

1997 Housing Characteristics Tables

Air Conditioning Tables

(Million U.S. Households; 24 pages, 78 kb)

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These data are from the 1997 Residential Energy Consumption Survey (RECS) which provides information on the use of energy in residential housing units in the United States. The RECS is a national statistical survey that collects data for occupied primary housing units. RECS was first conducted in 1978; the sixth and most recent survey was conducted in 1997 RECS. The data were collected from a sample of 5,900 housing units statistically selected to represent the 101.5 million units in the United States. The 1997 data are available for the four Census regions, the nine Census divisions, and for the four most populous States--California, Florida, New York, and Texas.

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

**Table HC4-1a. Air Conditioning by Climate Zone,
Million U.S. Households, 1997**

Air Conditioning Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	2.3	1.0	0.9	1.4	0.9	
Total Households With							
Air-Conditioning	73.6	5.3	18.6	17.8	12.2	19.7	8.3
Central Equipment Not Used	0.3	Q	Q	Q	Q	Q	54.3
Room Air Conditioners Not Used ..	0.7	Q	0.4	Q	Q	Q	31.0
Households Using Electric Air-Conditioning²							
.....	72.6	5.2	18.2	17.6	12.0	19.6	8.4
Type of Electric Air-Conditioning Used							
Central Air-Conditioning ³	47.5	2.9	10.5	10.3	8.4	15.3	10.0
Without a Heat Pump	36.9	2.7	9.8	7.5	5.7	11.1	12.2
With a Heat Pump	10.6	0.1	0.7	2.9	2.7	4.2	18.3
Room Air-Conditioning	25.2	2.3	7.7	7.3	3.6	4.3	11.2
1 Unit	14.9	1.7	5.0	3.7	2.5	2.0	12.2
2 Units	7.2	0.5	2.0	2.5	0.9	1.4	15.7
3 or More Units	3.0	Q	0.8	1.1	0.2	0.9	22.5
Number of Rooms Air-Conditioned in Summer 1997							
One or Two	13.0	1.1	4.6	3.6	1.7	2.0	11.5
Three	8.2	0.5	2.0	1.8	1.4	2.5	14.0
Four	11.6	0.7	2.8	3.2	1.9	3.0	15.0
Five or More	39.8	2.8	8.9	9.0	7.0	12.1	10.6
Percentage of Rooms Air-Conditioned							
100%	50.2	3.1	11.0	11.4	9.1	15.6	9.7
50% to 99%	11.4	1.1	3.0	3.1	1.5	2.6	13.0
25% to 49%	7.0	0.6	2.3	2.1	1.1	0.9	15.5
1% to 24%	4.0	0.3	1.9	1.0	0.3	0.4	17.0
Large Tree(s) that Shade the Home							
Yes	35.5	2.7	8.2	8.0	6.2	10.4	11.4
No	37.2	2.5	10.0	9.6	5.8	9.2	10.0
Central Air-Conditioner Age (excludes systems for more than one housing unit)							
Less than 5 Years	13.1	0.8	3.0	3.0	2.4	4.0	13.2
5 to 9 Years	14.1	1.0	3.0	2.8	2.7	4.5	14.7
10 to 19 Years	12.8	0.8	2.5	2.9	2.3	4.3	14.3
20 Years or More	3.9	0.2	1.1	1.0	0.6	1.0	20.6
Don't Know	2.7	Q	0.7	0.5	0.4	1.1	26.9
Central Air-Conditioning Use							
Only a Few Times	12.6	1.4	4.4	2.6	2.0	2.1	15.2
Quite a Bit	10.5	1.0	2.8	2.7	1.7	2.3	13.3
All Summer	24.4	0.4	3.3	5.0	4.7	10.9	12.5
Pays for Electricity for Central Air-Conditioning							
Yes	46.2	2.8	10.4	10.0	8.2	14.7	10.1
No	1.1	Q	Q	0.3	Q	0.5	43.5

See footnotes at end of table.

**Table HC4-1a. Air Conditioning by Climate Zone,
Million U.S. Households, 1997 (Continued)**

Air Conditioning Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	2.3	1.0	0.9	1.4	0.9	
Age of Most-Used Room Air Conditioner							
Less than 5 Years	8.7	0.7	2.4	2.4	1.5	1.7	14.1
5 to 9 Years	6.9	0.6	2.4	1.9	0.9	1.1	14.5
10 or 19 Years	5.7	0.6	1.6	1.6	0.8	1.0	15.3
20 or More Years	2.0	0.3	0.7	0.6	0.3	Q	19.0
Don't Know	1.9	0.1	0.7	0.6	0.2	0.3	23.5
Pays for Electricity for Room Air-Conditioning							
Yes	23.4	2.1	7.3	6.8	3.3	4.0	11.7
No	1.7	0.2	0.4	0.5	0.3	0.3	32.3
Room Air-Conditioning Use							
Only a Few Times	13.2	1.5	4.7	3.9	1.7	1.5	12.4
Quite a Bit	6.5	0.6	1.9	2.0	0.9	1.0	14.6
All Summer	5.5	Q	1.1	1.4	1.0	1.8	16.5

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

² The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

³ Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC4-2a. Air Conditioning by Year of Construction,
Million U.S. Households, 1997**

Air Conditioning Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.4	1.8	1.3	0.9	1.1	1.0	0.9	
Households With Electric Air-Conditioning Equipment								
Air-Conditioning Equipment	73.6	8.3	14.8	14.8	10.2	8.9	16.5	4.7
Central Equipment Not Used	0.3	Q	Q	Q	Q	Q	Q	43.9
Room Air Conditioners Not Used ..	0.7	Q	Q	Q	Q	Q	0.3	29.1
Households Using Electric Air-Conditioning²								
Air-Conditioning ²	72.6	8.3	14.6	14.7	10.0	8.9	16.1	4.7
Type of Electric Air-Conditioning Used								
Central Air-Conditioning ³	47.5	7.5	12.9	10.8	6.5	4.6	5.2	6.2
Without a Heat Pump	36.9	5.6	9.0	8.2	5.5	3.8	4.8	7.5
With a Heat Pump	10.6	1.9	3.9	2.6	1.0	0.8	0.3	15.2
Room Air-Conditioning	25.2	0.8	1.8	3.9	3.5	4.3	10.9	8.6
1 Unit	14.9	0.6	1.4	2.6	2.0	2.2	6.0	10.8
2 Units	7.2	Q	0.3	0.9	0.9	1.5	3.5	13.4
3 or More Units	3.0	Q	Q	0.4	0.5	0.6	1.5	19.9
Number of Rooms Air-Conditioned in Summer 1997								
One or Two	13.0	0.6	1.3	2.1	1.7	1.8	5.5	11.3
Three	8.2	0.3	1.4	2.2	1.3	0.9	2.2	13.2
Four	11.6	1.3	2.6	2.2	1.5	1.2	2.6	11.7
Five or More	39.8	6.0	9.3	8.2	5.5	5.0	5.8	6.3
Percentage of Rooms Air-Conditioned								
100%	50.2	7.5	12.3	11.2	7.2	5.6	6.6	5.8
50% to 99%	11.4	0.4	1.6	2.0	1.5	1.7	4.2	11.3
25% to 49%	7.0	0.2	0.6	1.1	0.8	1.1	3.2	14.8
1% to 24%	4.0	0.2	0.2	0.4	0.5	0.6	2.1	17.5
Large Tree(s) that Shade the Home								
Yes	35.5	2.2	6.7	7.4	5.6	4.8	8.8	7.1
No	37.2	6.1	8.0	7.3	4.4	4.1	7.3	6.9
Central Air-Conditioner Age (excludes systems for more than one housing unit)								
Less than 5 Years	13.1	4.7	1.5	2.4	1.6	1.3	1.7	9.8
5 to 9 Years	14.1	2.6	5.0	2.3	1.5	1.1	1.5	11.7
10 to 19 Years	12.8	Q	5.5	3.2	1.5	1.3	1.2	11.3
20 Years or More	3.9	Q	Q	1.5	1.3	0.6	0.5	17.1
Don't Know	2.7	Q	0.6	1.2	0.3	0.2	0.3	23.3
Central Air-Conditioning Use								
Only a Few Times	12.6	1.6	3.2	2.8	1.8	1.6	1.6	11.3
Quite a Bit	10.5	1.8	2.7	2.4	1.3	0.9	1.4	11.7
All Summer	24.4	4.2	7.0	5.6	3.5	2.0	2.1	8.3
Pays for Electricity for Central Air-Conditioning								
Yes	46.2	7.4	12.5	10.5	6.2	4.6	5.1	6.3
No	1.1	Q	0.3	0.3	0.3	Q	Q	38.3

See footnotes at end of table.

**Table HC4-2a. Air Conditioning by Year of Construction,
Million U.S. Households, 1997 (Continued)**

Air Conditioning Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.4	1.8	1.3	0.9	1.1	1.0	0.9	
Age of Most-Used Room Air Conditioner								
Less than 5 Years	8.7	0.5	0.7	1.2	1.1	1.5	3.8	11.5
5 to 9 Years	6.9	0.2	0.4	1.0	0.9	1.0	3.3	14.5
10 or 19 Years	5.7	Q	0.5	0.9	0.7	1.1	2.5	14.0
20 or More Years	2.0	Q	Q	0.4	0.5	0.4	0.7	22.1
Don't Know	1.9	Q	Q	0.4	0.3	0.4	0.6	23.7
Pays for Electricity for Room Air-Conditioning								
Yes	23.4	0.8	1.4	3.5	3.3	4.1	10.3	8.8
No	1.7	Q	0.3	0.4	Q	0.2	0.6	31.7
Room Air-Conditioning Use								
Only a Few Times	13.2	0.3	1.1	1.9	1.7	2.2	6.0	11.7
Quite a Bit	6.5	0.2	0.3	0.9	1.0	1.1	2.9	14.2
All Summer	5.5	0.3	0.3	1.1	0.8	1.0	2.0	15.1

¹ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

² The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

³ Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC4-3a. Air Conditioning by Household Income,
Million U.S. Households, 1997**

Air Conditioning Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.5	1.0	0.9	1.1	1.4	1.0	
Households With Electric Air-Conditioning Equipment								
Air-Conditioning Equipment	73.6	8.2	19.6	23.4	22.4	8.4	21.3	3.6
Central Equipment Not Used	0.3	Q	Q	Q	Q	Q	Q	35.0
Room Air Conditioners Not Used ..	0.7	Q	0.2	0.2	0.2	Q	0.3	30.0
Households Using Electric Air-Conditioning²								
Air-Conditioning ²	72.6	8.1	19.3	23.1	22.2	8.3	20.9	3.6
Type of Electric Air-Conditioning Used								
Central Air-Conditioning ³	47.5	3.6	10.9	15.6	17.3	3.7	10.5	5.4
Without a Heat Pump	36.9	2.8	8.4	12.5	13.3	2.8	8.0	6.7
With a Heat Pump	10.6	0.9	2.5	3.2	4.1	0.8	2.5	12.5
Room Air-Conditioning	25.2	4.4	8.4	7.5	4.9	4.6	10.4	5.7
1 Unit	14.9	3.3	5.5	4.0	2.2	3.4	6.9	7.0
2 Units	7.2	1.0	2.1	2.6	1.5	1.1	2.7	10.2
3 or More Units	3.0	Q	0.8	0.9	1.2	0.2	0.8	18.7
Number of Rooms Air-Conditioned in Summer 1997								
One or Two	13.0	2.8	4.3	3.3	2.6	2.7	5.5	7.6
Three	8.2	1.6	2.8	2.7	1.1	1.5	3.4	9.2
Four	11.6	1.5	3.9	4.2	2.0	1.5	4.0	8.8
Five or More	39.8	2.2	8.2	12.9	16.5	2.6	8.0	5.8
Percentage of Rooms Air-Conditioned								
100%	50.2	4.9	12.7	16.3	16.4	4.7	13.1	4.8
50% to 99%	11.4	1.5	3.3	3.6	3.0	1.8	3.8	7.9
25% to 49%	7.0	1.3	2.1	1.9	1.6	1.2	2.7	11.0
1% to 24%	4.0	0.4	1.1	1.3	1.2	0.6	1.2	13.0
Large Tree(s) that Shade the Home								
Yes	35.5	3.1	9.1	11.8	11.5	3.3	8.7	5.9
No	37.2	5.0	10.2	11.3	10.7	5.0	12.1	5.7
Central Air-Conditioner Age (excludes systems for more than one housing unit)								
Less than 5 Years	13.1	1.0	2.8	4.5	4.9	1.0	2.9	9.1
5 to 9 Years	14.1	0.8	3.1	4.3	5.9	0.9	2.7	11.0
10 to 19 Years	12.8	1.0	2.9	4.2	4.6	0.9	2.7	9.7
20 Years or More	3.9	0.3	1.1	1.4	1.2	0.3	1.0	16.7
Don't Know	2.7	0.4	0.7	1.1	0.6	0.4	0.8	19.9
Central Air-Conditioning Use								
Only a Few Times	12.6	1.2	2.8	4.4	4.2	1.1	3.0	10.3
Quite a Bit	10.5	0.8	2.0	3.5	4.2	0.8	2.1	10.2
All Summer	24.4	1.7	6.0	7.8	9.0	1.8	5.4	7.4
Pays for Electricity for Central Air-Conditioning								
Yes	46.2	3.4	10.3	15.4	17.1	3.4	9.8	5.5
No	1.1	0.2	0.4	0.3	Q	Q	0.5	31.5

See footnotes at end of table.

Table HC4-3a. Air Conditioning by Household Income, Million U.S. Households, 1997 (Continued)

Air Conditioning Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.5	1.0	0.9	1.1	1.4	1.0	
Age of Most-Used Room Air Conditioner								
Less than 5 Years	8.7	1.7	2.5	2.8	1.7	1.7	3.6	9.1
5 to 9 Years	6.9	1.0	2.2	2.1	1.6	1.1	2.6	10.4
10 or 19 Years	5.7	0.9	2.3	1.4	1.1	1.0	2.4	10.1
20 or More Years	2.0	0.3	0.7	0.7	0.3	0.3	0.8	16.4
Don't Know	1.9	0.5	0.6	0.5	0.3	0.5	1.0	18.0
Pays for Electricity for Room Air-Conditioning								
Yes	23.4	3.7	7.8	7.2	4.8	3.9	9.4	6.0
No	1.7	0.8	0.6	0.3	Q	0.7	1.0	22.5
Room Air-Conditioning Use								
Only a Few Times	13.2	2.3	4.7	3.9	2.4	2.4	5.5	7.6
Quite a Bit	6.5	0.9	1.8	2.4	1.3	1.0	2.2	11.0
All Summer	5.5	1.2	1.9	1.2	1.2	1.3	2.7	10.6

¹ Below 150 percent of poverty line or 60 percent of median State income.

² The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

³ Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC4-4a. Air Conditioning by Type of Housing Unit,
Million U.S. Households, 1997**

Air Conditioning Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.6	1.8	1.3	1.7	
Households With Electric Air-Conditioning Equipment						
Households With Electric Air-Conditioning Equipment	73.6	54.4	3.5	11.1	4.5	4.8
Central Equipment Not Used	0.3	0.2	Q	Q	Q	50.2
Room Air Conditioners Not Used ..	0.7	0.5	Q	Q	Q	37.3
Households Using Electric Air-Conditioning¹						
Households Using Electric Air-Conditioning ¹	72.6	53.8	3.4	10.9	4.5	4.8
Type of Electric Air-Conditioning Used						
Central Air-Conditioning ²	47.5	36.8	1.6	6.5	2.6	7.0
Without a Heat Pump	36.9	28.3	1.4	5.1	2.1	8.4
With a Heat Pump	10.6	8.4	Q	1.4	0.6	17.2
Room Air-Conditioning	25.2	17.1	1.8	4.4	1.9	7.8
1 Unit	14.9	8.7	1.4	3.4	1.3	9.3
2 Units	7.2	5.6	0.4	0.8	0.4	13.4
3 or More Units	3.0	2.7	Q	Q	Q	21.3
Number of Rooms Air-Conditioned in Summer 1997						
One or Two	13.0	7.3	1.2	3.7	0.9	9.2
Three	8.2	4.2	0.8	2.8	0.4	11.5
Four	11.6	6.0	0.8	3.4	1.5	10.5
Five or More	39.8	36.5	0.6	1.0	1.7	8.4
Percentage of Rooms Air-Conditioned						
100%	50.2	37.0	2.0	8.0	3.2	6.3
50% to 99%	11.4	9.1	0.5	1.1	0.7	11.1
25% to 49%	7.0	4.4	0.7	1.5	0.4	13.4
1% to 24%	4.0	3.4	0.2	0.2	Q	15.0
Large Tree(s) that Shade the Home						
Yes	35.5	29.6	1.0	3.0	1.9	8.3
No	37.2	24.3	2.5	7.9	2.6	6.9
Central Air-Conditioner Age (excludes systems for more than one housing unit)						
Less than 5 Years	13.1	10.7	0.3	0.9	1.2	12.0
5 to 9 Years	14.1	11.3	0.3	1.8	0.6	14.6
10 to 19 Years	12.8	10.5	0.4	1.4	0.5	12.7
20 Years or More	3.9	2.9	Q	0.7	0.2	19.1
Don't Know	2.7	1.1	0.5	1.0	Q	19.6
Central Air-Conditioning Use						
Only a Few Times	12.6	9.6	0.4	2.0	0.6	13.2
Quite a Bit	10.5	8.0	0.6	1.3	0.6	12.0
All Summer	24.4	19.2	0.6	3.2	1.5	9.3
Pays for Electricity for Central Air-Conditioning						
Yes	46.2	36.5	1.5	5.8	2.4	7.1
No	1.1	0.2	Q	0.5	Q	35.9

See footnotes at end of table.

**Table HC4-4a. Air Conditioning by Type of Housing Unit,
Million U.S. Households, 1997 (Continued)**

Air Conditioning Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.6	1.8	1.3	1.7	
Age of Most-Used Room Air Conditioner						
Less than 5 Years	8.7	5.9	0.7	1.4	0.7	10.7
5 to 9 Years	6.9	4.8	0.6	1.0	0.4	12.8
10 or 19 Years	5.7	4.3	0.2	0.8	0.4	13.7
20 or More Years	2.0	1.2	Q	0.5	Q	20.6
Don't Know	1.9	0.8	Q	0.7	0.2	20.8
Pays for Electricity for Room Air-Conditioning						
Yes	23.4	16.8	1.6	3.3	1.8	8.1
No	1.7	0.3	0.2	1.1	Q	29.1
Room Air-Conditioning Use						
Only a Few Times	13.2	8.8	1.1	2.4	0.8	10.0
Quite a Bit	6.5	4.5	0.4	1.1	0.4	11.7
All Summer	5.5	3.8	0.2	0.9	0.6	13.8

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC4-5a. Air Conditioning by Type of Owner-Occupied Housing Unit,
Million U.S. Households, 1997**

Air Conditioning Characteristics	Total Owner-Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.5	1.7	1.3	1.6	
Total	52.5	54.4	3.5	11.1	4.5	5.2
Central Equipment Not Used	0.2	0.2	Q	Q	Q	47.0
Room Air Conditioners Not Used ..	0.5	0.5	Q	Q	Q	38.8
Households Using Electric Air-Conditioning¹	51.9	53.8	3.4	10.9	4.5	5.2
Type of Electric Air-Conditioning Used						
Central Air-Conditioning ²	36.1	36.8	1.6	6.5	2.6	7.3
Without a Heat Pump	28.2	28.3	1.4	5.1	2.1	8.6
With a Heat Pump	7.9	8.4	Q	1.4	0.6	17.8
Room Air-Conditioning	15.7	17.1	1.8	4.4	1.9	8.2
1 Unit	7.8	8.7	1.4	3.4	1.3	9.9
2 Units	5.2	5.6	0.4	0.8	0.4	13.9
3 or More Units	2.7	2.7	Q	Q	Q	20.2
Number of Rooms Air-Conditioned in Summer 1997						
One or Two	6.2	7.3	1.2	3.7	0.9	10.0
Three	3.9	4.2	0.8	2.8	0.4	12.5
Four	6.6	6.0	0.8	3.4	1.5	10.8
Five or More	35.2	36.5	0.6	1.0	1.7	8.5
Percentage of Rooms Air-Conditioned						
100%	36.6	37.0	2.0	8.0	3.2	6.7
50% to 99%	8.6	9.1	0.5	1.1	0.7	11.4
25% to 49%	3.8	4.4	0.7	1.5	0.4	14.4
1% to 24%	2.9	3.4	0.2	0.2	Q	15.4
Large Tree(s) that Shade the Home						
Yes	28.3	29.6	1.0	3.0	1.9	8.5
No	23.5	24.3	2.5	7.9	2.6	7.3
Central Air-Conditioner Age (excludes systems for more than one housing unit)						
Less than 5 Years	11.1	10.7	0.3	0.9	1.2	12.4
5 to 9 Years	11.1	11.3	0.3	1.8	0.6	14.7
10 to 19 Years	10.2	10.5	0.4	1.4	0.5	13.1
20 Years or More	2.8	2.9	Q	0.7	0.2	19.0
Don't Know	0.7	1.1	0.5	1.0	Q	20.6
Central Air-Conditioning Use						
Only a Few Times	9.3	9.6	0.4	2.0	0.6	13.7
Quite a Bit	7.9	8.0	0.6	1.3	0.6	12.7
All Summer	18.9	19.2	0.6	3.2	1.5	9.5
Pays for Electricity for Central Air-Conditioning						
Yes	35.8	36.5	1.5	5.8	2.4	7.4
No	0.3	0.2	Q	0.5	Q	40.9

See footnotes at end of table.

Table HC4-5a. Air Conditioning by Type of Owner-Occupied Housing Unit, Million U.S. Households, 1997 (Continued)

Air Conditioning Characteristics	Total Owner-Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.5	1.7	1.3	1.6	
Age of Most-Used Room Air Conditioner						
Less than 5 Years	5.3	5.9	0.7	1.4	0.7	11.3
5 to 9 Years	4.6	4.8	0.6	1.0	0.4	13.4
10 or 19 Years	4.0	4.3	0.2	0.8	0.4	14.6
20 or More Years	1.3	1.2	Q	0.5	Q	21.5
Don't Know	0.5	0.8	Q	0.7	0.2	25.1
Pays for Electricity for Room Air-Conditioning						
Yes	15.6	16.8	1.6	3.3	1.8	8.5
No	Q	0.3	0.2	1.1	Q	NF
Room Air-Conditioning Use						
Only a Few Times	8.2	8.8	1.1	2.4	0.8	10.7
Quite a Bit	4.1	4.5	0.4	1.1	0.4	12.0
All Summer	3.5	3.8	0.2	0.9	0.6	14.8

¹ The number of households where the end use is electric air-conditioning excludes households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those latter households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC4-6a. Air Conditioning by Type of Rented Housing Unit,
Million U.S. Households, 1997**

Air Conditioning Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.7	0.5	1.6	1.2	1.4	
Total	21.1	54.4	3.5	11.1	4.5	5.9
Central Equipment Not Used	Q	0.2	Q	Q	Q	NF
Room Air Conditioners Not Used ..	0.2	0.5	Q	Q	Q	51.6
Households Using Electric Air-Conditioning¹	20.8	53.8	3.4	10.9	4.5	5.9
Type of Electric Air-Conditioning Used						
Central Air-Conditioning ²	11.3	36.8	1.6	6.5	2.6	8.5
Without a Heat Pump	8.7	28.3	1.4	5.1	2.1	9.9
With a Heat Pump	2.6	8.4	Q	1.4	0.6	17.9
Room Air-Conditioning	9.4	17.1	1.8	4.4	1.9	8.6
1 Unit	7.1	8.7	1.4	3.4	1.3	10.1
2 Units	2.0	5.6	0.4	0.8	0.4	15.2
3 or More Units	0.3	2.7	Q	Q	Q	23.6
Number of Rooms Air-Conditioned in Summer 1997						
One or Two	6.8	7.3	1.2	3.7	0.9	10.1
Three	4.4	4.2	0.8	2.8	0.4	12.5
Four	5.0	6.0	0.8	3.4	1.5	12.0
Five or More	4.6	36.5	0.6	1.0	1.7	9.8
Percentage of Rooms Air-Conditioned						
100%	13.7	37.0	2.0	8.0	3.2	7.5
50% to 99%	2.8	9.1	0.5	1.1	0.7	12.5
25% to 49%	3.2	4.4	0.7	1.5	0.4	14.7
1% to 24%	1.1	3.4	0.2	0.2	Q	16.1
Large Tree(s) that Shade the Home						
Yes	7.1	29.6	1.0	3.0	1.9	10.0
No	13.6	24.3	2.5	7.9	2.6	7.7
Central Air-Conditioner Age (excludes systems for more than one housing unit)						
Less than 5 Years	2.0	10.7	0.3	0.9	1.2	14.9
5 to 9 Years	3.0	11.3	0.3	1.8	0.6	17.9
10 to 19 Years	2.6	10.5	0.4	1.4	0.5	14.8
20 Years or More	1.2	2.9	Q	0.7	0.2	21.4
Don't Know	2.0	1.1	0.5	1.0	Q	19.9
Central Air-Conditioning Use						
Only a Few Times	3.3	9.6	0.4	2.0	0.6	15.7
Quite a Bit	2.6	8.0	0.6	1.3	0.6	14.0
All Summer	5.5	19.2	0.6	3.2	1.5	10.6
Pays for Electricity for Central Air-Conditioning						
Yes	10.4	36.5	1.5	5.8	2.4	8.7
No	0.8	0.2	Q	0.5	Q	34.9

See footnotes at end of table.

**Table HC4-6a. Air Conditioning by Type of Rented Housing Unit,
Million U.S. Households, 1997 (Continued)**

Air Conditioning Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.7	0.5	1.6	1.2	1.4	
Age of Most-Used Room Air Conditioner						
Less than 5 Years	3.4	5.9	0.7	1.4	0.7	11.7
5 to 9 Years	2.3	4.8	0.6	1.0	0.4	13.7
10 or 19 Years	1.7	4.3	0.2	0.8	0.4	15.4
20 or More Years	0.7	1.2	Q	0.5	Q	23.6
Don't Know	1.4	0.8	Q	0.7	0.2	21.1
Pays for Electricity for Room Air-Conditioning						
Yes	7.8	16.8	1.6	3.3	1.8	8.9
No	1.7	0.3	0.2	1.1	Q	28.6
Room Air-Conditioning Use						
Only a Few Times	5.0	8.8	1.1	2.4	0.8	10.5
Quite a Bit	2.4	4.5	0.4	1.1	0.4	13.4
All Summer	2.0	3.8	0.2	0.9	0.6	14.9

¹ The number of households where the end use is electric air-conditioning excludes households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those latter households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC4-7a. Air Conditioning by Four Most Populated States,
Million U.S. Households, 1997**

Air Conditioning Characteristics	Four Most Populated States					RSE Row Factors
	Total	New York	California	Texas	Florida	
	0.4	1.2	1.9	1.1	1.0	
RSE Column Factor:						
Households With Electric Air-Conditioning Equipment	73.6	4.3	4.8	6.4	5.7	3.5
Central Equipment Not Used	0.3	Q	0.1	(*)	0.1	29.0
Room Air Conditioners Not Used	0.7	Q	Q	Q	0.1	43.1
Households Using Electric Air-Conditioning¹	72.6	4.2	4.6	6.3	5.6	3.3
Type of Electric Air-Conditioning Used						
Central Air-Conditioning ²	47.5	1.3	3.2	4.8	4.9	5.4
Without a Heat Pump	36.9	1.2	2.9	4.1	2.5	10.6
With a Heat Pump	10.6	0.1	0.3	0.7	2.4	21.2
Room Air-Conditioning	25.2	3.0	1.4	1.6	0.7	10.7
1 Unit	14.9	1.6	1.3	0.7	0.5	12.5
2 Units	7.2	1.0	0.1	0.5	0.1	17.8
3 or More Units	3.0	0.5	Q	0.4	0.1	28.7
Number of Rooms Air-Conditioned in Summer 1997						
One or Two	13.0	1.9	1.0	0.8	0.3	14.4
Three	8.2	0.4	0.7	1.1	0.3	13.1
Four	11.6	0.9	0.7	0.7	0.9	19.0
Five or More	39.8	1.0	2.2	3.7	4.1	10.5
Percentage of Rooms Air-Conditioned						
100%	50.2	1.9	3.4	5.0	4.8	5.2
50% to 99%	11.4	0.8	0.5	0.9	0.6	16.9
25% to 49%	7.0	0.9	0.5	0.4	Q	17.8
1% to 24%	4.0	0.7	0.2	0.1	Q	15.5
Large Tree(s) that Shade the Home						
Yes	35.5	1.5	1.7	3.2	3.2	9.7
No	37.2	2.7	2.9	3.2	2.4	7.6
Central Air-Conditioner Age (excludes systems for more than one housing unit)						
Less than 5 Years	13.1	0.5	0.6	1.6	1.0	10.5
5 to 9 Years	14.1	0.4	1.1	1.1	1.8	16.7
10 to 19 Years	12.8	0.1	0.9	1.3	1.5	14.6
20 Years or More	3.9	Q	0.5	0.2	0.3	16.6
Don't Know	2.7	Q	0.1	0.3	0.3	28.3
Central Air-Conditioning Use						
Only a Few Times	12.6	0.5	1.7	0.5	0.7	15.2
Quite a Bit	10.5	0.4	0.8	0.6	0.7	13.5
All Summer	24.4	0.4	0.7	3.6	3.5	9.1
Pays for Electricity for Central Air-Conditioning						
Yes	46.2	1.2	3.0	4.5	4.8	5.8
No	1.1	Q	Q	Q	0.1	43.9

See footnotes at end of table.

**Table HC4-7a. Air Conditioning by Four Most Populated States,
Million U.S. Households, 1997 (Continued)**

Air Conditioning Characteristics	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.2	1.9	1.1	1.0	
Age of Most-Used Room Air Conditioner						
Less than 5 Years	8.7	1.0	0.6	0.7	0.3	12.8
5 to 9 Years	6.9	0.9	0.3	0.5	0.1	21.3
10 or 19 Years	5.7	0.7	0.3	0.2	0.2	15.6
20 or More Years	2.0	0.1	0.2	Q	Q	20.6
Don't Know	1.9	0.3	0.2	0.1	0.1	26.9
Pays for Electricity for Room Air-Conditioning						
Yes	23.4	2.7	1.2	1.5	0.6	12.2
No	1.7	0.3	Q	0.1	Q	32.6
Room Air-Conditioning Use						
Only a Few Times	13.2	1.8	1.0	0.5	0.3	12.6
Quite a Bit	6.5	0.8	0.2	0.4	0.2	16.6
All Summer	5.5	0.4	0.2	0.7	0.3	23.1

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

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

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC4-8a. Air Conditioning by Urban/Rural Location,
Million U.S. Households, 1997**

Air Conditioning Characteristics	Urban/Rural Location ¹					RSE Row Factors
	Total	City	Town	Suburbs	Rural	
	0.5	0.8	1.4	1.3	1.3	
Households With Electric Air-Conditioning Equipment						
Households With Electric Air-Conditioning Equipment	73.6	33.7	13.3	15.0	11.6	4.3
Central Equipment Not Used	0.3	0.3	Q	Q	Q	30.8
Room Air Conditioners Not Used	0.7	0.4	0.1	Q	Q	29.8
Households Using Electric Air-Conditioning²						
Households Using Electric Air-Conditioning ²	72.6	33.1	13.1	14.8	11.5	4.4
Type of Electric Air-Conditioning Used						
Central Air-Conditioning ³	47.5	20.5	7.8	11.9	7.2	5.5
Without a Heat Pump	36.9	16.4	6.5	9.1	4.9	6.7
With a Heat Pump	10.6	4.1	1.3	2.8	2.4	12.1
Room Air-Conditioning	25.2	12.6	5.4	2.9	4.3	6.9
1 Unit	14.9	7.8	3.0	1.7	2.4	8.9
2 Units	7.2	3.3	1.7	0.8	1.4	10.8
3 or More Units	3.0	1.5	0.6	0.4	0.6	16.8
Number of Rooms Air-Conditioned in Summer 1997						
One or Two	13.0	7.2	2.6	1.4	1.8	8.8
Three	8.2	4.2	1.6	0.9	1.4	11.2
Four	11.6	5.8	2.1	2.2	1.5	9.8
Five or More	39.8	15.9	6.8	10.3	6.8	6.0
Percentage of Rooms Air-Conditioned						
100%	50.2	22.8	8.7	11.6	7.2	5.4
50% to 99%	11.4	4.7	2.3	2.1	2.3	8.6
25% to 49%	7.0	3.9	1.3	0.5	1.3	11.6
1% to 24%	4.0	1.7	0.9	0.7	0.7	12.7
Large Tree(s) that Shade the Home						
Yes	35.5	14.3	6.5	8.2	6.5	6.5
No	37.2	18.8	6.7	6.6	5.0	6.1
Central Air-Conditioner Age (excludes systems for more than one housing unit)						
Less than 5 Years	13.1	5.1	2.2	3.2	2.6	7.9
5 to 9 Years	14.1	6.4	2.3	3.3	2.1	10.3
10 to 19 Years	12.8	5.0	2.3	3.7	1.8	9.8
20 Years or More	3.9	1.7	0.8	1.0	0.5	15.3
Don't Know	2.7	1.7	0.2	0.6	0.2	20.4
Central Air-Conditioning Use						
Only a Few Times	12.6	5.5	2.2	3.1	1.8	9.3
Quite a Bit	10.5	4.4	1.5	2.9	1.6	9.6
All Summer	24.4	10.6	4.0	6.0	3.8	7.4
Pays for Electricity for Central Air-Conditioning						
Yes	46.2	19.8	7.6	11.7	7.1	5.6
No	1.1	0.6	Q	0.2	0.1	30.8

See footnotes at end of table.

**Table HC4-8a. Air Conditioning by Urban/Rural Location,
Million U.S. Households, 1997 (Continued)**

Air Conditioning Characteristics	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
RSE Column Factor:	0.5	0.8	1.4	1.3	1.3	
Age of Most-Used Room Air Conditioner						
Less than 5 Years	8.7	4.6	1.9	0.9	1.3	10.4
5 to 9 Years	6.9	3.5	1.5	0.8	1.2	11.8
10 or 19 Years	5.7	2.7	1.1	0.8	1.1	10.8
20 or More Years	2.0	0.7	0.6	0.3	0.4	19.2
Don't Know	1.9	1.2	0.2	0.2	0.3	19.1
Pays for Electricity for Room Air-Conditioning						
Yes	23.4	11.5	5.0	2.7	4.2	7.2
No	1.7	1.1	0.3	0.2	0.1	30.0
Room Air-Conditioning Use						
Only a Few Times	13.2	6.8	2.9	1.4	2.1	8.6
Quite a Bit	6.5	3.3	1.3	0.8	1.1	10.0
All Summer	5.5	2.6	1.1	0.7	1.1	12.7

¹ Based on the household respondent's description rather than the Federal Government definition.

² The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

³ Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC4-9a. Air Conditioning by Northeast Census Region,
Million U.S. Households, 1997**

Air Conditioning Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.4	1.0	1.1	2.0	
Households With Electric Air-Conditioning Equipment					
Households With Electric Air-Conditioning Equipment	73.6	12.5	9.9	2.6	3.8
Central Equipment Not Used	0.3	Q	Q	Q	46.6
Room Air Conditioners Not Used	0.7	0.3	0.2	Q	32.1
Households Using Electric Air-Conditioning¹					
Households Using Electric Air-Conditioning ¹	72.6	12.2	9.7	2.5	4.2
Type of Electric Air-Conditioning Used					
Central Air-Conditioning ²	47.5	4.4	4.0	0.4	11.2
Without a Heat Pump	36.9	3.9	3.5	0.4	13.6
With a Heat Pump	10.6	0.5	0.4	Q	28.3
Room Air-Conditioning	25.2	7.8	5.7	2.1	7.4
1 Unit	14.9	4.0	2.8	1.2	9.3
2 Units	7.2	2.7	2.1	0.6	10.7
3 or More Units	3.0	1.1	0.8	0.3	19.0
Number of Rooms Air-Conditioned in Summer 1997					
One or Two	13.0	4.7	3.5	1.2	9.2
Three	8.2	1.4	1.0	0.3	11.8
Four	11.6	1.9	1.6	0.3	14.6
Five or More	39.8	4.3	3.6	0.7	8.8
Percentage of Rooms Air-Conditioned					
100%	50.2	5.9	4.9	1.0	6.4
50% to 99%	11.4	2.3	1.8	0.4	11.2
25% to 49%	7.0	2.2	1.6	0.6	12.8
1% to 24%	4.0	1.8	1.3	0.5	12.2
Large Tree(s) that Shade the Home					
Yes	35.5	5.2	4.1	1.1	7.5
No	37.2	7.0	5.6	1.4	7.4
Central Air-Conditioner Age (excludes systems for more than one housing unit)					
Less than 5 Years	13.1	1.3	1.2	Q	9.5
5 to 9 Years	14.1	1.4	1.2	0.2	19.1
10 to 19 Years	12.8	1.1	1.0	Q	22.5
20 Years or More	3.9	0.4	0.4	Q	21.8
Don't Know	2.7	Q	Q	Q	29.4
Central Air-Conditioning Use					
Only a Few Times	12.6	1.9	1.7	0.3	14.8
Quite a Bit	10.5	1.1	1.0	Q	19.3
All Summer	24.4	1.4	1.3	Q	10.0
Pays for Electricity for Central Air-Conditioning					
Yes	46.2	4.3	3.9	0.4	11.3
No	1.1	Q	Q	Q	46.8

See footnotes at end of table.

**Table HC4-9a. Air Conditioning by Northeast Census Region,
Million U.S. Households, 1997 (Continued)**

Air Conditioning Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.4	1.0	1.1	2.0	
Age of Most-Used Room Air Conditioner					
Less than 5 Years	8.7	2.6	1.8	0.7	11.0
5 to 9 Years	6.9	2.4	1.7	0.7	10.6
10 or 19 Years	5.7	1.7	1.4	0.3	12.4
20 or More Years	2.0	0.6	0.4	0.2	21.1
Don't Know	1.9	0.5	0.4	0.1	19.4
Pays for Electricity for Room Air-Conditioning					
Yes	23.4	7.2	5.3	1.9	7.2
No	1.7	0.6	0.4	0.1	26.1
Room Air-Conditioning Use					
Only a Few Times	13.2	5.2	3.8	1.4	8.3
Quite a Bit	6.5	1.7	1.3	0.5	8.3
All Summer	5.5	0.8	0.6	0.2	16.3

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC4-10a. Air Conditioning by Midwest Census Region,
Million U.S. Households, 1997**

Air Conditioning Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.5	
Households With Electric Air-Conditioning Equipment					
Households With Electric Air-Conditioning Equipment	73.6	18.8	12.5	6.3	2.3
Central Equipment Not Used	0.3	Q	Q	Q	36.3
Room Air Conditioners Not Used	0.7	0.2	Q	Q	26.4
Households Using Electric Air-Conditioning¹					
Households Using Electric Air-Conditioning ¹	72.6	18.6	12.4	6.3	2.2
Type of Electric Air-Conditioning Used					
Central Air-Conditioning ²	47.5	12.3	8.0	4.3	4.2
Without a Heat Pump	36.9	11.9	7.7	4.2	4.8
With a Heat Pump	10.6	0.4	0.3	Q	23.3
Room Air-Conditioning	25.2	6.3	4.3	2.0	8.1
1 Unit	14.9	4.4	2.9	1.4	9.7
2 Units	7.2	1.5	1.0	0.5	13.5
3 or More Units	3.0	0.4	0.3	Q	21.0
Number of Rooms Air-Conditioned in Summer 1997					
One or Two	13.0	3.3	2.3	1.0	8.3
Three	8.2	1.8	1.3	0.4	12.2
Four	11.6	3.1	2.0	1.1	8.9
Five or More	39.8	10.5	6.8	3.8	4.9
Percentage of Rooms Air-Conditioned					
100%	50.2	12.6	8.3	4.3	3.9
50% to 99%	11.4	3.1	2.1	1.0	9.5
25% to 49%	7.0	1.9	1.3	0.6	7.9
1% to 24%	4.0	1.0	0.7	0.4	13.9
Large Tree(s) that Shade the Home					
Yes	35.5	9.3	5.9	3.4	5.7
No	37.2	9.4	6.5	2.9	4.5
Central Air-Conditioner Age (excludes systems for more than one housing unit)					
Less than 5 Years	13.1	3.5	2.3	1.2	7.9
5 to 9 Years	14.1	3.6	2.4	1.2	10.6
10 to 19 Years	12.8	3.1	1.8	1.3	9.9
20 Years or More	3.9	1.3	0.9	0.4	18.7
Don't Know	2.7	0.7	0.6	Q	20.2
Central Air-Conditioning Use					
Only a Few Times	12.6	4.6	3.1	1.6	7.3
Quite a Bit	10.5	3.6	2.5	1.0	9.4
All Summer	24.4	4.2	2.5	1.7	10.0
Pays for Electricity for Central Air-Conditioning					
Yes	46.2	12.1	7.9	4.2	4.0
No	1.1	0.2	Q	Q	40.6

See footnotes at end of table.

**Table HC4-10a. Air Conditioning by Midwest Census Region,
Million U.S. Households, 1997 (Continued)**

Air Conditioning Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.5	
Age of Most-Used Room Air Conditioner					
Less than 5 Years	8.7	1.9	1.5	0.4	8.9
5 to 9 Years	6.9	1.7	1.2	0.5	13.1
10 or 19 Years	5.7	1.5	0.9	0.6	11.6
20 or More Years	2.0	0.5	0.3	0.2	21.4
Don't Know	1.9	0.6	0.3	0.3	20.7
Pays for Electricity for Room Air-Conditioning					
Yes	23.4	5.8	4.0	1.8	8.6
No	1.7	0.5	Q	Q	32.2
Room Air-Conditioning Use					
Only a Few Times	13.2	3.5	2.2	1.3	9.3
Quite a Bit	6.5	1.9	1.4	0.5	12.8
All Summer	5.5	0.9	0.7	0.2	14.1

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC4-11a. Air Conditioning by South Census Region,
Million U.S. Households, 1997**

Air Conditioning Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.6	0.8	1.1	1.5	1.3	
Households With Electric Air-Conditioning Equipment						
Households With Electric Air-Conditioning Equipment	73.6	33.4	17.3	6.0	10.1	1.6
Central Equipment Not Used	0.3	Q	Q	Q	Q	34.1
Room Air Conditioners Not Used	0.7	Q	Q	Q	Q	29.5
Households Using Electric Air-Conditioning¹						
Households Using Electric Air-Conditioning ¹	72.6	33.2	17.2	6.0	10.0	1.6
Type of Electric Air-Conditioning Used						
Central Air-Conditioning ²	47.5	24.9	13.3	4.2	7.4	3.2
Without a Heat Pump	36.9	16.4	7.1	2.9	6.4	6.4
With a Heat Pump	10.6	8.5	6.2	1.3	0.9	12.1
Room Air-Conditioning	25.2	8.3	3.9	1.8	2.6	6.7
1 Unit	14.9	4.2	2.3	0.9	1.1	8.2
2 Units	7.2	2.6	1.1	0.6	1.0	13.2
3 or More Units	3.0	1.5	0.5	0.3	0.6	20.0
Number of Rooms Air-Conditioned in Summer 1997						
One or Two	13.0	3.3	1.5	0.8	1.0	11.2
Three	8.2	3.9	1.9	0.5	1.5	9.8
Four	11.6	5.3	3.0	1.0	1.3	8.7
Five or More	39.8	20.7	10.9	3.7	6.2	4.1
Percentage of Rooms Air-Conditioned						
100%	50.2	25.6	13.0	4.5	8.1	3.1
50% to 99%	11.4	5.0	2.9	0.8	1.2	8.7
25% to 49%	7.0	2.0	1.0	0.4	0.6	14.4
1% to 24%	4.0	0.7	0.3	0.2	0.2	19.9
Large Tree(s) that Shade the Home						
Yes	35.5	17.8	8.9	3.6	5.3	5.4
No	37.2	15.4	8.3	2.4	4.7	6.0
Central Air-Conditioner Age (excludes systems for more than one housing unit)						
Less than 5 Years	13.1	7.0	3.2	1.5	2.3	6.8
5 to 9 Years	14.1	7.3	4.5	1.1	1.7	10.5
10 to 19 Years	12.8	6.9	3.7	1.0	2.3	8.0
20 Years or More	3.9	1.5	0.8	0.3	0.4	16.9
Don't Know	2.7	1.7	0.9	Q	0.5	21.0
Central Air-Conditioning Use						
Only a Few Times	12.6	3.6	2.2	0.6	0.7	15.0
Quite a Bit	10.5	4.4	2.7	0.9	0.8	7.4
All Summer	24.4	17.0	8.4	2.7	5.8	5.1
Pays for Electricity for Central Air-Conditioning						
Yes	46.2	24.2	13.0	4.1	7.1	3.5
No	1.1	0.6	0.3	Q	Q	37.0

See footnotes at end of table.

**Table HC4-11a. Air Conditioning by South Census Region,
Million U.S. Households, 1997 (Continued)**

Air Conditioning Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.6	0.8	1.1	1.5	1.3	
Age of Most-Used Room Air Conditioner						
Less than 5 Years	8.7	3.1	1.4	0.6	1.1	10.8
5 to 9 Years	6.9	2.3	1.0	0.5	0.8	12.1
10 or 19 Years	5.7	1.9	0.9	0.5	0.5	10.5
20 or More Years	2.0	0.5	0.2	0.1	Q	13.0
Don't Know	1.9	0.5	0.3	Q	Q	21.4
Pays for Electricity for Room Air-Conditioning						
Yes	23.4	7.9	3.6	1.7	2.5	7.2
No	1.7	0.4	Q	0.1	Q	31.1
Room Air-Conditioning Use						
Only a Few Times	13.2	2.8	1.3	0.8	0.7	10.8
Quite a Bit	6.5	2.2	1.1	0.3	0.8	11.3
All Summer	5.5	3.3	1.5	0.7	1.2	11.4

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC4-12a. Air Conditioning by West Census Region,
Million U.S. Households, 1997**

Air Conditioning Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.4	1.2	1.5	1.6	
Households With Electric Air-Conditioning Equipment					
Households With Electric Air-Conditioning Equipment	73.6	8.9	3.0	5.9	6.9
Central Equipment Not Used	0.3	0.2	Q	Q	38.5
Room Air Conditioners Not Used	0.7	Q	Q	Q	46.6
Households Using Electric Air-Conditioning¹					
Households Using Electric Air-Conditioning ¹	72.6	8.7	2.9	5.7	6.9
Type of Electric Air-Conditioning Used					
Central Air-Conditioning ²	47.5	5.9	2.1	3.8	7.9
Without a Heat Pump	36.9	4.7	1.6	3.1	10.6
With a Heat Pump	10.6	1.1	0.5	0.7	13.1
Room Air-Conditioning	25.2	2.8	0.8	1.9	11.3
1 Unit	14.9	2.3	0.6	1.6	12.7
2 Units	7.2	0.4	0.2	0.3	15.4
3 or More Units	3.0	Q	Q	Q	30.0
Number of Rooms Air-Conditioned in Summer 1997					
One or Two	13.0	1.8	0.6	1.2	11.6
Three	8.2	1.2	0.4	0.8	13.5
Four	11.6	1.3	0.5	0.8	13.0
Five or More	39.8	4.3	1.5	2.9	11.3
Percentage of Rooms Air-Conditioned					
100%	50.2	6.2	2.1	4.1	8.9
50% to 99%	11.4	1.1	0.5	0.6	14.8
25% to 49%	7.0	0.9	0.2	0.7	18.1
1% to 24%	4.0	0.5	0.1	0.3	19.8
Large Tree(s) that Shade the Home					
Yes	35.5	3.3	1.2	2.1	9.1
No	37.2	5.4	1.8	3.6	8.6
Central Air-Conditioner Age (excludes systems for more than one housing unit)					
Less than 5 Years	13.1	1.3	0.7	0.7	14.3
5 to 9 Years	14.1	1.8	0.5	1.3	14.5
10 to 19 Years	12.8	1.6	0.5	1.1	9.7
20 Years or More	3.9	0.7	0.2	0.5	22.6
Don't Know	2.7	0.2	Q	Q	28.1
Central Air-Conditioning Use					
Only a Few Times	12.6	2.5	0.6	1.9	13.6
Quite a Bit	10.5	1.5	0.5	1.0	14.3
All Summer	24.4	1.9	1.0	0.9	9.6
Pays for Electricity for Central Air-Conditioning					
Yes	46.2	5.6	2.0	3.6	8.4
No	1.1	0.3	Q	Q	37.6

See footnotes at end of table.

**Table HC4-12a. Air Conditioning by West Census Region,
Million U.S. Households, 1997 (Continued)**

Air Conditioning Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.4	1.2	1.5	1.6	
Age of Most-Used Room Air Conditioner					
Less than 5 Years	8.7	1.1	0.3	0.8	13.9
5 to 9 Years	6.9	0.5	Q	0.4	20.4
10 or 19 Years	5.7	0.6	0.2	0.4	16.4
20 or More Years	2.0	0.4	Q	0.2	21.0
Don't Know	1.9	0.3	Q	Q	30.4
Pays for Electricity for Room Air-Conditioning					
Yes	23.4	2.5	0.8	1.7	11.4
No	1.7	0.2	Q	Q	40.3
Room Air-Conditioning Use					
Only a Few Times	13.2	1.7	0.5	1.2	12.1
Quite a Bit	6.5	0.6	0.2	0.4	18.2
All Summer	5.5	0.4	0.1	0.3	17.9

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

1997 Housing Characteristics Tables

Air Conditioning Tables

(Percent of U.S. Households; 24 pages, 81 kb)

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These data are from the 1997 Residential Energy Consumption Survey (RECS) which provides information on the use of energy in residential housing units in the United States. The RECS is a national statistical survey that collects data for occupied primary housing units. RECS was first conducted in 1978; the sixth and most recent survey was conducted in 1997 RECS. The data were collected from a sample of 5,900 housing units statistically selected to represent the 101.5 million units in the United States. The 1997 data are available for the four Census regions, the nine Census divisions, and for the four most populous States--California, Florida, New York, and Texas.

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

**Table HC4-1b. Air Conditioning by Climate Zone,
Percent of U.S. Households, 1997**

Air Conditioning Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.9	1.0	0.9	1.2	0.9	
Total Households With							
Air-Conditioning	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Central Equipment Not Used	0.5	Q	Q	Q	Q	Q	39.8
Room Air Conditioners Not Used ..	1.0	Q	2.0	Q	Q	Q	29.2
Households Using Electric Air-Conditioning²	98.7	98.6	98.0	99.1	98.7	99.1	NE
Type of Electric Air-Conditioning Used							
Central Air-Conditioning ³	64.5	54.8	56.6	58.2	69.0	77.5	4.0
Without a Heat Pump	50.2	52.1	52.8	42.0	47.1	56.3	6.7
With a Heat Pump	14.4	2.6	3.8	16.2	21.9	21.3	18.3
Room Air-Conditioning	34.2	43.8	41.4	41.0	29.7	21.6	7.2
1 Unit	20.2	33.1	26.7	20.6	20.6	10.2	8.7
2 Units	9.8	9.5	10.6	14.2	7.0	7.0	12.4
3 or More Units	4.1	Q	4.1	6.1	2.0	4.4	19.7
Number of Rooms Air-Conditioned in Summer 1997							
One or Two	17.7	20.3	25.0	20.3	14.0	10.1	9.8
Three	11.2	10.1	10.5	10.2	11.5	12.7	11.1
Four	15.7	14.0	14.9	17.8	15.8	15.0	11.2
Five or More	54.2	54.1	47.7	50.9	57.4	61.2	4.9
Percentage of Rooms Air-Conditioned							
100%	68.3	58.2	59.2	64.3	74.8	79.2	3.2
50% to 99%	15.5	21.4	16.4	17.6	12.1	13.4	9.4
25% to 49%	9.5	12.3	12.2	11.6	9.0	4.5	13.2
1% to 24%	5.4	6.6	10.2	5.6	2.8	2.1	16.4
Large Tree(s) that Shade the Home							
Yes	48.2	50.5	44.3	45.0	50.7	52.6	5.4
No	50.5	48.1	53.7	54.1	47.9	46.5	5.3
Central Air-Conditioner Age (excludes systems for more than one housing unit)							
Less than 5 Years	17.8	14.8	16.4	16.6	19.4	20.2	8.8
5 to 9 Years	19.2	19.2	16.3	16.0	22.3	22.8	11.8
10 to 19 Years	17.4	14.6	13.4	16.3	18.7	21.9	10.6
20 Years or More	5.4	3.3	6.1	5.7	5.2	5.0	17.6
Don't Know	3.7	Q	3.7	2.6	3.2	5.7	24.8
Central Air-Conditioning Use							
Only a Few Times	17.1	27.3	23.5	14.9	16.6	10.6	11.8
Quite a Bit	14.2	19.4	15.2	14.9	13.9	11.6	9.7
All Summer	33.2	8.1	17.9	28.4	38.5	55.3	8.1
Pays for Electricity for Central Air-Conditioning							
Yes	62.8	53.4	55.9	56.3	67.7	74.7	4.1
No	1.5	Q	Q	1.6	Q	2.4	39.8

See footnotes at end of table.

**Table HC4-1b. Air Conditioning by Climate Zone,
Percent of U.S. Households, 1997 (Continued)**

Air Conditioning Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.9	1.0	0.9	1.2	0.9	
Age of Most-Used Room Air Conditioner							
Less than 5 Years	11.9	12.5	13.1	13.7	11.9	8.8	11.0
5 to 9 Years	9.3	11.2	12.7	10.8	7.1	5.7	12.1
10 or 19 Years	7.7	12.1	8.6	9.2	6.6	5.0	12.7
20 or More Years	2.7	5.2	3.5	3.6	2.5	Q	17.2
Don't Know	2.6	2.8	3.5	3.6	1.4	1.5	22.5
Pays for Electricity for Room Air-Conditioning							
Yes	31.8	39.9	39.1	38.3	27.0	20.1	7.5
No	2.4	Q	2.4	2.6	2.7	1.5	34.2
Room Air-Conditioning Use							
Only a Few Times	17.9	28.7	25.2	21.8	13.6	7.4	9.6
Quite a Bit	8.8	12.3	10.3	11.2	7.6	5.1	11.2
All Summer	7.5	Q	5.9	8.0	8.5	9.1	12.9

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

² The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

³ Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC4-2b. Air Conditioning by Year of Construction,
Percent of U.S. Households, 1997**

Air Conditioning Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.7	1.2	1.0	1.1	1.1	0.9	
Households With Electric Air-Conditioning Equipment								
Air-Conditioning Equipment	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Central Equipment Not Used	0.5	Q	Q	Q	Q	Q	Q	38.3
Room Air Conditioners Not Used ..	1.0	Q	Q	Q	Q	Q	2.1	28.7
Households Using Electric Air-Conditioning²								
Air-Conditioning ²	98.7	99.7	99.0	99.3	98.0	99.6	97.6	NE
Type of Electric Air-Conditioning Used								
Central Air-Conditioning ³	64.5	90.1	87.0	72.8	64.1	51.4	31.3	3.2
Without a Heat Pump	50.2	66.7	60.6	55.2	54.3	43.0	29.2	5.2
With a Heat Pump	14.4	23.4	26.5	17.6	9.8	8.5	2.1	14.6
Room Air-Conditioning	34.2	9.6	11.9	26.4	33.9	48.1	66.2	7.0
1 Unit	20.2	7.3	9.3	17.6	20.0	25.1	36.5	9.7
2 Units	9.8	Q	1.9	6.1	9.2	16.8	21.0	12.6
3 or More Units	4.1	Q	Q	2.8	4.7	6.2	8.8	19.1
Number of Rooms Air-Conditioned in Summer 1997								
One or Two	17.7	7.2	8.8	13.9	17.1	20.2	33.4	10.1
Three	11.2	4.1	9.3	14.6	12.7	10.0	13.1	12.5
Four	15.7	16.0	17.8	15.1	14.8	13.5	16.1	10.2
Five or More	54.2	72.4	63.1	55.7	53.5	55.9	35.0	4.2
Percentage of Rooms Air-Conditioned								
100%	68.3	89.9	82.9	75.5	70.2	62.4	39.8	2.7
50% to 99%	15.5	4.3	10.8	13.8	14.8	19.1	25.4	10.3
25% to 49%	9.5	3.0	3.9	7.3	8.1	11.7	19.4	13.9
1% to 24%	5.4	2.5	1.3	2.7	5.0	6.4	12.9	16.9
Large Tree(s) that Shade the Home								
Yes	48.2	26.2	45.1	49.9	54.5	54.1	53.6	5.2
No	50.5	73.5	53.9	49.3	43.5	45.5	44.0	4.7
Central Air-Conditioner Age (excludes systems for more than one housing unit)								
Less than 5 Years	17.8	56.4	10.1	15.9	15.7	14.8	10.1	8.7
5 to 9 Years	19.2	31.6	33.7	15.8	14.9	12.7	8.9	10.1
10 to 19 Years	17.4	Q	37.4	21.6	14.5	14.4	7.5	9.9
20 Years or More	5.4	Q	Q	10.0	12.7	6.3	2.7	15.7
Don't Know	3.7	Q	4.1	8.0	3.4	2.6	1.6	22.6
Central Air-Conditioning Use								
Only a Few Times	17.1	18.8	21.4	18.9	17.8	17.9	9.9	10.4
Quite a Bit	14.2	21.2	18.0	16.3	12.4	10.6	8.6	10.1
All Summer	33.2	50.0	47.6	37.6	34.0	22.9	12.7	6.7
Pays for Electricity for Central Air-Conditioning								
Yes	62.8	88.7	84.6	70.9	60.5	51.0	30.8	3.4
No	1.5	Q	2.3	1.8	2.9	Q	Q	37.1

See footnotes at end of table.

**Table HC4-2b. Air Conditioning by Year of Construction,
Percent of U.S. Households, 1997 (Continued)**

Air Conditioning Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.7	1.2	1.0	1.1	1.1	0.9	
Age of Most-Used Room Air Conditioner								
Less than 5 Years	11.9	6.0	4.5	8.3	10.3	16.8	22.9	10.9
5 to 9 Years	9.3	3.0	2.5	6.6	9.3	11.2	20.1	13.7
10 or 19 Years	7.7	Q	3.7	5.9	6.8	12.1	15.0	12.9
20 or More Years	2.7	Q	Q	2.9	4.6	4.1	4.4	20.2
Don't Know	2.6	Q	Q	2.7	2.9	3.9	3.9	22.6
Pays for Electricity for Room Air-Conditioning								
Yes	31.8	9.4	9.7	23.4	32.8	46.0	62.3	7.3
No	2.4	Q	2.2	3.0	Q	2.1	3.9	30.4
Room Air-Conditioning Use								
Only a Few Times	17.9	3.9	7.2	12.8	17.0	24.2	36.4	10.4
Quite a Bit	8.8	2.5	2.4	6.3	9.3	12.8	17.4	13.1
All Summer	7.5	3.2	2.3	7.3	7.5	11.1	12.4	14.8

¹ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

² The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

³ Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC4-3b. Air Conditioning by Household Income,
Percent of U.S. Households, 1997**

Air Conditioning Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.4	1.0	0.9	1.0	1.4	0.9	
Households With Electric Air-Conditioning Equipment								
Air-Conditioning Equipment	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Central Equipment Not Used	0.5	Q	Q	Q	Q	Q	Q	31.9
Room Air Conditioners Not Used ..	1.0	Q	1.1	0.9	1.0	Q	1.4	29.7
Households Using Electric Air-Conditioning²								
Air-Conditioning ²	98.7	99.0	98.4	98.6	99.1	98.4	98.1	NE
Type of Electric Air-Conditioning Used								
Central Air-Conditioning ³	64.5	44.7	55.6	66.6	77.3	43.3	49.3	3.4
Without a Heat Pump	50.2	34.0	42.8	53.2	59.3	33.3	37.6	5.1
With a Heat Pump	14.4	10.7	12.7	13.5	18.1	10.0	11.7	12.2
Room Air-Conditioning	34.2	54.3	42.8	31.9	21.8	55.0	48.8	4.8
1 Unit	20.2	40.1	27.9	17.0	9.7	39.9	32.4	5.9
2 Units	9.8	12.3	10.8	11.2	6.6	13.2	12.7	10.2
3 or More Units	4.1	Q	4.1	3.7	5.5	2.0	3.8	18.4
Number of Rooms Air-Conditioned in Summer 1997								
One or Two	17.7	34.1	22.2	14.1	11.6	32.4	25.9	6.8
Three	11.2	20.1	14.4	11.3	4.9	17.6	15.9	8.4
Four	15.7	18.1	19.7	17.9	9.1	18.0	18.7	8.1
Five or More	54.2	26.7	42.1	55.2	73.5	30.4	37.5	4.1
Percentage of Rooms Air-Conditioned								
100%	68.3	59.6	64.8	69.6	73.2	56.0	61.8	2.6
50% to 99%	15.5	18.7	16.8	15.5	13.3	21.1	17.9	7.6
25% to 49%	9.5	15.9	11.0	8.2	7.2	14.5	12.6	10.5
1% to 24%	5.4	4.8	5.8	5.4	5.4	6.7	5.8	12.7
Large Tree(s) that Shade the Home								
Yes	48.2	37.6	46.3	50.4	51.4	38.6	41.0	4.9
No	50.5	61.4	52.1	48.1	47.7	59.8	57.1	4.1
Central Air-Conditioner Age (excludes systems for more than one housing unit)								
Less than 5 Years	17.8	11.9	14.4	19.0	21.8	11.7	13.4	8.1
5 to 9 Years	19.2	9.5	15.8	18.2	26.6	11.0	12.5	10.1
10 to 19 Years	17.4	12.7	14.7	18.1	20.6	10.3	12.7	8.9
20 Years or More	5.4	3.9	5.4	5.9	5.3	3.4	4.7	16.3
Don't Know	3.7	4.3	3.4	4.8	2.5	5.0	3.9	19.4
Central Air-Conditioning Use								
Only a Few Times	17.1	14.5	14.5	18.8	18.5	12.9	14.1	9.1
Quite a Bit	14.2	9.4	10.5	14.7	18.8	9.2	10.0	9.4
All Summer	33.2	20.8	30.5	33.1	40.0	21.3	25.2	6.3
Pays for Electricity for Central Air-Conditioning								
Yes	62.8	41.4	52.9	65.5	76.5	40.7	46.1	3.6
No	1.5	2.5	2.3	1.1	Q	Q	2.5	31.0

See footnotes at end of table.

Table HC4-3b. Air Conditioning by Household Income, Percent of U.S. Households, 1997 (Continued)

Air Conditioning Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.4	1.0	0.9	1.0	1.4	0.9	
Age of Most-Used Room Air Conditioner								
Less than 5 Years	11.9	21.1	13.0	12.0	7.4	20.5	17.0	8.7
5 to 9 Years	9.3	12.5	11.2	8.8	7.0	13.1	12.4	10.1
10 or 19 Years	7.7	11.0	11.7	6.2	4.7	12.4	11.1	9.6
20 or More Years	2.7	4.0	3.7	2.8	1.3	3.6	3.9	16.0
Don't Know	2.6	5.7	3.2	2.2	1.4	5.4	4.5	17.5
Pays for Electricity for Room Air-Conditioning								
Yes	31.8	44.9	40.0	30.6	21.3	46.8	44.0	5.4
No	2.4	9.3	2.9	1.3	Q	8.3	4.8	21.9
Room Air-Conditioning Use								
Only a Few Times	17.9	28.4	23.8	16.4	10.6	28.2	25.9	6.7
Quite a Bit	8.8	11.5	9.0	10.3	6.0	11.9	10.3	10.8
All Summer	7.5	14.4	9.9	5.2	5.2	14.9	12.6	10.3

¹ Below 150 percent of poverty line or 60 percent of median State income.

² The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

³ Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC4-4b. Air Conditioning by Type of Housing Unit,
Percent of U.S. Households, 1997**

Air Conditioning Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.6	1.8	1.3	1.5	
Households With Electric Air-Conditioning Equipment						
Households With Electric Air-Conditioning Equipment	100.0	100.0	100.0	100.0	100.0	0.0
Central Equipment Not Used	0.5	0.4	Q	Q	Q	46.5
Room Air Conditioners Not Used ..	1.0	0.9	Q	Q	Q	35.8
Households Using Electric Air-Conditioning¹						
Households Using Electric Air-Conditioning ¹	98.7	99.0	97.3	97.9	99.1	NE
Type of Electric Air-Conditioning Used						
Central Air-Conditioning ²	64.5	67.6	45.4	58.1	57.8	4.4
Without a Heat Pump	50.2	52.1	40.0	45.8	45.3	6.4
With a Heat Pump	14.4	15.5	Q	12.3	12.6	16.2
Room Air-Conditioning	34.2	31.3	51.9	39.8	41.3	6.5
1 Unit	20.2	16.1	39.6	30.8	29.3	8.1
2 Units	9.8	10.3	11.6	7.4	9.4	13.2
3 or More Units	4.1	5.0	Q	Q	Q	19.8
Number of Rooms Air-Conditioned in Summer 1997						
One or Two	17.7	13.3	34.1	33.4	18.9	8.3
Three	11.2	7.6	23.9	25.1	9.4	10.6
Four	15.7	11.0	21.9	30.2	32.3	8.8
Five or More	54.2	67.0	17.4	9.2	38.5	5.9
Percentage of Rooms Air-Conditioned						
100%	68.3	68.0	57.6	72.4	70.4	3.4
50% to 99%	15.5	16.7	13.4	9.8	16.5	10.2
25% to 49%	9.5	8.1	19.4	13.6	8.6	12.7
1% to 24%	5.4	6.2	6.9	2.0	Q	15.1
Large Tree(s) that Shade the Home						
Yes	48.2	54.4	27.3	27.3	42.1	6.9
No	50.5	44.6	70.0	70.6	57.0	4.6
Central Air-Conditioner Age (excludes systems for more than one housing unit)						
Less than 5 Years	17.8	19.8	7.5	8.2	26.6	10.8
5 to 9 Years	19.2	20.8	9.8	16.1	13.8	13.2
10 to 19 Years	17.4	19.3	10.9	12.4	11.7	11.5
20 Years or More	5.4	5.4	Q	6.5	3.8	18.3
Don't Know	3.7	2.1	12.8	9.4	Q	18.8
Central Air-Conditioning Use						
Only a Few Times	17.1	17.7	12.4	17.6	12.4	11.6
Quite a Bit	14.2	14.6	17.4	11.9	13.0	10.7
All Summer	33.2	35.3	15.7	28.7	32.4	7.9
Pays for Electricity for Central Air-Conditioning						
Yes	62.8	67.2	42.0	51.8	54.1	4.7
No	1.5	0.5	Q	4.9	Q	34.4

See footnotes at end of table.

**Table HC4-4b. Air Conditioning by Type of Housing Unit,
Percent of U.S. Households, 1997 (Continued)**

Air Conditioning Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.6	1.8	1.3	1.5	
Age of Most-Used Room Air Conditioner						
Less than 5 Years	11.9	10.9	20.1	12.1	16.5	10.1
5 to 9 Years	9.3	8.9	16.7	9.1	9.6	12.4
10 or 19 Years	7.7	7.8	6.9	7.0	8.5	13.4
20 or More Years	2.7	2.2	Q	4.9	Q	19.7
Don't Know	2.6	1.5	Q	6.7	4.1	20.1
Pays for Electricity for Room Air-Conditioning						
Yes	31.8	30.8	45.5	29.7	39.3	7.0
No	2.4	0.6	6.4	10.1	Q	27.4
Room Air-Conditioning Use						
Only a Few Times	17.9	16.1	32.5	22.0	18.4	9.2
Quite a Bit	8.8	8.3	12.7	9.8	9.7	11.4
All Summer	7.5	7.0	6.7	8.0	13.2	13.0

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC4-5b. Air Conditioning by Type of Owner-Occupied Housing Unit,
Percent of U.S. Households, 1997**

Air Conditioning Characteristics	Total Owner-Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.6	0.6	1.7	1.3	1.4	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Central Equipment Not Used	0.5	0.4	Q	Q	Q	45.0
Room Air Conditioners Not Used ..	0.9	0.9	Q	Q	Q	37.8
Households Using Electric Air-Conditioning¹	98.8	99.0	97.3	97.9	99.1	NE
Type of Electric Air-Conditioning Used						
Central Air-Conditioning ²	68.8	67.6	45.4	58.1	57.8	4.5
Without a Heat Pump	53.7	52.1	40.0	45.8	45.3	6.5
With a Heat Pump	15.1	15.5	Q	12.3	12.6	16.6
Room Air-Conditioning	30.0	31.3	51.9	39.8	41.3	6.9
1 Unit	14.8	16.1	39.6	30.8	29.3	8.7
2 Units	9.9	10.3	11.6	7.4	9.4	13.5
3 or More Units	5.2	5.0	Q	Q	Q	18.8
Number of Rooms Air-Conditioned in Summer 1997						
One or Two	11.8	13.3	34.1	33.4	18.9	9.1
Three	7.4	7.6	23.9	25.1	9.4	11.5
Four	12.6	11.0	21.9	30.2	32.3	9.0
Five or More	67.1	67.0	17.4	9.2	38.5	5.6
Percentage of Rooms Air-Conditioned						
100%	69.7	68.0	57.6	72.4	70.4	3.5
50% to 99%	16.4	16.7	13.4	9.8	16.5	10.4
25% to 49%	7.2	8.1	19.4	13.6	8.6	13.5
1% to 24%	5.5	6.2	6.9	2.0	Q	15.8
Large Tree(s) that Shade the Home						
Yes	54.0	54.4	27.3	27.3	42.1	6.8
No	44.8	44.6	70.0	70.6	57.0	4.8
Central Air-Conditioner Age (excludes systems for more than one housing unit)						
Less than 5 Years	21.2	19.8	7.5	8.2	26.6	11.0
5 to 9 Years	21.1	20.8	9.8	16.1	13.8	13.1
10 to 19 Years	19.5	19.3	10.9	12.4	11.7	11.9
20 Years or More	5.3	5.4	Q	6.5	3.8	18.4
Don't Know	1.4	2.1	12.8	9.4	Q	19.8
Central Air-Conditioning Use						
Only a Few Times	17.7	17.7	12.4	17.6	12.4	11.9
Quite a Bit	15.1	14.6	17.4	11.9	13.0	11.2
All Summer	36.0	35.3	15.7	28.7	32.4	8.1
Pays for Electricity for Central Air-Conditioning						
Yes	68.2	67.2	42.0	51.8	54.1	4.8
No	0.6	0.5	Q	4.9	Q	39.5

See footnotes at end of table.

Table HC4-5b. Air Conditioning by Type of Owner-Occupied Housing Unit, Percent of U.S. Households, 1997 (Continued)

Air Conditioning Characteristics	Total Owner-Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.6	0.6	1.7	1.3	1.4	
Age of Most-Used Room Air Conditioner						
Less than 5 Years	10.1	10.9	20.1	12.1	16.5	10.6
5 to 9 Years	8.7	8.9	16.7	9.1	9.6	12.8
10 or 19 Years	7.6	7.8	6.9	7.0	8.5	14.2
20 or More Years	2.6	2.2	Q	4.9	Q	20.7
Don't Know	1.0	1.5	Q	6.7	4.1	24.4
Pays for Electricity for Room Air-Conditioning						
Yes	29.8	30.8	45.5	29.7	39.3	7.3
No	Q	0.6	6.4	10.1	Q	NF
Room Air-Conditioning Use						
Only a Few Times	15.6	16.1	32.5	22.0	18.4	9.9
Quite a Bit	7.7	8.3	12.7	9.8	9.7	11.6
All Summer	6.6	7.0	6.7	8.0	13.2	14.0

¹ The number of households where the end use is electric air-conditioning excludes households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those latter households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC4-6b. Air Conditioning by Type of Rented Housing Unit,
Percent of U.S. Households, 1997**

Air Conditioning Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.7	0.5	1.6	1.2	1.3	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Central Equipment Not Used	Q	0.4	Q	Q	Q	NF
Room Air Conditioners Not Used ..	1.0	0.9	Q	Q	Q	50.6
Households Using Electric Air-Conditioning¹	98.5	99.0	97.3	97.9	99.1	NE
Type of Electric Air-Conditioning Used						
Central Air-Conditioning ²	53.8	67.6	45.4	58.1	57.8	5.3
Without a Heat Pump	41.2	52.1	40.0	45.8	45.3	7.3
With a Heat Pump	12.6	15.5	Q	12.3	12.6	17.0
Room Air-Conditioning	44.8	31.3	51.9	39.8	41.3	7.0
1 Unit	33.6	16.1	39.6	30.8	29.3	8.5
2 Units	9.6	10.3	11.6	7.4	9.4	14.8
3 or More Units	1.5	5.0	Q	Q	Q	23.4
Number of Rooms Air-Conditioned in Summer 1997						
One or Two	32.4	13.3	34.1	33.4	18.9	8.7
Three	20.6	7.6	23.9	25.1	9.4	11.3
Four	23.5	11.0	21.9	30.2	32.3	9.6
Five or More	21.9	67.0	17.4	9.2	38.5	7.2
Percentage of Rooms Air-Conditioned						
100%	64.8	68.0	57.6	72.4	70.4	3.9
50% to 99%	13.3	16.7	13.4	9.8	16.5	11.4
25% to 49%	15.2	8.1	19.4	13.6	8.6	13.6
1% to 24%	5.3	6.2	6.9	2.0	Q	16.3
Large Tree(s) that Shade the Home						
Yes	33.9	54.4	27.3	27.3	42.1	8.1
No	64.7	44.6	70.0	70.6	57.0	4.9
Central Air-Conditioner Age (excludes systems for more than one housing unit)						
Less than 5 Years	9.4	19.8	7.5	8.2	26.6	13.5
5 to 9 Years	14.4	20.8	9.8	16.1	13.8	16.1
10 to 19 Years	12.1	19.3	10.9	12.4	11.7	13.3
20 Years or More	5.5	5.4	Q	6.5	3.8	20.2
Don't Know	9.4	2.1	12.8	9.4	Q	19.1
Central Air-Conditioning Use						
Only a Few Times	15.6	17.7	12.4	17.6	12.4	13.6
Quite a Bit	12.1	14.6	17.4	11.9	13.0	12.5
All Summer	26.1	35.3	15.7	28.7	32.4	8.9
Pays for Electricity for Central Air-Conditioning						
Yes	49.5	67.2	42.0	51.8	54.1	5.7
No	3.6	0.5	Q	4.9	Q	33.8

See footnotes at end of table.

Table HC4-6b. Air Conditioning by Type of Rented Housing Unit, Percent of U.S. Households, 1997 (Continued)

Air Conditioning Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.7	0.5	1.6	1.2	1.3	
Age of Most-Used Room Air Conditioner						
Less than 5 Years	16.1	10.9	20.1	12.1	16.5	10.7
5 to 9 Years	10.9	8.9	16.7	9.1	9.6	13.3
10 or 19 Years	8.0	7.8	6.9	7.0	8.5	14.8
20 or More Years	3.2	2.2	Q	4.9	Q	23.0
Don't Know	6.6	1.5	Q	6.7	4.1	20.2
Pays for Electricity for Room Air-Conditioning						
Yes	37.0	30.8	45.5	29.7	39.3	7.6
No	7.8	0.6	6.4	10.1	Q	26.7
Room Air-Conditioning Use						
Only a Few Times	23.8	16.1	32.5	22.0	18.4	9.5
Quite a Bit	11.4	8.3	12.7	9.8	9.7	12.9
All Summer	9.6	7.0	6.7	8.0	13.2	13.8

¹ The number of households where the end use is electric air-conditioning excludes households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those latter households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC4-7b. Air Conditioning by Four Most Populated States,
Percent of U.S. Households, 1997**

Air Conditioning Characteristics	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.3	1.4	1.2	1.2	
Households With Electric Air-Conditioning Equipment						
Households With Electric Air-Conditioning Equipment	100.0	100.0	100.0	100.0	100.0	0.0
Central Equipment Not Used	0.5	Q	2.9	0.6	1.2	28.9
Room Air Conditioners Not Used	1.0	Q	Q	Q	1.2	40.5
Households Using Electric Air-Conditioning¹						
Households Using Electric Air-Conditioning ¹	98.7	99.4	96.4	99.4	98.3	NE
Type of Electric Air-Conditioning Used						
Central Air-Conditioning ²	64.5	29.5	67.0	74.8	85.5	4.7
Without a Heat Pump	50.2	27.4	60.0	64.1	43.7	8.6
With a Heat Pump	14.4	2.1	7.0	10.7	41.8	21.2
Room Air-Conditioning	34.2	69.9	29.4	24.7	12.8	9.0
1 Unit	20.2	36.4	26.8	10.5	8.2	11.4
2 Units	9.8	22.6	2.3	8.3	2.6	16.8
3 or More Units	4.1	10.9	Q	5.8	2.0	26.8
Number of Rooms Air-Conditioned in Summer 1997						
One or Two	17.7	45.5	20.4	12.4	5.4	14.0
Three	11.2	8.7	14.0	17.2	5.8	12.8
Four	15.7	20.8	14.9	11.7	15.7	18.8
Five or More	54.2	24.4	47.1	58.0	71.4	8.7
Percentage of Rooms Air-Conditioned						
100%	68.3	43.9	70.6	78.7	84.3	4.0
50% to 99%	15.5	18.5	10.3	13.3	11.2	16.8
25% to 49%	9.5	20.4	10.6	6.1	Q	18.2
1% to 24%	5.4	16.6	4.8	1.3	Q	17.5
Large Tree(s) that Shade the Home						
Yes	48.2	35.9	35.6	49.4	56.8	7.0
No	50.5	63.4	60.7	50.1	41.5	6.0
Central Air-Conditioner Age (excludes systems for more than one housing unit)						
Less than 5 Years	17.8	12.8	11.9	25.2	16.9	9.7
5 to 9 Years	19.2	10.3	24.0	17.9	30.8	15.8
10 to 19 Years	17.4	3.3	19.1	20.0	25.9	13.7
20 Years or More	5.4	Q	9.8	3.4	5.4	15.6
Don't Know	3.7	Q	1.5	5.1	5.9	29.0
Central Air-Conditioning Use						
Only a Few Times	17.1	10.6	35.2	8.2	11.5	14.4
Quite a Bit	14.2	10.2	17.4	9.7	11.6	12.8
All Summer	33.2	8.6	14.3	56.9	62.4	7.4
Pays for Electricity for Central Air-Conditioning						
Yes	62.8	27.8	63.5	70.6	84.3	4.9
No	1.5	Q	Q	Q	1.2	41.7

See footnotes at end of table.

**Table HC4-7b. Air Conditioning by Four Most Populated States,
Percent of U.S. Households, 1997 (Continued)**

Air Conditioning Characteristics	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.3	1.4	1.2	1.2	
Age of Most-Used Room Air Conditioner						
Less than 5 Years	11.9	23.3	11.6	11.2	4.6	13.5
5 to 9 Years	9.3	20.2	5.3	8.0	1.9	19.4
10 or 19 Years	7.7	16.8	5.8	3.5	4.0	14.7
20 or More Years	2.7	3.5	3.3	Q	Q	23.1
Don't Know	2.6	6.1	3.4	1.5	2.2	25.6
Pays for Electricity for Room Air-Conditioning						
Yes	31.8	63.4	25.4	23.1	11.2	10.7
No	2.4	6.5	4.0	1.5	Q	32.1
Room Air-Conditioning Use						
Only a Few Times	17.9	43.2	20.2	7.6	5.0	12.0
Quite a Bit	8.8	17.9	5.1	6.5	2.9	15.2
All Summer	7.5	8.8	4.1	10.6	4.9	20.7

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC4-8b. Air Conditioning by Urban/Rural Location,
Percent of U.S. Households, 1997**

Air Conditioning Characteristics	Urban/Rural Location ¹					RSE Row Factors
	Total	City	Town	Suburbs	Rural	
	0.6	0.8	1.3	1.3	1.3	
Households With Electric Air-Conditioning Equipment						
Households With Electric Air-Conditioning Equipment	100.0	100.0	100.0	100.0	100.0	0.0
Central Equipment Not Used	0.5	0.8	Q	Q	Q	28.5
Room Air Conditioners Not Used	1.0	1.0	0.8	Q	Q	29.8
Households Using Electric Air-Conditioning²						
Households Using Electric Air-Conditioning ²	98.7	98.4	99.0	99.0	99.0	NE
Type of Electric Air-Conditioning Used						
Central Air-Conditioning ³	64.5	60.9	58.6	79.6	62.2	2.9
Without a Heat Pump	50.2	48.7	48.8	61.0	42.0	4.7
With a Heat Pump	14.4	12.2	9.8	18.6	20.3	11.2
Room Air-Conditioning	34.2	37.5	40.4	19.4	36.7	5.6
1 Unit	20.2	23.2	22.5	11.4	20.3	7.6
2 Units	9.8	9.8	13.1	5.6	11.6	10.4
3 or More Units	4.1	4.5	4.7	2.4	4.8	16.0
Number of Rooms Air-Conditioned in Summer 1997						
One or Two	17.7	21.4	19.6	9.2	15.7	8.0
Three	11.2	12.6	12.0	6.3	12.3	10.1
Four	15.7	17.2	15.8	14.7	12.8	8.9
Five or More	54.2	47.2	51.6	68.9	58.2	3.7
Percentage of Rooms Air-Conditioned						
100%	68.3	67.8	65.4	77.2	61.5	2.4
50% to 99%	15.5	14.0	17.2	14.0	20.0	7.8
25% to 49%	9.5	11.5	9.8	3.3	11.3	10.8
1% to 24%	5.4	5.2	6.5	4.4	6.2	12.4
Large Tree(s) that Shade the Home						
Yes	48.2	42.5	48.8	54.7	55.7	4.2
No	50.5	55.9	50.1	44.3	43.3	4.3
Central Air-Conditioner Age (excludes systems for more than one housing unit)						
Less than 5 Years	17.8	15.2	16.4	21.4	22.7	7.3
5 to 9 Years	19.2	18.9	17.2	22.2	18.2	8.6
10 to 19 Years	17.4	14.8	17.1	25.0	15.4	8.3
20 Years or More	5.4	5.1	5.8	6.4	4.3	14.5
Don't Know	3.7	5.2	1.5	4.0	1.4	20.5
Central Air-Conditioning Use						
Only a Few Times	17.1	16.4	16.9	20.4	15.1	8.8
Quite a Bit	14.2	13.0	11.6	19.4	14.1	8.1
All Summer	33.2	31.5	30.0	39.7	33.0	5.4
Pays for Electricity for Central Air-Conditioning						
Yes	62.8	58.7	57.4	78.3	61.1	3.0
No	1.5	1.9	Q	1.1	1.2	29.9

See footnotes at end of table.

**Table HC4-8b. Air Conditioning by Urban/Rural Location,
Percent of U.S. Households, 1997 (Continued)**

Air Conditioning Characteristics	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
RSE Column Factor:	0.6	0.8	1.3	1.3	1.3	
Age of Most-Used Room Air Conditioner						
Less than 5 Years	11.9	13.5	14.7	5.9	11.4	9.4
5 to 9 Years	9.3	10.3	11.0	5.1	10.0	10.8
10 or 19 Years	7.7	8.0	8.5	5.1	9.4	10.7
20 or More Years	2.7	2.1	4.5	1.9	3.7	18.4
Don't Know	2.6	3.6	1.7	1.4	2.3	18.7
Pays for Electricity for Room Air-Conditioning						
Yes	31.8	34.3	37.9	17.8	36.0	5.9
No	2.4	3.2	2.5	1.7	0.7	29.5
Room Air-Conditioning Use						
Only a Few Times	17.9	20.1	22.2	9.4	17.9	7.9
Quite a Bit	8.8	9.7	9.6	5.5	9.6	9.5
All Summer	7.5	7.8	8.6	4.5	9.2	11.4

¹ Based on the household respondent's description rather than the Federal Government definition.

² The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

³ Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC4-9b. Air Conditioning by Northeast Census Region,
Percent of U.S. Households, 1997**

Air Conditioning Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.4	1.1	1.2	1.8	
Households With Electric Air-Conditioning Equipment					
Households With Electric Air-Conditioning Equipment	100.0	100.0	100.0	100.0	0.0
Central Equipment Not Used	0.5	Q	Q	Q	45.0
Room Air Conditioners Not Used	1.0	2.3	2.0	Q	32.3
Households Using Electric Air-Conditioning¹					
Households Using Electric Air-Conditioning ¹	98.7	97.5	97.9	96.1	1.3
Type of Electric Air-Conditioning Used					
Central Air-Conditioning ²	64.5	35.0	40.0	15.7	10.1
Without a Heat Pump	50.2	31.1	35.7	13.7	12.8
With a Heat Pump	14.4	3.9	4.4	Q	26.9
Room Air-Conditioning	34.2	62.5	57.8	80.4	6.3
1 Unit	20.2	32.0	28.6	45.0	8.0
2 Units	9.8	21.5	20.9	24.0	10.4
3 or More Units	4.1	9.0	8.4	11.4	18.5
Number of Rooms Air-Conditioned in Summer 1997					
One or Two	17.7	37.3	35.2	45.5	8.2
Three	11.2	10.8	10.6	11.9	11.5
Four	15.7	15.2	15.7	13.4	14.6
Five or More	54.2	34.1	36.4	25.4	7.5
Percentage of Rooms Air-Conditioned					
100%	68.3	47.2	49.8	37.1	5.2
50% to 99%	15.5	18.3	18.6	16.8	11.2
25% to 49%	9.5	17.7	16.7	21.9	11.0
1% to 24%	5.4	14.3	12.8	20.3	11.2
Large Tree(s) that Shade the Home					
Yes	48.2	41.5	41.1	42.8	6.9
No	50.5	56.1	56.8	53.3	5.6
Central Air-Conditioner Age (excludes systems for more than one housing unit)					
Less than 5 Years	17.8	10.1	12.1	Q	8.6
5 to 9 Years	19.2	11.1	12.4	5.9	18.4
10 to 19 Years	17.4	9.0	10.6	Q	21.4
20 Years or More	5.4	3.4	3.7	Q	20.7
Don't Know	3.7	Q	Q	Q	28.9
Central Air-Conditioning Use					
Only a Few Times	17.1	15.5	17.0	9.8	13.6
Quite a Bit	14.2	8.6	10.1	Q	18.1
All Summer	33.2	10.9	12.9	Q	8.4
Pays for Electricity for Central Air-Conditioning					
Yes	62.8	34.4	39.2	15.7	10.1
No	1.5	Q	Q	Q	46.0

See footnotes at end of table.

**Table HC4-9b. Air Conditioning by Northeast Census Region,
Percent of U.S. Households, 1997 (Continued)**

Air Conditioning Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.4	1.1	1.2	1.8	
Age of Most-Used Room Air Conditioner					
Less than 5 Years	11.9	20.5	18.5	28.1	10.3
5 to 9 Years	9.3	19.5	17.3	27.9	10.4
10 or 19 Years	7.7	13.5	13.9	12.3	12.7
20 or More Years	2.7	5.0	4.5	6.6	20.9
Don't Know	2.6	4.1	3.7	5.5	19.5
Pays for Electricity for Room Air-Conditioning					
Yes	31.8	57.9	53.4	74.9	6.4
No	2.4	4.6	4.4	5.4	25.4
Room Air-Conditioning Use					
Only a Few Times	17.9	41.8	38.7	53.9	8.0
Quite a Bit	8.8	14.0	13.1	17.4	7.0
All Summer	7.5	6.7	6.1	9.1	14.3

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

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. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC4-10b. Air Conditioning by Midwest Census Region,
Percent of U.S. Households, 1997**

Air Conditioning Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.6	
Households With Electric Air-Conditioning Equipment					
Households With Electric Air-Conditioning Equipment	100.0	100.0	100.0	100.0	0.0
Central Equipment Not Used	0.5	Q	Q	Q	37.5
Room Air Conditioners Not Used	1.0	1.1	Q	Q	27.3
Households Using Electric Air-Conditioning¹					
Households Using Electric Air-Conditioning ¹	98.7	98.9	99.0	98.7	NE
Type of Electric Air-Conditioning Used					
Central Air-Conditioning ²	64.5	65.6	64.4	67.8	3.9
Without a Heat Pump	50.2	63.3	62.0	65.9	4.5
With a Heat Pump	14.4	2.2	2.4	Q	24.0
Room Air-Conditioning	34.2	33.3	34.6	30.9	7.6
1 Unit	20.2	23.2	23.6	22.5	9.2
2 Units	9.8	8.0	8.2	7.7	13.5
3 or More Units	4.1	2.1	2.8	Q	21.5
Number of Rooms Air-Conditioned in Summer 1997					
One or Two	17.7	17.3	18.2	15.6	8.1
Three	11.2	9.4	10.5	7.1	12.0
Four	15.7	16.2	16.1	16.6	8.9
Five or More	54.2	56.0	54.2	59.5	4.1
Percentage of Rooms Air-Conditioned					
100%	68.3	67.0	66.5	68.1	3.1
50% to 99%	15.5	16.2	16.5	15.7	9.4
25% to 49%	9.5	10.1	10.6	9.2	8.3
1% to 24%	5.4	5.5	5.4	5.8	14.0
Large Tree(s) that Shade the Home					
Yes	48.2	49.2	46.9	53.6	4.6
No	50.5	49.7	52.1	45.1	4.6
Central Air-Conditioner Age (excludes systems for more than one housing unit)					
Less than 5 Years	17.8	18.6	18.6	18.7	7.8
5 to 9 Years	19.2	19.0	19.3	18.4	10.0
10 to 19 Years	17.4	16.4	14.3	20.6	10.2
20 Years or More	5.4	6.7	7.0	6.2	18.8
Don't Know	3.7	3.9	4.5	Q	20.2
Central Air-Conditioning Use					
Only a Few Times	17.1	24.6	24.5	24.9	8.1
Quite a Bit	14.2	18.9	20.2	16.3	9.0
All Summer	33.2	22.1	19.8	26.6	9.3
Pays for Electricity for Central Air-Conditioning					
Yes	62.8	64.5	63.4	66.8	3.7
No	1.5	1.0	Q	Q	41.4

See footnotes at end of table.

**Table HC4-10b. Air Conditioning by Midwest Census Region,
Percent of U.S. Households, 1997 (Continued)**

Air Conditioning Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.6	
Age of Most-Used Room Air Conditioner					
Less than 5 Years	11.9	10.4	12.1	6.9	8.9
5 to 9 Years	9.3	8.9	9.8	7.2	13.1
10 or 19 Years	7.7	8.0	7.2	9.5	11.4
20 or More Years	2.7	2.9	2.7	3.3	20.7
Don't Know	2.6	3.1	2.7	4.0	19.6
Pays for Electricity for Room Air-Conditioning					
Yes	31.8	30.8	32.2	28.2	8.3
No	2.4	2.5	2.4	Q	34.5
Room Air-Conditioning Use					
Only a Few Times	17.9	18.4	17.8	19.8	9.2
Quite a Bit	8.8	10.2	11.4	7.8	12.4
All Summer	7.5	4.7	5.4	3.4	13.1

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC4-11b. Air Conditioning by South Census Region,
Percent of U.S. Households, 1997**

Air Conditioning Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.1	1.5	1.4	
Households With Electric Air-Conditioning Equipment						
Households With Electric Air-Conditioning Equipment	100.0	100.0	100.0	100.0	100.0	0.0
Central Equipment Not Used	0.5	Q	Q	Q	Q	35.9
Room Air Conditioners Not Used	1.0	Q	Q	Q	Q	31.8
Households Using Electric Air-Conditioning¹						
Households Using Electric Air-Conditioning ¹	98.7	99.5	99.3	100.0	99.6	NE
Type of Electric Air-Conditioning Used						
Central Air-Conditioning ²	64.5	74.6	76.9	70.2	73.3	2.6
Without a Heat Pump	50.2	49.1	40.8	48.0	64.0	5.9
With a Heat Pump	14.4	25.5	36.1	22.2	9.4	12.3
Room Air-Conditioning	34.2	24.9	22.4	29.8	26.3	6.8
1 Unit	20.2	12.7	13.1	14.5	10.8	8.2
2 Units	9.8	7.9	6.2	9.9	9.6	13.0
3 or More Units	4.1	4.4	3.1	5.3	5.9	20.2
Number of Rooms Air-Conditioned in Summer 1997						
One or Two	17.7	9.9	8.5	12.9	10.3	11.1
Three	11.2	11.7	10.8	9.0	15.0	9.8
Four	15.7	15.9	17.1	16.9	13.1	8.5
Five or More	54.2	62.1	62.9	61.2	61.2	3.8
Percentage of Rooms Air-Conditioned						
100%	68.3	76.6	75.0	75.3	80.2	2.5
50% to 99%	15.5	14.9	16.7	14.2	12.1	8.6
25% to 49%	9.5	5.9	5.8	6.8	5.7	14.5
1% to 24%	5.4	2.1	1.7	3.8	1.6	20.0
Large Tree(s) that Shade the Home						
Yes	48.2	53.4	51.6	59.9	52.5	5.1
No	50.5	46.2	47.8	40.1	47.1	5.9
Central Air-Conditioner Age (excludes systems for more than one housing unit)						
Less than 5 Years	17.8	21.1	18.7	25.5	22.5	6.7
5 to 9 Years	19.2	21.9	26.2	18.0	16.9	10.0
10 to 19 Years	17.4	20.8	21.3	15.9	22.7	8.0
20 Years or More	5.4	4.5	4.6	5.0	4.1	16.6
Don't Know	3.7	5.1	5.4	Q	4.6	21.2
Central Air-Conditioning Use						
Only a Few Times	17.1	10.7	12.7	10.8	7.1	14.9
Quite a Bit	14.2	13.1	15.4	14.6	8.3	7.2
All Summer	33.2	50.8	48.8	44.8	58.0	4.7
Pays for Electricity for Central Air-Conditioning						
Yes	62.8	72.6	75.2	68.6	70.5	2.8
No	1.5	1.7	1.7	Q	Q	37.5

See footnotes at end of table.

