14.4
<b>Ownership of Unit</b>										
Owned .....	1.2	2.8	823	64	1,119	745	864	0.99	7.6	6.7
Rented .....	0.6	2.4	705	54	754	891	996	1.05	8.0	11.1
<b>Year of Construction</b>										
1939 or Before .....	1.0	2.7	799	57	1,096	772	892	0.94	6.8	9.6
1940 to 1979 .....	0.7	2.7	777	66	911	800	923	1.07	9.0	11.6
1980 or After <sup>3</sup> .....	Q	2.5	725	53	790	908	919	1.01	7.4	23.2
<b>1993 Family Income</b>										
Less than \$10,000 .....	0.4	2.3	671	53	863	804	936	0.97	7.7	16.4
\$10,000 to \$19,999 .....	0.5	2.4	690	52	1,014	836	925	0.81	6.2	11.6
\$20,000 to \$34,999 .....	0.5	3.2	949	71	917	801	923	1.29	9.6	15.3
\$35,000 to \$49,999 .....	0.2	3.1	920	77	1,158	697	851	1.14	9.6	21.3
\$50,000 or More .....	0.1	2.4	691	51	1,448	690	762	0.69	5.1	23.1
<b>Below Poverty Line</b>										
100 Percent .....	0.4	2.6	768	60	763	837	952	1.20	9.3	17.1
125 Percent .....	0.6	2.4	693	55	986	807	930	0.87	6.9	11.5
150 Percent .....	0.7	2.5	723	56	927	835	938	0.93	7.2	10.5
<b>Age of Householder</b>										
Under 35 Years .....	0.6	2.7	790	58	788	853	957	1.18	8.6	11.3
35 to 59 Years .....	0.7	3.1	917	73	1,105	810	907	1.02	8.2	11.2
60 Years and Over .....	0.6	2.1	625	48	1,087	713	856	0.81	6.2	9.2
<b>Household Size</b>										
1 Person .....	0.6	2.5	726	60	865	868	977	0.97	8.0	13.4
2 to 4 Persons .....	1.1	2.6	764	57	1,077	748	861	0.95	7.1	7.6
5 or More Persons .....	0.2	3.7	1,097	80	968	822	962	1.38	10.1	13.5

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

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

<sup>3</sup> Does not include all new construction for 1993.

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. • This table reflects only those households that used their air conditioning equipment. See Appendix B, "Quality of the Data," in *Household Energy Consumption and Expenditures 1993* for a discussion of households that had air-conditioning equipment but did not use it. • See "Glossary" in *Household Energy Consumption and Expenditures 1993* 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.

**Table 49. Total Electricity and Natural Gas Consumption and Expenditures for Water Heating in Midwest Region Households, 1993**

Characteristics	Electricity				Natural Gas				RSE Row Factors
	Households (million)	Total Consumed		Total Expenditures (billion dollars)	Households (million)	Total Consumed		Total Expenditures (billion dollars)	
		(trillion Btu)	(billion kWh)			(trillion Btu)	(billion cubic feet)		
RSE Column Factor:	1.2	1.4 <sup>1</sup>	1.4 <sup>1</sup>	1.4 <sup>1</sup>	0.7	0.7 <sup>1</sup>	0.7 <sup>1</sup>	0.7 <sup>1</sup>	

**Midwest Region**

<b>Total Region</b> .....	6.9	70.2	20.6	1.54	15.4	429.4	418	2.31	7.8
<b>Climate Zone<sup>2</sup></b>									
Under 2,000 CDD and Over 5,500 HDD .....	5.6	58.0	17.0	1.27	13.1	361.6	352	1.94	11.5
Under 5,500 HDD .....	1.3	12.2	3.6	0.27	2.3	67.8	66	0.37	40.2
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>									
Single-Family .....	4.8	51.1	15.0	1.11	10.9	311.5	303	1.67	9.0
Mobile Home .....	0.7	7.3	2.1	0.18	0.5	13.6	13	0.07	31.5
Multifamily (2 or more units) .....	1.3	11.8	3.5	0.26	3.9	104.3	101	0.57	14.4
<b>Heated Floorspace (square feet)</b>									
Fewer than 1,000 .....	2.0	17.5	5.1	0.40	3.6	85.0	83	0.46	10.9
1,000 to 1,999 .....	2.3	22.4	6.6	0.49	5.5	156.3	152	0.84	11.0
2,000 or More .....	2.5	30.3	8.9	0.65	6.2	188.1	183	1.01	10.2
<b>Ownership of Unit</b>									
Owned .....	5.0	52.1	15.3	1.14	10.3	294.9	287	1.59	9.4
Rented .....	1.9	18.2	5.3	0.40	5.0	134.5	131	0.72	11.5
<b>Year of Construction</b>									
1939 or Before .....	2.0	20.5	6.0	0.47	5.0	140.2	136	0.76	13.1
1940 to 1979 .....	3.4	34.6	10.1	0.77	7.9	218.3	212	1.16	9.3
1980 or After <sup>3</sup> .....	1.5	15.1	4.4	0.30	2.4	70.9	69	0.39	21.3
<b>1993 Family Income</b>									
Less than \$10,000 .....	0.9	7.9	2.3	0.17	1.8	43.8	43	0.23	17.9
\$10,000 to \$19,999 .....	1.8	16.1	4.7	0.36	3.3	80.2	78	0.44	11.9
\$20,000 to \$34,999 .....	1.7	17.5	5.1	0.40	3.9	107.4	105	0.58	12.9
\$35,000 to \$49,999 .....	1.3	15.4	4.5	0.33	2.9	87.9	85	0.47	12.0
\$50,000 or More .....	1.0	13.3	3.9	0.27	3.4	110.1	107	0.58	12.1
<b>Below Poverty Line</b>									
100 Percent .....	0.8	9.0	2.6	0.20	1.6	46.8	46	0.25	20.1
125 Percent .....	1.3	13.5	4.0	0.30	2.4	66.7	65	0.36	15.6
150 Percent .....	1.9	18.7	5.5	0.42	3.1	87.5	85	0.47	11.6
<b>Age of Householder</b>									
Under 35 Years .....	1.9	20.4	6.0	0.46	4.4	134.2	130	0.72	9.8
35 to 59 Years .....	2.8	36.1	10.6	0.76	6.6	203.4	198	1.10	9.9
60 Years and Over .....	2.1	13.7	4.0	0.32	4.4	91.9	89	0.50	13.0
<b>Household Size</b>									
1 Person .....	1.8	9.0	2.6	0.21	4.1	72.8	71	0.40	11.7
2 to 4 Persons .....	4.4	49.7	14.6	1.07	9.8	296.5	288	1.59	9.1
5 or More Persons .....	0.7	11.4	3.4	0.25	1.4	60.0	58	0.33	13.2

See footnotes at end of table.

**Table 49. Total Electricity and Natural Gas Consumption and Expenditures for Water Heating in Midwest Region Households, 1993 (Continued)**

Characteristics	Electricity				Natural Gas				RSE Row Factors
	Households (million)	Total Consumed		Total Expenditures (billion dollars)	Households (million)	Total Consumed		Total Expenditures (billion dollars)	
		(trillion Btu)	(billion kWh)			(trillion Btu)	(billion cubic feet)		
	1.2	1.4 <sup>1</sup>	1.4 <sup>1</sup>	1.4 <sup>1</sup>	0.7	0.7 <sup>1</sup>	0.7 <sup>1</sup>	0.7 <sup>1</sup>	
RSE Column Factor:	1.2	1.4 <sup>1</sup>	1.4 <sup>1</sup>	1.4 <sup>1</sup>	0.7	0.7 <sup>1</sup>	0.7 <sup>1</sup>	0.7 <sup>1</sup>	
<b>East North Central Division</b> .....	4.2	42.1	12.3	0.94	11.7	331.8	323	1.79	8.3
<b>Climate Zone<sup>2</sup></b>									
Under 2,000 CDD and Over 5,500 HDD .....	3.5	37.1	10.9	0.80	10.5	296.4	288	1.60	13.3
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>									
Single-Family .....	3.0	31.2	9.2	0.68	8.1	233.9	228	1.26	11.0
Mobile Home .....	0.5	5.1	1.5	0.13	0.4	10.2	10	0.05	38.4
Multifamily (2 or more units) .....	0.7	5.8	1.7	0.13	3.3	87.6	85	0.48	13.5
<b>Heated Floorspace (square feet)</b>									
Fewer than 1,000 .....	1.2	10.0	2.9	0.24	2.8	63.2	61	0.35	11.3
1,000 to 1,999 .....	1.4	13.5	4.0	0.30	4.2	122.4	119	0.66	11.5
2,000 or More .....	1.6	18.5	5.4	0.40	4.7	146.2	142	0.79	13.0
<b>Ownership of Unit</b>									
Owned .....	3.2	32.9	9.6	0.73	7.7	225.0	219	1.22	10.5
Rented .....	1.0	9.2	2.7	0.21	4.0	106.8	104	0.58	9.3
<b>Year of Construction</b>									
1939 or Before .....	1.2	12.3	3.6	0.28	3.5	101.7	99	0.56	15.3
1940 to 1979 .....	2.3	23.0	6.7	0.52	6.4	175.8	171	0.93	11.2
1980 or After <sup>3</sup> .....	0.7	6.8	2.0	0.14	1.9	54.3	53	0.30	21.5
<b>1993 Family Income</b>									
Less than \$10,000 .....	0.5	4.1	1.2	0.09	1.4	35.6	35	0.19	18.4
\$10,000 to \$19,999 .....	1.2	10.1	3.0	0.23	2.5	61.4	60	0.33	14.8
\$20,000 to \$34,999 .....	1.0	9.3	2.7	0.22	2.9	80.1	78	0.44	17.2
\$35,000 to \$49,999 .....	0.8	9.1	2.7	0.20	2.1	66.4	65	0.36	15.5
\$50,000 or More .....	0.8	9.5	2.8	0.20	2.7	88.3	86	0.47	14.0
<b>Below Poverty Line</b>									
100 Percent .....	0.4	5.1	1.5	0.12	1.3	38.9	38	0.21	22.2
125 Percent .....	0.7	7.4	2.2	0.17	1.9	53.2	52	0.28	18.1
150 Percent .....	1.0	10.0	2.9	0.23	2.4	67.8	66	0.36	12.3
<b>Age of Householder</b>									
Under 35 Years .....	1.1	10.7	3.1	0.26	3.2	99.9	97	0.54	11.0
35 to 59 Years .....	1.8	22.3	6.5	0.47	5.1	159.0	155	0.86	11.8
60 Years and Over .....	1.3	9.0	2.6	0.21	3.4	72.9	71	0.40	14.8
<b>Household Size</b>									
1 Person .....	1.1	5.5	1.6	0.13	3.2	57.0	55	0.31	13.8
2 to 4 Persons .....	2.7	30.1	8.8	0.67	7.4	228.0	222	1.22	10.5
5 or More Persons .....	0.4	6.5	1.9	0.14	1.1	46.9	46	0.26	15.1

See footnotes at end of table.