**Table HC4-11b. Air Conditioning by South Census Region,
Percent of U.S. Households, 1997 (Continued)**

Air Conditioning Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.1	1.5	1.4	
Age of Most-Used Room Air Conditioner						
Less than 5 Years	11.9	9.3	8.0	10.4	11.0	10.7
5 to 9 Years	9.3	6.9	5.8	7.8	8.2	12.3
10 or 19 Years	7.7	5.8	5.5	7.8	5.1	10.7
20 or More Years	2.7	1.4	1.4	2.4	Q	13.2
Don't Know	2.6	1.5	1.8	Q	Q	21.5
Pays for Electricity for Room Air-Conditioning						
Yes	31.8	23.6	20.9	28.5	25.3	7.3
No	2.4	1.3	Q	1.3	Q	31.4
Room Air-Conditioning Use						
Only a Few Times	17.9	8.3	7.7	12.6	6.8	10.7
Quite a Bit	8.8	6.5	6.2	5.7	7.7	11.8
All Summer	7.5	10.0	8.5	11.4	11.8	11.3

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC4-12b. Air Conditioning by West Census Region,
Percent of U.S. Households, 1997**

Air Conditioning Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.4	1.1	1.4	1.5	
Households With Electric Air-Conditioning Equipment					
Households With Electric Air-Conditioning Equipment	100.0	100.0	100.0	100.0	0.0
Central Equipment Not Used	0.5	1.7	Q	Q	34.9
Room Air Conditioners Not Used	1.0	Q	Q	Q	39.1
Households Using Electric Air-Conditioning¹					
Households Using Electric Air-Conditioning ¹	98.7	97.1	97.8	96.7	NE
Type of Electric Air-Conditioning Used					
Central Air-Conditioning ²	64.5	65.8	69.8	63.8	3.9
Without a Heat Pump	50.2	53.0	53.4	52.8	5.2
With a Heat Pump	14.4	12.9	16.5	11.0	16.1
Room Air-Conditioning	34.2	31.2	27.9	32.9	7.7
1 Unit	20.2	25.7	21.5	27.9	9.2
2 Units	9.8	4.6	5.2	4.3	16.0
3 or More Units	4.1	Q	Q	Q	24.9
Number of Rooms Air-Conditioned in Summer 1997					
One or Two	17.7	20.2	19.9	20.4	10.7
Three	11.2	13.3	13.1	13.5	12.8
Four	15.7	14.8	16.3	14.1	13.0
Five or More	54.2	48.7	48.5	48.8	7.1
Percentage of Rooms Air-Conditioned					
100%	68.3	69.4	69.7	69.3	3.5
50% to 99%	15.5	12.6	15.7	11.0	14.6
25% to 49%	9.5	9.8	7.4	11.0	18.1
1% to 24%	5.4	5.3	5.0	5.4	20.6
Large Tree(s) that Shade the Home					
Yes	48.2	36.5	38.6	35.4	5.0
No	50.5	60.6	59.2	61.3	3.5
Central Air-Conditioner Age (excludes systems for more than one housing unit)					
Less than 5 Years	17.8	15.0	21.7	11.6	11.7
5 to 9 Years	19.2	20.3	16.1	22.5	12.5
10 to 19 Years	17.4	18.3	17.7	18.6	10.6
20 Years or More	5.4	8.4	7.1	9.0	20.6
Don't Know	3.7	2.1	Q	Q	26.1
Central Air-Conditioning Use					
Only a Few Times	17.1	27.6	18.7	32.1	10.6
Quite a Bit	14.2	16.5	17.0	16.3	10.9
All Summer	33.2	21.7	34.1	15.4	8.9
Pays for Electricity for Central Air-Conditioning					
Yes	62.8	62.6	65.7	61.0	4.2
No	1.5	2.8	Q	Q	35.9

See footnotes at end of table.

**Table HC4-12b. Air Conditioning by West Census Region,
Percent of U.S. Households, 1997 (Continued)**

Air Conditioning Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.4	1.1	1.4	1.5	
Age of Most-Used Room Air Conditioner					
Less than 5 Years	11.9	12.4	9.5	13.8	13.6
5 to 9 Years	9.3	5.1	Q	6.4	16.6
10 or 19 Years	7.7	6.3	6.3	6.3	15.0
20 or More Years	2.7	4.0	Q	3.7	21.0
Don't Know	2.6	3.4	Q	Q	26.8
Pays for Electricity for Room Air-Conditioning					
Yes	31.8	28.5	26.5	29.5	8.0
No	2.4	2.8	Q	3.4	35.4
Room Air-Conditioning Use					
Only a Few Times	17.9	19.4	16.0	21.1	10.5
Quite a Bit	8.8	7.1	7.3	6.9	15.7
All Summer	7.5	4.8	4.7	4.8	14.9

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

1997 Housing Characteristics Tables

Appliances Tables

(Million U.S. Households; 48 pages, 138 kb)

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These data are from the 1997 Residential Energy Consumption Survey (RECS) which provides information on the use of energy in residential housing units in the United States. The RECS is a national statistical survey that collects data for occupied primary housing units. RECS was first conducted in 1978; the sixth and most recent survey was conducted in 1997 RECS. The data were collected from a sample of 5,900 housing units statistically selected to represent the 101.5 million units in the United States. The 1997 data are available for the four Census regions, the nine Census divisions, and for the four most populous States--California, Florida, New York, and Texas.

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

**Table HC5-1a. Appliances by Climate Zone,
Million U.S. Households, 1997**

Appliance Types and Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.9	1.1	1.1	1.3	1.0	
Total	101.5	9.3	28.0	22.5	19.5	22.2	7.8
Households With Electric							
Air-Conditioning Equipment	73.6	5.3	18.6	17.8	12.2	19.7	8.3
Central Equipment Not Used	0.3	Q	Q	Q	Q	Q	54.9
Room Air Conditioners Not Used ..	0.7	Q	0.4	Q	Q	Q	30.8
Households Using Electric							
Air-Conditioning²	72.6	5.2	18.2	17.6	12.0	19.6	8.4
Type of Electric Air-Conditioning							
Used							
Central Air-Conditioning ³	47.5	2.9	10.5	10.3	8.4	15.3	10.0
Without a Heat Pump	36.9	2.7	9.8	7.5	5.7	11.1	12.2
With a Heat Pump	10.6	0.1	0.7	2.9	2.7	4.2	18.3
Room Air-Conditioning	25.2	2.3	7.7	7.3	3.6	4.3	11.2
1 Unit	14.9	1.7	5.0	3.7	2.5	2.0	12.2
2 Units	7.2	0.5	2.0	2.5	0.9	1.4	15.7
3 or More Units	3.0	Q	0.8	1.1	0.2	0.9	21.6
Clothes Washer	78.5	7.9	22.0	17.4	14.2	17.1	7.5
Clothes Dryer	72.2	7.6	20.6	15.8	12.9	15.3	7.8
Electric	55.9	5.9	14.3	12.8	10.0	12.9	9.3
Natural Gas	15.4	1.5	6.1	2.8	2.8	2.3	11.7
LPG	0.8	0.2	0.2	0.2	Q	Q	30.5
Dishwasher	50.9	4.4	14.5	11.3	9.1	11.6	7.6
Ceiling Fans	61.0	5.4	15.9	13.0	10.5	16.1	8.3
1	23.6	2.7	7.8	5.4	3.8	3.9	9.8
2	14.0	1.4	3.7	3.1	2.5	3.3	11.4
3 or more	23.4	1.3	4.4	4.5	4.2	8.9	11.0
Freezer	33.7	4.5	9.4	7.1	5.6	7.0	11.3
1	30.7	4.1	8.6	6.7	5.2	6.1	11.4
2 or more	3.0	0.5	0.8	0.5	0.4	0.8	19.5
Most-Used Freezer							
Defrost Method							
Frost-Free	10.7	1.1	2.8	2.3	2.1	2.3	12.5
Manual	23.0	3.4	6.6	4.8	3.5	4.7	12.5
Type of Freezer							
Upright	16.5	1.9	4.6	3.7	2.9	3.5	10.8
Chest	17.1	2.7	4.8	3.5	2.7	3.5	14.8
Age of Freezer							
Less than 2 Years	2.4	0.4	0.8	0.3	0.3	0.7	21.3
2 to 4 Years	4.2	0.4	1.2	0.8	0.9	0.8	20.9
5 to 9 Years	7.5	0.9	1.9	1.5	1.5	1.6	14.7
10 to 19 Years	12.3	1.6	3.3	2.9	2.1	2.6	13.5
20 Years or More	6.7	1.2	2.1	1.4	0.8	1.2	16.9
Don't Know	0.5	Q	Q	0.2	Q	Q	35.9

See footnotes at end of table.

**Table HC5-1a. Appliances by Climate Zone,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.9	1.1	1.1	1.3	1.0	
Freezer Size							
Very Small (Less than 11 cf)	2.7	0.4	0.9	0.6	0.3	0.6	19.8
Small (11-14 cf)	6.7	1.1	1.8	1.5	1.1	1.2	15.2
Medium (15-18 cf)	13.5	1.8	3.4	3.0	2.3	3.1	14.5
Large (19-22 cf)	9.0	1.1	2.7	1.8	1.7	1.8	14.7
Very Large (23 or More cf)	1.7	0.2	0.6	0.3	0.3	0.4	22.0
Heaters (other)							
Hot Tub or Spa	4.0	0.3	1.0	0.8	0.8	1.1	17.5
Electric	2.7	0.2	0.7	0.7	0.5	0.5	19.3
Natural Gas	1.2	Q	0.3	Q	0.3	Q	32.3
LPG/Other	Q	Q	Q	Q	Q	Q	NF
Portable Space	14.1	1.5	3.6	3.7	2.6	2.7	11.3
Electric	12.3	1.4	3.2	3.1	2.2	2.5	12.0
Kerosene	2.1	0.2	0.5	0.7	0.5	0.2	21.5
Swimming Pool	1.1	Q	0.3	Q	0.2	0.5	38.4
Natural Gas	0.7	Q	Q	Q	Q	Q	69.1
Electric/LPG/Other	0.4	Q	Q	Q	Q	Q	76.8
Waterbed Heaters	8.4	1.1	3.2	1.4	1.0	1.7	14.8
1	6.9	0.9	2.8	1.1	0.8	1.3	16.4
2 or More	1.5	0.2	0.5	0.3	Q	0.4	23.0
Waterbed Heaters							
Used All Year	7.4	1.0	2.9	1.2	0.8	1.5	15.3
1	6.4	0.9	2.6	1.0	0.7	1.3	16.9
2 or More	1.0	Q	0.4	0.2	Q	0.2	25.7
Oven	100.3	9.2	27.8	22.2	19.2	21.9	7.8
Electric	62.3	6.6	15.9	13.2	11.4	15.3	8.1
Natural Gas	33.7	1.8	10.9	8.2	7.0	5.8	9.3
LPG	4.2	0.8	1.0	0.8	0.8	0.8	25.4
Other	Q	Q	Q	Q	Q	Q	NF
Self-Cleaning Oven	44.7	4.6	13.7	9.9	7.4	9.1	7.9
Continuous	10.1	0.8	2.6	2.6	1.8	2.3	12.7
Manual Start	34.6	3.8	11.1	7.4	5.6	6.8	8.3
Pumps (Electric)	20.1	2.6	6.3	4.4	2.8	4.1	11.4
Hot Tub or Spa	4.0	0.3	1.0	0.8	0.8	1.1	17.2
Swimming Pool	5.5	0.3	1.4	1.2	0.7	1.9	14.7
Well Water	14.3	2.3	4.8	3.1	1.7	2.5	15.7
Range	100.7	9.2	27.9	22.3	19.3	22.0	7.8
Electric	61.1	6.5	15.7	13.0	10.9	14.9	8.3
Natural Gas	35.2	1.9	11.2	8.4	7.5	6.2	9.2
LPG	4.4	0.8	1.0	0.9	0.8	0.8	24.8
Other	Q	Q	Q	Q	Q	Q	NF
Refrigerators	101.3	9.2	28.0	22.5	19.5	22.1	7.8
1	85.9	7.6	23.1	19.2	16.9	19.2	7.8
2 or More	15.4	1.6	4.9	3.3	2.6	3.0	10.7

See footnotes at end of table.

**Table HC5-1a. Appliances by Climate Zone,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.9	1.1	1.1	1.3	1.0	
Most-Used Refrigerator							
Defrost Method							
Frost-Free	88.1	7.8	23.8	19.5	16.8	20.1	8.1
Manual	13.3	1.5	4.2	2.9	2.6	2.0	10.3
Type of Refrigerator							
2-Doors (top and bottom)	69.0	7.0	20.0	16.1	11.5	14.3	7.6
2-Doors (side-by-side)	20.7	1.3	5.3	3.8	4.8	5.6	9.9
Regular (single door)	10.8	0.8	2.5	2.5	3.0	2.0	13.8
Half-Size/Other	0.7	Q	0.2	Q	0.2	0.2	34.1
Age of Refrigerator							
Less than 2 Years	13.4	1.1	3.8	2.8	2.7	3.0	10.7
2 to 4 Years	21.4	1.5	5.7	4.8	4.4	5.0	9.2
5 to 9 Years	30.3	3.1	7.7	7.0	5.8	6.7	8.6
10 to 19 Years	24.1	2.3	6.8	5.5	4.7	4.9	8.3
20 Years or More	7.1	0.9	2.2	1.3	1.4	1.3	12.5
Don't Know	5.0	0.4	1.8	1.2	0.4	1.3	18.5
Size of Refrigerator							
Very Small (Less than 11 cf)	0.9	Q	0.3	0.2	0.2	Q	25.4
Small (11-14 cf)	7.7	0.6	1.9	1.3	1.9	1.9	11.3
Medium (15-18 cf)	45.7	4.4	13.0	11.4	7.8	9.0	7.8
Large (19-22 cf)	45.5	4.0	12.5	9.2	9.2	10.7	8.1
Very Large (23 or More cf)	1.5	Q	0.4	0.3	0.3	0.4	21.3
Through-the-Door Ice/Water Service							
Yes	13.2	0.6	3.2	2.2	3.0	4.1	11.9
No	88.3	8.6	24.9	20.3	16.5	18.1	8.0
Color Television Sets							
1	100.2	9.1	27.8	22.3	19.2	21.8	7.8
2	32.3	3.6	9.0	6.6	6.2	6.8	8.6
3	37.9	3.2	10.0	8.4	7.9	8.3	7.9
4	19.4	1.3	6.1	4.4	3.5	4.1	9.2
5	7.8	0.8	2.0	1.9	1.1	1.9	13.2
5 or More	2.8	0.2	0.6	0.9	0.4	0.7	19.5
Video Cassette Recorders (VCR's)							
1	88.9	8.2	24.9	19.7	17.2	18.8	7.9
2	56.3	5.5	15.8	12.6	11.1	11.2	7.6
3	25.2	2.2	6.8	5.5	4.9	5.8	9.7
3 or More	7.3	0.4	2.3	1.6	1.2	1.7	13.1
Water Heaters							
Electric	101.5	9.3	28.0	22.5	19.5	22.2	7.8
For One Housing Unit	39.6	3.7	7.7	9.0	7.6	11.6	10.3
For Two or More Units	37.8	3.5	7.2	8.7	7.3	11.1	10.6
For Two or More Units	1.8	0.2	0.5	0.3	0.3	0.5	23.9
Natural Gas	52.6	4.2	17.8	9.8	11.2	9.7	8.8
For One Housing Unit	46.5	3.6	15.5	8.2	9.9	9.2	9.7
For Two or More Units	6.2	0.6	2.2	1.6	1.3	0.5	17.0
Fuel Oil	5.1	0.8	1.6	2.8	Q	Q	17.7
For One Housing Unit	3.1	0.6	1.3	1.3	Q	Q	22.3
For Two or More Units	2.0	Q	0.3	1.5	Q	Q	21.9
LPG	3.2	0.5	0.8	0.7	0.6	0.5	24.8
Other	0.7	Q	Q	Q	Q	0.2	49.9
No Water Heater	0.2	Q	Q	Q	Q	Q	96.0

See footnotes at end of table.

**Table HC5-1a. Appliances by Climate Zone,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.9	1.1	1.1	1.3	1.0	
Water Heater (for one housing unit)	91.1	8.2	24.9	19.0	17.9	21.0	8.5
Age							
Less than 2 Years	11.2	1.0	3.4	2.5	2.1	2.3	12.5
2 to 4 Years	17.0	1.5	5.0	3.0	3.3	4.2	10.2
5 to 9 Years	25.3	2.1	6.7	5.3	5.1	6.1	8.9
10 to 19 Years	20.2	2.2	4.9	4.5	3.9	4.7	11.0
20 Years or More	7.1	0.7	1.8	1.1	2.0	1.4	15.0
Don't Know	7.1	0.3	2.1	1.2	1.3	2.1	14.4
No Separate Heater	3.0	0.4	0.9	1.3	0.2	0.1	27.3
No Water Heater	0.2	Q	Q	Q	Q	Q	96.0
Water Heaters for Two or More Units	10.3	1.1	3.1	3.5	1.6	1.1	13.3
Size							
Small	15.5	1.2	3.6	2.9	3.1	4.8	11.9
Medium	47.1	4.5	13.3	9.1	9.6	10.7	8.5
Large	21.7	1.9	5.7	5.0	4.6	4.5	10.7
Don't Know	3.8	0.2	1.4	0.7	0.4	1.0	21.4
No Separate Heater	3.0	0.4	0.9	1.3	0.2	0.1	27.3
No Water Heater	0.2	Q	Q	Q	Q	Q	96.0
Water Heaters for Two or More Units	10.3	1.1	3.1	3.5	1.6	1.1	13.3
Other Appliances							
Heated Aquarium	3.9	0.4	1.1	0.8	0.8	0.7	15.2
Microwave Oven	84.2	8.4	23.5	18.8	15.9	17.6	8.2
Outdoor Gas Light ³	0.7	Q	0.3	Q	Q	0.2	38.6
Rechargeable Tools/ or Appliances	44.4	4.8	12.7	9.8	8.0	9.1	7.7
Stereo Equipment	69.8	6.2	19.4	15.4	13.5	15.2	7.5

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

² The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

³ Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC5-2a. Appliances by Year of Construction,
Million U.S. Households, 1997**

Appliance Types and Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.4	1.7	1.3	1.0	1.1	1.1	0.9	
Total	101.5	9.7	17.3	19.6	14.4	12.5	27.9	4.1
Households With Electric								
Air-Conditioning Equipment	73.6	8.3	14.8	14.8	10.2	8.9	16.5	4.7
Central Equipment Not Used	0.3	Q	Q	Q	Q	Q	Q	44.6
Room Air Conditioners Not Used ..	0.7	Q	Q	Q	Q	Q	0.3	30.5
Households Using Electric								
Air-Conditioning ²	72.6	8.3	14.6	14.7	10.0	8.9	16.1	4.7
Type of Electric Air-Conditioning								
Used								
Central Air-Conditioning ³	47.5	7.5	12.9	10.8	6.5	4.6	5.2	6.2
Without a Heat Pump	36.9	5.6	9.0	8.2	5.5	3.8	4.8	7.5
With a Heat Pump	10.6	1.9	3.9	2.6	1.0	0.8	0.3	15.2
Room Air-Conditioning	25.2	0.8	1.8	3.9	3.5	4.3	10.9	8.6
1 Unit	14.9	0.6	1.4	2.6	2.0	2.2	6.0	10.8
2 Units	7.2	Q	0.3	0.9	0.9	1.5	3.5	13.3
3 or More Units	3.0	Q	Q	0.4	0.5	0.6	1.5	19.4
Clothes Washer	78.5	8.7	14.4	14.2	10.1	10.2	21.0	4.3
Clothes Dryer	72.2	8.6	13.8	13.5	9.2	9.0	18.2	4.6
Electric	55.9	7.0	11.6	11.5	7.2	6.1	12.6	5.3
Natural Gas	15.4	1.6	2.1	1.8	1.9	2.8	5.3	12.1
LPG	0.8	Q	Q	0.1	Q	Q	0.3	30.3
Dishwasher	50.9	7.4	12.3	11.1	7.0	4.7	8.4	5.7
Ceiling Fans	61.0	7.3	11.1	11.4	8.6	7.2	15.3	4.8
1	23.6	2.8	3.7	4.7	3.8	2.6	6.1	7.8
2	14.0	1.6	2.3	2.6	1.7	1.6	4.2	9.4
3 or more	23.4	3.0	5.1	4.1	3.1	3.0	5.0	6.9
Freezer	33.7	3.4	5.3	6.0	4.8	4.1	10.0	5.8
1	30.7	3.3	5.0	5.5	4.1	3.8	9.1	6.2
2 or more	3.0	Q	0.4	0.5	0.7	0.3	0.9	17.9
Most-Used Freezer								
Defrost Method								
Frost-Free	10.7	1.3	1.9	1.8	1.6	1.3	2.8	9.3
Manual	23.0	2.1	3.4	4.2	3.2	2.8	7.2	6.9
Type of Freezer								
Upright	16.5	1.6	3.0	3.1	2.4	2.1	4.3	7.6
Chest	17.1	1.9	2.3	2.9	2.4	2.0	5.7	8.1
Age of Freezer								
Less than 2 Years	2.4	0.5	0.4	0.3	0.3	0.2	0.6	20.9
2 to 4 Years	4.2	0.7	0.7	0.7	0.4	0.4	1.3	17.1
5 to 9 Years	7.5	0.9	1.7	1.4	0.8	0.8	1.9	12.3
10 to 19 Years	12.3	1.0	1.9	2.2	1.9	1.5	3.9	9.4
20 Years or More	6.7	0.3	0.5	1.3	1.2	1.1	2.2	13.7
Don't Know	0.5	Q	Q	Q	Q	Q	0.2	35.4

See footnotes at end of table.

**Table HC5-2a. Appliances by Year of Construction,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.4	1.7	1.3	1.0	1.1	1.1	0.9	
Freezer Size								
Very Small (Less than 11 cf)	2.7	0.3	0.4	0.5	0.3	0.3	0.9	19.6
Small (11-14 cf)	6.7	0.8	1.2	1.3	0.9	0.6	1.9	12.4
Medium (15-18 cf)	13.5	1.4	2.3	2.3	2.0	1.6	3.9	9.4
Large (19-22 cf)	9.0	0.7	1.2	1.7	1.3	1.2	3.0	11.4
Very Large (23 or More cf)	1.7	0.2	0.3	0.2	0.3	0.4	0.4	23.9
Heaters (other)								
Hot Tub or Spa	4.0	0.9	1.0	0.9	0.4	0.3	0.5	17.2
Electric	2.7	0.5	0.5	0.7	0.3	0.3	0.4	20.5
Natural Gas	1.2	Q	0.4	0.2	Q	Q	Q	37.2
LPG/Other	Q	Q	Q	Q	Q	Q	Q	NF
Portable Space	14.1	0.7	2.2	2.1	2.2	1.9	5.0	9.5
Electric	12.3	0.6	1.9	1.8	2.0	1.7	4.2	10.2
Kerosene	2.1	Q	0.3	0.4	0.2	0.2	0.9	22.7
Swimming Pool	1.1	Q	Q	0.3	Q	Q	0.2	36.7
Natural Gas	0.7	Q	Q	Q	Q	Q	Q	56.1
Electric/LPG/Other	0.4	Q	Q	Q	Q	Q	Q	62.4
Waterbed Heaters	8.4	0.9	1.6	1.9	1.1	1.0	1.9	12.3
1	6.9	0.8	1.3	1.5	1.0	0.9	1.5	13.5
2 or More	1.5	Q	0.3	0.4	0.2	Q	0.4	24.6
Waterbed Heaters								
Used All Year	7.4	0.8	1.4	1.6	1.0	1.0	1.7	13.1
1	6.4	0.8	1.2	1.4	0.8	0.9	1.3	14.3
2 or More	1.0	Q	Q	0.2	0.2	Q	0.3	26.7
Oven	100.3	9.6	17.2	19.4	14.3	12.4	27.4	4.1
Electric	62.3	7.4	13.3	14.3	9.2	6.8	11.4	5.2
Natural Gas	33.7	1.8	3.2	4.2	4.3	5.4	14.8	8.3
LPG	4.2	0.4	0.7	0.8	0.7	0.2	1.3	17.9
Other	Q	Q	Q	Q	Q	Q	Q	NF
Self-Cleaning Oven	44.7	5.8	9.0	9.5	5.6	5.0	9.8	5.9
Continuous	10.1	1.3	1.8	2.1	1.3	1.3	2.4	10.4
Manual Start	34.6	4.5	7.2	7.4	4.4	3.7	7.5	6.6
Pumps (Electric)	20.1	2.6	3.3	4.6	2.7	2.0	5.0	8.6
Hot Tub or Spa	4.0	0.9	1.0	0.9	0.4	0.4	0.5	17.0
Swimming Pool	5.5	0.5	1.1	1.6	0.7	0.6	1.0	14.5
Well Water	14.3	1.8	2.1	3.2	1.9	1.3	3.9	11.5
Range	100.7	9.7	17.2	19.5	14.4	12.4	27.5	4.1
Electric	61.1	7.0	13.0	14.2	9.0	6.5	11.2	5.3
Natural Gas	35.2	2.1	3.5	4.4	4.6	5.7	15.0	8.2
LPG	4.4	0.5	0.7	0.9	0.8	0.2	1.4	17.9
Other	Q	Q	Q	Q	Q	Q	Q	NF
Refrigerators	101.3	9.7	17.3	19.5	14.4	12.5	27.8	4.1
1	85.9	8.1	14.5	17.0	11.8	10.3	24.3	4.3
2 or More	15.4	1.6	2.8	2.5	2.6	2.3	3.6	8.6

See footnotes at end of table.

**Table HC5-2a. Appliances by Year of Construction,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.4	1.7	1.3	1.0	1.1	1.1	0.9	
Most-Used Refrigerator								
Defrost Method								
Frost-Free	88.1	9.2	15.6	17.1	12.1	11.1	22.9	4.3
Manual	13.3	0.5	1.7	2.5	2.3	1.5	4.9	10.2
Type of Refrigerator								
2-Doors (top and bottom)	69.0	5.7	12.2	13.4	9.2	8.8	19.6	4.4
2-Doors (side-by-side)	20.7	3.3	3.6	4.1	3.0	2.5	4.3	8.0
Regular (single door)	10.8	0.7	1.3	2.0	2.1	1.2	3.6	12.6
Half-Size/Other	0.7	Q	Q	Q	Q	Q	0.3	31.6
Age of Refrigerator								
Less than 2 Years	13.4	2.4	1.7	2.8	1.5	1.4	3.6	8.7
2 to 4 Years	21.4	3.3	2.9	4.1	3.2	2.5	5.4	6.8
5 to 9 Years	30.3	3.0	6.2	5.3	4.2	3.7	7.9	6.3
10 to 19 Years	24.1	0.8	5.2	4.5	3.3	3.1	7.3	7.2
20 Years or More	7.1	Q	0.3	1.8	1.4	1.1	2.4	12.6
Don't Know	5.0	Q	0.9	1.1	0.8	0.7	1.3	16.8
Size of Refrigerator								
Very Small (Less than 11 cf)	0.9	Q	Q	0.2	0.1	Q	0.4	27.7
Small (11-14 cf)	7.7	0.3	1.2	1.5	1.1	1.0	2.6	12.4
Medium (15-18 cf)	45.7	3.7	8.0	9.0	6.6	5.6	12.8	5.1
Large (19-22 cf)	45.5	5.4	7.8	8.6	6.2	5.7	11.7	5.6
Very Large (23 or More cf)	1.5	Q	0.2	0.3	0.3	0.2	0.4	25.0
Through-the-Door Ice/Water Service								
Yes	13.2	2.7	2.5	2.6	1.7	1.4	2.2	9.9
No	88.3	7.0	14.8	17.0	12.8	11.1	25.7	4.5
Color Television Sets								
1	100.2	9.6	17.2	19.3	14.3	12.4	27.4	4.1
2	32.3	2.3	4.7	6.5	4.8	3.8	10.2	6.5
3	37.9	3.9	6.8	7.5	5.3	4.6	9.8	5.6
4	19.4	2.1	3.6	3.4	2.9	2.6	4.7	7.5
5 or More	7.8	0.9	1.5	1.5	0.8	1.1	2.0	12.0
5 or More	2.8	0.5	0.6	0.4	0.5	0.2	0.7	19.9
Video Cassette Recorders (VCR's)								
1	88.9	9.2	15.8	17.3	12.8	10.6	23.2	4.1
2	56.3	5.3	9.3	10.9	8.4	6.9	15.7	4.8
3 or More	25.2	2.9	4.9	5.1	3.5	2.9	5.8	7.1
3 or More	7.3	0.9	1.6	1.3	0.9	0.8	1.7	12.6
Water Heaters								
Electric	101.5	9.7	17.3	19.6	14.4	12.5	27.9	4.1
For One Housing Unit	39.6	4.7	10.0	10.0	4.8	3.5	6.6	6.7
For Two or More Units	37.8	4.6	9.5	9.5	4.5	3.3	6.4	6.8
Natural Gas	1.8	Q	0.4	0.5	0.3	0.2	0.2	26.8
For One Housing Unit	52.6	4.6	6.3	8.2	8.3	7.7	17.4	6.5
For Two or More Units	46.5	4.4	6.1	6.7	7.0	7.3	15.0	6.9
Fuel Oil	6.2	Q	0.2	1.6	1.3	0.4	2.5	18.0
For One Housing Unit	5.1	Q	0.4	0.4	0.8	1.0	2.4	17.6
For Two or More Units	3.1	Q	0.3	0.3	0.5	0.7	1.2	18.8
LPG	2.0	Q	Q	Q	0.3	0.3	1.2	27.8
Other	3.2	0.2	0.5	0.6	0.4	0.3	1.2	18.0
No Water Heater	0.7	Q	Q	0.3	Q	Q	Q	40.3
No Water Heater	0.2	Q	Q	Q	Q	Q	Q	78.0

See footnotes at end of table.

**Table HC5-2a. Appliances by Year of Construction,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.4	1.7	1.3	1.0	1.1	1.1	0.9	
Water Heater (for one housing unit)	91.1	9.4	16.6	17.2	12.5	11.7	23.8	4.2
Age								
Less than 2 Years	11.2	2.5	1.7	1.7	1.4	1.2	2.6	10.1
2 to 4 Years	17.0	3.4	2.0	3.0	2.3	2.0	4.3	7.4
5 to 9 Years	25.3	3.1	6.1	4.2	3.3	2.9	5.7	7.2
10 to 19 Years	20.2	Q	5.3	4.0	2.6	2.9	5.4	7.7
20 Years or More	7.1	Q	Q	1.9	1.4	1.3	2.5	11.2
Don't Know	7.1	0.2	1.1	1.8	1.0	0.9	2.1	13.2
No Separate Heater	3.0	Q	0.3	0.5	0.5	0.5	1.1	21.4
No Water Heater	0.2	Q	Q	Q	Q	Q	Q	78.0
Water Heaters for								
Two or More Units	10.3	0.3	0.7	2.4	1.9	0.9	4.0	15.8
Size								
Small	15.5	0.9	2.8	3.3	2.5	2.0	4.1	9.2
Medium	47.1	4.5	8.5	8.2	6.3	6.7	12.8	5.3
Large	21.7	3.4	4.3	4.4	2.7	2.2	4.7	8.5
Don't Know	3.8	0.4	0.7	0.8	0.5	0.3	1.1	18.9
No Separate Heater	3.0	Q	0.3	0.5	0.5	0.5	1.1	21.4
No Water Heater	0.2	Q	Q	Q	Q	Q	Q	78.0
Water Heaters for								
Two or More Units	10.3	0.3	0.7	2.4	1.9	0.9	4.0	15.8
Other Appliances								
Heated Aquarium	3.9	0.4	0.8	0.8	0.4	0.5	1.0	16.4
Microwave Oven	84.2	8.6	15.1	16.4	12.0	10.4	21.7	4.3
Outdoor Gas Light ³	0.7	Q	Q	Q	Q	Q	0.2	36.5
Rechargeable Tools/ or Appliances	44.4	5.3	8.0	8.7	6.2	5.3	10.8	5.6
Stereo Equipment	69.8	7.4	13.0	13.8	9.8	8.2	17.6	4.6

¹ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

² The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

³ Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

Table HC5-3a. Appliances by Household Income, Million U.S. Households, 1997

Appliance Types and Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.5	1.6	1.0	0.9	1.0	1.4	1.0	
Total	101.5	13.3	29.1	31.1	27.9	14.6	34.1	2.7
Households With Electric Air-Conditioning Equipment	73.6	8.2	19.6	23.4	22.4	8.4	21.3	3.6
Central Equipment Not Used	0.3	Q	Q	Q	Q	Q	Q	37.1
Room Air Conditioners Not Used ..	0.7	Q	0.2	0.2	0.2	Q	0.3	30.4
Households Using Electric Air-Conditioning²	72.6	8.1	19.3	23.1	22.2	8.3	20.9	3.6
Type of Electric Air-Conditioning Used								
Central Air-Conditioning ³	47.5	3.6	10.9	15.6	17.3	3.7	10.5	5.4
Without a Heat Pump	36.9	2.8	8.4	12.5	13.3	2.8	8.0	6.7
With a Heat Pump	10.6	0.9	2.5	3.2	4.1	0.8	2.5	12.5
Room Air-Conditioning	25.2	4.4	8.4	7.5	4.9	4.6	10.4	5.7
1 Unit	14.9	3.3	5.5	4.0	2.2	3.4	6.9	7.0
2 Units	7.2	1.0	2.1	2.6	1.5	1.1	2.7	10.2
3 or More Units	3.0	Q	0.8	0.9	1.2	0.2	0.8	18.9
Clothes Washer	78.5	7.0	20.1	25.4	26.1	8.5	21.6	3.3
Clothes Dryer	72.2	4.8	17.8	24.0	25.6	6.1	17.5	3.6
Electric	55.9	4.1	14.3	18.7	18.9	4.9	13.7	4.3
Natural Gas	15.4	0.6	3.2	5.1	6.5	1.2	3.5	9.5
LPG	0.8	Q	0.3	0.3	0.2	Q	0.2	28.6
Dishwasher	50.9	2.1	10.3	16.7	21.8	2.5	9.1	5.2
Ceiling Fans	61.0	5.2	16.1	20.0	19.6	6.0	16.4	3.9
1	23.6	2.8	7.2	7.9	5.7	3.3	8.0	5.9
2	14.0	1.0	3.8	4.7	4.5	1.0	3.7	8.3
3 or more	23.4	1.4	5.1	7.4	9.4	1.7	4.7	6.8
Freezer	33.7	3.4	8.7	10.9	10.6	3.9	9.5	5.3
1	30.7	3.1	8.0	10.0	9.5	3.6	8.8	5.5
2 or more	3.0	0.3	0.7	0.9	1.1	0.3	0.7	16.2
Most-Used Freezer Defrost Method								
Frost-Free	10.7	1.0	2.3	3.7	3.7	1.1	2.6	8.1
Manual	23.0	2.4	6.4	7.2	6.9	2.8	6.9	6.4
Type of Freezer								
Upright	16.5	1.3	4.0	5.1	6.1	1.4	3.9	7.2
Chest	17.1	2.2	4.7	5.8	4.4	2.4	5.6	7.2
Age of Freezer								
Less than 2 Years	2.4	0.2	0.7	0.7	0.8	0.3	0.8	17.7
2 to 4 Years	4.2	0.4	1.1	1.2	1.5	0.5	1.1	14.0
5 to 9 Years	7.5	0.9	1.7	2.5	2.4	1.1	2.1	10.7
10 to 19 Years	12.3	1.2	3.0	4.1	4.0	1.5	3.4	8.0
20 Years or More	6.7	0.6	2.2	2.2	1.8	0.5	2.0	11.8
Don't Know	0.5	Q	0.2	0.2	Q	Q	0.1	31.7

See footnotes at end of table.

**Table HC5-3a. Appliances by Household Income,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.5	1.6	1.0	0.9	1.0	1.4	1.0	
Freezer Size								
Very Small (Less than 11 cf)	2.7	0.3	0.7	0.9	0.8	0.3	0.6	16.2
Small (11-14 cf)	6.7	0.7	1.8	2.2	2.0	0.8	2.0	11.1
Medium (15-18 cf)	13.5	1.5	3.8	4.3	3.9	1.6	4.1	7.9
Large (19-22 cf)	9.0	0.9	2.2	3.1	2.9	1.0	2.5	9.9
Very Large (23 or More cf)	1.7	Q	0.2	0.5	0.9	Q	0.3	21.5
Heaters (other)								
Hot Tub or Spa	4.0	Q	0.3	1.1	2.3	0.3	0.6	20.7
Electric	2.7	Q	0.3	0.7	1.6	Q	0.4	21.2
Natural Gas	1.2	Q	Q	0.3	0.7	Q	Q	33.1
LPG/Other	Q	Q	Q	Q	Q	Q	Q	NF
Portable Space	14.1	1.5	3.7	4.5	4.5	1.9	4.0	7.1
Electric	12.3	1.3	3.2	3.8	4.1	1.6	3.4	7.4
Kerosene	2.1	0.2	0.6	0.8	0.5	0.3	0.6	17.1
Swimming Pool	1.1	Q	Q	0.3	0.7	Q	Q	33.1
Natural Gas	0.7	Q	Q	Q	0.5	Q	Q	34.2
Electric/LPG/Other	0.4	Q	Q	Q	0.2	Q	Q	40.2
Waterbed Heaters	8.4	0.3	2.1	2.9	3.1	0.6	1.8	12.5
1	6.9	0.3	1.8	2.3	2.5	0.5	1.6	13.9
2 or More	1.5	Q	0.3	0.6	0.6	Q	0.2	23.2
Waterbed Heaters								
Used All Year	7.4	0.3	1.8	2.6	2.8	0.5	1.4	13.6
1	6.4	0.3	1.6	2.2	2.4	0.5	1.3	14.7
2 or More	1.0	Q	0.2	0.5	0.4	Q	Q	23.8
Oven	100.3	12.9	28.7	30.9	27.7	14.3	33.4	2.7
Electric	62.3	6.5	17.1	19.9	18.8	7.0	17.9	3.9
Natural Gas	33.7	5.6	10.2	9.8	8.1	6.5	13.7	5.3
LPG	4.2	0.7	1.5	1.2	0.8	0.7	1.7	15.7
Other	Q	Q	Q	Q	Q	Q	Q	NF
Self-Cleaning Oven	44.7	2.4	9.1	14.6	18.6	2.8	8.6	5.2
Continuous	10.1	0.7	2.6	3.3	3.5	0.8	2.4	9.8
Manual Start	34.6	1.7	6.5	11.3	15.1	2.1	6.3	6.2
Pumps (Electric)	20.1	1.2	4.2	6.3	8.3	1.6	4.3	8.6
Hot Tub or Spa	4.0	Q	0.3	1.1	2.4	0.3	0.6	20.6
Swimming Pool	5.5	Q	0.7	1.6	3.1	0.3	0.7	15.0
Well Water	14.3	1.1	3.6	4.5	5.2	1.4	3.6	10.8
Range	100.7	12.9	28.9	31.1	27.8	14.3	33.5	2.7
Electric	61.1	6.5	17.0	19.6	18.0	7.0	17.8	4.0
Natural Gas	35.2	5.6	10.4	10.2	8.9	6.6	13.9	5.2
LPG	4.4	0.7	1.5	1.3	0.9	0.8	1.8	15.4
Other	Q	Q	Q	Q	Q	Q	Q	NF
Refrigerators	101.3	13.2	29.1	31.1	27.9	14.6	34.0	2.7
1	85.9	12.5	26.4	26.0	21.1	13.6	31.1	2.9
2 or More	15.4	0.7	2.7	5.1	6.8	1.0	2.8	8.2

See footnotes at end of table.

Table HC5-3a. Appliances by Household Income, Million U.S. Households, 1997 (Continued)

Appliance Types and Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.5	1.6	1.0	0.9	1.0	1.4	1.0	
Most-Used Refrigerator								
Defrost Method								
Frost-Free	88.1	9.7	24.2	27.6	26.6	11.1	27.0	3.1
Manual	13.3	3.5	4.9	3.5	1.3	3.5	7.0	7.2
Type of Refrigerator								
2-Doors (top and bottom)	69.0	9.3	21.0	21.9	16.7	10.3	24.6	3.1
2-Doors (side-by-side)	20.7	1.2	4.2	5.9	9.5	1.6	4.1	7.6
Regular (single door)	10.8	2.5	3.7	3.1	1.6	2.5	5.0	8.7
Half-Size/Other	0.7	0.2	0.2	0.2	Q	0.2	0.3	25.6
Age of Refrigerator								
Less than 2 Years	13.4	1.6	3.4	4.3	4.1	1.7	4.0	7.3
2 to 4 Years	21.4	2.9	5.3	6.4	6.8	3.7	7.2	5.6
5 to 9 Years	30.3	3.4	8.8	9.3	8.8	3.9	9.7	4.7
10 to 19 Years	24.1	2.9	7.1	7.7	6.4	2.8	7.7	5.8
20 Years or More	7.1	1.2	2.6	2.0	1.2	1.1	2.7	10.0
Don't Know	5.0	1.2	1.8	1.4	0.7	1.3	2.6	12.6
Size of Refrigerator								
Very Small (Less than 11 cf)	0.9	0.4	0.2	0.2	Q	0.4	0.5	19.2
Small (11-14 cf)	7.7	2.1	2.7	2.2	0.7	1.9	4.0	9.7
Medium (15-18 cf)	45.7	6.8	15.3	14.3	9.3	7.8	17.2	3.7
Large (19-22 cf)	45.5	3.9	10.7	14.0	16.9	4.5	12.1	4.6
Very Large (23 or More cf)	1.5	Q	0.2	0.4	0.8	Q	0.2	22.4
Through-the-Door Ice/Water Service								
Yes	13.2	0.5	2.2	3.5	6.9	0.8	2.1	11.0
No	88.3	12.8	26.9	27.6	21.0	13.8	32.0	2.8
Color Television Sets								
1	100.2	12.8	28.7	30.9	27.8	14.3	33.2	2.7
2	32.3	7.4	11.8	8.5	4.6	6.9	14.8	4.7
3	37.9	4.1	11.0	13.0	9.9	5.1	12.1	4.5
4	19.4	1.0	4.5	6.4	7.5	1.7	4.7	6.6
5 or More	7.8	0.2	1.1	2.6	3.9	0.4	1.2	11.7
5 or More	2.8	Q	0.3	0.5	1.9	Q	0.4	18.8
Video Cassette Recorders (VCR's)								
1	88.9	8.9	24.5	28.5	27.0	10.8	26.3	3.1
2	56.3	6.4	18.4	18.5	13.0	7.7	18.9	3.6
3 or More	25.2	2.4	5.2	7.9	9.8	2.8	6.5	6.1
3 or More	7.3	Q	0.8	2.2	4.1	0.3	0.9	12.2
Water Heaters								
Electric	101.5	13.3	29.1	31.1	27.9	14.6	34.1	2.7
For One Housing Unit	39.6	5.4	12.6	12.4	9.2	5.7	13.8	5.4
For Two or More Units	37.8	5.0	11.9	12.0	8.9	5.4	12.8	5.5
Natural Gas	1.8	0.4	0.7	0.5	0.2	0.3	1.0	20.8
For One Housing Unit	52.6	6.2	14.1	16.0	16.2	7.3	16.8	4.9
For Two or More Units	46.5	4.7	11.9	14.3	15.7	5.6	13.5	5.7
Fuel Oil	6.2	1.6	2.2	1.8	0.6	1.7	3.3	11.3
For One Housing Unit	5.1	1.0	1.3	1.5	1.4	0.9	2.0	11.1
For Two or More Units	3.1	0.2	0.7	1.0	1.2	0.2	0.7	18.1
LPG	2.0	0.8	0.6	0.5	0.2	0.8	1.3	15.5
Other	3.2	0.4	1.0	1.0	0.8	0.5	1.1	15.8
No Water Heater	0.7	Q	Q	0.1	0.3	0.2	0.3	35.7
No Water Heater	0.2	Q	Q	Q	Q	Q	Q	65.0

See footnotes at end of table.

**Table HC5-3a. Appliances by Household Income,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	1997 Household Income				Below Poverty Line	Eli- gible for Fed- eral Assist- ance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.5	1.6	1.0	0.9	1.0	1.4	1.0	
Water Heater (for one housing unit)	91.1	10.4	25.5	28.3	26.9	11.7	28.3	3.3
Age								
Less than 2 Years	11.2	1.1	2.7	4.0	3.4	1.3	3.2	7.9
2 to 4 Years	17.0	2.0	4.3	4.8	5.9	2.4	5.2	6.4
5 to 9 Years	25.3	2.0	6.4	8.3	8.5	2.5	6.7	6.0
10 to 19 Years	20.2	1.9	6.3	6.4	5.7	2.1	6.0	6.5
20 Years or More	7.1	1.3	2.6	1.8	1.4	1.4	3.2	9.8
Don't Know	7.1	1.4	2.3	2.3	1.2	1.6	3.0	10.2
No Separate Heater	3.0	0.5	0.9	0.8	0.8	0.5	1.1	17.7
No Water Heater	0.2	Q	Q	Q	Q	Q	Q	65.0
Water Heaters for								
Two or More Units	10.3	2.8	3.6	2.8	1.0	2.9	5.7	8.6
Size								
Small	15.5	2.6	6.0	4.6	2.3	2.6	6.2	7.0
Medium	47.1	4.6	13.2	15.3	14.1	5.4	14.0	4.3
Large	21.7	1.8	4.5	6.6	8.7	2.4	5.4	7.6
Don't Know	3.8	0.8	1.0	1.0	1.0	0.7	1.6	15.6
No Separate Heater	3.0	0.5	0.9	0.8	0.8	0.5	1.1	17.7
No Water Heater	0.2	Q	Q	Q	Q	Q	Q	65.0
Water Heaters for								
Two or More Units	10.3	2.8	3.6	2.8	1.0	2.9	5.7	8.6
Other Appliances								
Heated Aquarium	3.9	0.4	0.8	1.2	1.4	0.4	1.0	14.4
Microwave Oven	84.2	8.0	23.7	27.0	25.5	9.3	24.5	3.3
Outdoor Gas Light ³	0.7	Q	Q	0.2	0.3	Q	Q	33.2
Rechargeable Tools/ or Appliances	44.4	2.0	9.3	15.1	17.9	2.8	8.8	4.8
Stereo Equipment	69.8	6.0	17.5	23.0	23.4	7.8	19.1	3.6

¹ Below 150 percent of poverty line or 60 percent of median State income.

² The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

³ Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC5-4a. Appliances by Type of Housing Unit,
Million U.S. Households, 1997**

Appliance Types and Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.5	1.9	1.5	1.7	
Total	101.5	73.7	5.6	15.8	6.3	3.8
Households With Electric						
Air-Conditioning Equipment	73.6	54.4	3.5	11.1	4.5	4.8
Central Equipment Not Used	0.3	0.2	Q	Q	Q	57.3
Room Air Conditioners Not Used ..	0.7	0.5	Q	Q	Q	42.5
Households Using Electric						
Air-Conditioning¹	72.6	53.8	3.4	10.9	4.5	4.8
Type of Electric Air-Conditioning						
Used						
Central Air-Conditioning ²	47.5	36.8	1.6	6.5	2.6	7.0
Without a Heat Pump	36.9	28.3	1.4	5.1	2.1	8.4
With a Heat Pump	10.6	8.4	Q	1.4	0.6	17.5
Room Air-Conditioning	25.2	17.1	1.8	4.4	1.9	7.8
1 Unit	14.9	8.7	1.4	3.4	1.3	9.3
2 Units	7.2	5.6	0.4	0.8	0.4	13.4
3 or More Units	3.0	2.7	Q	Q	Q	24.3
Clothes Washer	78.5	68.0	2.2	3.4	5.0	4.9
Clothes Dryer	72.2	63.3	1.6	2.8	4.5	5.5
Electric	55.9	47.8	1.3	2.6	4.3	6.9
Natural Gas	15.4	14.7	0.3	0.2	0.3	16.9
LPG	0.8	0.8	Q	Q	Q	34.3
Dishwasher	50.9	41.7	1.0	6.3	1.8	6.7
Ceiling Fans	61.0	50.7	1.8	4.9	3.6	5.4
1	23.6	16.5	1.2	3.7	2.2	7.8
2	14.0	12.3	0.2	0.8	0.7	11.0
3 or more	23.4	21.9	0.3	0.5	0.7	10.6
Freezer	33.7	30.7	0.6	0.6	1.8	7.6
1	30.7	27.9	0.6	0.6	1.6	7.9
2 or more	3.0	2.8	Q	Q	Q	17.6
Most-Used Freezer						
Defrost Method						
Frost-Free	10.7	9.7	Q	0.3	0.5	11.1
Manual	23.0	21.0	0.5	0.3	1.2	9.2
Type of Freezer						
Upright	16.5	15.4	0.3	0.2	0.7	10.8
Chest	17.1	15.3	0.4	0.4	1.1	11.5
Age of Freezer						
Less than 2 Years	2.4	2.0	Q	Q	0.2	23.5
2 to 4 Years	4.2	3.6	Q	0.2	0.3	19.1
5 to 9 Years	7.5	6.7	0.2	Q	0.5	12.3
10 to 19 Years	12.3	11.7	Q	0.1	0.4	12.5
20 Years or More	6.7	6.3	Q	Q	0.3	14.4
Don't Know	0.5	0.4	Q	Q	Q	44.8

See footnotes at end of table.

**Table HC5-4a. Appliances by Type of Housing Unit,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.5	1.9	1.5	1.7	
Freezer Size						
Very Small (Less than 11 cf)	2.7	2.2	Q	Q	0.3	19.5
Small (11-14 cf)	6.7	5.9	Q	0.2	0.5	14.7
Medium (15-18 cf)	13.5	12.5	0.2	0.2	0.5	13.6
Large (19-22 cf)	9.0	8.4	Q	Q	0.4	11.9
Very Large (23 or More cf)	1.7	1.6	Q	Q	Q	24.2
Heaters (other)						
Hot Tub or Spa	4.0	3.9	Q	Q	Q	20.0
Electric	2.7	2.6	Q	Q	Q	21.3
Natural Gas	1.2	1.2	Q	Q	Q	55.7
LPG/Other	Q	Q	Q	Q	Q	NF
Portable Space	14.1	11.4	0.6	1.1	1.0	9.9
Electric	12.3	9.8	0.5	1.1	0.9	10.2
Kerosene	2.1	1.9	Q	Q	0.1	21.5
Swimming Pool	1.1	1.1	Q	Q	Q	51.7
Natural Gas	0.7	0.7	Q	Q	Q	56.0
Electric/LPG/Other	0.4	0.4	Q	Q	Q	62.3
Waterbed Heaters	8.4	7.1	0.3	0.6	0.4	14.5
1	6.9	5.7	0.3	0.6	0.3	15.5
2 or More	1.5	1.4	Q	Q	Q	23.6
Waterbed Heaters Used All Year	7.4	6.4	0.2	0.6	0.3	15.2
1	6.4	5.5	0.2	0.6	0.3	16.1
2 or More	1.0	1.0	Q	Q	Q	24.6
Oven	100.3	72.9	5.6	15.6	6.2	3.8
Electric	62.3	46.1	2.8	10.2	3.2	5.4
Natural Gas	33.7	24.0	2.7	5.3	1.8	7.4
LPG	4.2	2.8	Q	Q	1.3	18.7
Other	Q	Q	Q	Q	Q	NF
Self-Cleaning Oven	44.7	39.8	0.8	3.0	1.1	7.0
Continuous	10.1	8.5	0.2	1.0	0.4	12.8
Manual Start	34.6	31.2	0.7	2.0	0.7	7.8
Pumps (Electric)	20.1	18.7	0.1	Q	1.3	12.1
Hot Tub or Spa	4.0	3.9	Q	Q	Q	19.7
Swimming Pool	5.5	5.5	Q	Q	Q	15.7
Well Water	14.3	12.9	0.1	Q	1.3	15.8
Range	100.7	73.2	5.6	15.6	6.3	3.8
Electric	61.1	44.8	2.8	10.2	3.2	5.5
Natural Gas	35.2	25.3	2.7	5.4	1.8	7.3
LPG	4.4	3.0	Q	Q	1.3	18.4
Other	Q	Q	Q	Q	Q	NF
Refrigerators	101.3	73.7	5.6	15.7	6.3	3.8
1	85.9	59.0	5.4	15.5	6.0	4.1
2 or More	15.4	14.6	0.2	0.3	0.3	13.5

See footnotes at end of table.

**Table HC5-4a. Appliances by Type of Housing Unit,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.5	1.9	1.5	1.7	
Most-Used Refrigerator						
Defrost Method						
Frost-Free	88.1	67.4	3.9	11.9	4.9	4.0
Manual	13.3	6.3	1.7	3.8	1.4	9.1
Type of Refrigerator						
2-Doors (top and bottom)	69.0	48.0	4.1	12.2	4.7	4.2
2-Doors (side-by-side)	20.7	19.0	0.4	0.7	0.7	10.5
Regular (single door)	10.8	6.2	1.1	2.7	0.8	11.7
Half-Size/Other	0.7	0.4	Q	Q	Q	44.0
Age of Refrigerator						
Less than 2 Years	13.4	9.6	0.7	2.2	1.0	8.8
2 to 4 Years	21.4	15.5	1.2	3.5	1.2	7.0
5 to 9 Years	30.3	22.8	1.6	4.0	1.8	6.2
10 to 19 Years	24.1	19.1	1.1	2.6	1.3	7.2
20 Years or More	7.1	5.0	0.4	1.1	0.6	11.6
Don't Know	5.0	1.8	0.7	2.3	0.3	15.1
Size of Refrigerator						
Very Small (Less than 11 cf)	0.9	0.5	Q	0.3	Q	26.5
Small (11-14 cf)	7.7	3.6	0.8	2.6	0.7	10.4
Medium (15-18 cf)	45.7	29.5	3.1	9.4	3.7	4.9
Large (19-22 cf)	45.5	38.6	1.7	3.4	1.8	5.7
Very Large (23 or More cf)	1.5	1.5	Q	Q	Q	23.8
Through-the-Door Ice/Water Service						
Yes	13.2	12.6	Q	Q	0.4	12.3
No	88.3	61.1	5.5	15.7	6.0	4.0
Color Television Sets						
1	100.2	73.0	5.4	15.4	6.3	3.9
2	32.3	17.7	2.7	8.9	3.0	5.8
3	37.9	28.5	1.7	5.5	2.2	5.5
4	19.4	17.0	0.7	0.9	0.8	8.3
5 or More	7.8	7.2	0.2	Q	0.2	13.4
	2.8	2.6	Q	Q	Q	20.7
Video Cassette Recorders (VCR's)						
1	88.9	66.0	4.4	12.8	5.6	4.0
2	56.3	39.2	3.1	9.9	4.2	4.6
3 or More	25.2	20.2	1.1	2.6	1.3	7.7
	7.3	6.6	0.2	0.3	0.2	15.6
Water Heaters						
Electric	101.5	73.7	5.6	15.8	6.3	3.8
For One Housing Unit	39.6	26.6	1.8	6.9	4.3	7.3
For Two or More Units	37.8	26.3	1.6	5.6	4.3	7.6
Natural Gas	1.8	0.3	0.2	1.3	Q	22.1
For One Housing Unit	52.6	40.9	3.4	6.9	1.4	6.9
For Two or More Units	46.5	39.6	2.5	2.9	1.4	8.4
Fuel Oil	6.2	1.2	0.9	4.0	Q	13.6
For One Housing Unit	5.1	3.2	0.3	1.6	Q	15.9
For Two or More Units	3.1	2.9	Q	0.2	Q	22.6
LPG	2.0	0.2	0.3	1.5	Q	20.4
Other	3.2	2.6	Q	Q	0.5	19.1
No Water Heater	0.7	0.4	Q	0.3	Q	42.4
	0.2	Q	Q	Q	Q	84.4

See footnotes at end of table.

**Table HC5-4a. Appliances by Type of Housing Unit,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.5	1.9	1.5	1.7	
Water Heater (for one housing unit)	91.1	71.8	4.2	8.8	6.3	4.5
Age						
Less than 2 Years	11.2	9.1	0.3	0.7	1.0	11.3
2 to 4 Years	17.0	13.5	0.8	1.2	1.4	8.2
5 to 9 Years	25.3	20.8	1.1	2.1	1.4	8.7
10 to 19 Years	20.2	17.0	0.5	1.4	1.3	9.0
20 Years or More	7.1	5.6	0.2	0.6	0.7	13.2
Don't Know	7.1	4.0	0.9	1.7	0.5	12.3
No Separate Heater	3.0	1.8	0.2	1.0	Q	20.6
No Water Heater	0.2	Q	Q	Q	Q	84.4
Water Heaters for						
Two or More Units	10.3	1.8	1.4	7.0	Q	11.2
Size						
Small	15.5	9.8	0.9	2.4	2.3	8.9
Medium	47.1	39.0	1.8	3.3	3.0	5.8
Large	21.7	19.1	0.8	1.0	0.8	10.0
Don't Know	3.8	2.2	0.5	1.0	0.2	18.3
No Separate Heater	3.0	1.8	0.2	1.0	Q	20.6
No Water Heater	0.2	Q	Q	Q	Q	84.4
Water Heaters for						
Two or More Units	10.3	1.8	1.4	7.0	Q	11.2
Other Appliances						
Heated Aquarium	3.9	3.0	0.2	0.5	0.2	15.4
Microwave Oven	84.2	63.9	3.8	11.3	5.1	4.4
Outdoor Gas Light ²	0.7	0.6	Q	Q	Q	43.8
Rechargeable Tools/ or Appliances	44.4	37.6	1.1	3.5	2.1	5.3
Stereo Equipment	69.8	51.9	3.5	10.4	4.0	4.4

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC5-5a. Appliances by Type of Owner-Occupied Housing Unit,
Million U.S. Households, 1997**

Appliance Types and Characteristics	Total Owner- Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.3	0.3	2.6	2.8	1.3	
Total	68.5	61.1	0.9	1.2	5.3	6.2
Households With Electric Air-Conditioning Equipment	52.5	46.9	0.8	0.9	3.9	7.5
Central Equipment Not Used	0.2	0.2	Q	Q	Q	74.7
Room Air Conditioners Not Used ..	0.5	0.4	Q	Q	Q	66.9
Households Using Electric Air-Conditioning¹	51.9	46.5	0.7	0.8	3.8	7.2
Type of Electric Air-Conditioning Used						
Central Air-Conditioning ²	36.1	33.0	0.4	0.3	2.4	9.6
Without a Heat Pump	28.2	25.7	0.4	0.3	1.9	11.4
With a Heat Pump	7.9	7.4	Q	Q	0.5	27.1
Room Air-Conditioning	15.7	13.4	0.4	0.5	1.5	12.0
1 Unit	7.8	6.4	0.2	0.2	1.0	14.6
2 Units	5.2	4.5	Q	0.2	0.3	19.6
3 or More Units	2.7	2.5	Q	Q	Q	34.1
Clothes Washer	63.7	58.4	0.6	0.4	4.3	7.0
Clothes Dryer	59.9	55.1	0.5	0.4	3.9	7.2
Electric	45.7	41.3	0.4	0.3	3.7	9.1
Natural Gas	13.5	13.1	Q	Q	0.2	21.4
LPG	0.8	0.8	Q	Q	Q	48.5
Dishwasher	40.3	37.7	0.3	0.6	1.7	9.0
Ceiling Fans	49.0	44.6	0.5	0.6	3.3	7.7
1	16.1	13.6	0.3	0.2	2.0	12.4
2	11.7	10.7	Q	0.2	0.6	13.7
3 or more	21.2	20.2	Q	Q	0.7	10.4
Freezer	29.9	28.0	Q	Q	1.6	8.7
1	27.0	25.3	Q	Q	1.4	9.4
2 or more	2.9	2.7	Q	Q	Q	23.9
Most-Used Freezer Defrost Method						
Frost-Free	9.4	8.8	Q	Q	0.5	13.8
Manual	20.5	19.2	Q	Q	1.1	10.5
Type of Freezer						
Upright	15.0	14.2	Q	Q	0.6	11.5
Chest	14.9	13.8	Q	Q	1.0	12.4
Age of Freezer						
Less than 2 Years	2.0	1.8	Q	Q	Q	32.8
2 to 4 Years	3.6	3.2	Q	Q	0.3	24.7
5 to 9 Years	6.5	5.9	Q	Q	0.4	16.6
10 to 19 Years	11.2	10.7	Q	Q	0.4	15.1
20 Years or More	6.4	6.1	Q	Q	0.3	20.2
Don't Know	0.3	0.3	Q	Q	Q	76.5

See footnotes at end of table.

**Table HC5-5a. Appliances by Type of Owner-Occupied Housing Unit,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total Owner- Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.3	0.3	2.6	2.8	1.3	
Freezer Size						
Very Small (Less than 11 cf)	2.1	1.9	Q	Q	0.3	31.8
Small (11-14 cf)	5.7	5.2	Q	Q	0.4	19.7
Medium (15-18 cf)	12.3	11.7	Q	Q	0.5	15.1
Large (19-22 cf)	8.1	7.7	Q	Q	0.3	16.6
Very Large (23 or More cf)	1.6	1.5	Q	Q	Q	33.7
Heaters (other)						
Hot Tub or Spa	3.8	3.7	Q	Q	Q	27.2
Electric	2.5	2.5	Q	Q	Q	29.0
Natural Gas	1.1	1.1	Q	Q	Q	75.6
LPG/Other	Q	Q	Q	Q	Q	NF
Portable Space	10.6	9.6	Q	Q	0.9	14.4
Electric	9.2	8.3	Q	Q	0.8	15.2
Kerosene	1.6	1.6	Q	Q	Q	33.4
Swimming Pool	1.1	1.1	Q	Q	Q	70.3
Natural Gas	0.7	0.7	Q	Q	Q	76.8
Electric/LPG/Other	0.4	0.4	Q	Q	Q	83.4
Waterbed Heaters	6.4	6.0	Q	Q	0.3	21.6
1	5.3	5.0	Q	Q	0.3	24.0
2 or More	1.1	1.1	Q	Q	Q	36.1
Waterbed Heaters Used All Year	5.8	5.5	Q	Q	0.2	22.2
1	5.0	4.8	Q	Q	0.2	24.6
2 or More	0.7	0.7	Q	Q	Q	39.3
Oven	67.8	60.5	0.9	1.1	5.2	6.2
Electric	43.3	39.6	0.4	0.7	2.6	9.3
Natural Gas	21.0	18.5	0.5	0.4	1.5	11.6
LPG	3.4	2.4	Q	Q	1.1	24.7
Other	Q	Q	Q	Q	Q	NF
Self-Cleaning Oven	38.2	36.3	0.4	0.6	1.0	9.4
Continuous	8.3	7.8	Q	Q	0.4	17.8
Manual Start	29.9	28.5	0.3	0.4	0.6	10.5
Pumps (Electric)	18.3	17.1	Q	Q	1.0	14.6
Hot Tub or Spa	3.8	3.8	Q	Q	Q	26.8
Swimming Pool	5.2	5.2	Q	Q	Q	21.2
Well Water	12.8	11.7	Q	Q	1.0	19.8
Range	68.1	60.8	0.9	1.2	5.2	6.2
Electric	42.1	38.4	0.4	0.7	2.6	9.4
Natural Gas	22.3	19.8	0.5	0.4	1.5	11.2
LPG	3.7	2.6	Q	Q	1.1	24.2
Other	Q	Q	Q	Q	Q	NF
Refrigerators	68.4	61.1	0.9	1.2	5.2	6.2
1	54.4	47.5	0.8	1.1	5.0	6.9
2 or More	14.0	13.6	Q	Q	0.3	15.3

See footnotes at end of table.

**Table HC5-5a. Appliances by Type of Owner-Occupied Housing Unit,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total Owner- Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.3	0.3	2.6	2.8	1.3	
Most-Used Refrigerator						
Defrost Method						
Frost-Free	63.0	57.0	0.8	1.0	4.1	6.3
Manual	5.4	4.1	Q	Q	1.1	20.0
Type of Refrigerator						
2-Doors (top and bottom)	43.7	38.4	0.6	0.8	3.9	7.2
2-Doors (side-by-side)	18.8	17.7	0.2	0.2	0.7	12.8
Regular (single door)	5.5	4.6	Q	Q	0.6	24.3
Half-Size/Other	0.4	0.3	Q	Q	Q	72.2
Age of Refrigerator						
Less than 2 Years	8.7	7.7	Q	Q	0.9	14.0
2 to 4 Years	14.3	12.9	Q	0.2	1.1	11.0
5 to 9 Years	21.5	19.2	0.4	0.4	1.5	9.8
10 to 19 Years	17.8	16.3	0.2	0.2	1.1	11.5
20 Years or More	5.1	4.3	Q	Q	0.6	16.6
Don't Know	1.0	0.8	Q	Q	Q	61.3
Size of Refrigerator						
Very Small (Less than 11 cf)	0.5	0.3	Q	Q	Q	68.2
Small (11-14 cf)	3.2	2.5	Q	0.1	0.5	18.9
Medium (15-18 cf)	26.4	22.5	0.5	0.5	3.0	9.1
Large (19-22 cf)	37.0	34.4	0.4	0.5	1.6	8.7
Very Large (23 or More cf)	1.3	1.3	Q	Q	Q	34.6
Through-the-Door Ice/Water Service						
Yes	12.4	11.9	Q	Q	0.3	17.0
No	56.1	49.2	0.8	1.1	4.9	6.5
Color Television Sets						
1	67.8	60.5	0.9	1.2	5.2	6.3
2	16.1	13.0	0.2	0.5	2.4	11.4
3	26.7	24.0	0.3	0.5	1.8	8.7
4	15.5	14.5	Q	Q	0.7	11.8
5 or More	7.0	6.6	0.2	Q	0.2	17.4
5 or More	2.5	2.4	Q	Q	Q	27.2
Video Cassette Recorders (VCR's)						
1	61.6	55.2	0.8	0.9	4.6	6.5
2	36.6	31.9	0.5	0.7	3.5	8.2
3 or More	18.9	17.6	0.2	0.2	1.0	12.8
3 or More	6.1	5.7	Q	Q	0.2	19.9
Water Heaters						
Electric	68.5	61.1	0.9	1.2	5.3	6.2
For One Housing Unit	26.3	22.2	Q	0.5	3.5	11.7
For Two or More Units	26.0	22.0	Q	0.4	3.5	12.0
Natural Gas	0.3	0.2	Q	Q	Q	87.3
For One Housing Unit	36.0	33.5	0.7	0.5	1.3	11.2
For Two or More Units	34.8	32.8	0.6	Q	1.3	10.6
Fuel Oil	1.2	0.6	Q	0.4	Q	32.9
For One Housing Unit	3.0	2.8	Q	Q	Q	33.6
For Two or More Units	2.7	2.7	Q	Q	Q	35.2
LPG	0.3	Q	Q	Q	Q	49.4
Other	2.6	2.2	Q	Q	0.4	26.9
No Water Heater	0.4	0.4	Q	Q	Q	85.0
No Water Heater	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table HC5-5a. Appliances by Type of Owner-Occupied Housing Unit,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total Owner- Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.3	0.3	2.6	2.8	1.3	
Water Heater (for one housing unit)	66.5	60.1	0.7	0.5	5.2	6.6
Age						
Less than 2 Years	8.5	7.6	Q	Q	0.8	17.3
2 to 4 Years	12.8	11.4	Q	Q	1.3	10.7
5 to 9 Years	19.5	18.0	0.2	Q	1.2	12.1
10 to 19 Years	16.2	14.9	Q	Q	1.1	11.4
20 Years or More	5.3	4.6	Q	Q	0.6	19.1
Don't Know	2.5	2.2	Q	Q	0.2	22.5
No Separate Heater	1.7	1.6	Q	Q	Q	41.8
No Water Heater	Q	Q	Q	Q	Q	NF
Water Heaters for						
Two or More Units	1.9	1.0	0.2	0.6	Q	21.8
Size						
Small	9.7	7.6	Q	Q	1.8	13.7
Medium	35.5	32.5	0.3	Q	2.5	8.3
Large	17.9	16.9	0.2	Q	0.7	12.4
Don't Know	1.7	1.5	Q	Q	Q	49.5
No Separate Heater	1.7	1.6	Q	Q	Q	41.8
No Water Heater	Q	Q	Q	Q	Q	NF
Water Heaters for						
Two or More Units	1.9	1.0	0.2	0.6	Q	21.8
Other Appliances						
Heated Aquarium	2.7	2.5	Q	Q	0.2	27.0
Microwave Oven	60.0	54.0	0.7	0.9	4.4	6.5
Outdoor Gas Light ²	0.6	0.6	Q	Q	Q	63.1
Rechargeable Tools/ or Appliances	36.0	33.3	0.4	0.3	1.9	8.1
Stereo Equipment	47.3	42.8	0.5	0.7	3.3	7.4

¹ The number of households where the end use is electric air-conditioning excludes households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those latter households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC5-6a. Appliances by Type of Rented Housing Unit,
Million U.S. Households, 1997**

Appliance Types and Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.7	1.3	1.0	2.1	
Total	33.0	12.6	4.7	14.6	1.1	6.3
Households With Electric Air-Conditioning Equipment	21.1	7.5	2.7	10.2	0.7	8.5
Central Equipment Not Used	Q	Q	Q	Q	Q	NF
Room Air Conditioners Not Used ..	0.2	Q	Q	Q	Q	89.9
Households Using Electric Air-Conditioning¹	20.8	7.4	2.7	10.1	0.7	8.5
Type of Electric Air-Conditioning Used						
Central Air-Conditioning ²	11.3	3.7	1.2	6.1	0.3	12.8
Without a Heat Pump	8.7	2.7	1.0	4.8	0.2	15.1
With a Heat Pump	2.6	1.1	Q	1.3	Q	24.2
Room Air-Conditioning	9.4	3.6	1.5	4.0	0.4	10.8
1 Unit	7.1	2.4	1.2	3.2	0.3	12.6
2 Units	2.0	1.0	0.2	0.6	Q	20.7
3 or More Units	0.3	0.2	Q	Q	Q	38.8
Clothes Washer	14.9	9.5	1.7	3.0	0.7	10.2
Clothes Dryer	12.3	8.1	1.1	2.4	0.6	12.1
Electric	10.3	6.5	0.9	2.3	0.6	12.8
Natural Gas	1.9	1.6	0.2	Q	Q	23.9
LPG	Q	Q	Q	Q	Q	NF
Dishwasher	10.6	4.0	0.7	5.8	Q	13.3
Ceiling Fans	12.0	6.2	1.2	4.3	0.3	10.9
1	7.5	2.9	1.0	3.4	0.2	13.0
2	2.3	1.6	0.1	0.6	Q	20.9
3 or more	2.2	1.7	0.1	0.4	Q	23.6
Freezer	3.8	2.7	0.5	0.5	0.2	15.8
1	3.7	2.6	0.5	0.5	0.2	16.0
2 or more	Q	Q	Q	Q	Q	NF
Most-Used Freezer Defrost Method						
Frost-Free	1.3	0.9	Q	0.2	Q	28.5
Manual	2.5	1.8	0.4	0.2	Q	18.5
Type of Freezer						
Upright	1.5	1.2	Q	Q	Q	18.9
Chest	2.3	1.5	0.3	0.4	Q	22.2
Age of Freezer						
Less than 2 Years	0.4	0.3	Q	Q	Q	36.6
2 to 4 Years	0.6	0.3	Q	0.2	Q	35.2
5 to 9 Years	1.1	0.8	0.1	Q	Q	25.9
10 to 19 Years	1.2	0.9	Q	Q	Q	19.7
20 Years or More	0.3	0.2	Q	Q	Q	39.6
Don't Know	0.2	Q	Q	Q	Q	48.3

See footnotes at end of table.

**Table HC5-6a. Appliances by Type of Rented Housing Unit,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.7	1.3	1.0	2.1	
Freezer Size						
Very Small (Less than 11 cf)	0.6	0.3	Q	Q	Q	35.5
Small (11-14 cf)	1.0	0.7	Q	0.1	Q	26.9
Medium (15-18 cf)	1.2	0.8	0.2	0.2	Q	27.9
Large (19-22 cf)	0.9	0.7	Q	Q	Q	28.5
Very Large (23 or More cf)	Q	Q	Q	Q	Q	NF
Heaters (other)						
Hot Tub or Spa	0.2	Q	Q	Q	Q	81.0
Electric	Q	Q	Q	Q	Q	NF
Natural Gas	Q	Q	Q	Q	Q	NF
LPG/Other	Q	Q	Q	Q	Q	NF
Portable Space	3.5	1.8	0.5	1.1	0.2	15.2
Electric	3.1	1.5	0.4	1.0	Q	16.3
Kerosene	0.4	0.3	Q	Q	Q	39.8
Swimming Pool	Q	Q	Q	Q	Q	NF
Natural Gas	Q	Q	Q	Q	Q	NF
Electric/LPG/Other	Q	Q	Q	Q	Q	NF
Waterbed Heaters	2.0	1.1	0.3	0.6	Q	20.3
1	1.7	0.8	0.3	0.6	Q	22.4
2 or More	0.3	0.3	Q	Q	Q	44.7
Waterbed Heaters Used All Year	1.7	0.9	0.2	0.5	Q	23.1
1	1.4	0.7	0.2	0.5	Q	25.2
2 or More	0.3	0.2	Q	Q	Q	47.8
Oven	32.5	12.4	4.6	14.4	1.0	6.3
Electric	19.0	6.5	2.4	9.5	0.6	8.7
Natural Gas	12.7	5.5	2.1	4.9	0.2	10.4
LPG	0.7	0.4	Q	Q	0.3	28.2
Other	Q	Q	Q	Q	Q	NF
Self-Cleaning Oven	6.5	3.5	0.5	2.4	Q	14.0
Continuous	1.7	0.7	Q	0.8	Q	23.8
Manual Start	4.8	2.8	0.3	1.6	Q	15.5
Pumps (Electric)	1.9	1.5	Q	Q	0.3	20.0
Hot Tub or Spa	0.2	Q	Q	Q	Q	81.0
Swimming Pool	0.2	0.2	Q	Q	Q	44.1
Well Water	1.6	1.2	Q	Q	0.3	21.9
Range	32.6	12.4	4.6	14.5	1.1	6.3
Electric	19.0	6.4	2.4	9.5	0.6	8.7
Natural Gas	12.9	5.6	2.2	4.9	0.2	10.4
LPG	0.7	0.4	Q	Q	0.3	27.7
Other	Q	Q	Q	Q	Q	NF
Refrigerators	32.9	12.6	4.7	14.6	1.1	6.3
1	31.6	11.6	4.6	14.3	1.0	6.4
2 or More	1.3	1.0	Q	0.2	Q	22.9

See footnotes at end of table.

**Table HC5-6a. Appliances by Type of Rented Housing Unit,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.7	1.3	1.0	2.1	
Most-Used Refrigerator						
Defrost Method						
Frost-Free	25.1	10.4	3.1	10.9	0.8	7.0
Manual	7.8	2.2	1.6	3.7	0.3	11.4
Type of Refrigerator						
2-Doors (top and bottom)	25.3	9.6	3.6	11.3	0.8	7.5
2-Doors (side-by-side)	2.0	1.2	0.2	0.5	Q	18.6
Regular (single door)	5.4	1.6	0.9	2.6	0.2	14.1
Half-Size/Other	0.3	Q	Q	Q	Q	45.3
Age of Refrigerator						
Less than 2 Years	4.7	1.9	0.6	2.1	Q	14.2
2 to 4 Years	7.1	2.6	1.1	3.3	0.1	12.7
5 to 9 Years	8.8	3.6	1.2	3.6	0.4	10.2
10 to 19 Years	6.3	2.8	0.9	2.4	0.2	12.3
20 Years or More	2.0	0.7	0.3	1.0	Q	20.5
Don't Know	4.0	1.0	0.6	2.2	0.2	14.9
Size of Refrigerator						
Very Small (Less than 11 cf)	0.5	0.1	Q	0.3	Q	30.8
Small (11-14 cf)	4.5	1.1	0.7	2.5	0.2	15.3
Medium (15-18 cf)	19.3	7.0	2.7	8.9	0.7	7.6
Large (19-22 cf)	8.5	4.2	1.2	2.9	0.2	10.4
Very Large (23 or More cf)	Q	Q	Q	Q	Q	NF
Through-the-Door Ice/Water Service						
Yes	0.8	0.7	Q	Q	Q	22.1
No	32.3	11.9	4.7	14.6	1.0	6.4
Color Television Sets						
1	32.3	12.5	4.5	14.3	1.1	6.4
2	16.2	4.7	2.5	8.3	0.6	8.4
3	11.3	4.5	1.4	5.0	0.3	10.0
4	3.9	2.5	0.6	0.8	Q	13.6
5 or More	0.7	0.6	Q	Q	Q	29.5
	0.3	0.2	Q	Q	Q	52.0
Video Cassette Recorders (VCR's)						
1	27.3	10.8	3.6	11.9	1.0	6.4
2	19.7	7.3	2.6	9.2	0.7	7.4
3 or More	6.3	2.7	0.9	2.5	0.2	12.2
	1.2	0.8	Q	0.3	Q	27.8
Water Heaters						
Electric	33.0	12.6	4.7	14.6	1.1	6.3
For One Housing Unit	13.3	4.4	1.7	6.4	0.8	9.8
For Two or More Units	11.8	4.3	1.5	5.2	0.8	10.3
Natural Gas	1.5	Q	0.2	1.2	Q	20.3
For One Housing Unit	16.6	7.4	2.7	6.4	Q	9.4
For Two or More Units	11.7	6.8	1.9	2.9	Q	12.7
Fuel Oil	4.9	0.6	0.8	3.6	Q	17.9
For One Housing Unit	2.1	0.4	0.3	1.5	Q	19.4
For Two or More Units	0.5	0.3	Q	Q	Q	34.7
LPG	1.7	Q	0.2	1.3	Q	19.1
Other	0.6	0.5	Q	Q	0.1	28.3
No Water Heater	0.3	Q	Q	0.3	Q	53.1
	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table HC5-6a. Appliances by Type of Rented Housing Unit,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.7	1.3	1.0	2.1	
Water Heater (for one housing unit)	24.6	11.8	3.5	8.2	1.1	7.6
Age						
Less than 2 Years	2.7	1.6	0.3	0.7	0.2	16.8
2 to 4 Years	4.2	2.1	0.7	1.2	Q	14.6
5 to 9 Years	5.8	2.8	0.9	1.9	0.2	15.8
10 to 19 Years	4.1	2.2	0.4	1.2	0.2	16.5
20 Years or More	1.8	1.0	0.2	0.5	Q	23.3
Don't Know	4.6	1.8	0.8	1.7	0.3	15.1
No Separate Heater	1.3	0.2	0.2	0.9	Q	29.7
No Water Heater	Q	Q	Q	Q	Q	NF
Water Heaters for						
Two or More Units	8.4	0.8	1.2	6.3	Q	14.3
Size						
Small	5.8	2.2	0.8	2.3	0.5	13.2
Medium	11.6	6.5	1.5	3.2	0.5	10.2
Large	3.8	2.3	0.5	0.9	Q	17.9
Don't Know	2.1	0.7	0.5	0.9	Q	22.8
No Separate Heater	1.3	0.2	0.2	0.9	Q	29.7
No Water Heater	Q	Q	Q	Q	Q	NF
Water Heaters for						
Two or More Units	8.4	0.8	1.2	6.3	Q	14.3
Other Appliances						
Heated Aquarium	1.1	0.5	Q	0.5	Q	24.3
Microwave Oven	24.2	9.9	3.1	10.4	0.8	7.2
Outdoor Gas Light ²	Q	Q	Q	Q	Q	NF
Rechargeable Tools/ or Appliances	8.4	4.3	0.8	3.2	0.2	10.9
Stereo Equipment	22.5	9.1	3.0	9.7	0.7	7.2

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC5-7a. Appliances by Four Most Populated States,
Million U.S. Households, 1997**

Appliance Types and Characteristics	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
		0.4	1.3	1.2	1.2	
Total	101.5	6.8	11.5	7.0	5.9	NF
Households With Electric Air-Conditioning Equipment	73.6	4.3	4.8	6.4	5.7	3.5
Central Equipment Not Used	0.3	Q	0.1	(*)	0.1	29.3
Room Air Conditioners Not Used	0.7	Q	Q	Q	0.1	36.9
Households Using Electric Air-Conditioning¹	72.6	4.2	4.6	6.3	5.6	3.3
Type of Electric Air-Conditioning Used						
Central Air-Conditioning ²	47.5	1.3	3.2	4.8	4.9	5.4
Without a Heat Pump	36.9	1.2	2.9	4.1	2.5	10.6
With a Heat Pump	10.6	0.1	0.3	0.7	2.4	21.2
Room Air-Conditioning	25.2	3.0	1.4	1.6	0.7	10.7
1 Unit	14.9	1.6	1.3	0.7	0.5	12.5
2 Units	7.2	1.0	0.1	0.5	0.1	17.8
3 or More Units	3.0	0.5	Q	0.4	0.1	25.7
Clothes Washer	78.5	4.5	7.0	5.1	4.9	4.3
Clothes Dryer	72.2	3.7	6.6	4.8	4.4	4.1
Electric	55.9	2.6	3.5	3.8	4.2	6.2
Natural Gas	15.4	1.1	3.0	1.0	0.2	15.4
LPG	0.8	(*)	Q	Q	Q	34.2
Dishwasher	50.9	3.1	5.5	3.8	3.4	6.1
Ceiling Fans	61.0	3.4	4.7	5.2	4.4	3.6
1	23.6	2.0	2.4	1.0	0.7	7.2
2	14.0	0.6	1.1	1.3	0.9	11.4
3 or more	23.4	0.8	1.2	2.9	2.8	8.2
Freezer	33.7	1.4	1.7	2.1	1.5	8.2
1	30.7	1.3	1.6	1.9	1.4	9.0
2 or more	3.0	Q	Q	0.2	0.1	23.0
Most-Used Freezer Defrost Method						
Frost-Free	10.7	0.5	0.6	0.7	0.6	15.6
Manual	23.0	1.0	1.0	1.4	0.9	7.7
Type of Freezer						
Upright	16.5	0.9	1.4	0.9	1.0	8.1
Chest	17.1	0.5	0.3	1.2	0.4	17.0
Age of Freezer						
Less than 2 Years	2.4	Q	0.1	0.2	Q	26.9
2 to 4 Years	4.2	0.1	0.2	0.3	0.2	28.5
5 to 9 Years	7.5	0.3	0.5	0.5	0.3	13.2
10 to 19 Years	12.3	0.5	0.6	0.8	0.6	13.5
20 Years or More	6.7	0.4	0.3	0.2	Q	24.7
Don't Know	0.5	Q	Q	Q	Q	46.6

See footnotes at end of table.

**Table HC5-7a. Appliances by Four Most Populated States,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
		0.4	1.3	1.2	1.2	
RSE Column Factor:	0.4	1.3	1.2	1.2	1.4	
Freezer Size						
Very Small (Less than 11 cf)	2.7	0.1	0.1	0.2	0.1	32.0
Small (11-14 cf)	6.7	0.2	0.3	0.4	0.2	22.3
Medium (15-18 cf)	13.5	0.5	0.7	0.8	0.6	12.5
Large (19-22 cf)	9.0	0.5	0.4	0.5	0.5	14.9
Very Large (23 or More cf)	1.7	0.1	0.2	Q	Q	21.4
Heaters (other)						
Hot Tub or Spa	4.0	0.2	0.8	0.4	0.5	23.0
Electric	2.7	0.2	0.4	0.2	0.2	28.3
Natural Gas	1.2	Q	0.3	Q	Q	34.6
LPG/Other	0.1	Q	Q	Q	Q	NF
Portable Space	14.1	0.8	1.3	1.0	0.6	11.2
Electric	12.3	0.7	1.3	1.0	0.5	10.6
Kerosene	2.1	Q	Q	Q	Q	24.5
Swimming Pool	1.1	Q	0.2	0.1	Q	31.8
Natural Gas	0.7	(*)	0.2	0.1	Q	33.1
Electric/LPG/Other	0.4	Q	Q	Q	Q	70.4
Waterbed Heaters	8.4	0.4	0.4	0.6	0.6	17.5
1	6.9	0.4	Q	0.5	0.4	20.4
2 or More	1.5	Q	0.1	0.1	0.1	18.1
Waterbed Heaters						
Used All Year	7.4	0.3	0.4	0.5	0.6	19.8
1	6.4	0.3	Q	0.4	0.5	20.1
2 or More	1.0	Q	0.1	0.1	0.1	23.6
Oven	100.3	6.8	11.2	6.9	5.8	NF
Electric	62.3	2.4	4.9	4.2	5.3	3.9
Natural Gas	33.7	3.9	6.1	2.5	0.3	6.9
LPG	4.2	0.5	0.3	0.2	0.2	23.3
Other	Q	Q	Q	Q	Q	NF
Self-Cleaning Oven	44.7	3.0	4.2	2.9	2.8	6.6
Continuous	10.1	0.7	1.0	0.8	0.5	12.7
Manual Start	34.6	2.2	3.2	2.1	2.3	7.6
Pumps (Electric)	20.1	1.3	1.3	0.9	2.1	10.7
Hot Tub or Spa	4.0	0.2	0.8	0.4	0.5	22.5
Swimming Pool	5.5	0.6	0.5	0.3	0.9	15.6
Well Water	14.3	0.7	0.4	0.4	1.7	22.6
Range	100.7	6.8	11.3	6.9	5.9	NF
Electric	61.1	2.4	4.5	3.9	5.3	4.2
Natural Gas	35.2	4.0	6.5	2.7	0.3	6.8
LPG	4.4	0.5	0.3	0.3	0.2	24.6
Other	Q	Q	Q	Q	Q	NF
Refrigerators	101.3	6.8	11.4	7.0	5.9	NF
1	85.9	6.1	9.7	5.9	5.3	1.7
2 or More	15.4	0.8	1.8	1.0	0.7	10.8

See footnotes at end of table.

**Table HC5-7a. Appliances by Four Most Populated States,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.3	1.2	1.2	1.4	
Most-Used Refrigerator						
Defrost Method						
Frost-Free	88.1	5.7	9.6	6.3	5.5	1.3
Manual	13.3	1.1	1.8	0.6	0.4	10.8
Type of Refrigerator						
2-Doors (top and bottom)	69.0	4.9	6.3	4.4	3.8	4.5
2-Doors (side-by-side)	20.7	1.0	3.4	1.8	1.4	11.2
Regular (single door)	10.8	0.8	1.7	0.6	0.7	14.4
Half-Size/Other	0.7	(*)	0.1	Q	Q	34.3
Age of Refrigerator						
Less than 2 Years	13.4	0.9	1.6	1.0	0.7	11.6
2 to 4 Years	21.4	1.6	2.1	1.7	1.0	9.0
5 to 9 Years	30.3	1.8	3.8	2.1	2.0	7.4
10 to 19 Years	24.1	1.6	2.8	1.4	1.5	6.2
20 Years or More	7.1	0.5	0.7	0.4	0.2	15.5
Don't Know	5.0	0.4	0.5	0.3	0.5	18.3
Size of Refrigerator						
Very Small (Less than 11 cf)	0.9	Q	0.1	Q	Q	34.5
Small (11-14 cf)	7.7	0.7	1.3	0.5	0.7	10.7
Medium (15-18 cf)	45.7	3.2	4.0	2.8	2.2	5.2
Large (19-22 cf)	45.5	2.8	5.7	3.5	3.0	5.7
Very Large (23 or More cf)	1.5	Q	0.2	0.1	Q	26.1
Through-the-Door Ice/Water Service						
Yes	13.2	0.6	2.0	1.3	1.1	14.7
No	88.3	6.3	9.5	5.7	4.9	2.7
Color Television Sets						
1	100.2	6.8	11.3	6.8	5.8	NF
2	32.3	2.1	4.0	2.1	1.5	7.5
3	37.9	2.7	4.4	2.6	2.4	4.5
4	19.4	1.3	2.1	1.3	1.1	8.4
5 or More	7.8	0.5	0.6	0.5	0.7	16.6
5 or More	2.8	0.1	0.2	0.2	0.1	24.1
Video Cassette Recorders (VCR's)						
1	88.9	5.9	10.3	6.0	4.8	1.7
2	56.3	4.1	6.7	3.5	2.7	4.2
3 or More	25.2	1.3	2.8	1.9	1.7	7.9
3 or More	7.3	0.5	0.7	0.6	0.5	15.6
Water Heaters						
101.5	6.8	11.5	7.0	5.9	NF	
Electric	39.6	1.0	1.8	2.4	4.7	10.8
For One Housing Unit	37.8	0.9	1.6	2.1	4.6	11.3
For Two or More Units	1.8	Q	0.2	0.3	0.1	27.8
Natural Gas	52.6	3.3	9.3	4.3	0.9	8.0
For One Housing Unit	46.5	2.4	7.9	4.1	0.8	9.6
For Two or More Units	6.2	0.9	1.4	Q	0.2	16.8
Fuel Oil	5.1	2.2	Q	Q	Q	15.5
For One Housing Unit	3.1	0.9	Q	Q	Q	23.9
For Two or More Units	2.0	1.3	Q	Q	Q	14.4
LPG	3.2	0.2	0.3	0.3	0.1	24.5
Other	0.7	Q	Q	Q	Q	57.2
No Water Heater	0.2	(*)	(*)	Q	Q	41.2

See footnotes at end of table.

**Table HC5-7a. Appliances by Four Most Populated States,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
		0.4	1.3	1.2	1.2	
RSE Column Factor:	0.4	1.3	1.2	1.2	1.4	
Water Heater (for one housing unit)	91.1	4.4	9.8	6.5	5.7	2.0
Age						
Less than 2 Years	11.2	0.6	0.9	0.8	0.4	15.4
2 to 4 Years	17.0	0.9	1.4	1.9	1.0	10.7
5 to 9 Years	25.3	1.1	2.7	1.9	2.0	7.8
10 to 19 Years	20.2	0.8	2.4	1.1	1.2	11.0
20 Years or More	7.1	0.2	1.3	0.3	0.3	17.2
Don't Know	7.1	0.2	0.8	0.5	0.7	13.6
No Separate Heater	3.0	0.6	0.3	Q	Q	24.5
No Water Heater	0.2	(*)	(*)	Q	Q	41.2
Water Heaters for						
Two or More Units	10.3	2.4	1.6	0.5	0.2	15.9
Size						
Small	15.5	0.5	1.5	1.3	1.5	11.3
Medium	47.1	2.1	4.7	3.6	2.8	6.5
Large	21.7	1.0	3.0	1.4	1.0	9.5
Don't Know	3.8	0.2	0.5	0.2	Q	24.8
No Separate Heater	3.0	0.6	0.3	Q	Q	24.5
No Water Heater	0.2	(*)	(*)	Q	Q	41.2
Water Heaters for						
Two or More Units	10.3	2.4	1.6	0.5	0.2	15.9
Other Appliances						
Heated Aquarium	3.9	0.3	0.5	0.1	0.2	17.2
Microwave Oven	84.2	5.2	9.4	5.6	5.0	2.1
Outdoor Gas Light ²	0.7	Q	Q	0.1	Q	27.9
Rechargeable Tools/ or Appliances	44.4	2.7	5.0	3.2	2.5	5.1
Stereo Equipment	69.8	4.7	8.4	5.1	4.3	2.0

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

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

cf = Cubic feet.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC5-8a. Appliances by Urban/Rural Location,
Million U.S. Households, 1997**

Appliance Types and Characteristics	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
		0.5	0.9	1.4	1.3	
Total	101.5	48.2	18.2	18.6	16.5	4.0
Households With Electric Air-Conditioning Equipment	73.6	33.7	13.3	15.0	11.6	4.3
Central Equipment Not Used	0.3	0.3	Q	Q	Q	30.8
Room Air Conditioners Not Used	0.7	0.4	0.1	Q	Q	29.6
Households Using Electric Air-Conditioning²	72.6	33.1	13.1	14.8	11.5	4.4
Type of Electric Air-Conditioning Used						
Central Air-Conditioning ³	47.5	20.5	7.8	11.9	7.2	5.5
Without a Heat Pump	36.9	16.4	6.5	9.1	4.9	6.7
With a Heat Pump	10.6	4.1	1.3	2.8	2.4	12.1
Room Air-Conditioning	25.2	12.6	5.4	2.9	4.3	6.9
1 Unit	14.9	7.8	3.0	1.7	2.4	8.9
2 Units	7.2	3.3	1.7	0.8	1.4	10.8
3 or More Units	3.0	1.5	0.6	0.4	0.6	16.8
Clothes Washer	78.5	32.6	14.7	16.4	14.8	4.1
Clothes Dryer	72.2	28.9	13.6	15.8	14.0	4.3
Electric	55.9	20.5	11.2	11.6	12.6	5.1
Natural Gas	15.4	8.2	2.3	4.1	0.8	10.5
LPG	0.8	0.1	0.1	Q	0.6	28.1
Dishwasher	50.9	20.3	8.9	13.4	8.3	5.0
Ceiling Fans	61.0	26.3	10.7	12.6	11.4	4.5
1	23.6	10.5	4.3	4.4	4.4	6.6
2	14.0	6.2	2.7	3.0	2.1	8.0
3 or more	23.4	9.6	3.7	5.2	4.8	6.4
Freezer	33.7	12.0	6.4	6.0	9.3	5.6
1	30.7	11.1	5.8	5.5	8.2	5.9
2 or more	3.0	0.8	0.6	0.4	1.1	13.7
Most-Used Freezer Defrost Method						
Frost-Free	10.7	3.9	2.0	2.0	2.8	8.2
Manual	23.0	8.1	4.4	3.9	6.5	6.3
Type of Freezer						
Upright	16.5	6.3	2.9	3.7	3.7	6.6
Chest	17.1	5.7	3.5	2.3	5.6	7.4
Age of Freezer						
Less than 2 Years	2.4	0.8	0.5	0.3	0.8	16.7
2 to 4 Years	4.2	1.8	0.7	0.6	1.0	14.4
5 to 9 Years	7.5	2.8	1.4	1.4	1.8	10.4
10 to 19 Years	12.3	4.5	2.2	2.1	3.5	7.9
20 Years or More	6.7	1.9	1.6	1.3	1.9	11.7
Don't Know	0.5	0.1	Q	0.1	0.2	33.9

See footnotes at end of table.