**Table 49. Total Electricity and Natural Gas Consumption and Expenditures for Water Heating in Midwest Region Households, 1993 (Continued)**

Characteristics	Electricity				Natural Gas				RSE Row Factors
	Households (million)	Total Consumed		Total Expenditures (billion dollars)	Households (million)	Total Consumed		Total Expenditures (billion dollars)	
		(trillion Btu)	(billion kWh)			(trillion Btu)	(billion cubic feet)		
RSE Column Factor:	1.2	1.4 <sup>1</sup>	1.4 <sup>1</sup>	1.4 <sup>1</sup>	0.7	0.7 <sup>1</sup>	0.7 <sup>1</sup>	0.7 <sup>1</sup>	
<b>West North Central Division</b> .....	2.7	28.1	8.2	0.60	3.7	97.6	95	0.52	15.6
<b>Climate Zone<sup>2</sup></b>									
Under 2,000 CDD and Over 5,500 HDD .....	2.1	20.9	6.1	0.46	2.6	65.2	63	0.35	23.1
Under 5,500 HDD .....	Q	Q	Q	Q	1.1	32.4	31	0.17	18.9
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>									
Single-Family .....	1.8	19.8	5.8	0.43	2.9	77.5	75	0.41	14.9
Mobile Home .....	0.2	2.2	0.7	0.05	Q	Q	Q	Q	32.8
Multifamily (2 or more units) .....	0.6	Q	Q	Q	0.6	16.7	16	0.09	32.3
<b>Heated Floorspace (square feet)</b>									
Fewer than 1,000 .....	0.8	7.5	2.2	0.16	0.9	21.8	21	0.12	21.4
1,000 to 1,999 .....	0.9	8.9	2.6	0.19	1.3	33.9	33	0.18	23.0
2,000 or More .....	1.0	11.8	3.5	0.25	1.5	41.9	41	0.22	14.6
<b>Ownership of Unit</b>									
Owned .....	1.8	19.2	5.6	0.41	2.7	69.9	68	0.37	17.9
Rented .....	0.9	9.0	2.6	0.19	1.0	27.7	27	0.15	25.5
<b>Year of Construction</b>									
1939 or Before .....	0.8	8.2	2.4	0.19	1.5	38.5	37	0.20	24.4
1940 to 1979 .....	1.1	11.6	3.4	0.25	1.6	42.5	41	0.23	15.5
1980 or After <sup>3</sup> .....	Q	8.3	2.4	Q	0.6	16.6	16	0.09	18.9
<b>1993 Family Income</b>									
Less than \$10,000 .....	0.5	Q	Q	Q	0.4	8.2	8	0.04	30.0
\$10,000 to \$19,999 .....	0.7	6.0	1.8	0.13	0.8	18.8	18	0.10	17.7
\$20,000 to \$34,999 .....	0.8	8.2	2.4	0.18	1.0	27.3	27	0.14	19.9
\$35,000 to \$49,999 .....	0.5	6.3	1.8	0.14	0.8	21.4	21	0.12	17.6
\$50,000 or More .....	0.3	3.7	1.1	0.07	0.7	21.9	21	0.12	24.6
<b>Below Poverty Line</b>									
100 Percent .....	0.4	Q	Q	Q	0.3	7.9	8	0.04	27.7
125 Percent .....	0.6	6.2	1.8	0.13	0.6	13.5	13	0.07	30.6
150 Percent .....	0.9	8.7	2.5	0.19	0.8	19.7	19	0.11	23.8
<b>Age of Householder</b>									
Under 35 Years .....	0.9	9.7	2.8	0.20	1.2	34.3	33	0.18	16.1
35 to 59 Years .....	1.0	13.8	4.0	0.29	1.5	44.3	43	0.24	17.3
60 Years and Over .....	0.8	4.7	1.4	0.11	1.0	19.0	18	0.10	25.2
<b>Household Size</b>									
1 Person .....	0.7	3.5	1.0	0.08	0.9	15.9	15	0.08	21.4
2 to 4 Persons .....	1.7	19.6	5.7	0.41	2.4	68.6	67	0.37	17.0
5 or More Persons .....	0.3	5.0	1.5	0.11	0.3	13.2	13	0.07	24.1

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

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

<sup>3</sup> Does not include all new construction for 1993.

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" in *Household Energy Consumption and Expenditures 1993* 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, E, and F of the 1993 Residential Energy Consumption Survey.

**Table 50. Total LPG Consumption and Expenditures for Water Heating in Midwest Region Households, 1993**

Characteristics	Liquefied Petroleum Gas				RSE Row Factors
	Households (million)	Total Consumed		Total Expenditures (billion dollars)	
		(quad-trillion Btu)	(billion gallons)		
RSE Column Factor:	1.0	1.0 <sup>1</sup>	1.0 <sup>1</sup>	1.0 <sup>1</sup>	
<b>Total Region</b> .....	1.0	22.0	0.24	0.20	22.3
East North Central Division .....	0.4	11.2	0.12	0.10	24.3
West North Central Division .....	0.6	10.8	0.12	0.10	35.5
<b>Climate Zone<sup>2</sup></b>					
Under 2,000 CDD and Over 5,500 HDD .....	0.7	17.1	0.19	0.15	22.2
Under 5,500 HDD .....	Q	Q	Q	Q	NF
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>					
Single-Family .....	0.8	17.5	0.19	0.16	26.5
Mobile Home .....	0.2	4.3	0.05	0.04	35.4
Multifamily (2 or more units) .....	Q	Q	Q	Q	NF
<b>Heated Floorspace (square feet)</b>					
Fewer than 1,000 .....	0.2	4.8	0.05	0.04	33.0
1,000 to 1,999 .....	0.4	8.1	0.09	0.07	35.1
2,000 or More .....	0.4	9.1	0.10	0.08	22.6
<b>Ownership of Unit</b>					
Owned .....	0.8	18.6	0.20	0.17	21.5
Rented .....	0.2	3.4	0.04	0.03	36.4
<b>Year of Construction</b>					
1939 or Before .....	0.4	8.7	0.10	0.08	35.4
1940 to 1979 .....	0.4	7.2	0.08	0.06	21.3
1980 or After <sup>3</sup> .....	0.3	6.1	0.07	0.05	40.3
<b>1993 Family Income</b>					
Less than \$10,000 .....	0.2	3.4	0.04	0.03	42.4
\$10,000 to \$19,999 .....	0.2	4.0	0.04	0.04	16.6
\$20,000 to \$34,999 .....	0.4	6.3	0.07	0.06	31.6
\$35,000 to \$49,999 .....	0.2	5.4	0.06	0.05	35.7
\$50,000 or More .....	0.1	2.8	0.03	0.02	26.2
<b>Below Poverty Line</b>					
100 Percent .....	0.1	3.2	0.03	0.03	36.4
125 Percent .....	0.3	5.9	0.06	0.05	25.7
150 Percent .....	0.3	7.1	0.08	0.06	29.9
<b>Age of Householder</b>					
Under 35 Years .....	0.2	4.8	0.05	0.04	31.1
35 to 59 Years .....	0.5	12.4	0.14	0.11	18.3
60 Years and Over .....	0.3	Q	Q	Q	48.4
<b>Household Size</b>					
1 Person .....	0.2	3.0	0.03	0.03	31.8
2 to 4 Persons .....	0.7	14.8	0.16	0.13	23.6
5 or More Persons .....	0.1	4.1	0.05	0.04	41.8

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

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

<sup>3</sup> Does not include all new construction for 1993.

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: • Data in the East North Central and West North Central Divisions are not presented separately due to a scarcity of data. • 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" in *Household Energy Consumption and Expenditures 1993* 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 D of the 1993 Residential Energy Consumption Survey.

**Table 51. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per Midwest Region Households, 1993**

Characteristics	Electricity					Natural Gas					RSE Row Factors
	Households (million)	Consumption		Expenditures (dollars)	Electricity Water-Heating Intensity (kWh per household member)	Households (million)	Consumption		Expenditures (dollars)	Natural Gas Water-Heating Intensity (1000 cubic feet per household member)	
		(million Btu)	(kWh)				(million Btu)	(1000 cubic feet)			
RSE Column Factor:	3.1	1.1 <sup>1</sup>	1.1 <sup>1</sup>	1.2 <sup>1</sup>	1.0 <sup>1</sup>	1.8	0.6 <sup>1</sup>	0.6 <sup>1</sup>	0.6 <sup>1</sup>	0.6 <sup>1</sup>	

**Midwest Region**

<b>Total Region</b> .....	6.9	10.2	2,988	224	1,202	15.4	28.0	27.2	151	10.5	3.0
<b>Climate Zone<sup>2</sup></b>											
Under 2,000 CDD and Over 5,500 HDD .....	5.6	10.4	3,040	226	1,204	13.1	27.7	26.9	149	10.5	3.4
Under 5,500 HDD .....	1.3	9.4	2,764	212	1,190	2.3	29.5	28.7	160	10.8	7.9
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>											
Single-Family .....	4.8	10.6	3,120	231	1,185	10.9	28.5	27.7	153	10.0	3.2
Mobile Home .....	0.7	9.9	2,888	236	1,128	0.5	28.3	27.6	148	10.8	12.6
Multifamily (2 or more units) .....	1.3	8.8	2,573	190	1,338	3.9	26.5	25.8	145	12.6	7.7
<b>Heated Floorspace (square feet)</b>											
Fewer than 1,000 .....	2.0	8.6	2,519	197	1,263	3.6	23.5	22.8	128	12.7	6.4
1,000 to 1,999 .....	2.3	9.7	2,837	212	1,161	5.5	28.3	27.6	153	10.4	4.2
2,000 or More .....	2.5	11.9	3,501	256	1,200	6.2	30.2	29.4	162	9.8	4.0
<b>Ownership of Unit</b>											
Owned .....	5.0	10.5	3,071	229	1,182	10.3	28.5	27.8	154	10.1	3.4
Rented .....	1.9	9.5	2,773	209	1,263	5.0	26.8	26.0	144	11.5	6.1
<b>Year of Construction</b>											
1939 or Before .....	2.0	10.2	2,997	232	1,150	5.0	28.2	27.4	153	10.5	7.2
1940 to 1979 .....	3.4	10.1	2,963	225	1,237	7.9	27.5	26.7	146	10.4	3.8
1980 or After <sup>3</sup> .....	1.5	10.3	3,032	208	1,197	2.4	29.1	28.3	160	10.9	7.0
<b>1993 Family Income</b>											
Less than \$10,000 .....	0.9	8.4	2,463	183	1,259	1.8	24.0	23.3	127	11.8	10.2
\$10,000 to \$19,999 .....	1.8	8.7	2,562	197	1,149	3.3	24.2	23.5	132	11.0	5.2
\$20,000 to \$34,999 .....	1.7	10.1	2,953	231	1,248	3.9	27.6	26.8	150	10.6	5.0
\$35,000 to \$49,999 .....	1.3	11.6	3,398	252	1,174	2.9	30.2	29.3	163	9.9	5.4
\$50,000 or More .....	1.0	12.8	3,758	259	1,212	3.4	32.3	31.4	171	10.2	4.7
<b>Below Poverty Line</b>											
100 Percent .....	0.8	11.1	3,267	246	1,194	1.6	28.4	27.6	150	10.5	9.8
125 Percent .....	1.3	10.4	3,041	231	1,102	2.4	27.6	26.9	148	9.9	7.8
150 Percent .....	1.9	10.0	2,939	226	1,095	3.1	27.9	27.1	150	10.2	6.8
<b>Age of Householder</b>											
Under 35 Years .....	1.9	10.5	3,081	236	1,134	4.4	30.7	29.8	164	10.2	4.4
35 to 59 Years .....	2.8	12.8	3,741	270	1,279	6.6	30.8	30.0	166	10.3	3.4
60 Years and Over .....	2.1	6.5	1,896	150	1,124	4.4	21.0	20.4	114	11.6	5.9
<b>Household Size</b>											
1 Person .....	1.8	5.1	1,486	120	1,486	4.1	17.7	17.2	97	17.2	4.7
2 to 4 Persons .....	4.4	11.3	3,317	244	1,274	9.8	30.2	29.4	162	10.4	2.6
5 or More Persons .....	0.7	16.1	4,713	358	861	1.4	41.9	40.8	227	7.4	5.5

See footnotes at end of table.

**Table 51. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per Midwest Region Households, 1993 (Continued)**

Characteristics	Electricity					Natural Gas					RSE Row Factors
	Households (million)	Consumption		Expenditures (dollars)	Electricity Water-Heating Intensity (kWh per household member)	Households (million)	Consumption		Expenditures (dollars)	Natural Gas Water-Heating Intensity (1000 cubic feet per household member)	
		(million Btu)	(kWh)				(million Btu)	(1000 cubic feet)			
RSE Column Factor:	3.1	1.1 <sup>1</sup>	1.1 <sup>1</sup>	1.2 <sup>1</sup>	1.0 <sup>1</sup>	1.8	0.6 <sup>1</sup>	0.6 <sup>1</sup>	0.6 <sup>1</sup>	0.6 <sup>1</sup>	

**Midwest Region**

**Average Electricity Expenditures (cents per kWh)**

Less than 6 .....	0.8	12.7	3,731	199	1,412	--	--	--	--	--	4.8
6 to Less than 9 .....	4.7	10.4	3,063	226	1,216	--	--	--	--	--	4.0
9 or More .....	1.3	7.6	2,242	232	989	--	--	--	--	--	5.1

**Average Natural Gas Expenditures (dollars per 1000 cf)**

Less than 4.50 .....	--	--	--	--	--	Q	Q	Q	Q	Q	NF
4.50 to Less than 6 .....	--	--	--	--	--	11.2	28.8	28.0	146	10.9	3.8
6 or More .....	--	--	--	--	--	4.1	25.6	24.9	162	9.5	6.8

**Water Heater Used**

For One Housing Unit .....	6.5	10.3	3,032	227	1,199	13.1	28.3	27.5	153	10.2	2.9
For Two or More Units .....	0.3	7.3	2,149	163	1,275	2.3	26.2	25.4	138	13.3	9.4

**Age of Water Heater (for one housing unit)**

Less than 5 Years .....	1.7	10.0	2,928	213	1,213	3.9	28.6	27.8	155	9.9	4.3
5 to 9 Years .....	1.5	10.5	3,075	240	1,136	3.3	29.5	28.7	161	9.9	5.2
10 to 19 Years .....	1.8	10.9	3,181	230	1,211	3.2	28.2	27.4	149	10.2	4.8
20 Years or More .....	0.8	8.7	2,545	201	1,162	1.2	24.0	23.4	130	11.0	8.4
Don't Know/No Separate Unit .....	0.7	11.6	3,388	253	1,318	1.5	28.3	27.6	153	11.2	9.0

**Size of Water Heater (for one housing unit)**

30 gallons or less .....	1.1	9.1	2,670	205	1,181	2.4	24.4	23.7	134	10.4	5.9
31 to 49 gallons .....	2.9	9.7	2,829	217	1,107	8.1	28.7	27.9	154	10.0	3.4
50 gallons or more .....	2.2	12.1	3,557	257	1,322	1.9	31.2	30.4	169	10.2	5.3
Don't Know/No Separate Unit .....	0.3	8.8	2,580	190	1,213	0.7	28.2	27.5	157	11.4	11.4

**Clothes Washer**

Yes .....	5.6	10.7	3,150	234	1,184	11.9	28.7	27.9	154	10.1	3.0
No .....	1.3	7.9	2,305	180	1,319	3.5	25.4	24.7	139	12.6	6.6

**Dishwasher**

Yes .....	2.5	11.3	3,299	238	1,211	6.6	29.5	28.7	157	10.1	4.7
No .....	4.4	9.6	2,809	215	1,196	8.8	26.8	26.1	146	10.8	4.3

**Children Present in Household**

No .....	4.5	8.2	2,396	182	1,379	9.7	23.6	23.0	128	13.0	3.6
Yes .....	2.3	14.1	4,136	305	1,050	5.7	35.4	34.4	190	8.6	2.9

**(more than one may apply)**

Under 13 Years .....	1.6	14.0	4,093	306	965	4.4	35.5	34.6	191	8.4	3.1
13 to 18 Years .....	1.1	15.1	4,430	324	1,173	2.6	37.3	36.3	200	8.6	3.8

See footnotes at end of table.

**Table 51. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per Midwest Region Households, 1993 (Continued)**

Characteristics	Electricity					Natural Gas					RSE Row Factors
	Households (million)	Consumption		Expenditures (dollars)	Electricity Water-Heating Intensity (kWh per household member)	Households (million)	Consumption		Expenditures (dollars)	Natural Gas Water-Heating Intensity (1000 cubic feet per household member)	
		(million Btu)	(kWh)				(million Btu)	(1000 cubic feet)			
RSE Column Factor:	3.1	1.1 <sup>1</sup>	1.1 <sup>1</sup>	1.2 <sup>1</sup>	1.0 <sup>1</sup>	1.8	0.6 <sup>1</sup>	0.6 <sup>1</sup>	0.6 <sup>1</sup>	0.6 <sup>1</sup>	
<b>East North Central Division</b> .....	4.2	10.1	2,957	225	1,188	11.7	28.4	27.6	153	10.6	3.8
<b>Climate Zone<sup>2</sup></b>											
Under 2,000 CDD and Over 5,500 HDD .....	3.5	10.5	3,089	228	1,191	10.5	28.3	27.5	153	10.6	4.3
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>											
Single-Family .....	2.9	10.6	3,100	230	1,178	8.1	29.0	28.3	156	10.0	4.0
Mobile Home .....	0.5	9.8	2,874	241	1,214	0.4	28.7	27.9	151	10.4	16.4
Multifamily (2 or more units) .....	0.7	8.2	2,415	189	1,219	3.3	26.6	25.9	146	12.6	8.3
<b>Heated Floorspace (square feet)</b>											
Fewer than 1,000 .....	1.2	8.3	2,447	201	1,218	2.8	22.9	22.3	125	13.0	7.5
1,000 to 1,999 .....	1.4	9.8	2,872	217	1,161	4.2	29.1	28.3	157	10.6	4.5
2,000 or More .....	1.6	11.7	3,416	249	1,192	4.7	30.9	30.0	166	9.9	5.3
<b>Ownership of Unit</b>											
Owned .....	3.2	10.3	3,033	229	1,185	7.7	29.4	28.6	159	10.2	4.2
Rented .....	1.0	9.3	2,715	211	1,197	4.0	26.4	25.7	142	11.6	6.4
<b>Year of Construction</b>											
1939 or Before .....	1.2	10.0	2,941	226	1,175	3.5	29.3	28.5	161	10.8	9.8
1940 to 1979 .....	2.3	10.0	2,943	226	1,264	6.4	27.6	26.8	146	10.5	4.5
1980 or After <sup>3</sup> .....	0.7	10.4	3,036	219	1,004	1.9	29.3	28.5	162	10.6	7.6
<b>1993 Family Income</b>											
Less than \$10,000 .....	0.5	8.2	2,407	189	1,123	1.4	24.6	24.0	131	11.9	11.1
\$10,000 to \$19,999 .....	1.2	8.7	2,554	200	1,195	2.5	24.3	23.6	132	11.5	6.7
\$20,000 to \$34,999 .....	1.0	9.5	2,776	222	1,232	2.9	28.0	27.3	155	10.5	7.1
\$35,000 to \$49,999 .....	0.8	11.6	3,407	254	1,218	2.1	31.0	30.1	167	10.1	5.9
\$50,000 or More .....	0.8	12.6	3,702	259	1,141	2.7	32.4	31.6	172	10.1	5.8
<b>Below Poverty Line</b>											
100 Percent .....	0.4	12.0	3,515	278	1,133	1.3	29.6	28.8	156	10.7	10.6
125 Percent .....	0.7	10.7	3,147	249	1,075	1.9	28.7	27.9	154	9.9	8.7
150 Percent .....	1.0	10.1	2,956	235	1,055	2.4	28.5	27.7	153	10.3	7.4
<b>Age of Householder</b>											
Under 35 Years .....	1.1	10.1	2,974	246	1,134	3.2	31.6	30.7	169	10.2	5.9
35 to 59 Years .....	1.8	12.4	3,648	262	1,223	5.1	30.9	30.1	168	10.4	4.2
60 Years and Over .....	1.3	6.8	2,005	157	1,172	3.4	21.5	20.9	116	11.8	6.9
<b>Household Size</b>											
1 Person .....	1.1	5.1	1,484	121	1,484	3.2	17.6	17.1	97	17.1	5.8
2 to 4 Persons .....	2.7	11.2	3,276	247	1,244	7.4	31.0	30.1	166	10.5	3.2
5 or More Persons .....	0.4	16.5	4,845	361	860	1.1	42.9	41.7	235	7.5	7.7

See footnotes at end of table.