**Table HC5-8a. Appliances by Urban/Rural Location,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
		0.5	0.9	1.4	1.3	
RSE Column Factor:	0.5	0.9	1.4	1.3	1.3	
Freezer Size						
Very Small (Less than 11 cf)	2.7	1.2	0.5	0.5	0.5	16.1
Small (11-14 cf)	6.7	2.2	1.4	1.3	1.8	10.8
Medium (15-18 cf)	13.5	5.0	2.5	2.2	3.7	8.4
Large (19-22 cf)	9.0	3.1	1.6	1.6	2.8	9.1
Very Large (23 or More cf)	1.7	0.5	0.3	0.3	0.5	19.9
Heaters (other)						
Hot Tub or Spa	4.0	1.2	0.7	1.2	0.9	15.6
Electric	2.7	0.8	0.5	0.7	0.6	16.0
Natural Gas	1.2	0.3	0.2	0.5	Q	31.4
LPG/Other	0.1	Q	Q	Q	0.1	NF
Portable Space	14.1	5.4	2.7	3.3	2.6	8.4
Electric	12.3	4.9	2.4	2.9	2.1	9.2
Kerosene	2.1	0.7	0.3	0.4	0.6	17.5
Swimming Pool	1.1	0.3	0.1	0.4	0.3	33.7
Natural Gas	0.7	0.2	Q	0.4	Q	43.7
Electric/LPG/Other	0.4	0.1	Q	Q	0.2	43.8
Waterbed Heaters	8.4	3.1	1.8	1.7	1.8	10.8
1	6.9	2.6	1.5	1.3	1.5	12.0
2 or More	1.5	0.5	0.3	0.4	0.3	19.7
Waterbed Heaters						
Used All Year	7.4	2.8	1.5	1.6	1.6	11.0
1	6.4	2.5	1.3	1.4	1.4	12.0
2 or More	1.0	0.3	0.2	0.2	0.2	21.4
Oven	100.3	47.5	18.1	18.5	16.2	4.0
Electric	62.3	26.0	12.5	12.2	11.6	4.6
Natural Gas	33.7	21.1	4.8	6.0	1.9	7.3
LPG	4.2	0.4	0.8	0.3	2.7	18.1
Other	Q	Q	Q	Q	Q	NF
Self-Cleaning Oven	44.7	17.8	8.4	10.8	7.7	5.2
Continuous	10.1	4.2	1.7	2.4	1.8	9.8
Manual Start	34.6	13.6	6.7	8.4	5.9	5.7
Pumps (Electric)	20.1	3.8	2.9	3.6	9.8	8.2
Hot Tub or Spa	4.0	1.2	0.7	1.2	0.9	15.4
Swimming Pool	5.5	1.6	0.7	1.7	1.5	11.9
Well Water	14.3	1.5	1.9	1.8	9.1	12.6
Range	100.7	47.8	18.0	18.5	16.4	4.0
Electric	61.1	25.7	12.3	11.7	11.4	4.7
Natural Gas	35.2	21.7	5.0	6.5	2.0	7.2
LPG	4.4	0.4	0.8	0.3	2.9	17.9
Other	Q	Q	Q	Q	Q	NF
Refrigerators	101.3	48.1	18.2	18.6	16.4	4.0
1	85.9	42.5	15.6	14.5	13.4	4.1
2 or More	15.4	5.6	2.6	4.1	3.0	7.4

See footnotes at end of table.

**Table HC5-8a. Appliances by Urban/Rural Location,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
		0.5	0.9	1.4	1.3	
Most-Used Refrigerator						
Defrost Method						
Frost-Free	88.1	40.5	15.9	17.2	14.5	4.2
Manual	13.3	7.6	2.3	1.4	2.0	8.7
Type of Refrigerator						
2-Doors (top and bottom)	69.0	32.4	13.3	12.5	10.8	3.8
2-Doors (side-by-side)	20.7	8.8	3.2	4.7	4.1	7.2
Regular (single door)	10.8	6.5	1.6	1.3	1.4	11.2
Half-Size/Other	0.7	0.4	0.1	0.1	0.1	29.9
Age of Refrigerator						
Less than 2 Years	13.4	6.5	2.3	2.5	2.2	7.2
2 to 4 Years	21.4	10.0	3.8	4.0	3.6	6.1
5 to 9 Years	30.3	14.2	5.9	5.4	4.8	5.7
10 to 19 Years	24.1	10.9	4.2	4.8	4.2	6.0
20 Years or More	7.1	3.6	1.1	1.0	1.3	9.7
Don't Know	5.0	2.9	0.9	0.9	0.4	16.0
Size of Refrigerator						
Very Small (Less than 11 cf)	0.9	0.5	0.2	0.1	0.2	25.3
Small (11-14 cf)	7.7	4.4	1.4	1.0	0.9	10.3
Medium (15-18 cf)	45.7	21.8	8.8	7.8	7.2	4.3
Large (19-22 cf)	45.5	20.9	7.5	9.2	7.9	5.0
Very Large (23 or More cf)	1.5	0.5	0.3	0.5	0.2	20.0
Through-the-Door Ice/Water Service						
Yes	13.2	5.0	2.1	3.2	2.8	9.2
No	88.3	43.2	16.1	15.4	13.6	4.1
Color Television Sets						
1	100.2	47.4	18.1	18.5	16.2	4.0
2	32.3	16.3	6.4	4.0	5.6	5.4
3	37.9	18.6	6.2	7.2	5.9	4.9
4	19.4	8.4	3.4	4.5	3.0	6.7
5 or More	7.8	3.0	1.6	1.9	1.3	10.4
5 or More	2.8	1.1	0.5	0.8	0.3	16.1
Video Cassette Recorders (VCR's)						
1	88.9	41.3	15.9	17.0	14.7	4.0
2	56.3	26.1	10.5	9.7	10.0	4.3
3 or More	25.2	11.9	4.0	5.5	3.9	6.3
3 or More	7.3	3.2	1.4	1.8	0.9	10.7
Water Heaters						
Electric	101.5	48.2	18.2	18.6	16.5	4.0
For One Housing Unit	39.6	14.9	7.6	6.6	10.5	6.3
For Two or More Units	37.8	13.9	7.4	6.2	10.3	6.4
Natural Gas	1.8	1.0	0.2	0.4	0.2	23.0
For One Housing Unit	52.6	30.5	8.7	10.9	2.5	6.1
For Two or More Units	46.5	25.9	7.9	10.3	2.3	6.5
Fuel Oil	6.2	4.6	0.8	0.6	0.2	15.7
For One Housing Unit	5.1	2.2	1.2	0.9	0.9	13.3
For Two or More Units	3.1	0.6	0.9	0.8	0.8	16.9
LPG	2.0	1.6	0.2	Q	0.1	18.8
Other	3.2	0.3	0.6	0.1	2.2	20.7
No Water Heater	0.7	0.4	Q	0.1	0.2	35.1
No Water Heater	0.2	0.1	Q	Q	Q	54.1

See footnotes at end of table.

**Table HC5-8a. Appliances by Urban/Rural Location,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
RSE Column Factor:	0.5	0.9	1.4	1.3	1.3	
Water Heater (for one housing unit)	91.1	40.8	17.0	17.6	15.8	4.2
Age						
Less than 2 Years	11.2	4.9	2.1	2.1	2.1	8.4
2 to 4 Years	17.0	7.5	3.2	3.1	3.2	6.6
5 to 9 Years	25.3	10.9	4.7	5.6	4.2	6.2
10 to 19 Years	20.2	8.7	3.8	4.0	3.7	7.1
20 Years or More	7.1	3.4	1.5	0.8	1.4	10.6
Don't Know	7.1	4.1	1.1	1.2	0.7	10.9
No Separate Heater	3.0	1.2	0.6	0.7	0.5	17.2
No Water Heater	0.2	0.1	Q	Q	Q	54.1
Water Heaters for						
Two or More Units	10.3	7.4	1.2	1.0	0.6	12.8
Size						
Small	15.5	7.7	2.8	2.0	3.0	7.8
Medium	47.1	21.5	8.9	9.3	7.4	5.1
Large	21.7	8.2	4.1	4.9	4.4	7.1
Don't Know	3.8	2.1	0.6	0.6	0.5	17.3
No Separate Heater	3.0	1.2	0.6	0.7	0.5	17.2
No Water Heater	0.2	0.1	Q	Q	Q	54.1
Water Heaters for						
Two or More Units	10.3	7.4	1.2	1.0	0.6	12.8
Other Appliances						
Heated Aquarium	3.9	1.5	0.7	0.8	0.9	13.3
Microwave Oven	84.2	37.9	15.8	16.4	14.1	4.5
Outdoor Gas Light ³	0.7	0.3	0.1	0.1	0.1	31.4
Rechargeable Tools/ or Appliances	44.4	17.8	8.2	10.0	8.3	4.7
Stereo Equipment	69.8	32.5	12.0	14.8	10.6	4.3

¹ Based on the household respondent's description rather than the Federal Government definition.

² The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

³ Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC5-9a. Appliances by Northeast Census Region,
Million U.S. Households, 1997**

Appliance Types and Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.3	1.5	
Total	101.5	19.7	14.4	5.3	NF
Households With Electric					
Air-Conditioning Equipment	73.6	12.5	9.9	2.6	3.8
Central Equipment Not Used	0.3	Q	Q	Q	40.2
Room Air Conditioners Not Used	0.7	0.3	0.2	Q	29.5
Households Using Electric					
Air-Conditioning¹	72.6	12.2	9.7	2.5	4.2
Type of Electric Air-Conditioning Used					
Central Air-Conditioning ²	47.5	4.4	4.0	0.4	11.2
Without a Heat Pump	36.9	3.9	3.5	0.4	13.6
With a Heat Pump	10.6	0.5	0.4	Q	26.0
Room Air-Conditioning	25.2	7.8	5.7	2.1	7.4
1 Unit	14.9	4.0	2.8	1.2	9.3
2 Units	7.2	2.7	2.1	0.6	10.7
3 or More Units	3.0	1.1	0.8	0.3	19.0
Clothes Washer	78.5	15.0	11.0	4.0	2.2
Clothes Dryer	72.2	13.2	9.7	3.5	2.3
Electric	55.9	9.5	6.6	2.9	5.0
Natural Gas	15.4	3.5	3.0	0.5	15.2
LPG	0.8	0.1	Q	Q	25.9
Dishwasher	50.9	9.6	7.1	2.5	3.9
Ceiling Fans	61.0	10.1	7.7	2.4	2.9
1	23.6	5.1	3.9	1.2	4.4
2	14.0	2.3	1.8	0.6	7.8
3 or more	23.4	2.6	2.0	0.6	8.3
Freezer	33.7	5.1	3.9	1.2	6.4
1	30.7	4.8	3.7	1.1	6.7
2 or more	3.0	0.3	0.3	Q	25.3
Most-Used Freezer					
Defrost Method					
Frost-Free	10.7	1.5	1.1	0.4	6.9
Manual	23.0	3.6	2.8	0.8	7.6
Type of Freezer					
Upright	16.5	2.7	2.1	0.6	5.3
Chest	17.1	2.3	1.8	0.5	11.7
Age of Freezer					
Less than 2 Years	2.4	0.4	0.3	0.1	22.5
2 to 4 Years	4.2	0.5	0.4	0.1	16.5
5 to 9 Years	7.5	1.0	0.7	0.3	14.5
10 to 19 Years	12.3	1.9	1.6	0.4	10.2
20 Years or More	6.7	1.1	0.8	0.2	13.6
Don't Know	0.5	Q	Q	Q	37.3

See footnotes at end of table.

**Table HC5-9a. Appliances by Northeast Census Region,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.3	1.5	
Freezer Size					
Very Small (Less than 11 cf)	2.7	0.6	0.3	0.3	21.1
Small (11-14 cf)	6.7	1.1	0.8	0.2	14.0
Medium (15-18 cf)	13.5	1.8	1.4	0.4	7.6
Large (19-22 cf)	9.0	1.3	1.1	0.3	9.9
Very Large (23 or More cf)	1.7	0.3	0.3	Q	19.2
Heaters (other)					
Hot Tub or Spa	4.0	0.5	0.5	Q	18.3
Electric	2.7	0.5	0.5	Q	20.7
Natural Gas	1.2	Q	Q	Q	50.3
LPG/Other	Q	Q	Q	Q	NF
Portable Space	14.1	2.5	2.0	0.5	9.3
Electric	12.3	2.1	1.7	0.4	9.7
Kerosene	2.1	0.4	0.3	0.1	19.9
Swimming Pool	1.1	0.2	Q	Q	36.8
Natural Gas	0.7	Q	Q	Q	50.7
Electric/LPG/Other	0.4	Q	Q	Q	56.3
Waterbed Heaters	8.4	1.2	0.9	0.3	12.5
1	6.9	1.1	0.8	0.3	13.7
2 or More	1.5	Q	Q	Q	20.8
Waterbed Heaters Used All Year	7.4	1.1	0.8	0.3	14.6
1	6.4	1.0	0.7	0.2	16.6
2 or More	1.0	Q	Q	Q	21.7
Oven	100.3	19.6	14.3	5.3	NF
Electric	62.3	9.7	6.3	3.5	5.5
Natural Gas	33.7	8.9	7.5	1.4	8.6
LPG	4.2	1.0	0.6	0.4	20.6
Other	Q	Q	Q	Q	NF
Self-Cleaning Oven	44.7	9.6	6.8	2.8	4.6
Continuous	10.1	1.9	1.5	0.4	10.4
Manual Start	34.6	7.7	5.2	2.4	5.6
Pumps (Electric)	20.1	5.1	3.4	1.8	9.4
Hot Tub or Spa	4.0	0.6	0.5	Q	17.6
Swimming Pool	5.5	1.5	1.0	0.5	9.3
Well Water	14.3	3.7	2.4	1.4	13.6
Range	100.7	19.7	14.4	5.3	NF
Electric	61.1	9.5	6.1	3.4	5.5
Natural Gas	35.2	9.0	7.6	1.4	8.3
LPG	4.4	1.1	0.7	0.4	19.7
Other	Q	Q	Q	Q	NF
Refrigerators	101.3	19.7	14.4	5.3	NF
1	85.9	16.7	12.2	4.5	1.6
2 or More	15.4	3.0	2.2	0.8	8.6

See footnotes at end of table.

**Table HC5-9a. Appliances by Northeast Census Region,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.3	1.5	
Most-Used Refrigerator					
Defrost Method					
Frost-Free	88.1	16.8	12.4	4.4	1.5
Manual	13.3	2.9	2.0	0.9	6.2
Type of Refrigerator					
2-Doors (top and bottom)	69.0	14.6	10.6	4.0	1.9
2-Doors (side-by-side)	20.7	3.0	2.3	0.7	7.0
Regular (single door)	10.8	1.9	1.4	0.5	10.5
Half-Size/Other	0.7	0.1	Q	Q	33.8
Age of Refrigerator					
Less than 2 Years	13.4	2.4	1.7	0.8	7.2
2 to 4 Years	21.4	4.2	3.1	1.1	6.2
5 to 9 Years	30.3	5.7	4.1	1.6	4.6
10 to 19 Years	24.1	4.8	3.6	1.2	4.5
20 Years or More	7.1	1.5	1.2	0.4	9.9
Don't Know	5.0	1.1	0.7	0.4	16.8
Size of Refrigerator					
Very Small (Less than 11 cf)	0.9	0.3	0.2	Q	22.5
Small (11-14 cf)	7.7	1.7	1.3	0.4	11.1
Medium (15-18 cf)	45.7	9.6	7.0	2.6	2.7
Large (19-22 cf)	45.5	7.8	5.6	2.2	4.3
Very Large (23 or More cf)	1.5	0.3	0.2	Q	21.1
Through-the-Door Ice/Water Service					
Yes	13.2	1.7	1.2	0.5	12.4
No	88.3	18.1	13.2	4.8	1.2
Color Television Sets					
1	100.2	19.5	14.3	5.2	NF
2	32.3	6.3	4.3	2.0	4.4
3	37.9	7.1	5.5	1.6	3.7
4	19.4	4.1	3.1	1.0	5.5
5 or More	7.8	1.5	1.0	0.5	9.8
5 or More	2.8	0.5	0.4	Q	17.6
Video Cassette Recorders (VCR's)					
1	88.9	17.0	12.4	4.6	1.1
2	56.3	11.3	8.4	3.0	2.4
3 or More	25.2	4.2	3.1	1.2	5.0
3 or More	7.3	1.4	1.0	0.4	10.3
Water Heaters					
Electric	101.5	19.7	14.4	5.3	NF
For One Housing Unit	39.6	5.1	3.4	1.7	8.7
For Two or More Units	37.8	4.8	3.3	1.5	8.9
Natural Gas	1.8	0.3	Q	0.2	21.3
For One Housing Unit	52.6	9.1	7.5	1.6	9.2
For Two or More Units	46.5	7.6	6.2	1.4	10.6
Fuel Oil	6.2	1.6	1.3	0.2	15.2
For One Housing Unit	5.1	4.9	3.1	1.8	9.5
For Two or More Units	3.1	2.9	1.5	1.4	11.5
LPG	2.0	2.0	1.5	0.4	14.5
Other	3.2	0.4	0.3	0.1	23.6
No Water Heater	0.7	0.2	Q	Q	44.8
No Water Heater	0.2	Q	Q	Q	70.4

See footnotes at end of table.

**Table HC5-9a. Appliances by Northeast Census Region,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.3	1.5	
Water Heater (for one housing unit)	91.1	15.7	11.3	4.4	2.2
Age					
Less than 2 Years	11.2	2.0	1.4	0.5	9.1
2 to 4 Years	17.0	3.0	2.1	0.8	6.7
5 to 9 Years	25.3	4.1	3.1	1.1	5.7
10 to 19 Years	20.2	2.8	2.3	0.5	7.3
20 Years or More	7.1	1.2	0.8	0.5	10.5
Don't Know	7.1	0.9	0.6	0.3	13.2
No Separate Heater	3.0	1.8	1.1	0.7	14.4
No Water Heater	0.2	Q	Q	Q	70.4
Water Heaters for					
Two or More Units	10.3	4.0	3.1	0.9	9.8
Size					
Small	15.5	2.2	1.6	0.6	7.5
Medium	47.1	8.0	6.1	1.8	5.8
Large	21.7	3.1	2.1	0.9	7.8
Don't Know	3.8	0.7	0.3	0.4	16.7
No Separate Heater	3.0	1.8	1.1	0.7	14.4
No Water Heater	0.2	Q	Q	Q	70.4
Water Heaters for					
Two or More Units	10.3	4.0	3.1	0.9	9.8
Other Appliances					
Heated Aquarium	3.9	0.6	0.5	0.2	14.4
Microwave Oven	84.2	15.5	11.3	4.3	1.5
Outdoor Gas Light ²	0.7	Q	Q	Q	38.5
Rechargeable Tools/ or Appliances	44.4	8.5	6.2	2.3	4.0
Stereo Equipment	69.8	13.2	9.6	3.6	2.0

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC5-10a. Appliances by Midwest Census Region,
Million U.S. Households, 1997**

Appliance Types and Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.3	1.5	
Total	101.5	24.1	16.9	7.2	NF
Households With Electric					
Air-Conditioning Equipment	73.6	18.8	12.5	6.3	2.3
Central Equipment Not Used	0.3	Q	Q	Q	37.3
Room Air Conditioners Not Used	0.7	0.2	0.0	Q	26.8
Households Using Electric					
Air-Conditioning¹	72.6	18.6	12.4	6.3	2.2
Type of Electric Air-Conditioning Used					
Central Air-Conditioning ²	47.5	12.3	8.0	4.3	4.2
Without a Heat Pump	36.9	11.9	7.7	4.2	4.8
With a Heat Pump	10.6	0.4	0.3	Q	23.7
Room Air-Conditioning	25.2	6.3	4.3	2.0	8.1
1 Unit	14.9	4.4	2.9	1.4	9.7
2 Units	7.2	1.5	1.0	0.5	13.5
3 or More Units	3.0	0.4	0.3	0.0	21.4
Clothes Washer	78.5	19.0	12.9	6.1	2.0
Clothes Dryer	72.2	18.2	12.3	5.9	2.4
Electric	55.9	12.1	7.7	4.4	4.2
Natural Gas	15.4	5.8	4.4	1.4	11.3
LPG	0.8	0.4	Q	Q	22.7
Dishwasher	50.9	11.3	7.7	3.6	3.6
Ceiling Fans	61.0	15.3	10.3	5.0	3.6
1	23.6	6.4	4.5	1.9	7.6
2	14.0	3.8	2.5	1.3	5.7
3 or more	23.4	5.1	3.2	1.9	5.5
Freezer	33.7	10.1	6.2	3.9	3.8
1	30.7	9.2	5.7	3.6	4.1
2 or more	3.0	0.8	0.5	Q	11.8
Most-Used Freezer					
Defrost Method					
Frost-Free	10.7	2.6	1.8	0.9	7.6
Manual	23.0	7.4	4.4	3.0	5.0
Type of Freezer					
Upright	16.5	4.1	2.6	1.5	6.3
Chest	17.1	6.0	3.6	2.4	4.8
Age of Freezer					
Less than 2 Years	2.4	0.7	0.5	0.2	15.7
2 to 4 Years	4.2	1.3	0.8	0.5	13.3
5 to 9 Years	7.5	2.1	1.3	0.8	10.3
10 to 19 Years	12.3	3.6	2.4	1.2	6.1
20 Years or More	6.7	2.2	1.2	1.0	11.2
Don't Know	0.5	Q	Q	Q	33.0

See footnotes at end of table.

**Table HC5-10a. Appliances by Midwest Census Region,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.3	1.5	
Freezer Size					
Very Small (Less than 11 cf)	2.7	0.8	0.5	0.3	20.0
Small (11-14 cf)	6.7	2.4	1.5	0.9	10.2
Medium (15-18 cf)	13.5	3.9	2.2	1.6	7.7
Large (19-22 cf)	9.0	2.6	1.6	1.0	8.5
Very Large (23 or More cf)	1.7	0.4	0.3	Q	22.8
Heaters (other)					
Hot Tub or Spa	4.0	0.7	0.6	Q	14.7
Electric	2.7	0.5	0.4	Q	21.0
Natural Gas	1.2	Q	Q	Q	46.6
LPG/Other	Q	Q	Q	Q	NF
Portable Space	14.1	3.4	2.3	1.1	8.2
Electric	12.3	3.2	2.1	1.0	7.7
Kerosene	2.1	0.3	0.3	0.0	22.0
Swimming Pool	1.1	0.0	Q	Q	43.3
Natural Gas	0.7	Q	Q	Q	46.9
Electric/LPG/Other	0.4	Q	Q	Q	52.2
Waterbed Heaters	8.4	2.7	2.0	0.7	11.4
1	6.9	2.3	1.7	0.6	12.7
2 or More	1.5	Q	Q	Q	18.8
Waterbed Heaters Used All Year	7.4	2.4	1.9	0.6	11.9
1	6.4	2.1	1.6	0.5	12.8
2 or More	1.0	Q	Q	Q	19.5
Oven	100.3	23.8	16.8	7.0	NF
Electric	62.3	13.6	9.0	4.6	3.2
Natural Gas	33.7	9.1	7.3	1.8	5.6
LPG	4.2	1.1	0.5	0.6	24.5
Other	Q	Q	Q	Q	NF
Self-Cleaning Oven	44.7	10.8	7.3	3.5	3.7
Continuous	10.1	2.4	1.5	0.9	8.4
Manual Start	34.6	8.4	5.8	2.6	4.8
Pumps (Electric)	20.1	4.9	3.8	1.1	10.3
Hot Tub or Spa	4.0	0.7	0.6	Q	14.4
Swimming Pool	5.5	0.7	0.6	0.0	15.0
Well Water	14.3	4.2	3.3	0.9	13.6
Range	100.7	23.9	16.8	7.1	NF
Electric	61.1	13.4	8.8	4.5	3.5
Natural Gas	35.2	9.5	7.5	2.0	5.8
LPG	4.4	1.1	0.5	0.6	24.5
Other	Q	Q	Q	Q	NF
Refrigerators	101.3	24.0	16.9	7.1	NF
1	85.9	19.7	14.0	5.7	1.5
2 or More	15.4	4.3	2.9	1.5	6.9

See footnotes at end of table.

**Table HC5-10a. Appliances by Midwest Census Region,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.3	1.5	
Most-Used Refrigerator					
Defrost Method					
Frost-Free	88.1	20.5	14.2	6.3	1.9
Manual	13.3	3.5	2.7	0.8	10.9
Type of Refrigerator					
2-Doors (top and bottom)	69.0	17.6	12.2	5.4	2.0
2-Doors (side-by-side)	20.7	4.2	3.2	1.0	7.6
Regular (single door)	10.8	2.0	1.4	0.7	11.3
Half-Size/Other	0.7	0.0	Q	Q	32.0
Age of Refrigerator					
Less than 2 Years	13.4	3.1	2.3	0.8	6.3
2 to 4 Years	21.4	4.6	3.1	1.5	3.2
5 to 9 Years	30.3	7.0	4.9	2.1	5.2
10 to 19 Years	24.1	5.9	4.1	1.8	4.2
20 Years or More	7.1	1.9	1.4	0.5	11.1
Don't Know	5.0	1.4	1.1	0.4	19.2
Size of Refrigerator					
Very Small (Less than 11 cf)	0.9	0.2	0.0	Q	25.3
Small (11-14 cf)	7.7	1.6	1.1	0.5	9.3
Medium (15-18 cf)	45.7	11.3	7.8	3.5	3.5
Large (19-22 cf)	45.5	10.5	7.6	2.9	4.6
Very Large (23 or More cf)	1.5	0.4	0.2	Q	21.6
Through-the-Door Ice/Water Service					
Yes	13.2	2.5	1.9	0.6	11.3
No	88.3	21.6	15.0	6.6	1.3
Color Television Sets					
1	100.2	23.8	16.8	7.0	NF
2	32.3	7.7	5.3	2.4	5.4
3	37.9	8.7	6.3	2.4	4.3
4	19.4	4.9	3.4	1.5	7.7
5 or More	7.8	1.9	1.3	0.6	13.3
5 or More	2.8	0.6	0.5	Q	19.0
Video Cassette Recorders (VCR's)					
1	88.9	21.6	15.1	6.5	1.2
2	56.3	13.6	9.5	4.1	3.5
3 or More	25.2	6.3	4.3	1.9	6.9
3 or More	7.3	1.8	1.3	0.4	12.6
Water Heaters					
Electric	101.5	24.1	16.9	7.2	NF
For One Housing Unit	39.6	6.4	4.1	2.3	8.1
For Two or More Units	37.8	6.0	3.7	2.3	8.4
Natural Gas	1.8	0.4	Q	0.0	26.0
For One Housing Unit	52.6	16.3	12.1	4.2	4.8
For Two or More Units	46.5	14.0	10.2	3.8	5.6
Fuel Oil	6.2	2.2	1.8	0.4	12.3
For One Housing Unit	5.1	0.0	0.0	0.0	16.4
For Two or More Units	3.1	0.0	0.0	0.0	20.5
LPG	2.0	0.0	0.0	0.0	21.3
Other	3.2	1.2	0.6	0.6	18.3
No Water Heater	0.7	0.0	Q	Q	42.4
No Water Heater	0.2	Q	Q	Q	65.2

See footnotes at end of table.

**Table HC5-10a. Appliances by Midwest Census Region,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.3	1.5	
Water Heater (for one housing unit)	91.1	21.3	14.6	6.7	1.8
Age					
Less than 2 Years	11.2	2.7	1.8	0.8	9.6
2 to 4 Years	17.0	3.9	2.6	1.3	6.4
5 to 9 Years	25.3	5.6	3.8	1.8	5.2
10 to 19 Years	20.2	5.4	3.6	1.8	4.5
20 Years or More	7.1	1.6	1.1	0.6	11.0
Don't Know	7.1	1.8	1.5	0.4	13.4
No Separate Heater	3.0	0.0	0.0	0.0	23.0
No Water Heater	0.2	Q	Q	Q	65.2
Water Heaters for					
Two or More Units	10.3	2.8	2.3	0.5	10.6
Size					
Small	15.5	3.4	2.3	1.1	7.6
Medium	47.1	12.2	8.5	3.7	3.4
Large	21.7	4.5	3.1	1.4	7.6
Don't Know	3.8	0.9	0.5	0.5	21.2
No Separate Heater	3.0	0.0	0.0	0.0	23.0
No Water Heater	0.2	Q	Q	Q	65.2
Water Heaters for					
Two or More Units	10.3	2.8	2.3	0.5	10.6
Other Appliances					
Heated Aquarium	3.9	1.0	0.6	0.4	18.6
Microwave Oven	84.2	20.9	14.4	6.5	1.5
Outdoor Gas Light ²	0.7	Q	Q	Q	35.4
Rechargeable Tools/ or Appliances	44.4	11.2	7.8	3.4	3.5
Stereo Equipment	69.8	16.1	11.2	4.9	2.3

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC5-11a. Appliances by South Census Region,
Million U.S. Households, 1997**

Appliance Types and Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.2	1.4	1.4	
Total	101.5	35.9	18.7	6.3	10.8	NF
Households With Electric Air-Conditioning Equipment	73.6	33.4	17.3	6.0	10.1	1.6
Central Equipment Not Used	0.3	Q	Q	Q	Q	39.2
Room Air Conditioners Not Used	0.7	Q	Q	Q	Q	33.9
Households Using Electric Air-Conditioning¹	72.6	33.2	17.2	6.0	10.0	1.6
Type of Electric Air-Conditioning Used						
Central Air-Conditioning ²	47.5	24.9	13.3	4.2	7.4	3.2
Without a Heat Pump	36.9	16.4	7.1	2.9	6.4	6.4
With a Heat Pump	10.6	8.5	6.2	1.3	0.9	12.1
Room Air-Conditioning	25.2	8.3	3.9	1.8	2.6	6.7
1 Unit	14.9	4.2	2.3	0.9	1.1	8.2
2 Units	7.2	2.6	1.1	0.6	1.0	13.2
3 or More Units	3.0	1.5	0.5	0.3	0.6	20.0
Clothes Washer	78.5	29.4	15.6	5.5	8.3	2.1
Clothes Dryer	72.2	26.6	13.6	5.1	7.9	2.5
Electric	55.9	23.8	12.7	4.8	6.4	3.4
Natural Gas	15.4	2.6	0.8	Q	1.5	12.0
LPG	0.8	0.2	Q	Q	Q	35.3
Dishwasher	50.9	18.5	10.0	2.7	5.8	4.0
Ceiling Fans	61.0	25.5	12.7	4.7	8.2	2.6
1	23.6	6.8	3.7	1.4	1.6	6.7
2	14.0	5.7	3.0	0.9	1.9	7.8
3 or more	23.4	13.0	6.0	2.3	4.7	4.2
Freezer	33.7	13.2	6.6	2.6	4.0	4.0
1	30.7	11.9	6.0	2.3	3.5	4.7
2 or more	3.0	1.4	0.5	0.3	0.5	12.7
Most-Used Freezer Defrost Method						
Frost-Free	10.7	4.7	2.5	0.9	1.3	6.5
Manual	23.0	8.5	4.0	1.7	2.7	5.6
Type of Freezer						
Upright	16.5	6.0	3.3	1.0	1.7	6.8
Chest	17.1	7.2	3.3	1.6	2.3	6.9
Age of Freezer						
Less than 2 Years	2.4	1.0	0.5	0.2	0.3	19.2
2 to 4 Years	4.2	1.8	1.0	0.4	0.5	17.1
5 to 9 Years	7.5	3.1	1.5	0.5	1.0	10.1
10 to 19 Years	12.3	5.0	2.3	1.1	1.6	7.7
20 Years or More	6.7	2.1	1.1	0.4	0.6	13.3
Don't Know	0.5	0.2	Q	Q	Q	33.8

See footnotes at end of table.

**Table HC5-11a. Appliances by South Census Region,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.2	1.4	1.4	
Freezer Size						
Very Small (Less than 11 cf)	2.7	0.8	0.4	0.1	0.3	18.3
Small (11-14 cf)	6.7	2.5	1.3	0.5	0.7	12.2
Medium (15-18 cf)	13.5	5.7	2.7	1.2	1.8	7.8
Large (19-22 cf)	9.0	3.6	1.9	0.7	1.0	11.6
Very Large (23 or More cf)	1.7	0.5	0.2	Q	0.2	25.2
Heaters (other)						
Hot Tub or Spa	4.0	1.4	0.8	0.3	0.4	21.9
Electric	2.7	0.9	0.4	0.2	0.3	20.9
Natural Gas	1.2	Q	Q	Q	Q	49.0
LPG/Other	Q	Q	Q	Q	Q	NF
Portable Space	14.1	5.7	3.0	1.2	1.5	8.6
Electric	12.3	4.7	2.3	0.9	1.5	10.5
Kerosene	2.1	1.2	0.8	0.3	Q	15.2
Swimming Pool	1.1	0.5	Q	Q	Q	48.6
Natural Gas	0.7	0.4	Q	Q	Q	49.6
Electric/LPG/Other	0.4	Q	Q	Q	Q	54.9
Waterbed Heaters	8.4	2.9	1.3	0.7	0.9	11.2
1	6.9	2.4	1.1	0.6	0.7	12.4
2 or More	1.5	0.5	0.3	Q	Q	20.8
Waterbed Heaters						
Used All Year	7.4	2.5	1.2	0.6	0.8	11.9
1	6.4	2.2	1.1	0.5	0.7	13.2
2 or More	1.0	0.2	Q	Q	Q	23.3
Oven	100.3	35.4	18.4	6.2	10.7	NF
Electric	62.3	25.9	14.7	4.8	6.4	3.7
Natural Gas	33.7	7.9	2.9	1.0	4.0	10.7
LPG	4.2	1.6	0.7	0.5	0.4	20.5
Other	Q	Q	Q	Q	Q	NF
Self-Cleaning Oven	44.7	15.0	8.1	2.6	4.2	4.5
Continuous	10.1	3.9	1.9	0.8	1.3	10.6
Manual Start	34.6	11.1	6.3	1.8	3.0	5.9
Pumps (Electric)	20.1	6.9	4.8	1.1	1.1	8.8
Hot Tub or Spa	4.0	1.4	0.8	0.3	0.4	21.8
Swimming Pool	5.5	2.4	1.6	0.3	0.5	13.3
Well Water	14.3	4.9	3.8	0.7	0.4	18.1
Range	100.7	35.5	18.5	6.3	10.8	NF
Electric	61.1	25.4	14.7	4.8	6.0	3.7
Natural Gas	35.2	8.5	3.0	1.0	4.4	10.0
LPG	4.4	1.6	0.8	0.5	0.4	20.4
Other	Q	Q	Q	Q	Q	NF
Refrigerators	101.3	35.8	18.7	6.3	10.8	NF
1	85.9	31.1	16.4	5.4	9.4	1.2
2 or More	15.4	4.7	2.3	1.0	1.4	7.6

See footnotes at end of table.

**Table HC5-11a. Appliances by South Census Region,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.2	1.4	1.4	
Most-Used Refrigerator						
Defrost Method						
Frost-Free	88.1	32.3	16.8	5.8	9.8	1.0
Manual	13.3	3.6	1.9	0.6	1.0	8.0
Type of Refrigerator						
2-Doors (top and bottom)	69.0	23.5	12.1	4.3	7.1	3.0
2-Doors (side-by-side)	20.7	8.0	3.9	1.4	2.7	7.6
Regular (single door)	10.8	4.1	2.5	0.7	0.9	13.0
Half-Size/Other	0.7	0.2	Q	Q	Q	36.7
Age of Refrigerator						
Less than 2 Years	13.4	4.8	2.5	0.7	1.6	7.1
2 to 4 Years	21.4	8.6	4.4	1.6	2.7	5.3
5 to 9 Years	30.3	10.6	5.5	2.0	3.1	4.7
10 to 19 Years	24.1	8.1	4.4	1.4	2.3	6.2
20 Years or More	7.1	2.2	1.0	0.5	0.7	7.9
Don't Know	5.0	1.6	1.0	0.2	0.4	16.6
Size of Refrigerator						
Very Small (Less than 11 cf)	0.9	0.2	Q	Q	Q	32.2
Small (11-14 cf)	7.7	2.5	1.4	0.3	0.8	11.7
Medium (15-18 cf)	45.7	16.2	8.8	2.9	4.6	3.2
Large (19-22 cf)	45.5	16.5	8.2	3.0	5.2	3.4
Very Large (23 or More cf)	1.5	0.4	Q	Q	0.2	18.3
Through-the-Door Ice/Water Service						
Yes	13.2	5.9	2.9	1.0	2.0	8.0
No	88.3	30.0	15.8	5.3	8.9	1.5
Color Television Sets						
1	100.2	35.4	18.5	6.3	10.6	NF
2	32.3	10.5	5.2	2.0	3.3	4.5
3	37.9	14.0	7.2	2.5	4.3	3.8
4	19.4	6.6	3.7	1.1	1.9	5.8
5 or More	7.8	3.2	1.8	0.5	0.9	10.1
5 or More	2.8	1.2	0.6	0.2	0.3	16.0
Video Cassette Recorders (VCR's)						
1	88.9	30.9	16.1	5.5	9.3	1.4
2	56.3	18.9	9.7	3.5	5.7	3.0
3 or More	25.2	9.3	5.0	1.5	2.8	7.0
3 or More	7.3	2.7	1.4	0.4	0.9	12.8
Water Heaters						
Electric	101.5	35.9	18.7	6.3	10.8	NF
For One Housing Unit	39.6	20.9	12.8	4.2	3.9	6.1
For Two or More Units	37.8	20.3	12.6	4.1	3.6	6.5
Natural Gas	1.8	0.7	0.2	Q	0.4	21.8
For One Housing Unit	52.6	13.4	5.0	1.9	6.6	8.1
For Two or More Units	46.5	12.9	4.7	1.8	6.4	8.2
Fuel Oil	6.2	0.5	0.3	Q	Q	25.0
For One Housing Unit	5.1	Q	Q	Q	Q	17.2
For Two or More Units	3.1	Q	Q	Q	Q	21.5
LPG	2.0	Q	Q	Q	Q	22.4
Other	3.2	1.1	0.5	0.3	0.3	19.0
No Water Heater	0.7	Q	Q	Q	Q	44.6
No Water Heater	0.2	Q	Q	Q	Q	68.6

See footnotes at end of table.

**Table HC5-11a. Appliances by South Census Region,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.2	1.4	1.4	
Water Heater (for one housing unit)	91.1	34.6	18.1	6.2	10.3	1.0
Age						
Less than 2 Years	11.2	4.2	2.2	0.9	1.1	7.8
2 to 4 Years	17.0	6.9	3.1	1.2	2.5	7.5
5 to 9 Years	25.3	10.3	5.7	1.6	2.9	5.5
10 to 19 Years	20.2	7.5	3.8	1.4	2.2	6.0
20 Years or More	7.1	2.4	1.1	0.6	0.7	11.9
Don't Know	7.1	3.0	1.8	0.4	0.8	11.4
No Separate Heater	3.0	0.4	0.3	Q	Q	29.6
No Water Heater	0.2	Q	Q	Q	Q	68.6
Water Heaters for						
Two or More Units	10.3	1.2	0.5	Q	0.6	19.8
Size						
Small	15.5	7.1	3.6	1.3	2.2	8.5
Medium	47.1	18.0	9.2	3.0	5.7	3.7
Large	21.7	7.9	4.3	1.7	2.0	9.2
Don't Know	3.8	1.3	0.8	Q	0.3	24.8
No Separate Heater	3.0	0.4	0.3	Q	Q	29.6
No Water Heater	0.2	Q	Q	Q	Q	68.6
Water Heaters for						
Two or More Units	10.3	1.2	0.5	Q	0.6	19.8
Other Appliances						
Heated Aquarium	3.9	1.2	0.7	0.3	0.2	12.3
Microwave Oven	84.2	29.6	15.7	5.0	8.9	2.8
Outdoor Gas Light ²	0.7	0.2	Q	Q	Q	33.9
Rechargeable Tools/ or Appliances	44.4	15.0	7.7	2.7	4.5	3.5
Stereo Equipment	69.8	24.3	12.9	4.1	7.4	1.5

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC5-12a. Appliances by West Census Region,
Million U.S. Households, 1997**

Appliance Types and Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.6	1.3	
Total	101.5	21.8	6.2	15.6	NF
Households With Electric					
Air-Conditioning Equipment	73.6	8.9	3.0	5.9	6.9
Central Equipment Not Used	0.3	0.2	Q	Q	35.7
Room Air Conditioners Not Used	0.7	Q	Q	Q	35.8
Households Using Electric					
Air-Conditioning¹	72.6	8.7	2.9	5.7	6.9
Type of Electric Air-Conditioning Used					
Central Air-Conditioning ²	47.5	5.9	2.1	3.8	7.9
Without a Heat Pump	36.9	4.7	1.6	3.1	10.6
With a Heat Pump	10.6	1.1	0.5	0.7	13.1
Room Air-Conditioning	25.2	2.8	0.8	1.9	11.3
1 Unit	14.9	2.3	0.6	1.6	12.7
2 Units	7.2	0.4	0.2	0.3	15.4
3 or More Units	3.0	Q	Q	Q	23.1
Clothes Washer	78.5	15.2	4.7	10.4	3.4
Clothes Dryer	72.2	14.2	4.3	9.9	3.9
Electric	55.9	10.5	3.8	6.7	4.5
Natural Gas	15.4	3.6	0.5	3.1	9.4
LPG	0.8	Q	Q	Q	31.7
Dishwasher	50.9	11.6	3.5	8.1	4.5
Ceiling Fans	61.0	10.0	3.8	6.3	4.0
1	23.6	5.3	2.0	3.4	7.4
2	14.0	2.1	0.6	1.5	8.5
3 or more	23.4	2.6	1.2	1.4	10.1
Freezer	33.7	5.3	2.1	3.2	5.5
1	30.7	4.8	1.9	2.9	5.3
2 or more	3.0	0.5	0.2	0.2	19.1
Most-Used Freezer					
Defrost Method					
Frost-Free	10.7	1.9	0.8	1.1	10.1
Manual	23.0	3.4	1.3	2.1	6.9
Type of Freezer					
Upright	16.5	3.7	1.2	2.5	6.1
Chest	17.1	1.6	0.9	0.7	10.9
Age of Freezer					
Less than 2 Years	2.4	0.3	0.1	0.1	24.8
2 to 4 Years	4.2	0.6	0.3	0.3	17.2
5 to 9 Years	7.5	1.4	0.6	0.8	11.5
10 to 19 Years	12.3	1.8	0.7	1.1	9.1
20 Years or More	6.7	1.2	0.4	0.8	15.3
Don't Know	0.5	Q	Q	Q	38.4

See footnotes at end of table.

**Table HC5-12a. Appliances by West Census Region,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.6	1.3	
Freezer Size					
Very Small (Less than 11 cf)	2.7	0.5	0.2	0.3	17.7
Small (11-14 cf)	6.7	0.8	0.3	0.5	13.0
Medium (15-18 cf)	13.5	2.1	0.8	1.3	9.3
Large (19-22 cf)	9.0	1.5	0.6	0.9	12.8
Very Large (23 or More cf)	1.7	0.4	Q	0.3	15.4
Heaters (other)					
Hot Tub or Spa	4.0	1.3	0.3	1.0	11.5
Electric	2.7	0.8	0.2	0.6	12.3
Natural Gas	1.2	0.4	Q	0.4	24.3
LPG/Other	Q	Q	Q	Q	NF
Portable Space	14.1	2.5	0.7	1.7	9.1
Electric	12.3	2.3	0.7	1.7	9.9
Kerosene	2.1	Q	Q	Q	20.2
Swimming Pool	1.1	0.3	Q	0.2	34.8
Natural Gas	0.7	0.2	Q	0.2	40.2
Electric/LPG/Other	0.4	Q	Q	Q	58.0
Waterbed Heaters	8.4	1.5	0.9	0.7	16.1
1	6.9	1.2	0.7	0.5	18.9
2 or More	1.5	0.3	0.2	0.2	19.7
Waterbed Heaters Used All Year	7.4	1.4	0.8	0.7	15.9
1	6.4	1.1	0.6	0.5	19.4
2 or More	1.0	0.3	0.1	0.2	17.3
Oven	100.3	21.4	6.1	15.3	NF
Electric	62.3	13.1	4.3	8.8	3.3
Natural Gas	33.7	7.8	1.6	6.2	6.2
LPG	4.2	0.5	0.2	0.3	20.3
Other	Q	Q	Q	Q	NF
Self-Cleaning Oven	44.7	9.3	2.9	6.4	4.4
Continuous	10.1	1.8	0.4	1.4	11.7
Manual Start	34.6	7.5	2.6	4.9	4.4
Pumps (Electric)	20.1	3.1	1.1	2.0	11.0
Hot Tub or Spa	4.0	1.3	0.3	1.0	11.4
Swimming Pool	5.5	0.9	0.4	0.5	15.1
Well Water	14.3	1.5	0.6	0.8	18.9
Range	100.7	21.5	6.1	15.4	NF
Electric	61.1	12.7	4.3	8.4	3.4
Natural Gas	35.2	8.2	1.6	6.7	6.2
LPG	4.4	0.6	0.2	0.4	22.5
Other	Q	Q	Q	Q	NF
Refrigerators	101.3	21.7	6.2	15.6	NF
1	85.9	18.4	5.3	13.1	1.3
2 or More	15.4	3.3	0.8	2.5	7.4

See footnotes at end of table.

**Table HC5-12a. Appliances by West Census Region,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.6	1.3	
Most-Used Refrigerator					
Defrost Method					
Frost-Free	88.1	18.5	5.4	13.1	1.4
Manual	13.3	3.3	0.8	2.5	8.4
Type of Refrigerator					
2-Doors (top and bottom)	69.0	13.2	4.1	9.1	3.3
2-Doors (side-by-side)	20.7	5.5	1.3	4.2	7.6
Regular (single door)	10.8	2.8	0.6	2.1	12.2
Half-Size/Other	0.7	0.2	Q	0.2	28.6
Age of Refrigerator					
Less than 2 Years	13.4	3.1	0.9	2.2	6.7
2 to 4 Years	21.4	4.0	1.1	2.9	5.9
5 to 9 Years	30.3	7.0	1.8	5.2	5.3
10 to 19 Years	24.1	5.3	1.6	3.8	3.7
20 Years or More	7.1	1.4	0.4	1.0	12.2
Don't Know	5.0	0.9	0.3	0.6	18.2
Size of Refrigerator					
Very Small (Less than 11 cf)	0.9	0.2	Q	0.2	29.1
Small (11-14 cf)	7.7	2.0	0.4	1.5	8.8
Medium (15-18 cf)	45.7	8.6	2.6	6.0	4.3
Large (19-22 cf)	45.5	10.7	3.0	7.6	4.1
Very Large (23 or More cf)	1.5	0.4	Q	0.3	21.8
Through-the-Door Ice/Water Service					
Yes	13.2	3.1	0.7	2.4	8.3
No	88.3	18.7	5.5	13.2	1.8
Color Television Sets					
1	100.2	21.4	6.1	15.3	NF
2	32.3	7.9	2.2	5.7	4.4
3	37.9	8.1	2.3	5.8	3.3
4	19.4	3.8	1.0	2.8	5.6
5 or More	7.8	1.2	0.4	0.8	11.3
5 or More	2.8	0.5	0.2	0.2	17.2
Video Cassette Recorders (VCR's)					
1	88.9	19.4	5.5	13.9	0.9
2	56.3	12.5	3.5	9.0	2.9
3 or More	25.2	5.5	1.5	3.9	6.2
3 or More	7.3	1.5	0.5	0.9	10.2
Water Heaters					
Electric	101.5	21.8	6.2	15.6	NF
For One Housing Unit	39.6	7.2	2.1	5.1	6.3
For Two or More Units	37.8	6.8	2.0	4.8	5.9
Natural Gas	1.8	0.4	Q	0.3	26.7
For One Housing Unit	52.6	13.9	3.8	10.0	3.4
For Two or More Units	46.5	12.0	3.4	8.6	4.6
Fuel Oil	6.2	1.9	0.4	1.4	17.6
For One Housing Unit	5.1	Q	Q	Q	18.2
For Two or More Units	3.1	Q	Q	Q	22.8
LPG	2.0	Q	Q	Q	23.7
Other	3.2	0.5	Q	0.4	20.0
No Water Heater	0.7	0.2	Q	Q	38.7
No Water Heater	0.2	Q	Q	Q	72.4

See footnotes at end of table.

**Table HC5-12a. Appliances by West Census Region,
Million U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.6	1.3	
Water Heater (for one housing unit)	91.1	19.4	5.6	13.8	1.8
Age					
Less than 2 Years	11.2	2.4	1.0	1.4	11.5
2 to 4 Years	17.0	3.2	1.1	2.1	6.3
5 to 9 Years	25.3	5.3	1.4	3.9	6.4
10 to 19 Years	20.2	4.5	1.3	3.2	8.9
20 Years or More	7.1	1.9	0.3	1.6	11.2
Don't Know	7.1	1.5	0.4	1.1	12.5
No Separate Heater	3.0	0.6	Q	0.6	30.8
No Water Heater	0.2	Q	Q	Q	72.4
Water Heaters for					
Two or More Units	10.3	2.3	0.6	1.8	15.3
Size					
Small	15.5	2.8	1.0	1.8	8.4
Medium	47.1	9.0	2.7	6.3	4.1
Large	21.7	6.1	1.6	4.6	7.1
Don't Know	3.8	0.8	0.3	0.6	18.0
No Separate Heater	3.0	0.6	Q	0.6	30.8
No Water Heater	0.2	Q	Q	Q	72.4
Water Heaters for					
Two or More Units	10.3	2.3	0.6	1.8	15.3
Other Appliances					
Heated Aquarium	3.9	1.0	0.3	0.8	13.5
Microwave Oven	84.2	18.2	5.2	13.0	1.5
Outdoor Gas Light ²	0.7	Q	Q	Q	39.6
Rechargeable Tools/ or Appliances	44.4	9.7	2.9	6.8	4.2
Stereo Equipment	69.8	16.2	4.6	11.7	1.6

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

1997 Housing Characteristics Tables

Appliances Tables

(Percent of U.S. Households; 48 pages, 144 kb)

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These data are from the 1997 Residential Energy Consumption Survey (RECS) which provides information on the use of energy in residential housing units in the United States. The RECS is a national statistical survey that collects data for occupied primary housing units. RECS was first conducted in 1978; the sixth and most recent survey was conducted in 1997 RECS. The data were collected from a sample of 5,900 housing units statistically selected to represent the 101.5 million units in the United States. The 1997 data are available for the four Census regions, the nine Census divisions, and for the four most populous States--California, Florida, New York, and Texas.

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**Table HC5-1b. Appliances by Climate Zone,
Percent of U.S. Households, 1997**

Appliance Types and Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.4	1.0	1.1	1.3	1.1	
Total	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Households With Electric							
Air-Conditioning Equipment	72.5	56.9	66.3	79.1	62.5	89.0	3.5
Central Equipment Not Used	0.3	Q	Q	Q	Q	Q	40.0
Room Air Conditioners Not Used ..	0.7	Q	1.3	Q	Q	Q	28.1
Households Using Electric							
Air-Conditioning²	71.6	56.1	65.0	78.4	61.6	88.2	3.6
Type of Electric Air-Conditioning Used							
Central Air-Conditioning ³	46.8	31.1	37.5	46.0	43.1	69.0	6.0
Without a Heat Pump	36.4	29.6	35.1	33.2	29.5	50.1	8.6
With a Heat Pump	10.4	1.5	2.5	12.8	13.7	18.9	17.7
Room Air-Conditioning	24.8	24.9	27.5	32.4	18.5	19.2	7.9
1 Unit	14.7	18.8	17.7	16.3	12.9	9.0	9.2
2 Units	7.1	5.4	7.0	11.2	4.4	6.2	12.8
3 or More Units	3.0	Q	2.7	4.9	1.3	3.9	19.2
Clothes Washer	77.4	85.5	78.3	77.4	72.6	77.0	2.4
Clothes Dryer	71.2	82.6	73.5	70.2	66.1	68.8	2.7
Electric	55.1	64.2	51.0	57.0	51.2	58.0	4.2
Natural Gas	15.2	16.0	21.6	12.2	14.6	10.3	11.1
LPG	0.8	2.4	0.9	0.9	Q	Q	28.8
Dishwasher	50.2	47.4	51.6	50.3	46.6	52.5	4.2
Ceiling Fans	60.1	58.4	56.8	57.9	53.9	72.7	3.5
1	23.3	29.3	27.7	23.9	19.6	17.7	6.1
2	13.8	14.8	13.3	13.9	12.9	14.7	7.8
3 or more	23.0	14.3	15.7	20.1	21.3	40.4	6.8
Freezer	33.2	49.1	33.5	31.7	28.7	31.4	6.5
1	30.2	44.2	30.7	29.7	26.6	27.7	6.6
2 or more	2.9	4.9	2.9	2.0	2.1	3.7	16.1
Most-Used Freezer							
Defrost Method							
Frost-Free	10.5	12.4	10.0	10.4	10.7	10.4	8.5
Manual	22.6	36.7	23.5	21.3	18.0	21.0	8.0
Type of Freezer							
Upright	16.3	20.4	16.2	16.4	15.0	15.7	6.6
Chest	16.9	28.7	17.3	15.4	13.7	15.7	10.5
Age of Freezer							
Less than 2 Years	2.4	4.0	2.7	1.4	1.4	3.1	19.1
2 to 4 Years	4.1	4.5	4.3	3.7	4.7	3.6	17.8
5 to 9 Years	7.4	10.1	6.9	6.8	7.6	7.4	11.5
10 to 19 Years	12.2	17.0	11.6	12.8	10.5	11.6	9.0
20 Years or More	6.6	13.0	7.4	6.3	4.2	5.2	13.3
Don't Know	0.5	Q	Q	0.8	Q	Q	31.0

See footnotes at end of table.

**Table HC5-1b. Appliances by Climate Zone,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.4	1.0	1.1	1.3	1.1	
Freezer Size							
Very Small (Less than 11 cf)	2.7	4.1	3.2	2.5	1.5	2.6	17.5
Small (11-14 cf)	6.6	11.6	6.5	6.8	5.6	5.4	11.6
Medium (15-18 cf)	13.3	19.2	12.0	13.2	11.6	13.9	10.1
Large (19-22 cf)	8.9	11.9	9.6	7.9	8.7	8.0	10.9
Very Large (23 or More cf)	1.7	2.3	2.2	1.2	1.4	1.6	21.4
Heaters (other)							
Hot Tub or Spa	3.9	2.7	3.7	3.6	4.2	4.8	15.6
Electric	2.6	2.2	2.5	3.2	2.7	2.3	18.4
Natural Gas	1.1	Q	1.0	Q	1.4	Q	28.6
LPG/Other	Q	Q	Q	Q	Q	Q	NF
Portable Space	13.9	16.6	12.8	16.3	13.5	12.1	7.7
Electric	12.1	15.3	11.3	13.6	11.1	11.3	8.2
Kerosene	2.0	1.7	1.7	3.0	2.7	1.0	20.4
Swimming Pool	1.1	Q	1.0	Q	1.1	2.1	35.5
Natural Gas	0.7	Q	Q	Q	Q	Q	50.3
Electric/LPG/Other	0.4	Q	Q	Q	Q	Q	56.0
Waterbed Heaters	8.3	11.9	11.6	6.4	4.9	7.5	12.0
1	6.8	10.1	9.8	5.0	4.2	5.8	14.2
2 or More	1.4	1.7	1.7	1.4	Q	1.6	21.4
Waterbed Heaters							
Used All Year	7.3	10.8	10.5	5.3	4.3	6.6	12.4
1	6.4	9.5	9.1	4.5	3.7	5.7	14.6
2 or More	1.0	Q	1.4	0.8	Q	0.9	22.8
Oven	98.8	98.9	99.2	98.9	98.2	98.7	NF
Electric	61.4	70.9	56.7	58.7	58.3	68.9	3.6
Natural Gas	33.3	19.6	39.0	36.5	36.0	26.0	7.4
LPG	4.1	8.3	3.5	3.7	3.9	3.6	23.2
Other	Q	Q	Q	Q	Q	Q	NF
Self-Cleaning Oven	44.1	49.4	48.9	44.1	38.0	41.0	4.1
Continuous	9.9	8.8	9.2	11.4	9.5	10.2	9.2
Manual Start	34.1	40.5	39.7	32.7	28.5	30.9	5.0
Pumps (Electric)	19.8	27.9	22.5	19.5	14.1	18.6	8.8
Hot Tub or Spa	4.0	2.9	3.7	3.7	4.2	4.8	15.1
Swimming Pool	5.4	2.7	5.1	5.2	3.4	8.8	13.9
Well Water	14.1	25.2	17.1	13.7	8.5	11.1	13.8
Range	99.2	99.6	99.4	99.1	98.9	99.1	NF
Electric	60.2	70.2	56.0	57.8	56.0	67.4	3.8
Natural Gas	34.7	20.8	39.8	37.2	38.7	27.8	7.3
LPG	4.3	8.7	3.6	4.0	4.2	3.8	22.7
Other	Q	Q	Q	Q	Q	Q	NF
Refrigerators	99.8	99.7	100.0	99.9	99.7	99.8	NF
1	84.7	82.2	82.4	85.4	86.4	86.5	1.3
2 or More	15.2	17.5	17.6	14.5	13.3	13.3	7.4

See footnotes at end of table.

**Table HC5-1b. Appliances by Climate Zone,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.4	1.0	1.1	1.3	1.1	
Most-Used Refrigerator							
Defrost Method							
Frost-Free	86.8	83.9	85.0	86.8	86.2	90.8	1.2
Manual	13.1	15.8	15.0	13.1	13.6	9.0	8.1
Type of Refrigerator							
2-Doors (top and bottom)	68.0	76.1	71.4	71.7	58.8	64.4	2.5
2-Doors (side-by-side)	20.4	14.1	18.9	16.9	24.4	25.0	7.4
Regular (single door)	10.7	8.4	8.9	11.0	15.6	9.2	12.7
Half-Size/Other	0.7	Q	0.7	Q	0.9	1.0	32.0
Age of Refrigerator							
Less than 2 Years	13.2	11.8	13.7	12.4	14.0	13.4	7.3
2 to 4 Years	21.0	16.7	20.2	21.2	22.6	22.4	5.3
5 to 9 Years	29.9	33.4	27.4	31.0	29.8	30.3	4.9
10 to 19 Years	23.8	24.4	24.4	24.3	24.0	22.1	4.6
20 Years or More	7.0	9.6	7.9	5.9	7.1	5.7	9.3
Don't Know	5.0	3.8	6.5	5.1	2.1	5.8	17.3
Size of Refrigerator							
Very Small (Less than 11 cf)	0.9	Q	0.9	1.1	1.1	Q	24.3
Small (11-14 cf)	7.6	6.3	6.9	6.0	9.9	8.8	9.4
Medium (15-18 cf)	45.0	48.0	46.2	50.7	40.2	40.7	3.4
Large (19-22 cf)	44.8	42.9	44.4	40.7	47.3	48.1	4.1
Very Large (23 or More cf)	1.5	Q	1.5	1.4	1.3	1.7	19.7
Through-the-Door Ice/Water Service							
Yes	13.0	6.8	11.3	9.8	15.6	18.6	9.7
No	87.0	93.2	88.7	90.2	84.4	81.4	1.3
Color Television Sets							
1	98.7	98.1	99.1	98.9	98.5	98.4	NF
2	31.8	38.9	32.2	29.3	32.0	30.8	5.0
3	37.4	34.6	35.7	37.4	40.7	37.6	3.6
4	19.1	14.2	21.8	19.7	17.8	18.3	6.0
5	7.7	8.7	7.2	8.5	5.7	8.6	11.0
5 or More	2.7	1.8	2.2	4.0	2.2	3.0	18.2
Video Cassette Recorders (VCR's)							
1	87.6	88.2	88.9	87.7	88.2	84.9	1.3
2	55.5	59.9	56.5	56.0	57.0	50.7	3.0
3 or More	24.9	23.4	24.2	24.6	25.2	26.4	6.4
3 or More	7.2	4.8	8.1	7.2	6.0	7.9	11.0
Water Heaters							
Electric	100.0	100.0	100.0	100.0	100.0	100.0	NE
For One Housing Unit	39.1	39.6	27.5	40.1	38.9	52.5	7.0
For Two or More Units	37.3	37.4	25.7	38.6	37.6	50.1	7.3
Natural Gas	1.8	2.2	1.8	1.5	1.3	2.4	24.0
For One Housing Unit	51.9	45.4	63.4	43.5	57.4	43.8	6.1
For Two or More Units	45.8	39.2	55.4	36.6	50.8	41.4	6.7
Fuel Oil	6.1	6.2	8.0	6.9	6.6	2.3	17.9
For One Housing Unit	5.1	8.1	5.7	12.4	Q	Q	19.1
For Two or More Units	3.1	6.0	4.7	5.7	Q	Q	23.0
LPG	2.0	Q	1.0	6.7	Q	Q	23.0
Other	3.2	5.5	3.0	3.2	3.3	2.3	22.3
No Water Heater	0.7	Q	Q	Q	Q	1.0	42.0
0.2	Q	Q	Q	Q	Q	Q	69.9

See footnotes at end of table.

**Table HC5-1b. Appliances by Climate Zone,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.4	1.0	1.1	1.3	1.1	
Water Heater (for one housing unit)	89.7	88.6	88.9	84.5	91.8	94.8	1.5
Age							
Less than 2 Years	11.1	10.4	12.1	11.0	10.8	10.3	9.5
2 to 4 Years	16.8	16.1	17.9	13.4	16.7	19.0	6.7
5 to 9 Years	25.0	22.9	23.9	23.5	26.0	27.7	5.3
10 to 19 Years	19.9	23.5	17.5	20.1	20.2	21.2	6.9
20 Years or More	7.0	7.8	6.6	5.0	10.5	6.3	11.7
Don't Know	7.0	3.8	7.6	5.5	6.6	9.6	12.1
No Separate Heater	2.9	4.2	3.3	6.0	1.0	0.6	26.9
No Water Heater	0.2	Q	Q	Q	Q	Q	69.9
Water Heaters for Two or More Units	10.1	11.4	11.1	15.4	8.0	4.8	14.4
Size							
Small	15.3	12.5	12.9	12.9	15.7	21.5	8.8
Medium	46.4	48.3	47.4	40.3	49.2	48.2	4.0
Large	21.3	21.1	20.3	22.1	23.6	20.1	7.6
Don't Know	3.7	2.6	5.0	3.2	2.2	4.4	20.1
No Separate Heater	2.9	4.2	3.3	6.0	1.0	0.6	26.9
No Water Heater	0.2	Q	Q	Q	Q	Q	69.9
Water Heaters for Two or More Units	10.1	11.4	11.1	15.4	8.0	4.8	14.4
Other Appliances							
Heated Aquarium	3.8	4.5	4.0	3.7	4.1	3.2	13.9
Microwave Oven	83.0	90.5	83.9	83.6	81.3	79.5	1.6
Outdoor Gas Light ³	0.7	Q	1.1	Q	Q	1.0	33.6
Rechargeable Tools/ or Appliances	43.7	51.3	45.4	43.7	41.0	41.0	3.4
Stereo Equipment	68.8	67.5	69.3	68.6	69.5	68.4	1.9

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

² The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

³ Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.
 NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.
 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.
 • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC5-2b. Appliances by Year of Construction,
Percent of U.S. Households, 1997**

Appliance Types and Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.6	1.1	1.0	1.1	1.2	0.9	
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Households With Electric								
Air-Conditioning Equipment	72.5	85.9	85.5	75.6	70.7	71.2	59.1	2.4
Central Equipment Not Used	0.3	Q	Q	Q	Q	Q	Q	39.0
Room Air Conditioners Not Used ..	0.7	Q	Q	Q	Q	Q	1.2	28.7
Households Using Electric								
Air-Conditioning ²	71.6	85.6	84.6	75.1	69.3	70.9	57.6	2.5
Type of Electric Air-Conditioning								
Used								
Central Air-Conditioning ³	46.8	77.4	74.4	55.1	45.3	36.7	18.5	4.1
Without a Heat Pump	36.4	57.3	51.8	41.7	38.4	30.6	17.3	5.9
With a Heat Pump	10.4	20.1	22.6	13.3	6.9	6.0	1.2	14.5
Room Air-Conditioning	24.8	8.3	10.2	20.0	24.0	34.3	39.1	7.7
1 Unit	14.7	6.3	7.9	13.3	14.1	17.9	21.5	10.1
2 Units	7.1	Q	1.6	4.6	6.5	12.0	12.4	12.6
3 or More Units	3.0	Q	Q	2.1	3.3	4.4	5.2	18.7
Clothes Washer	77.4	89.7	83.0	72.7	70.1	81.0	75.1	2.2
Clothes Dryer	71.2	88.3	80.0	68.8	63.4	71.7	65.1	2.5
Electric	55.1	71.7	67.0	59.0	49.6	48.8	45.0	3.7
Natural Gas	15.2	16.0	12.1	9.2	13.2	22.5	18.9	11.3
LPG	0.8	Q	Q	0.7	Q	Q	1.2	29.0
Dishwasher	50.2	76.7	71.2	56.6	48.3	37.2	30.3	3.7
Ceiling Fans	60.1	75.7	64.2	58.5	59.8	57.2	54.7	3.0
1	23.3	28.7	21.3	24.1	26.0	20.5	21.9	6.8
2	13.8	16.3	13.3	13.3	12.1	12.7	15.0	8.4
3 or more	23.0	30.6	29.6	21.1	21.8	24.1	17.8	6.0
Freezer	33.2	35.5	30.9	30.8	33.1	32.3	35.9	5.0
1	30.2	33.6	28.8	28.2	28.3	30.0	32.5	5.4
2 or more	2.9	Q	2.0	2.6	4.8	2.3	3.3	17.8
Most-Used Freezer								
Defrost Method								
Frost-Free	10.5	13.9	11.0	9.3	10.8	10.4	9.9	8.9
Manual	22.6	21.6	19.8	21.6	22.3	22.0	25.9	6.3
Type of Freezer								
Upright	16.3	16.3	17.4	15.8	16.7	16.7	15.6	7.1
Chest	16.9	19.2	13.4	15.0	16.4	15.6	20.3	7.6
Age of Freezer								
Less than 2 Years	2.4	4.7	2.5	1.7	2.3	1.8	2.2	20.8
2 to 4 Years	4.1	6.9	4.0	3.8	2.9	3.3	4.5	17.3
5 to 9 Years	7.4	9.4	10.0	7.0	5.7	6.1	6.8	11.8
10 to 19 Years	12.2	10.8	10.8	11.2	13.0	11.6	13.9	9.0
20 Years or More	6.6	3.2	3.2	6.8	8.3	8.9	7.7	13.1
Don't Know	0.5	Q	Q	Q	Q	Q	0.7	33.2

See footnotes at end of table.

**Table HC5-2b. Appliances by Year of Construction,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.6	1.1	1.0	1.1	1.2	0.9	
Freezer Size								
Very Small (Less than 11 cf)	2.7	3.2	2.3	2.5	2.3	2.3	3.2	19.6
Small (11-14 cf)	6.6	7.9	7.1	6.7	6.2	4.9	6.8	12.2
Medium (15-18 cf)	13.3	14.9	13.0	12.0	13.5	12.6	13.9	9.0
Large (19-22 cf)	8.9	7.3	6.8	8.5	9.1	9.8	10.6	10.9
Very Large (23 or More cf)	1.7	2.1	1.6	1.2	1.9	2.8	1.3	24.0
Heaters (other)								
Hot Tub or Spa	3.9	9.2	5.6	4.7	2.7	2.7	1.7	16.7
Electric	2.6	5.5	2.9	3.5	2.1	2.2	1.4	19.9
Natural Gas	1.1	Q	2.5	1.1	Q	Q	Q	36.0
LPG/Other	Q	Q	Q	Q	Q	Q	Q	NF
Portable Space	13.9	7.2	12.6	10.8	15.4	15.3	17.8	8.5
Electric	12.1	6.2	11.2	9.0	14.1	13.9	15.1	9.3
Kerosene	2.0	Q	1.7	2.0	1.6	1.4	3.2	21.9
Swimming Pool	1.1	Q	Q	1.5	Q	Q	0.9	34.2
Natural Gas	0.7	Q	Q	Q	Q	Q	Q	49.1
Electric/LPG/Other	0.4	Q	Q	Q	Q	Q	Q	54.6
Waterbed Heaters	8.3	8.9	9.1	9.7	7.9	8.1	6.8	11.7
1	6.8	7.9	7.5	7.5	6.7	7.3	5.4	12.9
2 or More	1.4	Q	1.6	2.2	1.2	Q	1.4	24.0
Waterbed Heaters								
Used All Year	7.3	8.3	7.9	8.4	6.8	7.7	6.0	12.5
1	6.4	8.0	7.0	7.2	5.7	7.0	4.8	13.8
2 or More	1.0	Q	Q	1.2	1.2	Q	1.1	25.5
Oven	98.8	98.9	99.2	99.3	98.7	98.8	98.2	NF
Electric	61.4	76.3	76.6	73.3	63.6	53.9	40.7	3.3
Natural Gas	33.3	18.3	18.7	21.6	30.0	43.3	52.8	7.2
LPG	4.1	4.3	3.8	4.3	5.1	1.5	4.7	17.9
Other	Q	Q	Q	Q	Q	Q	Q	NF
Self-Cleaning Oven	44.1	59.6	51.8	48.5	39.1	40.0	35.2	4.2
Continuous	9.9	13.3	10.2	10.5	8.7	10.5	8.5	9.6
Manual Start	34.1	46.3	41.6	38.0	30.4	29.4	26.7	5.1
Pumps (Electric)	19.8	26.3	18.9	23.5	18.7	16.3	17.7	7.9
Hot Tub or Spa	4.0	9.5	5.6	4.7	2.7	2.8	1.7	16.6
Swimming Pool	5.4	5.1	6.4	8.2	4.5	5.0	3.5	14.0
Well Water	14.1	18.9	12.1	16.6	13.3	10.6	14.0	11.2
Range	99.2	99.4	99.5	99.6	99.3	98.8	98.7	NF
Electric	60.2	72.4	75.3	72.7	62.5	52.2	40.1	3.6
Natural Gas	34.7	22.0	20.1	22.4	31.6	45.0	53.6	7.1
LPG	4.3	5.0	4.1	4.4	5.3	1.5	4.9	17.9
Other	Q	Q	Q	Q	Q	Q	Q	NF
Refrigerators	99.8	100.0	99.9	99.9	99.7	99.9	99.8	NF
1	84.7	83.1	83.6	87.1	82.0	81.7	87.0	1.4
2 or More	15.2	16.9	16.3	12.8	17.7	18.2	12.8	7.6

See footnotes at end of table.

**Table HC5-2b. Appliances by Year of Construction,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.6	1.1	1.0	1.1	1.2	0.9	
Most-Used Refrigerator								
Defrost Method								
Frost-Free	86.8	95.2	90.4	87.3	83.7	88.1	82.2	1.2
Manual	13.1	4.8	9.5	12.6	16.0	11.8	17.6	9.5
Type of Refrigerator								
2-Doors (top and bottom)	68.0	58.8	70.6	68.5	64.0	69.9	70.3	2.4
2-Doors (side-by-side)	20.4	34.0	20.8	20.8	20.5	19.6	15.5	7.0
Regular (single door)	10.7	7.1	7.4	10.1	14.5	9.8	12.8	11.8
Half-Size/Other	0.7	Q	Q	Q	Q	Q	1.1	29.7
Age of Refrigerator								
Less than 2 Years	13.2	24.7	10.0	14.5	10.2	11.3	12.7	8.1
2 to 4 Years	21.0	33.7	17.0	20.8	22.4	19.7	19.3	6.0
5 to 9 Years	29.9	31.1	35.8	27.0	29.1	29.7	28.2	4.8
10 to 19 Years	23.8	8.7	30.0	22.9	22.7	24.3	26.1	5.9
20 Years or More	7.0	Q	1.6	9.0	9.6	9.0	8.7	11.7
Don't Know	5.0	Q	5.5	5.7	5.7	5.9	4.8	16.1
Size of Refrigerator								
Very Small (Less than 11 cf)	0.9	Q	Q	0.9	1.0	Q	1.4	25.8
Small (11-14 cf)	7.6	3.4	6.9	7.8	7.8	7.6	9.3	12.1
Medium (15-18 cf)	45.0	38.3	46.0	45.8	46.0	44.7	45.8	3.8
Large (19-22 cf)	44.8	56.1	44.9	44.0	43.0	45.7	42.0	4.0
Very Large (23 or More cf)	1.5	Q	1.4	1.4	1.9	1.4	1.3	24.4
Through-the-Door Ice/Water Service								
Yes	13.0	28.2	14.5	13.3	11.6	11.4	7.8	9.2
No	87.0	71.8	85.5	86.7	88.4	88.6	92.2	1.5
Color Television Sets								
1	98.7	99.3	99.2	98.9	98.9	98.6	98.0	NF
2	31.8	23.4	26.9	33.1	33.4	30.6	36.7	5.2
3	37.4	40.6	39.3	38.5	36.5	36.8	35.0	4.1
4	19.1	21.6	21.0	17.4	20.1	20.9	17.0	6.6
5 or More	7.7	8.8	8.7	7.8	5.8	8.8	7.0	11.7
5 or More	2.7	4.8	3.3	2.1	3.2	1.6	2.4	19.3
Video Cassette Recorders (VCR's)								
1	87.6	94.5	91.2	88.6	88.3	84.7	83.1	1.2
2	55.5	54.6	53.6	55.6	57.8	54.8	56.1	2.9
3 or More	24.9	30.1	28.5	26.3	24.3	23.4	20.8	6.3
3 or More	7.2	9.8	9.0	6.8	6.3	6.5	6.1	11.8
Water Heaters								
Electric	100.0	100.0	100.0	100.0	100.0	100.0	100.0	NE
For One Housing Unit	39.1	48.9	57.5	51.3	33.2	27.8	23.7	5.6
For Two or More Units	37.3	47.1	55.2	48.7	31.0	26.6	22.8	5.8
Natural Gas	1.8	Q	2.4	2.7	2.1	1.2	0.9	26.2
For One Housing Unit	51.9	47.2	36.5	42.1	57.6	61.7	62.5	4.7
For Two or More Units	45.8	45.7	35.1	34.1	48.7	58.3	53.6	5.3
Fuel Oil	6.1	Q	1.4	8.0	8.9	3.4	8.9	17.0
For One Housing Unit	5.1	Q	2.2	2.2	5.5	8.0	8.7	17.2
For Two or More Units	3.1	Q	1.9	1.4	3.6	5.7	4.4	18.7
LPG	2.0	Q	Q	Q	1.9	2.3	4.4	26.1
Other	3.2	2.5	3.1	2.9	2.7	2.1	4.3	18.1
No Water Heater	0.7	Q	Q	1.3	Q	Q	Q	37.7
No Water Heater	0.2	Q	Q	Q	Q	Q	Q	68.2

See footnotes at end of table.

**Table HC5-2b. Appliances by Year of Construction,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.6	1.1	1.0	1.1	1.2	0.9	
Water Heater (for one housing unit)	89.7	96.5	95.8	87.8	86.4	92.9	85.2	1.3
Age								
Less than 2 Years	11.1	25.9	10.0	8.7	10.0	9.8	9.4	9.3
2 to 4 Years	16.8	34.5	11.8	15.4	15.8	15.8	15.5	6.4
5 to 9 Years	25.0	32.4	35.2	21.7	22.8	22.7	20.5	5.9
10 to 19 Years	19.9	Q	30.6	20.6	18.1	22.9	19.3	6.4
20 Years or More	7.0	Q	Q	9.6	9.9	10.4	8.9	10.4
Don't Know	7.0	1.9	6.4	9.2	6.6	7.5	7.7	12.9
No Separate Heater	2.9	Q	1.7	2.5	3.3	3.8	4.1	21.2
No Water Heater	0.2	Q	Q	Q	Q	Q	Q	68.2
Water Heaters for								
Two or More Units	10.1	3.3	4.2	12.1	13.4	7.0	14.5	15.1
Size								
Small	15.3	9.5	16.1	16.8	17.2	15.8	14.5	8.6
Medium	46.4	46.8	48.9	42.1	43.8	53.6	45.9	3.9
Large	21.3	34.8	25.1	22.4	18.6	17.5	16.8	7.4
Don't Know	3.7	4.3	3.9	4.0	3.6	2.2	3.9	18.6
No Separate Heater	2.9	Q	1.7	2.5	3.3	3.8	4.1	21.2
No Water Heater	0.2	Q	Q	Q	Q	Q	Q	68.2
Water Heaters for								
Two or More Units	10.1	3.3	4.2	12.1	13.4	7.0	14.5	15.1
Other Appliances								
Heated Aquarium	3.8	4.5	4.7	4.0	2.8	3.8	3.5	15.7
Microwave Oven	83.0	88.5	87.2	84.1	82.9	82.6	77.9	1.7
Outdoor Gas Light ³	0.7	Q	Q	Q	Q	Q	0.9	34.3
Rechargeable Tools/ or Appliances	43.7	54.1	46.4	44.7	43.2	42.3	38.7	4.0
Stereo Equipment	68.8	76.6	75.2	70.4	67.9	65.1	63.1	2.1

¹ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

² The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

³ Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

Table HC5-3b. Appliances by Household Income, Percent of U.S. Households, 1997

Appliance Types and Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.6	1.0	0.9	0.9	1.4	1.0	
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Households With Electric Air-Conditioning Equipment	72.5	61.3	67.2	75.3	80.3	57.6	62.4	2.3
Central Equipment Not Used	0.3	Q	Q	Q	Q	Q	Q	34.1
Room Air Conditioners Not Used ..	0.7	Q	0.8	0.7	0.8	Q	0.9	30.2
Households Using Electric Air-Conditioning²	71.6	60.7	66.1	74.2	79.6	56.7	61.2	2.4
Type of Electric Air-Conditioning Used								
Central Air-Conditioning ³	46.8	27.4	37.3	50.2	62.1	25.0	30.8	4.3
Without a Heat Pump	36.4	20.8	28.8	40.0	47.6	19.2	23.4	5.9
With a Heat Pump	10.4	6.6	8.6	10.1	14.5	5.8	7.3	12.1
Room Air-Conditioning	24.8	33.3	28.8	24.0	17.5	31.7	30.5	5.1
1 Unit	14.7	24.5	18.7	12.8	7.8	23.0	20.2	6.4
2 Units	7.1	7.6	7.3	8.5	5.3	7.6	7.9	10.1
3 or More Units	3.0	Q	2.8	2.7	4.4	1.1	2.4	18.8
Clothes Washer	77.4	52.7	69.0	81.5	93.4	58.0	63.3	2.4
Clothes Dryer	71.2	36.2	61.0	77.1	91.8	41.5	51.2	2.8
Electric	55.1	31.0	49.0	59.9	67.6	33.3	40.2	3.5
Natural Gas	15.2	4.8	11.1	16.3	23.3	8.1	10.4	9.1
LPG	0.8	Q	0.9	0.9	0.9	Q	0.7	28.6
Dishwasher	50.2	15.7	35.5	53.6	78.2	17.3	26.7	4.1
Ceiling Fans	60.1	39.3	55.2	64.4	70.3	40.9	48.3	2.9
1	23.3	21.0	24.8	25.4	20.4	22.9	23.5	5.4
2	13.8	7.5	13.0	15.1	16.2	6.6	11.0	7.8
3 or more	23.0	10.9	17.5	23.9	33.7	11.5	13.8	6.2
Freezer	33.2	25.6	30.0	35.1	37.9	26.4	27.9	4.4
1	30.2	23.6	27.5	32.2	34.1	24.3	25.8	4.6
2 or more	2.9	2.0	2.5	2.9	3.8	2.1	2.0	15.9
Most-Used Freezer Defrost Method								
Frost-Free	10.5	7.3	8.1	11.8	13.2	7.6	7.7	7.7
Manual	22.6	18.3	22.0	23.3	24.7	18.8	20.1	5.6
Type of Freezer								
Upright	16.3	9.4	13.8	16.4	22.0	9.9	11.5	6.7
Chest	16.9	16.2	16.2	18.6	15.9	16.6	16.3	6.4
Age of Freezer								
Less than 2 Years	2.4	1.8	2.3	2.3	2.8	1.9	2.4	17.6
2 to 4 Years	4.1	3.0	3.6	4.0	5.4	3.5	3.2	13.8
5 to 9 Years	7.4	7.1	5.8	8.0	8.6	7.2	6.2	10.1
10 to 19 Years	12.2	9.0	10.3	13.3	14.3	10.1	9.9	7.4
20 Years or More	6.6	4.3	7.4	6.9	6.3	3.2	5.7	11.3
Don't Know	0.5	Q	0.6	0.5	Q	Q	0.4	31.4

See footnotes at end of table.

**Table HC5-3b. Appliances by Household Income,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	1997 Household Income				Below Poverty Line	Eli- gible for Fed- eral Assist- ance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.6	1.0	0.9	0.9	1.4	1.0	
Freezer Size								
Very Small (Less than 11 cf)	2.7	2.1	2.5	2.9	2.9	2.3	1.9	16.0
Small (11-14 cf)	6.6	5.4	6.3	7.0	7.2	5.7	5.8	10.5
Medium (15-18 cf)	13.3	10.9	13.0	13.7	14.1	10.6	11.9	7.4
Large (19-22 cf)	8.9	6.7	7.4	9.9	10.5	6.9	7.5	9.4
Very Large (23 or More cf)	1.7	Q	0.8	1.6	3.3	Q	0.8	21.4
Heaters (other)								
Hot Tub or Spa	3.9	Q	1.1	3.7	8.3	1.9	1.8	20.4
Electric	2.6	Q	1.1	2.4	5.6	Q	1.2	20.8
Natural Gas	1.1	Q	Q	1.1	2.4	Q	Q	32.6
LPG/Other	Q	Q	Q	Q	Q	Q	Q	NF
Portable Space	13.9	11.0	12.6	14.3	16.2	12.9	11.6	7.0
Electric	12.1	9.8	10.9	12.1	14.5	11.0	10.1	7.4
Kerosene	2.0	1.3	2.0	2.5	1.9	2.1	1.9	16.9
Swimming Pool	1.1	Q	Q	0.9	2.5	Q	Q	32.2
Natural Gas	0.7	Q	Q	Q	1.7	Q	Q	33.3
Electric/LPG/Other	0.4	Q	Q	Q	0.8	Q	Q	39.1
Waterbed Heaters	8.3	2.6	7.1	9.3	11.0	3.8	5.3	12.0
1	6.8	2.5	6.2	7.4	9.0	3.7	4.6	13.5
2 or More	1.4	Q	0.9	1.9	2.1	Q	0.6	22.9
Waterbed Heaters								
Used All Year	7.3	2.1	6.1	8.5	9.9	3.3	4.2	13.2
1	6.4	2.0	5.5	7.0	8.6	3.2	3.9	14.4
2 or More	1.0	Q	0.5	1.5	1.3	Q	Q	23.5
Oven	98.8	96.6	98.6	99.4	99.3	97.4	98.0	NF
Electric	61.4	49.1	58.7	63.9	67.4	47.6	52.5	3.0
Natural Gas	33.3	42.2	34.9	31.6	29.2	44.6	40.3	4.7
LPG	4.1	5.3	5.1	3.9	2.7	5.0	5.1	15.4
Other	Q	Q	Q	Q	Q	Q	Q	NF
Self-Cleaning Oven	44.1	18.1	31.1	47.0	66.6	19.4	25.4	4.3
Continuous	9.9	5.1	8.8	10.7	12.5	5.3	7.0	9.4
Manual Start	34.1	13.0	22.3	36.3	54.1	14.1	18.4	5.4
Pumps (Electric)	19.8	9.3	14.6	20.4	29.8	10.9	12.6	8.2
Hot Tub or Spa	4.0	Q	1.1	3.7	8.5	1.9	1.8	20.3
Swimming Pool	5.4	Q	2.4	5.1	10.9	2.1	2.2	14.7
Well Water	14.1	8.5	12.4	14.3	18.5	9.4	10.5	10.6
Range	99.2	97.0	99.1	99.8	99.6	97.8	98.4	NF
Electric	60.2	49.1	58.3	62.8	64.4	47.7	52.3	3.0
Natural Gas	34.7	42.4	35.6	32.9	31.9	44.9	40.9	4.6
LPG	4.3	5.4	5.2	4.0	3.3	5.1	5.1	15.1
Other	Q	Q	Q	Q	Q	Q	Q	NF
Refrigerators	99.8	99.3	99.9	99.9	100.0	99.6	99.7	NF
1	84.7	94.3	90.5	83.4	75.5	92.7	91.4	1.0
2 or More	15.2	5.0	9.4	16.5	24.5	6.8	8.3	7.8

See footnotes at end of table.

Table HC5-3b. Appliances by Household Income, Percent of U.S. Households, 1997 (Continued)

Appliance Types and Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.6	1.0	0.9	0.9	1.4	1.0	
Most-Used Refrigerator								
Defrost Method								
Frost-Free	86.8	73.0	83.1	88.5	95.2	75.6	79.2	1.4
Manual	13.1	26.2	16.8	11.4	4.8	24.0	20.5	6.9
Type of Refrigerator								
2-Doors (top and bottom)	68.0	70.2	72.2	70.4	59.7	70.2	72.2	1.9
2-Doors (side-by-side)	20.4	8.7	14.2	18.9	34.1	10.7	11.9	7.0
Regular (single door)	10.7	18.6	12.6	9.8	5.8	17.1	14.5	8.4
Half-Size/Other	0.7	1.6	0.8	0.8	Q	1.5	0.9	25.3
Age of Refrigerator								
Less than 2 Years	13.2	12.1	11.7	13.9	14.5	11.9	11.8	7.1
2 to 4 Years	21.0	21.5	18.3	20.5	24.3	25.0	21.1	5.1
5 to 9 Years	29.9	25.6	30.3	29.9	31.4	26.9	28.5	4.2
10 to 19 Years	23.8	21.7	24.4	24.8	23.0	19.4	22.6	4.9
20 Years or More	7.0	9.3	9.0	6.4	4.4	7.5	8.0	9.6
Don't Know	5.0	9.1	6.2	4.4	2.4	8.9	7.7	12.2
Size of Refrigerator								
Very Small (Less than 11 cf)	0.9	3.0	0.8	0.6	Q	2.7	1.5	19.0
Small (11-14 cf)	7.6	15.5	9.4	7.1	2.6	12.8	11.6	9.3
Medium (15-18 cf)	45.0	50.8	52.4	46.0	33.5	53.2	50.5	2.9
Large (19-22 cf)	44.8	29.5	36.6	44.8	60.7	30.4	35.5	3.7
Very Large (23 or More cf)	1.5	Q	0.7	1.4	2.9	Q	0.6	22.4
Through-the-Door Ice/Water Service								
Yes	13.0	4.1	7.6	11.3	24.6	5.6	6.0	10.5
No	87.0	95.9	92.4	88.7	75.4	94.4	94.0	1.1
Color Television Sets								
1	98.7	96.1	98.5	99.2	99.6	97.3	97.5	NF
2	31.8	55.6	40.5	27.3	16.6	47.0	43.3	3.9
3	37.4	30.9	37.7	41.6	35.4	34.5	35.5	3.5
4	19.1	7.5	15.6	20.4	26.8	11.8	13.8	6.3
5 or More	7.7	1.7	3.6	8.2	14.0	2.9	3.7	11.5
5 or More	2.7	Q	1.1	1.7	6.8	Q	1.3	18.9
Video Cassette Recorders (VCR's)								
1	87.6	66.8	84.0	91.6	96.6	73.8	77.1	1.6
2	55.5	47.9	63.3	59.5	46.7	52.6	55.4	2.6
3 or More	24.9	17.9	17.8	25.2	35.2	19.4	19.0	5.5
3 or More	7.2	Q	2.9	6.9	14.8	1.8	2.7	12.0
Water Heaters								
Electric	100.0	100.0	100.0	100.0	100.0	100.0	100.0	NE
For One Housing Unit	39.1	40.7	43.3	39.9	32.9	38.7	40.4	4.7
For Two or More Units	37.3	37.9	40.8	38.4	32.0	36.5	37.5	4.8
Natural Gas	1.8	2.8	2.6	1.5	0.9	2.1	3.0	21.1
For One Housing Unit	51.9	46.9	48.5	51.5	58.2	49.7	49.3	4.0
For Two or More Units	45.8	35.0	40.8	45.9	56.1	38.2	39.7	4.8
Fuel Oil	6.1	12.0	7.6	5.6	2.1	11.5	9.6	11.4
For One Housing Unit	5.1	7.2	4.4	4.8	5.0	6.4	5.8	11.2
For Two or More Units	3.1	1.5	2.3	3.3	4.5	1.1	2.1	18.0
LPG	2.0	5.7	2.0	1.6	0.5	5.2	3.7	15.8
Other	3.2	3.0	3.4	3.3	2.8	3.3	3.3	15.8
No Water Heater	0.7	Q	Q	0.4	1.1	1.5	0.8	35.6
No Water Heater	0.2	Q	Q	Q	Q	Q	Q	59.7

See footnotes at end of table.

Table HC5-3b. Appliances by Household Income, Percent of U.S. Households, 1997 (Continued)

Appliance Types and Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.6	1.0	0.9	0.9	1.4	1.0	
Water Heater (for one housing unit)	89.7	77.9	87.5	91.0	96.3	79.9	83.0	1.5
Age								
Less than 2 Years	11.1	8.4	9.3	12.8	12.3	8.9	9.3	7.6
2 to 4 Years	16.8	15.3	14.8	15.4	21.0	16.1	15.2	5.8
5 to 9 Years	25.0	15.3	22.1	26.8	30.5	16.8	19.5	5.3
10 to 19 Years	19.9	14.4	21.5	20.5	20.4	14.4	17.5	5.8
20 Years or More	7.0	10.0	9.0	5.7	5.0	9.5	9.3	9.5
Don't Know	7.0	10.4	7.9	7.2	4.3	10.6	8.9	9.7
No Separate Heater	2.9	4.1	3.0	2.5	2.8	3.6	3.3	17.5
No Water Heater	0.2	Q	Q	Q	Q	Q	Q	59.7
Water Heaters for Two or More Units	10.1	21.1	12.4	9.0	3.7	19.5	16.6	8.8
Size								
Small	15.3	19.8	20.4	14.9	8.2	17.9	18.1	6.8
Medium	46.4	34.6	45.2	49.1	50.4	37.2	41.0	3.3
Large	21.3	13.7	15.4	21.3	31.3	16.6	15.9	6.7
Don't Know	3.7	5.7	3.5	3.2	3.6	4.7	4.6	15.2
No Separate Heater	2.9	4.1	3.0	2.5	2.8	3.6	3.3	17.5
No Water Heater	0.2	Q	Q	Q	Q	Q	Q	59.7
Water Heaters for Two or More Units	10.1	21.1	12.4	9.0	3.7	19.5	16.6	8.8
Other Appliances								
Heated Aquarium	3.8	3.0	2.7	4.0	5.2	2.9	2.8	14.1
Microwave Oven	83.0	60.3	81.2	86.7	91.5	63.8	72.0	1.7
Outdoor Gas Light ³	0.7	Q	Q	0.7	1.2	Q	Q	32.5
Rechargeable Tools/ or Appliances	43.7	15.1	32.0	48.6	64.1	18.8	25.8	4.0
Stereo Equipment	68.8	45.2	60.1	73.7	83.7	53.0	56.0	2.1

¹ Below 150 percent of poverty line or 60 percent of median State income.