**Table 51. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per Midwest Region Households, 1993 (Continued)**

Characteristics	Electricity					Natural Gas					RSE Row Factors
	Households (million)	Consumption		Expenditures (dollars)	Electricity Water-Heating Intensity (kWh per household member)	Households (million)	Consumption		Expenditures (dollars)	Natural Gas Water-Heating Intensity (1000 cubic feet per household member)	
		(million Btu)	(kWh)				(million Btu)	(1000 cubic feet)			
RSE Column Factor:	3.1	1.1 <sup>1</sup>	1.1 <sup>1</sup>	1.2 <sup>1</sup>	1.0 <sup>1</sup>	1.8	0.6 <sup>1</sup>	0.6 <sup>1</sup>	0.6 <sup>1</sup>	0.6 <sup>1</sup>	
<b>West North Central Division</b> .....	2.7	10.4	3,035	222	1,224	3.7	26.7	26.0	142	10.2	3.9
<b>Climate Zone<sup>2</sup></b>											
Under 2,000 CDD and Over 5,500 HDD .....	2.1	10.1	2,957	223	1,229	2.6	25.3	24.6	135	9.7	4.6
Under 5,500 HDD .....	Q	11.2	3,285	218	1,209	1.1	30.1	29.3	160	11.3	7.5
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>											
Single-Family .....	1.8	10.8	3,151	233	1,197	2.9	26.8	26.1	142	9.8	5.0
Mobile Home .....	0.2	10.0	2,922	222	971	Q	Q	Q	Q	Q	8.7
Multifamily (2 or more units) .....	0.6	9.4	2,743	191	1,474	0.6	26.0	25.3	143	12.4	17.1
<b>Heated Floorspace (square feet)</b>											
Fewer than 1,000 .....	0.8	8.9	2,622	191	1,328	0.9	25.4	24.7	137	12.0	9.9
1,000 to 1,999 .....	0.9	9.5	2,785	203	1,160	1.3	25.8	25.1	139	9.9	8.7
2,000 or More .....	1.0	12.4	3,643	267	1,214	1.5	28.2	27.5	148	9.7	5.8
<b>Ownership of Unit</b>											
Owned .....	1.8	10.7	3,139	230	1,177	2.7	26.1	25.4	139	9.9	5.7
Rented .....	0.9	9.7	2,834	207	1,338	1.0	28.3	27.5	151	11.1	11.6
<b>Year of Construction</b>											
1939 or Before .....	0.8	10.5	3,085	243	1,114	1.5	25.5	24.9	135	9.9	6.5
1940 to 1979 .....	1.1	10.3	3,005	223	1,188	1.6	27.1	26.3	146	10.0	6.1
1980 or After <sup>3</sup> .....	Q	10.3	3,029	199	1,421	0.6	28.7	27.9	152	11.7	8.5
<b>1993 Family Income</b>											
Less than \$10,000 .....	0.5	8.6	2,525	176	1,441	0.4	21.5	20.9	115	11.1	19.2
\$10,000 to \$19,999 .....	0.7	8.8	2,575	193	1,079	0.8	24.0	23.3	131	9.7	7.6
\$20,000 to \$34,999 .....	0.8	10.9	3,183	242	1,267	1.0	26.4	25.6	138	10.8	7.5
\$35,000 to \$49,999 .....	0.5	11.6	3,385	250	1,115	0.8	27.9	27.1	151	9.4	8.2
\$50,000 or More .....	0.3	13.3	3,909	258	1,439	0.7	31.9	31.0	168	10.5	7.8
<b>Below Poverty Line</b>											
100 Percent .....	0.4	10.2	2,987	210	1,284	0.3	23.5	22.9	125	9.8	21.0
125 Percent .....	0.6	10.0	2,925	213	1,137	0.6	24.0	23.3	129	10.0	15.1
150 Percent .....	0.9	10.0	2,919	215	1,144	0.8	26.0	25.3	139	10.0	12.3
<b>Age of Householder</b>											
Under 35 Years .....	0.9	10.9	3,209	225	1,134	1.2	28.3	27.5	149	10.0	6.3
35 to 59 Years .....	1.0	13.3	3,903	283	1,383	1.5	30.3	29.5	161	10.1	5.9
60 Years and Over .....	0.8	5.9	1,715	139	1,041	1.0	19.4	18.8	105	10.9	10.4

See footnotes at end of table.

**Table 51. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per Midwest Region Households, 1993 (Continued)**

Characteristics	Electricity					Natural Gas					RSE Row Factors
	Households (million)	Consumption		Expenditures (dollars)	Electricity Water-Heating Intensity (kWh per household member)	Households (million)	Consumption		Expenditures (dollars)	Natural Gas Water-Heating Intensity (1000 cubic feet per household member)	
		(million Btu)	(kWh)				(million Btu)	(1000 cubic feet)			
RSE Column Factor:	3.1	1.1 <sup>1</sup>	1.1 <sup>1</sup>	1.2 <sup>1</sup>	1.0 <sup>1</sup>	1.8	0.6 <sup>1</sup>	0.6 <sup>1</sup>	0.6 <sup>1</sup>	0.6 <sup>1</sup>	

**Household Size**

1 Person .....	0.7	5.1	1,490	120	1,490	0.9	18.1	17.6	96	17.6	7.9
2 to 4 Persons .....	1.7	11.5	3,383	239	1,322	2.4	28.1	27.3	150	10.2	4.5
5 or More Persons .....	0.3	15.5	4,552	354	863	0.3	38.8	37.7	202	6.8	5.3

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

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

<sup>3</sup> Does not include all new construction for 1993.

-- = Data not applicable.

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" in *Household Energy Consumption and Expenditures 1993* 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, E, and F of the 1993 Residential Energy Consumption Survey.

**Table 52. LPG Consumption and Expenditures for Main Water Heating, per Midwest Region Households, 1993**

Characteristics	Liquefied Petroleum Gas					RSE Row Factors
	Households (million)	Consumption		Expenditures (dollars)	LPG Water-Heating Intensity (gallons per household member)	
		(million Btu)	(gallons)			
	RSE Column Factor:	2.0	0.8 <sup>1</sup>	0.8 <sup>1</sup>	0.8 <sup>1</sup>	
<b>Total Region</b> .....	1.0	22.1	242	199	86	10.5
East North Central Division .....	0.4	25.6	281	237	94	18.6
West North Central Division .....	0.6	19.3	211	170	79	7.9
<b>Climate Zone<sup>2</sup></b>						
Under 2,000 CDD and Over 5,500 HDD .....	0.7	23.0	252	206	86	13.2
Under 5,500 HDD .....	Q	19.3	212	179	86	51.1
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>						
Single-Family .....	0.8	22.2	243	199	85	13.6
Mobile Home .....	0.2	22.7	249	203	89	17.0
Multifamily (2 or more units) .....	Q	Q	Q	Q	Q	NF
<b>Heated Floorspace (square feet)</b>						
Fewer than 1,000 .....	0.2	22.1	242	204	90	13.0
1,000 to 1,999 .....	0.4	22.8	249	201	114	26.8
2,000 or More .....	0.4	21.5	235	195	69	10.6
<b>Ownership of Unit</b>						
Owned .....	0.8	22.3	244	199	90	12.6
Rented .....	0.2	20.9	229	200	68	16.6
<b>Year of Construction</b>						
1939 or Before .....	0.4	22.9	250	216	93	24.7
1940 to 1979 .....	0.4	20.3	222	176	87	9.2
1980 or After <sup>3</sup> .....	0.3	23.3	255	206	77	16.7
<b>1993 Family Income</b>						
Less than \$10,000 .....	0.2	21.1	231	195	143	12.2
\$10,000 to \$19,999 .....	0.2	21.1	232	186	75	9.8
\$20,000 to \$34,999 .....	0.4	17.6	193	159	72	10.4
\$35,000 to \$49,999 .....	0.2	31.5	345	288	114	35.5
\$50,000 or More .....	0.1	24.7	270	219	67	20.2
<b>Below Poverty Line</b>						
100 Percent .....	0.1	22.9	250	209	93	13.0
125 Percent .....	0.3	22.0	241	194	85	11.3
150 Percent .....	0.3	22.6	247	202	86	10.3
<b>Age of Householder</b>						
Under 35 Years .....	0.2	20.5	224	178	68	10.1
35 to 59 Years .....	0.5	26.3	288	240	100	17.0
60 Years and Over .....	0.3	16.5	181	149	80	25.3
<b>Household Size</b>						
1 Person .....	0.2	15.8	173	141	173	12.4
2 to 4 Persons .....	0.7	22.4	245	203	89	15.5
5 or More Persons .....	0.1	29.0	318	259	59	18.1

See footnotes at end of table.

**Table 52. LPG Consumption and Expenditures for Main Water Heating, per Midwest Region Households, 1993 (Continued)**

Characteristics	Liquefied Petroleum Gas					RSE Row Factors
	Households (million)	Consumption		Expenditures (dollars)	LPG Water-Heating Intensity (gallons per household member)	
		(million Btu)	(gallons)			
RSE Column Factor:	2.0	0.8 <sup>1</sup>	0.8 <sup>1</sup>	0.8 <sup>1</sup>	1.0 <sup>1</sup>	

**Average Fuel Oil Expenditures (dollars per gallon)**

Less than 0.95 .....	1.0	22.1	242	199	86	10.5
0.95 to Less than 1.10 .....	Q	Q	Q	Q	Q	NF
1.10 or More .....	Q	Q	Q	Q	Q	NF

**Average LPG Expenditures (dollars per gallon)**

Less than 0.75 .....	0.2	15.9	174	115	66	13.9
0.75 to Less than 1.00 .....	0.7	24.9	273	227	93	13.8
1.00 or More .....	Q	Q	Q	Q	Q	NF

**Water Heater Used**

For One Housing Unit .....	1.0	22.3	244	200	86	10.6
For Two or More Units .....	Q	Q	Q	Q	Q	NF

**Age of Water Heater (for one housing unit)**

Less than 5 Years .....	0.4	20.4	223	177	76	11.0
5 to 9 Years .....	0.3	19.5	214	188	71	12.6
10 to 19 Years .....	0.1	33.2	364	301	141	45.7
20 Years or More .....	0.1	24.5	268	207	102	14.7
Don't Know/No Separate Unit .....	Q	Q	Q	Q	Q	NF

**Size of Water Heater (for one housing unit)**

30 gallons or less .....	0.2	24.2	265	229	86	14.9
31 to 49 gallons .....	0.5	19.2	211	168	78	11.8
50 gallons or more .....	0.2	19.8	217	173	76	16.2
Don't Know/No Separate Unit .....	Q	Q	Q	Q	Q	NF

**Clothes Washer Present in Household**

Yes .....	0.9	22.7	248	203	87	11.2
No .....	Q	Q	Q	Q	Q	NF

**Dishwasher Present in Household**

Yes .....	0.3	29.2	320	263	91	22.0
No .....	0.7	19.0	208	172	83	8.2

**Children Present in Household**

No .....	0.6	15.8	173	142	100	7.2
Yes .....	0.4	30.4	333	275	79	16.3
<b>(more than one may apply)</b>						
Under 13 Years .....	0.3	26.2	287	232	66	10.1
13 to 18 Years .....	0.2	39.0	427	359	99	20.1

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

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

<sup>3</sup> Does not include all new construction for 1993.

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" in *Household Energy Consumption and Expenditures 1993* 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 D of the 1993 Residential Energy Consumption Survey.

**Table 53. Total Consumption and Expenditures for Appliances in Midwest Region Households, 1993**

Characteristics	Electricity				Natural Gas				Liquefied Petroleum Gas				RSE Row Factors
	Households (million)	Consumed		Expenditures (billion dollars)	Households (million)	Consumed		Expenditures (billion dollars)	Households (million)	Consumed		Expenditures (billion dollars)	
		(trillion Btu)	(billion kWh)			(trillion Btu)	(billion cubic feet)			(trillion Btu)	(billion gallons)		
RSE Column Factor:	0.5	0.5 <sup>1</sup>	0.5 <sup>1</sup>	0.5 <sup>1</sup>	0.8	0.9 <sup>1</sup>	0.9 <sup>1</sup>	0.9 <sup>1</sup>	2.1	2.2 <sup>1</sup>	2.2 <sup>1</sup>	2.3 <sup>1</sup>	
<b>Midwest Region</b>													
<b>Total Region</b> .....	23.3	412.8	121.0	9.98	10.4	78.2	76	0.42	1.1	7.5	0.08	0.07	8.7
<b>Climate Zone<sup>2</sup></b>													
Under 2,000 CDD and Over 5,500 HDD .....	19.5	339.6	99.5	8.21	9.2	68.7	67	0.37	0.8	5.2	0.06	0.05	13.7
Under 5,500 HDD .....	3.8	73.2	21.5	1.78	1.2	9.5	9	0.05	Q	Q	Q	Q	56.9
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>													
Single-Family .....	16.6	340.8	99.9	8.12	7.3	54.9	53	0.29	0.7	5.3	0.06	0.05	10.8
Mobile Home .....	1.4	22.3	6.5	0.55	0.6	4.5	4	0.02	0.4	2.1	0.02	0.02	26.6
Multifamily (2 or more units) ..	5.3	49.7	14.6	1.31	2.5	18.8	18	0.10	Q	Q	Q	Q	14.5
<b>Heated Floorspace (square feet)</b>													
Fewer than 1,000 .....	5.9	58.7	17.2	1.48	2.5	17.1	17	0.09	0.4	2.3	0.03	0.02	14.1
1,000 to 1,999 .....	8.2	141.3	41.4	3.50	3.8	30.1	29	0.16	0.3	2.2	0.02	0.02	9.9
2,000 or More .....	9.2	212.8	62.4	5.01	4.0	31.0	30	0.17	0.4	2.9	0.03	0.03	11.1
<b>Ownership of Unit</b>													
Owned .....	16.2	326.9	95.8	7.82	7.3	55.4	54	0.30	0.9	6.0	0.07	0.06	9.4
Rented .....	7.1	85.9	25.2	2.16	3.1	22.8	22	0.12	0.2	1.5	0.02	0.01	14.2
<b>Year of Construction</b>													
1939 or Before .....	7.4	128.8	37.7	3.10	3.8	26.5	26	0.15	0.4	3.2	0.04	0.03	13.5
1940 to 1979 .....	11.7	207.6	60.9	5.15	5.1	40.1	39	0.21	0.4	2.6	0.03	0.03	11.4
1980 or After <sup>3</sup> .....	4.2	76.4	22.4	1.73	1.4	11.6	11	0.06	0.2	1.6	0.02	0.02	19.2
<b>1993 Family Income</b>													
Less than \$10,000 .....	3.0	34.1	10.0	0.84	1.4	9.2	9	0.05	Q	Q	Q	Q	18.9
\$10,000 to \$19,999 .....	5.3	77.7	22.8	1.95	2.5	17.5	17	0.09	0.4	2.1	0.02	0.02	11.3
\$20,000 to \$34,999 .....	6.0	109.2	32.0	2.61	2.6	18.7	18	0.10	0.4	2.8	0.03	0.02	13.5
\$35,000 to \$49,999 .....	4.4	86.7	25.4	2.10	1.6	14.3	14	0.08	0.1	1.4	0.01	0.01	14.2
\$50,000 or More .....	4.6	105.1	30.8	2.48	2.2	18.5	18	0.10	0.1	0.4	(*)	(*)	15.2
<b>Below Poverty Line</b>													
100 Percent .....	2.6	36.6	10.7	0.91	1.4	11.2	11	0.06	0.2	1.2	0.01	Q	19.5
125 Percent .....	4.0	58.5	17.1	1.43	2.0	14.7	14	0.08	0.3	2.3	0.03	0.02	16.3
150 Percent .....	5.3	78.1	22.9	1.91	2.6	19.4	19	0.11	0.4	2.8	0.03	0.03	13.9
<b>Age of Householder</b>													
Under 35 Years .....	6.6	101.6	29.8	2.53	3.3	27.3	27	0.14	0.4	2.6	0.03	0.02	12.8
35 to 59 Years .....	9.9	210.6	61.7	4.96	4.3	35.5	35	0.19	0.4	3.1	0.03	0.03	11.4
60 Years and Over .....	6.8	100.6	29.5	2.50	2.8	15.5	15	0.09	0.3	Q	Q	Q	12.1
<b>Household Size</b>													
1 Person .....	6.1	57.3	16.8	1.49	2.6	11.7	11	0.07	0.1	0.6	0.01	0.01	14.9
2 to 4 Persons .....	14.9	296.8	87.0	7.09	6.6	54.2	53	0.29	0.7	5.0	0.05	0.05	9.4
5 or More Persons .....	2.3	58.7	17.2	1.40	1.1	12.3	12	0.07	0.2	1.9	0.02	0.02	15.6

See footnotes at end of table.

**Table 53. Total Consumption and Expenditures for Appliances in Midwest Region Households, 1993 (Continued)**

Characteristics	Electricity				Natural Gas				Liquefied Petroleum Gas				RSE Row Factors
	Households (million)	Consumed		Expenditures (billion dollars)	Households (million)	Consumed		Expenditures (billion dollars)	Households (million)	Consumed		Expenditures (billion dollars)	
		(trillion Btu)	(billion kWh)			(trillion Btu)	(billion cubic feet)			(trillion Btu)	(billion gallons)		
RSE Column Factor:	0.5	0.5 <sup>1</sup>	0.5 <sup>1</sup>	0.5 <sup>1</sup>	0.8	0.9 <sup>1</sup>	0.9 <sup>1</sup>	0.9 <sup>1</sup>	2.1	2.2 <sup>1</sup>	2.2 <sup>1</sup>	2.3 <sup>1</sup>	
<b>East North Central Division ..</b>	16.4	287.1	84.1	7.18	7.9	60.9	59	0.33	0.5	3.1	0.03	0.03	10.7
<b>Climate Zone<sup>2</sup></b>													
Under 2,000 CDD and Over 5,500 HDD .....	14.4	251.0	73.6	6.21	7.4	57.2	56	0.31	0.4	2.7	0.03	0.03	17.2
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>													
Single-Family .....	11.4	235.5	69.0	5.78	5.4	41.2	40	0.22	0.3	2.0	0.02	0.02	12.1
Mobile Home .....	0.9	15.1	4.4	0.38	0.5	3.3	3	0.02	0.2	Q	Q	Q	42.0
Multifamily (2 or more units) ..	4.0	36.5	10.7	1.02	2.0	16.4	16	0.09	Q	Q	Q	Q	15.6
<b>Heated Floorspace (square feet)</b>													
Fewer than 1,000 .....	4.0	37.0	10.9	0.99	1.8	12.5	12	0.07	Q	Q	Q	Q	14.2
1,000 to 1,999 .....	5.8	99.7	29.2	2.57	3.0	24.6	24	0.13	0.1	0.9	0.01	0.01	13.1
2,000 or More .....	6.6	150.3	44.1	3.63	3.1	23.8	23	0.13	0.2	1.2	0.01	0.01	11.3
<b>Ownership of Unit</b>													
Owned .....	11.2	227.6	66.7	5.61	5.5	42.9	42	0.23	0.4	2.3	0.03	0.02	10.4
Rented .....	5.1	59.5	17.4	1.57	2.4	18.0	17	0.10	Q	Q	Q	Q	13.4
<b>Year of Construction</b>													
1939 or Before .....	4.9	85.3	25.0	2.11	2.6	19.4	19	0.11	0.2	1.0	0.01	0.01	14.4
1940 to 1979 .....	8.8	153.2	44.9	3.92	4.2	32.7	32	0.17	0.2	1.2	0.01	Q	14.7
1980 or After <sup>3</sup> .....	2.7	48.6	14.3	1.15	1.1	8.8	9	0.05	Q	Q	Q	Q	21.7
<b>1993 Family Income</b>													
Less than \$10,000 .....	2.0	22.7	6.6	0.59	1.1	7.3	7	0.04	Q	Q	Q	Q	22.5
\$10,000 to \$19,999 .....	3.8	51.7	15.2	1.36	1.9	13.6	13	0.07	0.2	0.9	0.01	0.01	15.5
\$20,000 to \$34,999 .....	4.0	73.2	21.5	1.81	1.9	14.0	14	0.08	Q	1.1	0.01	Q	17.6
\$35,000 to \$49,999 .....	3.0	57.9	17.0	1.45	1.2	11.0	11	0.06	Q	Q	Q	Q	15.4
\$50,000 or More .....	3.5	81.6	23.9	1.98	1.8	15.0	15	0.08	Q	Q	Q	Q	16.0
<b>Below Poverty Line</b>													
100 Percent .....	1.8	25.4	7.4	0.66	1.2	9.3	9	0.05	Q	Q	Q	Q	22.3
125 Percent .....	2.7	38.7	11.4	0.98	1.5	11.6	11	0.06	Q	Q	Q	Q	21.1
150 Percent .....	3.5	49.1	14.4	1.26	1.9	15.0	15	0.08	Q	Q	Q	Q	15.7
<b>Age of Householder</b>													
Under 35 Years .....	4.3	65.3	19.1	1.73	2.5	20.1	20	0.11	Q	Q	Q	Q	13.7
35 to 59 Years .....	7.2	150.5	44.1	3.64	3.3	28.5	28	0.15	0.2	1.4	0.02	0.01	14.2
60 Years and Over .....	4.9	71.4	20.9	1.82	2.1	12.3	12	0.07	Q	Q	Q	Q	12.3
<b>Household Size</b>													
1 Person .....	4.4	40.7	11.9	1.09	2.0	8.9	9	0.05	Q	Q	Q	Q	18.3
2 to 4 Persons .....	10.4	207.3	60.7	5.14	5.1	42.5	41	0.23	0.3	1.8	0.02	0.02	13.0
5 or More Persons .....	1.6	39.1	11.4	0.96	0.9	9.5	9	0.05	0.1	0.9	0.01	0.01	17.2

See footnotes at end of table.