² The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

³ Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC5-4b. Appliances by Type of Housing Unit,
Percent of U.S. Households, 1997**

Appliance Types and Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.5	1.9	1.5	1.5	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Households With Electric						
Air-Conditioning Equipment	72.5	73.8	62.6	70.4	71.7	3.0
Central Equipment Not Used	0.3	0.3	Q	Q	Q	52.1
Room Air Conditioners Not Used ..	0.7	0.6	Q	Q	Q	38.9
Households Using Electric						
Air-Conditioning¹	71.6	73.0	60.9	68.9	71.1	3.0
Type of Electric Air-Conditioning						
Used						
Central Air-Conditioning ²	46.8	49.9	28.4	40.9	41.5	5.7
Without a Heat Pump	36.4	38.4	25.0	32.2	32.5	7.6
With a Heat Pump	10.4	11.4	Q	8.7	9.0	16.5
Room Air-Conditioning	24.8	23.1	32.4	28.0	29.6	6.8
1 Unit	14.7	11.8	24.8	21.7	21.0	8.3
2 Units	7.1	7.6	7.2	5.2	6.7	13.1
3 or More Units	3.0	3.7	Q	Q	Q	22.0
Clothes Washer	77.4	92.2	39.7	21.3	78.9	3.8
Clothes Dryer	71.2	85.8	28.5	17.8	71.6	4.6
Electric	55.1	64.8	23.0	16.4	67.5	5.5
Natural Gas	15.2	19.9	5.6	1.3	4.1	16.4
LPG	0.8	1.1	Q	Q	Q	31.2
Dishwasher	50.2	56.6	18.3	40.1	29.0	5.7
Ceiling Fans	60.1	68.8	31.1	31.1	57.0	3.8
1	23.3	22.4	22.2	23.1	34.9	6.5
2	13.8	16.7	4.0	5.0	10.9	10.3
3 or more	23.0	29.7	5.0	2.9	11.3	10.1
Freezer	33.2	41.6	11.0	3.5	28.3	7.0
1	30.2	37.9	10.8	3.5	25.7	7.4
2 or more	2.9	3.8	Q	Q	Q	15.9
Most-Used Freezer						
Defrost Method						
Frost-Free	10.5	13.2	Q	1.8	8.7	10.6
Manual	22.6	28.4	8.7	1.7	19.6	8.8
Type of Freezer						
Upright	16.3	20.9	4.5	1.1	11.5	10.6
Chest	16.9	20.8	6.5	2.4	16.8	10.8
Age of Freezer						
Less than 2 Years	2.4	2.8	Q	Q	3.5	23.0
2 to 4 Years	4.1	4.9	Q	1.0	5.2	18.5
5 to 9 Years	7.4	9.1	3.7	Q	7.8	11.8
10 to 19 Years	12.2	15.8	Q	0.9	6.5	12.2
20 Years or More	6.6	8.5	Q	Q	4.8	13.9
Don't Know	0.5	0.5	Q	Q	Q	40.8

See footnotes at end of table.

**Table HC5-4b. Appliances by Type of Housing Unit,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.5	1.9	1.5	1.5	
Freezer Size						
Very Small (Less than 11 cf)	2.7	3.0	Q	Q	5.1	18.8
Small (11-14 cf)	6.6	8.0	Q	1.2	7.3	14.3
Medium (15-18 cf)	13.3	17.0	4.0	1.1	8.4	13.5
Large (19-22 cf)	8.9	11.4	Q	Q	6.8	11.5
Very Large (23 or More cf)	1.7	2.2	Q	Q	Q	21.8
Heaters (other)						
Hot Tub or Spa	3.9	5.3	Q	Q	Q	18.3
Electric	2.6	3.5	Q	Q	Q	19.4
Natural Gas	1.1	1.6	Q	Q	Q	50.8
LPG/Other	Q	Q	Q	Q	Q	NF
Portable Space	13.9	15.5	10.2	7.0	16.4	9.1
Electric	12.1	13.2	9.4	6.9	14.8	9.7
Kerosene	2.0	2.5	Q	Q	2.1	20.7
Swimming Pool	1.1	1.5	Q	Q	Q	47.1
Natural Gas	0.7	1.0	Q	Q	Q	51.1
Electric/LPG/Other	0.4	0.5	Q	Q	Q	56.6
Waterbed Heaters	8.3	9.6	5.6	3.8	5.9	14.5
1	6.8	7.8	4.8	3.8	5.3	15.6
2 or More	1.4	1.9	Q	Q	Q	21.3
Waterbed Heaters Used All Year	7.3	8.7	3.3	3.5	4.9	15.2
1	6.4	7.4	3.1	3.5	4.3	16.2
2 or More	1.0	1.3	Q	Q	Q	22.4
Oven	98.8	98.9	98.7	98.4	98.9	NF
Electric	61.4	62.5	50.2	64.7	50.3	3.9
Natural Gas	33.3	32.5	47.5	33.7	27.8	6.6
LPG	4.1	3.8	Q	Q	20.8	18.1
Other	Q	Q	Q	Q	Q	NF
Self-Cleaning Oven	44.1	53.9	15.0	18.9	17.7	6.1
Continuous	9.9	11.6	3.0	6.1	6.4	12.4
Manual Start	34.1	42.4	12.0	12.7	11.3	6.9
Pumps (Electric)	19.8	25.3	2.6	Q	20.5	11.7
Hot Tub or Spa	4.0	5.3	Q	Q	Q	18.0
Swimming Pool	5.4	7.4	Q	Q	Q	14.2
Well Water	14.1	17.5	1.8	Q	20.1	15.3
Range	99.2	99.3	99.0	98.8	99.4	NF
Electric	60.2	60.8	50.2	64.8	50.4	3.9
Natural Gas	34.7	34.4	47.8	34.0	27.9	6.5
LPG	4.3	4.1	Q	Q	21.0	17.8
Other	Q	Q	Q	Q	Q	NF
Refrigerators	99.8	99.9	100.0	99.5	99.8	NF
1	84.7	80.1	96.7	97.8	95.1	0.9
2 or More	15.2	19.9	3.3	1.7	4.7	13.4

See footnotes at end of table.

**Table HC5-4b. Appliances by Type of Housing Unit,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.5	1.9	1.5	1.5	
Most-Used Refrigerator						
Defrost Method						
Frost-Free	86.8	91.4	69.1	75.5	77.3	2.1
Manual	13.1	8.6	30.9	24.0	22.5	7.8
Type of Refrigerator						
2-Doors (top and bottom)	68.0	65.1	73.2	77.0	74.4	2.5
2-Doors (side-by-side)	20.4	25.7	6.6	4.5	10.9	9.8
Regular (single door)	10.7	8.5	19.0	17.2	12.8	10.9
Half-Size/Other	0.7	0.6	Q	Q	Q	40.1
Age of Refrigerator						
Less than 2 Years	13.2	13.0	11.6	13.9	15.6	8.1
2 to 4 Years	21.0	21.0	20.6	22.1	19.6	6.2
5 to 9 Years	29.9	30.9	28.9	25.6	29.2	5.1
10 to 19 Years	23.8	25.9	20.0	16.5	21.4	6.0
20 Years or More	7.0	6.7	6.8	7.2	9.2	11.2
Don't Know	5.0	2.4	12.0	14.2	4.9	14.6
Size of Refrigerator						
Very Small (Less than 11 cf)	0.9	0.6	Q	1.9	Q	25.3
Small (11-14 cf)	7.6	4.9	13.7	16.4	11.4	9.6
Medium (15-18 cf)	45.0	40.0	55.8	59.2	58.6	3.1
Large (19-22 cf)	44.8	52.4	29.4	21.8	27.7	4.7
Very Large (23 or More cf)	1.5	2.0	Q	Q	Q	21.9
Through-the-Door Ice/Water Service						
Yes	13.0	17.1	Q	Q	5.7	11.6
No	87.0	82.9	98.1	99.5	94.3	0.9
Color Television Sets						
1	98.7	99.0	96.7	97.7	99.4	NF
2	31.8	24.1	48.2	56.1	47.5	4.0
3	37.4	38.7	30.3	35.1	34.5	4.3
4	19.1	23.0	13.2	5.6	12.7	7.5
5 or More	7.7	9.7	4.3	Q	3.5	13.5
	2.7	3.6	Q	Q	Q	18.8
Video Cassette Recorders (VCR's)						
1	87.6	89.5	78.2	81.2	88.9	1.4
2	55.5	53.2	55.4	62.5	65.8	3.0
3 or More	24.9	27.4	20.1	16.7	19.8	6.9
	7.2	8.9	2.7	2.1	3.3	15.3
Water Heaters						
Electric	100.0	100.0	100.0	100.0	100.0	NE
For One Housing Unit	39.1	36.0	32.7	43.8	68.2	5.7
For Two or More Units	37.3	35.6	29.0	35.7	68.0	6.1
Natural Gas	1.8	0.4	3.7	8.1	Q	21.0
For One Housing Unit	51.9	55.4	61.3	43.6	22.8	5.8
For Two or More Units	45.8	53.7	44.4	18.6	22.7	7.4
Fuel Oil	6.1	1.7	16.9	25.1	Q	12.5
For One Housing Unit	5.1	4.3	5.6	10.3	Q	15.7
For Two or More Units	3.1	4.0	Q	1.1	Q	21.7
LPG	2.0	0.3	5.1	9.3	Q	20.1
Other	3.2	3.6	Q	Q	8.3	18.6
No Water Heater	0.7	0.6	Q	1.7	Q	40.4
	0.2	Q	Q	Q	Q	75.7

See footnotes at end of table.

**Table HC5-4b. Appliances by Type of Housing Unit,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.5	1.9	1.5	1.5	
Water Heater (for one housing unit)	89.7	97.4	74.3	55.6	99.0	3.1
Age						
Less than 2 Years	11.1	12.4	6.0	4.7	16.5	10.9
2 to 4 Years	16.8	18.4	15.0	7.9	21.9	7.3
5 to 9 Years	25.0	28.2	19.2	13.0	21.9	7.5
10 to 19 Years	19.9	23.1	9.3	8.7	20.5	8.3
20 Years or More	7.0	7.6	4.4	3.9	10.7	12.6
Don't Know	7.0	5.4	16.7	11.0	7.5	11.7
No Separate Heater	2.9	2.4	3.7	6.4	Q	20.0
No Water Heater	0.2	Q	Q	Q	Q	75.7
Water Heaters for						
Two or More Units	10.1	2.5	25.7	44.1	Q	10.1
Size						
Small	15.3	13.3	16.7	15.5	36.9	7.8
Medium	46.4	52.9	32.0	21.2	47.1	4.5
Large	21.3	26.0	13.9	6.3	12.0	9.3
Don't Know	3.7	2.9	8.0	6.2	2.9	17.4
No Separate Heater	2.9	2.4	3.7	6.4	Q	20.0
No Water Heater	0.2	Q	Q	Q	Q	75.7
Water Heaters for						
Two or More Units	10.1	2.5	25.7	44.1	Q	10.1
Other Appliances						
Heated Aquarium	3.8	4.0	4.1	3.0	3.2	15.2
Microwave Oven	83.0	86.7	67.8	71.6	81.4	2.0
Outdoor Gas Light ²	0.7	0.9	Q	Q	Q	39.9
Rechargeable Tools/ or Appliances	43.7	51.0	19.9	22.2	33.9	4.5
Stereo Equipment	68.8	70.4	63.0	65.7	62.7	2.3

¹ The number of households where the end use is electric air-conditioning excludes households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those latter households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC5-5b. Appliances by Type of Owner-Occupied Housing Unit,
Percent of U.S. Households, 1997**

Appliance Types and Characteristics	Total Owner- Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.4	2.3	2.5	1.2	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Households With Electric Air-Conditioning Equipment	76.7	76.8	83.4	75.7	73.9	3.9
Central Equipment Not Used	0.3	0.3	Q	Q	Q	65.3
Room Air Conditioners Not Used ..	0.7	0.7	Q	Q	Q	57.9
Households Using Electric Air-Conditioning¹	75.7	76.0	79.5	70.2	73.2	4.2
Type of Electric Air-Conditioning Used						
Central Air-Conditioning ²	52.8	54.1	41.1	30.1	44.9	8.0
Without a Heat Pump	41.2	42.0	39.0	23.6	36.1	10.4
With a Heat Pump	11.6	12.0	Q	Q	8.8	23.7
Room Air-Conditioning	23.0	22.0	38.3	40.1	28.2	9.8
1 Unit	11.4	10.4	17.9	17.5	19.8	14.4
2 Units	7.6	7.4	Q	15.1	6.2	18.3
3 or More Units	4.0	4.1	Q	Q	Q	29.2
Clothes Washer	93.0	95.6	62.5	35.5	81.0	5.7
Clothes Dryer	87.6	90.2	54.0	31.9	75.0	6.4
Electric	66.7	67.5	39.8	27.2	70.6	7.1
Natural Gas	19.7	21.4	Q	Q	4.4	18.9
LPG	1.1	1.3	Q	Q	Q	42.1
Dishwasher	58.9	61.7	31.9	48.9	33.3	7.0
Ceiling Fans	71.5	72.9	57.5	48.8	63.2	4.1
1	23.5	22.3	32.1	18.5	37.3	9.5
2	17.1	17.6	Q	20.8	12.3	12.1
3 or more	31.0	33.1	Q	Q	13.5	9.0
Freezer	43.6	45.9	Q	Q	30.6	6.2
1	39.4	41.4	Q	Q	27.5	7.1
2 or more	4.2	4.4	Q	Q	Q	19.9
Most-Used Freezer Defrost Method						
Frost-Free	13.7	14.4	Q	Q	8.9	11.8
Manual	29.9	31.4	Q	Q	21.7	8.3
Type of Freezer						
Upright	21.9	23.3	Q	Q	11.5	9.9
Chest	21.7	22.6	Q	Q	19.1	9.8
Age of Freezer						
Less than 2 Years	2.9	2.9	Q	Q	Q	27.7
2 to 4 Years	5.3	5.3	Q	Q	5.9	22.1
5 to 9 Years	9.4	9.7	Q	Q	8.5	14.7
10 to 19 Years	16.3	17.5	Q	Q	7.6	13.2
20 Years or More	9.3	9.9	Q	Q	5.3	18.3
Don't Know	0.4	0.5	Q	Q	Q	65.9

See footnotes at end of table.

**Table HC5-5b. Appliances by Type of Owner-Occupied Housing Unit,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total Owner- Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.4	2.3	2.5	1.2	
Freezer Size						
Very Small (Less than 11 cf)	3.1	3.0	Q	Q	5.2	28.2
Small (11-14 cf)	8.3	8.5	Q	Q	8.5	17.7
Medium (15-18 cf)	18.0	19.2	Q	Q	10.0	13.1
Large (19-22 cf)	11.9	12.6	Q	Q	6.3	14.9
Very Large (23 or More cf)	2.3	2.5	Q	Q	Q	29.2
Heaters (other)						
Hot Tub or Spa	5.6	6.1	Q	Q	Q	23.8
Electric	3.7	4.0	Q	Q	Q	24.9
Natural Gas	1.7	1.9	Q	Q	Q	65.7
LPG/Other	Q	Q	Q	Q	Q	NF
Portable Space	15.6	15.8	Q	Q	16.3	12.6
Electric	13.5	13.5	Q	Q	15.4	13.8
Kerosene	2.4	2.5	Q	Q	Q	28.1
Swimming Pool	1.6	1.8	Q	Q	Q	60.8
Natural Gas	1.0	1.1	Q	Q	Q	66.7
Electric/LPG/Other	0.6	0.6	Q	Q	Q	71.6
Waterbed Heaters	9.3	9.9	Q	Q	5.6	19.8
1	7.7	8.1	Q	Q	4.9	22.0
2 or More	1.6	1.8	Q	Q	Q	31.7
Waterbed Heaters Used All Year	8.4	9.0	Q	Q	4.6	20.2
1	7.3	7.8	Q	Q	3.8	22.5
2 or More	1.1	1.2	Q	Q	Q	34.4
Oven	99.0	99.1	98.8	96.8	99.1	0.7
Electric	63.3	64.8	42.0	60.8	49.8	6.1
Natural Gas	30.7	30.3	56.8	36.0	29.1	9.6
LPG	5.0	3.9	Q	Q	20.2	23.1
Other	Q	Q	Q	Q	Q	NF
Self-Cleaning Oven	55.8	59.4	40.0	49.7	18.9	6.7
Continuous	12.2	12.8	Q	Q	7.2	15.6
Manual Start	43.6	46.6	36.4	37.6	11.7	8.4
Pumps (Electric)	26.7	28.0	Q	Q	19.9	12.5
Hot Tub or Spa	5.6	6.2	Q	Q	Q	23.4
Swimming Pool	7.6	8.6	Q	Q	Q	18.3
Well Water	18.6	19.1	Q	Q	19.3	17.4
Range	99.5	99.5	100.0	100.0	99.5	NF
Electric	61.5	62.8	42.0	62.6	50.0	6.1
Natural Gas	32.6	32.4	58.0	37.4	29.3	9.2
LPG	5.3	4.2	Q	Q	20.2	22.6
Other	Q	Q	Q	Q	Q	NF
Refrigerators	99.9	99.9	100.0	100.0	99.8	NF
1	79.4	77.7	87.1	96.1	95.0	1.8
2 or More	20.5	22.3	Q	Q	4.8	13.8

See footnotes at end of table.

**Table HC5-5b. Appliances by Type of Owner-Occupied Housing Unit,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total Owner- Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.4	2.3	2.5	1.2	
Most-Used Refrigerator						
Defrost Method						
Frost-Free	92.0	93.3	89.3	89.2	78.2	2.2
Manual	7.9	6.7	Q	Q	21.6	16.1
Type of Refrigerator						
2-Doors (top and bottom)	63.8	62.8	60.9	73.0	74.3	3.9
2-Doors (side-by-side)	27.4	29.0	22.2	15.9	12.4	10.9
Regular (single door)	8.0	7.6	Q	Q	11.5	21.2
Half-Size/Other	0.6	0.5	Q	Q	Q	62.6
Age of Refrigerator						
Less than 2 Years	12.8	12.5	Q	Q	16.8	12.0
2 to 4 Years	20.9	21.1	Q	18.4	21.1	9.4
5 to 9 Years	31.4	31.4	43.8	33.6	28.3	7.4
10 to 19 Years	26.0	26.6	20.1	21.3	21.0	9.0
20 Years or More	7.5	7.0	Q	Q	10.6	15.3
Don't Know	1.5	1.3	Q	Q	Q	52.5
Size of Refrigerator						
Very Small (Less than 11 cf)	0.7	0.5	Q	Q	Q	58.9
Small (11-14 cf)	4.7	4.1	Q	11.8	10.4	17.7
Medium (15-18 cf)	38.6	36.8	49.8	40.7	57.0	5.8
Large (19-22 cf)	54.0	56.4	46.9	45.0	30.0	6.1
Very Large (23 or More cf)	2.0	2.2	Q	Q	Q	30.5
Through-the-Door Ice/Water Service						
Yes	18.1	19.5	Q	Q	6.5	14.3
No	81.9	80.5	89.0	97.4	93.5	1.6
Color Television Sets						
1	99.1	99.1	98.7	100.0	99.3	0.6
2	23.6	21.3	24.6	44.9	45.1	8.4
3	39.0	39.3	33.6	43.0	34.9	6.7
4	22.6	23.7	Q	Q	13.8	9.6
5 or More	10.3	10.8	20.2	Q	3.9	17.4
	3.7	3.9	Q	Q	Q	23.2
Video Cassette Recorders (VCR's)						
1	89.9	90.3	87.8	80.2	88.5	2.4
2	53.5	52.2	58.8	60.8	65.9	4.9
3 or More	27.6	28.7	19.7	14.7	19.1	11.4
	8.8	9.4	Q	Q	3.4	17.5
Water Heaters						
Electric	100.0	100.0	100.0	100.0	100.0	NE
For One Housing Unit	38.5	36.4	Q	44.4	66.3	8.6
For Two or More Units	38.0	36.0	Q	38.4	66.1	8.9
Natural Gas	0.5	0.4	Q	Q	Q	74.9
For One Housing Unit	52.7	54.8	79.7	42.0	25.4	8.2
For Two or More Units	50.9	53.7	61.8	Q	25.2	8.5
Fuel Oil	1.8	1.0	Q	35.0	Q	28.9
For One Housing Unit	4.4	4.6	Q	Q	Q	28.5
For Two or More Units	3.9	4.4	Q	Q	Q	29.9
LPG	0.5	Q	Q	Q	Q	42.2
Other	3.8	3.6	Q	Q	7.5	25.0
No Water Heater	0.6	0.6	Q	Q	Q	74.2
	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

Table HC5-5b. Appliances by Type of Owner-Occupied Housing Unit, Percent of U.S. Households, 1997 (Continued)

Appliance Types and Characteristics	Total Owner-Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.4	2.3	2.5	1.2	
Water Heater (for one housing unit)	97.1	98.3	75.8	46.7	98.8	6.2
Age						
Less than 2 Years	12.4	12.4	Q	Q	15.9	14.5
2 to 4 Years	18.7	18.6	Q	Q	23.9	9.0
5 to 9 Years	28.5	29.4	19.0	Q	23.1	10.6
10 to 19 Years	23.6	24.3	Q	Q	20.7	9.5
20 Years or More	7.8	7.5	Q	Q	10.8	16.9
Don't Know	3.7	3.6	Q	Q	4.2	20.9
No Separate Heater	2.5	2.6	Q	Q	Q	35.7
No Water Heater	Q	Q	Q	Q	Q	NF
Water Heaters for						
Two or More Units	2.8	1.7	24.2	53.3	Q	18.4
Size						
Small	14.2	12.5	Q	Q	34.9	11.4
Medium	51.8	53.2	32.8	Q	47.8	5.7
Large	26.1	27.6	26.0	Q	13.3	11.2
Don't Know	2.5	2.4	Q	Q	Q	42.8
No Separate Heater	2.5	2.6	Q	Q	Q	35.7
No Water Heater	Q	Q	Q	Q	Q	NF
Water Heaters for						
Two or More Units	2.8	1.7	24.2	53.3	Q	18.4
Other Appliances						
Heated Aquarium	4.0	4.0	Q	Q	3.1	24.8
Microwave Oven	87.6	88.4	75.6	75.7	83.1	2.9
Outdoor Gas Light ²	0.9	1.0	Q	Q	Q	54.3
Rechargeable Tools/						
or Appliances	52.5	54.5	38.3	29.6	36.9	5.9
Stereo Equipment	69.1	70.0	57.2	57.8	62.7	3.9

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC5-6b. Appliances by Type of Rented Housing Unit,
Percent of U.S. Households, 1997**

Appliance Types and Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.7	1.4	1.0	1.9	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Households With Electric Air-Conditioning Equipment	63.9	59.1	58.5	69.9	61.1	4.8
Central Equipment Not Used	Q	Q	Q	Q	Q	NF
Room Air Conditioners Not Used ..	0.6	Q	Q	Q	Q	85.5
Households Using Electric Air-Conditioning¹	62.9	58.5	57.2	68.8	61.1	4.8
Type of Electric Air-Conditioning Used						
Central Air-Conditioning ²	34.3	29.7	25.9	41.7	24.4	10.3
Without a Heat Pump	26.3	21.2	22.3	32.9	14.6	12.8
With a Heat Pump	8.0	8.5	Q	8.8	Q	NF
Room Air-Conditioning	28.6	28.8	31.3	27.0	36.6	8.9
1 Unit	21.5	18.6	26.2	22.0	27.2	11.0
2 Units	6.1	8.3	5.1	4.4	Q	20.1
3 or More Units	1.0	1.9	Q	Q	Q	39.1
Clothes Washer	45.0	75.4	35.2	20.2	68.6	6.7
Clothes Dryer	37.2	64.5	23.5	16.7	54.9	8.9
Electric	31.1	51.6	19.6	15.6	52.0	10.2
Natural Gas	5.9	12.6	3.9	Q	Q	21.8
LPG	Q	Q	Q	Q	Q	NF
Dishwasher	32.0	31.5	15.6	39.4	Q	11.0
Ceiling Fans	36.4	48.8	25.9	29.7	26.8	9.0
1	22.8	22.9	20.2	23.5	23.0	11.2
2	7.0	12.5	3.0	3.8	Q	20.1
3 or more	6.6	13.4	2.7	2.4	Q	22.9
Freezer	11.4	21.1	10.0	3.1	16.9	15.2
1	11.2	20.6	10.0	3.1	16.9	15.3
2 or more	Q	Q	Q	Q	Q	NF
Most-Used Freezer Defrost Method						
Frost-Free	4.0	7.2	Q	1.7	Q	27.8
Manual	7.5	13.9	8.6	1.4	Q	17.8
Type of Freezer						
Upright	4.6	9.2	Q	Q	Q	18.8
Chest	6.9	11.9	7.3	2.4	Q	21.1
Age of Freezer						
Less than 2 Years	1.3	2.0	Q	Q	Q	36.6
2 to 4 Years	1.8	2.6	Q	1.1	Q	35.0
5 to 9 Years	3.2	6.5	3.0	Q	Q	25.3
10 to 19 Years	3.5	7.4	Q	Q	Q	18.3
20 Years or More	0.9	1.8	Q	Q	Q	38.9
Don't Know	0.7	Q	Q	Q	Q	46.3

See footnotes at end of table.

**Table HC5-6b. Appliances by Type of Rented Housing Unit,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.7	1.4	1.0	1.9	
Freezer Size						
Very Small (Less than 11 cf)	1.7	2.6	Q	Q	Q	34.5
Small (11-14 cf)	3.0	5.5	Q	1.0	Q	25.9
Medium (15-18 cf)	3.5	6.5	3.6	1.2	Q	27.7
Large (19-22 cf)	2.8	5.7	Q	Q	Q	28.1
Very Large (23 or More cf)	Q	Q	Q	Q	Q	NF
Heaters (other)						
Hot Tub or Spa	0.5	Q	Q	Q	Q	78.9
Electric	Q	Q	Q	Q	Q	NF
Natural Gas	Q	Q	Q	Q	Q	NF
LPG/Other	Q	Q	Q	Q	Q	NF
Portable Space	10.5	14.0	10.0	7.2	17.0	13.9
Electric	9.4	11.9	9.2	7.1	Q	14.6
Kerosene	1.2	2.5	Q	Q	Q	39.0
Swimming Pool	Q	Q	Q	Q	Q	NF
Natural Gas	Q	Q	Q	Q	Q	NF
Electric/LPG/Other	Q	Q	Q	Q	Q	NF
Waterbed Heaters	6.1	8.4	6.2	3.9	Q	20.0
1	5.0	6.0	5.3	3.9	Q	22.0
2 or More	1.0	2.4	Q	Q	Q	44.4
Waterbed Heaters Used All Year	5.1	7.2	3.9	3.6	Q	22.5
1	4.3	5.3	3.7	3.6	Q	24.5
2 or More	0.8	1.9	Q	Q	Q	47.5
Oven	98.3	98.1	98.6	98.5	97.8	0.8
Electric	57.6	51.6	51.8	65.0	52.5	5.8
Natural Gas	38.5	43.2	45.6	33.5	21.3	8.8
LPG	2.2	3.2	Q	Q	24.0	26.7
Other	Q	Q	Q	Q	Q	NF
Self-Cleaning Oven	19.7	27.7	10.1	16.4	Q	12.3
Continuous	5.2	5.7	Q	5.7	Q	22.0
Manual Start	14.5	22.0	7.2	10.7	Q	13.9
Pumps (Electric)	5.7	12.2	Q	Q	23.6	18.9
Hot Tub or Spa	0.5	Q	Q	Q	Q	78.9
Swimming Pool	0.7	1.9	Q	Q	Q	43.1
Well Water	4.8	9.8	Q	Q	23.6	20.8
Range	98.6	98.4	98.8	98.7	98.9	0.6
Electric	57.4	51.1	51.8	64.9	52.5	5.8
Natural Gas	39.0	44.1	45.8	33.7	21.3	8.8
LPG	2.3	3.2	Q	Q	25.1	26.2
Other	Q	Q	Q	Q	Q	NF
Refrigerators	99.7	99.8	100.0	99.5	100.0	NF
1	95.6	91.7	98.6	98.0	95.8	1.8
2 or More	4.1	8.0	Q	1.5	Q	22.2

See footnotes at end of table.

**Table HC5-6b. Appliances by Type of Rented Housing Unit,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.7	1.4	1.0	1.9	
Most-Used Refrigerator						
Defrost Method						
Frost-Free	76.0	82.1	65.2	74.4	72.7	3.2
Manual	23.7	17.7	34.8	25.1	27.3	9.4
Type of Refrigerator						
2-Doors (top and bottom)	76.5	76.0	75.7	77.3	75.1	3.4
2-Doors (side-by-side)	6.0	9.9	3.5	3.5	Q	18.3
Regular (single door)	16.2	12.8	19.4	17.9	19.1	13.2
Half-Size/Other	1.0	Q	Q	Q	Q	43.6
Age of Refrigerator						
Less than 2 Years	14.2	15.3	12.2	14.3	Q	12.9
2 to 4 Years	21.4	20.5	23.1	22.4	11.8	10.9
5 to 9 Years	26.7	28.5	25.9	24.9	33.3	8.4
10 to 19 Years	19.2	22.1	20.0	16.1	23.1	10.9
20 Years or More	6.0	5.4	6.3	6.6	Q	19.1
Don't Know	12.2	8.0	12.5	15.2	19.8	13.7
Size of Refrigerator						
Very Small (Less than 11 cf)	1.4	1.1	Q	1.8	Q	30.6
Small (11-14 cf)	13.7	9.0	15.7	16.8	16.7	13.5
Medium (15-18 cf)	58.3	55.4	56.9	60.6	66.8	4.0
Large (19-22 cf)	25.8	33.2	25.9	20.0	16.5	9.3
Very Large (23 or More cf)	Q	Q	Q	Q	Q	NF
Through-the-Door Ice/Water Service						
Yes	2.3	5.4	Q	Q	Q	NF
No	97.7	94.6	99.9	99.7	98.0	1.1
Color Television Sets						
1	97.9	98.8	96.3	97.5	100.0	0.8
2	49.0	37.4	52.9	56.9	59.4	5.4
3	34.1	35.5	29.6	34.5	32.3	7.3
4	11.8	19.5	12.5	5.3	Q	13.0
5 or More	2.2	4.5	Q	Q	Q	28.3
5 or More	0.8	1.8	Q	Q	Q	50.4
Video Cassette Recorders (VCR's)						
1	82.6	85.9	76.3	81.3	90.8	2.1
2	59.8	58.0	54.7	62.6	65.1	4.4
3 or More	19.2	21.2	20.2	16.8	23.3	10.4
3 or More	3.7	6.7	Q	1.9	Q	27.6
Water Heaters						
Electric	100.0	100.0	100.0	100.0	100.0	NE
For One Housing Unit	40.2	34.5	36.3	43.7	77.5	7.1
For Two or More Units	35.7	33.9	31.9	35.5	77.5	7.6
Natural Gas	4.5	Q	4.4	8.2	Q	19.2
For One Housing Unit	50.3	58.5	57.6	43.8	Q	6.4
For Two or More Units	35.3	53.7	40.9	19.5	Q	10.1
Fuel Oil	15.0	4.8	16.7	24.3	Q	16.3
For One Housing Unit	6.4	2.9	5.5	10.2	Q	20.4
For Two or More Units	1.4	2.3	Q	Q	Q	36.2
LPG	5.0	Q	4.9	9.1	Q	19.3
Other	1.9	3.6	Q	Q	12.4	27.4
No Water Heater	0.9	Q	Q	1.8	Q	51.7
No Water Heater	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table HC5-6b. Appliances by Type of Rented Housing Unit,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.7	1.4	1.0	1.9	
Water Heater (for one housing unit)	74.4	93.3	74.0	56.3	100.0	3.7
Age						
Less than 2 Years	8.3	12.4	5.6	4.8	19.1	16.5
2 to 4 Years	12.7	17.0	15.4	8.3	Q	12.2
5 to 9 Years	17.6	22.6	19.2	12.9	15.8	13.8
10 to 19 Years	12.3	17.3	9.2	8.5	19.2	15.3
20 Years or More	5.5	8.2	3.4	3.5	Q	21.8
Don't Know	14.0	14.2	17.9	11.8	23.7	14.5
No Separate Heater	4.0	1.6	3.3	6.5	Q	29.6
No Water Heater	Q	Q	Q	Q	Q	NF
Water Heaters for						
Two or More Units	25.3	6.3	26.0	43.3	Q	13.0
Size						
Small	17.5	17.1	17.8	15.7	46.9	10.9
Medium	35.2	51.4	31.8	21.8	43.5	7.5
Large	11.5	18.1	11.5	6.2	Q	16.7
Don't Know	6.2	5.2	9.6	6.1	Q	20.8
No Separate Heater	4.0	1.6	3.3	6.5	Q	29.6
No Water Heater	Q	Q	Q	Q	Q	NF
Water Heaters for						
Two or More Units	25.3	6.3	26.0	43.3	Q	13.0
Other Appliances						
Heated Aquarium	3.4	4.0	Q	3.2	Q	24.1
Microwave Oven	73.3	78.4	66.2	71.2	73.0	3.1
Outdoor Gas Light ²	Q	Q	Q	Q	Q	NF
Rechargeable Tools/ or Appliances	25.5	33.9	16.2	21.7	19.4	9.7
Stereo Equipment	68.2	72.4	64.2	66.3	62.6	3.9

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC5-7b. Appliances by Four Most Populated States,
Percent of U.S. Households, 1997**

Appliance Types and Characteristics	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
		0.4	1.3	1.2	1.2	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Households With Electric Air-Conditioning Equipment	72.5	62.6	41.4	91.7	96.0	3.5
Central Equipment Not Used	0.3	Q	1.2	0.5	1.1	29.3
Room Air Conditioners Not Used	0.7	Q	Q	Q	1.1	36.9
Households Using Electric Air-Conditioning¹	71.6	62.2	39.9	91.2	94.3	3.3
Type of Electric Air-Conditioning Used						
Central Air-Conditioning ²	46.8	18.5	27.7	68.6	82.1	5.4
Without a Heat Pump	36.4	17.2	24.8	58.8	41.9	10.6
With a Heat Pump	10.4	1.3	2.9	9.8	40.1	21.2
Room Air-Conditioning	24.8	43.8	12.2	22.6	12.3	10.7
1 Unit	14.7	22.8	11.1	9.6	7.9	12.5
2 Units	7.1	14.2	1.0	7.6	2.5	17.8
3 or More Units	3.0	6.8	Q	5.3	1.9	25.7
Clothes Washer	77.4	66.6	60.7	73.0	81.8	4.3
Clothes Dryer	71.2	54.5	57.1	69.6	73.7	4.1
Electric	55.1	37.4	30.6	55.3	70.3	6.2
Natural Gas	15.2	16.4	26.2	14.1	2.7	15.4
LPG	0.8	0.6	Q	Q	Q	34.2
Dishwasher	50.2	46.0	47.5	54.7	58.0	6.1
Ceiling Fans	60.1	50.4	41.1	74.6	74.5	3.6
1	23.3	29.4	21.0	14.8	12.2	7.2
2	13.8	8.8	9.7	18.0	14.8	11.4
3 or more	23.0	12.2	10.4	41.8	47.4	8.2
Freezer	33.2	21.2	14.4	30.2	24.8	8.2
1	30.2	18.5	13.6	27.1	23.8	9.0
2 or more	2.9	Q	Q	3.0	1.0	23.0
Most-Used Freezer Defrost Method						
Frost-Free	10.5	6.6	5.4	9.8	9.4	15.6
Manual	22.6	14.6	9.0	20.4	15.4	7.7
Type of Freezer						
Upright	16.3	13.6	11.8	13.1	17.3	8.1
Chest	16.9	7.6	2.6	17.0	7.5	17.0
Age of Freezer						
Less than 2 Years	2.4	Q	0.6	2.7	Q	26.9
2 to 4 Years	4.1	1.9	1.8	4.3	3.5	28.5
5 to 9 Years	7.4	4.9	4.2	7.4	5.0	13.2
10 to 19 Years	12.2	7.2	4.9	12.0	9.8	13.5
20 Years or More	6.6	5.2	2.9	3.4	Q	24.7
Don't Know	0.5	Q	Q	Q	Q	46.6

See footnotes at end of table.

**Table HC5-7b. Appliances by Four Most Populated States,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Four Most Populated States					RSE Row Factors
	Total	New York	California	Texas	Florida	
	0.4	1.3	1.2	1.2	1.4	
Freezer Size						
Very Small (Less than 11 cf)	2.7	1.2	1.0	3.0	1.5	32.0
Small (11-14 cf)	6.6	3.6	2.3	6.3	3.9	22.3
Medium (15-18 cf)	13.3	7.1	6.2	11.7	10.0	12.5
Large (19-22 cf)	8.9	7.7	3.5	7.6	8.4	14.9
Very Large (23 or More cf)	1.7	1.6	1.4	Q	Q	21.4
Heaters (other)						
Hot Tub or Spa	3.9	3.5	6.7	5.4	8.3	23.0
Electric	2.6	3.0	3.8	3.5	3.0	28.3
Natural Gas	1.1	Q	2.6	Q	Q	34.6
LPG/Other	0.1	Q	Q	Q	Q	NF
Portable Space	13.9	11.2	11.2	14.8	9.5	11.2
Electric	12.1	10.5	10.9	14.3	8.4	10.6
Kerosene	2.0	Q	Q	Q	Q	24.5
Swimming Pool	1.1	Q	1.7	1.7	Q	31.8
Natural Gas	0.7	0.7	1.4	1.7	Q	33.1
Electric/LPG/Other	0.4	Q	Q	Q	Q	70.4
Waterbed Heaters	8.3	5.5	3.3	8.5	9.4	17.5
1	6.8	5.2	Q	7.2	7.3	20.4
2 or More	1.4	Q	0.8	1.4	2.0	18.1
Waterbed Heaters						
Used All Year	7.3	5.0	3.3	7.2	9.4	19.8
1	6.4	4.6	Q	6.2	8.4	20.1
2 or More	1.0	Q	0.8	1.0	1.0	23.6
Oven	98.8	99.3	97.5	99.0	98.5	NF
Electric	61.4	35.2	42.5	59.9	89.2	3.9
Natural Gas	33.3	57.2	52.8	35.7	5.6	6.9
LPG	4.1	6.9	2.3	3.4	3.7	23.3
Other	Q	Q	Q	Q	Q	NF
Self-Cleaning Oven	44.1	43.3	36.8	41.3	46.8	6.6
Continuous	9.9	10.9	8.6	11.2	8.0	12.7
Manual Start	34.1	32.4	28.2	30.1	38.8	7.6
Pumps (Electric)	19.8	19.3	11.5	12.3	34.9	10.7
Hot Tub or Spa	4.0	3.7	6.7	5.4	8.3	22.5
Swimming Pool	5.4	8.5	4.1	5.0	15.0	15.6
Well Water	14.1	10.7	3.4	5.1	28.2	22.6
Range	99.2	99.6	98.6	99.0	99.2	NF
Electric	60.2	34.7	39.0	56.4	89.7	4.2
Natural Gas	34.7	58.0	56.8	39.0	5.8	6.8
LPG	4.3	6.9	2.8	3.6	3.7	24.6
Other	Q	Q	Q	Q	Q	NF
Refrigerators	99.8	99.8	99.7	100.0	100.0	NF
1	84.7	88.6	84.2	85.4	88.6	1.7
2 or More	15.2	11.1	15.5	14.6	11.4	10.8

See footnotes at end of table.

**Table HC5-7b. Appliances by Four Most Populated States,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
		0.4	1.3	1.2	1.2	
Most-Used Refrigerator						
Defrost Method						
Frost-Free	86.8	83.1	84.0	91.2	93.4	1.3
Manual	13.1	16.7	15.7	8.8	6.6	10.8
Type of Refrigerator						
2-Doors (top and bottom)	68.0	71.9	54.5	63.9	63.7	4.5
2-Doors (side-by-side)	20.4	15.0	29.6	26.3	23.9	11.2
Regular (single door)	10.7	12.4	14.6	8.6	11.3	14.4
Half-Size/Other	0.7	0.4	1.0	Q	Q	34.3
Age of Refrigerator						
Less than 2 Years	13.2	13.0	13.8	14.9	11.4	11.6
2 to 4 Years	21.0	23.0	18.5	24.8	17.1	9.0
5 to 9 Years	29.9	26.1	32.9	30.2	33.5	7.4
10 to 19 Years	23.8	23.5	24.3	20.3	25.7	6.2
20 Years or More	7.0	7.5	6.2	5.8	3.9	15.5
Don't Know	5.0	6.6	4.0	4.0	8.4	18.3
Size of Refrigerator						
Very Small (Less than 11 cf)	0.9	Q	1.0	Q	Q	34.5
Small (11-14 cf)	7.6	10.3	11.7	6.6	11.5	10.7
Medium (15-18 cf)	45.0	47.6	35.3	40.2	37.6	5.2
Large (19-22 cf)	44.8	40.5	50.1	50.1	49.9	5.7
Very Large (23 or More cf)	1.5	Q	1.6	2.0	Q	26.1
Through-the-Door Ice/Water Service						
Yes	13.0	8.4	17.5	18.0	18.2	14.7
No	87.0	91.6	82.5	82.0	81.8	2.7
Color Television Sets						
1	98.7	99.6	98.0	97.7	98.1	NF
2	31.8	31.2	34.7	30.2	25.0	7.5
3	37.4	39.3	38.2	37.0	40.7	4.5
4	19.1	19.2	18.2	19.2	18.6	8.4
5 or More	7.7	7.9	5.3	7.8	11.4	16.6
5 or More	2.7	2.1	1.5	3.5	2.4	24.1
Video Cassette Recorders (VCR's)						
1	87.6	86.0	89.5	86.5	81.6	1.7
2	55.5	59.5	58.5	50.9	45.4	4.2
3 or More	24.9	19.8	24.5	26.8	27.9	7.9
3 or More	7.2	6.8	6.5	8.8	8.2	15.6
Water Heaters						
Electric	100.0	100.0	100.0	100.0	100.0	NE
For One Housing Unit	39.1	14.8	15.7	34.6	78.8	10.8
For Two or More Units	37.3	13.7	13.9	29.9	77.7	11.3
Natural Gas	1.8	Q	1.7	4.7	1.1	27.8
For One Housing Unit	51.9	48.6	80.9	61.5	15.6	8.0
For Two or More Units	45.8	35.1	69.0	59.4	13.0	9.6
Fuel Oil	6.1	13.5	11.9	Q	2.6	16.8
For One Housing Unit	5.1	32.6	Q	Q	Q	15.5
For Two or More Units	3.1	13.0	Q	Q	Q	23.9
LPG	2.0	19.7	Q	Q	Q	14.4
Other	3.2	3.0	2.7	3.6	2.5	24.5
No Water Heater	0.7	Q	Q	Q	Q	57.2
No Water Heater	0.2	0.4	0.3	Q	Q	41.2

See footnotes at end of table.

**Table HC5-7b. Appliances by Four Most Populated States,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
		0.4	1.3	1.2	1.2	
RSE Column Factor:	0.4	1.3	1.2	1.2	1.4	
Water Heater (for one housing unit)	89.7	65.0	85.7	93.0	95.3	2.0
Age						
Less than 2 Years	11.1	9.0	8.1	10.9	6.8	15.4
2 to 4 Years	16.8	12.9	12.3	26.7	16.1	10.7
5 to 9 Years	25.0	16.6	23.8	27.2	33.9	7.8
10 to 19 Years	19.9	12.4	20.9	15.7	20.7	11.0
20 Years or More	7.0	3.2	11.0	4.1	4.9	17.2
Don't Know	7.0	2.8	7.1	7.5	12.5	13.6
No Separate Heater	2.9	8.1	2.5	Q	Q	24.5
No Water Heater	0.2	0.4	0.3	Q	Q	41.2
Water Heaters for						
Two or More Units	10.1	34.7	14.0	6.8	3.9	15.9
Size						
Small	15.3	8.0	12.8	18.4	25.0	11.3
Medium	46.4	31.2	40.6	51.0	47.0	6.5
Large	21.3	15.3	25.9	20.3	17.7	9.5
Don't Know	3.7	2.3	4.0	2.3	Q	24.8
No Separate Heater	2.9	8.1	2.5	Q	Q	24.5
No Water Heater	0.2	0.4	0.3	Q	Q	41.2
Water Heaters for						
Two or More Units	10.1	34.7	14.0	6.8	3.9	15.9
Other Appliances						
Heated Aquarium	3.8	4.4	4.7	1.8	4.2	17.2
Microwave Oven	83.0	75.9	82.1	79.7	84.0	2.1
Outdoor Gas Light ²	0.7	Q	Q	1.0	Q	27.9
Rechargeable Tools/ or Appliances	43.7	38.9	43.7	46.0	42.1	5.1
Stereo Equipment	68.8	68.6	73.1	72.6	73.0	2.0

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC5-8b. Appliances by Urban/Rural Location,
Percent of U.S. Households, 1997**

Appliance Types and Characteristics	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
		0.6	0.9	1.3	1.2	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Households With Electric Air-Conditioning Equipment	72.5	69.8	72.8	80.7	70.8	2.3
Central Equipment Not Used	0.3	0.5	Q	Q	Q	27.6
Room Air Conditioners Not Used	0.7	0.7	0.6	Q	Q	28.5
Households Using Electric Air-Conditioning²	71.6	68.7	72.1	79.9	70.1	2.4
Type of Electric Air-Conditioning Used						
Central Air-Conditioning ³	46.8	42.5	42.7	64.3	44.1	3.8
Without a Heat Pump	36.4	34.0	35.5	49.2	29.7	5.3
With a Heat Pump	10.4	8.5	7.2	15.1	14.4	11.3
Room Air-Conditioning	24.8	26.2	29.4	15.7	26.0	6.0
1 Unit	14.7	16.2	16.4	9.2	14.4	8.0
2 Units	7.1	6.9	9.6	4.5	8.2	10.4
3 or More Units	3.0	3.1	3.4	2.0	3.4	16.3
Clothes Washer	77.4	67.5	80.9	88.4	90.1	1.7
Clothes Dryer	71.2	59.8	74.6	85.0	84.9	2.0
Electric	55.1	42.6	61.6	62.5	76.3	2.9
Natural Gas	15.2	17.0	12.5	22.3	5.0	10.1
LPG	0.8	0.2	0.5	Q	3.6	27.7
Dishwasher	50.2	42.2	48.8	71.9	50.6	3.2
Ceiling Fans	60.1	54.5	58.8	67.8	69.2	2.6
1	23.3	21.7	23.5	23.9	26.8	5.4
2	13.8	12.8	14.9	16.1	13.0	6.8
3 or more	23.0	20.0	20.4	27.8	29.4	5.3
Freezer	33.2	24.8	35.2	32.2	56.5	4.3
1	30.2	23.1	32.0	29.9	49.7	4.6
2 or more	2.9	1.7	3.3	2.4	6.8	13.6
Most-Used Freezer Defrost Method						
Frost-Free	10.5	8.1	11.0	10.9	16.8	7.0
Manual	22.6	16.7	24.3	21.3	39.7	5.3
Type of Freezer						
Upright	16.3	13.0	15.8	19.9	22.5	5.5
Chest	16.9	11.8	19.5	12.3	34.0	6.4
Age of Freezer						
Less than 2 Years	2.4	1.6	2.5	1.8	5.2	16.6
2 to 4 Years	4.1	3.8	3.8	3.5	6.2	13.8
5 to 9 Years	7.4	5.9	7.8	7.7	11.1	9.7
10 to 19 Years	12.2	9.3	12.2	11.4	21.3	7.1
20 Years or More	6.6	3.9	8.6	7.1	11.5	10.8
Don't Know	0.5	0.3	Q	0.6	1.2	33.5

See footnotes at end of table.

**Table HC5-8b. Appliances by Urban/Rural Location,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
		0.6	0.9	1.3	1.2	
RSE Column Factor:	0.6	0.9	1.3	1.2	1.2	
Freezer Size						
Very Small (Less than 11 cf)	2.7	2.4	3.0	2.6	3.2	16.0
Small (11-14 cf)	6.6	4.5	7.9	7.1	10.7	9.8
Medium (15-18 cf)	13.3	10.4	13.8	12.0	22.6	7.7
Large (19-22 cf)	8.9	6.3	8.9	8.7	16.7	8.4
Very Large (23 or More cf)	1.7	1.1	1.7	1.8	3.3	19.7
Heaters (other)						
Hot Tub or Spa	3.9	2.4	3.9	6.7	5.2	15.3
Electric	2.6	1.7	2.7	3.9	3.9	16.2
Natural Gas	1.1	0.7	1.2	2.7	Q	30.5
LPG/Other	0.1	Q	Q	Q	0.5	NF
Portable Space	13.9	11.3	14.8	18.0	16.0	7.2
Electric	12.1	10.1	13.2	15.8	12.8	8.1
Kerosene	2.0	1.4	1.7	2.3	3.8	17.0
Swimming Pool	1.1	0.6	0.7	2.2	1.7	33.9
Natural Gas	0.7	0.3	Q	2.0	Q	41.7
Electric/LPG/Other	0.4	0.3	Q	Q	1.2	41.6
Waterbed Heaters	8.3	6.4	9.8	9.3	10.7	9.9
1	6.8	5.4	8.2	7.2	9.1	11.1
2 or More	1.4	1.0	1.6	2.1	1.7	19.2
Waterbed Heaters						
Used All Year	7.3	5.8	8.2	8.5	9.7	10.2
1	6.4	5.1	6.9	7.3	8.4	11.3
2 or More	1.0	0.7	1.3	1.2	1.3	21.0
Oven	98.8	98.5	99.1	99.4	98.7	NF
Electric	61.4	53.9	68.6	65.6	70.6	2.7
Natural Gas	33.3	43.7	26.2	32.4	11.3	6.4
LPG	4.1	0.8	4.3	1.4	16.7	17.6
Other	Q	Q	Q	Q	Q	NF
Self-Cleaning Oven	44.1	37.0	45.9	58.1	47.0	3.4
Continuous	9.9	8.7	9.1	13.0	10.9	8.4
Manual Start	34.1	28.2	36.8	45.1	36.0	4.2
Pumps (Electric)	19.8	7.9	15.8	19.5	59.7	7.1
Hot Tub or Spa	4.0	2.4	4.1	6.7	5.3	15.2
Swimming Pool	5.4	3.4	3.8	9.0	8.9	11.4
Well Water	14.1	3.1	10.5	9.9	55.2	11.6
Range	99.2	99.0	99.0	99.3	99.7	NF
Electric	60.2	53.2	67.3	63.1	69.5	2.8
Natural Gas	34.7	45.0	27.5	34.9	12.1	6.2
LPG	4.3	0.8	4.3	1.4	17.9	17.5
Other	Q	Q	Q	Q	Q	NF
Refrigerators	99.8	99.8	99.8	100.0	99.8	NF
1	84.7	88.1	85.5	78.0	81.3	1.4
2 or More	15.2	11.7	14.3	22.0	18.5	6.3

See footnotes at end of table.

**Table HC5-8b. Appliances by Urban/Rural Location,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
		0.6	0.9	1.3	1.2	
Most-Used Refrigerator						
Defrost Method						
Frost-Free	86.8	84.1	87.1	92.5	87.9	1.1
Manual	13.1	15.7	12.7	7.5	11.9	8.1
Type of Refrigerator						
2-Doors (top and bottom)	68.0	67.2	72.9	67.2	65.5	2.0
2-Doors (side-by-side)	20.4	18.2	17.4	25.1	24.9	5.8
Regular (single door)	10.7	13.5	8.8	6.9	8.7	10.6
Half-Size/Other	0.7	0.9	0.6	0.6	0.6	29.6
Age of Refrigerator						
Less than 2 Years	13.2	13.4	12.4	13.7	13.1	6.5
2 to 4 Years	21.0	20.8	20.9	21.4	21.7	4.9
5 to 9 Years	29.9	29.5	32.2	29.2	28.9	4.4
10 to 19 Years	23.8	22.7	23.0	25.7	25.8	4.5
20 Years or More	7.0	7.5	6.3	5.3	8.0	9.1
Don't Know	5.0	6.0	4.9	4.6	2.3	15.8
Size of Refrigerator						
Very Small (Less than 11 cf)	0.9	1.0	0.9	0.6	1.2	25.0
Small (11-14 cf)	7.6	9.2	7.6	5.3	5.7	9.5
Medium (15-18 cf)	45.0	45.3	48.1	42.2	44.0	2.9
Large (19-22 cf)	44.8	43.4	41.4	49.3	47.9	3.3
Very Large (23 or More cf)	1.5	1.1	1.8	2.6	1.2	19.6
Through-the-Door Ice/Water Service						
Yes	13.0	10.4	11.8	17.0	17.3	8.2
No	87.0	89.6	88.2	83.0	82.7	1.4
Color Television Sets						
1	98.7	98.3	99.4	99.3	98.4	NF
2	31.8	33.7	35.3	21.8	33.9	4.1
3	37.4	38.6	33.8	38.9	36.0	3.5
4	19.1	17.5	18.9	24.1	18.5	5.7
5 or More	7.7	6.3	8.6	10.0	7.9	9.9
5 or More	2.7	2.2	2.8	4.6	2.1	15.7
Video Cassette Recorders (VCR's)						
1	87.6	85.6	87.1	91.5	89.5	1.1
2	55.5	54.2	57.7	52.2	60.9	2.6
3 or More	24.9	24.7	22.0	29.5	23.4	5.3
3 or More	7.2	6.7	7.5	9.8	5.2	10.1
Water Heaters						
Electric	100.0	100.0	100.0	100.0	100.0	NE
For One Housing Unit	39.1	30.9	41.8	35.6	63.8	4.6
For Two or More Units	37.3	28.8	40.6	33.6	62.5	4.7
Natural Gas	1.8	2.1	1.2	2.0	1.3	22.7
For One Housing Unit	51.9	63.2	47.8	58.7	15.5	4.8
For Two or More Units	45.8	53.7	43.6	55.6	14.2	5.2
Fuel Oil	6.1	9.5	4.3	3.2	1.3	15.5
For One Housing Unit	5.1	4.5	6.4	4.7	5.7	13.3
For Two or More Units	3.1	1.2	5.2	4.4	4.8	17.0
LPG	2.0	3.2	1.2	Q	0.9	18.5
Other	3.2	0.6	3.5	0.5	13.3	20.3
No Water Heater	0.7	0.7	Q	0.5	1.2	34.7
No Water Heater	0.2	0.1	Q	Q	Q	48.3

See footnotes at end of table.

**Table HC5-8b. Appliances by Urban/Rural Location,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
		0.6	0.9	1.3	1.2	
RSE Column Factor:	0.6	0.9	1.3	1.2	1.2	
Water Heater (for one housing unit)	89.7	84.5	93.1	94.5	95.9	1.1
Age						
Less than 2 Years	11.1	10.2	11.6	11.3	13.0	7.7
2 to 4 Years	16.8	15.7	17.4	16.9	19.2	5.6
5 to 9 Years	25.0	22.6	25.6	30.1	25.3	4.7
10 to 19 Years	19.9	18.0	20.8	21.8	22.7	5.7
20 Years or More	7.0	7.1	8.1	4.3	8.5	10.0
Don't Know	7.0	8.5	6.2	6.7	4.2	10.7
No Separate Heater	2.9	2.5	3.4	3.5	3.1	17.3
No Water Heater	0.2	0.1	Q	Q	Q	48.3
Water Heaters for						
Two or More Units	10.1	15.3	6.8	5.5	3.6	12.5
Size						
Small	15.3	16.0	15.2	11.0	18.0	7.3
Medium	46.4	44.5	49.1	50.2	44.8	3.3
Large	21.3	17.0	22.3	26.6	27.0	6.0
Don't Know	3.7	4.4	3.1	3.2	3.0	17.4
No Separate Heater	2.9	2.5	3.4	3.5	3.1	17.3
No Water Heater	0.2	0.1	Q	Q	Q	48.3
Water Heaters for						
Two or More Units	10.1	15.3	6.8	5.5	3.6	12.5
Other Appliances						
Heated Aquarium	3.8	3.2	3.7	4.3	5.2	12.9
Microwave Oven	83.0	78.6	86.5	88.1	85.9	1.5
Outdoor Gas Light ³	0.7	0.7	0.7	0.7	0.6	30.9
Rechargeable Tools/ or Appliances	43.7	37.0	45.2	54.1	50.3	3.0
Stereo Equipment	68.8	67.3	65.9	79.5	64.3	1.7

¹ Based on the household respondent's description rather than the Federal Government definition.

² The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

³ Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC5-9b. Appliances by Northeast Census Region,
Percent of U.S. Households, 1997**

Appliance Types and Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.3	1.5	
Total	100.0	100.0	100.0	100.0	0.0
Households With Electric					
Air-Conditioning Equipment	72.5	63.3	68.6	48.8	3.8
Central Equipment Not Used	0.3	Q	Q	Q	40.2
Room Air Conditioners Not Used	0.7	1.5	1.4	Q	29.5
Households Using Electric					
Air-Conditioning¹	71.6	61.7	67.2	46.9	4.2
Type of Electric Air-Conditioning Used					
Central Air-Conditioning ²	46.8	22.1	27.5	7.7	11.2
Without a Heat Pump	36.4	19.7	24.5	6.7	13.6
With a Heat Pump	10.4	2.5	3.0	Q	26.0
Room Air-Conditioning	24.8	39.6	39.7	39.2	7.4
1 Unit	14.7	20.3	19.6	21.9	9.3
2 Units	7.1	13.6	14.3	11.7	10.7
3 or More Units	3.0	5.7	5.8	5.6	19.0
Clothes Washer	77.4	76.0	76.5	74.5	2.2
Clothes Dryer	71.2	66.7	67.2	65.2	2.3
Electric	55.1	48.3	46.1	54.3	5.0
Natural Gas	15.2	17.7	20.7	9.3	15.2
LPG	0.8	0.7	Q	Q	25.9
Dishwasher	50.2	48.5	48.9	47.5	3.9
Ceiling Fans	60.1	51.2	53.4	45.5	2.9
1	23.3	26.0	27.0	23.3	4.4
2	13.8	11.9	12.1	11.2	7.8
3 or more	23.0	13.3	14.2	11.0	8.3
Freezer	33.2	25.7	27.2	21.9	6.4
1	30.2	24.2	25.4	21.0	6.7
2 or more	2.9	1.5	1.7	Q	25.3
Most-Used Freezer					
Defrost Method					
Frost-Free	10.5	7.5	7.6	7.2	6.9
Manual	22.6	18.3	19.6	14.7	7.6
Type of Freezer					
Upright	16.3	13.9	14.6	12.0	5.3
Chest	16.9	11.8	12.5	9.9	11.7
Age of Freezer					
Less than 2 Years	2.4	2.2	2.1	2.5	22.5
2 to 4 Years	4.1	2.6	2.6	2.7	16.5
5 to 9 Years	7.4	5.3	5.2	5.5	14.5
10 to 19 Years	12.2	9.8	11.0	6.6	10.2
20 Years or More	6.6	5.4	5.8	4.5	13.6
Don't Know	0.5	Q	Q	Q	37.3

See footnotes at end of table.

**Table HC5-9b. Appliances by Northeast Census Region,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.3	1.5	
Freezer Size					
Very Small (Less than 11 cf)	2.7	3.0	2.3	4.9	21.1
Small (11-14 cf)	6.6	5.4	5.7	4.5	14.0
Medium (15-18 cf)	13.3	9.0	9.8	6.7	7.6
Large (19-22 cf)	8.9	6.8	7.3	5.2	9.9
Very Large (23 or More cf)	1.7	1.7	2.0	Q	19.2
Heaters (other)					
Hot Tub or Spa	3.9	2.8	3.6	Q	18.3
Electric	2.6	2.4	3.2	Q	20.7
Natural Gas	1.1	Q	Q	Q	50.3
LPG/Other	Q	Q	Q	Q	NF
Portable Space	13.9	12.6	13.5	10.1	9.3
Electric	12.1	10.8	11.8	8.1	9.7
Kerosene	2.0	1.9	1.8	2.2	19.9
Swimming Pool	1.1	0.8	Q	Q	36.8
Natural Gas	0.7	Q	Q	Q	50.7
Electric/LPG/Other	0.4	Q	Q	Q	56.3
Waterbed Heaters	8.3	6.1	6.2	6.1	12.5
1	6.8	5.4	5.6	5.0	13.7
2 or More	1.4	Q	Q	Q	20.8
Waterbed Heaters Used All Year	7.3	5.5	5.7	5.2	14.6
1	6.4	4.8	5.1	4.1	16.6
2 or More	1.0	Q	Q	Q	21.7
Oven	98.8	99.4	99.4	99.5	NF
Electric	61.4	49.3	43.4	65.1	5.5
Natural Gas	33.3	45.0	51.8	26.5	8.6
LPG	4.1	5.1	4.1	7.9	20.6
Other	Q	Q	Q	Q	NF
Self-Cleaning Oven	44.1	48.5	46.9	52.7	4.6
Continuous	9.9	9.6	10.5	7.0	10.4
Manual Start	34.1	38.9	36.4	45.8	5.6
Pumps (Electric)	19.8	26.1	23.5	33.1	9.4
Hot Tub or Spa	4.0	3.0	3.7	Q	17.6
Swimming Pool	5.4	7.6	6.9	9.6	9.3
Well Water	14.1	18.9	16.4	25.6	13.6
Range	99.2	99.7	99.5	100.0	NF
Electric	60.2	48.3	42.4	64.5	5.5
Natural Gas	34.7	45.7	52.5	27.2	8.3
LPG	4.3	5.6	4.6	8.4	19.7
Other	Q	Q	Q	Q	NF
Refrigerators	99.8	99.9	99.9	100.0	NF
1	84.7	84.6	84.5	84.8	1.6
2 or More	15.2	15.3	15.4	15.2	8.6

See footnotes at end of table.

**Table HC5-9b. Appliances by Northeast Census Region,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.3	1.5	
Most-Used Refrigerator					
Defrost Method					
Frost-Free	86.8	85.2	85.7	83.7	1.5
Manual	13.1	14.7	14.2	16.3	6.2
Type of Refrigerator					
2-Doors (top and bottom)	68.0	74.2	73.6	75.8	1.9
2-Doors (side-by-side)	20.4	15.2	15.7	13.9	7.0
Regular (single door)	10.7	9.8	10.0	9.2	10.5
Half-Size/Other	0.7	0.6	Q	Q	33.8
Age of Refrigerator					
Less than 2 Years	13.2	12.4	11.5	14.8	7.2
2 to 4 Years	21.0	21.1	21.5	19.8	6.2
5 to 9 Years	29.9	28.9	28.7	29.4	4.6
10 to 19 Years	23.8	24.1	24.9	21.8	4.5
20 Years or More	7.0	7.8	8.2	6.7	9.9
Don't Know	5.0	5.6	4.9	7.5	16.8
Size of Refrigerator					
Very Small (Less than 11 cf)	0.9	1.4	1.5	Q	22.5
Small (11-14 cf)	7.6	8.4	9.0	7.0	11.1
Medium (15-18 cf)	45.0	48.8	48.6	49.4	2.7
Large (19-22 cf)	44.8	39.6	39.2	40.9	4.3
Very Large (23 or More cf)	1.5	1.6	1.6	Q	21.1
Through-the-Door Ice/Water Service					
Yes	13.0	8.4	8.2	8.8	12.4
No	87.0	91.6	91.8	91.2	1.2
Color Television Sets					
1	98.7	98.9	99.2	98.0	NF
2	31.8	31.8	29.7	37.6	4.4
3	37.4	36.1	38.1	30.6	3.7
4	19.1	20.8	21.4	19.4	5.5
5 or More	7.7	7.5	7.1	8.7	9.8
5 or More	2.7	2.6	2.9	Q	17.6
Video Cassette Recorders (VCR's)					
1	87.6	86.1	86.2	85.9	1.1
2	55.5	57.5	57.9	56.2	2.4
3 or More	24.9	21.5	21.3	22.1	5.0
3 or More	7.2	7.1	7.0	7.5	10.3
Water Heaters					
Electric	100.0	100.0	100.0	100.0	NE
For One Housing Unit	39.1	25.9	23.7	32.0	8.7
For Two or More Units	37.3	24.3	22.8	28.3	8.9
Natural Gas	1.8	1.7	Q	3.7	21.3
For One Housing Unit	51.9	46.3	52.2	30.5	9.2
For Two or More Units	45.8	38.4	42.8	26.4	10.6
Fuel Oil	6.1	7.9	9.3	4.1	15.2
For One Housing Unit	5.1	24.8	21.4	33.9	9.5
For Two or More Units	3.1	14.7	10.7	25.6	11.5
LPG	2.0	10.1	10.7	8.3	14.5
Other	3.2	2.0	2.0	2.2	23.6
No Water Heater	0.7	0.8	Q	Q	44.8
No Water Heater	0.2	Q	Q	Q	70.4

See footnotes at end of table.

**Table HC5-9b. Appliances by Northeast Census Region,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.3	1.5	
Water Heater (for one housing unit)	89.7	79.7	78.5	83.0	2.2
Age					
Less than 2 Years	11.1	10.0	9.9	10.1	9.1
2 to 4 Years	16.8	15.0	14.7	15.8	6.7
5 to 9 Years	25.0	20.9	21.3	19.9	5.7
10 to 19 Years	19.9	14.4	15.9	10.1	7.3
20 Years or More	7.0	6.2	5.3	8.7	10.5
Don't Know	7.0	4.3	4.0	5.3	13.2
No Separate Heater	2.9	9.0	7.5	13.0	14.4
No Water Heater	0.2	Q	Q	Q	70.4
Water Heaters for					
Two or More Units	10.1	20.1	21.3	17.0	9.8
Size					
Small	15.3	11.1	11.2	10.6	7.5
Medium	46.4	40.3	42.6	34.0	5.8
Large	21.3	15.6	14.9	17.6	7.8
Don't Know	3.7	3.8	2.3	7.8	16.7
No Separate Heater	2.9	9.0	7.5	13.0	14.4
No Water Heater	0.2	Q	Q	Q	70.4
Water Heaters for					
Two or More Units	10.1	20.1	21.3	17.0	9.8
Other Appliances					
Heated Aquarium	3.8	3.3	3.3	3.1	14.4
Microwave Oven	83.0	78.7	78.1	80.2	1.5
Outdoor Gas Light ²	0.7	Q	Q	Q	38.5
Rechargeable Tools/ or Appliances	43.7	43.2	43.2	43.1	4.0
Stereo Equipment	68.8	66.7	66.7	67.0	2.0

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC5-10b. Appliances by Midwest Census Region,
Percent of U.S. Households, 1997**

Appliance Types and Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.6	
Total	100.0	100.0	100.0	100.0	0.0
Households With Electric					
Air-Conditioning Equipment	72.5	78.2	73.8	88.6	2.3
Central Equipment Not Used	0.3	Q	Q	Q	37.3
Room Air Conditioners Not Used	0.7	0.9	Q	Q	26.8
Households Using Electric					
Air-Conditioning¹	71.6	77.3	73.1	87.5	2.2
Type of Electric Air-Conditioning Used					
Central Air-Conditioning ²	46.8	51.3	47.6	60.1	4.2
Without a Heat Pump	36.4	49.5	45.8	58.4	4.8
With a Heat Pump	10.4	1.7	1.8	Q	23.7
Room Air-Conditioning	24.8	26.1	25.5	27.4	8.1
1 Unit	14.7	18.2	17.4	20.0	9.7
2 Units	7.1	6.3	6.1	6.8	13.5
3 or More Units	3.0	1.6	2.0	Q	21.4
Clothes Washer	77.4	78.9	76.1	85.6	2.0
Clothes Dryer	71.2	75.8	73.0	82.3	2.4
Electric	55.1	50.1	45.4	61.2	4.2
Natural Gas	15.2	23.9	26.0	19.0	11.3
LPG	0.8	1.7	1.6	2.1	22.7
Dishwasher	50.2	46.9	45.3	50.7	3.6
Ceiling Fans	60.1	63.6	60.7	70.4	3.6
1	23.3	26.6	26.7	26.2	7.6
2	13.8	15.9	15.1	17.9	5.7
3 or more	23.0	21.1	18.9	26.2	5.5
Freezer	33.2	41.8	36.6	54.1	3.8
1	30.2	38.4	33.4	50.1	4.1
2 or more	2.9	3.4	3.2	3.9	11.8
Most-Used Freezer					
Defrost Method					
Frost-Free	10.5	11.0	10.4	12.3	7.6
Manual	22.6	30.8	26.2	41.8	5.0
Type of Freezer					
Upright	16.3	17.0	15.5	20.5	6.3
Chest	16.9	24.8	21.1	33.6	4.8
Age of Freezer					
Less than 2 Years	2.4	2.9	2.8	3.2	15.7
2 to 4 Years	4.1	5.3	4.6	6.9	13.3
5 to 9 Years	7.4	8.6	7.5	11.1	10.3
10 to 19 Years	12.2	15.0	14.0	17.4	6.1
20 Years or More	6.6	9.2	7.2	14.0	11.2
Don't Know	0.5	0.9	Q	Q	33.0

See footnotes at end of table.

**Table HC5-10b. Appliances by Midwest Census Region,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.6	
Freezer Size					
Very Small (Less than 11 cf)	2.7	3.4	3.2	3.9	20.0
Small (11-14 cf)	6.6	9.8	8.8	12.2	10.2
Medium (15-18 cf)	13.3	16.1	13.2	23.0	7.7
Large (19-22 cf)	8.9	10.6	9.5	13.3	8.5
Very Large (23 or More cf)	1.7	1.9	2.0	Q	22.8
Heaters (other)					
Hot Tub or Spa	3.9	3.1	3.5	Q	14.7
Electric	2.6	2.0	2.2	Q	21.0
Natural Gas	1.1	Q	Q	Q	46.6
LPG/Other	Q	Q	Q	Q	NF
Portable Space	13.9	14.2	13.7	15.4	8.2
Electric	12.1	13.1	12.5	14.5	7.7
Kerosene	2.0	1.4	1.5	Q	22.0
Swimming Pool	1.1	Q	Q	Q	43.3
Natural Gas	0.7	Q	Q	Q	46.9
Electric/LPG/Other	0.4	Q	Q	Q	52.2
Waterbed Heaters	8.3	11.2	11.9	9.7	11.4
1	6.8	9.4	10.0	8.1	12.7
2 or More	1.4	1.8	1.9	Q	18.8
Waterbed Heaters Used All Year	7.3	10.2	11.1	8.0	11.9
1	6.4	8.8	9.7	6.7	12.8
2 or More	1.0	1.4	1.3	Q	19.5
Oven	98.8	99.1	99.5	98.1	NF
Electric	61.4	56.6	53.2	64.5	3.2
Natural Gas	33.3	38.0	43.3	25.5	5.6
LPG	4.1	4.5	3.0	8.2	24.5
Other	Q	Q	Q	Q	NF
Self-Cleaning Oven	44.1	45.1	43.2	49.5	3.7
Continuous	9.9	10.1	8.9	13.1	8.4
Manual Start	34.1	34.9	34.3	36.5	4.8
Pumps (Electric)	19.8	20.6	22.6	15.9	10.3
Hot Tub or Spa	4.0	3.1	3.5	Q	14.4
Swimming Pool	5.4	2.9	3.3	Q	15.0
Well Water	14.1	17.6	19.6	13.1	13.6
Range	99.2	99.4	99.4	99.2	NF
Electric	60.2	55.5	52.2	63.3	3.5
Natural Gas	34.7	39.3	44.2	27.7	5.8
LPG	4.3	4.5	3.0	8.2	24.5
Other	Q	Q	Q	Q	NF
Refrigerators	99.8	99.9	99.8	99.9	NF
1	84.7	81.8	82.9	79.2	1.5
2 or More	15.2	18.1	16.9	20.7	6.9

See footnotes at end of table.

**Table HC5-10b. Appliances by Midwest Census Region,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.6	
Most-Used Refrigerator					
Defrost Method					
Frost-Free	86.8	85.1	83.8	88.4	1.9
Manual	13.1	14.7	16.1	11.5	10.9
Type of Refrigerator					
2-Doors (top and bottom)	68.0	73.1	72.1	75.3	2.0
2-Doors (side-by-side)	20.4	17.6	19.0	14.4	7.6
Regular (single door)	10.7	8.5	8.0	9.5	11.3
Half-Size/Other	0.7	Q	Q	Q	32.0
Age of Refrigerator					
Less than 2 Years	13.2	13.0	13.7	11.2	6.3
2 to 4 Years	21.0	19.2	18.4	20.9	3.2
5 to 9 Years	29.9	29.1	28.8	30.0	5.2
10 to 19 Years	23.8	24.7	24.5	25.3	4.2
20 Years or More	7.0	8.0	8.2	7.6	11.1
Don't Know	5.0	5.9	6.3	4.9	19.2
Size of Refrigerator					
Very Small (Less than 11 cf)	0.9	0.9	Q	Q	25.3
Small (11-14 cf)	7.6	6.5	6.6	6.3	9.3
Medium (15-18 cf)	45.0	47.0	46.0	49.2	3.5
Large (19-22 cf)	44.8	43.8	45.0	41.0	4.6
Very Large (23 or More cf)	1.5	1.6	1.3	2.5	21.6
Through-the-Door Ice/Water Service					
Yes	13.0	10.4	11.5	7.8	11.3
No	87.0	89.6	88.5	92.2	1.3
Color Television Sets					
1	98.7	99.0	99.2	98.5	NF
2	31.8	32.1	31.3	34.1	5.4
3	37.4	36.2	37.4	33.5	4.3
4	19.1	20.4	20.3	20.6	7.7
5	7.7	7.8	7.5	8.4	13.3
5 or More	2.7	2.5	2.7	Q	19.0
Video Cassette Recorders (VCR's)					
1	87.6	89.7	89.4	90.5	1.2
2	55.5	56.4	56.0	57.5	3.5
3	24.9	26.0	25.7	26.7	6.9
3 or More	7.2	7.3	7.7	6.2	12.6
Water Heaters					
Electric	100.0	100.0	100.0	100.0	NE
For One Housing Unit	39.1	26.5	24.0	32.4	8.1
For Two or More Units	37.3	24.8	21.7	32.0	8.4
Natural Gas	1.8	1.7	2.3	Q	26.0
For One Housing Unit	51.9	67.6	71.5	58.4	4.8
For Two or More Units	45.8	58.4	60.6	53.2	5.6
Fuel Oil	6.1	9.2	10.9	5.2	12.3
For One Housing Unit	5.1	Q	Q	Q	16.4
For Two or More Units	3.1	Q	Q	Q	20.5
LPG	2.0	Q	Q	Q	21.3
Other	3.2	4.8	3.5	7.9	18.3
No Water Heater	0.7	Q	Q	Q	42.4
No Water Heater	0.2	Q	Q	Q	65.2

See footnotes at end of table.

**Table HC5-10b. Appliances by Midwest Census Region,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.6	
Water Heater (for one housing unit)	89.7	88.5	86.3	93.5	1.8
Age					
Less than 2 Years	11.1	11.1	10.9	11.6	9.6
2 to 4 Years	16.8	16.3	15.3	18.6	6.4
5 to 9 Years	25.0	23.3	22.6	25.2	5.2
10 to 19 Years	19.9	22.5	21.5	24.8	4.5
20 Years or More	7.0	6.7	6.3	7.7	11.0
Don't Know	7.0	7.6	8.6	5.2	13.4
No Separate Heater	2.9	Q	Q	Q	23.0
No Water Heater	0.2	Q	Q	Q	65.2
Water Heaters for					
Two or More Units	10.1	11.5	13.7	6.5	10.6
Size					
Small	15.3	14.3	13.8	15.5	7.6
Medium	46.4	50.6	50.4	51.1	3.4
Large	21.3	18.8	18.2	20.2	7.6
Don't Know	3.7	3.8	2.8	6.3	21.2
No Separate Heater	2.9	Q	Q	Q	23.0
No Water Heater	0.2	Q	Q	Q	65.2
Water Heaters for					
Two or More Units	10.1	11.5	13.7	6.5	10.6
Other Appliances					
Heated Aquarium	3.8	4.0	3.6	5.0	18.6
Microwave Oven	83.0	86.9	85.0	91.4	1.5
Outdoor Gas Light ²	0.7	1.1	Q	Q	35.4
Rechargeable Tools/ or Appliances	43.7	46.5	46.3	46.9	3.5
Stereo Equipment	68.8	67.0	66.5	68.0	2.3

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC5-11b. Appliances by South Census Region,
Percent of U.S. Households, 1997**

Appliance Types and Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.2	1.4	1.4	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Households With Electric						
Air-Conditioning Equipment	72.5	93.0	92.6	94.3	92.8	1.6
Central Equipment Not Used	0.3	Q	Q	Q	Q	39.2
Room Air Conditioners Not Used	0.7	Q	Q	Q	Q	33.9
Households Using Electric						
Air-Conditioning¹	71.6	92.5	92.0	94.3	92.5	1.6
Type of Electric Air-Conditioning Used						
Central Air-Conditioning ²	46.8	69.4	71.2	66.3	68.1	3.2
Without a Heat Pump	36.4	45.6	37.8	45.3	59.4	6.4
With a Heat Pump	10.4	23.7	33.4	21.0	8.7	12.1
Room Air-Conditioning	24.8	23.2	20.8	28.1	24.4	6.7
1 Unit	14.7	11.8	12.1	13.7	10.1	8.2
2 Units	7.1	7.3	5.8	9.3	8.9	13.2
3 or More Units	3.0	4.1	2.9	5.0	5.5	20.0
Clothes Washer	77.4	82.0	83.4	86.3	76.9	2.1
Clothes Dryer	71.2	74.2	72.9	81.0	72.5	2.5
Electric	55.1	66.4	67.8	75.6	58.7	3.4
Natural Gas	15.2	7.2	4.5	Q	13.5	12.0
LPG	0.8	0.5	Q	Q	Q	35.3
Dishwasher	50.2	51.5	53.5	42.3	53.4	4.0
Ceiling Fans	60.1	71.2	67.9	73.3	75.7	2.6
1	23.3	18.9	19.9	22.3	15.0	6.7
2	13.8	16.0	15.8	14.1	17.4	7.8
3 or more	23.0	36.3	32.1	36.9	43.2	4.2
Freezer	33.2	36.9	35.1	41.4	37.2	4.0
1	30.2	33.1	32.3	35.9	32.7	4.7
2 or more	2.9	3.8	2.8	5.4	4.5	12.7
Most-Used Freezer						
Defrost Method						
Frost-Free	10.5	13.1	13.5	13.9	12.0	6.5
Manual	22.6	23.7	21.6	27.4	25.2	5.6
Type of Freezer						
Upright	16.3	16.8	17.6	16.4	15.8	6.8
Chest	16.9	20.0	17.6	24.9	21.4	6.9
Age of Freezer						
Less than 2 Years	2.4	2.8	2.7	2.8	3.2	19.2
2 to 4 Years	4.1	5.1	5.1	6.4	4.2	17.1
5 to 9 Years	7.4	8.5	8.2	8.2	9.2	10.1
10 to 19 Years	12.2	14.0	12.6	16.9	14.6	7.7
20 Years or More	6.6	5.9	5.9	6.7	5.6	13.3
Don't Know	0.5	0.5	Q	Q	Q	33.8

See footnotes at end of table.

**Table HC5-11b. Appliances by South Census Region,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.2	1.4	1.4	
Freezer Size						
Very Small (Less than 11 cf)	2.7	2.3	2.3	2.2	2.5	18.3
Small (11-14 cf)	6.6	7.0	7.0	7.4	6.8	12.2
Medium (15-18 cf)	13.3	15.9	14.5	19.1	16.5	7.8
Large (19-22 cf)	8.9	10.2	10.2	11.5	9.3	11.6
Very Large (23 or More cf)	1.7	1.4	1.1	Q	2.1	25.2
Heaters (other)						
Hot Tub or Spa	3.9	4.0	4.2	4.0	3.6	21.9
Electric	2.6	2.5	2.4	3.1	2.5	20.9
Natural Gas	1.1	Q	Q	Q	Q	49.0
LPG/Other	Q	Q	Q	Q	Q	NF
Portable Space	13.9	16.0	16.2	18.7	14.0	8.6
Electric	12.1	13.0	12.2	14.7	13.6	10.5
Kerosene	2.0	3.4	4.3	5.2	Q	15.2
Swimming Pool	1.1	1.4	Q	Q	Q	48.6
Natural Gas	0.7	1.0	Q	Q	Q	49.6
Electric/LPG/Other	0.4	Q	Q	Q	Q	54.9
Waterbed Heaters	8.3	8.2	7.2	10.7	8.4	11.2
1	6.8	6.7	5.7	9.8	6.5	12.4
2 or More	1.4	1.5	1.5	Q	Q	20.8
Waterbed Heaters Used All Year	7.3	6.9	6.2	8.7	7.0	11.9
1	6.4	6.2	5.8	8.1	6.0	13.2
2 or More	1.0	0.7	Q	Q	Q	23.3
Oven	98.8	98.7	98.6	98.5	98.9	NF
Electric	61.4	72.1	78.8	75.0	58.7	3.7
Natural Gas	33.3	22.1	15.7	15.9	36.8	10.7
LPG	4.1	4.4	4.0	7.3	3.5	20.5
Other	Q	Q	Q	Q	Q	NF
Self-Cleaning Oven	44.1	41.8	43.4	41.5	39.1	4.5
Continuous	9.9	11.0	10.0	12.6	11.8	10.6
Manual Start	34.1	30.8	33.5	29.0	27.3	5.9
Pumps (Electric)	19.8	19.3	25.8	16.7	9.7	8.8
Hot Tub or Spa	4.0	4.0	4.2	4.0	3.6	21.8
Swimming Pool	5.4	6.6	8.6	4.7	4.4	13.3
Well Water	14.1	13.7	20.5	10.6	3.7	18.1
Range	99.2	99.1	98.9	99.1	99.3	NF
Electric	60.2	70.9	78.5	75.3	55.4	3.7
Natural Gas	34.7	23.6	16.3	16.3	40.3	10.0
LPG	4.3	4.5	4.1	7.3	3.6	20.4
Other	Q	Q	Q	Q	Q	NF
Refrigerators	99.8	99.9	100.0	99.9	99.9	NF
1	84.7	86.8	87.5	84.8	86.7	1.2
2 or More	15.2	13.1	12.5	15.1	13.2	7.6

See footnotes at end of table.

**Table HC5-11b. Appliances by South Census Region,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.2	1.4	1.4	
Most-Used Refrigerator						
Defrost Method						
Frost-Free	86.8	90.0	89.6	90.7	90.3	1.0
Manual	13.1	9.9	10.3	9.2	9.6	8.0
Type of Refrigerator						
2-Doors (top and bottom)	68.0	65.6	64.8	67.4	65.9	3.0
2-Doors (side-by-side)	20.4	22.2	21.0	21.5	24.8	7.6
Regular (single door)	10.7	11.4	13.5	10.5	8.3	13.0
Half-Size/Other	0.7	0.6	Q	Q	Q	36.7
Age of Refrigerator						
Less than 2 Years	13.2	13.3	13.2	11.1	14.7	7.1
2 to 4 Years	21.0	24.0	23.5	24.6	24.7	5.3
5 to 9 Years	29.9	29.5	29.2	31.4	29.0	4.7
10 to 19 Years	23.8	22.6	23.6	21.6	21.5	6.2
20 Years or More	7.0	6.1	5.4	7.2	6.7	7.9
Don't Know	5.0	4.4	5.1	3.9	3.4	16.6
Size of Refrigerator						
Very Small (Less than 11 cf)	0.9	0.6	Q	Q	Q	32.2
Small (11-14 cf)	7.6	7.1	7.7	4.9	7.2	11.7
Medium (15-18 cf)	45.0	45.1	46.9	45.1	42.1	3.2
Large (19-22 cf)	44.8	45.9	44.1	47.4	48.0	3.4
Very Large (23 or More cf)	1.5	1.2	Q	Q	1.9	18.3
Through-the-Door Ice/Water Service						
Yes	13.0	16.3	15.4	15.9	18.3	8.0
No	87.0	83.7	84.6	84.1	81.7	1.5
Color Television Sets						
1	98.7	98.7	98.8	99.6	98.0	NF
2	31.8	29.1	27.8	31.4	30.1	4.5
3	37.4	38.9	38.3	40.1	39.4	3.8
4	19.1	18.4	19.6	16.7	17.4	5.8
5 or More	7.7	8.9	9.9	7.7	7.9	10.1
5 or More	2.7	3.4	3.3	3.6	3.2	16.0
Video Cassette Recorders (VCR's)						
1	87.6	86.0	85.9	86.0	86.1	1.4
2	55.5	52.8	52.2	55.5	52.2	3.0
3 or More	24.9	25.8	26.5	23.9	25.8	7.0
3 or More	7.2	7.4	7.3	6.6	8.1	12.8
Water Heaters						
Electric	100.0	100.0	100.0	100.0	100.0	NE
For One Housing Unit	39.1	58.3	68.6	65.7	36.4	6.1
For Two or More Units	37.3	56.5	67.4	64.8	32.9	6.5
Natural Gas	1.8	1.8	1.2	Q	3.4	21.8
For One Housing Unit	51.9	37.3	26.5	29.6	60.5	8.1
For Two or More Units	45.8	35.9	25.1	28.2	58.8	8.2
Fuel Oil	6.1	1.5	1.4	Q	Q	25.0
For One Housing Unit	5.1	Q	Q	Q	Q	17.2
For Two or More Units	3.1	Q	Q	Q	Q	21.5
LPG	2.0	Q	Q	Q	Q	22.4
Other	3.2	3.1	2.7	4.7	3.0	19.0
No Water Heater	0.7	Q	Q	Q	Q	44.6
No Water Heater	0.2	Q	Q	Q	Q	68.6

See footnotes at end of table.

**Table HC5-11b. Appliances by South Census Region,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.2	1.4	1.4	
Water Heater (for one housing unit)	89.7	96.5	97.1	97.7	94.8	1.0
Age						
Less than 2 Years	11.1	11.7	12.0	13.7	9.9	7.8
2 to 4 Years	16.8	19.3	16.8	19.3	23.5	7.5
5 to 9 Years	25.0	28.7	30.7	25.4	27.2	5.5
10 to 19 Years	19.9	20.9	20.5	22.7	20.5	6.0
20 Years or More	7.0	6.6	6.0	9.1	6.0	11.9
Don't Know	7.0	8.3	9.6	6.7	6.9	11.4
No Separate Heater	2.9	1.1	1.4	Q	Q	29.6
No Water Heater	0.2	Q	Q	Q	Q	68.6
Water Heaters for						
Two or More Units	10.1	3.3	2.6	Q	5.1	19.8
Size						
Small	15.3	19.7	19.2	19.8	20.3	8.5
Medium	46.4	50.1	49.4	47.7	52.6	3.7
Large	21.3	22.1	22.9	26.7	18.1	9.2
Don't Know	3.7	3.5	4.1	Q	3.0	24.8
No Separate Heater	2.9	1.1	1.4	Q	Q	29.6
No Water Heater	0.2	Q	Q	Q	Q	68.6
Water Heaters for						
Two or More Units	10.1	3.3	2.6	Q	5.1	19.8
Other Appliances						
Heated Aquarium	3.8	3.4	3.8	4.3	2.3	12.3
Microwave Oven	83.0	82.4	83.7	79.3	82.0	2.8
Outdoor Gas Light ²	0.7	0.7	Q	Q	Q	33.9
Rechargeable Tools/ or Appliances	43.7	41.8	41.4	42.9	41.8	3.5
Stereo Equipment	68.8	67.8	69.0	63.9	67.9	1.5

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC5-12b. Appliances by West Census Region,
Percent of U.S. Households, 1997**

Appliance Types and Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.6	1.3	
Total	100.0	100.0	100.0	100.0	0.0
Households With Electric					
Air-Conditioning Equipment	72.5	40.9	48.7	37.8	6.9
Central Equipment Not Used	0.3	0.7	Q	Q	35.7
Room Air Conditioners Not Used	0.7	Q	Q	Q	35.8
Households Using Electric					
Air-Conditioning¹	71.6	39.7	47.6	36.5	6.9
Type of Electric Air-Conditioning Used					
Central Air-Conditioning ²	46.8	26.9	34.0	24.1	7.9
Without a Heat Pump	36.4	21.7	26.0	19.9	10.6
With a Heat Pump	10.4	5.3	8.0	4.2	13.1
Room Air-Conditioning	24.8	12.8	13.6	12.4	11.3
1 Unit	14.7	10.5	10.5	10.5	12.7
2 Units	7.1	1.9	2.5	1.6	15.4
3 or More Units	3.0	Q	Q	Q	23.1
Clothes Washer	77.4	69.5	76.5	66.8	3.4
Clothes Dryer	71.2	65.1	70.1	63.2	3.9
Electric	55.1	48.2	61.0	43.1	4.5
Natural Gas	15.2	16.5	8.4	19.7	9.4
LPG	0.8	Q	Q	Q	31.7
Dishwasher	50.2	53.1	57.2	51.5	4.5
Ceiling Fans	60.1	46.0	61.0	40.1	4.0
1	23.3	24.4	31.9	21.4	7.4
2	13.8	9.6	9.9	9.4	8.5
3 or more	23.0	12.0	19.2	9.2	10.1
Freezer	33.2	24.2	33.8	20.5	5.5
1	30.2	22.1	30.1	18.9	5.3
2 or more	2.9	2.2	3.7	1.6	19.1
Most-Used Freezer					
Defrost Method					
Frost-Free	10.5	8.5	12.4	7.0	10.1
Manual	22.6	15.7	21.4	13.5	6.9
Type of Freezer					
Upright	16.3	16.8	19.3	15.8	6.1
Chest	16.9	7.5	14.5	4.7	10.9
Age of Freezer					
Less than 2 Years	2.4	1.2	2.1	0.8	24.8
2 to 4 Years	4.1	2.7	4.4	1.9	17.2
5 to 9 Years	7.4	6.3	9.1	5.2	11.5
10 to 19 Years	12.2	8.2	10.8	7.1	9.1
20 Years or More	6.6	5.7	6.6	5.3	15.3
Don't Know	0.5	Q	Q	Q	38.4

See footnotes at end of table.

**Table HC5-12b. Appliances by West Census Region,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.6	1.3	
Freezer Size					
Very Small (Less than 11 cf)	2.7	2.1	3.2	1.7	17.7
Small (11-14 cf)	6.6	3.6	5.2	3.0	13.0
Medium (15-18 cf)	13.3	9.7	12.9	8.4	9.3
Large (19-22 cf)	8.9	6.9	10.4	5.5	12.8
Very Large (23 or More cf)	1.7	2.0	Q	1.9	15.4
Heaters (other)					
Hot Tub or Spa	3.9	5.8	4.6	6.3	11.5
Electric	2.6	3.7	3.5	3.8	12.3
Natural Gas	1.1	1.9	Q	2.3	24.3
LPG/Other	Q	Q	Q	Q	NF
Portable Space	13.9	11.2	11.7	11.1	9.1
Electric	12.1	10.7	10.7	10.8	9.9
Kerosene	2.0	Q	Q	Q	20.2
Swimming Pool	1.1	1.3	Q	1.6	34.8
Natural Gas	0.7	0.9	Q	1.2	40.2
Electric/LPG/Other	0.4	Q	Q	Q	58.0
Waterbed Heaters	8.3	7.1	14.0	4.3	16.1
1	6.8	5.5	11.1	3.3	18.9
2 or More	1.4	1.5	2.9	1.0	19.7
Waterbed Heaters Used All Year	7.3	6.5	12.4	4.2	15.9
1	6.4	5.2	10.1	3.2	19.4
2 or More	1.0	1.4	2.2	1.0	17.3
Oven	98.8	98.1	98.6	98.0	NF
Electric	61.4	60.2	70.2	56.2	3.3
Natural Gas	33.3	35.7	25.4	39.8	6.2
LPG	4.1	2.3	3.0	1.9	20.3
Other	Q	Q	Q	Q	NF
Self-Cleaning Oven	44.1	42.7	47.2	40.9	4.4
Continuous	9.9	8.3	5.8	9.2	11.7
Manual Start	34.1	34.4	41.4	31.7	4.4
Pumps (Electric)	19.8	14.2	18.1	12.7	11.0
Hot Tub or Spa	4.0	5.8	4.6	6.3	11.4
Swimming Pool	5.4	4.1	5.8	3.4	15.1
Well Water	14.1	6.7	10.2	5.3	18.9
Range	99.2	98.8	98.8	98.8	NF
Electric	60.2	58.4	70.3	53.6	3.4
Natural Gas	34.7	37.8	25.2	42.7	6.2
LPG	4.3	2.7	3.2	2.4	22.5
Other	Q	Q	Q	Q	NF
Refrigerators	99.8	99.7	99.7	99.7	NF
1	84.7	84.5	86.3	83.8	1.3
2 or More	15.2	15.1	13.4	15.8	7.4

See footnotes at end of table.