**Table 53. Total Consumption and Expenditures for Appliances in Midwest Region Households, 1993 (Continued)**

Characteristics	Electricity				Natural Gas				Liquefied Petroleum Gas				RSE Row Factors
	Households (million)	Consumed		Expenditures (billion dollars)	Households (million)	Consumed		Expenditures (billion dollars)	Households (million)	Consumed		Expenditures (billion dollars)	
		(trillion Btu)	(billion kWh)			(trillion Btu)	(billion cubic feet)			(trillion Btu)	(billion gallons)		
RSE Column Factor:	0.5	0.5 <sup>1</sup>	0.5 <sup>1</sup>	0.5 <sup>1</sup>	0.8	0.9 <sup>1</sup>	0.9 <sup>1</sup>	0.9 <sup>1</sup>	2.1	2.2 <sup>1</sup>	2.2 <sup>1</sup>	2.3 <sup>1</sup>	
<b>West North Central Division</b>	6.9	125.7	36.9	2.80	2.4	17.3	17	0.09	0.6	4.4	0.05	0.04	13.4
<b>Climate Zone<sup>2</sup></b>													
Under 2,000 CDD and Over 5,500 HDD .....	5.0	88.7	26.0	2.00	1.8	11.5	11	0.06	0.3	2.6	0.03	0.02	23.8
Under 5,500 HDD .....	1.9	37.1	10.9	0.80	0.6	5.9	6	0.03	Q	Q	Q	Q	49.1
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>													
Single-Family .....	5.2	105.3	30.9	2.34	1.8	13.7	13	0.07	0.4	3.3	0.04	0.03	17.2
Mobile Home .....	0.5	7.2	2.1	0.17	Q	Q	Q	Q	0.2	1.1	0.01	0.01	26.0
Multifamily (2 or more units) ..	1.3	13.2	3.9	0.29	0.4	2.5	2	0.01	Q	Q	Q	Q	31.6
<b>Heated Floorspace (square feet)</b>													
Fewer than 1,000 .....	1.8	21.7	6.3	0.49	0.7	4.6	4	0.02	0.2	1.4	0.02	Q	24.7
1,000 to 1,999 .....	2.5	41.6	12.2	0.93	0.9	5.5	5	0.03	0.2	1.3	0.01	0.01	14.3
2,000 or More .....	2.7	62.5	18.3	1.38	0.9	7.2	7	0.04	0.2	Q	Q	Q	25.2
<b>Ownership of Unit</b>													
Owned .....	5.0	99.3	29.1	2.21	1.8	12.5	12	0.07	0.5	3.7	0.04	0.03	19.1
Rented .....	2.0	26.4	7.7	0.59	0.7	4.9	5	0.03	Q	Q	Q	Q	29.8
<b>Year of Construction</b>													
1939 or Before .....	2.5	43.5	12.7	0.99	1.1	7.1	7	0.04	0.2	2.2	0.02	0.02	26.8
1940 to 1979 .....	3.0	54.5	16.0	1.23	1.0	7.4	7	0.04	0.2	1.4	0.02	0.01	14.7
1980 or After <sup>3</sup> .....	1.5	27.8	8.1	0.58	0.3	2.8	3	0.01	Q	Q	Q	Q	37.8
<b>1993 Family Income</b>													
Less than \$10,000 .....	0.9	11.5	3.4	0.25	0.3	1.9	2	0.01	Q	Q	Q	Q	32.6
\$10,000 to \$19,999 .....	1.6	26.0	7.6	0.59	0.6	3.9	4	0.02	0.2	1.2	0.01	0.01	15.9
\$20,000 to \$34,999 .....	2.0	35.9	10.5	0.81	0.7	4.7	5	0.02	0.2	1.7	0.02	0.01	21.4
\$35,000 to \$49,999 .....	1.4	28.8	8.4	0.65	0.4	3.3	3	0.02	Q	Q	Q	Q	20.4
\$50,000 or More .....	1.0	23.5	6.9	0.51	0.4	3.5	3	0.02	Q	Q	Q	Q	32.4
<b>Below Poverty Line</b>													
100 Percent .....	0.8	11.2	3.3	0.25	0.3	1.9	2	0.01	Q	Q	Q	Q	33.4
125 Percent .....	1.4	19.7	5.8	0.45	0.5	3.1	3	0.02	0.2	1.2	0.01	0.01	22.5
150 Percent .....	1.8	29.1	8.5	0.65	0.6	4.4	4	0.02	0.2	1.7	0.02	Q	21.7
<b>Age of Householder</b>													
Under 35 Years .....	2.3	36.3	10.6	0.80	0.9	7.1	7	0.04	0.2	1.6	0.02	0.01	18.7
35 to 59 Years .....	2.7	60.1	17.6	1.32	0.9	7.0	7	0.04	0.2	1.7	0.02	0.02	18.8
60 Years and Over .....	2.0	29.3	8.6	0.68	0.6	3.2	3	0.02	Q	Q	Q	Q	24.7
<b>Household Size</b>													
1 Person .....	1.7	16.6	4.9	0.40	0.6	2.8	3	0.02	Q	Q	Q	Q	23.0
2 to 4 Persons .....	4.5	89.5	26.2	1.95	1.6	11.7	11	0.06	0.4	3.2	0.03	0.03	12.6
5 or More Persons .....	0.7	19.7	5.8	0.45	0.2	2.8	3	0.01	Q	Q	Q	Q	29.6

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

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

<sup>3</sup> Does not include all new construction for 1993.

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

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.

• Appliances do not include refrigerators. • See "Glossary" in *Household Energy Consumption and Expenditures 1993* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-F of the 1993 Residential Energy Consumption Survey.

**Table 54. Electricity Consumption and Expenditures for Appliances and Refrigerators, per Midwest Region Households, 1993**

Characteristics	Electricity Used for Appliances				Electricity Used for Refrigerators					RSE Row Factors
	Households (million)	Consumed		Expenditures (dollars)	Households (million)	Average Number of Refrigerators	Consumed		Expenditures (dollars)	
		(million Btu)	(kWh)				(million Btu)	(kWh)		
RSE Column Factor:	1.7	0.9 <sup>1</sup>	0.9 <sup>1</sup>	1.1 <sup>1</sup>	1.7	0.5	0.9 <sup>1</sup>	0.9 <sup>1</sup>	1.1 <sup>1</sup>	

**Midwest Region**

<b>Total Region</b> .....	23.3	17.7	5,193	428	23.3	1.2	4.5	1,322	111	2.9
<b>Climate Zone<sup>2</sup></b>										
Under 2,000 CDD and										
Over 5,500 HDD .....	19.5	17.5	5,117	422	19.5	1.2	4.4	1,289	109	3.8
Under 5,500 HDD .....	3.8	19.0	5,573	461	3.8	1.2	5.1	1,489	125	6.1
2,000 CDD or More and										
Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>										
Single-Family .....	16.6	20.6	6,028	490	16.6	1.3	5.0	1,461	120	2.4
Mobile Home .....	1.4	15.7	4,614	392	1.4	1.0	3.5	1,021	87	7.1
Multifamily (2 or more units) .....	5.3	9.4	2,742	247	5.3	1.0	3.3	970	90	4.5
<b>Heated Floorspace (square feet)</b>										
Fewer than 1,000 .....	5.9	10.0	2,926	251	5.9	1.0	3.5	1,028	91	5.1
1,000 to 1,999 .....	8.2	17.2	5,048	426	8.2	1.2	4.4	1,287	111	2.9
2,000 or More .....	9.2	23.1	6,767	543	9.2	1.3	5.3	1,541	125	3.1
<b>Ownership of Unit</b>										
Owned .....	16.2	20.2	5,917	483	16.2	1.3	4.9	1,436	119	2.6
Rented .....	7.1	12.1	3,542	304	7.1	1.0	3.6	1,063	95	4.4
<b>Year of Construction</b>										
1939 or Before .....	7.4	17.4	5,094	419	7.4	1.2	4.4	1,299	109	3.9
1940 to 1979 .....	11.7	17.7	5,186	439	11.7	1.2	4.6	1,357	117	3.6
1980 or After <sup>3</sup> .....	4.2	18.4	5,386	416	4.2	1.2	4.3	1,265	99	5.6
<b>1993 Family Income</b>										
Less than \$10,000 .....	3.0	11.5	3,383	285	3.0	1.1	3.8	1,112	96	5.6
\$10,000 to \$19,999 .....	5.3	14.5	4,260	364	5.3	1.2	4.3	1,260	111	3.8
\$20,000 to \$34,999 .....	6.0	18.1	5,314	434	6.0	1.2	4.5	1,313	109	3.4
\$35,000 to \$49,999 .....	4.4	19.6	5,747	475	4.4	1.2	4.5	1,312	109	4.2
\$50,000 or More .....	4.6	23.1	6,763	545	4.6	1.3	5.3	1,553	127	4.1
<b>Below Poverty Line</b>										
100 Percent .....	2.6	14.1	4,127	349	2.6	1.1	3.9	1,157	99	5.6
125 Percent .....	4.0	14.6	4,275	357	4.0	1.1	4.0	1,185	101	5.1
150 Percent .....	5.3	14.6	4,290	359	5.3	1.1	4.1	1,198	104	4.5
<b>Age of Householder</b>										
Under 35 Years .....	6.6	15.5	4,543	386	6.6	1.1	3.9	1,132	98	4.0
35 to 59 Years .....	9.9	21.2	6,217	499	9.9	1.2	4.8	1,401	115	3.1
60 Years and Over .....	6.8	14.8	4,324	366	6.8	1.3	4.7	1,390	119	3.6
<b>Household Size</b>										
1 Person .....	6.1	9.4	2,743	243	6.1	1.1	3.7	1,087	98	4.9
2 to 4 Persons .....	14.9	19.9	5,842	476	14.9	1.2	4.8	1,417	117	2.5
5 or More Persons .....	2.3	25.7	7,523	612	2.3	1.2	4.6	1,338	110	4.1

See footnotes at end of table.

**Table 54. Electricity Consumption and Expenditures for Appliances and Refrigerators, per Midwest Region Households, 1993 (Continued)**

Characteristics	Electricity Used for Appliances				Electricity Used for Refrigerators					RSE Row Factors
	Households (million)	Consumed		Expenditures (dollars)	Households (million)	Average Number of Refrigerators	Consumed		Expenditures (dollars)	
		(million Btu)	(kWh)				(million Btu)	(kWh)		
RSE Column Factor:	1.7	0.9 <sup>1</sup>	0.9 <sup>1</sup>	1.1 <sup>1</sup>	1.7	0.5	0.9 <sup>1</sup>	0.9 <sup>1</sup>	1.1 <sup>1</sup>	

**Midwest Region**

**Average Electricity Expenditures (cents per kWh)**

Less than 6 .....	1.5	25.3	7,407	402	--	--	--	--	--	12.6
6 to Less than 9 .....	13.2	19.3	5,647	426	--	--	--	--	--	3.9
9 or More .....	8.5	14.0	4,090	436	--	--	--	--	--	5.1

**Average Electric Refrigerator Expenditures (cents per kWh)**

Less than 6 .....	--	--	--	--	1.5	1.3	6.1	1,802	99	12.5
6 to Less than 9 .....	--	--	--	--	13.1	1.2	4.7	1,382	105	3.9
9 or More .....	--	--	--	--	8.6	1.1	3.9	1,147	124	5.1

**Electric Appliances Used by Household (more than one may apply)**

Separate Freezer .....	10.2	22.6	6,638	532	10.2	1.3	4.9	1,422	114	3.0
Dishwasher .....	9.4	21.2	6,210	503	9.4	1.3	4.9	1,431	116	3.4
Clothes Washer .....	18.4	20.1	5,904	482	18.4	1.2	4.8	1,396	115	2.2
Clothes Dryer .....	13.2	20.9	6,135	490	13.2	1.2	4.7	1,381	112	2.6
Waterbed Heater .....	4.1	24.7	7,238	570	4.1	1.3	4.7	1,387	110	4.7
Swimming-Pool Pump .....	0.5	31.9	9,341	690	0.5	1.5	6.0	1,759	128	11.2
Hot-Tub or Spa Pump .....	0.4	34.9	10,241	784	0.4	1.5	6.3	1,852	143	12.2
Hot-Tub or Spa Heater .....	0.4	37.5	10,990	827	0.4	1.6	6.7	1,977	150	13.6
Well Pump .....	4.0	25.3	7,413	574	4.0	1.4	5.7	1,681	131	5.1

**Appliance Combination Usage**

Dishwasher, Clothes Washer, and Clothes Dryer										
All .....	6.0	23.5	6,884	542	6.0	1.3	5.0	1,468	116	3.4
Some .....	13.6	17.8	5,217	437	13.6	1.2	4.6	1,336	114	2.7
None .....	3.7	8.1	2,374	213	3.7	1.1	3.5	1,038	96	6.5

**Well Pump and Separate Freezer**

All .....	2.9	27.4	8,045	613	2.9	1.4	5.9	1,719	130	6.5
Some .....	8.4	20.6	6,045	496	8.4	1.2	4.6	1,342	111	3.0
None .....	12.0	13.3	3,907	336	12.0	1.1	4.1	1,213	107	3.5

**Main Heating Fuel**

Natural Gas .....	16.9	16.8	4,933	421	16.9	1.2	4.5	1,313	114	3.5
Electricity .....	2.9	18.0	5,269	362	2.9	1.1	4.4	1,280	90	7.4
Fuel Oil or Kerosene .....	1.3	20.7	6,072	490	1.3	1.3	4.7	1,373	110	7.6
Wood .....	0.4	25.5	7,467	573	0.4	1.5	5.6	1,648	126	12.9
LPG .....	1.8	22.1	6,463	535	1.8	1.3	4.7	1,379	115	7.3
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

**Number of Refrigerators**

1 .....	18.8	16.5	4,826	404	18.8	1.0	3.8	1,125	97	2.2
2 or More .....	4.5	22.9	6,707	528	4.5	2.0	7.3	2,137	170	3.8

See footnotes at end of table.