**Table HC5-12b. Appliances by West Census Region,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.6	1.3	
Most-Used Refrigerator					
Defrost Method					
Frost-Free	86.8	84.7	86.7	83.9	1.4
Manual	13.1	15.0	13.0	15.8	8.4
Type of Refrigerator					
2-Doors (top and bottom)	68.0	60.6	66.5	58.2	3.3
2-Doors (side-by-side)	20.4	25.2	21.5	26.7	7.6
Regular (single door)	10.7	12.7	10.5	13.6	12.2
Half-Size/Other	0.7	1.1	Q	1.2	28.6
Age of Refrigerator					
Less than 2 Years	13.2	14.2	14.8	13.9	6.7
2 to 4 Years	21.0	18.2	17.5	18.5	5.9
5 to 9 Years	29.9	32.1	29.4	33.1	5.3
10 to 19 Years	23.8	24.5	25.2	24.2	3.7
20 Years or More	7.0	6.6	7.2	6.3	12.2
Don't Know	5.0	4.2	5.6	3.7	18.2
Size of Refrigerator					
Very Small (Less than 11 cf)	0.9	0.9	Q	1.1	29.1
Small (11-14 cf)	7.6	8.9	6.5	9.9	8.8
Medium (15-18 cf)	45.0	39.2	41.9	38.2	4.3
Large (19-22 cf)	44.8	48.9	49.1	48.8	4.1
Very Large (23 or More cf)	1.5	1.7	Q	1.7	21.8
Through-the-Door Ice/Water Service					
Yes	13.0	14.4	11.3	15.7	8.3
No	87.0	85.6	88.7	84.3	1.8
Color Television Sets					
1	98.7	98.2	99.3	97.8	NF
2	31.8	36.0	35.1	36.4	4.4
3	37.4	37.3	37.5	37.2	3.3
4	19.1	17.3	16.4	17.6	5.6
5 or More	7.7	5.5	6.8	5.0	11.3
5 or More	2.7	2.2	3.6	1.6	17.2
Video Cassette Recorders (VCR's)					
1	87.6	89.0	89.2	89.0	0.9
2	55.5	57.3	55.9	57.8	2.9
3 or More	24.9	25.1	24.8	25.2	6.2
3 or More	7.2	6.7	8.5	6.0	10.2
Water Heaters					
Electric	100.0	100.0	100.0	100.0	NE
For One Housing Unit	39.1	33.0	34.5	32.5	6.3
For Two or More Units	37.3	31.2	32.6	30.6	5.9
Natural Gas	1.8	1.9	Q	1.9	26.7
For One Housing Unit	51.9	63.5	61.7	64.2	3.4
For Two or More Units	45.8	55.0	54.4	55.2	4.6
Fuel Oil	6.1	8.5	7.2	9.0	17.6
For One Housing Unit	5.1	Q	Q	Q	18.2
For Two or More Units	3.1	Q	Q	Q	22.8
LPG	2.0	Q	Q	Q	23.7
Other	3.2	2.4	Q	2.3	20.0
No Water Heater	0.7	0.8	Q	Q	38.7
No Water Heater	0.2	Q	Q	Q	72.4

See footnotes at end of table.

**Table HC5-12b. Appliances by West Census Region,
Percent of U.S. Households, 1997 (Continued)**

Appliance Types and Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.6	1.3	
Water Heater (for one housing unit)	89.7	89.1	90.5	88.6	1.8
Age					
Less than 2 Years	11.1	11.1	15.8	9.2	11.5
2 to 4 Years	16.8	14.7	17.7	13.5	6.3
5 to 9 Years	25.0	24.2	22.9	24.7	6.4
10 to 19 Years	19.9	20.6	21.2	20.4	8.9
20 Years or More	7.0	8.8	5.6	10.1	11.2
Don't Know	7.0	6.8	6.3	7.0	12.5
No Separate Heater	2.9	2.8	Q	3.6	30.8
No Water Heater	0.2	Q	Q	Q	72.4
Water Heaters for					
Two or More Units	10.1	10.6	9.1	11.2	15.3
Size					
Small	15.3	13.0	16.0	11.8	8.4
Medium	46.4	41.4	43.9	40.3	4.1
Large	21.3	28.1	25.4	29.2	7.1
Don't Know	3.7	3.8	4.2	3.6	18.0
No Separate Heater	2.9	2.8	Q	3.6	30.8
No Water Heater	0.2	Q	Q	Q	72.4
Water Heaters for					
Two or More Units	10.1	10.6	9.1	11.2	15.3
Other Appliances					
Heated Aquarium	3.8	4.7	4.1	5.0	13.5
Microwave Oven	83.0	83.3	84.2	83.0	1.5
Outdoor Gas Light ²	0.7	Q	Q	Q	39.6
Rechargeable Tools/ or Appliances	43.7	44.4	46.6	43.6	4.2
Stereo Equipment	68.8	74.4	73.7	74.6	1.6

¹ The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

² Includes 642,000 households using room/wall air-conditioners in addition to central air-conditioning. These are excluded from the count of 25.2 million households using only room air-conditioners.

cf = Cubic feet.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

1997 Housing Characteristics Tables

Household Tables

(Million U.S. Households; 13 pages, 52 kb)

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These data are from the 1997 Residential Energy Consumption Survey (RECS) which provides information on the use of energy in residential housing units in the United States. The RECS is a national statistical survey that collects data for occupied primary housing units. RECS was first conducted in 1978; the sixth and most recent survey was conducted in 1997 RECS. The data were collected from a sample of 5,900 housing units statistically selected to represent the 101.5 million units in the United States. The 1997 data are available for the four Census regions, the nine Census divisions, and for the four most populous States--California, Florida, New York, and Texas.

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

**Table HC2-1a. Household Characteristics by Climate Zone,
Million U.S. Households, 1997**

Household Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.3	2.0	1.1	1.1	1.2	1.0	
Total	101.5	9.3	28.0	22.5	19.5	22.2	7.7
1997 Household Income Category							
Less than \$5,000	3.8	0.2	1.0	0.8	0.6	1.0	16.1
\$5,000 to \$9,999	9.6	0.6	1.8	2.4	2.3	2.4	13.0
\$10,000 to \$14,999	10.3	1.1	2.3	2.0	2.5	2.5	13.6
\$15,000 to \$19,999	10.4	0.8	2.6	1.8	2.3	2.9	11.7
\$20,000 to \$24,999	8.4	0.9	2.3	1.9	1.6	1.8	11.7
\$25,000 to \$34,999	15.6	1.3	4.5	3.7	3.1	3.1	11.1
\$35,000 to \$49,999	15.5	2.1	4.7	3.2	2.7	2.8	9.8
\$50,000 to \$74,999	16.4	1.4	5.5	3.9	2.1	3.5	9.9
\$75,000 or More	11.5	0.9	3.4	2.8	2.3	2.1	11.9
Below Poverty Line							
100 Percent	14.6	1.0	3.3	3.1	3.7	3.6	9.9
125 Percent	19.7	1.4	4.2	4.2	4.9	4.9	10.2
Eligible for Federal Assistance² ..	34.1	2.8	8.2	7.6	7.6	7.9	9.2
Age of Householder							
Under 25 Years	5.7	0.4	1.7	0.8	1.2	1.6	12.9
25 to 34 Years	18.5	1.7	5.3	3.7	3.9	4.0	9.5
35 to 44 Years	23.2	2.3	6.7	4.9	4.4	4.9	8.2
45 to 59 Years	25.6	2.2	7.2	6.2	4.7	5.3	8.5
60 Years and Over	28.5	2.6	7.2	6.9	5.3	6.4	9.6
Race of Householder							
White	78.5	8.9	23.7	17.3	12.7	15.9	7.5
Black	12.7	Q	2.6	3.2	3.0	3.8	13.1
Other ³	10.3	0.3	1.7	2.0	3.8	2.4	13.4
Householder of Hispanic Descent							
Yes	9.4	0.4	1.6	1.4	2.8	3.3	15.8
No	92.1	8.9	26.5	21.1	16.7	18.9	8.3
Household Size							
1 Person	25.6	2.5	6.6	6.4	4.7	5.4	9.9
2 Persons	33.0	2.8	9.7	6.9	6.3	7.2	8.1
3 Persons	17.4	1.4	4.4	4.3	3.5	3.8	8.9
4 Persons	15.2	1.6	4.7	3.0	2.7	3.3	9.1
5 Persons	6.4	0.7	1.9	1.1	1.3	1.4	13.4
6 or More Persons	3.9	0.3	0.8	0.8	1.0	1.0	18.2

See footnotes at end of table.

**Table HC2-1a. Household Characteristics by Climate Zone,
Million U.S. Households, 1997 (Continued)**

Household Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.3	2.0	1.1	1.1	1.2	1.0	
Household Owns or Has Regular Use of a Motor Vehicle							
No	12.9	0.8	3.2	3.7	2.9	2.2	10.0
Yes	88.6	8.4	24.8	18.8	16.6	19.9	7.9
1 Vehicle	33.5	2.5	9.0	7.8	6.1	8.0	7.8
2 Vehicles	38.1	4.1	11.1	7.2	7.3	8.4	7.9
3 Vehicles	12.0	1.2	3.2	2.9	2.3	2.5	11.5
4 or More Vehicles	5.0	0.5	1.5	1.0	1.0	1.1	15.9

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

² Below 150 percent of poverty line or 60 percent of median State income.

³ Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC2-2a. Household Characteristics by Year of Construction,
Million U.S. Households, 1997**

Household Characteristics	Total	Year of Construction ¹						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.4	1.8	1.3	1.0	1.1	1.1	0.9	
Total	101.5	9.7	17.3	19.6	14.4	12.5	27.9	4.1
1997 Household Income Category								
Less than \$5,000	3.8	0.1	0.4	0.6	0.6	0.5	1.6	16.8
\$5,000 to \$9,999	9.6	0.7	1.4	1.9	1.2	1.2	3.1	12.2
\$10,000 to \$14,999	10.3	0.6	1.3	1.7	1.5	1.5	3.6	10.6
\$15,000 to \$19,999	10.4	0.6	1.8	1.9	1.6	1.5	3.0	10.6
\$20,000 to \$24,999	8.4	0.7	1.3	1.5	1.3	1.1	2.5	10.8
\$25,000 to \$34,999	15.6	1.3	2.2	3.4	2.6	1.9	4.3	8.3
\$35,000 to \$49,999	15.5	1.7	2.5	2.8	2.2	2.0	4.2	8.2
\$50,000 to \$74,999	16.4	2.0	3.7	3.4	1.9	1.9	3.6	8.7
\$75,000 or More	11.5	2.0	2.6	2.2	1.6	1.0	2.1	11.6
Below Poverty Line								
100 Percent	14.6	0.8	1.8	2.7	2.2	2.1	5.0	9.0
125 Percent	19.7	1.2	2.7	3.6	2.8	2.7	6.7	8.3
Eligible for Federal Assistance² ..	34.1	2.2	4.7	6.1	4.7	4.7	11.7	6.5
Age of Householder								
Under 25 Years	5.7	0.6	1.1	1.2	0.8	0.6	1.4	13.6
25 to 34 Years	18.5	2.2	3.2	3.7	2.8	1.9	4.8	7.7
35 to 44 Years	23.2	3.2	4.4	4.1	2.7	2.7	6.1	6.7
45 to 59 Years	25.6	2.0	4.6	5.9	3.5	2.9	6.7	6.8
60 Years and Over	28.5	1.7	4.1	4.6	4.7	4.5	8.9	7.2
Race of Householder								
White	78.5	8.1	13.6	16.1	10.9	9.4	20.3	4.3
Black	12.7	0.7	2.2	1.7	2.0	1.8	4.3	12.1
Other ³	10.3	0.9	1.5	1.8	1.6	1.3	3.3	11.9
Householder of Hispanic Descent								
Yes	9.4	0.8	1.3	1.8	1.3	1.4	2.8	13.5
No	92.1	8.9	16.0	17.8	13.1	11.1	25.2	4.3
Household Size								
1 Person	25.6	1.7	4.3	4.8	3.8	3.2	7.8	7.5
2 Persons	33.0	3.3	5.6	6.3	5.1	4.0	8.8	6.0
3 Persons	17.4	1.5	3.0	3.5	2.3	2.3	4.7	7.6
4 Persons	15.2	1.9	2.7	3.3	1.9	1.8	3.6	7.8
5 Persons	6.4	0.9	1.2	1.0	0.9	0.6	1.7	12.8
6 or More Persons	3.9	0.4	0.6	0.6	0.3	0.6	1.3	18.0
Household Owns or Has Regular Use of a Motor Vehicle								
No	12.9	0.6	1.3	2.2	1.8	1.6	5.4	10.3
Yes	88.6	9.1	16.0	17.4	12.7	10.9	22.5	4.4
1 Vehicle	33.5	2.8	5.6	6.1	4.9	4.3	9.9	6.3
2 Vehicles	38.1	4.8	7.1	7.6	5.6	4.6	8.5	5.5
3 Vehicles	12.0	1.2	2.3	2.4	1.6	1.6	2.8	9.5
4 or More Vehicles	5.0	0.4	1.0	1.3	0.6	0.4	1.4	15.1

¹ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

² Below 150 percent of poverty line or 60 percent of median State income.

³ Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

Table HC2-3a. Household Characteristics by Household Income, Million U.S. Households, 1997

Household Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.4	1.0	1.0	1.1	1.2	1.0	
Total	101.5	13.3	29.1	31.1	27.9	14.6	34.1	2.7
1997 Household Income Category								
Less than \$5,000	3.8	3.8	--	--	--	3.8	3.8	7.1
\$5,000 to \$9,999	9.6	9.6	--	--	--	7.1	9.6	5.4
\$10,000 to \$14,999	10.3	--	10.3	--	--	2.7	9.8	6.4
\$15,000 to \$19,999	10.4	--	10.4	--	--	1.0	6.1	7.2
\$20,000 to \$24,999	8.4	--	8.4	--	--	Q	2.8	7.1
\$25,000 to \$34,999	15.6	--	--	15.6	--	Q	2.0	6.5
\$35,000 to \$49,999	15.5	--	--	15.5	--	--	0.2	8.6
\$50,000 to \$74,999	16.4	--	--	--	16.4	--	--	4.8
\$75,000 or More	11.5	--	--	--	11.5	--	--	6.9
Below Poverty Line								
100 Percent	14.6	10.9	3.8	Q	--	14.6	14.6	4.3
125 Percent	19.7	12.9	6.5	0.3	--	14.6	19.7	6.0
Eligible for Federal Assistance¹ ..	34.1	13.3	18.6	2.1	--	14.6	34.1	4.2
Age of Householder								
Under 25 Years	5.7	1.4	2.4	1.4	0.4	1.6	3.1	10.7
25 to 34 Years	18.5	1.6	5.3	7.0	4.7	2.7	6.1	6.3
35 to 44 Years	23.2	1.7	4.9	7.4	9.1	2.5	6.1	5.5
45 to 59 Years	25.6	2.1	5.7	7.5	10.3	2.5	5.9	5.7
60 Years and Over	28.5	6.4	10.9	7.8	3.4	5.4	12.9	5.2
Race of Householder								
White	78.5	7.8	21.7	25.2	23.8	7.8	21.9	3.3
Black	12.7	3.4	3.8	3.2	2.3	3.7	6.5	8.5
Other ²	10.3	2.1	3.6	2.7	1.9	3.1	5.6	9.3
Householder of Hispanic Descent								
Yes	9.4	1.9	3.5	2.5	1.6	2.8	5.1	10.5
No	92.1	11.4	25.6	28.7	26.3	11.9	29.0	3.1
Household Size								
1 Person	25.6	6.9	9.6	6.3	2.8	4.8	10.6	5.0
2 Persons	33.0	2.9	9.5	11.2	9.3	2.7	8.3	5.1
3 Persons	17.4	1.5	4.1	5.5	6.3	2.0	5.4	6.3
4 Persons	15.2	1.1	3.3	4.8	6.0	2.2	5.0	6.1
5 Persons	6.4	0.4	1.5	2.1	2.4	1.6	2.6	10.2
6 or More Persons	3.9	0.5	1.1	1.2	1.2	1.4	2.1	13.1
Household Owns or Has Regular Use of a Motor Vehicle								
No	12.9	6.4	4.3	1.5	0.8	5.9	9.8	6.4
Yes	88.6	6.9	24.9	29.7	27.1	8.7	24.3	3.2
1 Vehicle	33.5	5.1	13.8	11.0	3.6	5.5	13.6	4.6
2 Vehicles	38.1	1.4	8.4	13.4	14.8	2.4	7.8	4.6
3 Vehicles	12.0	0.2	2.0	3.9	5.8	0.6	2.1	9.9
4 or More Vehicles	5.0	Q	0.7	1.3	2.9	0.2	0.8	14.0

¹ Below 150 percent of poverty line or 60 percent of median State income.

² Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

-- = Data not applicable.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC2-4a. Household Characteristics by Type of Housing Unit,
Million U.S. Households, 1997**

Household Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.5	1.8	1.4	1.9	
Total	101.5	73.7	5.6	15.8	6.3	3.8
1997 Household Income Category						
Less than \$5,000	3.8	1.9	0.3	1.2	0.4	15.5
\$5,000 to \$9,999	9.6	4.7	1.2	3.0	0.7	10.5
\$10,000 to \$14,999	10.3	6.1	0.9	2.3	1.0	10.1
\$15,000 to \$19,999	10.4	6.9	0.5	1.8	1.2	10.1
\$20,000 to \$24,999	8.4	5.6	0.7	1.2	0.9	10.0
\$25,000 to \$34,999	15.6	11.3	0.8	2.5	1.0	8.6
\$35,000 to \$49,999	15.5	12.1	0.5	2.2	0.6	9.7
\$50,000 to \$74,999	16.4	14.3	0.6	1.1	0.4	11.2
\$75,000 or More	11.5	10.8	Q	0.6	Q	13.1
Below Poverty Line						
100 Percent	14.6	7.8	1.5	4.0	1.4	8.3
125 Percent	19.7	10.5	1.9	5.4	1.9	7.5
Eligible for Federal Assistance¹ ..	34.1	20.1	3.0	8.0	3.0	6.1
Age of Householder						
Under 25 Years	5.7	1.8	0.8	2.5	0.6	11.9
25 to 34 Years	18.5	11.1	1.6	4.5	1.4	7.3
35 to 44 Years	23.2	18.2	1.1	2.6	1.3	6.8
45 to 59 Years	25.6	20.9	0.7	2.5	1.5	6.6
60 Years and Over	28.5	21.8	1.4	3.7	1.5	7.3
Race of Householder						
White	78.5	60.4	3.5	9.2	5.5	4.2
Black	12.7	8.4	1.3	2.7	0.3	10.6
Other ²	10.3	4.9	0.9	3.9	0.5	12.2
Householder of Hispanic Descent						
Yes	9.4	5.1	0.8	2.8	0.8	13.0
No	92.1	68.7	4.8	13.0	5.6	4.2
Household Size						
1 Person	25.6	14.2	2.2	7.2	1.9	6.2
2 Persons	33.0	25.5	1.5	4.1	1.9	5.8
3 Persons	17.4	13.5	0.7	2.2	1.0	8.3
4 Persons	15.2	12.2	0.7	1.5	0.8	8.1
5 Persons	6.4	5.2	0.2	0.5	0.5	12.3
6 or More Persons	3.9	3.1	0.2	0.3	0.3	19.9
Household Owns or Has Regular Use of a Motor Vehicle						
No	12.9	5.8	1.7	4.8	0.6	8.4
Yes	88.6	68.0	3.9	11.0	5.7	4.2
1 Vehicle	33.5	20.6	2.4	7.9	2.7	5.6
2 Vehicles	38.1	32.1	1.1	2.6	2.2	6.1
3 Vehicles	12.0	10.7	0.3	0.3	0.6	11.0
4 or More Vehicles	5.0	4.6	Q	0.2	0.2	17.3

¹ Below 150 percent of poverty line or 60 percent of median State income.

² Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

Table HC2-5a. Household Characteristics by Type of Owner-Occupied Housing Unit, Million U.S. Households, 1997

Household Characteristics	Total Owner-Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.3	0.4	2.8	2.4	1.2	
Total Owner-Occupied Units	68.5	61.1	0.9	1.2	5.3	6.2
1997 Household Income Category						
Less than \$5,000	1.2	0.9	Q	Q	0.2	33.4
\$5,000 to \$9,999	3.9	3.2	Q	Q	0.5	23.2
\$10,000 to \$14,999	5.5	4.4	Q	0.2	0.8	18.0
\$15,000 to \$19,999	6.6	5.4	Q	Q	1.0	18.1
\$20,000 to \$24,999	5.5	4.6	Q	Q	0.8	17.3
\$25,000 to \$34,999	10.6	9.2	0.2	0.3	0.9	11.9
\$35,000 to \$49,999	11.3	10.4	Q	0.2	0.6	13.0
\$50,000 to \$74,999	13.5	12.8	0.3	Q	0.4	12.7
\$75,000 or More	10.3	10.3	Q	Q	Q	15.4
Below Poverty Line						
100 Percent	5.7	4.5	Q	Q	1.0	18.1
125 Percent	8.2	6.5	Q	0.3	1.4	14.8
Eligible for Federal Assistance¹ ..	17.1	14.0	0.3	0.5	2.3	10.8
Age of Householder						
Under 25 Years	0.9	0.5	Q	Q	0.4	38.1
25 to 34 Years	8.6	7.3	Q	Q	1.1	15.1
35 to 44 Years	16.2	14.8	0.2	Q	1.0	10.8
45 to 59 Years	20.0	18.4	0.2	Q	1.3	9.8
60 Years and Over	22.7	20.1	0.4	0.8	1.4	10.6
Race of Householder						
White	57.7	51.4	0.7	1.0	4.7	6.7
Black	6.8	6.3	Q	Q	0.3	21.8
Other ²	3.9	3.4	Q	Q	0.3	27.0
Householder of Hispanic Descent						
Yes	4.3	3.6	Q	Q	0.6	25.0
No	64.1	57.5	0.8	1.1	4.7	6.5
Household Size						
1 Person	14.4	11.7	0.3	0.8	1.7	11.0
2 Persons	24.3	22.3	0.2	0.3	1.5	9.9
3 Persons	11.8	10.8	0.2	Q	0.8	12.9
4 Persons	10.9	10.1	Q	Q	0.7	13.4
5 Persons	4.5	4.1	Q	Q	0.4	18.1
6 or More Persons	2.5	2.2	Q	Q	0.3	29.1
Household Owns or Has Regular Use of a Motor Vehicle						
No	4.7	3.8	Q	0.3	0.4	18.6
Yes	63.8	57.3	0.8	0.8	4.8	6.4
1 Vehicle	18.7	15.5	0.3	0.7	2.1	10.3
2 Vehicles	30.2	27.9	0.3	Q	1.9	8.0
3 Vehicles	10.4	9.7	Q	Q	0.6	14.6
4 or More Vehicles	4.4	4.2	Q	Q	0.2	22.4

¹ Below 150 percent of poverty line or 60 percent of median State income.

² Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC2-6a. Household Characteristics by Type of Rented Housing Unit,
Million U.S. Households, 1997**

Household Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.7	1.3	0.9	2.4	
Total Rented Units	33.0	12.6	4.7	14.6	1.1	6.3
1997 Household Income Category						
Less than \$5,000	2.5	1.0	0.3	1.2	Q	19.0
\$5,000 to \$9,999	5.6	1.5	1.1	2.8	0.2	13.4
\$10,000 to \$14,999	4.8	1.7	0.9	2.1	0.2	13.0
\$15,000 to \$19,999	3.8	1.5	0.4	1.7	0.2	14.2
\$20,000 to \$24,999	2.9	1.0	0.6	1.2	Q	15.2
\$25,000 to \$34,999	5.1	2.1	0.6	2.2	0.1	14.4
\$35,000 to \$49,999	4.2	1.8	0.4	2.0	Q	15.3
\$50,000 to \$74,999	2.9	1.5	0.4	1.0	Q	21.9
\$75,000 or More	1.2	0.6	Q	0.6	Q	28.9
Below Poverty Line						
100 Percent	9.0	3.2	1.4	3.9	0.4	10.4
125 Percent	11.5	4.0	1.8	5.2	0.5	9.7
Eligible for Federal Assistance¹ ..	17.0	6.1	2.7	7.5	0.7	9.1
Age of Householder						
Under 25 Years	4.7	1.3	0.7	2.5	0.2	14.3
25 to 34 Years	9.9	3.7	1.5	4.5	0.3	10.0
35 to 44 Years	7.0	3.4	0.9	2.4	0.3	10.7
45 to 59 Years	5.6	2.5	0.5	2.3	0.2	12.2
60 Years and Over	5.8	1.7	1.0	3.0	Q	14.8
Race of Householder						
White	20.8	8.9	2.8	8.2	0.8	7.7
Black	5.9	2.1	1.1	2.7	Q	13.5
Other ²	6.4	1.6	0.8	3.8	0.2	14.5
Householder of Hispanic Descent						
Yes	5.1	1.4	0.7	2.7	0.2	16.1
No	27.9	11.2	4.0	11.9	0.9	7.0
Household Size						
1 Person	11.1	2.6	1.9	6.4	0.2	10.3
2 Persons	8.7	3.2	1.3	3.8	0.4	11.1
3 Persons	5.6	2.7	0.5	2.2	0.2	13.0
4 Persons	4.4	2.2	0.6	1.4	0.1	13.6
5 Persons	1.9	1.1	0.2	0.5	Q	18.8
6 or More Persons	1.4	0.9	Q	0.3	Q	26.1
Household Owns or Has Regular Use of a Motor Vehicle						
No	8.2	1.9	1.6	4.5	0.2	10.8
Yes	24.8	10.7	3.1	10.1	0.9	7.2
1 Vehicle	14.8	5.0	2.1	7.2	0.5	8.6
2 Vehicles	7.8	4.2	0.8	2.5	0.2	12.0
3 Vehicles	1.6	1.1	Q	0.3	Q	23.8
4 or More Vehicles	0.6	0.4	Q	Q	Q	31.2

¹ Below 150 percent of poverty line or 60 percent of median State income.

² Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC2-7a. Household Characteristics by Four Most Populated States,
Million U.S. Households, 1997**

Household Characteristics	Four Most Populated States					RSE Row Factors
	Total	New York	California	Texas	Florida	
	RSE Column Factor: 0.4	1.1	1.2	1.4	1.4	
Total	101.5	6.8	11.5	7.0	5.9	NF
1997 Household Income Category						
Less than \$5,000	3.8	0.3	0.3	0.3	0.1	16.2
\$5,000 to \$9,999	9.6	0.9	1.1	0.6	0.7	14.2
\$10,000 to \$14,999	10.3	0.4	1.6	0.8	0.7	14.3
\$15,000 to \$19,999	10.4	0.4	1.6	0.6	0.6	11.0
\$20,000 to \$24,999	8.4	0.5	0.8	0.7	0.5	11.2
\$25,000 to \$34,999	15.6	1.2	1.5	1.0	0.8	10.5
\$35,000 to \$49,999	15.5	0.9	1.5	0.9	0.9	10.1
\$50,000 to \$74,999	16.4	1.4	1.1	1.1	1.0	10.0
\$75,000 or More	11.5	0.8	1.8	0.9	0.6	12.7
Below Poverty Line						
100 Percent	14.6	1.1	2.2	1.0	0.8	10.0
125 Percent	19.7	1.4	2.8	1.3	1.2	10.7
Eligible for Federal Assistance¹	34.1	2.2	5.0	2.3	2.0	5.7
Age of Householder						
Under 25 Years	5.7	0.3	0.7	0.5	0.3	11.0
25 to 34 Years	18.5	1.2	2.5	1.4	1.0	7.8
35 to 44 Years	23.2	1.2	2.5	1.5	1.5	5.5
45 to 59 Years	25.6	1.9	2.6	2.0	1.3	5.3
60 Years and Over	28.5	2.2	3.1	1.5	1.8	7.5
Race of Householder						
White	78.5	4.9	6.7	4.9	4.5	3.6
Black	12.7	0.7	0.9	1.1	0.9	15.5
Other ²	10.3	1.3	4.0	1.0	0.5	14.9
Householder of Hispanic Descent						
Yes	9.4	1.0	2.7	1.3	1.0	16.5
No	92.1	5.8	8.8	5.7	4.9	3.5
Household Size						
1 Person	25.6	1.8	2.5	1.5	1.4	7.5
2 Persons	33.0	2.4	3.5	2.1	2.1	5.6
3 Persons	17.4	1.2	2.4	1.2	1.0	6.8
4 Persons	15.2	1.0	1.5	1.1	1.0	7.9
5 Persons	6.4	0.3	0.8	0.6	0.3	17.1
6 or More Persons	3.9	0.2	0.7	0.4	0.2	23.3
Household Owns or Has Regular Use of a Motor Vehicle						
No	12.9	1.9	1.7	0.6	0.6	6.2
Yes	88.6	5.0	9.8	6.3	5.3	1.2
1 Vehicle	33.5	2.2	3.7	2.3	2.2	6.3
2 Vehicles	38.1	2.1	4.1	2.7	2.5	5.1
3 Vehicles	12.0	0.6	1.3	0.9	0.4	11.3
4 or More Vehicles	5.0	0.1	0.7	0.3	0.2	23.1

¹ Below 150 percent of poverty line or 60 percent of median State income.

² Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

NF = No applicable RSE row factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC2-8a. Household Characteristics by Urban/Rural Location,
Million U.S. Households, 1997**

Household Characteristics	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
RSE Column Factor:	0.5	0.8	1.4	1.4	1.4	
Total	101.5	48.2	18.2	18.6	16.5	3.9
1997 Household Income Category						
Less than \$5,000	3.8	2.1	0.7	0.3	0.6	14.3
\$5,000 to \$9,999	9.6	5.9	2.0	0.6	1.1	10.9
\$10,000 to \$14,999	10.3	5.7	2.2	1.0	1.4	10.8
\$15,000 to \$19,999	10.4	5.6	2.0	1.2	1.6	9.2
\$20,000 to \$24,999	8.4	4.1	1.6	1.1	1.6	9.1
\$25,000 to \$34,999	15.6	7.6	2.7	2.6	2.8	7.1
\$35,000 to \$49,999	15.5	6.9	2.6	3.3	2.7	7.1
\$50,000 to \$74,999	16.4	6.3	2.8	4.4	2.9	7.8
\$75,000 or More	11.5	3.9	1.7	4.1	1.7	9.6
Below Poverty Line						
100 Percent	14.6	8.8	2.9	1.0	2.0	8.4
125 Percent	19.7	11.7	3.7	1.5	2.8	8.0
Eligible for Federal Assistance²	34.1	19.0	7.1	3.0	5.0	5.8
Age of Householder						
Under 25 Years	5.7	3.4	1.2	0.6	0.5	12.7
25 to 34 Years	18.5	10.1	3.1	3.0	2.4	6.6
35 to 44 Years	23.2	10.3	4.4	4.5	4.0	5.8
45 to 59 Years	25.6	10.9	4.2	5.4	5.1	5.9
60 Years and Over	28.5	13.5	5.4	5.1	4.4	5.7
Race of Householder						
White	78.5	32.4	15.7	15.3	15.0	3.8
Black	12.7	8.5	1.3	1.9	1.0	12.5
Other ³	10.3	7.3	1.2	1.3	0.5	14.1
Householder of Hispanic Descent						
Yes	9.4	6.5	1.3	0.9	0.7	13.3
No	92.1	41.7	16.9	17.7	15.7	4.1
Household Size						
1 Person	25.6	13.5	5.0	3.9	3.1	5.6
2 Persons	33.0	14.8	5.6	6.4	6.2	5.1
3 Persons	17.4	8.6	2.8	3.2	2.8	7.0
4 Persons	15.2	6.7	2.9	3.0	2.7	6.7
5 Persons	6.4	2.7	1.3	1.4	1.0	10.9
6 or More Persons	3.9	1.9	0.6	0.7	0.7	14.8
Household Owns or Has Regular Use of a Motor Vehicle						
No	12.9	8.4	2.2	1.2	1.2	8.4
Yes	88.6	39.9	16.0	17.4	15.2	4.1
1 Vehicle	33.5	18.2	6.4	5.0	3.9	5.3
2 Vehicles	38.1	15.8	6.8	8.7	6.7	4.7
3 Vehicles	12.0	4.3	1.9	2.8	2.9	8.1
4 or More Vehicles	5.0	1.5	0.9	0.9	1.7	12.5

¹ Based on the household respondent's description rather than the Federal Government definition.

² Below 150 percent of poverty line or 60 percent of median State income.

³ Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC2-9a. Household Characteristics by Northeast Census Region,
Million U.S. Households, 1997**

Household Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.3	1.4	
Total	101.5	19.7	14.4	5.3	NF
1997 Household Income Category					
Less than \$5,000	3.8	0.7	0.6	Q	10.9
\$5,000 to \$9,999	9.6	1.8	1.5	0.3	8.9
\$10,000 to \$14,999	10.3	1.7	1.1	0.6	12.8
\$15,000 to \$19,999	10.4	1.4	0.9	0.4	8.4
\$20,000 to \$24,999	8.4	1.6	1.2	0.4	10.0
\$25,000 to \$34,999	15.6	3.3	2.3	0.9	7.3
\$35,000 to \$49,999	15.5	3.0	2.2	0.8	7.0
\$50,000 to \$74,999	16.4	3.8	2.8	1.0	6.5
\$75,000 or More	11.5	2.5	1.8	0.7	9.9
Below Poverty Line					
100 Percent	14.6	2.5	2.1	0.4	5.7
125 Percent	19.7	3.3	2.6	0.7	6.7
Eligible for Federal Assistance¹	34.1	6.4	4.6	1.9	5.3
Age of Householder					
Under 25 Years	5.7	1.0	0.7	0.3	10.8
25 to 34 Years	18.5	3.1	2.0	1.1	9.0
35 to 44 Years	23.2	4.3	3.2	1.2	4.5
45 to 59 Years	25.6	5.1	3.9	1.3	4.5
60 Years and Over	28.5	6.1	4.6	1.5	4.9
Race of Householder					
White	78.5	16.0	11.3	4.7	1.9
Black	12.7	1.8	1.5	0.3	14.2
Other ²	10.3	1.9	1.6	0.3	14.3
Householder of Hispanic Descent					
Yes	9.4	1.7	1.3	0.4	15.7
No	92.1	18.1	13.1	5.0	1.4
Household Size					
1 Person	25.6	5.1	3.8	1.4	4.7
2 Persons	33.0	6.7	5.0	1.7	3.3
3 Persons	17.4	3.2	2.3	0.9	6.1
4 Persons	15.2	3.1	2.2	0.9	6.1
5 Persons	6.4	1.1	0.7	0.3	10.0
6 or More Persons	3.9	0.5	0.4	0.1	20.5
Household Owns or Has Regular Use of a Motor Vehicle					
No	12.9	3.6	2.9	0.7	6.0
Yes	88.6	16.1	11.5	4.6	1.2
1 Vehicle	33.5	6.5	4.7	1.8	4.0
2 Vehicles	38.1	6.7	4.7	2.0	3.4
3 Vehicles	12.0	2.1	1.6	0.5	8.3
4 or More Vehicles	5.0	0.8	0.6	0.3	10.8

¹ Below 150 percent of poverty line or 60 percent of median State income.

² Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC2-10a. Household Characteristics by Midwest Census Region,
Million U.S. Households, 1997**

Household Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.8	
Total	101.5	24.1	16.9	7.2	NF
1997 Household Income Category					
Less than \$5,000	3.8	0.9	0.7	0.2	15.3
\$5,000 to \$9,999	9.6	1.6	1.1	0.5	11.9
\$10,000 to \$14,999	10.3	2.3	1.7	0.7	10.1
\$15,000 to \$19,999	10.4	2.2	1.6	0.6	10.5
\$20,000 to \$24,999	8.4	2.0	1.3	0.7	6.7
\$25,000 to \$34,999	15.6	3.8	2.6	1.2	6.1
\$35,000 to \$49,999	15.5	4.2	2.9	1.3	5.2
\$50,000 to \$74,999	16.4	4.5	3.2	1.3	7.5
\$75,000 or More	11.5	2.6	1.8	0.8	10.5
Below Poverty Line					
100 Percent	14.6	2.9	2.1	0.8	6.4
125 Percent	19.7	3.9	2.8	1.0	8.1
Eligible for Federal Assistance¹	34.1	7.2	5.3	1.9	6.0
Age of Householder					
Under 25 Years	5.7	1.1	0.8	0.3	17.8
25 to 34 Years	18.5	4.8	3.4	1.5	6.5
35 to 44 Years	23.2	5.7	4.0	1.6	5.1
45 to 59 Years	25.6	5.9	4.2	1.7	5.2
60 Years and Over	28.5	6.5	4.5	2.0	6.7
Race of Householder					
White	78.5	20.8	14.3	6.4	1.6
Black	12.7	2.3	1.9	0.4	15.3
Other ²	10.3	1.0	0.7	0.3	17.6
Householder of Hispanic Descent					
Yes	9.4	0.9	0.6	0.3	21.5
No	92.1	23.1	16.3	6.9	1.0
Household Size					
1 Person	25.6	6.2	4.4	1.8	5.9
2 Persons	33.0	7.5	5.0	2.5	5.2
3 Persons	17.4	3.9	2.8	1.1	6.8
4 Persons	15.2	3.8	2.7	1.0	7.3
5 Persons	6.4	1.7	1.3	0.4	11.4
6 or More Persons	3.9	0.9	0.7	0.3	17.9
Household Owns or Has Regular Use of a Motor Vehicle					
No	12.9	2.7	2.2	0.4	9.2
Yes	88.6	21.4	14.7	6.7	1.1
1 Vehicle	33.5	7.3	5.1	2.2	5.0
2 Vehicles	38.1	10.0	7.0	3.0	3.3
3 Vehicles	12.0	2.8	1.7	1.1	7.6
4 or More Vehicles	5.0	1.3	0.9	0.4	11.0

¹ Below 150 percent of poverty line or 60 percent of median State income.

² Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

NF = No applicable RSE row factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC2-11a. Household Characteristics by South Census Region,
Million U.S. Households, 1997**

Household Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.1	1.4	1.5	
Total	101.5	35.9	18.7	6.3	10.8	NF
1997 Household Income Category						
Less than \$5,000	3.8	1.4	0.6	0.3	0.5	16.4
\$5,000 to \$9,999	9.6	4.2	2.2	0.9	1.2	9.7
\$10,000 to \$14,999	10.3	3.8	1.7	0.8	1.3	9.9
\$15,000 to \$19,999	10.4	3.9	1.9	0.7	1.3	9.1
\$20,000 to \$24,999	8.4	3.2	1.6	0.6	1.0	9.8
\$25,000 to \$34,999	15.6	5.3	2.9	0.9	1.5	8.0
\$35,000 to \$49,999	15.5	4.9	2.6	1.0	1.2	5.7
\$50,000 to \$74,999	16.4	5.6	2.9	0.8	1.9	7.0
\$75,000 or More	11.5	3.7	2.3	0.4	1.0	10.5
Below Poverty Line						
100 Percent	14.6	5.7	2.9	1.2	1.6	8.7
125 Percent	19.7	7.8	3.9	1.6	2.3	6.7
Eligible for Federal Assistance¹	34.1	12.4	6.4	2.3	3.8	5.3
Age of Householder						
Under 25 Years	5.7	2.1	1.2	0.3	0.7	11.4
25 to 34 Years	18.5	6.3	3.0	1.1	2.2	4.6
35 to 44 Years	23.2	8.0	4.3	1.3	2.4	5.0
45 to 59 Years	25.6	9.5	4.9	1.6	3.0	4.2
60 Years and Over	28.5	9.9	5.2	2.0	2.7	5.7
Race of Householder						
White	78.5	26.2	13.3	5.2	7.7	2.8
Black	12.7	7.5	4.5	1.0	2.0	10.4
Other ²	10.3	2.1	0.9	Q	1.1	16.1
Householder of Hispanic Descent						
Yes	9.4	2.7	1.2	0.1	1.4	18.7
No	92.1	33.1	17.5	6.2	9.4	1.6
Household Size						
1 Person	25.6	8.9	4.5	1.7	2.7	4.7
2 Persons	33.0	12.0	6.6	2.1	3.3	3.9
3 Persons	17.4	6.4	3.3	1.2	1.9	5.4
4 Persons	15.2	5.2	2.8	0.9	1.6	5.5
5 Persons	6.4	2.0	0.9	0.3	0.9	11.9
6 or More Persons	3.9	1.3	0.6	0.2	0.5	15.9
Household Owns or Has Regular Use of a Motor Vehicle						
No	12.9	4.1	2.2	0.8	1.1	7.3
Yes	88.6	31.8	16.5	5.6	9.8	1.0
1 Vehicle	33.5	12.2	6.6	1.9	3.7	4.4
2 Vehicles	38.1	13.6	6.8	2.6	4.2	4.3
3 Vehicles	12.0	4.4	2.3	0.9	1.3	7.1
4 or More Vehicles	5.0	1.6	0.8	0.3	0.6	14.8

¹ Below 150 percent of poverty line or 60 percent of median State income.

² Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC2-12a. Household Characteristics by West Census Region,
Million U.S. Households, 1997**

Household Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
Total	101.5	21.8	6.2	15.6	NF
1997 Household Income Category					
Less than \$5,000	3.8	0.8	0.3	0.5	12.4
\$5,000 to \$9,999	9.6	1.9	0.5	1.5	10.9
\$10,000 to \$14,999	10.3	2.6	0.5	2.0	9.7
\$15,000 to \$19,999	10.4	2.9	0.9	2.0	8.4
\$20,000 to \$24,999	8.4	1.7	0.6	1.0	8.3
\$25,000 to \$34,999	15.6	3.3	1.0	2.3	7.2
\$35,000 to \$49,999	15.5	3.5	1.0	2.4	7.8
\$50,000 to \$74,999	16.4	2.5	0.7	1.9	9.7
\$75,000 or More	11.5	2.7	0.6	2.1	13.9
Below Poverty Line					
100 Percent	14.6	3.6	0.9	2.7	6.9
125 Percent	19.7	4.7	1.2	3.5	8.1
Eligible for Federal Assistance¹	34.1	8.1	1.9	6.2	6.2
Age of Householder					
Under 25 Years	5.7	1.5	0.5	1.0	12.3
25 to 34 Years	18.5	4.2	1.1	3.1	8.1
35 to 44 Years	23.2	5.1	1.5	3.7	5.1
45 to 59 Years	25.6	5.0	1.5	3.5	6.5
60 Years and Over	28.5	5.9	1.6	4.3	4.9
Race of Householder					
White	78.5	15.4	5.4	10.0	2.3
Black	12.7	1.1	0.2	1.0	14.5
Other ²	10.3	5.3	0.6	4.6	9.2
Householder of Hispanic Descent					
Yes	9.4	4.1	1.1	3.0	12.6
No	92.1	17.7	5.0	12.7	2.7
Household Size					
1 Person	25.6	5.3	1.3	3.9	6.0
2 Persons	33.0	6.8	2.1	4.6	5.1
3 Persons	17.4	3.9	0.9	3.0	5.6
4 Persons	15.2	3.2	1.1	2.0	5.5
5 Persons	6.4	1.6	0.5	1.1	10.3
6 or More Persons	3.9	1.1	0.2	0.9	17.9
Household Owns or Has Regular Use of a Motor Vehicle					
No	12.9	2.5	0.4	2.1	9.7
Yes	88.6	19.3	5.7	13.5	1.2
1 Vehicle	33.5	7.5	2.0	5.5	4.6
2 Vehicles	38.1	7.8	2.4	5.4	4.8
3 Vehicles	12.0	2.7	0.9	1.8	10.2
4 or More Vehicles	5.0	1.3	0.5	0.9	13.7

¹ Below 150 percent of poverty line or 60 percent of median State income.

² Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

NF = No applicable RSE row factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

1997 Housing Characteristics Tables

Household Tables

(Percent of U.S. Households; 13 pages, 54 kb)

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These data are from the 1997 Residential Energy Consumption Survey (RECS) which provides information on the use of energy in residential housing units in the United States. The RECS is a national statistical survey that collects data for occupied primary housing units. RECS was first conducted in 1978; the sixth and most recent survey was conducted in 1997 RECS. The data were collected from a sample of 5,900 housing units statistically selected to represent the 101.5 million units in the United States. The 1997 data are available for the four Census regions, the nine Census divisions, and for the four most populous States--California, Florida, New York, and Texas.

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

**Table HC2-1b. Household Characteristics by Climate Zone,
Percent of U.S. Households, 1997**

Household Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.6	1.0	1.0	1.2	1.1	
Total	100.0	100.0	100.0	100.0	100.0	100.0	0.0
1997 Household Income Category							
Less than \$5,000	3.7	2.6	3.7	3.6	3.2	4.7	14.1
\$5,000 to \$9,999	9.4	6.5	6.6	10.6	11.8	11.0	10.3
\$10,000 to \$14,999	10.2	11.6	8.1	8.9	12.7	11.2	10.2
\$15,000 to \$19,999	10.2	8.6	9.4	7.9	11.9	12.9	9.5
\$20,000 to \$24,999	8.3	9.5	8.1	8.3	8.0	8.3	8.8
\$25,000 to \$34,999	15.4	13.7	15.9	16.5	15.7	14.1	7.2
\$35,000 to \$49,999	15.3	22.4	16.7	14.3	13.9	12.6	6.5
\$50,000 to \$74,999	16.2	15.6	19.5	17.4	11.0	15.6	6.7
\$75,000 or More	11.3	9.5	12.0	12.5	11.8	9.5	11.4
Below Poverty Line							
100 Percent	14.4	11.1	11.8	13.6	18.8	16.2	6.7
125 Percent	19.4	15.3	15.1	18.8	24.9	22.3	7.3
Eligible for Federal Assistance² ..	33.6	30.3	29.2	33.6	39.0	35.7	5.4
Age of Householder							
Under 25 Years	5.6	4.5	5.9	3.5	6.2	7.1	12.8
25 to 34 Years	18.3	18.5	18.8	16.4	19.8	18.0	6.0
35 to 44 Years	22.8	25.3	23.7	22.0	22.4	22.0	4.8
45 to 59 Years	25.2	23.2	25.8	27.4	24.3	24.0	4.7
60 Years and Over	28.1	28.4	25.8	30.8	27.2	28.8	5.4
Race of Householder							
White	77.3	95.8	84.7	76.8	65.0	71.8	2.5
Black	12.5	Q	9.2	14.4	15.3	17.2	10.8
Other ³	10.2	3.4	6.1	8.8	19.7	11.0	13.7
Householder of Hispanic Descent							
Yes	9.3	3.8	5.6	6.1	14.5	14.9	15.4
No	90.7	96.2	94.4	93.9	85.5	85.1	1.6
Household Size							
1 Person	25.2	27.0	23.4	28.5	23.9	24.5	5.3
2 Persons	32.5	30.3	34.7	30.5	32.5	32.6	4.6
3 Persons	17.2	15.3	15.6	19.1	18.0	17.2	5.8
4 Persons	15.0	16.8	16.8	13.3	13.7	15.0	5.6
5 Persons	6.3	7.5	6.8	4.9	6.7	6.3	11.5
6 or More Persons	3.8	3.1	2.7	3.6	5.2	4.4	15.7

See footnotes at end of table.

**Table HC2-1b. Household Characteristics by Climate Zone,
Percent of U.S. Households, 1997 (Continued)**

Household Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.6	1.0	1.0	1.2	1.1	
Household Owns or Has Regular Use of a Motor Vehicle							
No	12.7	8.9	11.5	16.4	15.0	10.1	7.7
Yes	87.3	91.1	88.5	83.6	85.0	89.9	1.2
1 Vehicle	33.0	27.4	32.3	34.5	31.3	36.3	4.1
2 Vehicles	37.5	44.6	39.6	32.0	37.2	37.8	3.8
3 Vehicles	11.8	13.1	11.3	12.8	11.6	11.1	8.2
4 or More Vehicles	4.9	5.8	5.3	4.4	5.0	4.8	13.0

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

² Below 150 percent of poverty line or 60 percent of median State income.

³ Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

Table HC2-2b. Household Characteristics by Year of Construction, Percent of U.S. Households, 1997

Household Characteristics	Total	Year of Construction ¹						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.7	1.2	1.0	1.2	1.1	0.9	
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
1997 Household Income Category								
Less than \$5,000	3.7	1.3	2.3	2.9	4.1	4.0	5.6	17.0
\$5,000 to \$9,999	9.4	7.6	8.1	9.8	8.3	9.8	11.0	11.3
\$10,000 to \$14,999	10.2	6.3	7.7	8.7	10.4	12.3	13.0	10.4
\$15,000 to \$19,999	10.2	5.9	10.6	9.9	10.9	11.8	10.8	10.0
\$20,000 to \$24,999	8.3	7.7	7.5	7.8	9.2	8.4	8.8	10.0
\$25,000 to \$34,999	15.4	13.1	12.7	17.6	17.8	14.8	15.4	7.4
\$35,000 to \$49,999	15.3	17.7	14.6	14.5	15.3	16.2	14.9	7.2
\$50,000 to \$74,999	16.2	20.2	21.3	17.3	12.8	15.1	13.0	8.1
\$75,000 or More	11.3	20.2	15.3	11.4	11.0	7.6	7.5	10.6
Below Poverty Line								
100 Percent	14.4	8.7	10.4	13.7	15.5	16.4	18.0	8.4
125 Percent	19.4	12.7	15.4	18.5	19.4	21.5	23.9	7.5
Eligible for Federal Assistance² ..	33.6	22.5	27.2	31.3	32.4	37.4	41.9	5.5
Age of Householder								
Under 25 Years	5.6	6.3	6.2	6.3	5.3	4.7	5.0	13.1
25 to 34 Years	18.3	22.2	18.6	18.8	19.4	14.8	17.2	6.8
35 to 44 Years	22.8	32.7	25.2	21.1	18.6	21.6	22.0	5.5
45 to 59 Years	25.2	20.9	26.6	30.4	24.1	22.8	23.9	5.7
60 Years and Over	28.1	17.9	23.4	23.4	32.6	36.0	32.0	5.9
Race of Householder								
White	77.3	83.6	78.8	82.4	75.1	75.2	72.8	2.0
Black	12.5	6.8	12.8	8.5	14.1	14.3	15.6	11.4
Other ³	10.2	9.6	8.4	9.1	10.8	10.5	11.6	11.5
Householder of Hispanic Descent								
Yes	9.3	8.4	7.6	9.2	9.0	11.5	9.9	13.1
No	90.7	91.6	92.4	90.8	91.0	88.5	90.1	1.3
Household Size								
1 Person	25.2	17.4	24.7	24.3	26.6	25.2	28.1	6.2
2 Persons	32.5	34.0	32.1	32.2	35.2	31.9	31.4	4.6
3 Persons	17.2	15.6	17.3	17.9	16.3	18.5	16.9	7.0
4 Persons	15.0	19.1	15.4	16.9	13.4	14.7	13.0	6.9
5 Persons	6.3	9.7	7.1	5.3	6.1	5.1	6.1	12.0
6 or More Persons	3.8	4.2	3.5	3.3	2.4	4.6	4.6	17.5
Household Owns or Has Regular Use of a Motor Vehicle								
No	12.7	6.2	7.6	11.0	12.1	13.1	19.5	10.0
Yes	87.3	93.8	92.4	89.0	87.9	86.9	80.5	1.3
1 Vehicle	33.0	28.9	32.2	31.0	33.9	34.2	35.4	4.9
2 Vehicles	37.5	49.1	41.1	38.8	38.5	36.5	30.3	4.0
3 Vehicles	11.8	12.1	13.3	12.4	11.4	13.0	10.0	9.0
4 or More Vehicles	4.9	3.7	5.7	6.7	4.2	3.2	4.9	14.5

¹ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

² Below 150 percent of poverty line or 60 percent of median State income.

³ Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

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. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

Table HC2-3b. Household Characteristics by Household Income, Percent of U.S. Households, 1997

Household Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.4	0.9	1.0	1.0	1.3	0.9	
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
1997 Household Income Category								
Less than \$5,000	3.7	28.2	--	--	--	25.6	11.0	6.6
\$5,000 to \$9,999	9.4	71.8	--	--	--	48.5	28.0	3.8
\$10,000 to \$14,999	10.2	--	35.4	--	--	18.4	28.8	5.7
\$15,000 to \$19,999	10.2	--	35.7	--	--	6.5	17.8	6.5
\$20,000 to \$24,999	8.3	--	28.9	--	--	Q	8.1	6.9
\$25,000 to \$34,999	15.4	--	--	50.2	--	Q	5.8	5.5
\$35,000 to \$49,999	15.3	--	--	49.8	--	--	0.5	7.8
\$50,000 to \$74,999	16.2	--	--	--	58.8	--	--	4.1
\$75,000 or More	11.3	--	--	--	41.2	--	--	5.8
Below Poverty Line								
100 Percent	14.4	81.6	13.0	Q	--	100.0	43.0	3.3
125 Percent	19.4	97.1	22.3	0.8	--	100.0	57.7	7.5
Eligible for Federal Assistance¹ ..	33.6	100.0	64.0	6.9	--	100.0	100.0	5.1
Age of Householder								
Under 25 Years	5.6	10.4	8.2	4.6	1.6	10.6	9.2	10.4
25 to 34 Years	18.3	12.0	18.1	22.5	16.8	18.3	17.9	6.0
35 to 44 Years	22.8	13.1	16.8	23.9	32.6	17.4	17.8	5.0
45 to 59 Years	25.2	16.1	19.5	24.1	36.8	16.9	17.3	4.9
60 Years and Over	28.1	48.5	37.4	25.0	12.2	36.8	37.8	4.5
Race of Householder								
White	77.3	58.9	74.4	81.0	85.2	53.5	64.4	2.2
Black	12.5	25.4	13.2	10.3	8.1	25.2	19.2	8.0
Other ²	10.2	15.8	12.4	8.7	6.7	21.3	16.4	8.9
Householder of Hispanic Descent								
Yes	9.3	14.1	12.0	7.9	5.7	18.9	15.0	10.3
No	90.7	85.9	88.0	92.1	94.3	81.1	85.0	1.6
Household Size								
1 Person	25.2	51.7	33.0	20.3	9.9	32.9	31.1	4.2
2 Persons	32.5	22.1	32.7	36.1	33.3	18.1	24.3	4.3
3 Persons	17.2	11.3	14.2	17.6	22.5	13.9	16.0	6.0
4 Persons	15.0	8.1	11.3	15.5	21.6	14.8	14.8	5.6
5 Persons	6.3	3.3	5.1	6.8	8.5	10.7	7.6	9.7
6 or More Persons	3.8	3.5	3.7	3.7	4.2	9.7	6.2	12.9
Household Owns or Has Regular Use of a Motor Vehicle								
No	12.7	48.4	14.6	4.7	2.8	40.4	28.8	5.8
Yes	87.3	51.6	85.4	95.3	97.2	59.6	71.2	1.9
1 Vehicle	33.0	38.5	47.3	35.3	12.9	37.6	39.9	3.6
2 Vehicles	37.5	10.9	28.8	43.2	53.0	16.1	22.8	4.0
3 Vehicles	11.8	1.7	6.8	12.6	20.9	4.2	6.1	9.4
4 or More Vehicles	4.9	Q	2.5	4.3	10.4	1.6	2.4	13.8

¹ Below 150 percent of poverty line or 60 percent of median State income.

² Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

-- = Data not applicable.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC2-4b. Household Characteristics by Type of Housing Unit,
Percent of U.S. Households, 1997**

Household Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.6	1.7	1.3	1.7	
Total	100.0	100.0	100.0	100.0	100.0	0.0
1997 Household Income Category						
Less than \$5,000	3.7	2.6	5.7	7.6	5.6	15.0
\$5,000 to \$9,999	9.4	6.4	21.1	18.8	10.8	9.8
\$10,000 to \$14,999	10.2	8.2	16.7	14.5	15.8	9.5
\$15,000 to \$19,999	10.2	9.4	9.1	11.2	19.3	9.4
\$20,000 to \$24,999	8.3	7.6	12.0	7.7	14.8	9.2
\$25,000 to \$34,999	15.4	15.3	14.3	15.8	16.2	7.7
\$35,000 to \$49,999	15.3	16.5	9.5	13.9	10.3	8.9
\$50,000 to \$74,999	16.2	19.4	11.4	6.7	6.5	10.9
\$75,000 or More	11.3	14.7	Q	3.8	Q	12.3
Below Poverty Line						
100 Percent	14.4	10.5	26.6	25.4	22.0	7.3
125 Percent	19.4	14.3	33.2	34.3	29.9	6.4
Eligible for Federal Assistance¹ ..	33.6	27.2	53.3	50.8	47.4	4.6
Age of Householder						
Under 25 Years	5.6	2.4	13.9	15.8	9.4	11.3
25 to 34 Years	18.3	15.0	27.8	28.8	21.5	6.1
35 to 44 Years	22.8	24.7	20.4	16.3	20.3	6.0
45 to 59 Years	25.2	28.3	12.5	15.6	24.4	5.9
60 Years and Over	28.1	29.6	25.4	23.6	24.4	6.2
Race of Householder						
White	77.3	81.9	61.4	58.0	86.9	2.4
Black	12.5	11.4	22.5	17.2	4.7	9.9
Other ²	10.2	6.7	16.1	24.8	8.4	11.6
Householder of Hispanic Descent						
Yes	9.3	6.9	14.9	17.6	11.9	12.4
No	90.7	93.1	85.1	82.4	88.1	1.9
Household Size						
1 Person	25.2	19.3	40.0	45.4	30.2	4.4
2 Persons	32.5	34.5	27.1	26.0	29.7	5.0
3 Persons	17.2	18.3	12.2	14.1	16.0	7.4
4 Persons	15.0	16.6	13.3	9.5	12.2	7.5
5 Persons	6.3	7.0	4.4	3.4	7.2	12.5
6 or More Persons	3.8	4.3	3.0	1.7	4.6	19.6
Household Owns or Has Regular Use of a Motor Vehicle						
No	12.7	7.8	29.9	30.7	10.1	7.6
Yes	87.3	92.2	70.1	69.3	89.9	1.9
1 Vehicle	33.0	27.9	42.7	49.8	42.1	3.9
2 Vehicles	37.5	43.6	20.3	16.6	34.5	5.2
3 Vehicles	11.8	14.6	5.6	1.8	10.1	10.5
4 or More Vehicles	4.9	6.2	Q	1.1	3.2	16.9

¹ Below 150 percent of poverty line or 60 percent of median State income.

² Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

Table HC2-5b. Household Characteristics by Type of Owner-Occupied Housing Unit, Percent of U.S. Households, 1997

Household Characteristics	Total Owner-Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.4	2.9	1.9	1.1	
Total Owner-Occupied Units	100.0	100.0	100.0	100.0	100.0	0.0
1997 Household Income Category						
Less than \$5,000	1.8	1.5	Q	Q	4.4	30.5
\$5,000 to \$9,999	5.7	5.2	Q	Q	9.5	19.8
\$10,000 to \$14,999	8.0	7.2	Q	16.6	15.6	17.2
\$15,000 to \$19,999	9.7	8.8	Q	Q	19.5	15.2
\$20,000 to \$24,999	8.0	7.5	Q	Q	15.5	14.6
\$25,000 to \$34,999	15.4	15.1	17.9	25.2	16.6	10.6
\$35,000 to \$49,999	16.5	16.9	Q	16.4	11.3	11.8
\$50,000 to \$74,999	19.8	20.9	30.2	Q	6.8	12.2
\$75,000 or More	15.1	16.8	Q	Q	Q	13.2
Below Poverty Line						
100 Percent	8.3	7.4	Q	Q	18.5	15.2
125 Percent	12.0	10.6	Q	22.0	26.1	13.2
Eligible for Federal Assistance¹ ..	25.0	22.9	30.9	41.6	44.5	8.0
Age of Householder						
Under 25 Years	1.4	0.8	Q	Q	7.3	34.4
25 to 34 Years	12.6	12.0	Q	Q	21.1	12.2
35 to 44 Years	23.6	24.2	25.1	Q	19.1	10.0
45 to 59 Years	29.2	30.0	17.4	Q	25.6	7.7
60 Years and Over	33.2	32.9	42.5	66.9	26.9	6.8
Race of Householder						
White	84.3	84.1	71.3	84.6	88.7	2.9
Black	9.9	10.3	Q	Q	4.9	19.8
Other ²	5.7	5.5	Q	Q	6.4	24.4
Householder of Hispanic Descent						
Yes	6.3	5.9	Q	Q	10.6	23.0
No	93.7	94.1	88.3	95.4	89.4	2.1
Household Size						
1 Person	21.1	19.1	34.1	65.8	31.7	6.8
2 Persons	35.5	36.5	22.7	25.4	28.7	8.4
3 Persons	17.3	17.7	18.6	Q	15.2	10.5
4 Persons	15.9	16.5	Q	Q	12.5	11.0
5 Persons	6.6	6.7	Q	Q	7.0	16.2
6 or More Persons	3.7	3.6	Q	Q	4.8	26.9
Household Owns or Has Regular Use of a Motor Vehicle						
No	6.9	6.3	Q	28.8	8.2	16.7
Yes	93.1	93.7	88.1	71.2	91.8	2.4
1 Vehicle	27.3	25.4	35.7	58.2	40.7	6.7
2 Vehicles	44.2	45.7	32.5	Q	37.0	6.2
3 Vehicles	15.2	15.8	Q	Q	10.5	12.1
4 or More Vehicles	6.5	6.9	Q	Q	3.6	21.0

¹ Below 150 percent of poverty line or 60 percent of median State income.

² Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC2-6b. Household Characteristics by Type of Rented Housing Unit,
Percent of U.S. Households, 1997**

Household Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.7	1.3	0.9	2.3	
Total Rented Units	100.0	100.0	100.0	100.0	100.0	0.0
1997 Household Income Category						
Less than \$5,000	7.7	7.5	6.5	8.0	Q	18.2
\$5,000 to \$9,999	17.1	12.1	24.0	19.0	17.5	12.0
\$10,000 to \$14,999	14.6	13.1	18.6	14.4	17.1	11.3
\$15,000 to \$19,999	11.4	12.2	8.3	11.4	18.0	12.8
\$20,000 to \$24,999	8.9	8.1	13.3	7.9	Q	14.2
\$25,000 to \$34,999	15.4	16.5	13.5	15.1	14.1	13.0
\$35,000 to \$49,999	12.7	14.1	7.8	13.7	Q	13.7
\$50,000 to \$74,999	8.7	12.0	7.7	6.5	Q	20.9
\$75,000 or More	3.5	4.4	Q	4.0	Q	28.5
Below Poverty Line						
100 Percent	27.2	25.4	30.2	26.9	39.2	8.4
125 Percent	34.8	31.9	38.1	35.2	48.5	7.5
Eligible for Federal Assistance¹ ..	51.4	48.0	57.7	51.5	61.3	6.1
Age of Householder						
Under 25 Years	14.3	10.1	15.9	17.0	19.7	13.1
25 to 34 Years	29.9	29.5	31.0	30.4	23.7	7.8
35 to 44 Years	21.2	27.0	19.4	16.5	25.9	8.3
45 to 59 Years	17.0	20.1	11.5	15.9	18.7	11.2
60 Years and Over	17.6	13.3	22.1	20.2	Q	13.3
Race of Householder						
White	62.8	70.9	59.4	55.8	78.4	4.3
Black	17.9	16.6	23.3	18.3	Q	12.1
Other ²	19.3	12.5	17.3	25.9	18.0	13.4
Householder of Hispanic Descent						
Yes	15.5	11.5	15.5	18.7	18.3	15.2
No	84.5	88.5	84.5	81.3	81.7	2.8
Household Size						
1 Person	33.7	20.2	41.1	43.7	22.5	7.9
2 Persons	26.3	25.1	28.0	26.1	34.7	8.5
3 Persons	16.9	21.3	11.0	14.8	19.9	11.5
4 Persons	13.2	17.1	13.5	9.9	11.1	12.9
5 Persons	5.8	8.8	3.9	3.6	Q	18.9
6 or More Persons	4.1	7.4	Q	1.8	Q	25.4
Household Owns or Has Regular Use of a Motor Vehicle						
No	24.9	15.3	33.4	30.8	19.5	9.2
Yes	75.1	84.7	66.6	69.2	80.5	2.9
1 Vehicle	44.9	39.9	44.1	49.1	49.2	5.4
2 Vehicles	23.7	33.4	17.9	17.3	22.1	10.0
3 Vehicles	4.7	8.5	Q	1.8	Q	23.1
4 or More Vehicles	1.8	2.9	Q	Q	Q	30.8

¹ Below 150 percent of poverty line or 60 percent of median State income.

² Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC2-7b. Household Characteristics by Four Most Populated States,
Percent of U.S. Households, 1997**

Household Characteristics	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.1	1.2	1.4	1.4	
Total	100.0	100.0	100.0	100.0	100.0	0.0
1997 Household Income Category						
Less than \$5,000	3.7	4.3	2.8	4.8	1.9	16.2
\$5,000 to \$9,999	9.4	12.9	9.9	8.2	12.4	14.2
\$10,000 to \$14,999	10.2	6.5	14.3	11.4	12.1	14.3
\$15,000 to \$19,999	10.2	5.5	14.1	8.4	10.1	11.0
\$20,000 to \$24,999	8.3	7.5	7.0	10.0	7.8	11.2
\$25,000 to \$34,999	15.4	16.9	13.4	14.9	13.0	10.5
\$35,000 to \$49,999	15.3	13.8	13.2	13.2	15.4	10.1
\$50,000 to \$74,999	16.2	20.9	9.6	16.4	16.7	10.0
\$75,000 or More	11.3	11.5	15.6	12.6	10.7	12.7
Below Poverty Line						
100 Percent	14.4	16.3	18.8	14.1	13.9	10.0
125 Percent	19.4	20.3	24.7	19.1	21.0	10.7
Eligible for Federal Assistance¹	33.6	31.6	43.2	32.8	33.1	5.7
Age of Householder						
Under 25 Years	5.6	4.8	6.4	7.6	5.3	11.0
25 to 34 Years	18.3	17.3	22.1	20.7	17.4	7.8
35 to 44 Years	22.8	18.0	22.0	21.2	24.6	5.5
45 to 59 Years	25.2	27.8	22.7	28.6	22.1	5.3
60 Years and Over	28.1	32.1	26.8	21.9	30.7	7.5
Race of Householder						
White	77.3	71.1	58.0	70.1	75.5	3.6
Black	12.5	10.2	7.5	16.1	15.4	15.5
Other ²	10.2	18.8	34.5	13.7	9.0	14.9
Householder of Hispanic Descent						
Yes	9.3	15.0	23.7	18.3	16.7	16.5
No	90.7	85.0	76.3	81.7	83.3	3.5
Household Size						
1 Person	25.2	26.1	21.7	22.0	23.2	7.5
2 Persons	32.5	34.6	30.0	29.5	36.0	5.6
3 Persons	17.2	18.1	21.1	17.8	16.5	6.8
4 Persons	15.0	14.8	13.4	15.9	16.4	7.9
5 Persons	6.3	4.2	7.3	9.1	5.0	17.1
6 or More Persons	3.8	2.2	6.4	5.6	3.0	23.3
Household Owns or Has Regular Use of a Motor Vehicle						
No	12.7	27.3	14.7	8.9	10.8	6.2
Yes	87.3	72.7	85.3	91.1	89.2	1.2
1 Vehicle	33.0	31.8	32.6	33.5	37.7	6.3
2 Vehicles	37.5	30.6	35.5	39.5	41.4	5.1
3 Vehicles	11.8	8.4	11.2	13.1	7.4	11.3
4 or More Vehicles	4.9	1.9	6.0	5.0	2.7	23.1

¹ Below 150 percent of poverty line or 60 percent of median State income.

² Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

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. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC2-8b. Household Characteristics by Urban/Rural Location,
Percent of U.S. Households, 1997**

Household Characteristics	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
RSE Column Factor:	0.5	0.8	1.3	1.4	1.4	
Total	100.0	100.0	100.0	100.0	100.0	0.0
1997 Household Income Category						
Less than \$5,000	3.7	4.4	4.0	1.6	3.7	14.3
\$5,000 to \$9,999	9.4	12.2	10.9	3.0	6.9	10.5
\$10,000 to \$14,999	10.2	11.8	12.1	5.5	8.5	9.7
\$15,000 to \$19,999	10.2	11.6	10.7	6.5	9.9	8.4
\$20,000 to \$24,999	8.3	8.6	8.5	5.8	10.0	8.8
\$25,000 to \$34,999	15.4	15.7	14.6	13.8	17.2	6.2
\$35,000 to \$49,999	15.3	14.4	14.4	17.6	16.2	6.1
\$50,000 to \$74,999	16.2	13.1	15.1	23.9	17.5	6.6
\$75,000 or More	11.3	8.2	9.6	22.3	10.1	8.8
Below Poverty Line						
100 Percent	14.4	18.2	15.7	5.6	11.9	7.9
125 Percent	19.4	24.2	20.5	8.0	16.7	7.4
Eligible for Federal Assistance²	33.6	39.5	38.9	15.9	30.4	4.8
Age of Householder						
Under 25 Years	5.6	7.1	6.5	3.0	3.2	12.3
25 to 34 Years	18.3	20.9	16.8	16.1	14.7	5.8
35 to 44 Years	22.8	21.4	23.9	24.1	24.5	4.5
45 to 59 Years	25.2	22.6	23.0	29.2	30.7	4.4
60 Years and Over	28.1	28.0	29.8	27.6	26.9	4.5
Race of Householder						
White	77.3	67.2	86.3	82.6	91.1	1.8
Black	12.5	17.6	7.0	10.3	6.1	11.9
Other ³	10.2	15.2	6.7	7.1	2.7	13.3
Householder of Hispanic Descent						
Yes	9.3	13.5	7.3	4.7	4.3	12.8
No	90.7	86.5	92.7	95.3	95.7	1.3
Household Size						
1 Person	25.2	27.9	27.7	21.0	19.1	4.4
2 Persons	32.5	30.7	30.7	34.7	37.4	3.6
3 Persons	17.2	17.9	15.5	17.3	16.8	5.8
4 Persons	15.0	13.8	15.9	15.9	16.5	5.8
5 Persons	6.3	5.7	7.0	7.6	6.1	10.5
6 or More Persons	3.8	4.0	3.3	3.5	4.1	14.4
Household Owns or Has Regular Use of a Motor Vehicle						
No	12.7	17.3	11.9	6.3	7.4	7.7
Yes	87.3	82.7	88.1	93.7	92.6	1.1
1 Vehicle	33.0	37.8	35.4	26.8	23.4	4.0
2 Vehicles	37.5	32.8	37.4	47.0	40.8	3.3
3 Vehicles	11.8	8.9	10.5	15.1	17.9	7.1
4 or More Vehicles	4.9	3.2	4.8	4.8	10.4	11.6

¹ Based on the household respondent's description rather than the Federal Government definition.

² Below 150 percent of poverty line or 60 percent of median State income.

³ Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

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. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC2-9b. Household Characteristics by Northeast Census Region,
Percent of U.S. Households, 1997**

Household Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.3	1.4	
Total	100.0	100.0	100.0	100.0	0.0
1997 Household Income Category					
Less than \$5,000	3.7	3.7	4.4	Q	10.9
\$5,000 to \$9,999	9.4	9.2	10.3	6.3	8.9
\$10,000 to \$14,999	10.2	8.5	7.5	11.3	12.8
\$15,000 to \$19,999	10.2	6.9	6.4	8.2	8.4
\$20,000 to \$24,999	8.3	8.0	8.4	6.8	10.0
\$25,000 to \$34,999	15.4	16.6	16.2	17.7	7.3
\$35,000 to \$49,999	15.3	15.1	15.1	15.1	7.0
\$50,000 to \$74,999	16.2	19.3	19.1	19.7	6.5
\$75,000 or More	11.3	12.8	12.6	13.2	9.9
Below Poverty Line					
100 Percent	14.4	12.8	14.6	7.7	5.7
125 Percent	19.4	16.8	18.3	12.7	6.7
Eligible for Federal Assistance¹	33.6	32.6	31.6	35.3	5.3
Age of Householder					
Under 25 Years	5.6	5.0	5.1	4.8	10.8
25 to 34 Years	18.3	16.0	14.0	21.2	9.0
35 to 44 Years	22.8	22.0	22.1	21.7	4.5
45 to 59 Years	25.2	26.1	26.8	24.2	4.5
60 Years and Over	28.1	30.9	32.0	28.0	4.9
Race of Householder					
White	77.3	81.2	78.4	88.9	1.9
Black	12.5	9.2	10.5	5.6	14.2
Other ²	10.2	9.6	11.1	5.5	14.3
Householder of Hispanic Descent					
Yes	9.3	8.4	9.0	6.6	15.7
No	90.7	91.6	91.0	93.4	1.4
Household Size					
1 Person	25.2	26.1	26.2	25.7	4.7
2 Persons	32.5	33.8	34.6	31.7	3.3
3 Persons	17.2	16.4	16.2	17.0	6.1
4 Persons	15.0	15.6	15.1	16.8	6.1
5 Persons	6.3	5.4	5.1	6.3	10.0
6 or More Persons	3.8	2.7	2.8	2.4	20.5
Household Owns or Has Regular Use of a Motor Vehicle					
No	12.7	18.4	20.2	13.5	6.0
Yes	87.3	81.6	79.8	86.5	1.2
1 Vehicle	33.0	33.0	32.9	33.4	4.0
2 Vehicles	37.5	33.7	32.2	37.7	3.4
3 Vehicles	11.8	10.6	10.8	10.3	8.3
4 or More Vehicles	4.9	4.2	3.9	5.1	10.8

¹ Below 150 percent of poverty line or 60 percent of median State income.

² Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC2-10b. Household Characteristics by Midwest Census Region,
Percent of U.S. Households, 1997**

Household Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.8	
Total	100.0	100.0	100.0	100.0	0.0
1997 Household Income Category					
Less than \$5,000	3.7	3.6	3.9	2.9	15.3
\$5,000 to \$9,999	9.4	6.6	6.8	6.3	11.9
\$10,000 to \$14,999	10.2	9.6	9.8	9.1	10.1
\$15,000 to \$19,999	10.2	9.3	9.6	8.7	10.5
\$20,000 to \$24,999	8.3	8.1	7.6	9.4	6.7
\$25,000 to \$34,999	15.4	15.8	15.6	16.2	6.1
\$35,000 to \$49,999	15.3	17.5	17.2	18.2	5.2
\$50,000 to \$74,999	16.2	18.8	19.2	17.9	7.5
\$75,000 or More	11.3	10.7	10.4	11.4	10.5
Below Poverty Line					
100 Percent	14.4	12.0	12.5	10.7	6.4
125 Percent	19.4	16.0	16.8	14.1	8.1
Eligible for Federal Assistance¹	33.6	29.8	31.1	26.8	6.0
Age of Householder					
Under 25 Years	5.6	4.7	5.0	3.9	17.8
25 to 34 Years	18.3	20.0	19.9	20.3	6.5
35 to 44 Years	22.8	23.5	23.8	23.0	5.1
45 to 59 Years	25.2	24.6	24.7	24.3	5.2
60 Years and Over	28.1	27.2	26.6	28.5	6.7
Race of Householder					
White	77.3	86.3	84.8	89.9	1.6
Black	12.5	9.4	11.1	5.5	15.3
Other ²	10.2	4.3	4.1	4.6	17.6
Householder of Hispanic Descent					
Yes	9.3	3.9	3.8	4.1	21.5
No	90.7	96.1	96.2	95.9	1.0
Household Size					
1 Person	25.2	25.8	25.9	25.6	5.9
2 Persons	32.5	31.4	29.8	35.1	5.2
3 Persons	17.2	16.2	16.6	15.3	6.8
4 Persons	15.0	15.6	16.1	14.4	7.3
5 Persons	6.3	7.2	7.6	6.1	11.4
6 or More Persons	3.8	3.8	3.9	3.6	17.9
Household Owns or Has Regular Use of a Motor Vehicle					
No	12.7	11.1	13.1	6.2	9.2
Yes	87.3	88.9	86.9	93.8	1.1
1 Vehicle	33.0	30.5	30.4	30.7	5.0
2 Vehicles	37.5	41.5	41.2	42.4	3.3
3 Vehicles	11.8	11.7	10.2	15.2	7.6
4 or More Vehicles	4.9	5.2	5.1	5.5	11.0

¹ Below 150 percent of poverty line or 60 percent of median State income.

² Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

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. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC2-11b. Household Characteristics by South Census Region,
Percent of U.S. Households, 1997**

Household Characteristics	Total U.S.	South Census Region				RSE Row Factors	
		Total	Census Division				
			South Atlantic	East South Central	West South Central		
RSE Column Factor:	0.5	0.8	1.1	1.4	1.5		
Total	100.0	100.0	100.0	100.0	100.0	100.0	0.0
1997 Household Income Category							
Less than \$5,000	3.7	3.9	3.2	5.4	4.2		16.4
\$5,000 to \$9,999	9.4	11.8	11.5	13.5	11.1		9.7
\$10,000 to \$14,999	10.2	10.5	9.1	11.9	12.1		9.9
\$15,000 to \$19,999	10.2	10.8	10.3	10.9	11.7		9.1
\$20,000 to \$24,999	8.3	9.0	8.8	9.1	9.4		9.8
\$25,000 to \$34,999	15.4	14.7	15.3	14.7	13.6		8.0
\$35,000 to \$49,999	15.3	13.5	14.2	15.7	11.1		5.7
\$50,000 to \$74,999	16.2	15.5	15.6	12.2	17.3		7.0
\$75,000 or More	11.3	10.3	12.1	6.5	9.5		10.5
Below Poverty Line							
100 Percent	14.4	15.8	15.4	18.3	15.1		8.7
125 Percent	19.4	21.8	21.1	24.8	21.4		6.7
Eligible for Federal Assistance¹	33.6	34.5	34.1	35.7	34.6		5.3
Age of Householder							
Under 25 Years	5.6	5.8	6.2	4.1	6.1		11.4
25 to 34 Years	18.3	17.7	16.2	17.9	20.0		4.6
35 to 44 Years	22.8	22.4	23.2	21.1	21.7		5.0
45 to 59 Years	25.2	26.5	26.3	25.7	27.2		4.2
60 Years and Over	28.1	27.6	28.0	31.2	24.9		5.7
Race of Householder							
White	77.3	73.1	71.3	82.3	71.0		2.8
Black	12.5	21.0	23.9	16.2	18.6		10.4
Other ²	10.2	5.9	4.8	Q	10.3		16.1
Householder of Hispanic Descent							
Yes	9.3	7.6	6.3	2.0	13.1		18.7
No	90.7	92.4	93.7	98.0	86.9		1.6
Household Size							
1 Person	25.2	24.9	24.3	26.7	24.8		4.7
2 Persons	32.5	33.5	35.4	32.7	30.6		3.9
3 Persons	17.2	17.8	17.5	18.4	17.8		5.4
4 Persons	15.0	14.6	14.8	14.5	14.3		5.5
5 Persons	6.3	5.7	4.9	4.2	7.8		11.9
6 or More Persons	3.8	3.6	3.1	3.3	4.5		15.9
Household Owns or Has Regular Use of a Motor Vehicle							
No	12.7	11.4	11.9	12.4	9.8		7.3
Yes	87.3	88.6	88.1	87.6	90.2		1.0
1 Vehicle	33.0	34.0	35.5	29.3	34.1		4.4
2 Vehicles	37.5	38.0	36.6	40.3	39.2		4.3
3 Vehicles	11.8	12.3	12.0	13.6	11.8		7.1
4 or More Vehicles	4.9	4.4	4.0	4.3	5.1		14.8

¹ Below 150 percent of poverty line or 60 percent of median State income.

² Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC2-12b. Household Characteristics by West Census Region,
Percent of U.S. Households, 1997**

Household Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
Total	100.0	100.0	100.0	100.0	0.0
1997 Household Income Category					
Less than \$5,000	3.7	3.5	5.2	2.9	12.4
\$5,000 to \$9,999	9.4	8.8	7.6	9.3	10.9
\$10,000 to \$14,999	10.2	11.7	8.5	13.0	9.7
\$15,000 to \$19,999	10.2	13.4	14.4	13.0	8.4
\$20,000 to \$24,999	8.3	7.6	9.8	6.7	8.3
\$25,000 to \$34,999	15.4	15.1	16.8	14.4	7.2
\$35,000 to \$49,999	15.3	15.9	16.7	15.6	7.8
\$50,000 to \$74,999	16.2	11.6	10.7	12.0	9.7
\$75,000 or More	11.3	12.4	10.4	13.1	13.9
Below Poverty Line					
100 Percent	14.4	16.4	14.4	17.1	6.9
125 Percent	19.4	21.5	18.7	22.5	8.1
Eligible for Federal Assistance¹	33.6	37.1	31.3	39.4	6.2
Age of Householder					
Under 25 Years	5.6	6.7	7.9	6.2	12.3
25 to 34 Years	18.3	19.3	17.5	20.1	8.1
35 to 44 Years	22.8	23.6	23.9	23.5	5.1
45 to 59 Years	25.2	23.1	24.8	22.5	6.5
60 Years and Over	28.1	27.2	25.9	27.8	4.9
Race of Householder					
White	77.3	70.8	87.2	64.3	2.3
Black	12.5	5.1	2.6	6.1	14.5
Other ²	10.2	24.1	10.2	29.6	9.2
Householder of Hispanic Descent					
Yes	9.3	18.8	18.4	18.9	12.6
No	90.7	81.2	81.6	81.1	2.7
Household Size					
1 Person	25.2	24.1	21.8	25.1	6.0
2 Persons	32.5	31.0	34.2	29.7	5.1
3 Persons	17.2	17.8	14.9	19.0	5.6
4 Persons	15.0	14.5	18.2	13.1	5.5
5 Persons	6.3	7.3	7.5	7.2	10.3
6 or More Persons	3.8	5.3	3.4	6.0	17.9
Household Owns or Has Regular Use of a Motor Vehicle					
No	12.7	11.6	7.1	13.4	9.7
Yes	87.3	88.4	92.9	86.6	1.2
1 Vehicle	33.0	34.2	31.9	35.1	4.6
2 Vehicles	37.5	35.7	39.1	34.4	4.8
3 Vehicles	11.8	12.3	14.2	11.5	10.2
4 or More Vehicles	4.9	6.2	7.7	5.6	13.7

¹ Below 150 percent of poverty line or 60 percent of median State income.

² Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

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. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

1997 Housing Characteristics Tables

Home Office Equipment Tables

(Million U.S. Households; 12 pages, 47 kb)

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These data are from the 1997 Residential Energy Consumption Survey (RECS) which provides information on the use of energy in residential housing units in the United States. The RECS is a national statistical survey that collects data for occupied primary housing units. RECS was first conducted in 1978; the sixth and most recent survey was conducted in 1997 RECS. The data were collected from a sample of 5,900 housing units statistically selected to represent the 101.5 million units in the United States. The 1997 data are available for the four Census regions, the nine Census divisions, and for the four most populous States--California, Florida, New York, and Texas.

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Contact: Robert Latta, Survey Manager (rlatta@eia.doe.gov)

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

**Table HC7-1a. Home Office Equipment by Climate Zone,
Million U.S. Households, 1997**

Home Office Equipment	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.7	1.1	1.1	1.1	1.1	
Total	101.5	9.3	28.0	22.5	19.5	22.2	8.0
Households Using Office Equipment	80.5	7.8	23.3	17.7	14.8	16.9	8.1
Personal Computers	35.6	3.7	10.5	7.6	6.8	7.0	8.1
Number of PCs							
1	29.6	3.2	8.8	6.4	5.4	5.8	9.0
2 or more	5.9	0.5	1.7	1.2	1.4	1.2	13.4
Modem Connecting PC to Telephone Line	20.7	2.2	6.0	4.0	4.2	4.3	9.7
PC Uses a Laser Printer	12.6	1.2	3.6	2.9	2.3	2.7	11.5
Hours PCs Turned On Each Week							
Less than 2 hours	8.2	0.8	2.5	2.2	1.4	1.3	12.4
2 to 15 hours	17.4	1.9	4.9	3.3	3.5	3.8	9.8
16 to 40 hours	6.7	0.7	2.3	1.4	1.2	1.1	13.1
On All the time	3.3	0.4	0.8	0.7	0.7	0.8	17.3
How PC is Used							
15 hours a Week or Less	25.6	2.6	7.4	5.5	4.9	5.1	8.8
16 hours a Week or More	10.0	1.1	3.1	2.1	1.9	1.9	12.0
Personal Use Only	4.8	0.5	1.6	0.9	0.7	1.0	15.8
Business Use Only	2.1	0.2	0.7	0.5	0.5	0.2	21.0
Both Personal and Business	3.1	0.3	0.8	0.7	0.7	0.7	20.0
Business Use of PC							
Other Business Use	3.1	0.4	0.9	0.7	0.6	0.6	20.8
Used for Telecommuting	2.1	0.2	0.6	0.4	0.6	0.3	19.1
1 to 4 Days per Week	1.1	Q	0.4	Q	0.3	Q	23.0
5 to 7 Days per Week	1.0	Q	0.3	0.3	0.2	Q	29.8
Other Office Equipment							
Cordless Telephone	62.3	6.0	17.8	13.5	11.9	13.1	7.0
Facsimile Machine	6.3	0.6	1.5	1.5	1.8	1.0	13.9
Photocopier	3.8	0.3	1.0	0.9	0.7	0.8	14.8
Telephone Answering Machine	59.3	5.7	17.6	13.1	10.8	12.1	7.1

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

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.
 Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.
 • See "Glossary" for definition of terms used in this report.