**Table 54. Electricity Consumption and Expenditures for Appliances and Refrigerators, per Midwest Region Households, 1993 (Continued)**

Characteristics	Electricity Used for Appliances				Electricity Used for Refrigerators					RSE Row Factors
	Households (million)	Consumed		Expenditures (dollars)	Households (million)	Average Number of Refrigerators	Consumed		Expenditures (dollars)	
		(million Btu)	(kWh)				(million Btu)	(kWh)		
RSE Column Factor:	1.7	0.9 <sup>1</sup>	0.9 <sup>1</sup>	1.1 <sup>1</sup>	1.7	0.5	0.9 <sup>1</sup>	0.9 <sup>1</sup>	1.1 <sup>1</sup>	
<b>East North Central Division</b> .....	16.4	17.6	5,146	439	16.4	1.2	4.5	1,317	115	4.2
<b>Climate Zone<sup>2</sup></b>										
Under 2,000 CDD and										
Over 5,500 HDD .....	14.4	17.4	5,097	430	14.4	1.2	4.5	1,307	113	4.8
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and										
Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>										
Single-Family .....	11.4	20.7	6,056	507	11.4	1.3	5.0	1,461	124	3.4
Mobile Home .....	0.9	15.9	4,668	407	0.9	1.0	3.6	1,050	90	10.5
Multifamily (2 or more units) .....	4.0	9.1	2,669	255	4.0	1.0	3.3	969	94	4.8
<b>Heated Floorspace (square feet)</b>										
Fewer than 1,000 .....	4.0	9.2	2,687	245	4.0	1.0	3.5	1,032	96	6.9
1,000 to 1,999 .....	5.8	17.3	5,077	446	5.8	1.1	4.4	1,284	115	3.8
2,000 or More .....	6.6	22.9	6,719	554	6.6	1.3	5.2	1,520	127	3.9
<b>Ownership of Unit</b>										
Owned .....	11.2	20.2	5,933	499	11.2	1.3	4.9	1,430	122	3.4
Rented .....	5.1	11.6	3,411	308	5.1	1.0	3.6	1,066	100	5.3
<b>Year of Construction</b>										
1939 or Before .....	4.9	17.4	5,095	431	4.9	1.2	4.5	1,326	115	5.1
1940 to 1979 .....	8.8	17.4	5,112	447	8.8	1.2	4.6	1,340	119	4.8
1980 or After <sup>3</sup> .....	2.7	18.3	5,351	431	2.7	1.2	4.2	1,222	100	5.5
<b>1993 Family Income</b>										
Less than \$10,000 .....	2.0	11.3	3,305	294	2.0	1.0	3.8	1,100	100	7.5
\$10,000 to \$19,999 .....	3.8	13.8	4,034	361	3.8	1.2	4.3	1,271	117	5.1
\$20,000 to \$34,999 .....	4.0	18.3	5,363	452	4.0	1.2	4.6	1,345	115	4.4
\$35,000 to \$49,999 .....	3.0	19.1	5,590	479	3.0	1.2	4.3	1,254	108	5.2
\$50,000 or More .....	3.5	23.0	6,739	557	3.5	1.3	5.1	1,509	127	5.1
<b>Below Poverty Line</b>										
100 Percent .....	1.8	14.3	4,197	372	1.8	1.1	4.0	1,161	104	7.1
125 Percent .....	2.7	14.6	4,284	371	2.7	1.1	4.1	1,204	106	7.0
150 Percent .....	3.5	14.0	4,112	360	3.5	1.1	4.1	1,205	109	6.0
<b>Age of Householder</b>										
Under 35 Years .....	4.3	15.2	4,449	402	4.3	1.1	3.9	1,154	106	5.3
35 to 59 Years .....	7.2	20.9	6,130	506	7.2	1.2	4.7	1,367	115	4.1
60 Years and Over .....	4.9	14.7	4,304	374	4.9	1.2	4.7	1,386	122	4.4
<b>Household Size</b>										
1 Person .....	4.4	9.2	2,703	247	4.4	1.1	3.7	1,086	101	6.8
2 to 4 Persons .....	10.4	20.0	5,856	495	10.4	1.2	4.8	1,421	122	3.5
5 or More Persons .....	1.6	25.0	7,340	613	1.6	1.2	4.3	1,273	108	4.7

See footnotes at end of table.

**Table 54. Electricity Consumption and Expenditures for Appliances and Refrigerators, per Midwest Region Households, 1993 (Continued)**

Characteristics	Electricity Used for Appliances				Electricity Used for Refrigerators					RSE Row Factors
	Households (million)	Consumed		Expenditures (dollars)	Households (million)	Average Number of Refrigerators	Consumed		Expenditures (dollars)	
		(million Btu)	(kWh)				(million Btu)	(kWh)		
RSE Column Factor:	1.7	0.9 <sup>1</sup>	0.9 <sup>1</sup>	1.1 <sup>1</sup>	1.7	0.5	0.9 <sup>1</sup>	0.9 <sup>1</sup>	1.1 <sup>1</sup>	
<b>West North Central Division</b> .....	6.9	18.1	5,303	403	6.9	1.2	4.6	1,336	103	2.6
<b>Climate Zone<sup>2</sup></b>										
Under 2,000 CDD and										
Over 5,500 HDD .....	5.0	17.7	5,175	398	5.0	1.2	4.2	1,239	96	4.8
Under 5,500 HDD .....	1.9	19.2	5,637	416	1.9	1.3	5.4	1,589	120	5.2
2,000 CDD or More and										
Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>										
Single-Family .....	5.2	20.4	5,965	452	5.2	1.3	5.0	1,461	111	2.9
Mobile Home .....	0.5	15.4	4,505	363	0.5	1.0	3.3	964	80	9.3
Multifamily (2 or more units) .....	1.3	10.1	2,964	222	1.3	1.0	3.3	974	76	8.3
<b>Heated Floorspace (square feet)</b>										
Fewer than 1,000 .....	1.8	11.8	3,450	265	1.8	1.0	3.5	1,018	81	6.6
1,000 to 1,999 .....	2.5	17.0	4,978	380	2.5	1.2	4.4	1,295	100	4.1
2,000 or More .....	2.7	23.5	6,885	518	2.7	1.4	5.4	1,594	120	4.9
<b>Ownership of Unit</b>										
Owned .....	5.0	20.1	5,880	447	5.0	1.3	4.9	1,450	111	2.8
Rented .....	2.0	13.2	3,875	294	2.0	1.1	3.6	1,054	82	7.9
<b>Year of Construction</b>										
1939 or Before .....	2.5	17.4	5,093	395	2.5	1.2	4.3	1,246	96	5.5
1940 to 1979 .....	3.0	18.4	5,407	416	3.0	1.2	4.8	1,409	110	2.6
1980 or After <sup>3</sup> .....	1.5	18.6	5,450	390	1.5	1.2	4.6	1,341	98	13.4
<b>1993 Family Income</b>										
Less than \$10,000 .....	0.9	12.1	3,548	265	0.9	1.1	3.9	1,138	89	8.2
\$10,000 to \$19,999 .....	1.6	16.4	4,792	369	1.6	1.2	4.2	1,236	97	4.4
\$20,000 to \$34,999 .....	2.0	17.8	5,218	399	2.0	1.2	4.3	1,252	96	5.1
\$35,000 to \$49,999 .....	1.4	20.8	6,091	466	1.4	1.3	4.9	1,439	112	7.0
\$50,000 or More .....	1.0	23.4	6,848	505	1.0	1.3	5.8	1,708	125	5.7
<b>Below Poverty Line</b>										
100 Percent .....	0.8	13.6	3,978	298	0.8	1.1	3.9	1,150	89	9.8
125 Percent .....	1.4	14.5	4,258	329	1.4	1.1	3.9	1,147	91	6.6
150 Percent .....	1.8	15.8	4,630	355	1.8	1.1	4.0	1,185	93	6.4
<b>Age of Householder</b>										
Under 35 Years .....	2.3	16.1	4,722	355	2.3	1.1	3.7	1,091	83	5.9
35 to 59 Years .....	2.7	22.0	6,448	481	2.7	1.3	5.1	1,493	112	4.7
60 Years and Over .....	2.0	14.9	4,374	347	2.0	1.3	4.8	1,398	112	6.0
<b>Household Size</b>										
1 Person .....	1.7	9.7	2,847	233	1.7	1.1	3.7	1,087	90	4.0
2 to 4 Persons .....	4.5	19.8	5,811	433	4.5	1.3	4.8	1,407	105	2.5
5 or More Persons .....	0.7	27.0	7,914	612	0.7	1.3	5.0	1,476	113	7.4

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

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

<sup>3</sup> Does not include all new construction for 1993.

-- = Data not applicable.

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" in *Household Energy Consumption and Expenditures 1993* 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.