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

**Table HC7-2a. Home Office Equipment by Year of Construction,
Million U.S. Households, 1997**

Home Office Equipment	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.4	1.6	1.1	1.0	1.1	1.3	0.9	
Total	101.5	9.7	17.3	19.6	14.4	12.5	27.9	4.1
Households Using Office Equipment	80.5	8.5	14.8	15.7	11.6	9.5	20.4	4.5
Personal Computers	35.6	4.9	7.3	7.2	4.8	3.5	7.9	6.3
Number of PCs								
1	29.6	4.0	5.9	6.0	4.1	2.9	6.6	6.9
2 or more	5.9	0.9	1.4	1.2	0.6	0.5	1.3	14.4
Modem Connecting PC to Telephone Line	20.7	3.0	4.8	4.1	2.9	1.9	4.0	8.0
PC Uses a Laser Printer	12.6	2.3	3.2	2.2	1.4	1.0	2.5	9.7
Hours PCs Turned On Each Week								
Less than 2 hours	8.2	0.9	1.2	1.8	1.3	0.8	2.3	11.6
2 to 15 hours	17.4	2.6	3.9	3.6	2.1	1.8	3.3	8.4
16 to 40 hours	6.7	0.9	1.4	1.2	0.9	0.6	1.7	13.0
On All the time	3.3	0.5	0.8	0.7	0.5	0.3	0.5	18.3
How PC is Used								
15 hours a Week or Less	25.6	3.5	5.1	5.3	3.4	2.6	5.7	7.2
16 hours a Week or More	10.0	1.4	2.2	1.9	1.4	0.9	2.2	11.1
Personal Use Only	4.8	0.6	0.9	1.0	0.7	0.4	1.1	14.9
Business Use Only	2.1	0.5	0.4	0.3	0.3	0.2	0.4	24.0
Both Personal and Business	3.1	0.3	0.9	0.7	0.4	0.2	0.7	19.9
Business Use of PC								
Other Business Use	3.1	0.5	0.7	0.5	0.4	0.3	0.7	20.6
Used for Telecommuting	2.1	0.3	0.5	0.4	0.3	Q	0.4	21.9
1 to 4 Days per Week	1.1	Q	0.2	0.2	Q	Q	0.2	29.0
5 to 7 Days per Week	1.0	Q	0.3	Q	Q	Q	0.2	31.1
Other Office Equipment								
Cordless Telephone	62.3	6.9	11.9	11.9	8.6	7.4	15.7	4.5
Facsimile Machine	6.3	1.4	1.5	1.2	0.7	0.5	1.1	15.6
Photocopier	3.8	0.7	0.8	0.6	0.5	0.3	0.8	16.5
Telephone Answering Machine	59.3	6.5	11.3	12.1	8.6	6.6	14.2	4.9

¹ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

Table HC7-3a. Home Office Equipment by Household Income, Million U.S. Households, 1997

Home Office Equipment	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.4	2.0	1.2	0.7	0.6	1.7	1.2	
Total	101.5	13.3	29.1	31.1	27.9	14.6	34.1	2.6
Households Using Office Equipment	80.5	6.5	20.8	26.7	26.6	7.8	21.0	3.1
Personal Computers	35.6	1.3	4.8	11.5	18.0	1.9	5.4	5.6
Number of PCs								
1	29.6	1.1	4.2	10.2	14.1	1.5	4.7	6.1
2 or more	5.9	Q	0.6	1.3	3.9	0.4	0.7	16.5
Modem Connecting PC to Telephone Line	20.7	0.7	2.5	6.1	11.4	0.9	2.6	8.6
PC Uses a Laser Printer	12.6	0.3	1.3	4.0	7.0	0.5	1.5	10.2
Hours PCs Turned On Each Week								
Less than 2 hours	8.2	0.4	1.2	3.1	3.5	0.5	1.4	10.8
2 to 15 hours	17.4	0.5	2.3	5.7	8.9	0.8	2.3	8.4
16 to 40 hours	6.7	0.4	0.9	1.8	3.5	0.5	1.4	12.9
On All the time	3.3	Q	0.3	0.9	2.1	0.1	0.3	19.5
How PC is Used								
15 hours a Week or Less	25.6	0.8	3.6	8.8	12.4	1.3	3.7	6.7
16 hours a Week or More	10.0	0.5	1.2	2.7	5.6	0.6	1.7	11.5
Personal Use Only	4.8	0.3	0.7	1.3	2.5	0.4	1.0	15.0
Business Use Only	2.1	Q	Q	0.4	1.4	Q	0.3	25.2
Both Personal and Business	3.1	Q	0.4	1.0	1.7	Q	0.5	20.7
Business Use of PC								
Other Business Use	3.1	Q	0.3	0.8	1.8	Q	0.5	22.5
Used for Telecommuting	2.1	Q	0.2	0.6	1.2	Q	0.2	23.5
1 to 4 Days per Week	1.1	Q	Q	0.2	0.8	Q	Q	28.9
5 to 7 Days per Week	1.0	Q	Q	0.4	0.5	Q	Q	34.7
Other Office Equipment								
Cordless Telephone	62.3	4.7	15.0	20.8	21.7	5.8	15.5	3.3
Facsimile Machine	6.3	Q	0.7	1.7	3.7	Q	0.7	16.1
Photocopier	3.8	Q	0.4	1.2	2.0	Q	0.5	18.0
Telephone Answering Machine	59.3	4.0	14.3	19.4	21.6	4.7	13.3	3.8

¹ Below 150 percent of poverty line or 60 percent of median State income.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC7-4a. Home Office Equipment by Type of Housing Unit,
Million U.S. Households, 1997**

Home Office Equipment	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.5	2.0	1.3	2.2	
Total	101.5	73.7	5.6	15.8	6.3	3.8
Households Using Office Equipment	80.5	61.3	3.8	11.0	4.5	4.2
Personal Computers	35.6	29.2	1.2	4.2	1.0	6.2
Number of PCs						
1	29.6	24.1	1.0	3.7	0.9	6.9
2 or more	5.9	5.2	0.2	0.5	Q	16.2
Modem Connecting PC to Telephone Line	20.7	16.6	0.7	2.9	0.5	8.2
PC Uses a Laser Printer	12.6	10.7	0.5	1.2	0.3	11.6
Hours PCs Turned On Each Week						
Less than 2 hours	8.2	7.0	0.2	0.8	0.2	13.7
2 to 15 hours	17.4	14.4	0.6	1.9	0.5	9.0
16 to 40 hours	6.7	5.3	0.3	0.9	0.2	13.9
On All the time	3.3	2.6	Q	0.6	Q	19.3
How PC is Used						
15 hours a Week or Less	25.6	21.4	0.8	2.7	0.7	7.4
16 hours a Week or More	10.0	7.9	0.4	1.5	0.3	12.1
Personal Use Only	4.8	3.7	0.3	0.6	0.2	15.3
Business Use Only	2.1	1.7	Q	0.3	Q	25.6
Both Personal and Business	3.1	2.4	Q	0.6	Q	22.1
Business Use of PC						
Other Business Use	3.1	2.6	Q	0.4	Q	24.4
Used for Telecommuting	2.1	1.6	Q	0.5	Q	22.8
1 to 4 Days per Week	1.1	0.8	Q	0.2	Q	31.6
5 to 7 Days per Week	1.0	0.7	Q	0.3	Q	34.9
Other Office Equipment						
Cordless Telephone	62.3	48.6	2.9	7.5	3.3	4.2
Facsimile Machine	6.3	5.3	Q	0.8	0.2	17.6
Photocopier	3.8	3.4	Q	0.2	0.1	19.9
Telephone Answering Machine	59.3	45.8	2.8	7.9	2.8	4.6

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

Table HC7-5a. Home Office Equipment by Type of Owner-Occupied Housing Unit, Million U.S. Households, 1997

Home Office Equipment	Total Owner-Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.3	0.3	3.0	2.9	1.5	
Total	68.5	61.1	0.9	1.2	5.3	6.2
Households Using Office Equipment	57.1	51.9	0.7	0.7	3.8	6.6
Personal Computers	26.6	25.4	Q	0.2	0.8	10.0
Number of PCs						
1	21.9	20.7	Q	0.2	0.8	11.1
2 or more	4.7	4.6	Q	Q	Q	26.3
Modem Connecting PC to Telephone Line	15.1	14.5	Q	Q	0.4	13.4
PC Uses a Laser Printer	10.2	9.7	Q	Q	0.3	19.5
Hours PCs Turned On Each Week						
Less than 2 hours	6.5	6.2	Q	Q	0.2	21.6
2 to 15 hours	12.9	12.3	Q	Q	0.4	15.0
16 to 40 hours	4.9	4.6	Q	Q	0.2	21.8
On All the time	2.3	2.2	Q	Q	Q	36.8
How PC is Used						
15 hours a Week or Less	19.4	18.5	Q	Q	0.6	12.2
16 hours a Week or More	7.2	6.8	Q	Q	0.3	19.9
Personal Use Only	3.4	3.2	Q	Q	0.2	27.0
Business Use Only	1.6	1.6	Q	Q	Q	43.2
Both Personal and Business	2.1	2.1	Q	Q	Q	33.8
Business Use of PC						
Other Business Use	2.4	2.3	Q	Q	Q	35.3
Used for Telecommuting	1.4	1.3	Q	Q	Q	40.5
1 to 4 Days per Week	0.7	0.7	Q	Q	Q	54.4
5 to 7 Days per Week	0.6	0.6	Q	Q	Q	70.2
Other Office Equipment						
Cordless Telephone	45.7	42.1	0.6	0.3	2.7	7.2
Facsimile Machine	4.9	4.7	Q	Q	Q	30.7
Photocopier	3.4	3.1	Q	Q	0.1	28.8
Telephone Answering Machine	42.5	39.1	0.4	0.6	2.3	8.0

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC7-6a. Home Office Equipment by Type of Rented Housing Unit,
Million U.S. Households, 1997**

Home Office Equipment	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.8	1.3	0.8	2.5	
Total	33.0	12.6	4.7	14.6	1.1	6.3
Households Using Office Equipment	23.4	9.3	3.1	10.2	0.7	7.4
Personal Computers	9.0	3.9	1.0	3.9	0.1	10.6
Number of PCs						
1	7.7	3.3	0.8	3.4	0.1	11.3
2 or more	1.3	0.5	0.2	0.5	Q	26.0
Modem Connecting PC to Telephone Line	5.6	2.1	0.6	2.8	Q	13.6
PC Uses a Laser Printer	2.5	1.1	0.3	1.1	Q	18.8
Hours PCs Turned On Each Week						
Less than 2 hours	1.7	0.8	0.2	0.7	Q	23.3
2 to 15 hours	4.5	2.1	0.5	1.8	Q	14.7
16 to 40 hours	1.8	0.7	0.3	0.8	Q	23.5
On All the time	1.0	0.4	Q	0.6	Q	29.9
How PC is Used						
15 hours a Week or Less	6.2	2.8	0.7	2.5	0.1	12.2
16 hours a Week or More	2.8	1.0	0.3	1.4	Q	18.6
Personal Use Only	1.3	0.5	0.3	0.5	Q	25.9
Business Use Only	0.5	Q	Q	0.3	Q	36.9
Both Personal and Business	1.0	0.4	Q	0.5	Q	35.2
Business Use of PC						
Other Business Use	0.7	0.3	Q	0.4	Q	40.0
Used for Telecommuting	0.7	0.2	Q	0.5	Q	34.8
1 to 4 Days per Week	0.3	Q	Q	0.2	Q	48.3
5 to 7 Days per Week	0.4	Q	Q	0.2	Q	50.9
Other Office Equipment						
Cordless Telephone	16.5	6.5	2.3	7.2	0.5	8.1
Facsimile Machine	1.5	0.6	Q	0.7	Q	24.5
Photocopier	0.4	0.3	Q	Q	Q	42.3
Telephone Answering Machine	16.8	6.7	2.4	7.3	0.5	8.0

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC7-7a. Home Office Equipment by Four Most Populated States,
Million U.S. Households, 1997**

Home Office Equipment	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.1	1.1	1.5	1.3	
Total	101.5	6.8	11.5	7.0	5.9	NF
Households Using Office Equipment	80.5	5.4	8.9	5.2	4.7	1.9
Personal Computers	35.6	2.2	4.6	2.6	2.0	5.9
Number of PCs						
1	29.6	1.8	3.6	2.2	1.6	7.9
2 or more	5.9	0.3	1.0	0.4	0.4	16.6
Modem Connecting PC to Telephone Line	20.7	1.2	2.9	1.4	1.4	7.9
PC Uses a Laser Printer	12.6	0.9	1.5	1.1	0.6	11.8
Hours PCs Turned On Each Week						
Less than 2 hours	8.2	0.5	0.8	0.5	0.3	17.3
2 to 15 hours	17.4	1.1	2.3	1.3	1.0	10.8
16 to 40 hours	6.7	0.5	1.0	0.4	0.4	14.3
On All the time	3.3	0.2	0.5	0.3	0.3	17.5
How PC is Used						
15 hours a Week or Less	25.6	1.5	3.1	1.8	1.3	8.1
16 hours a Week or More	10.0	0.6	1.5	0.8	0.6	14.2
Personal Use Only	4.8	0.2	0.6	0.5	0.3	16.2
Business Use Only	2.1	0.1	0.4	0.1	Q	27.1
Both Personal and Business	3.1	0.3	0.5	0.2	0.3	24.8
Business Use of PC						
Other Business Use	3.1	0.2	0.4	Q	0.3	28.2
Used for Telecommuting	2.1	0.2	0.5	0.2	Q	22.3
1 to 4 Days per Week	1.1	0.1	0.3	Q	Q	27.4
5 to 7 Days per Week	1.0	Q	0.2	Q	Q	28.7
Other Office Equipment						
Cordless Telephone	62.3	4.1	6.8	4.2	3.8	2.9
Facsimile Machine	6.3	0.5	1.2	0.3	0.3	13.6
Photocopier	3.8	0.3	0.5	0.3	0.2	17.0
Telephone Answering Machine	59.3	4.1	6.8	3.8	3.5	4.2

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC7-8a. Home Office Equipment by Urban/Rural Location,
Million U.S. Households, 1997**

Home Office Equipment	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
		0.8	1.5	1.2	1.4	
RSE Column Factor:	0.5	0.8	1.5	1.2	1.4	
Total	101.5	48.2	18.2	18.6	16.5	4.0
Households Using Office Equipment	80.5	36.6	14.0	16.6	13.3	4.4
Personal Computers	35.6	15.9	5.6	8.9	5.2	5.4
Number of PCs						
1	29.6	13.1	4.7	7.5	4.4	6.0
2 or more	5.9	2.7	1.0	1.4	0.8	11.5
Modem Connecting PC to Telephone Line	20.7	9.5	3.0	5.5	2.6	7.0
PC Uses a Laser Printer	12.6	5.1	2.1	3.3	2.1	9.3
Hours PCs Turned On Each Week						
Less than 2 hours	8.2	3.6	1.4	1.7	1.4	10.0
2 to 15 hours	17.4	7.7	2.7	4.7	2.2	7.0
16 to 40 hours	6.7	3.0	1.0	1.6	1.0	10.7
On All the time	3.3	1.5	0.5	0.9	0.5	15.2
How PC is Used						
15 hours a Week or Less	25.6	11.4	4.1	6.4	3.6	6.1
16 hours a Week or More	10.0	4.5	1.5	2.5	1.5	9.2
Personal Use Only	4.8	2.2	0.7	1.2	0.7	12.7
Business Use Only	2.1	0.8	0.4	0.6	0.3	19.2
Both Personal and Business	3.1	1.4	0.4	0.7	0.5	16.8
Business Use of PC						
Other Business Use	3.1	1.2	0.6	0.8	0.5	15.8
Used for Telecommuting	2.1	1.1	0.2	0.5	0.3	20.2
1 to 4 Days per Week	1.1	0.5	0.1	0.3	0.2	25.4
5 to 7 Days per Week	1.0	0.5	0.1	0.3	Q	29.9
Other Office Equipment						
Cordless Telephone	62.3	28.0	10.5	13.3	10.5	4.1
Facsimile Machine	6.3	2.6	1.0	1.7	1.0	12.8
Photocopier	3.8	1.4	0.7	0.9	0.8	13.5
Telephone Answering Machine	59.3	26.8	10.5	12.4	9.6	4.2

¹ Based on the household respondent's description rather than the Federal Government definition.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC7-9a. Home Office Equipment by Northeast Census Region,
Million U.S. Households, 1997**

Home Office Equipment	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.1	1.4	1.3	
Total	101.5	19.7	14.4	5.3	NF
Households Using Office Equipment	80.5	15.6	11.4	4.2	1.4
Personal Computers	35.6	6.3	4.4	1.9	5.2
Number of PCs					
1	29.6	5.4	3.8	1.5	5.6
2 or more	5.9	0.9	0.6	0.3	11.6
Modem Connecting PC to Telephone Line	20.7	3.5	2.4	1.1	8.2
PC Uses a Laser Printer	12.6	2.2	1.7	0.5	8.8
Hours PCs Turned On Each Week					
Less than 2 hours	8.2	1.5	1.0	0.5	11.5
2 to 15 hours	17.4	2.8	1.9	0.8	5.4
16 to 40 hours	6.7	1.6	1.2	0.4	12.3
On All the time	3.3	0.5	0.3	0.2	19.7
How PC is Used					
15 hours a Week or Less	25.6	4.2	3.0	1.3	6.3
16 hours a Week or More	10.0	2.1	1.5	0.6	11.2
Personal Use Only	4.8	0.9	0.6	0.3	16.0
Business Use Only	2.1	0.5	0.3	0.1	20.6
Both Personal and Business	3.1	0.7	0.5	0.2	14.4
Business Use of PC					
Other Business Use	3.1	0.7	0.6	0.2	14.6
Used for Telecommuting	2.1	0.5	0.3	0.1	19.2
1 to 4 Days per Week	1.1	0.2	Q	Q	25.0
5 to 7 Days per Week	1.0	0.2	Q	Q	31.2
Other Office Equipment					
Cordless Telephone	62.3	11.8	8.6	3.2	2.0
Facsimile Machine	6.3	1.3	1.0	0.3	15.5
Photocopier	3.8	0.8	0.6	0.2	19.0
Telephone Answering Machine	59.3	12.3	8.9	3.4	2.7

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC7-10a. Home Office Equipment by Midwest Census Region,
Million U.S. Households, 1997**

Home Office Equipment	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.1	1.8	
Total	101.5	24.1	16.9	7.2	NF
Households Using Office Equipment	80.5	19.8	14.0	5.9	1.4
Personal Computers	35.6	9.1	6.4	2.7	4.0
Number of PCs					
1	29.6	7.8	5.4	2.4	4.4
2 or more	5.9	1.3	1.0	0.3	12.4
Modem Connecting PC to Telephone Line	20.7	5.2	3.6	1.6	6.9
PC Uses a Laser Printer	12.6	3.1	2.2	0.9	10.0
Hours PCs Turned On Each Week					
Less than 2 hours	8.2	2.3	1.7	0.6	9.3
2 to 15 hours	17.4	4.3	2.8	1.6	7.1
16 to 40 hours	6.7	1.8	1.5	0.3	10.1
On All the time	3.3	0.7	0.4	0.2	16.4
How PC is Used					
15 hours a Week or Less	25.6	6.7	4.5	2.2	4.8
16 hours a Week or More	10.0	2.5	1.9	0.5	9.3
Personal Use Only	4.8	1.2	1.0	0.3	13.1
Business Use Only	2.1	0.6	0.5	Q	22.0
Both Personal and Business	3.1	0.6	0.5	0.2	21.9
Business Use of PC					
Other Business Use	3.1	0.8	0.6	0.2	22.6
Used for Telecommuting	2.1	0.4	0.3	Q	22.1
1 to 4 Days per Week	1.1	Q	Q	Q	25.5
5 to 7 Days per Week	1.0	0.2	Q	Q	33.8
Other Office Equipment					
Cordless Telephone	62.3	15.3	10.8	4.5	2.2
Facsimile Machine	6.3	1.3	0.9	0.4	19.3
Photocopier	3.8	0.9	0.7	0.2	18.1
Telephone Answering Machine	59.3	14.7	10.5	4.2	2.5

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC7-11a. Home Office Equipment by South Census Region,
Million U.S. Households, 1997**

Home Office Equipment	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.4	0.8	1.0	1.6	1.6	
Total	101.5	35.9	18.7	6.3	10.8	NF
Households Using Office Equipment	80.5	27.5	14.7	4.8	8.1	1.9
Personal Computers	35.6	11.1	6.0	1.6	3.5	5.5
Number of PCs						
1	29.6	9.3	5.0	1.5	2.9	6.8
2 or more	5.9	1.8	1.1	0.1	0.6	13.7
Modem Connecting PC to Telephone Line	20.7	6.5	3.7	0.9	1.9	7.3
PC Uses a Laser Printer	12.6	4.2	2.1	0.5	1.5	10.9
Hours PCs Turned On Each Week						
Less than 2 hours	8.2	2.6	1.4	0.4	0.8	10.6
2 to 15 hours	17.4	5.7	3.0	0.9	1.8	7.4
16 to 40 hours	6.7	1.6	1.0	0.1	0.5	12.1
On All the time	3.3	1.3	0.7	0.1	0.4	18.8
How PC is Used						
15 hours a Week or Less	25.6	8.3	4.4	1.3	2.6	5.8
16 hours a Week or More	10.0	2.9	1.7	0.3	0.9	12.1
Personal Use Only	4.8	1.5	0.8	0.1	0.5	15.7
Business Use Only	2.1	0.4	0.3	Q	Q	25.4
Both Personal and Business	3.1	1.0	0.6	Q	0.3	22.0
Business Use of PC						
Other Business Use	3.1	0.9	0.7	Q	Q	21.9
Used for Telecommuting	2.1	0.4	0.2	Q	Q	26.2
1 to 4 Days per Week	1.1	0.2	Q	Q	Q	30.7
5 to 7 Days per Week	1.0	0.2	Q	Q	Q	41.1
Other Office Equipment						
Cordless Telephone	62.3	22.0	11.8	3.9	6.3	2.6
Facsimile Machine	6.3	2.0	1.4	0.2	0.5	13.1
Photocopier	3.8	1.3	0.7	0.2	0.4	14.0
Telephone Answering Machine	59.3	19.4	10.4	3.4	5.7	3.4

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC7-12a. Home Office Equipment by West Census Region,
Million U.S. Households, 1997**

Home Office Equipment	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.8	1.1	
Total	101.5	21.8	6.2	15.6	NF
Households Using Office Equipment	80.5	17.5	5.1	12.5	1.6
Personal Computers	35.6	9.0	2.5	6.6	5.4
Number of PCs					
1	29.6	7.2	2.0	5.2	6.2
2 or more	5.9	1.8	0.5	1.4	13.4
Modem Connecting PC to Telephone Line	20.7	5.4	1.3	4.1	8.4
PC Uses a Laser Printer	12.6	3.1	0.8	2.3	7.9
Hours PCs Turned On Each Week					
Less than 2 hours	8.2	1.8	0.5	1.3	7.1
2 to 15 hours	17.4	4.6	1.4	3.2	7.0
16 to 40 hours	6.7	1.7	0.4	1.3	12.0
On All the time	3.3	0.9	0.1	0.7	15.5
How PC is Used					
15 hours a Week or Less	25.6	6.4	1.9	4.5	5.4
16 hours a Week or More	10.0	2.6	0.6	2.1	10.5
Personal Use Only	4.8	1.2	0.3	0.9	13.6
Business Use Only	2.1	0.7	0.2	0.5	21.7
Both Personal and Business	3.1	0.8	Q	0.7	17.0
Business Use of PC					
Other Business Use	3.1	0.7	0.1	0.5	19.2
Used for Telecommuting	2.1	0.8	Q	0.7	14.8
1 to 4 Days per Week	1.1	0.4	Q	0.4	19.6
5 to 7 Days per Week	1.0	0.3	Q	0.3	23.3
Other Office Equipment					
Cordless Telephone	62.3	13.1	3.8	9.3	2.6
Facsimile Machine	6.3	1.8	0.3	1.5	13.4
Photocopier	3.8	0.9	0.3	0.6	16.8
Telephone Answering Machine	59.3	12.9	3.5	9.4	3.6

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

1997 Housing Characteristics Tables

Home Office Equipment Tables

(Percent of U.S. Households; 13 pages, 48 kb)

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These data are from the 1997 Residential Energy Consumption Survey (RECS) which provides information on the use of energy in residential housing units in the United States. The RECS is a national statistical survey that collects energy-related data for occupied primary housing units. RECS was first conducted in 1978; the seventh and most recent survey was conducted in 1997. The data were collected from a sample of 5,900 housing units statistically selected to represent the 101.5 million housing units in the United States. The 1997 data are available for the four Census regions, the nine Census divisions, and for the four most populous States--California, Florida, New York, and Texas.

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

**Table HC7-1b. Home Office Equipment by Climate Zone,
Percent of U.S. Households, 1997**

Home Office Equipment	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				More than 2,000 CDD and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.4	0.9	1.1	1.2	1.2	
Total	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Households Using Office Equipment	79.3	84.2	83.0	78.6	76.0	76.4	1.6
Personal Computers	35.1	40.2	37.3	33.9	34.9	31.4	5.2
Number of PCs							
1	29.2	34.8	31.2	28.6	27.7	26.1	5.9
2 or more	5.9	5.4	6.1	5.2	7.1	5.3	12.1
Modem Connecting PC to Telephone Line	20.4	24.0	21.5	17.7	21.3	19.4	7.8
PC Uses a Laser Printer	12.5	13.0	12.7	12.7	11.9	12.0	9.9
Hours PCs Turned On Each Week							
Less than 2 hours	8.1	8.5	8.9	9.7	7.4	5.7	9.5
2 to 15 hours	17.1	20.0	17.5	14.9	17.8	17.2	7.5
16 to 40 hours	6.6	7.7	8.2	6.3	6.1	4.8	11.4
On All the time	3.3	4.0	2.7	3.0	3.6	3.7	16.6
How PC is Used							
15 hours a Week or Less	25.2	28.5	26.4	24.6	25.2	22.9	5.8
16 hours a Week or More	9.9	11.7	10.9	9.3	9.7	8.5	10.3
Personal Use Only	4.7	5.6	5.6	4.1	3.8	4.6	13.9
Business Use Only	2.1	2.4	2.5	2.3	2.5	0.9	21.5
Both Personal and Business	3.1	3.7	2.8	2.9	3.4	3.0	18.9
Business Use of PC							
Other Business Use	3.1	4.1	3.0	3.3	2.9	2.7	19.9
Used for Telecommuting	2.1	2.0	2.2	1.9	3.0	1.2	19.2
1 to 4 Days per Week	1.1	Q	1.4	Q	1.7	Q	22.5
5 to 7 Days per Week	1.0	Q	0.9	1.2	1.2	Q	30.3
Other Office Equipment							
Cordless Telephone	61.4	64.3	63.5	60.0	61.0	59.2	2.4
Facsimile Machine	6.2	6.0	5.3	6.7	9.2	4.5	13.9
Photocopier	3.7	3.7	3.6	4.2	3.7	3.5	15.3
Telephone Answering Machine	58.4	61.4	62.7	58.4	55.2	54.6	3.0

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

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC7-2b. Home Office Equipment by Year of Construction,
Percent of U.S. Households, 1997**

Home Office Equipment	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.4	1.0	1.0	1.2	1.4	1.0	
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Households Using Office Equipment	79.3	87.5	85.7	80.3	80.6	75.4	73.1	1.6
Personal Computers	35.1	50.4	42.3	37.0	33.0	27.6	28.3	4.9
Number of PCs								
1	29.2	40.9	34.3	30.7	28.7	23.3	23.8	5.5
2 or more	5.9	9.5	7.9	6.3	4.3	4.3	4.5	13.9
Modem Connecting PC to Telephone Line	20.4	31.4	28.0	20.8	19.8	15.3	14.2	6.8
PC Uses a Laser Printer	12.5	23.6	18.5	11.3	9.7	7.9	9.0	8.8
Hours PCs Turned On Each Week								
Less than 2 hours	8.1	9.1	6.8	9.0	8.7	6.0	8.4	11.1
2 to 15 hours	17.1	26.7	22.7	18.3	14.6	14.6	12.0	7.3
16 to 40 hours	6.6	9.6	7.9	6.2	6.5	4.4	5.9	12.1
On All the time	3.3	4.9	4.9	3.5	3.2	2.6	1.9	17.9
How PC is Used								
15 hours a Week or Less	25.2	35.8	29.4	27.3	23.3	20.6	20.4	6.0
16 hours a Week or More	9.9	14.6	12.8	9.7	9.7	7.0	7.9	10.1
Personal Use Only	4.7	6.5	5.5	5.1	4.9	3.5	3.8	14.5
Business Use Only	2.1	5.0	2.3	1.3	2.2	1.6	1.6	23.5
Both Personal and Business	3.1	3.0	5.0	3.3	2.6	1.9	2.5	19.4
Business Use of PC								
Other Business Use	3.1	5.1	4.3	2.6	2.5	2.6	2.5	19.9
Used for Telecommuting	2.1	2.9	3.0	2.0	2.3	Q	1.6	21.8
1 to 4 Days per Week	1.1	Q	1.3	1.1	Q	Q	0.9	28.7
5 to 7 Days per Week	1.0	Q	1.7	Q	Q	Q	0.7	29.9
Other Office Equipment								
Cordless Telephone	61.4	70.7	68.8	60.6	59.2	58.9	56.3	2.4
Facsimile Machine	6.2	14.6	8.5	6.0	4.8	4.0	3.9	15.0
Photocopier	3.7	7.7	4.6	3.3	3.3	2.5	3.0	16.0
Telephone Answering Machine	58.4	66.6	65.4	61.6	59.4	52.8	51.0	2.8

¹ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

Table HC7-3b. Home Office Equipment by Household Income, Percent of U.S. Households, 1997

Home Office Equipment	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.4	2.3	1.2	0.7	0.5	1.9	1.2	
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Households Using Office Equipment	79.3	48.6	71.3	85.6	95.4	53.2	61.7	1.5
Personal Computers	35.1	9.7	16.5	36.9	64.5	13.1	15.8	4.9
Number of PCs								
1	29.2	8.0	14.5	32.8	50.7	10.5	13.9	5.6
2 or more	5.9	Q	2.0	4.1	13.8	2.6	2.0	16.3
Modem Connecting PC to Telephone Line	20.4	5.2	8.6	19.8	40.7	5.9	7.7	8.2
PC Uses a Laser Printer	12.5	2.5	4.5	12.8	25.1	3.7	4.5	9.9
Hours PCs Turned On Each Week								
Less than 2 hours	8.1	2.8	4.2	9.8	12.5	3.7	4.0	10.5
2 to 15 hours	17.1	3.4	8.0	18.3	31.9	5.3	6.9	8.1
16 to 40 hours	6.6	3.2	3.1	5.8	12.6	3.1	4.1	12.5
On All the time	3.3	Q	1.1	3.0	7.4	1.0	0.9	19.7
How PC is Used								
15 hours a Week or Less	25.2	6.3	12.2	28.2	44.4	9.0	10.8	6.2
16 hours a Week or More	9.9	3.4	4.2	8.7	20.0	4.1	5.0	11.0
Personal Use Only	4.7	2.3	2.3	4.1	9.1	2.9	2.9	14.9
Business Use Only	2.1	Q	Q	1.4	5.0	Q	0.7	26.3
Both Personal and Business	3.1	Q	1.2	3.3	6.0	Q	1.3	20.9
Business Use of PC								
Other Business Use	3.1	Q	1.1	2.7	6.5	Q	1.4	22.9
Used for Telecommuting	2.1	Q	0.8	2.0	4.4	Q	0.7	24.2
1 to 4 Days per Week	1.1	Q	Q	0.7	2.8	Q	Q	30.4
5 to 7 Days per Week	1.0	Q	Q	1.3	1.6	Q	Q	37.0
Other Office Equipment								
Cordless Telephone	61.4	35.3	51.5	66.9	77.9	39.5	45.6	2.4
Facsimile Machine	6.2	Q	2.5	5.3	13.3	Q	2.1	16.6
Photocopier	3.7	Q	1.5	3.9	7.3	Q	1.4	18.7
Telephone Answering Machine	58.4	30.2	49.1	62.3	77.2	32.3	39.0	2.7

¹ Below 150 percent of poverty line or 60 percent of median State income.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC7-4b. Home Office Equipment by Type of Housing Unit,
Percent of U.S. Households, 1997**

Home Office Equipment	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.5	2.0	1.2	2.1	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Households Using Office Equipment	79.3	83.1	67.9	69.5	70.5	1.9
Personal Computers	35.1	39.6	21.5	26.4	15.5	5.6
Number of PCs						
1	29.2	32.6	17.5	23.1	14.7	6.3
2 or more	5.9	7.0	4.0	3.3	Q	16.2
Modem Connecting PC to Telephone Line	20.4	22.5	12.3	18.2	8.2	7.8
PC Uses a Laser Printer	12.5	14.6	8.0	7.3	4.8	11.3
Hours PCs Turned On Each Week						
Less than 2 hours	8.1	9.5	3.6	4.8	3.8	13.7
2 to 15 hours	17.1	19.5	11.1	12.2	7.3	8.3
16 to 40 hours	6.6	7.2	5.4	5.5	2.9	13.7
On All the time	3.3	3.5	Q	3.9	Q	19.2
How PC is Used						
15 hours a Week or Less	25.2	29.0	14.7	17.0	11.1	6.7
16 hours a Week or More	9.9	10.7	6.8	9.4	4.4	12.0
Personal Use Only	4.7	5.0	5.2	3.7	3.3	15.5
Business Use Only	2.1	2.3	Q	2.1	Q	25.0
Both Personal and Business	3.1	3.3	Q	3.7	Q	21.5
Business Use of PC						
Other Business Use	3.1	3.5	Q	2.7	Q	23.7
Used for Telecommuting	2.1	2.1	Q	3.1	Q	22.4
1 to 4 Days per Week	1.1	1.1	Q	1.4	Q	31.1
5 to 7 Days per Week	1.0	1.0	Q	1.6	Q	34.3
Other Office Equipment						
Cordless Telephone	61.4	65.9	51.9	47.4	51.5	2.8
Facsimile Machine	6.2	7.1	Q	5.1	2.5	17.3
Photocopier	3.7	4.6	Q	1.0	2.4	19.9
Telephone Answering Machine	58.4	62.1	49.1	50.2	44.6	3.2

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

Table HC7-5b. Home Office Equipment by Type of Owner-Occupied Housing Unit, Percent of U.S. Households, 1997

Home Office Equipment	Total Owner-Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.3	0.3	2.7	2.9	1.5	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Households Using Office Equipment	83.5	84.9	76.5	63.2	71.8	2.9
Personal Computers	38.8	41.5	Q	20.5	15.9	8.4
Number of PCs						
1	32.0	33.9	Q	20.5	14.9	9.4
2 or more	6.8	7.5	Q	Q	Q	24.8
Modem Connecting PC to Telephone Line	22.1	23.8	Q	Q	7.8	12.0
PC Uses a Laser Printer	14.8	15.8	Q	Q	4.9	17.5
Hours PCs Turned On Each Week						
Less than 2 hours	9.4	10.1	Q	Q	4.2	20.4
2 to 15 hours	18.9	20.2	Q	Q	6.7	13.5
16 to 40 hours	7.1	7.6	Q	Q	3.3	20.4
On All the time	3.4	3.6	Q	Q	Q	33.7
How PC is Used						
15 hours a Week or Less	28.3	30.3	Q	Q	10.8	10.8
16 hours a Week or More	10.6	11.2	Q	Q	5.1	18.2
Personal Use Only	5.0	5.2	Q	Q	3.9	24.8
Business Use Only	2.4	2.6	Q	Q	Q	40.4
Both Personal and Business	3.1	3.4	Q	Q	Q	31.9
Business Use of PC						
Other Business Use	3.5	3.8	Q	Q	Q	32.9
Used for Telecommuting	2.0	2.2	Q	Q	Q	38.4
1 to 4 Days per Week	1.1	1.2	Q	Q	Q	51.1
5 to 7 Days per Week	0.9	1.0	Q	Q	Q	66.4
Other Office Equipment						
Cordless Telephone	66.8	68.9	65.1	29.2	51.6	4.5
Facsimile Machine	7.1	7.6	Q	Q	Q	28.9
Photocopier	4.9	5.1	Q	Q	2.8	27.4
Telephone Answering Machine	62.0	64.0	43.4	52.6	44.7	4.7

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC7-6b. Home Office Equipment by Type of Rented Housing Unit,
Percent of U.S. Households, 1997**

Home Office Equipment	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.7	1.3	0.8	2.9	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Households Using Office Equipment	70.8	74.1	66.2	69.9	64.1	3.6
Personal Computers	27.2	30.6	22.3	26.9	13.3	9.4
Number of PCs						
1	23.3	26.3	17.4	23.3	13.3	10.4
2 or more	3.9	4.3	4.8	3.5	Q	26.2
Modem Connecting PC to Telephone Line	16.8	16.5	13.0	18.8	Q	13.4
PC Uses a Laser Printer	7.5	8.4	6.5	7.2	Q	18.9
Hours PCs Turned On Each Week						
Less than 2 hours	5.2	6.1	4.2	5.0	Q	23.6
2 to 15 hours	13.6	16.4	10.8	12.3	Q	13.9
16 to 40 hours	5.4	5.3	6.2	5.5	Q	24.3
On All the time	3.1	2.9	Q	4.1	Q	31.3
How PC is Used						
15 hours a Week or Less	18.8	22.4	15.0	17.3	12.5	11.1
16 hours a Week or More	8.4	8.2	7.2	9.6	Q	19.2
Personal Use Only	4.0	4.1	5.9	3.6	Q	28.2
Business Use Only	1.5	Q	Q	2.3	Q	37.0
Both Personal and Business	2.9	3.0	Q	3.7	Q	36.0
Business Use of PC						
Other Business Use	2.2	2.2	Q	2.8	Q	40.8
Used for Telecommuting	2.2	1.9	Q	3.2	Q	35.7
1 to 4 Days per Week	1.0	Q	Q	1.5	Q	48.8
5 to 7 Days per Week	1.2	Q	Q	1.6	Q	51.4
Other Office Equipment						
Cordless Telephone	50.1	51.7	49.2	48.9	51.3	4.9
Facsimile Machine	4.5	4.7	Q	5.0	Q	24.2
Photocopier	1.3	2.1	Q	Q	Q	43.6
Telephone Answering Machine	50.9	52.8	50.2	50.0	44.0	5.6

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC7-7b. Home Office Equipment by Four Most Populated States,
Percent of U.S. Households, 1997**

Home Office Equipment	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.1	1.1	1.5	1.3	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Households Using Office Equipment	79.3	79.4	77.6	75.1	79.4	1.9
Personal Computers	35.1	31.6	39.9	36.7	33.2	5.9
Number of PCs						
1	29.2	27.1	31.0	30.9	26.2	7.9
2 or more	5.9	4.5	8.9	5.8	7.0	16.6
Modem Connecting PC to Telephone Line	20.4	17.8	25.3	20.6	22.9	7.9
PC Uses a Laser Printer	12.5	12.9	12.7	16.0	10.1	11.8
Hours PCs Turned On Each Week						
Less than 2 hours	8.1	6.6	6.8	6.6	5.2	17.3
2 to 15 hours	17.1	15.5	19.9	18.8	17.4	10.8
16 to 40 hours	6.6	7.2	9.1	6.3	6.0	14.3
On All the time	3.3	2.3	4.1	5.0	4.6	17.5
How PC is Used						
15 hours a Week or Less	25.2	22.1	26.8	25.5	22.6	8.1
16 hours a Week or More	9.9	9.5	13.1	11.2	10.5	14.2
Personal Use Only	4.7	3.6	5.3	6.8	4.9	16.2
Business Use Only	2.1	2.0	3.6	1.0	Q	27.1
Both Personal and Business	3.1	3.9	4.2	3.4	5.7	24.8
Business Use of PC						
Other Business Use	3.1	3.6	3.5	Q	4.8	28.2
Used for Telecommuting	2.1	2.4	4.3	2.2	Q	22.3
1 to 4 Days per Week	1.1	1.7	2.5	Q	Q	27.4
5 to 7 Days per Week	1.0	Q	1.9	Q	Q	28.7
Other Office Equipment						
Cordless Telephone	61.4	60.6	58.8	59.8	63.7	2.9
Facsimile Machine	6.2	7.5	10.1	4.8	5.7	13.6
Photocopier	3.7	3.7	4.1	4.0	3.9	17.0
Telephone Answering Machine	58.4	60.0	59.6	54.4	58.7	4.2

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC7-8b. Home Office Equipment by Urban/Rural Location,
Percent of U.S. Households, 1997**

Home Office Equipment	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
		0.8	1.5	1.1	1.4	
RSE Column Factor:	0.6	0.8	1.5	1.1	1.4	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Households Using Office Equipment	79.3	75.8	76.8	89.5	81.1	1.4
Personal Computers	35.1	32.9	30.9	48.0	31.3	4.1
Number of PCs						
1	29.2	27.2	25.6	40.3	26.5	4.7
2 or more	5.9	5.7	5.3	7.8	4.8	11.3
Modem Connecting PC to Telephone Line	20.4	19.8	16.3	29.7	16.1	6.1
PC Uses a Laser Printer	12.5	10.6	11.6	17.7	12.9	8.2
Hours PCs Turned On Each Week						
Less than 2 hours	8.1	7.5	7.8	9.0	8.8	9.3
2 to 15 hours	17.1	16.0	14.9	25.5	13.4	6.2
16 to 40 hours	6.6	6.3	5.6	8.5	6.2	10.0
On All the time	3.3	3.0	2.6	5.0	3.0	14.9
How PC is Used						
15 hours a Week or Less	25.2	23.6	22.7	34.5	22.1	5.0
16 hours a Week or More	9.9	9.3	8.2	13.5	9.2	8.5
Personal Use Only	4.7	4.7	3.8	6.2	4.2	12.3
Business Use Only	2.1	1.7	2.1	3.3	1.9	19.0
Both Personal and Business	3.1	3.0	2.3	4.0	3.1	16.2
Business Use of PC						
Other Business Use	3.1	2.5	3.2	4.4	3.3	15.3
Used for Telecommuting	2.1	2.2	1.2	2.9	1.7	19.9
1 to 4 Days per Week	1.1	1.1	0.4	1.5	1.3	25.3
5 to 7 Days per Week	1.0	1.1	0.8	1.4	Q	29.7
Other Office Equipment						
Cordless Telephone	61.4	58.0	57.7	71.5	63.9	2.2
Facsimile Machine	6.2	5.3	5.5	9.3	6.3	12.2
Photocopier	3.7	2.9	4.1	4.7	4.6	13.0
Telephone Answering Machine	58.4	55.6	57.5	66.8	58.2	2.3

¹ Based on the household respondent's description rather than the Federal Government definition.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC7-9b. Home Office Equipment by Northeast Census Region,
Percent of U.S. Households, 1997**

Home Office Equipment	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.1	1.4	1.3	
Total	100.0	100.0	100.0	100.0	0.0
Households Using Office Equipment	79.3	79.1	78.7	80.0	1.4
Personal Computers	35.1	31.9	30.8	35.0	5.2
Number of PCs					
1	29.2	27.2	26.5	29.2	5.6
2 or more	5.9	4.7	4.3	5.9	11.6
Modem Connecting PC to Telephone Line	20.4	17.8	16.5	21.2	8.2
PC Uses a Laser Printer	12.5	11.4	11.9	10.0	8.8
Hours PCs Turned On Each Week					
Less than 2 hours	8.1	7.6	7.1	8.9	11.5
2 to 15 hours	17.1	14.0	13.4	15.5	5.4
16 to 40 hours	6.6	7.9	8.0	7.7	12.3
On All the time	3.3	2.5	2.2	3.0	19.7
How PC is Used					
15 hours a Week or Less	25.2	21.5	20.5	24.3	6.3
16 hours a Week or More	9.9	10.4	10.3	10.7	11.2
Personal Use Only	4.7	4.5	4.3	5.0	16.0
Business Use Only	2.1	2.3	2.3	2.4	20.6
Both Personal and Business	3.1	3.6	3.7	3.3	14.4
Business Use of PC					
Other Business Use	3.1	3.6	3.8	2.9	14.6
Used for Telecommuting	2.1	2.3	2.2	2.8	19.2
1 to 4 Days per Week	1.1	1.2	Q	Q	25.0
5 to 7 Days per Week	1.0	1.2	Q	Q	31.2
Other Office Equipment					
Cordless Telephone	61.4	59.6	59.5	59.8	2.0
Facsimile Machine	6.2	6.5	7.2	4.8	15.5
Photocopier	3.7	3.8	4.1	3.2	19.0
Telephone Answering Machine	58.4	62.2	61.5	64.1	2.7

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC7-10b. Home Office Equipment by Midwest Census Region,
Percent of U.S. Households, 1997**

Home Office Equipment	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.1	1.8	
Total	100.0	100.0	100.0	100.0	0.0
Households Using Office Equipment	79.3	82.5	82.7	81.9	1.4
Personal Computers	35.1	38.0	38.0	37.9	4.0
Number of PCs					
1	29.2	32.4	32.2	33.0	4.4
2 or more	5.9	5.6	5.9	4.9	12.4
Modem Connecting PC to Telephone Line	20.4	21.7	21.6	22.0	6.9
PC Uses a Laser Printer	12.5	12.9	13.0	12.6	10.0
Hours PCs Turned On Each Week					
Less than 2 hours	8.1	9.7	10.1	8.6	9.3
2 to 15 hours	17.1	18.1	16.5	21.8	7.1
16 to 40 hours	6.6	7.4	8.7	4.2	10.1
On All the time	3.3	2.9	2.7	3.4	16.4
How PC is Used					
15 hours a Week or Less	25.2	27.7	26.6	30.4	4.8
16 hours a Week or More	9.9	10.2	11.4	7.5	9.3
Personal Use Only	4.7	5.2	5.7	4.0	13.1
Business Use Only	2.1	2.5	3.0	Q	22.0
Both Personal and Business	3.1	2.6	2.7	2.3	21.9
Business Use of PC					
Other Business Use	3.1	3.3	3.7	2.5	22.6
Used for Telecommuting	2.1	1.7	2.0	Q	22.1
1 to 4 Days per Week	1.1	Q	Q	Q	25.5
5 to 7 Days per Week	1.0	0.9	Q	Q	33.8
Other Office Equipment					
Cordless Telephone	61.4	63.8	64.1	63.1	2.2
Facsimile Machine	6.2	5.3	5.3	5.2	19.3
Photocopier	3.7	3.9	4.2	3.1	18.1
Telephone Answering Machine	58.4	61.0	61.9	58.9	2.5

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC7-11b. Home Office Equipment by South Census Region,
Percent of U.S. Households, 1997**

Home Office Equipment	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West south Central	
RSE Column Factor:	0.4	0.8	1.0	1.6	1.6	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Households Using Office Equipment	79.3	76.7	78.4	75.7	74.4	1.9
Personal Computers	35.1	31.0	32.3	25.2	32.1	5.5
Number of PCs						
1	29.2	25.9	26.6	23.0	26.5	6.8
2 or more	5.9	5.1	5.7	2.2	5.6	13.7
Modem Connecting PC to Telephone Line	20.4	18.2	19.9	14.7	17.4	7.3
PC Uses a Laser Printer	12.5	11.7	11.4	8.6	14.1	10.9
Hours PCs Turned On Each Week						
Less than 2 hours	8.1	7.1	7.3	6.3	7.4	10.6
2 to 15 hours	17.1	15.9	16.0	14.6	16.5	7.4
16 to 40 hours	6.6	4.4	5.1	2.3	4.4	12.1
On All the time	3.3	3.6	3.9	2.0	4.0	18.8
How PC is Used						
15 hours a Week or Less	25.2	23.0	23.3	21.0	23.8	5.8
16 hours a Week or More	9.9	8.0	9.0	4.3	8.3	12.1
Personal Use Only	4.7	4.2	4.4	2.2	5.0	15.7
Business Use Only	2.1	1.1	1.4	Q	Q	25.4
Both Personal and Business	3.1	2.7	3.2	Q	2.4	22.0
Business Use of PC						
Other Business Use	3.1	2.6	3.5	Q	Q	21.9
Used for Telecommuting	2.1	1.2	1.1	Q	Q	26.2
1 to 4 Days per Week	1.1	0.5	Q	Q	Q	30.7
5 to 7 Days per Week	1.0	0.6	Q	Q	Q	41.1
Other Office Equipment						
Cordless Telephone	61.4	61.5	63.4	61.8	57.9	2.6
Facsimile Machine	6.2	5.6	7.3	2.9	4.3	13.1
Photocopier	3.7	3.5	3.6	2.8	3.7	14.0
Telephone Answering Machine	58.4	54.2	55.8	52.9	52.2	3.4

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC7-12b. Home Office Equipment by West Census Region,
Percent of U.S. Households, 1997**

Home Office Equipment	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.8	1.1	
Total	100.0	100.0	100.0	100.0	0.0
Households Using Office Equipment	79.3	80.4	82.0	79.8	1.6
Personal Computers	35.1	41.3	39.8	42.0	5.4
Number of PCs					
1	29.2	32.9	32.4	33.0	6.2
2 or more	5.9	8.5	7.4	8.9	13.4
Modem Connecting PC to Telephone Line	20.4	24.9	21.6	26.2	8.4
PC Uses a Laser Printer	12.5	14.2	13.1	14.6	7.9
Hours PCs Turned On Each Week					
Less than 2 hours	8.1	8.2	7.9	8.3	7.1
2 to 15 hours	17.1	21.0	22.8	20.3	7.0
16 to 40 hours	6.6	8.0	6.7	8.5	12.0
On All the time	3.3	4.1	2.3	4.8	15.5
How PC is Used					
15 hours a Week or Less	25.2	29.3	30.8	28.7	5.4
16 hours a Week or More	9.9	12.1	9.0	13.3	10.5
Personal Use Only	4.7	5.3	4.5	5.6	13.6
Business Use Only	2.1	3.1	2.5	3.3	21.7
Both Personal and Business	3.1	3.7	Q	4.4	17.0
Business Use of PC					
Other Business Use	3.1	3.2	2.4	3.5	19.2
Used for Telecommuting	2.1	3.6	Q	4.2	14.8
1 to 4 Days per Week	1.1	2.1	Q	2.3	19.6
5 to 7 Days per Week	1.0	1.6	Q	2.0	23.3
Other Office Equipment					
Cordless Telephone	61.4	60.2	62.2	59.4	2.6
Facsimile Machine	6.2	8.1	4.4	9.5	13.4
Photocopier	3.7	3.9	4.1	3.8	16.8
Telephone Answering Machine	58.4	59.1	57.0	59.9	3.6

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC7-13b. Home Office Equipment by Census Region,
Percent of U.S. Households, 1997**

Home Office Equipment	Total	Census Region				RSE Row Factors
		Northeast	Midwest	South	West	
RSE Column Factor:	0.6	1.3	1.1	1.1	1.1	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Households Using Office Equipment	79.3	79.1	82.5	76.7	80.4	1.3
Personal Computers	35.1	31.9	38.0	31.0	41.3	4.1
Number of PCs						
1	29.2	27.2	32.4	25.9	32.9	4.9
2 or more	5.9	4.7	5.6	5.1	8.5	10.7
Modem Connecting PC to Telephone Line	20.4	17.8	21.7	18.2	24.9	6.3
PC Uses a Laser Printer	12.5	11.4	12.9	11.7	14.2	7.9
Hours PCs Turned On Each Week						
Less than 2 hours	8.1	7.6	9.7	7.1	8.2	8.0
2 to 15 hours	17.1	14.0	18.1	15.9	21.0	5.9
16 to 40 hours	6.6	7.9	7.4	4.4	8.0	9.2
On All the time	3.3	2.5	2.9	3.6	4.1	14.3
How PC is Used						
15 hours a Week or Less	25.2	21.5	27.7	23.0	29.3	4.8
16 hours a Week or More	9.9	10.4	10.2	8.0	12.1	8.7
Personal Use Only	4.7	4.5	5.2	4.2	5.3	12.2
Business Use Only	2.1	2.3	2.5	1.1	3.1	19.1
Both Personal and Business	3.1	3.6	2.6	2.7	3.7	15.7
Business Use of PC						
Other Business Use	3.1	3.6	3.3	2.6	3.2	16.8
Used for Telecommuting	2.1	2.3	1.7	1.2	3.6	17.4
1 to 4 Days per Week	1.1	1.2	Q	0.5	2.1	21.1
5 to 7 Days per Week	1.0	1.2	0.9	0.6	1.6	27.7
Other Office Equipment						
Cordless Telephone	61.4	59.6	63.8	61.5	60.2	2.0
Facsimile Machine	6.2	6.5	5.3	5.6	8.1	13.4
Photocopier	3.7	3.8	3.9	3.5	3.9	13.6
Telephone Answering Machine	58.4	62.2	61.0	54.2	59.1	2.5

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

1997 Housing Characteristics Tables

Housing Unit Tables

(Million U.S. Households; 45 pages, 128 kb)

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These data are from the 1997 Residential Energy Consumption Survey (RECS) which provides information on the use of energy in residential housing units in the United States. The RECS is a national statistical survey that collects data for occupied primary housing units. RECS was first conducted in 1978; the sixth and most recent survey was conducted in 1997 RECS. The data were collected from a sample of 5,900 housing units statistically selected to represent the 101.5 million units in the United States. The 1997 data are available for the four Census regions, the nine Census divisions, and for the four most populous States--California, Florida, New York, and Texas.

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

**Table HC1-1a. Housing Unit Characteristics by Climate Zone,
Million U.S. Households, 1997**

Housing Unit Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.8	1.1	1.1	1.2	1.0	
Total	101.5	9.3	28.0	22.5	19.5	22.2	8.0
Census Region and Division							
Northeast	19.7	2.0	9.6	8.1	Q	Q	6.1
New England	5.3	1.5	3.9	Q	Q	Q	16.6
Middle Atlantic	14.4	0.5	5.7	8.1	Q	Q	4.0
Midwest	24.1	5.4	14.7	3.9	Q	Q	18.8
East North Central	16.9	2.7	12.4	Q	Q	Q	15.7
West North Central	7.2	2.7	Q	2.1	Q	Q	25.2
South	35.9	Q	Q	8.0	9.2	18.7	10.7
South Atlantic	18.7	Q	Q	5.7	5.2	7.8	3.3
East South Central	6.3	Q	Q	2.3	Q	Q	32.6
West South Central	10.8	Q	Q	Q	Q	9.4	10.4
West	21.8	1.8	3.7	2.4	10.3	3.5	9.4
Mountain	6.2	0.9	2.7	Q	Q	2.1	9.2
Pacific	15.6	0.9	Q	2.4	9.9	1.4	5.8
Metropolitan Statistical Area							
Urban	78.6	4.3	23.2	17.9	14.6	18.6	7.3
Central City	36.8	2.5	10.4	7.5	6.8	9.5	12.8
Suburban	41.9	1.8	12.8	10.4	7.7	9.1	10.1
Rural	22.8	5.0	4.8	4.6	4.9	3.5	19.8
Climate Zone¹							
Fewer than 2,000 CDD and--							
More than 7,000 HDD	9.3	9.3	--	--	--	--	20.5
5,500 to 7,000 HDD	28.0	--	28.0	--	--	--	13.2
4,000 to 5,499 HDD	22.5	--	--	22.5	--	--	12.8
Fewer than 4,000 HDD	19.5	--	--	--	19.5	--	13.6
2,000 CDD or More and --							
Fewer than 4,000 HDD	22.2	--	--	--	--	22.2	10.6
Estimated Heated Floorspace Category (square feet)²							
Fewer than 600	7.9	0.5	2.0	2.0	2.0	1.4	12.3
600 to 999	21.5	2.1	6.2	4.6	4.4	4.2	9.8
1,000 to 1,599	30.4	3.1	7.7	6.0	6.5	7.1	9.5
1,600 to 1,999	15.3	1.4	4.7	3.3	2.6	3.3	12.2
2,000 to 2,399	7.9	0.6	2.2	1.7	1.5	1.9	12.8
2,400 to 2,999	5.3	0.5	1.7	1.1	0.9	1.1	16.2
3,000 or More	4.1	0.4	1.2	0.7	0.6	1.3	20.6
No Estimate Provided	9.1	0.7	2.4	3.2	1.0	1.9	14.9
Ownership of Unit							
Owned	68.5	7.0	19.3	14.8	12.0	15.3	8.0
Rented	33.0	2.2	8.7	7.7	7.5	6.9	8.2

See footnotes at end of table.

**Table HC1-1a. Housing Unit Characteristics by Climate Zone,
Million U.S. Households, 1997 (Continued)**

Housing Unit Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.8	1.1	1.1	1.2	1.0	
Type and Ownership of Housing Unit							
Single-Family Detached	63.8	6.8	17.7	12.9	12.0	14.4	8.4
Owned	55.6	6.1	16.0	11.3	9.9	12.4	8.7
Rented	8.1	0.7	1.7	1.6	2.1	2.1	14.0
Single-Family Attached	9.9	0.9	2.8	2.9	1.8	1.6	15.0
Owned	5.5	0.4	1.4	2.0	0.8	0.9	20.3
Rented	4.5	0.5	1.4	0.9	1.0	0.7	16.6
Multifamily (2 to 4 units)	5.6	0.5	2.2	1.3	0.8	0.8	17.8
Owned	0.9	Q	0.5	0.2	Q	Q	33.8
Rented	4.7	0.4	1.7	1.1	0.8	0.7	19.1
Multifamily (5 or more units)	15.8	0.6	4.0	4.3	3.5	3.4	13.6
Owned	1.2	Q	0.3	0.4	Q	0.3	39.2
Rented	14.6	0.6	3.7	3.9	3.3	3.1	13.2
Mobile Home	6.3	0.5	1.4	1.1	1.5	2.0	19.8
Owned	5.3	0.4	1.1	0.9	1.2	1.6	21.9
Rented	1.1	Q	0.2	0.2	0.2	0.3	30.0
Year of Construction							
1939 or Before	18.7	3.3	7.1	5.1	1.9	1.4	13.9
1940 to 1949	9.2	0.7	2.5	2.1	2.5	1.4	12.5
1950 to 1959	12.5	0.9	3.7	2.6	2.5	2.8	10.4
1960 to 1969	14.4	0.9	3.9	3.0	3.1	3.6	10.5
1970 to 1979	19.6	1.5	5.1	3.8	4.0	5.2	10.8
1980 to 1989	17.3	1.1	3.4	4.2	3.4	5.3	12.1
1990 to 1997 ³	9.7	0.9	2.4	1.6	2.2	2.6	16.8
Urban/Rural Location⁴							
City	48.2	3.7	12.3	8.5	11.4	12.3	8.5
Town	18.2	2.4	5.6	4.3	3.2	2.7	17.5
Suburbs	18.6	0.9	5.9	5.7	2.1	3.9	12.6
Rural or Open Country	16.5	2.2	4.3	4.0	2.8	3.2	14.6
Total Number of Rooms (Excluding Bathrooms)							
1 or 2	3.1	Q	0.7	0.6	1.0	0.6	18.4
3	9.2	0.5	2.0	2.3	2.1	2.2	12.7
4	18.3	1.5	5.2	4.4	3.7	3.6	11.0
5	21.3	2.0	5.4	3.9	4.5	5.5	10.6
6	20.0	2.1	5.4	4.5	3.9	4.2	10.2
7	14.2	1.2	4.3	3.4	2.1	3.3	11.3
8	8.4	0.9	2.8	2.0	1.3	1.4	14.1
9 or More	7.0	0.8	2.2	1.5	1.0	1.4	14.3
Bedrooms							
None or 1	13.2	0.9	3.3	3.3	3.0	2.7	10.5
2	28.8	2.5	7.6	6.6	5.7	6.3	9.4
3	41.0	4.0	11.2	8.6	7.6	9.6	9.3
4 or More	18.6	1.8	6.0	4.0	3.2	3.6	10.6

See footnotes at end of table.

**Table HC1-1a. Housing Unit Characteristics by Climate Zone,
Million U.S. Households, 1997 (Continued)**

Housing Unit Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.8	1.1	1.1	1.2	1.0	
Other Rooms (Excluding Bathrooms)							
None or 1	5.1	0.3	1.2	0.9	1.4	1.3	15.8
2	38.6	3.1	10.2	8.2	8.5	8.6	8.4
3	31.0	3.3	8.0	7.1	5.6	7.1	9.1
4	17.6	1.5	5.7	4.3	2.6	3.5	10.8
5 or More	9.2	1.1	3.0	2.1	1.3	1.8	12.9
Full Bathrooms							
None or 1	59.4	6.2	18.3	14.1	10.3	10.4	7.7
2	35.9	2.5	8.3	7.4	7.6	10.1	8.6
3 or More	6.2	0.5	1.5	0.9	1.5	1.7	18.1
Half Bathrooms							
None	73.0	6.7	18.8	15.1	15.2	17.3	8.4
1	26.5	2.4	8.5	6.8	4.1	4.7	8.8
2 or More	Q	Q	Q	Q	Q	Q	NF
Number of Stories							
Single-Family Homes	73.7	7.7	20.5	15.8	13.7	16.0	7.7
1 Story	41.1	3.3	8.1	6.6	9.8	13.2	10.2
2 Stories	26.9	3.9	10.0	6.9	3.6	2.6	10.9
3 Stories	3.2	0.3	1.3	1.4	Q	Q	15.8
Split-Level	2.4	0.3	1.0	0.9	Q	Q	22.0
Other	Q	Q	Q	Q	Q	Q	NF
Mobile Homes	6.3	0.5	1.4	1.1	1.5	2.0	19.8
Number of Floors in Apartment Buildings							
1 or 2 Floors	10.9	0.6	2.7	1.8	2.6	3.2	15.2
3 or 4 Floors	5.4	0.3	2.0	1.7	1.1	0.3	27.2
5 to 10 Floors	2.1	Q	0.5	1.2	Q	Q	20.7
11 to 20 Floors	0.8	Q	Q	0.4	Q	Q	30.3
More than 20 Floors	0.2	Q	Q	Q	Q	Q	71.4
Don't Know/No Answer	2.0	Q	0.8	0.5	0.3	0.3	26.1
Foundation/Basement of Single-Family Homes (More than one may apply)							
Basement	33.2	6.1	15.5	9.1	1.7	0.9	12.6
Crawlspace	22.5	1.2	4.5	4.8	7.1	5.0	12.2
Concrete Slab	23.0	0.8	2.6	3.2	5.6	10.9	10.3
Not Asked (Mobile Homes and Multi-Family Units)	27.7	1.5	7.6	6.7	5.8	6.2	10.1
Garage/Carport							
Yes	54.5	6.1	15.6	10.9	10.0	11.9	8.4
1-Car Garage	16.2	2.4	4.5	4.5	2.6	2.4	12.2
2-Car Garage	29.7	3.1	9.4	4.8	5.9	6.4	10.7
3-Car Garage	2.8	0.3	1.1	0.5	0.5	0.3	19.9
Covered Carport	6.4	0.3	0.6	1.4	1.2	2.9	18.1
No	25.6	2.1	6.2	6.0	5.2	6.1	10.7
Not Asked (Apartments)	21.4	1.1	6.2	5.6	4.3	4.2	11.1

See footnotes at end of table.

**Table HC1-1a. Housing Unit Characteristics by Climate Zone,
Million U.S. Households, 1997 (Continued)**

Housing Unit Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.8	1.1	1.1	1.2	1.0	
Fuels Used For Any Use (more than one often used)							
Electricity	101.4	9.2	28.0	22.5	19.5	22.2	8.0
Natural Gas	61.9	5.1	20.0	12.7	12.7	11.5	8.7
Wood	15.0	2.0	3.3	3.5	3.4	2.9	11.5
Fuel Oil	10.0	2.0	3.1	4.4	0.3	Q	17.0
LPG	8.1	1.4	1.9	1.6	1.7	1.4	23.3
Kerosene	3.5	0.4	0.8	0.9	0.9	0.4	19.1
Solar	0.7	Q	Q	Q	Q	0.4	51.1
Main Heating Fuel							
Natural Gas	53.5	4.9	18.7	9.9	10.6	9.3	9.6
Electricity	29.6	1.1	4.3	6.8	6.5	10.9	10.5
Fuel Oil	9.5	1.9	3.0	4.2	0.2	Q	16.9
LPG	4.6	0.5	1.3	0.8	1.2	0.8	29.3
Wood	2.2	0.6	0.4	0.5	0.5	0.3	24.3
Kerosene	1.0	0.2	0.2	0.1	0.3	Q	28.6
Solar	Q	Q	Q	Q	Q	Q	NF
Other/None	1.2	Q	0.2	0.2	Q	0.6	35.0

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

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

³ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

⁴ Based on the household respondent's description rather than the Federal Government definition.

-- = 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" 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 of the 1997 Residential Energy Consumption Survey.

**Table HC1-2a. Housing Unit Characteristics by Year of Construction,
Million U.S. Households, 1997**

Housing Unit Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.7	1.2	1.0	1.1	1.1	0.9	
Total	101.5	9.7	17.3	19.6	14.4	12.5	27.9	4.2
Census Region and Division								
Northeast	19.7	1.2	2.3	2.6	2.6	2.7	8.3	8.9
New England	5.3	0.2	0.6	0.7	0.9	0.7	2.2	13.2
Middle Atlantic	14.4	0.9	1.8	1.9	1.7	2.0	6.1	11.0
Midwest	24.1	2.0	2.9	4.0	3.2	2.7	9.3	9.4
East North Central	16.9	1.2	1.9	3.0	2.3	2.0	6.5	11.2
West North Central	7.2	0.8	1.0	1.0	0.8	0.7	2.8	17.0
South	35.9	4.6	8.2	7.8	5.1	4.2	5.9	6.8
South Atlantic	18.7	2.4	5.1	4.0	2.2	2.2	2.9	9.5
East South Central	6.3	0.9	1.1	1.5	0.9	0.8	1.2	14.9
West South Central	10.8	1.3	2.0	2.3	2.0	1.2	1.9	11.4
West	21.8	1.9	3.9	5.1	3.6	2.9	4.4	8.1
Mountain	6.2	0.6	1.0	1.6	1.1	0.8	1.1	14.4
Pacific	15.6	1.4	2.8	3.5	2.5	2.1	3.3	9.5
Metropolitan Statistical Area								
Urban	78.6	7.1	14.0	15.3	11.5	10.4	20.4	5.0
Central City	36.8	2.7	4.9	6.1	5.6	5.1	12.4	8.2
Suburban	41.9	4.4	9.1	9.2	5.9	5.4	7.9	7.9
Rural	22.8	2.6	3.3	4.2	3.0	2.1	7.6	8.3
Climate Zone²								
Fewer than 2,000 CDD and--								
More than 7,000 HDD	9.3	0.9	1.1	1.5	0.9	0.9	4.0	19.7
5,500 to 7,000 HDD	28.0	2.4	3.4	5.1	3.9	3.7	9.6	11.7
4,000 to 5,499 HDD	22.5	1.6	4.2	3.8	3.0	2.6	7.2	13.4
Fewer than 4,000 HDD	19.5	2.2	3.4	4.0	3.1	2.5	4.4	13.2
2,000 CDD or More and --								
Fewer than 4,000 HDD	22.2	2.6	5.3	5.2	3.6	2.8	2.7	10.6
Estimated Heated Floorspace Category (square feet)³								
Fewer than 600	7.9	0.5	1.1	1.5	1.3	0.8	2.7	12.9
600 to 999	21.5	1.1	2.9	5.2	3.2	2.6	6.4	8.4
1,000 to 1,599	30.4	3.0	5.2	4.9	4.6	4.7	7.9	7.3
1,600 to 1,999	15.3	1.5	3.0	2.9	2.2	2.0	3.8	8.8
2,000 to 2,399	7.9	0.9	1.4	1.9	1.0	0.8	1.8	11.5
2,400 to 2,999	5.3	0.9	1.7	1.1	0.5	0.3	0.8	16.2
3,000 or More	4.1	1.3	0.8	0.7	0.3	0.2	0.8	20.1
No Estimate Provided	9.1	0.5	1.3	1.3	1.4	1.1	3.5	13.3
Ownership of Unit								
Owned	68.5	7.6	12.0	12.8	9.2	8.9	18.0	4.7
Rented	33.0	2.1	5.3	6.8	5.2	3.7	9.9	7.1

See footnotes at end of table.

**Table HC1-2a. Housing Unit Characteristics by Year of Construction,
Million U.S. Households, 1997 (Continued)**

Housing Unit Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.7	1.2	1.0	1.1	1.1	0.9	
Type and Ownership of Housing Unit								
Single-Family Detached	63.8	6.3	9.6	10.6	9.0	9.9	18.4	5.0
Owned	55.6	5.8	8.8	9.4	7.8	8.4	15.4	5.4
Rented	8.1	0.4	0.8	1.2	1.1	1.5	3.0	12.7
Single-Family Attached	9.9	0.9	2.4	1.7	1.0	0.7	3.4	14.6
Owned	5.5	0.5	1.6	1.0	0.3	0.3	1.9	21.7
Rented	4.5	0.4	0.8	0.7	0.6	0.4	1.5	17.6
Multifamily (2 to 4 units)	5.6	Q	0.7	0.9	0.9	0.4	2.5	16.4
Owned	0.9	Q	Q	0.2	Q	Q	0.6	35.0
Rented	4.7	Q	0.6	0.7	0.8	0.4	2.0	17.6
Multifamily (5 or more units)	15.8	1.1	3.0	4.2	2.7	1.3	3.4	12.2
Owned	1.2	Q	Q	0.6	0.2	Q	Q	37.0
Rented	14.6	1.0	2.9	3.7	2.5	1.2	3.3	12.6
Mobile Home	6.3	1.3	1.7	2.1	0.9	0.2	0.2	17.4
Owned	5.3	1.2	1.4	1.7	0.8	Q	Q	14.4
Rented	1.1	Q	0.2	0.4	0.2	Q	Q	27.8
Year of Construction								
1939 or Before	18.7	--	--	--	--	--	18.7	8.1
1940 to 1949	9.2	--	--	--	--	--	9.2	8.1
1950 to 1959	12.5	--	--	--	--	12.5	--	5.7
1960 to 1969	14.4	--	--	--	14.4	--	--	5.9
1970 to 1979	19.6	--	--	19.6	--	--	--	5.7
1980 to 1989	17.3	--	17.3	--	--	--	--	7.5
1990 to 1997 ¹	9.7	9.7	--	--	--	--	--	8.3
Urban/Rural Location⁴								
City	48.2	3.2	6.9	8.9	6.7	6.7	15.9	6.4
Town	18.2	1.6	3.1	3.2	2.6	1.9	5.8	10.3
Suburbs	18.6	2.5	4.4	3.7	2.9	2.8	2.3	10.6
Rural or Open Country	16.5	2.4	3.0	3.7	2.2	1.2	4.0	9.3
Total Number of Rooms (Excluding Bathrooms)								
1 or 2	3.1	Q	0.5	0.7	0.4	0.2	1.0	22.3
3	9.2	0.4	1.3	2.3	1.8	0.8	2.5	12.6
4	18.3	1.6	3.3	3.8	2.9	2.3	4.5	9.3
5	21.3	2.4	3.9	4.0	2.8	2.7	5.4	7.2
6	20.0	1.5	3.1	3.3	2.6	3.0	6.5	7.9
7	14.2	1.2	2.4	2.6	2.2	2.3	3.6	9.3
8	8.4	1.0	1.4	1.6	1.1	0.8	2.4	13.2
9 or More	7.0	1.4	1.4	1.2	0.6	0.4	2.0	14.4
Bedrooms								
None or 1	13.2	0.6	1.7	2.9	2.2	1.2	4.5	11.2
2	28.8	2.1	4.9	5.7	4.2	3.4	8.4	6.8
3	41.0	4.3	7.5	7.7	5.5	6.2	9.9	5.7
4 or More	18.6	2.8	3.1	3.2	2.5	1.7	5.2	9.6

See footnotes at end of table.

**Table HC1-2a. Housing Unit Characteristics by Year of Construction,
Million U.S. Households, 1997 (Continued)**

Housing Unit Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.7	1.2	1.0	1.1	1.1	0.9	
Other Rooms								
(Excluding Bathrooms)								
None or 1	5.1	0.4	1.0	1.3	0.7	0.4	1.3	16.5
2	38.6	4.0	6.6	8.0	6.6	4.8	8.7	6.0
3	31.0	2.2	4.9	5.5	3.9	4.4	10.2	6.7
4	17.6	1.6	3.4	3.2	2.3	2.0	5.0	9.2
5 or More	9.2	1.6	1.4	1.6	1.0	0.9	2.7	12.1
Full Bathrooms								
None or 1	59.4	2.4	6.2	11.0	9.4	8.7	21.6	5.3
2	35.9	5.7	9.7	7.2	4.4	3.4	5.5	6.7
3 or More	6.2	1.7	1.3	1.3	0.7	0.5	0.8	16.8
Half Bathrooms								
None	73.0	6.1	11.3	13.7	10.5	9.8	21.7	5.0
1	26.5	3.6	5.6	5.5	3.7	2.6	5.6	7.5
2 or More	Q	Q	Q	Q	Q	Q	Q	NF
Number of Stories								
Single-Family Homes	73.7	7.1	11.9	12.3	9.9	10.7	21.8	4.6
1 Story	41.1	3.6	5.7	7.6	7.3	8.1	8.9	6.2
2 Stories	26.9	3.2	4.9	3.4	2.0	2.2	11.2	8.7
3 Stories	3.2	Q	0.5	0.6	0.3	Q	1.5	19.7
Split-Level	2.4	Q	0.8	0.7	0.4	0.2	Q	22.3
Other	Q	Q	Q	Q	Q	Q	Q	Q
Mobile Homes	6.3	1.3	1.7	2.1	0.9	0.2	0.2	17.4
Number of Floors in Apartment Buildings								
1 or 2 Floors	10.9	0.7	2.3	2.7	1.9	1.0	2.3	13.1
3 or 4 Floors	5.4	0.2	0.7	1.2	0.9	0.3	2.1	25.4
5 to 10 Floors	2.1	Q	Q	0.5	0.2	0.2	0.7	26.6
11 to 20 Floors	0.8	Q	Q	Q	0.2	Q	Q	37.4
More than 20 Floors	0.2	Q	Q	Q	Q	Q	Q	58.2
Don't Know/No Answer	2.0	Q	0.4	0.5	0.2	Q	0.7	27.8
Foundation/Basement of Single-Family Homes (More than one may apply)								
Basement	33.2	2.5	3.5	4.3	4.0	4.5	14.4	7.6
Crawlspace	22.5	1.8	2.3	3.6	3.3	4.1	7.4	9.6
Concrete Slab	23.0	3.1	6.3	5.4	3.5	2.6	2.1	9.2
Not Asked (Mobile Homes and Multi-Family Units)	27.7	2.6	5.4	7.3	4.5	1.9	6.1	8.5
Garage/Carport								
Yes	54.5	6.2	9.8	10.0	7.8	7.7	13.0	5.5
1-Car Garage	16.2	0.8	2.1	2.3	2.3	3.3	5.4	10.8
2-Car Garage	29.7	4.0	6.5	6.2	4.1	3.1	5.7	7.9
3-Car Garage	2.8	1.0	0.5	0.3	Q	Q	0.7	16.4
Covered Carport	6.4	0.3	0.7	1.4	1.3	1.3	1.4	14.4
No	25.6	2.3	3.8	4.4	3.1	3.1	9.0	7.6
Not Asked (Apartments)	21.4	1.3	3.7	5.2	3.6	1.7	6.0	10.4

See footnotes at end of table.

Table HC1-2a. Housing Unit Characteristics by Year of Construction, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.7	1.2	1.0	1.1	1.1	0.9	
Fuels Used For Any Use (more than one often used)								
Electricity	101.4	9.7	17.3	19.6	14.4	12.5	27.9	4.2
Natural Gas	61.9	5.2	7.5	9.5	9.6	9.2	20.9	6.1
Wood	15.0	1.6	3.7	3.4	2.2	1.4	2.8	9.8
Fuel Oil	10.0	0.3	0.6	1.0	1.5	1.5	5.0	14.6
LPG	8.1	0.9	1.2	1.7	1.1	0.7	2.5	14.0
Kerosene	3.5	0.2	0.5	0.8	0.4	0.3	1.4	18.4
Solar	0.7	Q	Q	0.3	Q	Q	Q	39.3
Main Heating Fuel								
Natural Gas	53.5	4.7	6.2	8.1	8.3	8.1	18.1	6.5
Electricity	29.6	3.9	9.3	8.5	3.4	2.2	2.3	8.4
Fuel Oil	9.5	0.3	0.5	1.0	1.5	1.4	4.7	14.6
LPG	4.6	0.6	0.7	1.0	0.6	0.5	1.4	17.1
Wood	2.2	Q	0.4	0.5	0.4	0.2	0.7	22.5
Kerosene	1.0	Q	0.1	0.3	Q	Q	0.3	30.6
Solar	Q	Q	Q	Q	Q	Q	Q	NF
Other/None	1.2	Q	Q	0.3	0.2	Q	0.4	34.8

¹ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

² One of five climatically distinct areas, determined according to the 30-year average (1961-1990) of the annual heating and cooling degree-days. For this report, the heating or cooling degree-days are a measure of how cold or how hot a location is over a period of one year, relative to a base temperature of 65 degrees Fahrenheit. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station.

³ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

⁴ Based on the household respondent's description rather than the Federal Government definition.

-- = 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" 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 of the 1997 Residential Energy Consumption Survey.

Table HC1-3a. Housing Unit Characteristics by Household Income, Million U.S. Households, 1997

Housing Unit Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.4	1.0	0.9	1.1	1.3	1.0	
Total	101.5	13.3	29.1	31.1	27.9	14.6	34.1	2.7
Census Region and Division								
Northeast	19.7	2.5	4.6	6.2	6.3	2.5	6.4	5.0
New England	5.3	0.4	1.4	1.7	1.7	0.4	1.9	7.0
Middle Atlantic	14.4	2.1	3.2	4.5	4.6	2.1	4.6	6.2
Midwest	24.1	2.5	6.5	8.0	7.1	2.9	7.2	4.9
East North Central	16.9	1.8	4.6	5.5	5.0	2.1	5.3	5.2
West North Central	7.2	0.7	1.9	2.5	2.1	0.8	1.9	10.7
South	35.9	5.6	10.9	10.1	9.3	5.7	12.4	4.9
South Atlantic	18.7	2.8	5.3	5.5	5.2	2.9	6.4	7.1
East South Central	6.3	1.2	2.0	1.9	1.2	1.2	2.3	6.4
West South Central	10.8	1.7	3.6	2.7	2.9	1.6	3.8	9.3
West	21.8	2.7	7.1	6.8	5.2	3.6	8.1	6.3
Mountain	6.2	0.8	2.0	2.1	1.3	0.9	1.9	9.6
Pacific	15.6	1.9	5.1	4.7	3.9	2.7	6.2	7.8
Metropolitan Statistical Area								
Urban	78.6	9.9	21.1	24.0	23.6	11.0	25.0	3.1
Central City	36.8	6.1	11.3	11.1	8.3	6.6	14.2	5.9
Suburban	41.9	3.8	9.8	12.9	15.4	4.5	10.9	6.5
Rural	22.8	3.4	8.0	7.1	4.3	3.6	9.1	6.8
Climate Zone²								
Fewer than 2,000 CDD and--								
More than 7,000 HDD	9.3	0.8	2.8	3.3	2.3	1.0	2.8	18.6
5,500 to 7,000 HDD	28.0	2.9	7.2	9.2	8.8	3.3	8.2	9.7
4,000 to 5,499 HDD	22.5	3.2	5.7	6.9	6.7	3.1	7.6	9.9
Fewer than 4,000 HDD	19.5	2.9	6.4	5.8	4.5	3.7	7.6	11.8
2,000 CDD or More and --								
Fewer than 4,000 HDD	22.2	3.5	7.2	5.9	5.6	3.6	7.9	9.4
Estimated Heated Floorspace Category (square feet)³								
Fewer than 600	7.9	2.9	3.1	1.6	0.3	2.7	4.9	10.8
600 to 999	21.5	4.3	8.6	6.0	2.6	4.6	10.2	6.4
1,000 to 1,599	30.4	2.8	9.7	10.8	7.0	3.7	9.9	5.7
1,600 to 1,999	15.3	0.6	3.2	5.4	6.1	0.9	2.8	7.8
2,000 to 2,399	7.9	0.2	1.2	2.5	4.0	0.3	1.1	12.9
2,400 to 2,999	5.3	Q	0.3	1.4	3.4	0.2	0.5	17.5
3,000 or More	4.1	Q	0.3	0.9	2.8	Q	0.4	19.4
No Estimate Provided	9.1	2.2	2.7	2.5	1.7	2.2	4.4	10.7
Ownership of Unit								
Owned	68.5	5.1	17.6	21.9	23.9	5.7	17.1	3.8
Rented	33.0	8.2	11.5	9.3	4.0	9.0	17.0	5.0

See footnotes at end of table.

Table HC1-3a. Housing Unit Characteristics by Household Income, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.4	1.0	0.9	1.1	1.3	1.0	
Type and Ownership of Housing Unit								
Single-Family Detached	63.8	5.1	15.5	20.4	22.8	6.1	16.3	4.0
Owned	55.6	3.7	12.8	17.8	21.3	4.1	12.5	4.5
Rented	8.1	1.4	2.7	2.5	1.5	2.0	3.8	9.3
Single-Family Attached	9.9	1.5	3.1	3.0	2.3	1.6	3.7	10.2
Owned	5.5	0.4	1.6	1.7	1.7	0.5	1.5	16.0
Rented	4.5	1.1	1.5	1.3	0.6	1.2	2.3	12.1
Multifamily (2 to 4 units)	5.6	1.5	2.1	1.3	0.7	1.5	3.0	12.6
Owned	0.9	Q	0.2	0.3	0.3	Q	0.3	29.9
Rented	4.7	1.4	1.9	1.0	0.4	1.4	2.7	14.4
Multifamily (5 or more units)	15.8	4.2	5.3	4.7	1.7	4.0	8.0	8.8
Owned	1.2	0.2	0.3	0.5	Q	Q	0.5	27.5
Rented	14.6	4.0	4.9	4.2	1.5	3.9	7.5	8.8
Mobile Home	6.3	1.0	3.2	1.7	0.5	1.4	3.0	13.2
Owned	5.3	0.7	2.7	1.5	0.4	1.0	2.3	14.3
Rented	1.1	0.3	0.5	0.2	Q	0.4	0.7	23.4
Year of Construction								
1939 or Before	18.7	3.2	5.8	5.7	4.0	3.5	7.7	7.6
1940 to 1949	9.2	1.4	3.3	2.7	1.8	1.6	4.0	9.2
1950 to 1959	12.5	1.7	4.1	3.9	2.9	2.1	4.7	7.0
1960 to 1969	14.4	1.8	4.4	4.8	3.5	2.2	4.7	7.9
1970 to 1979	19.6	2.5	5.2	6.3	5.6	2.7	6.1	6.7
1980 to 1989	17.3	1.8	4.5	4.7	6.3	1.8	4.7	9.1
1990 to 1997 ⁴	9.7	0.9	1.9	3.0	3.9	0.8	2.2	12.6
Urban/Rural Location⁵								
City	48.2	8.0	15.4	14.5	10.3	8.8	19.0	4.6
Town	18.2	2.7	5.7	5.3	4.5	2.9	7.1	9.2
Suburbs	18.6	0.9	3.3	5.8	8.6	1.0	3.0	9.2
Rural or Open Country	16.5	1.7	4.7	5.5	4.5	2.0	5.0	8.7
Total Number of Rooms (Excluding Bathrooms)								
1 or 2	3.1	1.3	1.3	0.4	Q	1.1	2.0	13.4
3	9.2	2.9	3.4	2.3	0.6	2.5	5.0	9.3
4	18.3	3.5	7.0	5.6	2.2	3.7	8.3	6.9
5	21.3	2.7	7.5	7.0	3.9	3.4	8.3	6.1
6	20.0	1.9	5.6	6.8	5.7	2.5	6.2	6.6
7	14.2	0.5	2.7	5.1	5.9	0.9	2.5	8.6
8	8.4	0.2	0.9	2.5	4.8	0.2	1.0	12.6
9 or More	7.0	Q	0.7	1.3	4.8	0.3	0.8	13.9
Bedrooms								
None or 1	13.2	4.4	4.8	3.0	0.9	3.6	7.3	8.1
2	28.8	5.0	10.8	9.0	4.0	5.1	12.2	5.3
3	41.0	3.1	10.7	13.8	13.4	4.5	11.1	4.9
4 or More	18.6	0.9	2.8	5.3	9.6	1.4	3.5	7.9

See footnotes at end of table.

Table HC1-3a. Housing Unit Characteristics by Household Income, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.4	1.0	0.9	1.1	1.3	1.0	
Other Rooms (Excluding Bathrooms)								
None or 1	5.1	1.7	2.1	1.0	0.2	1.5	2.9	11.6
2	38.6	7.4	14.0	11.9	5.3	8.1	17.3	4.2
3	31.0	3.1	9.0	10.3	8.6	3.9	10.0	5.5
4	17.6	0.7	3.1	5.7	8.1	0.7	2.6	8.0
5 or More	9.2	0.3	1.0	2.2	5.7	0.4	1.2	12.7
Full Bathrooms								
None or 1	59.4	11.5	21.3	17.8	8.7	12.0	27.0	3.4
2	35.9	1.6	7.3	12.0	15.1	2.4	6.5	5.5
3 or More	6.2	Q	0.5	1.3	4.2	0.3	0.6	17.7
Half Bathrooms								
None	73.0	11.9	23.4	22.6	15.2	12.7	28.4	3.0
1	26.5	1.3	5.5	7.9	11.7	1.8	5.4	6.5
2 or More	Q	Q	Q	Q	Q	Q	Q	NF
Number of Stories								
Single-Family Homes	73.7	6.6	18.6	23.4	25.1	7.8	20.1	3.6
1 Story	41.1	5.0	12.7	13.3	10.2	5.6	13.6	5.0
2 Stories	26.9	1.4	5.1	8.8	11.7	1.9	5.7	6.9
3 Stories	3.2	Q	0.5	0.7	1.9	Q	0.6	16.4
Split-Level	2.4	Q	0.3	0.7	1.4	Q	Q	19.9
Other	Q	Q	Q	Q	Q	Q	Q	NF
Mobile Homes	6.3	1.0	3.2	1.7	0.5	1.4	3.0	13.2
Number of Floors in Apartment Buildings								
1 or 2 Floors	10.9	2.8	4.3	3.0	0.8	2.8	5.8	10.5
3 or 4 Floors	5.4	1.0	1.9	1.8	0.8	1.1	2.3	18.5
5 to 10 Floors	2.1	0.8	0.5	0.5	0.3	0.7	1.2	19.9
11 to 20 Floors	0.8	0.5	0.1	Q	Q	0.4	0.6	30.9
More than 20 Floors	0.2	Q	Q	Q	Q	Q	Q	48.6
Don't Know/No Answer	2.0	0.6	0.5	0.6	0.3	0.5	1.0	21.1
Foundation/Basement of Single-Family Homes (More than one may apply)								
Basement	33.2	2.1	7.2	11.1	12.9	2.3	7.8	6.3
Crawlspace	22.5	2.6	6.8	7.2	5.9	3.1	7.1	7.5
Concrete Slab	23.0	2.1	5.7	6.6	8.5	2.6	6.1	7.3
Not Asked (Mobile Homes and Multi-Family Units)	27.7	6.7	10.6	7.7	2.8	6.9	14.0	6.0
Garage/Carport								
Yes	54.5	3.3	12.4	17.5	21.3	3.7	11.6	4.6
1-Car Garage	16.2	1.5	4.8	5.6	4.3	1.5	4.9	8.0
2-Car Garage	29.7	1.1	5.2	9.4	14.1	1.5	4.3	7.4
3-Car Garage	2.8	Q	0.3	0.7	1.7	Q	0.4	18.8
Covered Carport	6.4	0.7	2.2	2.1	1.5	0.7	2.1	11.7
No	25.6	4.4	9.4	7.6	4.3	5.5	11.5	6.1
Not Asked (Apartments)	21.4	5.7	7.4	6.0	2.3	5.5	11.0	7.0

See footnotes at end of table.

Table HC1-3a. Housing Unit Characteristics by Household Income, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.4	1.0	0.9	1.1	1.3	1.0	
Fuels Used For Any Use (more than one often used)								
Electricity	101.4	13.3	29.1	31.1	27.9	14.6	34.0	2.7
Natural Gas	61.9	8.0	17.0	19.0	17.9	9.1	20.4	4.3
Wood	15.0	0.7	3.0	4.7	6.7	1.1	3.0	9.4
Fuel Oil	10.0	1.3	2.5	3.2	3.0	1.4	3.4	10.4
LPG	8.1	1.0	2.4	2.7	1.9	1.2	2.8	12.7
Kerosene	3.5	0.4	1.2	1.2	0.6	0.6	1.4	14.5
Solar	0.7	Q	Q	0.2	0.3	Q	Q	39.2
Main Heating Fuel								
Natural Gas	53.5	6.2	14.7	16.6	15.9	7.2	16.8	4.8
Electricity	29.6	4.4	9.1	8.5	7.6	4.4	10.4	6.6
Fuel Oil	9.5	1.3	2.4	3.0	2.8	1.3	3.3	10.4
LPG	4.6	0.6	1.5	1.8	0.8	0.7	1.6	14.9
Wood	2.2	0.3	0.8	0.6	0.5	0.3	0.8	18.3
Kerosene	1.0	0.2	0.3	0.4	Q	0.3	0.5	24.0
Solar	Q	Q	Q	Q	Q	Q	Q	NF
Other/None	1.2	0.3	0.4	0.2	0.2	0.4	0.7	24.8

¹ Below 150 percent of poverty line or 60 percent of median State income.

² One of five climatically distinct areas, determined according to the 30-year average (1961-1990) of the annual heating and cooling degree-days. For this report, the heating or cooling degree-days are a measure of how cold or how hot a location is over a period of one year, relative to a base temperature of 65 degrees Fahrenheit. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station.

³ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

⁴ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

⁵ Based on the household respondent's description rather than the Federal Government definition.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC1-4a. Housing Unit Characteristics by Type of Housing Unit,
Million U.S. Households, 1997**

Housing Unit Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.5	1.7	1.3	1.8	
Total	101.5	73.7	5.6	15.8	6.3	4.0
Census Region and Division						
Northeast	19.7	13.8	1.7	3.8	0.5	7.9
New England	5.3	3.8	0.7	0.7	0.1	15.5
Middle Atlantic	14.4	10.0	1.0	3.1	0.4	8.9
Midwest	24.1	18.4	1.7	2.8	1.1	8.1
East North Central	16.9	12.5	1.5	2.2	0.7	8.3
West North Central	7.2	5.9	0.3	0.6	0.4	17.3
South	35.9	26.7	1.4	4.8	3.0	7.8
South Atlantic	18.7	13.6	0.7	2.9	1.5	11.7
East South Central	6.3	4.8	0.3	0.4	0.8	14.6
West South Central	10.8	8.2	0.4	1.5	0.7	9.5
West	21.8	14.9	0.8	4.4	1.7	9.3
Mountain	6.2	4.5	0.2	0.8	0.7	15.8
Pacific	15.6	10.4	0.6	3.5	1.1	11.5
Metropolitan Statistical Area						
Urban	78.6	55.8	4.5	14.8	3.6	5.1
Central City	36.8	23.8	3.0	8.8	1.2	8.9
Suburban	41.9	32.0	1.5	6.0	2.3	9.0
Rural	22.8	18.0	1.1	1.0	2.7	8.6
Climate Zone¹						
Fewer than 2,000 CDD and--						
More than 7,000 HDD	9.3	7.7	0.5	0.6	0.5	25.4
5,500 to 7,000 HDD	28.0	20.5	2.2	4.0	1.4	12.7
4,000 to 5,499 HDD	22.5	15.8	1.3	4.3	1.1	13.9
Fewer than 4,000 HDD	19.5	13.7	0.8	3.5	1.5	14.2
2,000 CDD or More and --						
Fewer than 4,000 HDD	22.2	16.0	0.8	3.4	2.0	12.9
Estimated Heated Floorspace Category (square feet)²						
Fewer than 600	7.9	1.9	1.3	3.7	0.9	10.3
600 to 999	21.5	9.5	2.3	7.2	2.5	7.2
1,000 to 1,599	30.4	25.0	0.9	2.6	1.8	8.5
1,600 to 1,999	15.3	14.4	Q	0.3	0.4	10.1
2,000 to 2,399	7.9	7.7	Q	Q	Q	10.6
2,400 to 2,999	5.3	5.2	Q	Q	Q	14.6
3,000 or More	4.1	4.0	Q	Q	Q	21.0
No Estimate Provided	9.1	5.9	0.9	1.9	0.4	12.9
Year of Construction						
1939 or Before	18.7	14.5	1.8	2.4	Q	10.1
1940 to 1949	9.2	7.3	0.8	1.1	Q	11.2
1950 to 1959	12.5	10.7	0.4	1.3	0.2	10.8
1960 to 1969	14.4	9.9	0.9	2.7	0.9	9.8
1970 to 1979	19.6	12.3	0.9	4.2	2.1	8.0
1980 to 1989	17.3	11.9	0.7	3.0	1.7	11.4
1990 to 1997 ³	9.7	7.1	Q	1.1	1.3	16.2
Urban/Rural Location⁴						
City	48.2	31.4	3.9	11.2	1.8	6.8
Town	18.2	13.8	1.2	2.2	1.0	11.9
Suburbs	18.6	15.4	0.4	2.0	0.7	12.5
Rural or Open Country	16.5	13.2	0.1	0.4	2.8	12.9

See footnotes at end of table.

**Table HC1-4a. Housing Unit Characteristics by Type of Housing Unit,
Million U.S. Households, 1997 (Continued)**

Housing Unit Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.5	1.7	1.3	1.8	
Total Number of Rooms (Excluding Bathrooms)						
1 or 2	3.1	0.4	0.3	2.1	0.2	18.4
3	9.2	1.6	1.6	5.6	0.4	10.2
4	18.3	7.8	2.0	5.8	2.7	7.9
5	21.3	16.4	1.0	1.8	2.1	7.9
6	20.0	18.5	0.5	0.5	0.6	10.1
7	14.2	13.8	Q	Q	0.2	10.3
8	8.4	8.3	Q	Q	Q	11.8
9 or More	7.0	6.9	Q	Q	Q	12.4
Bedrooms						
None or 1	13.2	2.6	2.1	8.1	0.4	9.1
2	28.8	16.4	2.5	6.7	3.1	6.8
3	41.0	36.8	0.8	0.8	2.6	7.3
4 or More	18.6	17.9	0.2	0.2	0.3	14.2
Other Rooms (Excluding Bathrooms)						
None or 1	5.1	1.4	0.4	2.5	0.7	12.6
2	38.6	19.9	3.6	10.9	4.2	5.4
3	31.0	26.5	1.3	2.1	1.1	7.7
4	17.6	16.9	0.3	0.2	0.2	14.3
5 or More	9.2	9.1	Q	Q	Q	10.7
Full Bathrooms						
None or 1	59.4	37.3	5.1	13.5	3.5	4.5
2	35.9	30.3	0.5	2.3	2.8	8.1
3 or More	6.2	6.1	Q	Q	Q	17.2
Half Bathrooms						
None	73.0	48.2	5.1	14.0	5.7	4.6
1	26.5	23.6	0.5	1.8	0.6	9.0
2 or More	Q	Q	Q	Q	Q	NF
Number of Stories						
Single-Family Homes	73.7	73.7	--	--	--	2.8
1 Story	41.1	41.1	--	--	--	5.7
2 Stories	26.9	26.9	--	--	--	7.2
3 Stories	3.2	3.2	--	--	--	18.0
Split-Level	2.4	2.4	--	--	--	23.2
Other	Q	Q	--	--	--	NF
Mobile Homes	6.3	Q	--	--	6.3	9.1
Number of Floors in Apartment Buildings						
1 or 2 Floors	10.9	--	4.1	6.8	--	7.9
3 or 4 Floors	5.4	--	0.7	4.7	--	17.1
5 to 10 Floors	2.1	--	Q	2.0	--	14.7
11 to 20 Floors	0.8	--	Q	0.8	--	27.3
More than 20 Floors	0.2	--	Q	0.2	--	36.2
Don't Know/No Answer	2.0	--	0.8	1.2	--	17.2

See footnotes at end of table.

Table HC1-4a. Housing Unit Characteristics by Type of Housing Unit, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.5	1.7	1.3	1.8	
Foundation/Basement of Single-Family Homes (More than one may apply)						
Basement	33.2	33.2	--	--	--	7.1
Crawlspace	22.5	22.5	--	--	--	9.5
Concrete Slab	23.0	23.0	--	--	--	8.8
Not Asked (Mobile Homes and Multi-Family Units)	27.7	--	5.6	15.8	6.3	5.2
Garage/Carport						
Yes	54.5	52.9	--	--	1.6	5.0
1-Car Garage	16.2	16.0	--	--	0.3	11.5
2-Car Garage	29.7	29.4	--	--	0.3	9.4
3-Car Garage	2.8	2.7	--	--	Q	18.0
Covered Carport	6.4	5.4	--	--	1.0	13.0
No	25.6	20.8	--	--	4.7	7.3
Not Asked (Apartments)	21.4	Q	5.6	15.8	Q	5.6
Fuels Used For Any Use (more than one often used)						
Electricity	101.4	73.7	5.6	15.8	6.3	4.0
Natural Gas	61.9	47.0	3.8	8.8	2.3	6.1
Wood	15.0	14.0	Q	0.2	0.7	12.9
Fuel Oil	10.0	7.5	0.5	1.8	Q	14.1
LPG	8.1	6.2	Q	Q	1.7	14.5
Kerosene	3.5	2.7	Q	Q	0.6	15.1
Solar	0.7	0.6	Q	Q	Q	52.3
Main Heating Fuel						
Natural Gas	53.5	42.5	3.4	5.5	2.1	7.2
Electricity	29.6	17.7	1.6	7.9	2.4	8.6
Fuel Oil	9.5	7.1	0.5	1.8	Q	14.1
LPG	4.6	3.5	Q	Q	1.0	17.0
Wood	2.2	1.9	Q	Q	0.3	21.3
Kerosene	1.0	0.5	Q	Q	0.4	26.4
Solar	Q	Q	Q	Q	Q	NF
Other/None	1.2	0.5	Q	0.5	Q	32.6

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

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

³ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

⁴ Based on the household respondent's description rather than the Federal Government definition.

-- = 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" 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 of the 1997 Residential Energy Consumption Survey.

Table HC1-5a. Housing Unit Characteristics by Type of Owner-Occupied Housing Unit, Million U.S. Households, 1997

Housing Unit Characteristics	Total Owner-Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.4	2.2	2.1	1.3	
Total	68.5	61.1	0.9	1.2	5.3	6.2
Census Region and Division						
Northeast	12.8	11.8	0.3	0.3	0.4	12.1
New England	3.6	3.3	0.1	Q	Q	18.8
Middle Atlantic	9.1	8.4	0.2	0.2	0.3	12.5
Midwest	17.3	15.8	0.4	Q	1.0	11.7
East North Central	11.8	10.7	0.3	Q	0.7	12.8
West North Central	5.5	5.1	Q	Q	0.3	22.3
South	25.4	22.4	Q	0.4	2.5	9.0
South Atlantic	13.0	11.6	Q	Q	1.1	11.9
East South Central	5.0	4.2	Q	Q	0.7	11.4
West South Central	7.4	6.7	Q	Q	0.7	11.9
West	13.1	11.2	Q	0.4	1.5	13.2
Mountain	4.2	3.5	Q	Q	0.5	19.7
Pacific	8.9	7.6	Q	0.3	0.9	16.0
Metropolitan Statistical Area						
Urban	50.9	46.1	0.7	1.0	3.1	7.9
Central City	20.6	18.5	0.5	0.5	1.1	15.8
Suburban	30.3	27.6	0.3	0.5	2.0	13.2
Rural	17.5	15.1	0.2	0.2	2.1	12.6
Climate Zone¹						
Fewer than 2,000 CDD and--						
More than 7,000 HDD	7.0	6.6	Q	Q	0.4	37.7
5,500 to 7,000 HDD	19.3	17.4	0.5	0.3	1.1	19.5
4,000 to 5,499 HDD	14.8	13.3	0.2	0.4	0.9	19.3
Fewer than 4,000 HDD	12.0	10.6	Q	Q	1.2	26.5
2,000 CDD or More and --						
Fewer than 4,000 HDD	15.3	13.3	Q	0.3	1.6	19.2
Estimated Heated Floorspace Category (square feet)²						
Fewer than 600	1.7	0.7	Q	Q	0.7	28.8
600 to 999	8.5	5.8	0.3	0.4	2.0	13.8
1,000 to 1,599	22.9	20.7	0.2	0.3	1.7	11.3
1,600 to 1,999	13.6	13.0	Q	Q	0.4	11.9
2,000 to 2,399	7.3	7.2	Q	Q	Q	13.7
2,400 to 2,999	5.1	5.1	Q	Q	Q	18.5
3,000 or More	4.1	4.0	Q	Q	Q	26.2
No Estimate Provided	5.2	4.6	Q	Q	0.3	19.4
Year of Construction						
1939 or Before	12.2	11.6	0.5	Q	Q	13.2
1940 to 1949	5.8	5.6	Q	Q	Q	18.6
1950 to 1959	8.9	8.7	Q	Q	Q	14.9
1960 to 1969	9.2	8.2	Q	0.2	0.8	15.3
1970 to 1979	12.8	10.3	0.2	0.6	1.7	13.2
1980 to 1989	12.0	10.4	Q	Q	1.4	14.4
1990 to 1997 ³	7.6	6.3	Q	Q	1.2	20.3
Urban/Rural Location⁴						
City	27.4	24.5	0.6	0.8	1.5	11.6
Town	12.5	11.4	0.2	Q	0.8	17.3
Suburbs	14.6	13.6	Q	0.2	0.7	15.8
Rural or Open Country	13.9	11.6	Q	Q	2.2	13.0

See footnotes at end of table.