**Table 55. Natural Gas and LPG Consumption and Expenditures for Appliances, per Midwest Region Households, 1993**

Characteristics	Natural Gas				Liquefied Petroleum Gas				RSE Row Factors
	Households (million)	Consumed		Expenditures (dollars)	Households (million)	Consumed		Expenditures (dollars)	
		(million Btu)	(1000 cubic feet)			(million Btu)	(gallons)		
	1.1	0.5 <sup>1</sup>	0.5 <sup>1</sup>	0.6 <sup>1</sup>	2.9	1.2 <sup>1</sup>	1.2 <sup>1</sup>	1.3 <sup>1</sup>	
RSE Column Factor:									
<b>Midwest Region</b>									
<b>Total Region</b> .....	10.4	7.5	7.3	41	1.1	7.0	76	66	6.3
<b>Climate Zone<sup>2</sup></b>									
Under 2,000 CDD and Over 5,500 HDD .....	9.2	7.5	7.3	41	0.8	6.9	76	65	7.7
Under 5,500 HDD .....	1.2	7.9	7.7	43	Q	7.0	77	69	23.7
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>									
Single-Family .....	7.3	7.5	7.3	40	0.7	7.5	83	70	7.8
Mobile Home .....	0.6	7.0	6.8	37	0.4	5.8	64	58	12.1
Multifamily (2 or more units) .....	2.5	7.7	7.5	43	Q	Q	Q	Q	8.5
<b>Heated Floorspace (square feet)</b>									
Fewer than 1,000 .....	2.5	6.7	6.5	37	0.4	6.3	69	63	10.1
1,000 to 1,999 .....	3.8	7.8	7.6	42	0.3	7.0	77	61	10.1
2,000 or More .....	4.0	7.8	7.6	42	0.4	7.5	82	73	9.9
<b>Ownership of Unit</b>									
Owned .....	7.3	7.6	7.4	41	0.9	7.0	77	67	7.2
Rented .....	3.1	7.3	7.1	40	0.2	6.6	73	63	10.1
<b>Year of Construction</b>									
1939 or Before .....	3.8	7.0	6.8	39	0.4	8.2	90	77	10.3
1940 to 1979 .....	5.1	7.8	7.6	41	0.4	6.0	65	57	8.2
1980 or After <sup>3</sup> .....	1.4	8.0	7.8	43	0.2	6.7	73	63	12.8
<b>1993 Family Income</b>									
Less than \$10,000 .....	1.4	6.5	6.3	37	Q	Q	Q	Q	11.4
\$10,000 to \$19,999 .....	2.5	6.9	6.7	37	0.4	5.8	63	54	9.6
\$20,000 to \$34,999 .....	2.6	7.1	6.9	38	0.4	7.3	80	65	11.2
\$35,000 to \$49,999 .....	1.6	8.9	8.7	48	0.1	9.1	100	84	13.2
\$50,000 or More .....	2.2	8.5	8.3	46	0.1	7.4	81	78	15.8
<b>Below Poverty Line</b>									
100 Percent .....	1.4	7.7	7.5	41	0.2	6.7	74	77	11.3
125 Percent .....	2.0	7.4	7.2	40	0.3	6.7	74	66	8.7
150 Percent .....	2.6	7.5	7.3	41	0.4	7.0	77	69	9.1
<b>Age of Householder</b>									
Under 35 Years .....	3.3	8.2	8.0	43	0.4	6.7	73	60	8.8
35 to 59 Years .....	4.3	8.3	8.1	45	0.4	7.7	84	75	9.3
60 Years and Over .....	2.8	5.6	5.4	31	0.3	6.3	69	62	12.2
<b>Household Size</b>									
1 Person .....	2.6	4.5	4.3	26	0.1	4.1	45	37	11.4
2 to 4 Persons .....	6.6	8.2	7.9	44	0.7	7.2	79	65	6.7
5 or More Persons .....	1.1	11.0	10.7	60	0.2	8.0	87	88	11.3

See footnotes at end of table.

**Table 55. Natural Gas and LPG Consumption and Expenditures for Appliances, per Midwest Region Households, 1993 (Continued)**

Characteristics	Natural Gas				Liquefied Petroleum Gas				RSE Row Factors
	Households (million)	Consumed		Expenditures (dollars)	Households (million)	Consumed		Expenditures (dollars)	
		(million Btu)	(1000 cubic feet)			(million Btu)	(gallons)		
RSE Column Factor:	1.1	0.5 <sup>1</sup>	0.5 <sup>1</sup>	0.6 <sup>1</sup>	2.9	1.2 <sup>1</sup>	1.2 <sup>1</sup>	1.3 <sup>1</sup>	
<b>East North Central Division</b> .....	7.9	7.7	7.5	42	0.5	6.2	68	61	8.3
<b>Climate Zone<sup>2</sup></b>									
Under 2,000 CDD and Over 5,500 HDD .....	7.4	7.7	7.5	42	0.4	6.4	70	63	8.9
Under 5,500 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	NF
2,000 CDD or More and Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>									
Single-Family .....	5.4	7.6	7.4	41	0.3	6.4	70	59	8.9
Mobile Home .....	0.5	6.9	6.7	37	0.2	5.7	63	64	23.6
Multifamily (2 or more units) .....	2.0	8.1	7.8	45	Q	Q	Q	Q	9.6
<b>Heated Floorspace (square feet)</b>									
Fewer than 1,000 .....	1.8	6.8	6.6	38	Q	Q	Q	Q	12.8
1,000 to 1,999 .....	3.0	8.3	8.0	45	0.1	7.6	83	67	10.8
2,000 or More .....	3.1	7.6	7.4	41	0.2	5.5	60	52	10.4
<b>Ownership of Unit</b>									
Owned .....	5.5	7.8	7.6	42	0.4	6.1	66	60	9.1
Rented .....	2.4	7.3	7.1	40	Q	Q	Q	Q	10.5
<b>Year of Construction</b>									
1939 or Before .....	2.6	7.3	7.1	42	0.2	6.2	68	60	12.5
1940 to 1979 .....	4.2	7.9	7.7	41	0.2	5.9	64	63	11.6
1980 or After <sup>3</sup> .....	1.1	7.7	7.5	42	Q	6.5	72	58	11.6
<b>1993 Family Income</b>									
Less than \$10,000 .....	1.1	6.7	6.5	39	Q	Q	Q	Q	12.5
\$10,000 to \$19,999 .....	1.9	7.0	6.8	38	0.2	5.0	55	47	12.8
\$20,000 to \$34,999 .....	1.9	7.3	7.1	40	Q	6.5	71	60	20.2
\$35,000 to \$49,999 .....	1.2	9.0	8.8	49	Q	Q	Q	Q	8.2
\$50,000 or More .....	1.8	8.5	8.2	45	Q	Q	Q	Q	11.2
<b>Below Poverty Line</b>									
100 Percent .....	1.2	8.1	7.8	43	Q	Q	Q	Q	9.3
125 Percent .....	1.5	7.6	7.4	41	Q	6.6	72	71	10.3
150 Percent .....	1.9	7.7	7.5	43	Q	6.6	72	71	11.1
<b>Age of Householder</b>									
Under 35 Years .....	2.5	8.2	7.9	43	Q	6.2	68	57	12.8
35 to 59 Years .....	3.3	8.5	8.3	46	0.2	7.9	86	83	8.8
60 Years and Over .....	2.1	5.8	5.6	33	Q	Q	Q	Q	8.4
<b>Household Size</b>									
1 Person .....	2.0	4.5	4.3	26	Q	Q	Q	Q	12.7
2 to 4 Persons .....	5.1	8.4	8.2	45	0.3	6.0	66	55	10.5
5 or More Persons .....	0.9	10.7	10.5	59	0.1	7.0	77	80	13.9

See footnotes at end of table.

**Table 55. Natural Gas and LPG Consumption and Expenditures for Appliances, per Midwest Region Households, 1993 (Continued)**

Characteristics	Natural Gas				Liquefied Petroleum Gas				RSE Row Factors
	Households (million)	Consumed		Expenditures (dollars)	Households (million)	Consumed		Expenditures (dollars)	
		(million Btu)	(1000 cubic feet)			(million Btu)	(gallons)		
RSE Column Factor:	1.1	0.5 <sup>1</sup>	0.5 <sup>1</sup>	0.6 <sup>1</sup>	2.9	1.2 <sup>1</sup>	1.2 <sup>1</sup>	1.3 <sup>1</sup>	
<b>West North Central Division</b> .....	2.4	7.1	6.9	38	0.6	7.6	84	71	9.8
<b>Climate Zone<sup>2</sup></b>									
Under 2,000 CDD and									
Over 5,500 HDD .....	1.8	6.4	6.2	35	0.3	7.6	84	67	13.2
Under 5,500 HDD .....	0.6	9.1	8.8	48	Q	Q	Q	Q	11.9
2,000 CDD or More and									
Under 4,000 HDD .....	Q	Q	Q	Q	Q	Q	Q	Q	NF
<b>Type of Housing Unit</b>									
Single-Family .....	1.8	7.4	7.2	40	0.4	8.4	92	79	14.1
Mobile Home .....	Q	Q	Q	Q	0.2	5.9	65	53	9.2
Multifamily (2 or more units) .....	0.4	5.8	5.6	32	Q	Q	Q	Q	20.6
<b>Heated Floorspace (square feet)</b>									
Fewer than 1,000 .....	0.7	6.5	6.4	35	0.2	6.6	72	61	14.6
1,000 to 1,999 .....	0.9	6.3	6.2	34	0.2	6.7	73	57	19.0
2,000 or More .....	0.9	8.4	8.1	45	0.2	9.9	109	99	18.4
<b>Ownership of Unit</b>									
Owned .....	1.8	7.0	6.8	38	0.5	7.8	86	72	14.0
Rented .....	0.7	7.3	7.1	39	Q	Q	Q	Q	21.0
<b>Year of Construction</b>									
1939 or Before .....	1.1	6.2	6.1	34	0.2	9.7	106	90	15.6
1940 to 1979 .....	1.0	7.4	7.2	40	0.2	6.0	66	53	12.1
1980 or After <sup>3</sup> .....	0.3	9.5	9.2	49	Q	6.9	75	Q	34.3
<b>1993 Family Income</b>									
Less than \$10,000 .....	0.3	5.7	5.5	31	Q	Q	Q	Q	27.7
\$10,000 to \$19,999 .....	0.6	6.4	6.2	35	0.2	6.5	71	61	16.4
\$20,000 to \$34,999 .....	0.7	6.7	6.5	34	0.2	7.9	86	68	10.9
\$35,000 to \$49,999 .....	0.4	8.7	8.4	47	Q	Q	Q	Q	22.5
\$50,000 or More .....	0.4	8.7	8.5	48	Q	Q	Q	Q	33.0
<b>Below Poverty Line</b>									
100 Percent .....	0.3	6.3	6.1	34	Q	Q	Q	Q	35.4
125 Percent .....	0.5	6.6	6.4	36	0.2	6.9	76	62	16.4
150 Percent .....	0.6	6.9	6.7	37	0.2	7.3	80	68	15.3
<b>Age of Householder</b>									
Under 35 Years .....	0.9	8.3	8.0	43	0.2	7.0	76	62	13.0
35 to 59 Years .....	0.9	7.6	7.4	42	0.2	7.6	83	69	16.3
60 Years and Over .....	0.6	4.9	4.8	27	Q	9.0	99	91	15.3
<b>Household Size</b>									
1 Person .....	0.6	4.4	4.3	24	Q	Q	Q	Q	9.7
2 to 4 Persons .....	1.6	7.5	7.3	40	0.4	8.1	89	72	9.2
5 or More Persons .....	0.2	12.2	11.9	63	Q	9.2	100	97	19.7

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

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

<sup>3</sup> Does not include all new construction for 1993.

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" in *Household Energy Consumption and Expenditures 1993* 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, D, and F of the 1993 Residential Energy Consumption Survey.