Table HC1-5a. Housing Unit Characteristics by Type of Owner-Occupied Housing Unit, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total Owner-Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.4	2.2	2.1	1.3	
Total Number of Rooms (Excluding Bathrooms)						
1 or 2	0.3	Q	Q	Q	0.1	51.5
3	1.2	0.6	Q	0.3	0.3	26.4
4	7.4	4.5	0.4	0.5	2.1	12.8
5	15.0	12.7	0.2	0.2	1.8	12.6
6	16.7	16.0	Q	Q	0.6	11.0
7	13.0	12.7	Q	Q	0.2	13.6
8	8.0	7.9	Q	Q	Q	14.5
9 or More	6.8	6.7	Q	Q	Q	16.3
Bedrooms						
None or 1	2.0	1.1	Q	0.4	0.3	21.9
2	14.7	11.2	0.5	0.6	2.5	11.2
3	34.8	32.3	0.2	Q	2.2	8.5
4 or More	17.0	16.6	Q	Q	0.3	12.2
Other Rooms (Excluding Bathrooms)						
None or 1	1.3	0.7	Q	Q	0.5	30.7
2	18.5	13.8	0.5	0.7	3.5	10.2
3	23.9	22.3	0.2	0.3	1.0	12.1
4	16.0	15.6	Q	Q	0.2	14.3
5 or More	8.8	8.7	Q	Q	Q	14.0
Full Bathrooms						
None or 1	31.7	27.7	0.6	0.8	2.6	8.8
2	30.8	27.5	0.3	0.4	2.6	9.9
3 or More	5.9	5.9	Q	Q	Q	22.4
Half Bathrooms						
None	44.7	38.2	0.8	1.0	4.8	7.8
1	22.0	21.2	Q	Q	0.5	9.7
2 or More	Q	Q	Q	Q	Q	NF
Number of Stories						
Single-Family Homes	61.1	61.1	--	--	--	4.4
1 Story	33.3	33.3	--	--	--	7.8
2 Stories	22.9	22.9	--	--	--	10.3
3 Stories	2.7	2.7	--	--	--	27.1
Split-Level	2.2	2.2	--	--	--	29.7
Other	Q	Q	--	--	--	NF
Mobile Homes	5.3	Q	--	--	5.3	13.2
Number of Floors in Apartment Buildings						
1 or 2 Floors	0.9	--	0.5	0.3	--	21.9
3 or 4 Floors	0.5	--	Q	0.4	--	39.4
5 to 10 Floors	0.2	--	Q	0.2	--	23.5
11 to 20 Floors	Q	--	Q	Q	--	Q
More than 20 Floors	Q	--	Q	Q	--	Q
Don't Know/No Answer	0.4	--	0.3	Q	--	21.1

See footnotes at end of table.

Table HC1-5a. Housing Unit Characteristics by Type of Owner-Occupied Housing Unit, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total Owner-Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.4	2.2	2.1	1.3	
Foundation/Basement of Single-Family Homes (More than one may apply)						
Basement	28.9	28.9	--	--	--	9.8
Crawlspace	18.2	18.2	--	--	--	11.6
Concrete Slab	18.5	18.5	--	--	--	12.7
Not Asked (Mobile Homes and Multi-Family Units)	7.3	--	0.9	1.2	5.3	10.3
Garage/Carport						
Yes	48.5	47.0	--	--	1.5	7.4
1-Car Garage	13.5	13.3	--	--	0.2	16.0
2-Car Garage	27.3	27.1	--	--	0.3	12.5
3-Car Garage	2.7	2.7	--	--	Q	22.3
Covered Carport	5.5	4.6	--	--	1.0	18.0
No	17.9	14.1	--	--	3.8	11.4
Not Asked (Apartments)	2.1	--	0.9	1.2	--	14.9
Fuels Used For Any Use (more than one often used)						
Electricity	68.4	61.1	0.9	1.2	5.3	6.2
Natural Gas	41.9	38.4	0.8	0.6	2.0	9.7
Wood	13.2	12.5	Q	Q	0.6	13.4
Fuel Oil	7.0	6.7	Q	0.2	Q	18.1
LPG	6.7	5.4	Q	Q	1.3	18.6
Kerosene	2.7	2.2	Q	Q	0.4	21.4
Solar	0.6	0.6	Q	Q	Q	68.5
Main Heating Fuel						
Natural Gas	37.8	34.9	0.8	0.3	1.8	11.2
Electricity	17.3	14.6	Q	0.6	2.0	13.2
Fuel Oil	6.6	6.3	Q	0.2	Q	17.7
LPG	3.7	2.9	Q	Q	0.8	22.9
Wood	1.8	1.6	Q	Q	0.2	30.6
Kerosene	0.7	0.4	Q	Q	0.3	40.8
Solar	Q	Q	Q	Q	Q	NF
Other/None	0.5	0.4	Q	Q	Q	NF

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

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

³ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

⁴ Based on the household respondent's description rather than the Federal Government definition.

-- = 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" 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 of the 1997 Residential Energy Consumption Survey.

Table HC1-6a. Housing Unit Characteristics by Type of Rented Housing Unit, Million U.S. Households, 1997

Housing Unit Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.6	0.7	1.3	0.9	2.1	
Total	33.0	12.6	4.7	14.6	1.1	6.3
Census Region and Division						
Northeast	7.0	2.0	1.4	3.5	Q	10.3
New England	1.7	0.4	0.6	0.6	Q	21.8
Middle Atlantic	5.3	1.5	0.8	2.9	Q	11.8
Midwest	6.8	2.7	1.3	2.7	0.1	16.2
East North Central	5.1	1.8	1.1	2.1	Q	15.8
West North Central	1.7	0.8	0.2	0.6	Q	32.7
South	10.5	4.2	1.3	4.5	0.5	11.6
South Atlantic	5.7	2.1	0.6	2.7	0.4	15.9
East South Central	1.4	0.6	0.3	0.4	Q	25.9
West South Central	3.4	1.5	0.4	1.4	Q	16.0
West	8.8	3.7	0.8	4.0	0.3	12.1
Mountain	2.0	0.9	0.2	0.8	Q	23.5
Pacific	6.8	2.8	0.6	3.2	0.2	15.1
Metropolitan Statistical Area						
Urban	27.7	9.7	3.8	13.8	0.4	7.3
Central City	16.2	5.3	2.5	8.3	0.1	10.6
Suburban	11.5	4.5	1.2	5.5	0.3	13.7
Rural	5.3	2.9	0.9	0.9	0.6	14.8
Climate Zone¹						
Fewer than 2,000 CDD and--						
More than 7,000 HDD	2.2	1.2	0.4	0.6	Q	31.2
5,500 to 7,000 HDD	8.7	3.1	1.7	3.7	0.2	15.6
4,000 to 5,499 HDD	7.7	2.5	1.1	3.9	0.2	15.8
Fewer than 4,000 HDD	7.5	3.1	0.8	3.3	0.2	14.6
2,000 CDD or More and --						
Fewer than 4,000 HDD	6.9	2.7	0.7	3.1	0.3	15.2
Estimated Heated Floorspace Category (square feet)²						
Fewer than 600	6.2	1.2	1.2	3.5	0.2	11.7
600 to 999	13.0	3.7	2.0	6.8	0.5	8.9
1,000 to 1,599	7.4	4.4	0.6	2.3	0.1	14.7
1,600 to 1,999	1.7	1.4	Q	0.3	Q	18.6
2,000 to 2,399	0.6	0.5	Q	Q	Q	30.1
2,400 to 2,999	0.2	0.2	Q	Q	Q	47.9
3,000 or More	Q	Q	Q	Q	Q	NF
No Estimate Provided	4.0	1.3	0.8	1.8	Q	17.2
Year of Construction						
1939 or Before	6.5	2.8	1.3	2.3	Q	12.9
1940 to 1949	3.4	1.7	0.7	1.0	Q	15.2
1950 to 1959	3.7	2.0	0.4	1.2	Q	13.7
1960 to 1969	5.2	1.8	0.8	2.5	0.2	14.5
1970 to 1979	6.8	2.0	0.7	3.7	0.4	12.6
1980 to 1989	5.3	1.5	0.6	2.9	0.2	17.1
1990 to 1997 ³	2.1	0.8	Q	1.0	Q	29.1
Urban/Rural Location⁴						
City	20.8	6.8	3.2	10.4	0.3	9.0
Town	5.8	2.5	1.0	2.1	0.2	15.9
Suburbs	3.9	1.8	0.3	1.8	Q	20.5
Rural or Open Country	2.5	1.5	0.1	0.4	0.5	19.5

See footnotes at end of table.

Table HC1-6a. Housing Unit Characteristics by Type of Rented Housing Unit, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.6	0.7	1.3	0.9	2.1	
Total Number of Rooms (Excluding Bathrooms)						
1 or 2	2.8	0.3	0.3	2.1	Q	18.9
3	8.0	1.0	1.5	5.3	Q	11.5
4	10.9	3.4	1.6	5.3	0.6	10.4
5	6.3	3.6	0.8	1.6	0.2	12.2
6	3.3	2.5	0.4	0.4	Q	16.8
7	1.2	1.1	Q	Q	Q	18.3
8	0.4	0.4	Q	Q	Q	33.7
9 or More	0.3	0.3	Q	Q	Q	40.9
Bedrooms						
None or 1	11.2	1.5	2.0	7.7	Q	9.2
2	14.1	5.3	2.1	6.1	0.7	9.5
3	6.2	4.5	0.5	0.8	0.3	12.9
4 or More	1.6	1.3	Q	Q	Q	19.5
Other Rooms (Excluding Bathrooms)						
None or 1	3.8	0.7	0.4	2.5	0.2	15.5
2	20.2	6.1	3.1	10.2	0.8	7.8
3	7.1	4.2	1.1	1.8	Q	11.9
4	1.6	1.3	Q	0.2	Q	24.8
5 or More	0.4	0.4	Q	Q	Q	34.6
Full Bathrooms						
None or 1	27.7	9.6	4.4	12.7	0.9	6.8
2	5.1	2.8	0.3	1.9	0.2	16.2
3 or More	0.2	0.2	Q	Q	Q	47.7
Half Bathrooms						
None	28.3	10.0	4.4	13.0	0.9	6.5
1	4.5	2.4	0.3	1.6	0.2	16.8
2 or More	Q	Q	Q	Q	Q	NF
Number of Stories						
Single-Family Homes	12.6	12.6	--	--	--	7.1
1 Story	7.8	7.8	--	--	--	8.9
2 Stories	4.1	4.1	--	--	--	11.7
3 Stories	0.5	0.5	--	--	--	31.4
Split-Level	0.2	0.2	--	--	--	71.1
Other	Q	Q	--	--	--	NF
Mobile Homes	1.1	Q	--	--	1.1	14.2
Number of Floors in Apartment Buildings						
1 or 2 Floors	10.0	--	3.5	6.5	--	9.9
3 or 4 Floors	4.9	--	0.6	4.3	--	19.6
5 to 10 Floors	1.8	--	Q	1.8	--	17.2
11 to 20 Floors	0.7	--	Q	0.7	--	30.8
More than 20 Floors	0.2	--	Q	0.2	--	40.1
Don't Know/No Answer	1.6	--	0.5	1.1	--	25.3

See footnotes at end of table.

Table HC1-6a. Housing Unit Characteristics by Type of Rented Housing Unit, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.6	0.7	1.3	0.9	2.1	
Foundation/Basement of Single-Family Homes (More than one may apply)						
Basement	4.3	4.3	--	--	--	10.9
Crawlspace	4.3	4.3	--	--	--	14.2
Concrete Slab	4.5	4.5	--	--	--	11.5
Not Asked (Mobile Homes and Multi-Family Units)	20.4	--	4.7	14.6	1.1	6.9
Garage/Carport						
Yes	6.0	5.9	--	--	0.1	11.8
1-Car Garage	2.8	2.7	--	--	Q	17.5
2-Car Garage	2.3	2.3	--	--	Q	15.6
3-Car Garage	Q	Q	--	--	Q	NF
Covered Carport	0.9	0.9	--	--	Q	23.0
No	7.7	6.7	--	--	0.9	8.1
Not Asked (Apartments)	19.3	--	4.7	14.6	--	6.8
Fuels Used For Any Use (more than one often used)						
Electricity	33.0	12.6	4.7	14.6	1.1	6.3
Natural Gas	20.0	8.5	3.0	8.2	0.3	9.3
Wood	1.9	1.5	Q	0.2	Q	23.1
Fuel Oil	3.0	0.8	0.4	1.7	Q	17.1
LPG	1.3	0.8	Q	Q	0.4	21.8
Kerosene	0.8	0.5	Q	Q	0.1	28.1
Solar	Q	Q	Q	Q	Q	NF
Main Heating Fuel						
Natural Gas	15.7	7.6	2.7	5.1	0.3	10.7
Electricity	12.3	3.1	1.5	7.3	0.3	11.4
Fuel Oil	2.9	0.8	0.4	1.6	Q	17.4
LPG	0.9	0.6	Q	Q	0.2	24.8
Wood	0.4	0.3	Q	Q	Q	34.3
Kerosene	0.3	0.1	Q	Q	Q	57.5
Solar	Q	Q	Q	Q	Q	NF
Other/None	0.7	0.1	Q	0.5	Q	NF

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

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

³ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

⁴ Based on the household respondent's description rather than the Federal Government definition.

-- = 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" 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 of the 1997 Residential Energy Consumption Survey.

**Table HC1-7a. Housing Unit Characteristics by Four Most Populated States,
Million U.S. Households, 1997**

Housing Unit Characteristics	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
		0.4	1.1	1.1	1.2	
RSE Column Factor:	0.4	1.1	1.1	1.2	1.6	
Total	101.5	6.8	11.5	7.0	5.9	NF
Census Region and Division						
Northeast	19.7	6.8	--	--	--	NF
New England	5.3	Q	--	--	--	NF
Middle Atlantic	14.4	6.8	--	--	--	NF
Midwest	24.1	--	--	--	--	NF
East North Central	16.9	--	--	--	--	NF
West North Central	7.2	--	--	--	--	NF
South	35.9	--	--	7.0	5.9	NF
South Atlantic	18.7	--	--	Q	5.9	NF
East South Central	6.3	--	--	Q	Q	NF
West South Central	10.8	--	--	7.0	Q	NF
West	21.8	--	11.5	--	--	NF
Mountain	6.2	--	Q	--	--	NF
Pacific	15.6	--	11.5	--	--	NF
Metropolitan Statistical Area						
Urban	78.6	6.2	11.0	5.8	5.4	1.2
Central City	36.8	3.4	4.5	3.2	2.6	10.7
Suburban	41.9	2.8	6.5	2.6	2.9	10.1
Rural	22.8	0.6	0.5	1.2	0.5	10.5
Climate Zone¹						
Fewer than 2,000 CDD and--						
More than 7,000 HDD	9.3	0.5	Q	Q	Q	20.3
5,500 to 7,000 HDD	28.0	2.4	Q	Q	Q	11.2
4,000 to 5,499 HDD	22.5	3.9	0.6	Q	Q	9.1
Fewer than 4,000 HDD	19.5	Q	9.9	Q	Q	4.9
2,000 CDD or More and --						
Fewer than 4,000 HDD	22.2	Q	1.0	6.4	5.9	10.1
Estimated Heated Floorspace Category (square feet)²						
Fewer than 600	7.9	0.9	1.4	0.5	0.3	14.4
600 to 999	21.5	1.6	2.7	1.4	0.8	9.8
1,000 to 1,599	30.4	1.7	3.0	2.0	2.5	7.0
1,600 to 1,999	15.3	0.7	1.5	1.1	0.9	11.9
2,000 to 2,399	7.9	0.4	1.0	0.7	0.4	16.0
2,400 to 2,999	5.3	0.3	0.6	0.4	0.3	19.3
3,000 or More	4.1	0.2	0.2	Q	0.3	28.1
No Estimate Provided	9.1	1.0	1.0	0.4	0.4	18.2
Ownership of Unit						
Owned	68.5	3.8	6.2	4.5	4.4	4.1
Rented	33.0	3.1	5.3	2.5	1.5	7.1

See footnotes at end of table.

Table HC1-7a. Housing Unit Characteristics by Four Most Populated States, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.1	1.1	1.2	1.6	
Type and Ownership of Housing Unit						
Single-Family Detached	63.8	3.0	6.5	5.0	3.7	4.3
Owned	55.6	2.8	5.2	4.1	3.4	4.8
Rented	8.1	0.2	1.4	0.9	0.3	16.2
Single-Family Attached	9.9	0.9	1.3	0.2	0.8	21.8
Owned	5.5	0.5	0.5	Q	0.7	25.1
Rented	4.5	0.3	0.8	0.2	Q	25.4
Multifamily (2 to 4 units)	5.6	0.5	0.5	0.3	Q	24.5
Owned	0.9	0.1	Q	Q	Q	40.8
Rented	4.7	0.4	0.5	0.3	Q	23.5
Multifamily (5 or more units)	15.8	2.3	2.7	1.2	1.0	12.1
Owned	1.2	0.2	Q	Q	Q	24.6
Rented	14.6	2.1	2.6	1.2	0.8	12.5
Mobile Home	6.3	Q	0.5	0.3	Q	28.6
Owned	5.3	Q	0.4	0.3	0.1	27.7
Rented	1.1	Q	Q	Q	Q	36.5
Year of Construction						
1939 or Before	18.7	2.5	1.1	0.6	0.3	11.4
1940 to 1949	9.2	0.7	1.7	0.7	0.1	14.9
1950 to 1959	12.5	1.1	1.7	0.7	0.7	11.3
1960 to 1969	14.4	0.9	1.9	1.4	0.5	11.9
1970 to 1979	19.6	0.7	2.2	1.5	1.6	10.8
1980 to 1989	17.3	0.4	2.1	1.2	2.0	16.5
1990 to 1997 ³	9.7	0.6	0.8	0.9	0.7	21.0
Urban/Rural Location⁴						
City	48.2	3.1	8.0	3.8	3.3	6.1
Town	18.2	0.9	1.5	1.2	0.6	20.2
Suburbs	18.6	1.8	1.2	1.2	1.5	15.9
Rural or Open Country	16.5	1.0	0.7	0.8	0.6	14.9
Total Number of Rooms (Excluding Bathrooms)						
1 or 2	3.1	0.3	0.9	0.3	Q	18.5
3	9.2	1.1	1.7	0.9	0.3	12.3
4	18.3	1.5	2.3	0.9	0.9	13.5
5	21.3	0.9	2.2	1.6	1.4	8.7
6	20.0	1.3	2.0	1.3	1.2	7.5
7	14.2	0.7	1.3	0.9	1.1	13.1
8	8.4	0.5	0.6	0.4	0.4	19.5
9 or More	7.0	0.5	0.5	0.6	0.4	17.3
Bedrooms						
None or 1	13.2	1.5	2.4	1.2	0.5	12.0
2	28.8	1.9	3.4	1.4	1.9	9.6
3	41.0	2.2	3.6	3.0	2.8	6.2
4 or More	18.6	1.2	2.0	1.3	0.8	12.2

See footnotes at end of table.

Table HC1-7a. Housing Unit Characteristics by Four Most Populated States, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Four Most Populated States					RSE Row Factors
	Total	New York	California	Texas	Florida	
	0.4	1.1	1.1	1.2	1.6	
Other Rooms (Excluding Bathrooms)						
None or 1	5.1	0.5	1.3	0.5	Q	17.5
2	38.6	2.8	5.0	2.8	1.7	6.4
3	31.0	2.0	3.3	2.0	2.3	6.6
4	17.6	1.0	1.3	1.1	1.2	10.5
5 or More	9.2	0.6	0.6	0.6	0.6	13.7
Full Bathrooms						
None or 1	59.4	5.0	6.2	3.7	2.0	5.0
2	35.9	1.7	4.2	2.7	3.3	7.7
3 or More	6.2	0.2	1.1	Q	0.6	20.4
Half Bathrooms						
None	73.0	4.7	9.0	5.4	4.7	3.2
1	26.5	2.0	2.4	1.5	1.2	9.0
2 or More	Q	Q	Q	Q	Q	NF
Number of Stories						
Single-Family Homes	73.7	3.8	7.8	5.2	4.6	4.5
1 Story	41.1	1.1	5.4	4.1	3.9	6.9
2 Stories	26.9	2.4	2.2	1.1	0.6	14.2
3 Stories	3.2	0.3	0.1	Q	Q	26.5
Split-Level	2.4	0.1	Q	Q	Q	24.5
Other	Q	Q	Q	Q	Q	NF
Mobile Homes	6.3	Q	0.5	0.3	Q	28.6
Number of Floors in Apartment Buildings						
1 or 2 Floors	10.9	Q	2.1	1.2	0.8	14.9
3 or 4 Floors	5.4	0.7	0.6	Q	Q	21.7
5 to 10 Floors	2.1	1.2	Q	Q	0.1	16.4
11 to 20 Floors	0.8	0.3	Q	Q	Q	14.2
More than 20 Floors	0.2	Q	(*)	Q	Q	21.9
Don't Know/No Answer	2.0	0.3	0.2	0.1	Q	25.3
Foundation/Basement of Single-Family Homes (More than one may apply)						
Basement	33.2	3.3	0.6	Q	Q	9.0
Crawlspace	22.5	0.3	3.5	1.8	0.6	15.8
Concrete Slab	23.0	0.5	4.0	3.4	3.9	8.5
Not Asked (Mobile Homes and Multi-Family Units)	27.7	3.0	3.7	1.8	1.4	10.6
Garage/Carport						
Yes	54.5	2.8	6.8	4.1	3.1	5.1
1-Car Garage	16.2	1.2	1.5	0.7	1.0	11.5
2-Car Garage	29.7	1.4	4.5	2.5	1.7	6.7
3-Car Garage	2.8	0.2	0.5	0.1	Q	23.2
Covered Carport	6.4	0.1	0.3	0.8	0.4	17.6
No	25.6	1.2	1.5	1.4	1.7	11.2
Not Asked (Apartments)	21.4	2.8	3.2	1.5	1.2	10.4

See footnotes at end of table.

Table HC1-7a. Housing Unit Characteristics by Four Most Populated States, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.1	1.1	1.2	1.6	
Fuels Used For Any Use (more than one often used)						
Electricity	101.4	6.8	11.5	7.0	5.9	NF
Natural Gas	61.9	5.1	9.7	4.7	1.2	5.9
Wood	15.0	0.8	2.1	0.9	0.7	15.8
Fuel Oil	10.0	2.9	Q	Q	Q	17.6
LPG	8.1	0.6	0.4	0.3	0.4	21.4
Kerosene	3.5	Q	0.1	Q	Q	26.0
Solar	0.7	Q	0.1	Q	Q	46.3
Main Heating Fuel						
Natural Gas	53.5	3.4	7.8	3.8	0.7	8.6
Electricity	29.6	0.4	2.9	2.9	4.7	10.7
Fuel Oil	9.5	2.7	Q	Q	Q	16.5
LPG	4.6	Q	0.2	0.3	0.1	22.7
Wood	2.2	0.2	0.3	Q	Q	24.2
Kerosene	1.0	0.1	0.1	Q	Q	34.2
Solar	Q	Q	Q	Q	Q	NF
Other/None	1.2	(*)	Q	Q	Q	22.4

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

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

³ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

⁴ Based on the household respondent's description rather than the Federal Government definition.

(*) = 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: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC1-8a. Housing Unit Characteristics by Urban/Rural Location,
Million U.S. Households, 1997**

Housing Unit Characteristics	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
RSE Column Factor:	0.5	0.8	1.4	1.3	1.3	
Total	101.5	48.2	18.2	18.6	16.5	4.1
Census Region and Division						
Northeast	19.7	6.9	5.2	4.3	3.4	8.9
New England	5.3	2.0	2.1	0.4	0.8	13.6
Middle Atlantic	14.4	4.9	3.1	3.9	2.6	10.7
Midwest	24.1	11.4	4.5	4.5	3.6	7.4
East North Central	16.9	8.9	2.5	3.1	2.4	8.5
West North Central	7.2	2.5	2.0	1.4	1.2	14.3
South	35.9	16.4	5.3	6.9	7.2	7.1
South Atlantic	18.7	8.3	2.3	4.4	3.7	10.4
East South Central	6.3	2.1	1.1	0.9	2.3	14.2
West South Central	10.8	6.0	1.9	1.6	1.3	13.2
West	21.8	13.5	3.2	2.9	2.2	9.6
Mountain	6.2	3.9	1.0	0.6	0.7	13.2
Pacific	15.6	9.6	2.3	2.3	1.5	11.8
Metropolitan Statistical Area						
Urban	78.6	42.4	10.1	17.6	8.6	4.8
Central City	36.8	27.8	2.4	4.6	1.9	9.3
Suburban	41.9	14.6	7.6	13.0	6.7	7.3
Rural	22.8	5.8	8.1	1.0	7.9	9.0
Climate Zone²						
Fewer than 2,000 CDD and--						
More than 7,000 HDD	9.3	3.7	2.4	0.9	2.2	20.5
5,500 to 7,000 HDD	28.0	12.3	5.6	5.9	4.3	12.3
4,000 to 5,499 HDD	22.5	8.5	4.3	5.7	4.0	12.7
Fewer than 4,000 HDD	19.5	11.4	3.2	2.1	2.8	16.0
2,000 CDD or More and --						
Fewer than 4,000 HDD	22.2	12.3	2.7	3.9	3.2	11.4
Estimated Heated Floorspace Category (square feet)³						
Fewer than 600	7.9	5.0	1.4	0.6	0.8	11.5
600 to 999	21.5	12.4	4.1	2.4	2.6	7.5
1,000 to 1,599	30.4	14.5	5.2	5.7	4.9	6.3
1,600 to 1,999	15.3	6.0	2.9	3.4	3.0	7.8
2,000 to 2,399	7.9	2.9	1.2	2.3	1.5	9.4
2,400 to 2,999	5.3	1.5	0.9	1.7	1.1	13.4
3,000 or More	4.1	1.3	0.7	1.3	0.9	15.9
No Estimate Provided	9.1	4.6	1.6	1.2	1.7	12.1
Ownership of Unit						
Owned	68.5	27.4	12.5	14.6	13.9	4.4
Rented	33.0	20.8	5.8	3.9	2.5	6.7

See footnotes at end of table.

Table HC1-8a. Housing Unit Characteristics by Urban/Rural Location, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
RSE Column Factor:	0.5	0.8	1.4	1.3	1.3	
Type and Ownership of Housing Unit						
Single-Family Detached	63.8	25.8	12.1	13.3	12.6	4.6
Owned	55.6	21.6	10.4	12.2	11.4	5.0
Rented	8.1	4.1	1.7	1.1	1.2	10.1
Single-Family Attached	9.9	5.6	1.7	2.1	0.5	13.1
Owned	5.5	2.9	0.9	1.4	0.2	17.7
Rented	4.5	2.7	0.8	0.7	0.3	16.4
Multifamily (2 to 4 units)	5.6	3.9	1.2	0.4	0.1	16.5
Owned	0.9	0.6	0.2	0.1	Q	32.0
Rented	4.7	3.2	1.0	0.3	0.1	17.3
Multifamily (5 or more units)	15.8	11.2	2.2	2.0	0.4	12.7
Owned	1.2	0.8	0.1	0.2	Q	32.7
Rented	14.6	10.4	2.1	1.8	0.4	13.2
Mobile Home	6.3	1.8	1.0	0.7	2.8	14.6
Owned	5.3	1.5	0.8	0.7	2.2	15.4
Rented	1.1	0.3	0.2	Q	0.5	26.0
Year of Construction						
1939 or Before	18.7	10.5	4.0	1.2	3.0	9.4
1940 to 1949	9.2	5.3	1.8	1.1	1.0	10.3
1950 to 1959	12.5	6.7	1.9	2.8	1.2	8.1
1960 to 1969	14.4	6.7	2.6	2.9	2.2	8.2
1970 to 1979	19.6	8.9	3.2	3.7	3.7	7.1
1980 to 1989	17.3	6.9	3.1	4.4	3.0	9.1
1990 to 1997 ⁴	9.7	3.2	1.6	2.5	2.4	12.8
Urban/Rural Location¹						
City	48.2	48.2	--	--	--	4.2
Town	18.2	--	18.2	--	--	7.5
Suburbs	18.6	--	--	18.6	--	6.3
Rural or Open Country	16.5	--	--	--	16.5	6.6
Total Number of Rooms (Excluding Bathrooms)						
1 or 2	3.1	2.3	0.4	Q	0.2	20.2
3	9.2	6.4	1.4	0.8	0.6	11.7
4	18.3	9.9	3.6	2.6	2.3	8.7
5	21.3	10.2	3.9	3.1	4.0	6.6
6	20.0	8.7	3.8	3.6	3.8	6.7
7	14.2	5.4	2.4	3.5	3.0	8.1
8	8.4	3.2	1.4	2.7	1.1	10.0
9 or More	7.0	2.3	1.3	2.0	1.4	10.9
Bedrooms						
None or 1	13.2	9.0	2.1	1.1	0.9	10.3
2	28.8	15.3	5.6	4.1	3.8	6.5
3	41.0	17.3	7.0	8.3	8.3	5.4
4 or More	18.6	6.6	3.5	5.1	3.4	7.2

See footnotes at end of table.

Table HC1-8a. Housing Unit Characteristics by Urban/Rural Location, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Urban/Rural Location ¹					RSE Row Factors
	Total	City	Town	Suburbs	Rural	
	0.5	0.8	1.4	1.3	1.3	
Other Rooms (Excluding Bathrooms)						
None or 1	5.1	3.3	0.7	0.4	0.7	14.9
2	38.6	20.7	7.1	5.2	5.7	5.5
3	31.0	14.4	5.7	5.7	5.2	5.9
4	17.6	6.5	3.1	4.9	3.0	7.6
5 or More	9.2	3.4	1.6	2.4	1.9	9.4
Full Bathrooms						
None or 1	59.4	31.5	11.4	7.8	8.6	4.6
2	35.9	14.6	5.9	8.5	6.9	5.6
3 or More	6.2	2.1	0.9	2.2	1.0	14.0
Half Bathrooms						
None	73.0	37.1	13.3	10.8	11.9	4.4
1	26.5	10.4	4.7	7.1	4.3	5.9
2 or More	Q	Q	Q	Q	Q	NF
Number of Stories						
Single-Family Homes	73.7	31.4	13.8	15.4	13.2	4.3
1 Story	41.1	18.6	7.4	7.3	7.7	6.0
2 Stories	26.9	10.6	5.4	6.1	4.9	7.1
3 Stories	3.2	1.4	0.6	1.0	0.2	15.9
Split-Level	2.4	0.7	0.4	1.0	0.3	20.6
Other	Q	Q	Q	Q	Q	NF
Mobile Homes	6.3	1.8	1.0	0.7	2.8	14.6
Number of Floors in Apartment Buildings						
1 or 2 Floors	10.9	7.5	2.0	1.1	0.3	13.3
3 or 4 Floors	5.4	4.0	0.7	0.7	Q	21.5
5 to 10 Floors	2.1	1.5	0.1	Q	Q	21.4
11 to 20 Floors	0.8	0.8	Q	Q	Q	33.5
More than 20 Floors	0.2	0.2	Q	Q	Q	43.4
Don't Know/No Answer	2.0	1.1	0.5	0.3	0.1	27.6
Foundation/Basement of Single-Family Homes (More than one may apply)						
Basement	33.2	12.2	6.9	7.5	6.5	6.9
Crawlspace	22.5	9.4	4.6	3.4	5.2	8.2
Concrete Slab	23.0	11.1	3.4	5.7	2.8	8.0
Not Asked (Mobile Homes and Multi-Family Units)	27.7	16.9	4.4	3.2	3.3	7.8
Garage/Carport						
Yes	54.5	22.5	10.0	12.7	9.2	5.1
1-Car Garage	16.2	7.2	3.6	3.4	2.1	8.7
2-Car Garage	29.7	11.9	4.9	7.7	5.1	6.9
3-Car Garage	2.8	0.9	0.5	0.6	0.8	16.6
Covered Carport	6.4	2.8	1.2	1.1	1.3	12.1
No	25.6	10.7	4.8	3.4	6.7	7.2
Not Asked (Apartments)	21.4	15.1	3.4	2.5	0.5	10.7

See footnotes at end of table.

Table HC1-8a. Housing Unit Characteristics by Urban/Rural Location, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
RSE Column Factor:	0.5	0.8	1.4	1.3	1.3	
Fuels Used For Any Use (more than one often used)						
Electricity	101.4	48.2	18.2	18.6	16.4	4.1
Natural Gas	61.9	35.4	10.5	12.2	3.8	5.7
Wood	15.0	3.5	2.8	3.7	5.0	8.9
Fuel Oil	10.0	3.2	2.4	1.6	2.8	11.7
LPG	8.1	0.9	1.4	0.6	5.1	14.8
Kerosene	3.5	1.0	0.6	0.5	1.4	16.2
Solar	0.7	0.2	Q	0.1	0.3	34.5
Main Heating Fuel						
Natural Gas	53.5	29.7	9.5	11.0	3.3	6.2
Electricity	29.6	13.9	5.0	5.5	5.2	7.2
Fuel Oil	9.5	3.1	2.3	1.5	2.6	11.6
LPG	4.6	0.4	0.9	0.2	3.1	19.1
Wood	2.2	0.3	0.3	0.1	1.5	21.2
Kerosene	1.0	0.2	0.2	Q	0.6	26.8
Solar	Q	Q	Q	Q	Q	NF
Other/None	1.2	0.7	Q	0.2	0.2	23.8

¹ Based on the household respondent's description rather than the Federal Government definition.

² One of five climatically distinct areas, determined according to the 30-year average (1961-1990) of the annual heating and cooling degree-days. For this report, the heating or cooling degree-days are a measure of how cold or how hot a location is over a period of one year, relative to a base temperature of 65 degrees Fahrenheit. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station.

³ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

⁴ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

-- = 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" 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 of the 1997 Residential Energy Consumption Survey.

**Table HC1-9a. Housing Unit Characteristics by Northeast Census Region,
Million U.S. Households, 1997**

Housing Unit Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.2	1.6	
Total	101.5	19.7	14.4	5.3	NF
Census Region and Division					
Northeast	19.7	19.7	14.4	5.3	NF
New England	5.3	5.3	Q	5.3	NF
Middle Atlantic	14.4	14.4	14.4	Q	NF
Midwest	24.1	--	--	--	NF
East North Central	16.9	--	--	--	NF
West North Central	7.2	--	--	--	NF
South	35.9	--	--	--	NF
South Atlantic	18.7	--	--	--	NF
East South Central	6.3	--	--	--	NF
West South Central	10.8	--	--	--	NF
West	21.8	--	--	--	NF
Mountain	6.2	--	--	--	NF
Pacific	15.6	--	--	--	NF
Metropolitan Statistical Area					
Urban	78.6	16.3	13.7	2.5	2.9
Central City	36.8	6.0	4.8	1.2	9.4
Suburban	41.9	10.3	8.9	1.4	5.0
Rural	22.8	3.5	0.7	2.8	7.9
Climate Zone¹					
Fewer than 2,000 CDD and--					
More than 7,000 HDD	9.3	2.0	0.5	1.5	21.1
5,500 to 7,000 HDD	28.0	9.6	5.7	3.9	7.5
4,000 to 5,499 HDD	22.5	8.1	8.1	Q	4.8
Fewer than 4,000 HDD	19.5	--	--	--	17.9
2,000 CDD or More and --					
Fewer than 4,000 HDD	22.2	--	--	--	13.1
Estimated Heated Floorspace Category (square feet)²					
Fewer than 600	7.9	1.9	1.5	0.4	10.7
600 to 999	21.5	4.4	3.1	1.3	4.9
1,000 to 1,599	30.4	5.1	3.7	1.4	7.0
1,600 to 1,999	15.3	2.4	1.7	0.7	9.7
2,000 to 2,399	7.9	1.4	1.0	0.3	12.5
2,400 to 2,999	5.3	1.0	0.7	0.3	17.5
3,000 or More	4.1	0.7	0.4	0.2	19.3
No Estimate Provided	9.1	2.9	2.3	0.7	11.7

See footnotes at end of table.

Table HC1-9a. Housing Unit Characteristics by Northeast Census Region, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.2	1.6	
Ownership of Unit					
Owned	68.5	12.8	9.1	3.6	3.3
Rented	33.0	7.0	5.3	1.7	6.4
Type and Ownership of Housing Unit					
Single-Family Detached	63.8	10.7	7.3	3.3	4.0
Owned	55.6	9.9	6.8	3.1	4.8
Rented	8.1	0.8	0.6	0.2	13.6
Single-Family Attached	9.9	3.1	2.7	0.4	12.7
Owned	5.5	1.9	1.7	0.2	16.7
Rented	4.5	1.2	1.0	0.2	15.2
Multifamily (2 to 4 units)	5.6	1.7	1.0	0.7	13.4
Owned	0.9	0.3	0.2	0.1	29.5
Rented	4.7	1.4	0.8	0.6	11.8
Multifamily (5 or more units)	15.8	3.8	3.1	0.7	9.3
Owned	1.2	0.3	0.2	Q	23.3
Rented	14.6	3.5	2.9	0.6	8.8
Mobile Home	6.3	0.5	0.4	0.1	22.7
Owned	5.3	0.4	0.3	Q	23.2
Rented	1.1	Q	Q	Q	29.6
Year of Construction					
1939 or Before	18.7	6.4	4.7	1.7	9.2
1940 to 1949	9.2	1.9	1.4	0.5	13.3
1950 to 1959	12.5	2.7	2.0	0.7	10.0
1960 to 1969	14.4	2.6	1.7	0.9	10.1
1970 to 1979	19.6	2.6	1.9	0.7	6.6
1980 to 1989	17.3	2.3	1.8	0.6	13.2
1990 to 1997 ³	9.7	1.2	0.9	0.2	13.4
Urban/Rural Location⁴					
City	48.2	6.9	4.9	2.0	6.7
Town	18.2	5.2	3.1	2.1	11.9
Suburbs	18.6	4.3	3.9	0.4	11.4
Rural or Open Country	16.5	3.4	2.6	0.8	11.0
Total Number of Rooms (Excluding Bathrooms)					
1 or 2	3.1	0.6	0.4	0.2	14.9
3	9.2	2.2	1.8	0.4	9.0
4	18.3	3.6	2.6	1.0	9.3
5	21.3	3.4	2.4	1.0	6.7
6	20.0	3.9	2.9	1.0	7.0
7	14.2	2.8	2.1	0.7	8.0
8	8.4	1.7	1.3	0.5	12.7
9 or More	7.0	1.5	1.0	0.5	11.0

See footnotes at end of table.

Table HC1-9a. Housing Unit Characteristics by Northeast Census Region, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.2	1.6	
Bedrooms					
None or 1	13.2	3.3	2.6	0.7	9.4
2	28.8	5.6	3.9	1.7	5.7
3	41.0	7.1	5.2	1.9	4.4
4 or More	18.6	3.8	2.7	1.0	7.8
Other Rooms (Excluding Bathrooms)					
None or 1	5.1	1.0	0.7	0.3	15.2
2	38.6	7.0	5.2	1.8	4.6
3	31.0	6.3	4.6	1.7	6.0
4	17.6	3.7	2.7	1.0	7.1
5 or More	9.2	1.8	1.3	0.6	9.1
Full Bathrooms					
None or 1	59.4	14.2	10.3	3.9	3.3
2	35.9	5.0	3.7	1.3	7.6
3 or More	6.2	0.5	0.4	0.1	23.1
Half Bathrooms					
None	73.0	13.1	9.2	3.9	2.3
1	26.5	6.1	4.8	1.3	3.9
2 or More	Q	Q	Q	Q	NF
Number of Stories					
Single-Family Homes	73.7	13.8	10.0	3.8	3.2
1 Story	41.1	3.8	2.8	1.0	8.1
2 Stories	26.9	8.4	6.1	2.4	4.7
3 Stories	3.2	1.1	0.9	0.2	17.8
Split-Level	2.4	0.3	0.2	0.1	24.9
Other	Q	Q	Q	Q	NF
Mobile Homes	6.3	0.5	0.4	0.1	22.7
Number of Floors in Apartment Buildings					
1 or 2 Floors	10.9	1.6	1.0	0.6	16.2
3 or 4 Floors	5.4	1.5	1.0	0.5	23.5
5 to 10 Floors	2.1	1.4	1.3	Q	10.6
11 to 20 Floors	0.8	0.5	0.4	Q	24.0
More than 20 Floors	0.2	Q	Q	Q	54.9
Don't Know/No Answer	2.0	0.5	0.4	Q	20.0
Foundation/Basement of Single-Family Homes (More than one may apply)					
Basement	33.2	11.3	8.0	3.2	5.6
Crawlspace	22.5	1.4	1.0	0.4	12.4
Concrete Slab	23.0	1.9	1.5	0.4	14.4
Not Asked (Mobile Homes and Multi-Family Units)	27.7	6.0	4.4	1.5	7.6
Garage/Carport					
Yes	54.5	9.4	7.1	2.3	4.3
1-Car Garage	16.2	4.5	3.4	1.1	8.1
2-Car Garage	29.7	4.2	3.1	1.1	6.1
3-Car Garage	2.8	0.4	0.3	Q	18.5
Covered Carport	6.4	0.3	0.2	Q	16.5
No	25.6	4.9	3.3	1.6	7.6
Not Asked (Apartments)	21.4	5.5	4.1	1.4	8.5

See footnotes at end of table.

Table HC1-9a. Housing Unit Characteristics by Northeast Census Region, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.2	1.6	
Fuels Used For Any Use (more than one often used)					
Electricity	101.4	19.7	14.4	5.3	NF
Natural Gas	61.9	11.8	9.9	1.9	7.4
Wood	15.0	2.5	1.6	0.9	11.3
Fuel Oil	10.0	7.5	4.6	2.9	10.1
LPG	8.1	1.6	1.0	0.6	18.1
Kerosene	3.5	1.0	0.6	0.4	20.4
Solar	0.7	Q	Q	Q	48.4
Main Heating Fuel					
Natural Gas	53.5	9.2	7.7	1.5	9.5
Electricity	29.6	2.3	1.7	0.6	12.3
Fuel Oil	9.5	7.1	4.4	2.7	10.1
LPG	4.6	0.2	Q	Q	29.1
Wood	2.2	0.4	0.2	0.1	22.8
Kerosene	1.0	0.4	0.2	Q	32.4
Solar	Q	Q	Q	Q	NF
Other/None	1.2	0.1	Q	Q	34.9

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

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

³ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

⁴ Based on the household respondent's description rather than the Federal Government definition.

-- = 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" 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 of the 1997 Residential Energy Consumption Survey.

**Table HC1-10a. Housing Unit Characteristics by Midwest Census Region,
Million U.S. Households, 1997**

Housing Unit Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.1	1.8	
Total	101.5	24.1	16.9	7.2	NF
Census Region and Division					
Northeast	19.7	--	--	--	NF
New England	5.3	--	--	--	NF
Middle Atlantic	14.4	--	--	--	NF
Midwest	24.1	24.1	16.9	7.2	NF
East North Central	16.9	16.9	16.9	Q	NF
West North Central	7.2	7.2	Q	7.2	NF
South	35.9	--	--	--	NF
South Atlantic	18.7	--	--	--	NF
East South Central	6.3	--	--	--	NF
West South Central	10.8	--	--	--	NF
West	21.8	--	--	--	NF
Mountain	6.2	--	--	--	NF
Pacific	15.6	--	--	--	NF
Metropolitan Statistical Area					
Urban	78.6	17.8	13.2	4.5	2.5
Central City	36.8	8.7	6.6	2.1	8.2
Suburban	41.9	9.1	6.6	2.4	7.8
Rural	22.8	6.3	3.7	2.6	6.5
Climate Zone¹					
Fewer than 2,000 CDD and--					
More than 7,000 HDD	9.3	5.4	2.7	2.7	28.9
5,500 to 7,000 HDD	28.0	14.7	12.4	Q	14.1
4,000 to 5,499 HDD	22.5	3.9	Q	2.1	22.1
Fewer than 4,000 HDD	19.5	--	--	--	19.3
2,000 CDD or More and --					
Fewer than 4,000 HDD	22.2	--	--	--	14.1
Estimated Heated Floorspace Category (square feet)²					
Fewer than 600	7.9	1.7	1.3	0.4	12.7
600 to 999	21.5	5.1	3.6	1.5	8.7
1,000 to 1,599	30.4	6.9	4.8	2.1	6.5
1,600 to 1,999	15.3	4.2	2.9	1.3	6.5
2,000 to 2,399	7.9	1.8	1.2	0.6	9.4
2,400 to 2,999	5.3	1.4	1.0	0.4	14.6
3,000 or More	4.1	1.0	0.7	0.3	18.3
No Estimate Provided	9.1	1.9	1.4	0.5	16.4

See footnotes at end of table.

**Table HC1-10a. Housing Unit Characteristics by Midwest Census Region,
Million U.S. Households, 1997 (Continued)**

Housing Unit Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.1	1.8	
Ownership of Unit					
Owned	68.5	17.3	11.8	5.5	3.3
Rented	33.0	6.8	5.1	1.7	8.2
Type and Ownership of Housing Unit					
Single-Family Detached	63.8	16.6	11.2	5.4	3.0
Owned	55.6	14.9	10.0	4.8	3.8
Rented	8.1	1.8	1.2	0.6	10.4
Single-Family Attached	9.9	1.8	1.3	0.5	14.3
Owned	5.5	0.9	0.7	0.2	19.3
Rented	4.5	0.9	0.6	0.3	18.1
Multifamily (2 to 4 units)	5.6	1.7	1.5	0.3	12.8
Owned	0.9	0.4	0.3	Q	36.5
Rented	4.7	1.3	1.1	0.2	17.1
Multifamily (5 or more units)	15.8	2.8	2.2	0.6	15.3
Owned	1.2	Q	Q	Q	40.6
Rented	14.6	2.7	2.1	0.6	16.0
Mobile Home	6.3	1.1	0.7	0.4	23.2
Owned	5.3	1.0	0.7	0.3	23.6
Rented	1.1	0.1	Q	Q	38.9
Year of Construction					
1939 or Before	18.7	7.2	4.9	2.3	9.9
1940 to 1949	9.2	2.1	1.6	0.5	11.6
1950 to 1959	12.5	2.7	2.0	0.7	9.3
1960 to 1969	14.4	3.2	2.3	0.8	11.1
1970 to 1979	19.6	4.0	3.0	1.0	10.4
1980 to 1989	17.3	2.9	1.9	1.0	14.0
1990 to 1997 ³	9.7	2.0	1.2	0.8	12.0
Urban/Rural Location⁴					
City	48.2	11.4	8.9	2.5	5.3
Town	18.2	4.5	2.5	2.0	11.4
Suburbs	18.6	4.5	3.1	1.4	8.5
Rural or Open Country	16.5	3.6	2.4	1.2	13.5
Total Number of Rooms (Excluding Bathrooms)					
1 or 2	3.1	0.6	0.4	Q	26.6
3	9.2	1.5	1.3	0.2	15.5
4	18.3	4.3	2.9	1.4	8.9
5	21.3	4.8	3.3	1.6	4.7
6	20.0	4.8	3.4	1.4	5.8
7	14.2	3.6	2.5	1.1	7.4
8	8.4	2.6	1.9	0.7	11.6
9 or More	7.0	1.9	1.3	0.6	9.3

See footnotes at end of table.

Table HC1-10a. Housing Unit Characteristics by Midwest Census Region, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.1	1.8	
Bedrooms					
None or 1	13.2	2.7	2.2	0.5	9.7
2	28.8	6.7	4.6	2.1	5.5
3	41.0	9.8	6.7	3.0	3.7
4 or More	18.6	4.9	3.4	1.5	6.9
Other Rooms (Excluding Bathrooms)					
None or 1	5.1	0.7	0.6	Q	19.1
2	38.6	8.4	6.0	2.4	4.7
3	31.0	7.3	4.9	2.5	4.9
4	17.6	4.8	3.5	1.3	7.2
5 or More	9.2	2.8	1.9	0.9	10.1
Full Bathrooms					
None or 1	59.4	15.5	11.1	4.5	3.2
2	35.9	7.3	5.1	2.2	5.4
3 or More	6.2	1.3	0.8	0.5	18.8
Half Bathrooms					
None	73.0	16.5	11.7	4.9	1.8
1	26.5	7.0	4.9	2.1	4.9
2 or More	Q	Q	Q	Q	NF
Number of Stories					
Single-Family Homes	73.7	18.4	12.5	5.9	2.1
1 Story	41.1	8.1	5.4	2.7	5.7
2 Stories	26.9	8.3	5.9	2.5	7.3
3 Stories	3.2	0.9	0.7	0.2	12.3
Split-Level	2.4	1.1	0.6	0.6	20.0
Other	Q	Q	Q	Q	NF
Mobile Homes	6.3	1.1	0.7	0.4	23.2
Number of Floors in Apartment Buildings					
1 or 2 Floors	10.9	2.2	1.7	0.5	17.1
3 or 4 Floors	5.4	1.3	1.0	0.3	26.0
5 to 10 Floors	2.1	Q	Q	Q	24.5
11 to 20 Floors	0.8	Q	Q	Q	45.2
More than 20 Floors	0.2	Q	Q	Q	58.9
Don't Know/No Answer	2.0	0.6	Q	Q	40.9
Foundation/Baseament of Single-Family Homes (More than one may apply)					
Basement	33.2	14.1	9.4	4.7	6.1
Crawlspace	22.5	3.9	3.1	0.8	12.5
Concrete Slab	23.0	2.3	1.6	0.7	11.4
Not Asked (Mobile Homes and Multi-Family Units)	27.7	5.6	4.4	1.2	6.8
Garage/Carport					
Yes	54.5	14.9	10.1	4.8	3.3
1-Car Garage	16.2	4.2	2.4	1.8	11.2
2-Car Garage	29.7	9.2	6.5	2.6	6.7
3-Car Garage	2.8	1.1	0.9	0.3	15.7
Covered Carport	6.4	0.6	0.4	Q	16.5
No	25.6	4.6	3.1	1.5	10.0
Not Asked (Apartments)	21.4	4.5	3.6	0.9	10.0

See footnotes at end of table.

Table HC1-10a. Housing Unit Characteristics by Midwest Census Region, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.1	1.8	
Fuels Used For Any Use (more than one often used)					
Electricity	101.4	24.1	16.9	7.2	NF
Natural Gas	61.9	18.5	13.7	4.9	5.0
Wood	15.0	2.6	1.7	0.9	12.2
Fuel Oil	10.0	1.1	0.6	0.4	17.5
LPG	8.1	2.3	1.2	1.2	20.8
Kerosene	3.5	0.4	0.4	Q	17.5
Solar	0.7	Q	Q	Q	51.9
Main Heating Fuel					
Natural Gas	53.5	17.9	13.2	4.7	5.4
Electricity	29.6	2.7	1.9	0.8	15.6
Fuel Oil	9.5	1.0	0.6	0.4	17.1
LPG	4.6	1.8	0.9	0.9	21.8
Wood	2.2	0.4	Q	Q	32.2
Kerosene	1.0	Q	Q	Q	34.8
Solar	Q	Q	Q	Q	NF
Other/None	1.2	Q	Q	Q	34.0

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

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

³ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

⁴ Based on the household respondent's description rather than the Federal Government definition.

-- = 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" 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 of the 1997 Residential Energy Consumption Survey.

**Table HC1-11a. Housing Unit Characteristics by South Census Region,
Million U.S. Households, 1997**

Housing Unit Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West south Central	
RSE Column Factor:	0.5	0.9	1.2	1.5	1.3	
Total	101.5	35.9	18.7	6.3	10.8	NF
Census Region and Division						
Northeast	19.7	--	--	--	--	NF
New England	5.3	--	--	--	--	NF
Middle Atlantic	14.4	--	--	--	--	NF
Midwest	24.1	--	--	--	--	NF
East North Central	16.9	--	--	--	--	NF
West North Central	7.2	--	--	--	--	NF
South	35.9	35.9	18.7	6.3	10.8	NF
South Atlantic	18.7	18.7	18.7	Q	Q	NF
East South Central	6.3	6.3	Q	6.3	Q	NF
West South Central	10.8	10.8	Q	Q	10.8	NF
West	21.8	--	--	--	--	NF
Mountain	6.2	--	--	--	--	NF
Pacific	15.6	--	--	--	--	NF
Metropolitan Statistical Area						
Urban	78.6	25.3	14.1	3.2	8.0	1.6
Central City	36.8	12.2	6.1	1.5	4.6	10.2
Suburban	41.9	13.1	8.1	1.7	3.4	8.8
Rural	22.8	10.5	4.6	3.2	2.8	4.0
Climate Zone¹						
Fewer than 2,000 CDD and--						
More than 7,000 HDD	9.3	--	--	--	--	35.3
5,500 to 7,000 HDD	28.0	--	--	--	--	NC
4,000 to 5,499 HDD	22.5	8.0	5.7	2.3	Q	11.5
Fewer than 4,000 HDD	19.5	9.2	5.2	Q	Q	11.1
2,000 CDD or More and --						
Fewer than 4,000 HDD	22.2	18.7	7.8	Q	9.4	7.2
Estimated Heated Floorspace Category (square feet)²						
Fewer than 600	7.9	2.1	1.0	0.4	0.6	13.4
600 to 999	21.5	6.8	3.3	1.4	2.1	6.6
1,000 to 1,599	30.4	11.8	6.5	1.9	3.4	6.7
1,600 to 1,999	15.3	5.7	2.9	1.0	1.8	8.8
2,000 to 2,399	7.9	3.0	1.4	0.5	1.1	10.6
2,400 to 2,999	5.3	1.8	0.9	0.3	0.6	14.5
3,000 or More	4.1	1.8	0.8	0.3	0.7	21.2
No Estimate Provided	9.1	2.9	1.8	0.5	0.7	17.0

See footnotes at end of table.

**Table HC1-11a. Housing Unit Characteristics by South Census Region,
Million U.S. Households, 1997 (Continued)**

Housing Unit Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West south Central	
RSE Column Factor:	0.5	0.9	1.2	1.5	1.3	
Ownership of Unit						
Owned	68.5	25.4	13.0	5.0	7.4	2.7
Rented	33.0	10.5	5.7	1.4	3.4	6.7
Type and Ownership of Housing Unit						
Single-Family Detached	63.8	23.9	11.6	4.4	7.9	2.8
Owned	55.6	20.7	10.1	3.9	6.6	3.2
Rented	8.1	3.2	1.5	0.5	1.2	11.7
Single-Family Attached	9.9	2.7	2.0	0.4	0.4	18.8
Owned	5.5	1.7	1.5	Q	Q	21.7
Rented	4.5	1.0	0.5	0.2	0.3	19.0
Multifamily (2 to 4 units)	5.6	1.4	0.7	0.3	0.4	21.3
Owned	0.9	Q	Q	Q	Q	39.4
Rented	4.7	1.3	0.6	0.3	0.4	22.4
Multifamily (5 or more units)	15.8	4.8	2.9	0.4	1.5	12.7
Owned	1.2	0.4	Q	Q	Q	41.1
Rented	14.6	4.5	2.7	0.4	1.4	12.9
Mobile Home	6.3	3.0	1.5	0.8	0.7	15.4
Owned	5.3	2.5	1.1	0.7	0.7	16.7
Rented	1.1	0.5	0.4	Q	Q	26.2
Year of Construction						
1939 or Before	18.7	3.1	1.6	0.7	0.9	12.1
1940 to 1949	9.2	2.8	1.3	0.5	1.0	9.5
1950 to 1959	12.5	4.2	2.2	0.8	1.2	8.7
1960 to 1969	14.4	5.1	2.2	0.9	2.0	8.1
1970 to 1979	19.6	7.8	4.0	1.5	2.3	8.1
1980 to 1989	17.3	8.2	5.1	1.1	2.0	11.1
1990 to 1997 ³	9.7	4.6	2.4	0.9	1.3	15.3
Urban/Rural Location⁴						
City	48.2	16.4	8.3	2.1	6.0	6.8
Town	18.2	5.3	2.3	1.1	1.9	15.5
Suburbs	18.6	6.9	4.4	0.9	1.6	12.0
Rural or Open Country	16.5	7.2	3.7	2.3	1.3	9.3
Total Number of Rooms (Excluding Bathrooms)						
1 or 2	3.1	0.6	0.3	Q	0.3	24.8
3	9.2	2.8	1.2	0.4	1.2	11.8
4	18.3	5.8	3.2	1.2	1.4	8.3
5	21.3	8.7	3.9	1.7	3.1	7.1
6	20.0	7.4	4.1	1.4	1.9	6.6
7	14.2	5.4	3.1	0.7	1.5	8.3
8	8.4	2.7	1.5	0.5	0.7	13.7
9 or More	7.0	2.5	1.3	0.4	0.7	12.8

See footnotes at end of table.

**Table HC1-11a. Housing Unit Characteristics by South Census Region,
Million U.S. Households, 1997 (Continued)**

Housing Unit Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West south Central	
RSE Column Factor:	0.5	0.9	1.2	1.5	1.3	
Bedrooms						
None or 1	13.2	3.5	1.5	0.4	1.5	10.8
2	28.8	9.8	5.3	2.1	2.5	5.3
3	41.0	16.5	8.9	2.8	4.8	5.2
4 or More	18.6	6.0	3.0	1.1	2.0	8.6
Other Rooms (Excluding Bathrooms)						
None or 1	5.1	1.3	0.6	0.2	0.5	18.0
2	38.6	13.7	6.4	2.7	4.6	4.0
3	31.0	11.2	6.1	1.8	3.3	5.9
4	17.6	6.5	3.8	1.0	1.7	7.3
5 or More	9.2	3.1	1.8	0.6	0.8	12.0
Full Bathrooms						
None or 1	59.4	18.1	8.7	3.7	5.8	2.8
2	35.9	15.2	8.5	2.4	4.3	4.7
3 or More	6.2	2.5	1.5	0.3	0.8	18.4
Half Bathrooms						
None	73.0	26.6	13.4	5.0	8.2	2.2
1	26.5	8.8	5.0	1.3	2.5	7.0
2 or More	Q	Q	Q	Q	Q	NF
Number of Stories						
Single-Family Homes	73.7	26.7	13.6	4.8	8.2	2.8
1 Story	41.1	19.0	8.8	3.5	6.7	5.2
2 Stories	26.9	6.2	3.6	1.1	1.5	10.3
3 Stories	3.2	0.8	0.8	Q	Q	14.3
Split-Level	2.4	0.6	0.4	Q	Q	20.9
Other	Q	Q	Q	Q	Q	NF
Mobile Homes	6.3	3.0	1.5	0.8	0.7	15.4
Number of Floors in Apartment Buildings						
1 or 2 Floors	10.9	4.1	2.0	0.6	1.5	13.8
3 or 4 Floors	5.4	1.3	1.1	Q	Q	35.6
5 to 10 Floors	2.1	0.2	Q	Q	Q	31.2
11 to 20 Floors	0.8	Q	Q	Q	Q	44.6
More than 20 Floors	0.2	Q	Q	Q	Q	58.1
Don't Know/No Answer	2.0	0.4	Q	Q	Q	30.2
Foundation/Basement of Single-Family Homes (More than one may apply)						
Basement	33.2	4.9	3.2	1.3	0.4	13.5
Crawlspace	22.5	10.8	5.1	2.4	3.3	6.3
Concrete Slab	23.0	12.3	6.0	1.3	4.9	6.7
Not Asked (Mobile Homes and Multi-Family Units)	27.7	9.2	5.1	1.6	2.6	8.1
Garage/Carport						
Yes	54.5	17.3	8.1	2.8	6.4	3.8
1-Car Garage	16.2	4.7	2.6	0.7	1.4	8.5
2-Car Garage	29.7	8.7	3.8	1.3	3.6	7.6
3-Car Garage	2.8	0.4	Q	Q	Q	21.6
Covered Carport	6.4	3.9	1.8	0.8	1.4	11.4
No	25.6	12.3	7.0	2.8	2.6	7.5
Not Asked (Apartments)	21.4	6.2	3.6	0.8	1.9	10.9

See footnotes at end of table.

Table HC1-11a. Housing Unit Characteristics by South Census Region, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West south Central	
RSE Column Factor:	0.5	0.9	1.2	1.5	1.3	
Fuels Used For Any Use (more than one often used)						
Electricity	101.4	35.9	18.7	6.3	10.8	NF
Natural Gas	61.9	16.4	6.4	2.7	7.3	7.1
Wood	15.0	5.7	3.3	1.1	1.3	9.1
Fuel Oil	10.0	1.2	1.1	Q	Q	27.7
LPG	8.1	3.2	1.6	1.1	0.5	18.3
Kerosene	3.5	1.9	1.3	0.4	Q	15.3
Solar	0.7	0.3	0.3	Q	Q	47.5
Main Heating Fuel						
Natural Gas	53.5	13.7	5.4	2.3	6.1	7.5
Electricity	29.6	17.5	10.4	2.9	4.2	7.2
Fuel Oil	9.5	1.1	1.1	Q	Q	27.1
LPG	4.6	2.1	0.8	0.8	0.4	18.1
Wood	2.2	0.7	0.4	0.2	Q	20.6
Kerosene	1.0	0.4	0.4	Q	Q	20.5
Solar	Q	Q	Q	Q	Q	NF
Other/None	1.2	0.4	0.3	Q	Q	39.2

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

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

³ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

⁴ Based on the household respondent's description rather than the Federal Government definition.

-- = Data not applicable.

NC = No cases in sample.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC1-12a. Housing Unit Characteristics by West Census Region,
Million U.S. Households, 1997**

Housing Unit Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
Total	101.5	21.8	6.2	15.6	NF
Census Region and Division					
Northeast	19.7	--	--	--	NF
New England	5.3	--	--	--	NF
Middle Atlantic	14.4	--	--	--	NF
Midwest	24.1	--	--	--	NF
East North Central	16.9	--	--	--	NF
West North Central	7.2	--	--	--	NF
South	35.9	--	--	--	NF
South Atlantic	18.7	--	--	--	NF
East South Central	6.3	--	--	--	NF
West South Central	10.8	--	--	--	NF
West	21.8	21.8	6.2	15.6	NF
Mountain	6.2	6.2	6.2	Q	NF
Pacific	15.6	15.6	Q	15.6	NF
Metropolitan Statistical Area					
Urban	78.6	19.3	4.8	14.4	3.9
Central City	36.8	9.9	3.3	6.6	9.1
Suburban	41.9	9.4	1.5	7.8	9.4
Rural	22.8	2.5	1.3	1.2	12.4
Climate Zone¹					
Fewer than 2,000 CDD and--					
More than 7,000 HDD	9.3	1.8	0.9	0.9	9.1
5,500 to 7,000 HDD	28.0	3.7	2.7	Q	18.3
4,000 to 5,499 HDD	22.5	2.4	Q	2.4	27.5
Fewer than 4,000 HDD	19.5	10.3	Q	9.9	4.3
2,000 CDD or More and --					
Fewer than 4,000 HDD	22.2	3.5	2.1	1.4	7.2
Estimated Heated Floorspace Category (square feet)²					
Fewer than 600	7.9	2.2	0.5	1.7	11.2
600 to 999	21.5	5.1	1.4	3.7	8.2
1,000 to 1,599	30.4	6.5	2.1	4.5	5.3
1,600 to 1,999	15.3	3.0	0.8	2.2	7.2
2,000 to 2,399	7.9	1.7	0.5	1.2	11.9
2,400 to 2,999	5.3	1.2	0.3	0.8	10.6
3,000 or More	4.1	0.6	0.3	0.4	20.2
No Estimate Provided	9.1	1.4	0.3	1.1	14.3
Ownership of Unit					
Owned	68.5	13.1	4.2	8.9	3.6
Rented	33.0	8.8	2.0	6.8	6.1

See footnotes at end of table.

Table HC1-12a. Housing Unit Characteristics by West Census Region, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
Type and Ownership of Housing Unit					
Single-Family Detached	63.8	12.6	3.7	8.8	4.7
Owned	55.6	10.2	3.2	7.0	5.4
Rented	8.1	2.3	0.5	1.8	9.0
Single-Family Attached	9.9	2.3	0.7	1.6	14.8
Owned	5.5	0.9	0.3	0.6	22.6
Rented	4.5	1.4	0.4	1.0	15.1
Multifamily (2 to 4 units)	5.6	0.8	0.2	0.6	21.1
Owned	0.9	Q	Q	Q	37.9
Rented	4.7	0.8	0.2	0.6	23.2
Multifamily (5 or more units)	15.8	4.4	0.8	3.5	11.3
Owned	1.2	0.4	Q	0.3	36.4
Rented	14.6	4.0	0.8	3.2	10.5
Mobile Home	6.3	1.7	0.7	1.1	16.1
Owned	5.3	1.5	0.5	0.9	18.6
Rented	1.1	0.3	Q	0.2	29.3
Year of Construction					
1939 or Before	18.7	2.1	0.7	1.4	10.5
1940 to 1949	9.2	2.3	0.4	1.9	10.3
1950 to 1959	12.5	2.9	0.8	2.1	8.1
1960 to 1969	14.4	3.6	1.1	2.5	8.3
1970 to 1979	19.6	5.1	1.6	3.5	6.8
1980 to 1989	17.3	3.9	1.0	2.8	11.1
1990 to 1997 ³	9.7	1.9	0.6	1.4	18.4
Urban/Rural Location⁴					
City	48.2	13.5	3.9	9.6	5.4
Town	18.2	3.2	1.0	2.3	12.7
Suburbs	18.6	2.9	0.6	2.3	13.0
Rural or Open Country	16.5	2.2	0.7	1.5	12.9
Total Number of Rooms (Excluding Bathrooms)					
1 or 2	3.1	1.3	0.2	1.1	15.3
3	9.2	2.6	0.6	2.1	10.6
4	18.3	4.6	1.3	3.3	9.3
5	21.3	4.3	1.3	3.0	7.4
6	20.0	3.9	1.1	2.8	5.9
7	14.2	2.5	0.8	1.7	11.3
8	8.4	1.4	0.5	0.8	10.4
9 or More	7.0	1.3	0.4	0.9	13.0
Bedrooms					
None or 1	13.2	3.7	0.7	3.0	8.3
2	28.8	6.7	2.0	4.8	7.1
3	41.0	7.5	2.3	5.2	5.8
4 or More	18.6	3.9	1.2	2.7	8.7

See footnotes at end of table.

Table HC1-12a. Housing Unit Characteristics by West Census Region, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
Other Rooms (Excluding Bathrooms)					
None or 1	5.1	2.0	0.4	1.6	12.3
2	38.6	9.6	2.7	6.9	4.1
3	31.0	6.1	1.7	4.5	5.5
4	17.6	2.5	0.8	1.7	10.2
5 or More	9.2	1.5	0.6	0.9	10.4
Full Bathrooms					
None or 1	59.4	11.5	3.3	8.3	3.8
2	35.9	8.5	2.4	6.0	4.0
3 or More	6.2	1.8	0.5	1.3	15.9
Half Bathrooms					
None	73.0	16.8	4.8	12.0	2.1
1	26.5	4.7	1.3	3.4	6.3
2 or More	Q	Q	Q	Q	NF
Number of Stories					
Single-Family Homes	73.7	14.9	4.5	10.4	3.6
1 Story	41.1	10.1	3.3	6.8	5.5
2 Stories	26.9	3.9	0.9	3.1	9.8
3 Stories	3.2	0.4	0.2	0.3	18.2
Split-Level	2.4	0.4	Q	0.3	30.2
Other	Q	Q	Q	Q	NF
Mobile Homes	6.3	1.7	0.7	1.1	16.1
Number of Floors in Apartment Buildings					
1 or 2 Floors	10.9	3.0	0.6	2.4	11.4
3 or 4 Floors	5.4	1.3	0.4	1.0	21.7
5 to 10 Floors	2.1	Q	Q	Q	23.2
11 to 20 Floors	0.8	Q	Q	Q	42.9
More than 20 Floors	0.2	Q	Q	Q	55.8
Don't Know/No Answer	2.0	0.5	Q	0.4	21.0
Foundation/Baseament of Single-Family Homes (More than one may apply)					
Basement	33.2	2.9	1.6	1.3	9.8
Crawlspace	22.5	6.4	1.4	5.0	9.9
Concrete Slab	23.0	6.5	1.8	4.6	9.5
Not Asked (Mobile Homes and Multi-Family Units)	27.7	6.9	1.7	5.2	8.3
Garage/Carport					
Yes	54.5	12.9	3.5	9.4	4.0
1-Car Garage	16.2	2.9	0.9	2.0	7.8
2-Car Garage	29.7	7.6	1.9	5.7	7.6
3-Car Garage	2.8	0.8	0.2	0.7	15.5
Covered Carport	6.4	1.7	0.6	1.1	14.3
No	25.6	3.8	1.7	2.1	7.5
Not Asked (Apartments)	21.4	5.2	1.0	4.1	10.5

See footnotes at end of table.

Table HC1-12a. Housing Unit Characteristics by West Census Region, Million U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
Fuels Used For Any Use (more than one often used)					
Electricity	101.4	21.8	6.2	15.6	NF
Natural Gas	61.9	15.1	4.4	10.7	2.5
Wood	15.0	4.2	1.1	3.1	9.2
Fuel Oil	10.0	0.3	Q	0.2	25.2
LPG	8.1	1.0	0.4	0.6	18.2
Kerosene	3.5	0.2	Q	Q	20.8
Solar	0.7	0.2	Q	Q	31.3
Main Heating Fuel					
Natural Gas	53.5	12.7	4.0	8.7	3.6
Electricity	29.6	7.1	1.7	5.4	7.0
Fuel Oil	9.5	0.2	Q	Q	23.8
LPG	4.6	0.5	0.3	0.3	24.9
Wood	2.2	0.7	0.2	0.5	18.4
Kerosene	1.0	Q	Q	Q	33.0
Solar	Q	Q	Q	Q	NF
Other/None	1.2	0.5	Q	0.5	18.0

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

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

³ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

⁴ Based on the household respondent's description rather than the Federal Government definition.

-- = 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" 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 of the 1997 Residential Energy Consumption Survey.

1997 Housing Characteristics Tables

Housing Unit Tables

(Percent of U.S. Households; 45 pages, 121 kb)

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HC1-12b. Housing Unit Characteristics by West Census Region, Percent of U.S. Households, 1997	4

These data are from the 1997 Residential Energy Consumption Survey (RECS) which provides information on the use of energy in residential housing units in the United States. The RECS is a national statistical survey that collects data for occupied primary housing units. RECS was first conducted in 1978; the sixth and most recent survey was conducted in 1997 RECS. The data were collected from a sample of 5,900 housing units statistically selected to represent the 101.5 million units in the United States. The 1997 data are available for the four Census regions, the nine Census divisions, and for the four most populous States--California, Florida, New York, and Texas.

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

**Table HC1-1b. Housing Unit Characteristics by Climate Zone,
Percent of U.S. Households, 1997**

Housing Unit Characteristics	Total	Climate Zone					RSE Row Factors	
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD		
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD			
RSE Column Factor:	0.5	1.5	1.0	1.1	1.2	1.0		
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Census Region and Division								
Northeast	19.4	21.4	34.3	36.2	Q	Q	Q	11.3
New England	5.2	15.7	13.8	Q	Q	Q	Q	18.8
Middle Atlantic	14.2	5.7	20.5	36.2	Q	Q	Q	10.6
Midwest	23.7	58.8	52.4	17.5	Q	Q	Q	12.7
East North Central	16.7	29.2	44.1	Q	Q	Q	Q	13.9
West North Central	7.0	29.6	Q	9.3	Q	Q	Q	23.8
South	35.4	Q	Q	35.5	47.1	84.3	84.3	5.1
South Atlantic	18.4	Q	Q	25.4	26.5	35.3	35.3	7.8
East South Central	6.3	Q	Q	10.2	13.3	Q	Q	35.8
West South Central	10.7	Q	Q	Q	Q	42.4	42.4	7.6
West	21.5	19.8	13.4	10.8	52.9	15.7	15.7	15.1
Mountain	6.1	9.9	9.8	Q	Q	9.5	9.5	14.3
Pacific	15.4	9.9	Q	10.8	50.8	6.2	6.2	13.4
Metropolitan Statistical Area								
Urban	77.5	46.3	82.8	79.6	74.8	84.0	84.0	6.3
Central City	36.2	27.4	37.2	33.2	35.1	42.8	42.8	11.5
Suburban	41.3	19.0	45.7	46.4	39.7	41.2	41.2	10.1
Rural	22.5	53.7	17.2	20.4	25.2	16.0	16.0	16.1
Climate Zone¹								
Fewer than 2,000 CDD and--								
More than 7,000 HDD	9.1	100.0	--	--	--	--	--	35.6
5,500 to 7,000 HDD	27.6	--	100.0	--	--	--	--	17.8
4,000 to 5,499 HDD	22.2	--	--	100.0	--	--	--	17.6
Fewer than 4,000 HDD	19.2	--	--	--	100.0	--	--	19.2
2,000 CDD or More and --								
Fewer than 4,000 HDD	21.9	--	--	--	--	100.0	100.0	14.0
Estimated Heated Floorspace Category (square feet)²								
Fewer than 600	7.8	5.5	7.0	8.9	10.3	6.3	6.3	11.2
600 to 999	21.2	22.7	22.1	20.4	22.4	19.1	19.1	6.9
1,000 to 1,599	29.9	33.2	27.4	26.5	33.5	32.0	32.0	5.7
1,600 to 1,999	15.1	15.5	16.6	14.6	13.5	14.7	14.7	8.4
2,000 to 2,399	7.8	6.3	7.9	7.6	7.5	8.7	8.7	10.2
2,400 to 2,999	5.3	5.1	6.1	4.9	4.8	5.0	5.0	14.2
3,000 or More	4.1	4.5	4.3	2.9	2.9	5.8	5.8	18.9
No Estimate Provided	9.0	7.3	8.6	14.2	5.1	8.4	8.4	13.6
Ownership of Unit								
Owned	67.5	75.8	68.9	65.8	61.7	68.9	68.9	3.1
Rented	32.5	24.2	31.1	34.2	38.3	31.1	31.1	6.6

See footnotes at end of table.

**Table HC1-1b. Housing Unit Characteristics by Climate Zone,
Percent of U.S. Households, 1997 (Continued)**

Housing Unit Characteristics	Total	Climate Zone					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.5	1.0	1.1	1.2	1.0	
Type and Ownership of Housing Unit							
Single-Family Detached	62.9	73.7	63.1	57.2	61.4	65.1	3.7
Owned	54.8	66.1	57.1	50.0	50.6	55.8	4.1
Rented	8.0	7.6	6.0	7.1	10.8	9.3	11.4
Single-Family Attached	9.8	9.9	9.8	13.0	9.0	7.2	14.7
Owned	5.4	4.7	4.9	8.9	3.9	4.1	20.2
Rented	4.4	5.1	5.0	4.1	5.1	3.1	16.0
Multifamily (2 to 4 units)	5.5	5.2	7.9	5.8	4.3	3.5	16.3
Owned	0.9	Q	1.9	1.0	Q	Q	32.5
Rented	4.6	4.4	6.0	4.8	4.1	3.2	17.9
Multifamily (5 or more units)	15.6	6.3	14.3	19.2	17.8	15.4	13.7
Owned	1.1	Q	1.1	1.8	Q	1.4	37.7
Rented	14.4	6.1	13.2	17.4	17.1	14.0	13.5
Mobile Home	6.2	4.9	4.8	4.9	7.5	8.8	17.3
Owned	5.2	3.9	4.0	4.1	6.3	7.3	19.3
Rented	1.1	Q	0.8	0.8	1.2	1.5	28.5
Year of Construction							
1939 or Before	18.5	35.4	25.3	22.5	9.7	6.3	10.4
1940 to 1949	9.1	7.4	8.9	9.5	12.9	6.1	10.8
1950 to 1959	12.4	9.9	13.3	11.6	12.8	12.6	8.2
1960 to 1969	14.2	9.3	13.9	13.5	15.9	16.0	8.6
1970 to 1979	19.3	16.3	18.1	16.8	20.3	23.6	8.0
1980 to 1989	17.1	11.6	12.1	18.7	17.2	23.7	10.8
1990 to 1997 ³	9.6	10.2	8.5	7.3	11.1	11.7	14.5
Urban/Rural Location⁴							
City	47.5	40.4	43.8	37.9	58.2	55.6	6.2
Town	17.9	25.6	20.1	18.9	16.5	12.3	14.6
Suburbs	18.3	10.3	20.9	25.2	11.0	17.8	12.4
Rural or Open Country	16.2	23.7	15.2	18.0	14.2	14.3	12.1
Total Number of Rooms (Excluding Bathrooms)							
1 or 2	3.0	Q	2.6	2.5	4.9	2.8	18.2
3	9.0	5.8	7.2	10.4	10.8	9.8	12.2
4	18.0	15.8	18.5	19.4	19.0	16.2	8.3
5	20.9	22.1	19.1	17.1	22.8	25.0	6.4
6	19.7	23.0	19.2	20.0	19.9	18.8	6.1
7	14.0	12.9	15.4	15.0	10.7	14.8	8.2
8	8.3	9.4	10.1	8.8	6.7	6.2	12.4
9 or More	6.9	8.9	7.9	6.8	5.3	6.5	12.2
Bedrooms							
None or 1	13.0	9.9	11.6	14.9	15.1	12.1	10.2
2	28.4	27.3	27.2	29.3	29.4	28.5	5.8
3	40.4	43.7	39.8	38.2	38.9	43.2	5.0
4 or More	18.3	19.1	21.4	17.6	16.6	16.2	7.9

See footnotes at end of table.

**Table HC1-1b. Housing Unit Characteristics by Climate Zone,
Percent of U.S. Households, 1997 (Continued)**

Housing Unit Characteristics	Total	Climate Zone					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.5	1.0	1.1	1.2	1.0	
Other Rooms (Excluding Bathrooms)							
None or 1	5.0	3.5	4.2	3.8	7.3	5.7	16.0
2	38.1	33.1	36.5	36.5	43.8	38.6	4.3
3	30.5	35.1	28.4	31.3	28.9	32.0	5.2
4	17.3	16.0	20.3	19.0	13.5	15.7	7.6
5 or More	9.1	12.3	10.6	9.3	6.5	8.0	10.2
Full Bathrooms							
None or 1	58.5	66.9	65.4	62.8	52.9	46.8	3.2
2	35.4	27.4	29.4	33.0	39.2	45.5	5.2
3 or More	6.1	5.7	5.2	4.2	7.9	7.6	17.2
Half Bathrooms							
None	72.0	72.3	67.0	66.9	78.2	77.8	2.1
1	26.1	26.1	30.3	30.2	21.1	21.2	5.9
2 or More	Q	Q	Q	Q	Q	Q	NF
Number of Stories							
Single-Family Homes	72.7	83.6	72.9	70.2	70.4	72.2	2.9
1 Story	40.5	35.5	29.0	29.5	50.2	59.7	6.4
2 Stories	26.5	41.7	35.7	30.5	18.4	11.9	8.0
3 Stories	3.2	3.5	4.5	6.4	Q	Q	15.8
Split-Level	2.4	2.9	3.4	3.9	Q	Q	21.1
Other	Q	Q	Q	Q	Q	Q	NF
Mobile Homes	6.2	4.9	4.8	4.9	7.5	8.8	17.3
Number of Floors in Apartment Buildings							
1 or 2 Floors	10.7	6.0	9.8	7.9	13.3	14.6	13.7
3 or 4 Floors	5.3	3.6	7.0	7.3	5.9	1.5	28.3
5 to 10 Floors	2.0	Q	1.7	5.3	Q	Q	21.4
11 to 20 Floors	0.8	Q	Q	1.9	Q	Q	28.8
More than 20 Floors	0.2	Q	Q	Q	Q	Q	58.7
Don't Know/No Answer	2.0	Q	2.8	2.4	1.7	1.3	24.9
Foundation/Basement of Single-Family Homes (More than one may apply)							
Basement	32.7	65.7	55.1	40.3	8.8	3.9	8.6
Crawlspace	22.2	13.0	16.0	21.1	36.2	22.5	9.9
Concrete Slab	22.6	8.8	9.1	14.0	28.5	49.0	9.5
Not Asked (Mobile Homes and Multi-Family Units)	27.3	16.4	27.1	29.8	29.6	27.8	8.3
Garage/Carport							
Yes	53.7	65.9	55.5	48.6	51.2	53.6	3.9
1-Car Garage	16.0	25.5	16.1	19.8	13.1	10.6	9.1
2-Car Garage	29.2	34.0	33.7	21.3	30.1	28.8	7.3
3-Car Garage	2.7	3.5	3.9	2.3	2.5	1.6	17.8
Covered Carport	6.3	3.6	2.2	6.0	6.3	13.2	15.5
No	25.2	22.6	22.3	26.5	26.7	27.5	8.2
Not Asked (Apartments)	21.1	11.5	22.2	24.9	22.1	19.0	10.5

See footnotes at end of table.

Table HC1-1b. Housing Unit Characteristics by Climate Zone, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	Climate Zone					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.5	1.0	1.1	1.2	1.0	
Fuels Used For Any Use (more than one often used)							
Electricity	100.0	99.8	100.0	100.0	99.9	100.0	NE
Natural Gas	61.0	55.1	71.2	56.4	65.0	51.7	5.2
Wood	14.8	21.8	11.6	15.6	17.4	12.9	9.7
Fuel Oil	9.8	21.7	11.2	19.7	1.3	Q	17.1
LPG	8.0	15.4	6.9	7.3	8.7	6.1	20.5
Kerosene	3.4	4.6	2.9	4.0	4.9	1.8	18.8
Solar	0.7	Q	Q	Q	Q	1.6	46.2
Main Heating Fuel							
Natural Gas	52.7	52.8	66.8	44.1	54.5	42.0	6.1
Electricity	29.2	11.8	15.3	30.1	33.6	49.1	9.2
Fuel Oil	9.3	20.2	10.8	18.8	1.1	Q	16.9
LPG	4.5	5.7	4.5	3.7	5.9	3.8	26.5
Wood	2.2	6.1	1.4	2.1	2.6	1.2	24.2
Kerosene	1.0	Q	0.6	0.5	1.6	Q	29.2
Solar	Q	Q	Q	Q	Q	Q	NF
Other/None	1.1	Q	0.7	0.7	Q	2.8	34.3

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

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

³ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

⁴ Based on the household respondent's description rather than the Federal Government definition.

-- = Data not applicable.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC1-2b. Housing Unit Characteristics by Year of Construction,
Percent of U.S. Households, 1997**

Housing Unit Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.7	1.2	1.0	1.1	1.1	0.8	
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Census Region and Division								
Northeast	19.4	12.0	13.6	13.5	18.0	21.5	29.7	8.4
New England	5.2	2.5	3.2	3.7	6.2	5.7	7.8	13.5
Middle Atlantic	14.2	9.5	10.3	9.8	11.8	15.8	21.9	10.6
Midwest	23.7	20.3	16.7	20.5	21.9	21.7	33.3	8.4
East North Central	16.7	12.2	10.8	15.4	16.1	16.0	23.3	10.4
West North Central	7.0	8.1	5.9	5.1	5.8	5.7	10.0	16.9
South	35.4	47.8	47.3	39.9	35.3	33.5	21.3	5.5
South Atlantic	18.4	24.6	29.2	20.3	15.2	17.3	10.4	8.7
East South Central	6.3	9.5	6.3	7.6	6.0	6.5	4.2	14.8
West South Central	10.7	13.7	11.8	12.0	14.0	9.8	6.7	11.1
West	21.5	19.9	22.4	26.1	24.8	23.3	15.7	7.5
Mountain	6.1	5.8	6.0	8.1	7.8	6.4	3.8	14.5
Pacific	15.4	14.2	16.4	18.0	17.0	16.9	11.9	9.1
Metropolitan Statistical Area								
Urban	77.5	73.3	80.7	78.3	79.3	83.0	72.9	2.3
Central City	36.2	27.5	28.4	31.2	38.7	40.3	44.6	7.5
Suburban	41.3	45.8	52.4	47.1	40.6	42.7	28.3	6.4
Rural	22.5	26.7	19.3	21.7	20.7	17.0	27.1	7.9
Climate Zone²								
Fewer than 2,000 CDD and--								
More than 7,000 HDD	9.1	9.7	6.2	7.7	5.9	7.3	14.2	19.8
5,500 to 7,000 HDD	27.6	24.4	19.6	25.9	26.9	29.7	34.4	11.2
4,000 to 5,499 HDD	22.2	16.8	24.4	19.4	21.1	20.9	25.8	12.5
Fewer than 4,000 HDD	19.2	22.4	19.4	20.2	21.5	19.9	15.8	12.6
2,000 CDD or More and --								
Fewer than 4,000 HDD	21.9	26.7	30.4	26.8	24.6	22.3	9.8	10.0
Estimated Heated Floorspace Category (square feet)³								
Fewer than 600	7.8	5.2	6.3	7.8	8.7	6.2	9.8	12.5
600 to 999	21.2	11.6	16.8	26.6	22.2	21.1	22.9	7.8
1,000 to 1,599	29.9	31.3	30.2	24.9	31.5	37.6	28.5	6.1
1,600 to 1,999	15.1	15.0	17.2	14.8	14.9	15.9	13.7	7.9
2,000 to 2,399	7.8	9.5	8.0	9.6	7.2	6.5	6.6	11.2
2,400 to 2,999	5.3	9.3	9.6	5.5	3.7	2.4	3.0	15.5
3,000 or More	4.1	13.0	4.4	3.8	2.2	2.0	2.9	19.6
No Estimate Provided	9.0	5.2	7.6	6.9	9.4	8.4	12.7	12.7
Ownership of Unit								
Owned	67.5	78.6	69.2	65.4	63.7	70.9	64.4	2.8
Rented	32.5	21.4	30.8	34.6	36.3	29.1	35.6	6.2

See footnotes at end of table.

Table HC1-2b. Housing Unit Characteristics by Year of Construction, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.7	1.2	1.0	1.1	1.1	0.8	
Type and Ownership of Housing Unit								
Single-Family Detached	62.9	64.7	55.3	54.2	62.1	79.2	66.0	3.3
Owned	54.8	60.2	50.7	48.0	54.3	66.9	55.2	3.7
Rented	8.0	4.5	4.6	6.2	7.8	12.3	10.9	12.7
Single-Family Attached	9.8	8.8	13.6	8.7	6.6	5.8	12.0	14.1
Owned	5.4	4.7	9.2	4.9	2.1	2.2	6.7	21.0
Rented	4.4	4.1	4.4	3.8	4.5	3.6	5.3	17.6
Multifamily (2 to 4 units)	5.5	Q	4.1	4.8	6.1	3.3	9.0	16.1
Owned	0.9	Q	Q	1.1	Q	Q	2.0	34.0
Rented	4.6	Q	3.7	3.7	5.7	3.1	7.0	17.3
Multifamily (5 or more units)	15.6	11.3	17.5	21.6	18.8	10.3	12.3	11.4
Owned	1.1	Q	Q	2.9	1.6	Q	Q	36.0
Rented	14.4	10.4	16.9	18.8	17.2	9.7	11.9	11.7
Mobile Home	6.2	13.5	9.5	10.7	6.4	1.4	0.6	17.4
Owned	5.2	12.8	8.2	8.6	5.3	Q	Q	14.3
Rented	1.1	Q	1.3	2.1	1.1	Q	Q	27.8
Year of Construction								
1939 or Before	18.5	--	--	--	--	--	67.1	5.6
1940 to 1949	9.1	--	--	--	--	--	32.9	8.0
1950 to 1959	12.4	--	--	--	--	100.0	--	7.9
1960 to 1969	14.2	--	--	--	100.0	--	--	8.1
1970 to 1979	19.3	--	--	100.0	--	--	--	7.4
1980 to 1989	17.1	--	100.0	--	--	--	--	11.0
1990 to 1997 ¹	9.6	100.0	--	--	--	--	--	14.4
Urban/Rural Location⁴								
City	47.5	33.4	39.7	45.4	46.5	53.1	56.9	5.1
Town	17.9	16.4	17.8	16.5	17.8	15.3	20.8	9.7
Suburbs	18.3	25.2	25.4	19.1	20.2	22.5	8.1	9.5
Rural or Open Country	16.2	25.0	17.1	19.0	15.4	9.2	14.2	9.0
Total Number of Rooms (Excluding Bathrooms)								
1 or 2	3.0	Q	2.9	3.6	3.1	1.7	3.7	21.9
3	9.0	4.3	7.6	11.8	12.2	6.7	9.1	12.0
4	18.0	16.4	19.0	19.6	19.9	18.0	16.0	8.3
5	20.9	25.1	22.6	20.2	19.7	21.7	19.3	6.4
6	19.7	15.3	17.7	17.1	18.1	23.6	23.4	7.0
7	14.0	12.0	13.8	13.3	14.9	18.7	12.8	8.8
8	8.3	10.5	8.4	8.2	7.6	6.5	8.6	12.3
9 or More	6.9	14.4	8.0	6.3	4.5	3.0	7.2	13.8
Bedrooms								
None or 1	13.0	6.3	10.0	15.0	15.3	9.6	16.0	10.7
2	28.4	21.4	28.6	29.0	29.4	27.5	30.2	5.9
3	40.4	43.9	43.3	39.4	37.7	49.3	35.3	4.5
4 or More	18.3	28.4	18.1	16.6	17.6	13.6	18.5	8.4

See footnotes at end of table.

Table HC1-2b. Housing Unit Characteristics by Year of Construction, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.7	1.2	1.0	1.1	1.1	0.8	
Other Rooms (Excluding Bathrooms)								
None or 1	5.0	3.9	5.5	6.6	4.7	3.1	4.8	16.1
2	38.1	40.8	38.4	40.8	45.6	38.2	31.0	4.8
3	30.5	22.3	28.2	28.0	26.9	35.3	36.4	5.6
4	17.3	16.5	19.6	16.2	16.2	16.2	18.0	8.4
5 or More	9.1	16.4	8.3	8.3	6.6	7.3	9.7	11.4
Full Bathrooms								
None or 1	58.5	24.4	36.1	56.5	64.9	69.5	77.5	3.8
2	35.4	58.3	56.3	37.0	30.6	26.9	19.8	5.3
3 or More	6.1	17.3	7.7	6.5	4.5	3.6	2.8	15.8
Half Bathrooms								
None	72.0	62.4	65.4	70.0	72.6	78.1	77.7	2.6
1	26.1	36.6	32.5	27.9	25.8	20.3	20.2	6.5
2 or More	Q	Q	Q	Q	Q	Q	Q	NF
Number of Stories								
Single-Family Homes	72.7	73.5	68.9	62.9	68.7	85.0	78.1	2.8
1 Story	40.5	36.6	32.9	38.8	50.3	64.3	32.0	5.1
2 Stories	26.5	32.7	28.6	17.4	13.6	17.7	40.2	7.4
3 Stories	3.2	Q	2.9	2.9	1.8	Q	5.4	19.3
Split-Level	2.4	Q	4.4	3.7	2.9	2.0	Q	21.9
Other	Q	Q	Q	Q	Q	Q	Q	NF
Mobile Homes	6.2	13.5	9.5	10.7	6.4	1.4	0.6	17.4
Number of Floors in Apartment Buildings								
1 or 2 Floors	10.7	7.2	13.4	13.9	13.4	7.7	8.2	12.5
3 or 4 Floors	5.3	2.6	4.1	5.9	6.3	2.6	7.4	25.0
5 to 10 Floors	2.0	Q	Q	2.7	1.7	1.6	2.6	27.2
11 to 20 Floors	0.8	Q	Q	Q	1.3	Q	Q	36.2
More than 20 Floors	0.2	Q	Q	Q	Q	Q	Q	53.9
Don't Know/No Answer	2.0	Q	2.5	2.5	1.7	Q	2.4	27.4
Foundation/Basement of Single-Family Homes (More than one may apply)								
Basement	32.7	25.9	20.5	21.9	27.5	35.9	51.5	6.8
Crawlspace	22.2	18.0	13.4	18.6	22.9	32.4	26.5	8.9
Concrete Slab	22.6	31.7	36.4	27.5	24.0	20.9	7.6	8.2
Not Asked (Mobile Homes and Multi-Family Units)	27.3	26.5	31.1	37.1	31.3	15.0	21.9	7.6
Garage/Carport								
Yes	53.7	63.4	56.6	51.2	53.7	61.7	46.5	3.7
1-Car Garage	16.0	8.7	12.1	11.5	16.2	26.7	19.2	10.1
2-Car Garage	29.2	41.2	37.5	31.9	28.0	25.0	20.5	6.4
3-Car Garage	2.7	10.6	3.1	1.5	Q	Q	2.4	15.9
Covered Carport	6.3	3.2	4.2	7.3	9.1	10.0	5.0	14.2
No	25.2	23.6	21.8	22.3	21.4	24.6	32.1	7.3
Not Asked (Apartments)	21.1	12.9	21.6	26.4	24.9	13.6	21.4	9.5

See footnotes at end of table.

Table HC1-2b. Housing Unit Characteristics by Year of Construction, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.7	1.2	1.0	1.1	1.1	0.8	
Fuels Used For Any Use (more than one often used)								
Electricity	100.0	99.8	100.0	100.0	100.0	100.0	99.9	NE
Natural Gas	61.0	53.8	43.5	48.4	66.5	73.1	74.9	4.2
Wood	14.8	16.7	21.2	17.4	14.9	10.9	10.2	9.2
Fuel Oil	9.8	3.1	3.4	5.3	10.7	12.1	17.8	14.3
LPG	8.0	9.1	6.7	8.7	7.6	5.8	9.0	14.1
Kerosene	3.4	1.9	2.9	3.8	2.7	2.2	4.9	18.2
Solar	0.7	Q	Q	1.5	Q	Q	Q	37.9
Main Heating Fuel								
Natural Gas	52.7	48.3	36.0	41.3	57.7	64.5	64.7	4.8
Electricity	29.2	39.9	53.5	43.3	23.8	17.9	8.2	7.3
Fuel Oil	9.3	2.7	3.2	5.1	10.2	11.4	17.0	14.4
LPG	4.5	5.8	3.8	4.9	3.9	3.8	4.9	17.2
Wood	2.2	Q	2.1	2.5	2.4	1.3	2.5	22.4
Kerosene	1.0	Q	0.8	1.3	Q	Q	1.2	30.5
Solar	Q	Q	Q	Q	Q	Q	Q	NF
Other/None	1.1	Q	Q	1.6	1.1	Q	1.4	34.4

¹ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

² One of five climatically distinct areas, determined according to the 30-year average (1961-1990) of the annual heating and cooling degree-days. For this report, the heating or cooling degree-days are a measure of how cold or how hot a location is over a period of one year, relative to a base temperature of 65 degrees Fahrenheit. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station.

³ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

⁴ Based on the household respondent's description rather than the Federal Government definition.

-- = Data not applicable.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

Table HC1-3b. Housing Unit Characteristics by Household Income, Percent of U.S. Households, 1997

Housing Unit Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.4	1.0	0.9	1.1	1.3	1.0	
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Census Region and Division								
Northeast	19.4	19.1	15.8	20.1	22.7	17.2	18.9	4.9
New England	5.2	3.2	4.8	5.6	6.3	2.8	5.5	7.3
Middle Atlantic	14.2	15.9	11.0	14.5	16.4	14.4	13.4	6.0
Midwest	23.7	18.5	22.3	25.7	25.4	19.7	21.0	4.7
East North Central	16.7	13.5	15.6	17.8	17.9	14.5	15.4	5.2
West North Central	7.0	5.0	6.7	7.9	7.5	5.2	5.6	10.6
South	35.4	42.2	37.4	32.5	33.2	38.7	36.3	3.7
South Atlantic	18.4	20.7	18.1	17.7	18.5	19.6	18.7	6.3
East South Central	6.3	9.0	6.9	6.2	4.3	7.9	6.6	6.7
West South Central	10.7	12.5	12.3	8.6	10.4	11.2	11.0	8.8
West	21.5	20.2	24.5	21.7	18.7	24.4	23.7	5.5
Mountain	6.1	5.9	6.9	6.6	4.7	6.1	5.7	9.6
Pacific	15.4	14.3	17.5	15.1	14.1	18.3	18.1	7.1
Metropolitan Statistical Area								
Urban	77.5	74.3	72.5	77.2	84.6	75.2	73.4	1.9
Central City	36.2	45.5	39.0	35.7	29.6	44.8	41.6	5.7
Suburban	41.3	28.8	33.5	41.5	55.0	30.5	31.8	5.8
Rural	22.5	25.7	27.5	22.8	15.4	24.8	26.6	6.2
Climate Zone²								
Fewer than 2,000 CDD and--								
More than 7,000 HDD	9.1	6.3	9.5	10.7	8.3	7.0	8.2	18.6
5,500 to 7,000 HDD	27.6	21.6	24.7	29.4	31.7	22.5	24.1	9.5
4,000 to 5,499 HDD	22.2	24.0	19.4	22.3	24.1	20.9	22.2	9.5
Fewer than 4,000 HDD	19.2	22.0	21.8	18.5	15.9	25.1	22.3	11.3
2,000 CDD or More and --								
Fewer than 4,000 HDD	21.9	26.2	24.7	19.1	20.0	24.6	23.2	8.9
Estimated Heated Floorspace Category (square feet)³								
Fewer than 600	7.8	21.4	10.8	5.2	0.9	18.5	14.2	10.4
600 to 999	21.2	32.6	29.4	19.2	9.3	31.2	29.8	6.0
1,000 to 1,599	29.9	20.9	33.4	34.7	25.2	25.1	29.0	5.0
1,600 to 1,999	15.1	4.6	10.9	17.3	21.9	6.2	8.1	7.6
2,000 to 2,399	7.8	1.7	4.0	8.0	14.3	1.9	3.2	12.7
2,400 to 2,999	5.3	Q	1.1	4.5	12.3	1.3	1.4	17.1
3,000 or More	4.1	Q	1.1	2.9	10.0	Q	1.1	19.1
No Estimate Provided	9.0	16.6	9.3	8.1	6.0	14.9	13.0	10.1
Ownership of Unit								
Owned	67.5	38.5	60.4	70.2	85.5	38.7	50.2	2.8
Rented	32.5	61.5	39.6	29.8	14.5	61.3	49.8	4.2

See footnotes at end of table.

Table HC1-3b. Housing Unit Characteristics by Household Income, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.4	1.0	0.9	1.1	1.3	1.0	
Type and Ownership of Housing Unit								
Single-Family Detached	62.9	38.3	53.1	65.5	81.8	41.8	47.9	3.0
Owned	54.8	27.7	43.9	57.3	76.5	27.8	36.8	3.6
Rented	8.0	10.7	9.2	8.2	5.4	13.9	11.1	8.7
Single-Family Attached	9.8	11.3	10.7	9.8	8.2	11.2	11.0	10.1
Owned	5.4	3.3	5.4	5.6	6.2	3.2	4.3	15.8
Rented	4.4	8.0	5.2	4.2	2.1	8.0	6.7	12.2
Multifamily (2 to 4 units)	5.5	11.3	7.3	4.3	2.3	10.2	8.8	12.4
Owned	0.9	Q	0.8	1.1	1.0	Q	0.8	30.1
Rented	4.6	10.8	6.5	3.2	1.3	9.7	7.9	14.1
Multifamily (5 or more units)	15.6	31.3	18.1	15.1	6.0	27.4	23.6	8.2
Owned	1.1	1.5	1.2	1.6	Q	Q	1.4	27.1
Rented	14.4	29.7	16.9	13.5	5.5	26.9	22.1	8.3
Mobile Home	6.2	7.8	10.8	5.4	1.6	9.5	8.8	13.0
Owned	5.2	5.5	9.1	4.7	1.4	6.6	6.9	14.2
Rented	1.1	2.3	1.7	0.7	Q	2.9	1.9	23.0
Year of Construction								
1939 or Before	18.5	24.0	20.0	18.5	14.2	23.6	22.5	7.4
1940 to 1949	9.1	10.7	11.3	8.7	6.3	10.7	11.8	8.9
1950 to 1959	12.4	13.0	14.0	12.5	10.2	14.1	13.8	6.8
1960 to 1969	14.2	13.5	15.1	15.4	12.4	15.3	13.7	7.4
1970 to 1979	19.3	18.8	17.7	20.2	20.1	18.2	18.0	6.3
1980 to 1989	17.1	13.5	15.3	15.2	22.7	12.3	13.8	8.5
1990 to 1997 ⁴	9.6	6.5	6.6	9.6	14.1	5.8	6.4	12.1
Urban/Rural Location⁵								
City	47.5	60.1	52.9	46.7	36.9	60.0	55.9	3.8
Town	17.9	20.4	19.6	17.0	16.1	19.5	20.8	8.6
Suburbs	18.3	6.4	11.4	18.7	30.7	7.1	8.7	9.0
Rural or Open Country	16.2	13.0	16.1	17.7	16.3	13.4	14.7	8.5
Total Number of Rooms (Excluding Bathrooms)								
1 or 2	3.0	10.0	4.4	1.3	Q	7.5	5.9	12.9
3	9.0	21.9	11.6	7.5	2.0	16.8	14.6	9.1
4	18.0	26.4	24.0	17.9	8.0	25.2	24.3	6.5
5	20.9	20.6	25.9	22.6	14.1	23.1	24.4	5.3
6	19.7	14.1	19.4	22.0	20.3	17.4	18.1	6.2
7	14.0	3.9	9.2	16.5	21.2	6.3	7.2	8.1
8	8.3	1.7	3.1	7.9	17.1	1.6	3.0	12.3
9 or More	6.9	Q	2.5	4.3	17.2	2.1	2.5	13.7
Bedrooms								
None or 1	13.0	32.9	16.6	9.7	3.4	24.8	21.4	7.6
2	28.4	37.3	37.2	29.0	14.2	35.0	35.9	4.7
3	40.4	23.0	36.7	44.4	48.0	30.5	32.5	4.1
4 or More	18.3	6.8	9.5	16.9	34.5	9.7	10.3	7.5

See footnotes at end of table.

Table HC1-3b. Housing Unit Characteristics by Household Income, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.4	1.0	0.9	1.1	1.3	1.0	
Other Rooms (Excluding Bathrooms)								
None or 1	5.0	13.0	7.1	3.2	0.9	10.2	8.6	11.3
2	38.1	55.8	47.9	38.3	19.1	55.2	50.8	3.4
3	30.5	23.6	30.8	33.1	30.7	26.9	29.3	4.8
4	17.3	5.4	10.6	18.3	28.9	4.8	7.7	7.4
5 or More	9.1	2.2	3.6	7.1	20.4	2.9	3.5	12.5
Full Bathrooms								
None or 1	58.5	86.6	73.2	57.2	31.2	81.8	79.1	2.1
2	35.4	12.0	25.0	38.6	53.9	16.2	19.1	4.8
3 or More	6.1	Q	1.7	4.2	14.9	2.1	1.7	17.3
Half Bathrooms								
None	72.0	89.1	80.2	72.7	54.4	86.8	83.3	1.5
1	26.1	10.1	19.0	25.5	42.0	12.5	15.8	5.7
2 or More	Q	Q	Q	Q	Q	Q	Q	NF
Number of Stories								
Single-Family Homes	72.7	49.6	63.8	75.3	90.1	52.9	58.9	2.5
1 Story	40.5	37.4	43.5	42.6	36.4	38.4	39.9	4.3
2 Stories	26.5	10.5	17.5	28.1	41.9	13.0	16.7	6.5
3 Stories	3.2	Q	1.8	2.2	6.7	Q	1.8	16.4
Split-Level	2.4	Q	0.9	2.4	4.9	Q	Q	19.3
Other	Q	Q	Q	Q	Q	Q	Q	NF
Mobile Homes	6.2	7.8	10.8	5.4	1.6	9.5	8.8	13.0
Number of Floors in Apartment Buildings								
1 or 2 Floors	10.7	21.0	14.6	9.7	3.0	18.8	17.1	10.1
3 or 4 Floors	5.3	7.4	6.5	5.8	2.7	7.8	6.9	18.2
5 to 10 Floors	2.0	5.7	1.9	1.5	1.0	4.8	3.5	20.1
11 to 20 Floors	0.8	3.6	0.5	Q	Q	2.6	1.7	31.0
More than 20 Floors	0.2	Q	Q	Q	Q	Q	Q	45.3
Don't Know/No Answer	2.0	4.8	1.6	1.8	1.2	3.5	3.0	21.1
Foundation/Basement of Single-Family Homes (More than one may apply)								
Basement	32.7	15.6	24.6	35.6	46.2	16.0	22.8	6.0
Crawlspace	22.2	19.6	23.4	23.0	21.1	21.3	20.9	6.7
Concrete Slab	22.6	16.1	19.4	21.3	30.5	17.9	18.0	7.0
Not Asked (Mobile Homes and Multi-Family Units)	27.3	50.4	36.2	24.7	9.9	47.1	41.1	5.3
Garage/Carport								
Yes	53.7	24.6	42.5	56.3	76.3	25.2	34.0	3.6
1-Car Garage	16.0	11.5	16.5	18.1	15.3	10.0	14.4	7.8
2-Car Garage	29.2	7.9	17.7	30.2	50.3	10.0	12.7	6.7
3-Car Garage	2.7	Q	1.0	2.2	6.1	Q	1.1	18.3
Covered Carport	6.3	4.9	7.7	6.6	5.3	4.8	6.1	11.6
No	25.2	32.8	32.1	24.3	15.4	37.2	33.6	5.6
Not Asked (Apartments)	21.1	42.6	25.4	19.4	8.3	37.6	32.3	6.4

See footnotes at end of table.

Table HC1-3b. Housing Unit Characteristics by Household Income, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.4	1.0	0.9	1.1	1.3	1.0	
Fuels Used For Any Use (more than one often used)								
Electricity	100.0	99.7	100.0	100.0	100.0	99.9	99.9	NE
Natural Gas	61.0	60.0	58.4	60.9	64.3	62.4	59.9	3.4
Wood	14.8	5.2	10.2	15.0	24.1	7.4	8.8	8.8
Fuel Oil	9.8	9.7	8.6	10.1	10.7	9.5	10.0	10.5
LPG	8.0	7.8	8.4	8.6	6.9	7.9	8.2	12.5
Kerosene	3.4	3.0	4.3	3.8	2.3	4.3	4.1	14.2
Solar	0.7	Q	Q	0.6	1.2	Q	Q	38.5
Main Heating Fuel								
Natural Gas	52.7	46.8	50.6	53.4	56.9	49.0	49.2	4.0
Electricity	29.2	33.2	31.1	27.2	27.4	30.1	30.6	5.9
Fuel Oil	9.3	9.5	8.2	9.8	9.9	9.1	9.6	10.6
LPG	4.5	4.5	5.0	5.6	2.8	4.8	4.8	14.9
Wood	2.2	2.1	2.6	2.0	1.8	2.1	2.4	18.2
Kerosene	1.0	1.7	1.2	1.1	Q	2.0	1.3	23.9
Solar	Q	Q	Q	Q	Q	Q	Q	NF
Other/None	1.1	2.3	1.3	0.8	0.8	3.1	2.1	24.9

¹ Below 150 percent of poverty line or 60 percent of median State income.

² One of five climatically distinct areas, determined according to the 30-year average (1961-1990) of the annual heating and cooling degree-days. For this report, the heating or cooling degree-days are a measure of how cold or how hot a location is over a period of one year, relative to a base temperature of 65 degrees Fahrenheit. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station.

³ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

⁴ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

⁵ Based on the household respondent's description rather than the Federal Government definition.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC1-4b. Housing Unit Characteristics by Type of Housing Unit,
Percent of U.S. Households, 1997**

Housing Unit Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.5	1.6	1.2	1.7	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Census Region and Division						
Northeast	19.4	18.6	30.1	24.1	7.7	7.8
New England	5.2	5.1	12.5	4.6	1.8	15.4
Middle Atlantic	14.2	13.5	17.6	19.5	5.9	9.2
Midwest	23.7	25.0	30.3	17.7	17.5	7.7
East North Central	16.7	17.0	25.8	13.7	11.9	8.5
West North Central	7.0	8.0	4.5	4.1	5.6	17.5
South	35.4	36.1	25.2	30.5	47.3	6.3
South Atlantic	18.4	18.5	12.1	18.3	23.6	10.6
East South Central	6.3	6.5	6.1	2.7	12.5	14.6
West South Central	10.7	11.2	7.1	9.5	11.2	10.0
West	21.5	20.2	14.4	27.7	27.6	8.3
Mountain	6.1	6.1	3.5	5.3	10.5	15.8
Pacific	15.4	14.1	10.9	22.4	17.1	10.7
Metropolitan Statistical Area						
Urban	77.5	75.6	80.1	93.5	56.6	2.2
Central City	36.2	32.2	53.6	55.6	19.5	7.9
Suburban	41.3	43.4	26.5	38.0	37.2	7.9
Rural	22.5	24.4	19.9	6.5	43.4	8.1
Climate Zone¹						
Fewer than 2,000 CDD and--						
More than 7,000 HDD	9.1	10.5	8.5	3.7	7.2	25.4
5,500 to 7,000 HDD	27.6	27.7	39.5	25.4	21.4	11.9
4,000 to 5,499 HDD	22.2	21.4	23.1	27.3	17.3	13.2
Fewer than 4,000 HDD	19.2	18.6	15.0	21.9	23.2	13.7
2,000 CDD or More and --						
Fewer than 4,000 HDD	21.9	21.7	14.0	21.6	30.9	12.1
Estimated Heated Floorspace Category (square feet)²						
Fewer than 600	7.8	2.6	23.6	23.4	14.4	10.2
600 to 999	21.2	12.9	40.4	45.4	40.3	5.5
1,000 to 1,599	29.9	34.0	15.3	16.5	29.1	7.2
1,600 to 1,999	15.1	19.5	Q	2.2	6.6	9.6
2,000 to 2,399	7.8	10.4	Q	Q	Q	10.0
2,400 to 2,999	5.3	7.1	Q	Q	Q	13.6
3,000 or More	4.1	5.5	Q	Q	Q	19.6
No Estimate Provided	9.0	8.0	16.5	11.7	7.0	12.3
Year of Construction						
1939 or Before	18.5	19.6	31.5	14.9	Q	9.3
1940 to 1949	9.1	9.9	13.3	6.9	Q	10.7
1950 to 1959	12.4	14.5	7.4	8.2	2.7	10.9
1960 to 1969	14.2	13.5	15.7	17.2	14.7	9.1
1970 to 1979	19.3	16.7	16.6	26.8	33.2	7.1
1980 to 1989	17.1	16.2	12.7	19.1	26.1	10.1
1990 to 1997 ³	9.6	9.7	Q	7.0	20.8	15.2
Urban/Rural Location⁴						
City	47.5	42.5	68.6	71.0	28.6	5.0
Town	17.9	18.8	20.9	14.0	15.8	11.4
Suburbs	18.3	20.9	8.0	12.7	11.6	12.0
Rural or Open Country	16.2	17.8	2.5	2.4	44.0	12.3

See footnotes at end of table.

**Table HC1-4b. Housing Unit Characteristics by Type of Housing Unit,
Percent of U.S. Households, 1997 (Continued)**

Housing Unit Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.5	1.6	1.2	1.7	
Total Number of Rooms (Excluding Bathrooms)						
1 or 2	3.0	0.6	5.6	13.4	3.1	18.6
3	9.0	2.2	28.1	35.5	6.0	9.3
4	18.0	10.6	34.9	36.8	42.9	6.1
5	20.9	22.2	18.6	11.1	33.1	6.7
6	19.7	25.0	8.8	2.9	9.5	9.6
7	14.0	18.7	Q	Q	3.8	9.6
8	8.3	11.2	Q	Q	Q	10.8
9 or More	6.9	9.4	Q	Q	Q	11.9
Bedrooms						
None or 1	13.0	3.5	37.3	51.2	5.8	8.3
2	28.4	22.3	45.1	42.4	49.4	4.8
3	40.4	49.9	13.5	5.3	40.4	6.2
4 or More	18.3	24.2	4.1	1.1	4.4	14.2
Other Rooms (Excluding Bathrooms)						
None or 1	5.0	1.9	7.2	16.0	11.5	12.4
2	38.1	26.9	64.7	69.0	67.0	3.2
3	30.5	35.9	22.8	13.4	17.8	7.0
4	17.3	22.9	4.8	1.5	2.7	13.6
5 or More	9.1	12.4	Q	Q	Q	10.2
Full Bathrooms						
None or 1	58.5	50.6	90.3	85.2	55.5	2.6
2	35.4	41.1	9.7	14.7	44.2	6.9
3 or More	6.1	8.3	Q	Q	Q	16.0
Half Bathrooms						
None	72.0	65.4	91.5	88.6	89.7	1.6
1	26.1	32.0	8.5	11.4	10.3	8.7
2 or More	Q	Q	Q	Q	Q	NF
Number of Stories						
Single-Family Homes	72.7	100.0	--	--	--	2.6
1 Story	40.5	55.7	--	--	--	4.7
2 Stories	26.5	36.5	--	--	--	6.4
3 Stories	3.2	4.4	--	--	--	17.0
Split-Level	2.4	3.3	--	--	--	21.7
Other	Q	Q	--	--	--	NF
Mobile Homes	6.2	Q	--	--	100.0	16.0
Number of Floors in Apartment Buildings						
1 or 2 Floors	10.7	--	72.1	43.3	--	6.4
3 or 4 Floors	5.3	--	12.8	29.7	--	15.7
5 to 10 Floors	2.0	--	Q	12.9	--	14.2
11 to 20 Floors	0.8	--	Q	5.2	--	27.0
More than 20 Floors	0.2	--	Q	1.2	--	35.7
Don't Know/No Answer	2.0	--	14.7	7.6	--	17.2

See footnotes at end of table.

Table HC1-4b. Housing Unit Characteristics by Type of Housing Unit, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.5	1.6	1.2	1.7	
Foundation/Basement of Single-Family Homes (More than one may apply)						
Basement	32.7	45.0	--	--	--	6.5
Crawlspace	22.2	30.5	--	--	--	8.5
Concrete Slab	22.6	31.2	--	--	--	7.9
Not Asked (Mobile Homes and Multi-Family Units)	27.3	--	100.0	100.0	100.0	7.0
Garage/Carport						
Yes	53.7	71.7	--	--	25.1	4.3
1-Car Garage	16.0	21.7	--	--	4.1	10.7
2-Car Garage	29.2	39.8	--	--	4.7	8.8
3-Car Garage	2.7	3.7	--	--	Q	16.6
Covered Carport	6.3	7.4	--	--	16.0	12.5
No	25.2	28.3	--	--	74.9	5.2
Not Asked (Apartments)	21.1	Q	100.0	100.0	Q	8.4
Fuels Used For Any Use (more than one often used)						
Electricity	100.0	100.0	100.0	99.9	100.0	NE
Natural Gas	61.0	63.7	68.2	55.5	36.7	4.9
Wood	14.8	19.0	Q	1.4	10.6	12.1
Fuel Oil	9.8	10.2	8.5	11.6	Q	14.0
LPG	8.0	8.4	Q	Q	27.0	14.0
Kerosene	3.4	3.7	Q	Q	9.2	14.5
Solar	0.7	0.9	Q	Q	Q	48.7
Main Heating Fuel						
Natural Gas	52.7	57.6	61.3	34.6	33.3	6.0
Electricity	29.2	24.0	28.9	49.9	37.3	7.3
Fuel Oil	9.3	9.6	8.1	11.3	Q	14.1
LPG	4.5	4.8	Q	Q	15.7	16.5
Wood	2.2	2.6	Q	Q	4.3	20.3
Kerosene	1.0	0.7	Q	Q	5.9	25.4
Solar	Q	Q	Q	Q	Q	NF
Other/None	1.1	0.7	Q	3.4	Q	31.4

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

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

³ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

⁴ Based on the household respondent's description rather than the Federal Government definition.

-- = Data not applicable.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

Table HC1-5b. Housing Unit Characteristics by Type of Owner-Occupied Housing Unit, Percent of U.S. Households, 1997

Housing Unit Characteristics	Total Owner-Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.4	1.9	2.0	1.3	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Census Region and Division						
Northeast	18.6	19.3	36.2	25.8	6.7	11.6
New England	5.3	5.4	13.8	Q	Q	18.2
Middle Atlantic	13.3	13.8	22.4	18.4	5.1	13.3
Midwest	25.3	25.8	44.2	Q	18.5	9.6
East North Central	17.3	17.5	36.6	Q	12.7	11.4
West North Central	8.0	8.3	Q	Q	5.9	20.1
South	37.0	36.7	Q	31.0	46.8	7.2
South Atlantic	18.9	18.9	Q	19.0	20.6	12.2
East South Central	7.2	6.8	Q	Q	13.1	10.8
West South Central	10.9	10.9	Q	Q	13.1	10.9
West	19.1	18.3	Q	32.0	27.9	11.0
Mountain	6.1	5.8	Q	Q	10.4	17.9
Pacific	12.9	12.5	Q	25.5	17.5	14.0
Metropolitan Statistical Area						
Urban	74.4	75.4	79.5	86.4	59.7	3.8
Central City	30.1	30.3	51.1	44.0	21.0	13.5
Suburban	44.3	45.1	28.4	42.4	38.7	11.5
Rural	25.6	24.6	20.5	13.6	40.3	12.0
Climate Zone¹						
Fewer than 2,000 CDD and--						
More than 7,000 HDD	10.3	10.7	Q	Q	6.9	35.2
5,500 to 7,000 HDD	28.2	28.4	56.8	26.4	21.2	16.9
4,000 to 5,499 HDD	21.6	21.7	23.4	34.4	17.6	18.7
Fewer than 4,000 HDD	17.6	17.4	Q	Q	23.5	24.4
2,000 CDD or More and --						
Fewer than 4,000 HDD	22.3	21.7	Q	26.2	30.9	17.6
Estimated Heated Floorspace Category (square feet)²						
Fewer than 600	2.4	1.2	Q	Q	12.7	26.6
600 to 999	12.5	9.5	33.1	36.2	38.3	11.7
1,000 to 1,599	33.5	33.8	25.4	30.1	32.2	9.1
1,600 to 1,999	19.8	21.3	Q	Q	7.3	10.6
2,000 to 2,399	10.7	11.7	Q	Q	Q	12.9
2,400 to 2,999	7.5	8.3	Q	Q	Q	16.7
3,000 or More	6.0	6.6	Q	Q	Q	23.7
No Estimate Provided	7.6	7.5	Q	Q	6.5	17.8
Year of Construction						
1939 or Before	17.8	19.1	49.1	Q	Q	10.8
1940 to 1949	8.4	9.2	Q	Q	Q	16.5
1950 to 1959	13.0	14.2	Q	Q	Q	13.5
1960 to 1969	13.4	13.3	Q	19.6	14.6	13.5
1970 to 1979	18.7	16.9	23.9	48.4	31.9	11.1
1980 to 1989	17.5	17.0	Q	Q	27.1	12.2
1990 to 1997 ³	11.1	10.3	Q	Q	23.6	17.3
Urban/Rural Location⁴						
City	40.1	40.1	66.9	68.3	28.9	8.2
Town	18.2	18.6	19.9	Q	15.4	17.0
Suburbs	21.4	22.2	Q	20.9	13.1	13.7
Rural or Open Country	20.3	19.0	Q	Q	42.6	11.0

See footnotes at end of table.

Table HC1-5b. Housing Unit Characteristics by Type of Owner-Occupied Housing Unit, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total Owner-Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.4	1.9	2.0	1.3	
Total Number of Rooms (Excluding Bathrooms)						
1 or 2	0.4	Q	Q	Q	2.7	48.7
3	1.8	0.9	Q	24.6	5.5	23.7
4	10.9	7.3	38.3	46.4	39.5	9.9
5	21.9	20.9	25.0	15.1	35.1	9.9
6	24.4	26.1	Q	Q	10.8	9.7
7	19.1	20.8	Q	Q	4.5	11.8
8	11.6	12.9	Q	Q	Q	12.9
9 or More	9.9	10.9	Q	Q	Q	15.4
Bedrooms						
None or 1	2.9	1.8	Q	38.1	5.8	19.7
2	21.5	18.3	49.9	54.0	46.9	7.7
3	50.8	52.8	23.9	Q	42.1	6.8
4 or More	24.8	27.1	Q	Q	5.3	11.4
Other Rooms (Excluding Bathrooms)						
None or 1	1.8	1.1	Q	Q	9.2	27.5
2	27.0	22.5	55.8	60.2	66.3	6.4
3	34.9	36.5	24.5	29.3	20.0	10.5
4	23.4	25.6	Q	Q	3.3	12.6
5 or More	12.9	14.3	Q	Q	Q	12.8
Full Bathrooms						
None or 1	46.3	45.3	70.2	64.9	49.9	5.7
2	45.0	45.0	29.8	33.7	49.7	7.7
3 or More	8.7	9.7	Q	Q	Q	20.3
Half Bathrooms						
None	65.3	62.4	85.5	87.3	90.6	2.9
1	32.1	34.7	Q	Q	9.4	9.1
2 or More	Q	Q	Q	Q	Q	NF
Number of Stories						
Single-Family Homes	89.3	100.0	--	--	--	NE
1 Story	48.6	54.4	--	--	--	6.0
2 Stories	33.4	37.4	--	--	--	8.4
3 Stories	4.0	4.4	--	--	--	25.1
Split-Level	3.3	3.6	--	--	--	27.5
Other	Q	Q	--	--	--	NF
Mobile Homes	7.7	Q	--	--	100.0	21.8
Number of Floors in Apartment Buildings						
1 or 2 Floors	1.3	--	55.8	29.5	--	15.9
3 or 4 Floors	0.7	--	Q	34.7	--	33.7
5 to 10 Floors	0.3	--	Q	18.0	--	25.9
11 to 20 Floors	Q	--	Q	Q	--	Q
More than 20 Floors	Q	--	Q	Q	--	Q
Don't Know/No Answer	0.6	--	34.6	Q	--	20.7

See footnotes at end of table.

Table HC1-5b. Housing Unit Characteristics by Type of Owner-Occupied Housing Unit, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total Owner-Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.4	1.9	2.0	1.3	
Foundation/Basement of Single-Family Homes (More than one may apply)						
Basement	42.2	47.3	--	--	--	8.0
Crawlspace	26.6	29.7	--	--	--	10.4
Concrete Slab	27.0	30.2	--	--	--	10.9
Not Asked (Mobile Homes and Multi-Family Units)	10.7	--	100.0	100.0	100.0	18.1
Garage/Carport						
Yes	70.8	76.9	--	--	27.7	5.3
1-Car Garage	19.7	21.7	--	--	4.4	14.0
2-Car Garage	39.9	44.3	--	--	5.0	11.3
3-Car Garage	4.0	4.4	--	--	Q	19.3
Covered Carport	8.0	7.5	--	--	18.2	16.6
No	26.2	23.1	--	--	72.3	8.0
Not Asked (Apartments)	3.0	--	100.0	100.0	--	38.8
Fuels Used For Any Use (more than one often used)						
Electricity	100.0	100.0	100.0	100.0	100.0	NE
Natural Gas	61.2	62.9	85.5	53.8	38.8	6.6
Wood	19.2	20.4	Q	Q	12.0	11.5
Fuel Oil	10.2	10.9	Q	15.7	Q	18.2
LPG	9.8	8.8	Q	Q	25.3	17.9
Kerosene	3.9	3.7	Q	Q	8.3	19.8
Solar	0.9	1.0	Q	Q	Q	62.9
Main Heating Fuel						
Natural Gas	55.2	57.0	81.9	29.7	35.1	8.0
Electricity	25.3	23.9	Q	49.7	38.5	10.4
Fuel Oil	9.6	10.3	Q	15.7	Q	17.8
LPG	5.4	4.8	Q	Q	15.0	21.7
Wood	2.7	2.6	Q	Q	4.5	28.3
Kerosene	1.0	0.6	Q	Q	5.3	38.3
Solar	Q	Q	Q	Q	Q	NF
Other/None	0.7	0.7	Q	Q	Q	NF

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

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

³ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

⁴ Based on the household respondent's description rather than the Federal Government definition.

-- = Data not applicable.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC1-6b. Housing Unit Characteristics by Type of Rented Housing Unit,
Percent of U.S. Households, 1997**

Housing Unit Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.6	0.7	1.3	0.9	2.0	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Census Region and Division						
Northeast	21.1	15.7	28.9	23.9	Q	10.1
New England	5.1	3.5	12.3	4.4	Q	21.5
Middle Atlantic	16.0	12.2	16.6	19.5	Q	11.8
Midwest	20.5	21.2	27.6	18.3	12.1	14.2
East North Central	15.4	14.4	23.7	14.0	Q	14.3
West North Central	5.1	6.7	3.9	4.3	Q	31.8
South	31.8	33.6	27.5	30.4	49.6	9.2
South Atlantic	17.4	16.3	12.7	18.2	38.2	13.9
East South Central	4.2	5.0	6.6	2.4	Q	25.4
West South Central	10.3	12.3	8.2	9.8	Q	15.8
West	26.5	29.5	16.0	27.3	26.1	10.9
Mountain	6.0	7.5	3.4	5.2	Q	23.1
Pacific	20.5	22.0	12.6	22.1	15.1	13.8
Metropolitan Statistical Area						
Urban	83.9	77.0	80.3	94.1	41.6	3.4
Central City	49.0	41.6	54.1	56.5	11.8	9.5
Suburban	34.9	35.4	26.2	37.6	29.8	11.7
Rural	16.1	23.0	19.7	5.9	58.4	12.8
Climate Zone¹						
Fewer than 2,000 CDD and--						
More than 7,000 HDD	6.8	9.3	8.6	3.8	Q	30.8
5,500 to 7,000 HDD	26.4	24.3	36.0	25.3	22.3	14.2
4,000 to 5,499 HDD	23.3	20.0	23.0	26.7	16.0	15.0
Fewer than 4,000 HDD	22.6	24.6	17.2	22.8	21.8	13.5
2,000 CDD or More and --						
Fewer than 4,000 HDD	20.9	21.8	15.2	21.3	31.1	13.6
Estimated Heated Floorspace Category (square feet)²						
Fewer than 600	18.8	9.5	26.3	24.1	22.7	10.9
600 to 999	39.2	29.4	41.9	46.1	49.9	6.1
1,000 to 1,599	22.5	34.7	13.3	15.5	14.0	12.3
1,600 to 1,999	5.2	10.8	Q	1.9	Q	18.4
2,000 to 2,399	1.7	4.0	Q	Q	Q	28.7
2,400 to 2,999	0.7	1.3	Q	Q	Q	47.6
3,000 or More	Q	Q	Q	Q	Q	NF
No Estimate Provided	12.0	10.3	16.7	12.1	Q	15.8
Year of Construction						
1939 or Before	19.8	22.4	28.0	15.7	Q	12.2
1940 to 1949	10.3	13.4	13.9	7.1	Q	14.0
1950 to 1959	11.1	15.8	8.4	8.3	Q	12.9
1960 to 1969	15.9	14.0	17.6	17.0	15.4	12.8
1970 to 1979	20.5	15.5	15.2	25.1	39.4	10.9
1980 to 1989	16.1	12.3	13.5	19.9	21.4	15.4
1990 to 1997 ³	6.3	6.6	Q	6.9	Q	28.1
Urban/Rural Location⁴						
City	62.9	54.2	69.0	71.2	27.2	6.1
Town	17.4	19.6	21.1	14.4	17.6	14.4
Suburbs	12.0	14.2	7.4	12.0	Q	19.6
Rural or Open Country	7.7	12.0	2.6	2.4	50.9	18.3

See footnotes at end of table.

Table HC1-6b. Housing Unit Characteristics by Type of Rented Housing Unit, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.6	0.7	1.3	0.9	2.0	
Total Number of Rooms (Excluding Bathrooms)						
1 or 2	8.4	2.6	6.7	14.1	Q	19.1
3	24.1	8.1	32.4	36.4	Q	9.5
4	32.9	26.6	34.3	36.0	59.6	7.3
5	18.9	28.7	17.3	10.8	23.2	10.6
6	9.9	19.8	8.1	2.5	Q	15.6
7	3.6	8.8	Q	Q	Q	18.0
8	1.3	3.3	Q	Q	Q	32.4
9 or More	0.8	2.0	Q	Q	Q	39.7
Bedrooms						
None or 1	33.9	11.7	42.3	52.3	Q	7.2
2	42.7	41.9	44.1	41.5	62.0	6.0
3	18.7	36.0	11.5	5.2	32.0	11.5
4 or More	4.8	10.4	Q	Q	Q	18.9
Other Rooms (Excluding Bathrooms)						
None or 1	11.5	5.5	8.6	16.7	22.7	14.8
2	61.0	48.2	66.5	69.7	70.4	3.8
3	21.4	33.0	22.5	12.2	Q	10.5
4	4.8	9.9	Q	1.4	Q	23.6
5 or More	1.3	3.3	Q	Q	Q	32.8
Full Bathrooms						
None or 1	83.8	76.4	94.3	86.8	83.1	2.3
2	15.6	21.9	5.7	13.2	16.9	14.9
3 or More	0.6	1.7	Q	Q	Q	46.2
Half Bathrooms						
None	85.7	79.6	92.7	88.7	85.4	2.3
1	13.7	18.9	7.3	11.3	14.6	15.2
2 or More	Q	Q	Q	Q	Q	NF
Number of Stories						
Single-Family Homes	38.2	100.0	--	--	--	7.2
1 Story	23.7	62.0	--	--	--	6.7
2 Stories	12.4	32.4	--	--	--	10.1
3 Stories	1.5	4.0	--	--	--	29.6
Split-Level	0.5	1.4	--	--	--	69.7
Other	Q	Q	--	--	--	NF
Mobile Homes	3.2	Q	--	--	100.0	25.4
Number of Floors in Apartment Buildings						
1 or 2 Floors	30.4	--	75.4	44.4	--	7.0
3 or 4 Floors	14.9	--	13.5	29.4	--	17.7
5 to 10 Floors	5.6	--	Q	12.5	--	16.2
11 to 20 Floors	2.2	--	Q	5.0	--	30.8
More than 20 Floors	0.6	--	Q	1.3	--	39.4
Don't Know/No Answer	4.8	--	10.8	7.3	--	25.2

See footnotes at end of table.

Table HC1-6b. Housing Unit Characteristics by Type of Rented Housing Unit, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.6	0.7	1.3	0.9	2.0	
Foundation/Basement of Single-Family Homes (More than one may apply)						
Basement	13.0	34.0	--	--	--	9.9
Crawlspace	13.1	34.2	--	--	--	12.3
Concrete Slab	13.6	35.6	--	--	--	10.0
Not Asked (Mobile Homes and Multi-Family Units)	61.8	--	100.0	100.0	100.0	4.5
Garage/Carport						
Yes	18.2	46.6	--	--	12.5	9.6
1-Car Garage	8.4	21.7	--	--	Q	14.9
2-Car Garage	7.1	18.2	--	--	Q	14.7
3-Car Garage	Q	Q	--	--	Q	NF
Covered Carport	2.8	6.9	--	--	Q	23.0
No	23.2	53.4	--	--	87.5	4.6
Not Asked (Apartments)	58.6	--	100.0	100.0	--	4.6
Fuels Used For Any Use (more than one often used)						
Electricity	99.9	100.0	100.0	99.9	100.0	NE
Natural Gas	60.6	67.7	64.8	55.7	26.4	7.0
Wood	5.6	12.1	Q	1.5	Q	21.5
Fuel Oil	9.1	6.7	8.8	11.3	Q	17.8
LPG	4.1	6.4	Q	Q	35.1	19.3
Kerosene	2.4	3.9	Q	Q	13.6	27.1
Solar	Q	Q	Q	Q	Q	NF
Main Heating Fuel						
Natural Gas	47.5	60.2	57.2	35.0	24.8	8.5
Electricity	37.2	24.8	32.4	49.9	31.4	9.5
Fuel Oil	8.6	6.2	8.3	11.0	Q	18.3
LPG	2.6	4.5	Q	Q	19.1	22.8
Wood	1.1	2.4	Q	Q	Q	32.9
Kerosene	0.9	1.1	Q	Q	Q	56.3
Solar	Q	Q	Q	Q	Q	NF
Other/None	2.0	0.8	Q	3.4	Q	NF

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

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

³ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

⁴ Based on the household respondent's description rather than the Federal Government definition.

-- = Data not applicable.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC1-7b. Housing Unit Characteristics by Four Most Populated States,
Percent of U.S. Households, 1997**

Housing Unit Characteristics	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.1	1.1	1.2	1.6	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Census Region and Division						
Northeast	19.4	100.0	--	--	--	NF
New England	5.2	Q	--	--	--	NF
Middle Atlantic	14.2	100.0	--	--	--	NF
Midwest	23.7	--	--	--	--	NF
East North Central	16.7	--	--	--	--	NF
West North Central	7.0	--	--	--	--	NF
South	35.4	--	--	100.0	100.0	NF
South Atlantic	18.4	--	--	Q	100.0	NF
East South Central	6.3	--	--	Q	Q	NF
West South Central	10.7	--	--	100.0	Q	NF
West	21.5	--	100.0	--	--	NF
Mountain	6.1	--	Q	--	--	NF
Pacific	15.4	--	100.0	--	--	NF
Metropolitan Statistical Area						
Urban	77.5	91.4	95.5	83.2	91.7	1.2
Central City	36.2	50.4	39.2	45.6	43.0	10.7
Suburban	41.3	41.1	56.3	37.6	48.7	10.1
Rural	22.5	8.6	4.5	16.8	8.3	10.5
Climate Zone¹						
Fewer than 2,000 CDD and-- More than 7,000 HDD	9.1	7.7	Q	Q	Q	20.3
5,500 to 7,000 HDD	27.6	35.6	Q	Q	Q	11.2
4,000 to 5,499 HDD	22.2	56.7	5.1	Q	Q	9.1
Fewer than 4,000 HDD	19.2	Q	86.2	Q	Q	4.9
2,000 CDD or More and -- Fewer than 4,000 HDD	21.9	Q	8.6	92.3	100.0	10.1
Estimated Heated Floorspace Category (square feet)²						
Fewer than 600	7.8	12.9	12.4	6.7	4.3	14.4
600 to 999	21.2	23.7	23.4	20.3	13.8	9.8
1,000 to 1,599	29.9	24.7	26.5	28.8	42.8	7.0
1,600 to 1,999	15.1	10.0	13.4	15.4	15.1	11.9
2,000 to 2,399	7.8	6.4	8.4	9.4	7.0	16.0
2,400 to 2,999	5.3	4.1	5.1	5.9	5.3	19.3
3,000 or More	4.1	3.1	2.2	Q	5.4	28.1
No Estimate Provided	9.0	15.0	8.6	6.2	6.4	18.2
Ownership of Unit						
Owned	67.5	55.3	54.1	63.9	74.8	4.1
Rented	32.5	44.7	45.9	36.1	25.2	7.1

See footnotes at end of table.

Table HC1-7b. Housing Unit Characteristics by Four Most Populated States, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.1	1.1	1.2	1.6	
Type and Ownership of Housing Unit						
Single-Family Detached	62.9	43.6	56.9	71.7	62.8	4.3
Owned	54.8	40.9	44.9	58.9	56.9	4.8
Rented	8.0	2.7	12.0	12.8	5.9	16.2
Single-Family Attached	9.8	12.7	11.2	3.2	14.3	21.8
Owned	5.4	7.7	4.3	Q	11.6	25.1
Rented	4.4	5.0	6.8	2.3	Q	25.4
Multifamily (2 to 4 units)	5.5	7.3	4.4	3.8	Q	24.5
Owned	0.9	2.1	Q	Q	Q	40.8
Rented	4.6	5.2	4.2	3.8	Q	23.5
Multifamily (5 or more units)	15.6	33.9	23.2	17.4	17.0	12.1
Owned	1.1	2.9	Q	Q	Q	24.6
Rented	14.4	31.0	22.3	17.1	13.7	12.5
Mobile Home	6.2	Q	4.4	4.0	Q	28.6
Owned	5.2	Q	3.8	3.9	1.9	27.7
Rented	1.1	Q	Q	Q	Q	36.5
Year of Construction						
1939 or Before	18.5	36.5	9.5	8.4	5.5	11.4
1940 to 1949	9.1	10.7	14.6	9.4	1.6	14.9
1950 to 1959	12.4	15.4	14.4	10.4	11.1	11.3
1960 to 1969	14.2	13.4	16.7	20.1	9.1	11.9
1970 to 1979	19.3	10.4	19.4	21.1	27.5	10.8
1980 to 1989	17.1	5.4	18.1	17.6	34.1	16.5
1990 to 1997 ³	9.6	8.1	7.3	12.9	11.2	21.0
Urban/Rural Location⁴						
City	47.5	45.2	69.7	54.9	55.4	6.1
Town	17.9	13.2	13.4	17.5	9.6	20.2
Suburbs	18.3	27.1	10.5	16.6	25.1	15.9
Rural or Open Country	16.2	14.5	6.4	11.0	9.9	14.9
Total Number of Rooms (Excluding Bathrooms)						
1 or 2	3.0	4.0	7.7	4.0	Q	18.5
3	9.0	16.6	14.7	12.9	5.8	12.3
4	18.0	21.9	19.8	13.6	15.5	13.5
5	20.9	13.4	19.5	23.5	22.9	8.7
6	19.7	19.4	17.2	18.2	20.8	7.5
7	14.0	9.9	10.9	12.8	18.7	13.1
8	8.3	7.4	5.5	6.1	7.4	19.5
9 or More	6.9	7.5	4.6	8.8	7.0	17.3
Bedrooms						
None or 1	13.0	22.1	21.3	17.8	7.7	12.0
2	28.4	28.2	29.6	20.7	32.2	9.6
3	40.4	32.0	31.7	42.4	46.5	6.2
4 or More	18.3	17.7	17.4	19.1	13.5	12.2

See footnotes at end of table.

Table HC1-7b. Housing Unit Characteristics by Four Most Populated States, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.1	1.1	1.2	1.6	
Other Rooms (Excluding Bathrooms)						
None or 1	5.0	6.7	11.6	6.6	Q	17.5
2	38.1	41.4	43.5	40.4	28.4	6.4
3	30.5	28.7	28.9	28.3	39.3	6.6
4	17.3	15.0	11.0	16.0	20.0	10.5
5 or More	9.1	8.3	5.0	8.6	9.5	13.7
Full Bathrooms						
None or 1	58.5	73.2	54.0	52.6	34.4	5.0
2	35.4	24.4	36.4	39.4	55.6	7.7
3 or More	6.1	2.4	9.6	Q	10.0	20.4
Half Bathrooms						
None	72.0	68.3	78.4	77.8	79.6	3.2
1	26.1	28.8	20.9	21.4	19.6	9.0
2 or More	Q	Q	Q	Q	Q	NF
Number of Stories						
Single-Family Homes	72.7	56.3	68.0	74.8	77.1	4.5
1 Story	40.5	15.5	46.6	59.3	66.4	6.9
2 Stories	26.5	35.4	18.8	15.3	10.7	14.2
3 Stories	3.2	3.9	1.1	Q	Q	26.5
Split-Level	2.4	1.3	Q	Q	Q	24.5
Other	Q	Q	Q	Q	Q	NF
Mobile Homes	6.2	Q	4.4	4.0	Q	28.6
Number of Floors in Apartment Buildings						
1 or 2 Floors	10.7	Q	18.6	17.5	13.4	14.9
3 or 4 Floors	5.3	10.2	5.3	Q	Q	21.7
5 to 10 Floors	2.0	17.2	Q	Q	1.7	16.4
11 to 20 Floors	0.8	4.5	Q	Q	Q	14.2
More than 20 Floors	0.2	Q	0.3	Q	Q	21.9
Don't Know/No Answer	2.0	3.9	2.1	1.0	Q	25.3
Foundation/Basement of Single-Family Homes (More than one may apply)						
Basement	32.7	48.5	4.9	Q	Q	9.0
Crawlspace	22.2	4.6	30.6	26.0	10.2	15.8
Concrete Slab	22.6	7.2	35.2	48.7	66.2	8.5
Not Asked (Mobile Homes and Multi-Family Units)	27.3	43.7	32.0	25.2	22.9	10.6
Garage/Carport						
Yes	53.7	40.7	59.4	58.8	51.7	5.1
1-Car Garage	16.0	16.9	12.9	9.7	16.6	11.5
2-Car Garage	29.2	20.2	39.2	36.5	28.8	6.7
3-Car Garage	2.7	2.4	4.8	1.9	Q	23.2
Covered Carport	6.3	1.2	2.9	12.0	7.2	17.6
No	25.2	18.0	13.0	20.1	28.5	11.2
Not Asked (Apartments)	21.1	41.3	27.6	21.2	19.8	10.4

See footnotes at end of table.

Table HC1-7b. Housing Unit Characteristics by Four Most Populated States, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.1	1.1	1.2	1.6	
Fuels Used For Any Use (more than one often used)						
Electricity	100.0	100.0	99.8	100.0	100.0	NE
Natural Gas	61.0	75.0	84.5	67.6	19.4	5.9
Wood	14.8	12.3	18.5	12.3	11.5	15.8
Fuel Oil	9.8	42.6	Q	Q	Q	17.6
LPG	8.0	8.1	3.7	4.7	6.4	21.4
Kerosene	3.4	Q	1.0	Q	Q	26.0
Solar	0.7	Q	0.7	Q	Q	46.3
Main Heating Fuel						
Natural Gas	52.7	49.8	68.2	54.1	11.0	8.6
Electricity	29.2	5.5	25.0	41.3	79.5	10.7
Fuel Oil	9.3	39.6	Q	Q	Q	16.5
LPG	4.5	Q	1.9	3.8	2.2	22.7
Wood	2.2	2.7	2.8	Q	Q	24.2
Kerosene	1.0	1.6	0.7	Q	Q	34.2
Solar	Q	Q	Q	Q	Q	NF
Other/None	1.1	0.3	Q	Q	Q	22.4

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

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

³ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

⁴ Based on the household respondent's description rather than the Federal Government definition.

-- = Data not applicable.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC1-8b. Housing Unit Characteristics by Urban/Rural Location,
Percent of U.S. Households, 1997**

Housing Unit Characteristics	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
RSE Column Factor:	0.6	0.8	1.3	1.3	1.2	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Census Region and Division						
Northeast	19.4	14.2	28.3	23.2	20.7	8.1
New England	5.2	4.1	11.4	2.4	4.9	14.0
Middle Atlantic	14.2	10.1	16.9	20.8	15.8	10.1
Midwest	23.7	23.6	24.9	24.2	22.1	7.1
East North Central	16.7	18.4	13.9	16.5	14.7	8.6
West North Central	7.0	5.2	11.0	7.7	7.4	14.2
South	35.4	34.1	29.1	37.2	43.9	5.9
South Atlantic	18.4	17.2	12.7	23.6	22.3	9.6
East South Central	6.3	4.3	6.1	4.8	13.7	14.5
West South Central	10.7	12.5	10.3	8.8	7.8	12.9
West	21.5	28.1	17.7	15.4	13.3	9.0
Mountain	6.1	8.2	5.3	3.0	4.5	13.9
Pacific	15.4	19.9	12.4	12.4	8.9	11.4
Metropolitan Statistical Area						
Urban	77.5	87.9	55.3	94.8	52.0	3.6
Central City	36.2	57.7	13.4	24.8	11.5	9.1
Suburban	41.3	30.2	41.9	70.0	40.4	5.9
Rural	22.5	12.1	44.7	5.2	48.0	7.9
Climate Zone²						
Fewer than 2,000 CDD and--						
More than 7,000 HDD	9.1	7.8	13.0	5.1	13.4	20.6
5,500 to 7,000 HDD	27.6	25.5	31.0	31.5	25.9	11.7
4,000 to 5,499 HDD	22.2	17.7	23.4	30.5	24.6	11.9
Fewer than 4,000 HDD	19.2	23.5	17.7	11.6	16.9	15.3
2,000 CDD or More and --						
Fewer than 4,000 HDD	21.9	25.5	15.0	21.3	19.3	11.1
Estimated Heated Floorspace Category (square feet)³						
Fewer than 600	7.8	10.4	7.9	3.3	5.1	11.2
600 to 999	21.2	25.7	22.8	12.9	15.6	6.7
1,000 to 1,599	29.9	30.1	28.6	30.7	29.8	4.9
1,600 to 1,999	15.1	12.5	16.1	18.2	18.0	6.7
2,000 to 2,399	7.8	6.0	6.5	12.3	9.3	9.1
2,400 to 2,999	5.3	3.2	5.2	9.4	6.8	12.7
3,000 or More	4.1	2.6	3.9	6.9	5.3	15.3
No Estimate Provided	9.0	9.6	9.0	6.4	10.1	11.8
Ownership of Unit						
Owned	67.5	56.9	68.4	78.7	84.6	2.3
Rented	32.5	43.1	31.6	21.3	15.4	6.0

See footnotes at end of table.

Table HC1-8b. Housing Unit Characteristics by Urban/Rural Location, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
RSE Column Factor:	0.6	0.8	1.3	1.3	1.2	
Type and Ownership of Housing Unit						
Single-Family Detached	62.9	53.4	66.5	71.4	76.8	2.7
Owned	54.8	44.9	57.2	65.6	69.3	3.1
Rented	8.0	8.6	9.3	5.8	7.5	9.8
Single-Family Attached	9.8	11.6	9.4	11.4	3.2	12.9
Owned	5.4	6.0	5.2	7.6	1.5	17.7
Rented	4.4	5.6	4.2	3.8	1.7	15.9
Multifamily (2 to 4 units)	5.5	8.0	6.4	2.4	0.9	16.1
Owned	0.9	1.3	1.0	0.5	Q	31.4
Rented	4.6	6.7	5.4	1.9	0.7	16.9
Multifamily (5 or more units)	15.6	23.3	12.1	10.8	2.3	12.4
Owned	1.1	1.6	Q	1.3	Q	30.5
Rented	14.4	21.6	11.6	9.5	2.1	12.9
Mobile Home	6.2	3.7	5.5	3.9	16.9	14.0
Owned	5.2	3.1	4.4	3.7	13.6	14.6
Rented	1.1	0.6	1.0	Q	3.3	26.1
Year of Construction						
1939 or Before	18.5	21.9	22.0	6.5	18.0	8.6
1940 to 1949	9.1	11.0	9.9	5.7	6.1	9.8
1950 to 1959	12.4	13.8	10.5	15.2	7.0	7.4
1960 to 1969	14.2	13.9	14.1	15.7	13.6	7.5
1970 to 1979	19.3	18.4	17.8	20.1	22.6	6.1
1980 to 1989	17.1	14.2	16.9	23.7	18.0	8.3
1990 to 1997 ⁴	9.6	6.7	8.7	13.2	14.7	11.8
Urban/Rural Location¹						
City	47.5	100.0	--	--	--	4.6
Town	17.9	--	100.0	--	--	10.9
Suburbs	18.3	--	--	100.0	--	8.9
Rural or Open Country	16.2	--	--	--	100.0	9.3
Total Number of Rooms (Excluding Bathrooms)						
1 or 2	3.0	4.7	2.3	Q	1.3	20.1
3	9.0	13.2	7.9	4.4	3.4	11.1
4	18.0	20.4	19.5	14.2	13.7	7.7
5	20.9	21.0	21.6	16.8	24.6	5.4
6	19.7	18.1	21.1	19.6	23.3	5.7
7	14.0	11.2	13.2	18.6	18.1	7.1
8	8.3	6.6	7.5	14.6	6.8	9.6
9 or More	6.9	4.8	7.0	10.8	8.7	10.3
Bedrooms						
None or 1	13.0	18.7	11.6	6.1	5.4	9.5
2	28.4	31.7	30.7	22.1	23.2	5.3
3	40.4	35.9	38.5	44.6	50.7	4.0
4 or More	18.3	13.7	19.3	27.2	20.7	6.2

See footnotes at end of table.

Table HC1-8b. Housing Unit Characteristics by Urban/Rural Location, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
RSE Column Factor:	0.6	0.8	1.3	1.3	1.2	
Other Rooms (Excluding Bathrooms)						
None or 1	5.0	6.8	3.9	2.1	4.0	14.5
2	38.1	42.8	39.2	27.8	34.4	4.3
3	30.5	29.9	31.0	30.7	31.8	4.6
4	17.3	13.5	17.3	26.2	18.5	6.4
5 or More	9.1	7.0	8.6	13.1	11.4	8.9
Full Bathrooms						
None or 1	58.5	65.4	62.8	42.2	52.1	3.0
2	35.4	30.3	32.4	45.8	42.0	4.3
3 or More	6.1	4.3	4.8	12.0	5.9	13.4
Half Bathrooms						
None	72.0	76.8	73.0	58.1	72.3	1.9
1	26.1	21.7	26.0	38.1	26.0	4.7
2 or More	Q	Q	Q	Q	Q	NF
Number of Stories						
Single-Family Homes	72.7	65.0	75.9	82.9	80.0	2.2
1 Story	40.5	38.6	40.7	39.4	47.0	4.5
2 Stories	26.5	21.9	29.6	32.7	29.8	6.0
3 Stories	3.2	3.0	3.4	5.3	1.1	15.3
Split-Level	2.4	1.4	2.2	5.3	2.1	20.2
Other	Q	Q	Q	Q	Q	NF
Mobile Homes	6.2	3.7	5.5	3.9	16.9	14.0
Number of Floors in Apartment Buildings						
1 or 2 Floors	10.7	15.6	11.1	5.8	1.7	12.7
3 or 4 Floors	5.3	8.3	3.8	3.7	Q	20.9
5 to 10 Floors	2.0	3.1	0.8	Q	Q	21.2
11 to 20 Floors	0.8	1.6	Q	Q	Q	31.5
More than 20 Floors	0.2	0.4	Q	Q	Q	40.8
Don't Know/No Answer	2.0	2.3	2.6	1.7	0.8	27.5
Foundation/Basement of Single-Family Homes (More than one may apply)						
Basement	32.7	25.4	38.1	40.3	39.8	5.8
Crawlspace	22.2	19.5	25.0	18.3	31.3	7.1
Concrete Slab	22.6	23.0	18.9	30.7	16.8	6.8
Not Asked (Mobile Homes and Multi-Family Units)	27.3	35.0	24.1	17.1	20.0	7.0
Garage/Carport						
Yes	53.7	46.6	55.0	68.6	56.1	3.4
1-Car Garage	16.0	14.9	19.8	18.1	12.7	7.7
2-Car Garage	29.2	24.7	26.7	41.7	31.3	5.4
3-Car Garage	2.7	1.9	2.6	3.1	4.9	16.5
Covered Carport	6.3	5.9	6.6	5.8	8.1	11.9
No	25.2	22.1	26.4	18.2	40.8	6.4
Not Asked (Apartments)	21.1	31.3	18.6	13.2	3.1	10.2

See footnotes at end of table.

Table HC1-8b. Housing Unit Characteristics by Urban/Rural Location, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
RSE Column Factor:	0.6	0.8	1.3	1.3	1.2	
Fuels Used For Any Use (more than one often used)						
Electricity	100.0	100.0	100.0	100.0	99.9	NE
Natural Gas	61.0	73.3	57.7	65.6	23.3	4.3
Wood	14.8	7.3	15.5	19.9	30.3	7.6
Fuel Oil	9.8	6.6	13.1	8.5	17.1	11.6
LPG	8.0	1.9	7.9	3.2	31.2	14.2
Kerosene	3.4	2.0	3.2	2.9	8.5	15.7
Solar	0.7	0.5	Q	0.7	1.7	34.3
Main Heating Fuel						
Natural Gas	52.7	61.5	52.1	59.4	20.0	4.8
Electricity	29.2	28.9	27.3	29.5	31.7	6.0
Fuel Oil	9.3	6.4	12.5	8.2	15.6	11.5
LPG	4.5	0.8	4.9	1.1	19.0	18.6
Wood	2.2	0.6	1.8	0.6	8.9	20.2
Kerosene	1.0	0.3	1.2	Q	3.4	26.0
Solar	Q	Q	Q	Q	Q	NF
Other/None	1.1	1.5	Q	1.0	1.3	23.9

¹ Based on the household respondent's description rather than the Federal Government definition.

² One of five climatically distinct areas, determined according to the 30-year average (1961-1990) of the annual heating and cooling degree-days. For this report, the heating or cooling degree-days are a measure of how cold or how hot a location is over a period of one year, relative to a base temperature of 65 degrees Fahrenheit. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station.

³ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

⁴ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

-- = Data not applicable.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC1-9b. Housing Unit Characteristics by Northeast Census Region,
Percent of U.S. Households, 1997**

Housing Unit Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.2	1.6	
Total	100.0	100.0	100.0	100.0	0.0
Census Region and Division					
Northeast	19.4	100.0	100.0	100.0	NF
New England	5.2	26.9	Q	100.0	NF
Middle Atlantic	14.2	73.1	100.0	Q	NF
Midwest	23.7	--	--	--	NF
East North Central	16.7	--	--	--	NF
West North Central	7.0	--	--	--	NF
South	35.4	--	--	--	NF
South Atlantic	18.4	--	--	--	NF
East South Central	6.3	--	--	--	NF
West South Central	10.7	--	--	--	NF
West	21.5	--	--	--	NF
Mountain	6.1	--	--	--	NF
Pacific	15.4	--	--	--	NF
Metropolitan Statistical Area					
Urban	77.5	82.5	95.2	47.9	2.9
Central City	36.2	30.2	33.2	22.1	9.4
Suburban	41.3	52.2	62.0	25.9	5.0
Rural	22.5	17.5	4.8	52.1	7.9
Climate Zone¹					
Fewer than 2,000 CDD and--					
More than 7,000 HDD	9.1	10.0	3.7	27.4	21.1
5,500 to 7,000 HDD	27.6	48.7	39.8	72.6	7.5
4,000 to 5,499 HDD	22.2	41.3	56.5	Q	4.8
Fewer than 4,000 HDD	19.2	--	--	--	17.9
2,000 CDD or More and --					
Fewer than 4,000 HDD	21.9	--	--	--	13.1
Estimated Heated Floorspace Category (square feet)²					
Fewer than 600	7.8	9.7	10.7	6.8	10.7
600 to 999	21.2	22.4	21.4	25.0	4.9
1,000 to 1,599	29.9	25.8	25.8	26.0	7.0
1,600 to 1,999	15.1	12.2	11.6	13.7	9.7
2,000 to 2,399	7.8	6.9	7.0	6.4	12.5
2,400 to 2,999	5.3	4.9	4.9	5.1	17.5
3,000 or More	4.1	3.4	3.0	4.4	19.3
No Estimate Provided	9.0	14.8	15.6	12.6	11.7

See footnotes at end of table.

Table HC1-9b. Housing Unit Characteristics by Northeast Census Region, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.2	1.6	
Ownership of Unit					
Owned	67.5	64.6	63.3	68.2	3.3
Rented	32.5	35.4	36.7	31.8	6.4
Type and Ownership of Housing Unit					
Single-Family Detached	62.9	54.1	50.8	62.9	4.0
Owned	54.8	49.9	46.8	58.4	4.8
Rented	8.0	4.1	4.0	4.5	13.6
Single-Family Attached	9.8	15.6	18.4	8.0	12.7
Owned	5.4	9.7	11.7	4.1	16.7
Rented	4.4	5.9	6.7	3.8	15.2
Multifamily (2 to 4 units)	5.5	8.6	6.9	13.3	13.4
Owned	0.9	1.7	1.4	2.4	29.5
Rented	4.6	6.9	5.4	10.9	11.8
Multifamily (5 or more units)	15.6	19.3	21.3	13.7	9.3
Owned	1.1	1.5	1.5	Q	23.3
Rented	14.4	17.8	19.8	12.1	8.8
Mobile Home	6.2	2.5	2.6	2.2	22.7
Owned	5.2	1.8	1.9	Q	23.2
Rented	1.1	Q	Q	Q	29.6
Year of Construction					
1939 or Before	18.5	32.2	32.5	31.3	9.2
1940 to 1949	9.1	9.8	9.8	9.8	13.3
1950 to 1959	12.4	13.7	13.7	13.5	10.0
1960 to 1969	14.2	13.2	11.8	16.9	10.1
1970 to 1979	19.3	13.4	13.3	13.5	6.6
1980 to 1989	17.1	11.9	12.4	10.4	13.2
1990 to 1997 ³	9.6	5.9	6.4	4.6	13.4
Urban/Rural Location⁴					
City	47.5	34.8	33.9	37.2	6.7
Town	17.9	26.1	21.3	39.2	11.9
Suburbs	18.3	21.8	26.7	8.4	11.4
Rural or Open Country	16.2	17.2	18.0	15.2	11.0
Total Number of Rooms (Excluding Bathrooms)					
1 or 2	3.0	3.2	3.0	3.8	14.9
3	9.0	11.3	12.6	7.9	9.0
4	18.0	18.1	17.9	18.8	9.3
5	20.9	17.3	16.6	19.1	6.7
6	19.7	19.8	19.8	19.7	7.0
7	14.0	14.1	14.7	12.7	8.0
8	8.3	8.7	8.7	8.6	12.7
9 or More	6.9	7.4	6.7	9.4	11.0

See footnotes at end of table.

Table HC1-9b. Housing Unit Characteristics by Northeast Census Region, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.2	1.6	
Bedrooms					
None or 1	13.0	16.6	18.0	12.8	9.4
2	28.4	28.2	26.9	31.7	5.7
3	40.4	36.2	36.2	36.0	4.4
4 or More	18.3	19.1	18.9	19.6	7.8
Other Rooms (Excluding Bathrooms)					
None or 1	5.0	5.0	4.6	6.1	15.2
2	38.1	35.4	36.1	33.7	4.6
3	30.5	31.8	31.9	31.4	6.0
4	17.3	18.5	18.5	18.4	7.1
5 or More	9.1	9.3	8.8	10.4	9.1
Full Bathrooms					
None or 1	58.5	71.9	71.5	73.1	3.3
2	35.4	25.4	25.8	24.3	7.6
3 or More	6.1	2.7	2.8	2.7	23.1
Half Bathrooms					
None	72.0	66.4	63.8	73.6	2.3
1	26.1	30.9	33.3	24.3	3.9
2 or More	Q	Q	Q	Q	NF
Number of Stories					
Single-Family Homes	72.7	69.7	69.3	70.8	3.2
1 Story	40.5	19.3	19.4	19.3	8.1
2 Stories	26.5	42.8	42.0	44.9	4.7
3 Stories	3.2	5.7	6.3	4.1	17.8
Split-Level	2.4	1.6	1.4	2.1	24.9
Other	Q	Q	Q	Q	NF
Mobile Homes	6.2	2.5	2.6	2.2	22.7
Number of Floors in Apartment Buildings					
1 or 2 Floors	10.7	7.9	6.9	10.4	16.2
3 or 4 Floors	5.3	7.6	7.0	9.4	23.5
5 to 10 Floors	2.0	6.9	8.7	Q	10.6
11 to 20 Floors	0.8	2.6	2.9	Q	24.0
More than 20 Floors	0.2	Q	Q	Q	54.9
Don't Know/No Answer	2.0	2.5	2.7	Q	20.0
Foundation/Baseament of Single-Family Homes (More than one may apply)					
Basement	32.7	57.1	55.7	61.1	5.6
Crawlspace	22.2	7.2	7.2	7.4	12.4
Concrete Slab	22.6	9.8	10.7	7.2	14.4
Not Asked (Mobile Homes and Multi-Family Units)	27.3	30.3	30.7	29.2	7.6
Garage/Carport					
Yes	53.7	47.4	49.0	43.1	4.3
1-Car Garage	16.0	22.9	23.8	20.4	8.1
2-Car Garage	29.2	21.5	21.4	21.5	6.1
3-Car Garage	2.7	1.9	2.3	Q	18.5
Covered Carport	6.3	1.4	1.6	Q	16.5
No	25.2	24.7	22.9	29.8	7.6
Not Asked (Apartments)	21.1	27.9	28.2	27.0	8.5

See footnotes at end of table.

Table HC1-9b. Housing Unit Characteristics by Northeast Census Region, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.2	1.6	
Fuels Used For Any Use (more than one often used)					
Electricity	100.0	100.0	100.0	100.0	NE
Natural Gas	61.0	59.9	68.4	36.6	7.4
Wood	14.8	12.6	11.2	16.4	11.3
Fuel Oil	9.8	37.8	32.0	53.7	10.1
LPG	8.0	7.9	6.6	11.3	18.1
Kerosene	3.4	4.9	4.1	6.8	20.4
Solar	0.7	Q	Q	Q	48.4
Main Heating Fuel					
Natural Gas	52.7	46.4	53.4	27.4	9.5
Electricity	29.2	11.9	11.7	12.2	12.3
Fuel Oil	9.3	35.9	30.2	51.3	10.1
LPG	4.5	1.1	Q	Q	29.1
Wood	2.2	1.9	1.7	2.6	22.8
Kerosene	1.0	2.1	1.5	Q	32.4
Solar	Q	Q	Q	Q	NF
Other/None	1.1	0.7	Q	Q	34.9

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

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

³ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

⁴ Based on the household respondent's description rather than the Federal Government definition.

-- = Data not applicable.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

Table HC1-10b. Housing Unit Characteristics by Midwest Census Region, Percent of U.S. Households, 1997

Housing Unit Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.1	1.8	
Total	100.0	100.0	100.0	100.0	0.0
Census Region and Division					
Northeast	19.4	--	--	--	NF
New England	5.2	--	--	--	NF
Middle Atlantic	14.2	--	--	--	NF
Midwest	23.7	100.0	100.0	100.0	NF
East North Central	16.7	70.3	100.0	Q	NF
West North Central	7.0	29.7	Q	100.0	NF
South	35.4	--	--	--	NF
South Atlantic	18.4	--	--	--	NF
East South Central	6.3	--	--	--	NF
West South Central	10.7	--	--	--	NF
West	21.5	--	--	--	NF
Mountain	6.1	--	--	--	NF
Pacific	15.4	--	--	--	NF
Metropolitan Statistical Area					
Urban	77.5	73.9	78.3	63.3	2.5
Central City	36.2	36.2	39.2	29.1	8.2
Suburban	41.3	37.7	39.1	34.1	7.8
Rural	22.5	26.1	21.7	36.7	6.5
Climate Zone¹					
Fewer than 2,000 CDD and--					
More than 7,000 HDD	9.1	22.6	16.0	38.3	28.9
5,500 to 7,000 HDD	27.6	61.0	73.2	Q	14.1
4,000 to 5,499 HDD	22.2	16.3	Q	29.3	22.1
Fewer than 4,000 HDD	19.2	--	--	--	19.3
2,000 CDD or More and --					
Fewer than 4,000 HDD	21.9	--	--	--	14.1
Estimated Heated Floorspace Category (square feet)²					
Fewer than 600	7.8	6.9	7.4	5.7	12.7
600 to 999	21.2	21.3	21.4	21.1	8.7
1,000 to 1,599	29.9	28.9	28.7	29.3	6.5
1,600 to 1,999	15.1	17.5	17.1	18.6	6.5
2,000 to 2,399	7.8	7.6	7.1	8.9	9.4
2,400 to 2,999	5.3	5.8	5.8	5.7	14.6
3,000 or More	4.1	4.0	4.2	3.6	18.3
No Estimate Provided	9.0	7.9	8.3	7.1	16.4

See footnotes at end of table.

Table HC1-10b. Housing Unit Characteristics by Midwest Census Region, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.1	1.8	
Ownership of Unit					
Owned	67.5	71.9	70.0	76.2	3.3
Rented	32.5	28.1	30.0	23.8	8.2
Type and Ownership of Housing Unit					
Single-Family Detached	62.9	69.1	66.3	75.7	3.0
Owned	54.8	61.8	59.3	67.5	3.8
Rented	8.0	7.4	7.0	8.2	10.4
Single-Family Attached	9.8	7.6	7.8	6.9	14.3
Owned	5.4	3.8	4.1	3.2	19.3
Rented	4.4	3.7	3.8	3.6	18.1
Multifamily (2 to 4 units)	5.5	7.1	8.6	3.5	12.8
Owned	0.9	1.7	2.0	Q	36.5
Rented	4.6	5.4	6.6	2.6	17.1
Multifamily (5 or more units)	15.6	11.7	12.8	9.0	15.3
Owned	1.1	Q	Q	Q	40.6
Rented	14.4	11.1	12.1	8.7	16.0
Mobile Home	6.2	4.6	4.4	4.9	23.2
Owned	5.2	4.0	3.9	4.3	23.6
Rented	1.1	0.5	Q	Q	38.9
Year of Construction					
1939 or Before	18.5	30.0	28.8	32.6	9.9
1940 to 1949	9.1	8.7	9.7	6.4	11.6
1950 to 1959	12.4	11.3	11.9	10.0	9.3
1960 to 1969	14.2	13.2	13.7	11.8	11.1
1970 to 1979	19.3	16.7	17.8	14.0	10.4
1980 to 1989	17.1	12.0	11.1	14.3	14.0
1990 to 1997 ³	9.6	8.2	7.0	11.0	12.0
Urban/Rural Location⁴					
City	47.5	47.3	52.6	34.8	5.3
Town	17.9	18.8	14.9	28.1	11.4
Suburbs	18.3	18.7	18.1	20.0	8.5
Rural or Open Country	16.2	15.1	14.3	17.1	13.5
Total Number of Rooms (Excluding Bathrooms)					
1 or 2	3.0	2.3	2.6	Q	26.6
3	9.0	6.2	7.8	2.4	15.5
4	18.0	17.8	17.2	19.4	8.9
5	20.9	20.1	19.3	22.1	4.7
6	19.7	20.1	20.0	20.2	5.8
7	14.0	15.0	14.6	16.0	7.4
8	8.3	10.7	11.0	9.9	11.6
9 or More	6.9	7.7	7.5	8.3	9.3

See footnotes at end of table.

Table HC1-10b. Housing Unit Characteristics by Midwest Census Region, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.1	1.8	
Bedrooms					
None or 1	13.0	11.4	13.0	7.6	9.7
2	28.4	27.7	27.0	29.4	5.5
3	40.4	40.6	39.7	42.6	3.7
4 or More	18.3	20.3	20.3	20.3	6.9
Other Rooms (Excluding Bathrooms)					
None or 1	5.0	3.1	3.5	Q	19.1
2	38.1	34.8	35.6	33.1	4.7
3	30.5	30.5	28.9	34.4	4.9
4	17.3	20.1	20.9	18.2	7.2
5 or More	9.1	11.5	11.1	12.3	10.1
Full Bathrooms					
None or 1	58.5	64.5	65.5	62.2	3.2
2	35.4	30.2	29.9	30.8	5.4
3 or More	6.1	5.3	4.6	7.0	18.8
Half Bathrooms					
None	72.0	68.7	68.9	68.1	1.8
1	26.1	28.9	28.9	28.9	4.9
2 or More	Q	Q	Q	Q	NF
Number of Stories					
Single-Family Homes	72.7	76.7	74.2	82.6	2.1
1 Story	40.5	33.7	32.1	37.4	5.7
2 Stories	26.5	34.6	34.6	34.4	7.3
3 Stories	3.2	3.6	4.0	2.7	12.3
Split-Level	2.4	4.7	3.3	8.0	20.0
Other	Q	Q	Q	Q	NF
Mobile Homes	6.2	4.6	4.4	4.9	23.2
Number of Floors in Apartment Buildings					
1 or 2 Floors	10.7	9.3	10.1	7.6	17.1
3 or 4 Floors	5.3	5.4	6.1	3.7	26.0
5 to 10 Floors	2.0	Q	Q	Q	24.5
11 to 20 Floors	0.8	Q	Q	Q	45.2
More than 20 Floors	0.2	Q	Q	Q	58.9
Don't Know/No Answer	2.0	2.5	Q	Q	40.9
Foundation/Baseament of Single-Family Homes (More than one may apply)					
Basement	32.7	58.6	55.6	65.6	6.1
Crawlspace	22.2	16.1	18.1	11.4	12.5
Concrete Slab	22.6	9.5	9.2	10.3	11.4
Not Asked (Mobile Homes and Multi-Family Units)	27.3	23.3	25.8	17.4	6.8
Garage/Carport					
Yes	53.7	62.1	60.0	67.1	3.3
1-Car Garage	16.0	17.3	14.2	24.7	11.2
2-Car Garage	29.2	38.0	38.6	36.7	6.7
3-Car Garage	2.7	4.7	5.1	3.7	15.7
Covered Carport	6.3	2.3	2.2	Q	16.5
No	25.2	19.1	18.6	20.4	10.0
Not Asked (Apartments)	21.1	18.7	21.4	12.5	10.0

See footnotes at end of table.

Table HC1-10b. Housing Unit Characteristics by Midwest Census Region, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.1	1.8	
Fuels Used For Any Use (more than one often used)					
Electricity	100.0	100.0	100.0	100.0	NE
Natural Gas	61.0	77.1	80.8	68.4	5.0
Wood	14.8	10.9	10.0	12.9	12.2
Fuel Oil	9.8	4.4	3.8	5.7	17.5
LPG	8.0	9.6	6.8	16.2	20.8
Kerosene	3.4	1.8	2.1	Q	17.5
Solar	0.7	Q	Q	Q	51.9
Main Heating Fuel					
Natural Gas	52.7	74.5	78.0	66.4	5.4
Electricity	29.2	11.1	11.0	11.6	15.6
Fuel Oil	9.3	4.3	3.7	5.7	17.1
LPG	4.5	7.4	5.5	11.9	21.8
Wood	2.2	1.8	Q	Q	32.2
Kerosene	1.0	Q	Q	Q	34.8
Solar	Q	Q	Q	Q	NF
Other/None	1.1	Q	Q	Q	34.0

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

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

³ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

⁴ Based on the household respondent's description rather than the Federal Government definition.

-- = Data not applicable.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC1-11b. Housing Unit Characteristics by South Census Region,
Percent of U.S. Households, 1997**

Housing Unit Characteristics	Total U.S.	South Census Region				RSE Row Factors	
		Total	Census Division				
			South Atlantic	East South Central	West south Central		
RSE Column Factor:	0.5	0.9	1.2	1.5	1.3		
Total	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Census Region and Division							
Northeast	19.4	--	--	--	--	--	NF
New England	5.2	--	--	--	--	--	NF
Middle Atlantic	14.2	--	--	--	--	--	NF
Midwest	23.7	--	--	--	--	--	NF
East North Central	16.7	--	--	--	--	--	NF
West North Central	7.0	--	--	--	--	--	NF
South	35.4	100.0	100.0	100.0	100.0	100.0	NF
South Atlantic	18.4	52.1	100.0	Q	Q	Q	NF
East South Central	6.3	17.7	Q	100.0	Q	Q	NF
West South Central	10.7	30.2	Q	Q	Q	100.0	NF
West	21.5	--	--	--	--	--	NF
Mountain	6.1	--	--	--	--	--	NF
Pacific	15.4	--	--	--	--	--	NF
Metropolitan Statistical Area							
Urban	77.5	70.6	75.5	50.1	74.1	74.1	1.6
Central City	36.2	34.0	32.4	23.9	42.6	42.6	10.2
Suburban	41.3	36.6	43.1	26.3	31.5	31.5	8.8
Rural	22.5	29.4	24.5	49.9	25.9	25.9	4.0
Climate Zone¹							
Fewer than 2,000 CDD and--							
More than 7,000 HDD	9.1	--	--	--	--	--	35.3
5,500 to 7,000 HDD	27.6	--	--	--	--	--	NC
4,000 to 5,499 HDD	22.2	22.3	30.6	36.1	Q	Q	11.5
Fewer than 4,000 HDD	19.2	25.6	27.6	Q	Q	Q	11.1
2,000 CDD or More and --							
Fewer than 4,000 HDD	21.9	52.1	41.8	Q	Q	86.8	7.2
Estimated Heated Floorspace Category (square feet)²							
Fewer than 600	7.8	5.7	5.3	7.1	5.7	5.7	13.4
600 to 999	21.2	19.0	17.5	22.4	19.8	19.8	6.6
1,000 to 1,599	29.9	32.8	34.6	30.5	31.0	31.0	6.7
1,600 to 1,999	15.1	15.8	15.7	15.4	16.3	16.3	8.8
2,000 to 2,399	7.8	8.3	7.6	7.8	9.8	9.8	10.6
2,400 to 2,999	5.3	5.0	5.1	4.8	5.1	5.1	14.5
3,000 or More	4.1	5.1	4.5	4.9	6.3	6.3	21.2
No Estimate Provided	9.0	8.2	9.7	7.2	6.0	6.0	17.0

See footnotes at end of table.

**Table HC1-11b. Housing Unit Characteristics by South Census Region,
Percent of U.S. Households, 1997 (Continued)**

Housing Unit Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West south Central	
RSE Column Factor:	0.5	0.9	1.2	1.5	1.3	
Ownership of Unit						
Owned	67.5	70.7	69.3	78.1	68.7	2.7
Rented	32.5	29.3	30.7	21.9	31.3	6.7
Type and Ownership of Housing Unit						
Single-Family Detached	62.9	66.6	62.2	69.6	72.5	2.8
Owned	54.8	57.6	54.1	62.3	61.1	3.2
Rented	8.0	9.0	8.1	7.4	11.4	11.7
Single-Family Attached	9.8	7.7	10.7	5.8	3.4	18.8
Owned	5.4	4.8	7.8	Q	Q	21.7
Rented	4.4	2.8	2.9	2.5	2.9	19.0
Multifamily (2 to 4 units)	5.5	4.0	3.6	5.4	3.7	21.3
Owned	0.9	Q	Q	Q	Q	39.4
Rented	4.6	3.6	3.2	4.9	3.6	22.4
Multifamily (5 or more units)	15.6	13.4	15.5	6.7	13.9	12.7
Owned	1.1	1.0	Q	Q	Q	41.1
Rented	14.4	12.4	14.3	5.5	13.3	12.9
Mobile Home	6.2	8.3	8.0	12.4	6.5	15.4
Owned	5.2	6.8	5.8	10.8	6.4	16.7
Rented	1.1	1.5	2.2	Q	Q	26.2
Year of Construction						
1939 or Before	18.5	8.6	8.4	10.6	7.9	12.1
1940 to 1949	9.1	7.9	7.1	7.7	9.4	9.5
1950 to 1959	12.4	11.7	11.6	12.8	11.3	8.7
1960 to 1969	14.2	14.2	11.8	13.7	18.7	8.1
1970 to 1979	19.3	21.8	21.3	23.4	21.6	8.1
1980 to 1989	17.1	22.8	27.0	17.3	18.8	11.1
1990 to 1997 ³	9.6	12.9	12.8	14.5	12.2	15.3
Urban/Rural Location⁴						
City	47.5	45.8	44.5	32.7	55.7	6.8
Town	17.9	14.8	12.4	17.5	17.3	15.5
Suburbs	18.3	19.3	23.5	14.1	15.0	12.0
Rural or Open Country	16.2	20.1	19.7	35.6	11.9	9.3
Total Number of Rooms (Excluding Bathrooms)						
1 or 2	3.0	1.7	1.4	Q	2.7	24.8
3	9.0	7.8	6.6	6.4	10.8	11.8
4	18.0	16.2	17.2	18.3	13.3	8.3
5	20.9	24.2	20.8	26.1	28.8	7.1
6	19.7	20.6	21.9	22.0	17.6	6.6
7	14.0	15.0	16.7	11.7	13.9	8.3
8	8.3	7.6	8.1	8.1	6.5	13.7
9 or More	6.9	6.8	7.2	6.4	6.4	12.8

See footnotes at end of table.

**Table HC1-11b. Housing Unit Characteristics by South Census Region,
Percent of U.S. Households, 1997 (Continued)**

Housing Unit Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West south Central	
RSE Column Factor:	0.5	0.9	1.2	1.5	1.3	
Bedrooms						
None or 1	13.0	9.7	7.9	6.9	14.2	10.8
2	28.4	27.4	28.5	32.5	22.7	5.3
3	40.4	46.1	47.6	44.0	44.6	5.2
4 or More	18.3	16.8	16.0	16.7	18.4	8.6
Other Rooms (Excluding Bathrooms)						
None or 1	5.0	3.6	3.2	2.9	4.8	18.0
2	38.1	38.1	34.1	42.4	42.6	4.0
3	30.5	31.3	32.8	28.7	30.2	5.9
4	17.3	18.2	20.5	16.1	15.4	7.3
5 or More	9.1	8.7	9.4	9.8	7.1	12.0
Full Bathrooms						
None or 1	58.5	50.6	46.6	57.9	53.2	2.8
2	35.4	42.4	45.6	37.4	39.7	4.7
3 or More	6.1	7.0	7.8	4.7	7.0	18.4
Half Bathrooms						
None	72.0	74.0	71.5	78.8	75.6	2.2
1	26.1	24.5	26.8	20.0	23.0	7.0
2 or More	Q	Q	Q	Q	Q	NF
Number of Stories						
Single-Family Homes	72.7	74.3	73.0	75.4	75.9	2.8
1 Story	40.5	53.0	47.2	55.3	61.7	5.2
2 Stories	26.5	17.4	19.4	18.0	13.5	10.3
3 Stories	3.2	2.3	4.0	Q	Q	14.3
Split-Level	2.4	1.6	2.3	Q	Q	20.9
Other	Q	Q	Q	Q	Q	NF
Mobile Homes	6.2	8.3	8.0	12.4	6.5	15.4
Number of Floors in Apartment Buildings						
1 or 2 Floors	10.7	11.5	10.6	9.4	14.2	13.8
3 or 4 Floors	5.3	3.6	5.7	Q	Q	35.6
5 to 10 Floors	2.0	0.5	Q	Q	Q	31.2
11 to 20 Floors	0.8	Q	Q	Q	Q	44.6
More than 20 Floors	0.2	Q	Q	Q	Q	58.1
Don't Know/No Answer	2.0	1.1	Q	Q	Q	30.2
Foundation/Basement of Single-Family Homes (More than one may apply)						
Basement	32.7	13.7	17.3	20.1	3.9	13.5
Crawlspace	22.2	30.1	27.2	37.7	30.6	6.3
Concrete Slab	22.6	34.2	32.2	20.7	45.6	6.7
Not Asked (Mobile Homes and Multi-Family Units)	27.3	25.7	27.0	24.6	24.1	8.1
Garage/Carport						
Yes	53.7	48.3	43.6	44.0	58.9	3.8
1-Car Garage	16.0	13.0	13.8	10.7	13.0	8.5
2-Car Garage	29.2	24.2	20.4	20.8	32.8	7.6
3-Car Garage	2.7	1.2	Q	Q	Q	21.6
Covered Carport	6.3	10.9	9.4	12.2	12.7	11.4
No	25.2	34.3	37.4	43.9	23.5	7.5
Not Asked (Apartments)	21.1	17.4	19.1	12.1	17.5	10.9

See footnotes at end of table.

Table HC1-11b. Housing Unit Characteristics by South Census Region, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West south Central	
RSE Column Factor:	0.5	0.9	1.2	1.5	1.3	
Fuels Used For Any Use (more than one often used)						
Electricity	100.0	100.0	100.0	100.0	100.0	NE
Natural Gas	61.0	45.8	34.4	42.2	67.6	7.1
Wood	14.8	15.9	17.6	17.1	12.3	9.1
Fuel Oil	9.8	3.2	6.1	Q	Q	27.7
LPG	8.0	9.0	8.7	17.0	4.8	18.3
Kerosene	3.4	5.2	7.0	7.0	Q	15.3
Solar	0.7	1.0	1.8	Q	Q	47.5
Main Heating Fuel						
Natural Gas	52.7	38.3	28.6	36.2	56.1	7.5
Electricity	29.2	48.7	55.4	45.7	38.7	7.2
Fuel Oil	9.3	3.1	5.9	Q	Q	27.1
LPG	4.5	5.7	4.4	13.3	3.6	18.1
Wood	2.2	1.9	2.2	2.6	Q	20.6
Kerosene	1.0	1.2	2.0	Q	Q	20.5
Solar	Q	Q	Q	Q	Q	NF
Other/None	1.1	1.0	1.4	Q	Q	39.2

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

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

³ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

⁴ Based on the household respondent's description rather than the Federal Government definition.

-- = Data not applicable.

NC = No cases in sample.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

Table HC1-12b. Housing Unit Characteristics by West Census Region, Percent of U.S. Households, 1997

Housing Unit Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
Total	100.0	100.0	100.0	100.0	0.0
Census Region and Division					
Northeast	19.4	--	--	--	NF
New England	5.2	--	--	--	NF
Middle Atlantic	14.2	--	--	--	NF
Midwest	23.7	--	--	--	NF
East North Central	16.7	--	--	--	NF
West North Central	7.0	--	--	--	NF
South	35.4	--	--	--	NF
South Atlantic	18.4	--	--	--	NF
East South Central	6.3	--	--	--	NF
West South Central	10.7	--	--	--	NF
West	21.5	100.0	100.0	100.0	NF
Mountain	6.1	28.3	100.0	Q	NF
Pacific	15.4	71.7	Q	100.0	NF
Metropolitan Statistical Area					
Urban	77.5	88.3	78.4	92.3	3.9
Central City	36.2	45.4	53.9	42.1	9.1
Suburban	41.3	42.9	24.5	50.2	9.4
Rural	22.5	11.7	21.6	7.7	12.4
Climate Zone¹					
Fewer than 2,000 CDD and--					
More than 7,000 HDD	9.1	8.4	14.8	5.9	9.1
5,500 to 7,000 HDD	27.6	17.2	44.4	Q	18.3
4,000 to 5,499 HDD	22.2	11.1	Q	15.5	27.5
Fewer than 4,000 HDD	19.2	47.3	Q	63.4	4.3
2,000 CDD or More and --					
Fewer than 4,000 HDD	21.9	16.0	34.0	8.8	7.2
Estimated Heated Floorspace Category (square feet)²					
Fewer than 600	7.8	10.3	8.2	11.1	11.2
600 to 999	21.2	23.4	22.8	23.7	8.2
1,000 to 1,599	29.9	30.0	33.9	28.5	5.3
1,600 to 1,999	15.1	13.7	12.7	14.1	7.2
2,000 to 2,399	7.8	7.9	7.7	8.0	11.9
2,400 to 2,999	5.3	5.3	5.6	5.2	10.6
3,000 or More	4.1	3.0	4.4	2.4	20.2
No Estimate Provided	9.0	6.3	4.6	7.0	14.3
Ownership of Unit					
Owned	67.5	59.8	67.8	56.7	3.6
Rented	32.5	40.2	32.2	43.3	6.1

See footnotes at end of table.

Table HC1-12b. Housing Unit Characteristics by West Census Region, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
Type and Ownership of Housing Unit					
Single-Family Detached	62.9	57.7	60.7	56.5	4.7
Owned	54.8	47.0	52.4	44.8	5.4
Rented	8.0	10.7	8.3	11.7	9.0
Single-Family Attached	9.8	10.6	11.8	10.1	14.8
Owned	5.4	4.2	4.7	4.0	22.6
Rented	4.4	6.4	7.1	6.1	15.1
Multifamily (2 to 4 units)	5.5	3.7	3.2	3.9	21.1
Owned	0.9	Q	Q	Q	37.9
Rented	4.6	3.4	2.6	3.8	23.2
Multifamily (5 or more units)	15.6	20.1	13.6	22.6	11.3
Owned	1.1	1.7	Q	1.9	36.4
Rented	14.4	18.4	12.4	20.7	10.5
Mobile Home	6.2	8.0	10.7	6.9	16.1
Owned	5.2	6.7	8.8	5.9	18.6
Rented	1.1	1.3	Q	1.0	29.3
Year of Construction					
1939 or Before	18.5	9.4	10.5	9.0	10.5
1940 to 1949	9.1	10.7	6.8	12.2	10.3
1950 to 1959	12.4	13.4	13.0	13.6	8.1
1960 to 1969	14.2	16.4	18.2	15.7	8.3
1970 to 1979	19.3	23.4	25.6	22.5	6.8
1980 to 1989	17.1	17.8	16.9	18.1	11.1
1990 to 1997 ³	9.6	8.9	9.0	8.8	18.4
Urban/Rural Location⁴					
City	47.5	62.1	63.6	61.5	5.4
Town	17.9	14.8	15.6	14.4	12.7
Suburbs	18.3	13.1	8.9	14.7	13.0
Rural or Open Country	16.2	10.1	11.9	9.3	12.9
Total Number of Rooms (Excluding Bathrooms)					
1 or 2	3.0	5.8	3.1	6.9	15.3
3	9.0	12.1	9.1	13.2	10.6
4	18.0	21.2	21.8	20.9	9.3
5	20.9	19.9	21.2	19.4	7.4
6	19.7	17.8	17.0	18.0	5.9
7	14.0	11.3	12.8	10.7	11.3
8	8.3	6.2	8.5	5.3	10.4
9 or More	6.9	5.8	6.5	5.5	13.0
Bedrooms					
None or 1	13.0	16.9	11.6	19.0	8.3
2	28.4	30.9	31.9	30.5	7.1
3	40.4	34.6	37.7	33.3	5.8
4 or More	18.3	17.7	18.9	17.2	8.7

See footnotes at end of table.

Table HC1-12b. Housing Unit Characteristics by West Census Region, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
Other Rooms (Excluding Bathrooms)					
None or 1	5.0	9.3	6.2	10.5	12.3
2	38.1	43.9	43.6	44.0	4.1
3	30.5	28.2	27.1	28.6	5.5
4	17.3	11.7	13.1	11.1	10.2
5 or More	9.1	6.9	10.0	5.7	10.4
Full Bathrooms					
None or 1	58.5	52.8	52.8	52.8	3.8
2	35.4	38.9	39.5	38.7	4.0
3 or More	6.1	8.3	7.8	8.5	15.9
Half Bathrooms					
None	72.0	77.2	77.8	77.0	2.1
1	26.1	21.6	21.2	21.7	6.3
2 or More	Q	Q	Q	Q	NF
Number of Stories					
Single-Family Homes	72.7	68.2	72.4	66.6	3.6
1 Story	40.5	46.5	54.1	43.5	5.5
2 Stories	26.5	18.1	13.9	19.8	9.8
3 Stories	3.2	1.9	2.5	1.6	18.2
Split-Level	2.4	1.7	Q	1.7	30.2
Other	Q	Q	Q	Q	NF
Mobile Homes	6.2	8.0	10.7	6.9	16.1
Number of Floors in Apartment Buildings					
1 or 2 Floors	10.7	13.7	9.6	15.3	11.4
3 or 4 Floors	5.3	6.1	5.7	6.2	21.7
5 to 10 Floors	2.0	Q	Q	Q	23.2
11 to 20 Floors	0.8	Q	Q	Q	42.9
More than 20 Floors	0.2	Q	Q	Q	55.8
Don't Know/No Answer	2.0	2.4	Q	2.8	21.0
Foundation/Baseament of Single-Family Homes (More than one may apply)					
Basement	32.7	13.3	25.3	8.5	9.8
Crawlspace	22.2	29.3	23.1	31.7	9.9
Concrete Slab	22.6	29.7	29.8	29.7	9.5
Not Asked (Mobile Homes and Multi-Family Units)	27.3	31.8	27.6	33.4	8.3
Garage/Carport					
Yes	53.7	58.9	56.3	60.0	4.0
1-Car Garage	16.0	13.3	14.0	13.0	7.8
2-Car Garage	29.2	34.8	30.5	36.4	7.6
3-Car Garage	2.7	3.8	2.9	4.2	15.5
Covered Carport	6.3	7.8	9.6	7.0	14.3
No	25.2	17.3	26.9	13.5	7.5
Not Asked (Apartments)	21.1	23.8	16.8	26.5	10.5

See footnotes at end of table.

Table HC1-12b. Housing Unit Characteristics by West Census Region, Percent of U.S. Households, 1997 (Continued)

Housing Unit Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
Fuels Used For Any Use (more than one often used)					
Electricity	100.0	99.8	100.0	99.8	NE
Natural Gas	61.0	69.2	71.8	68.2	2.5
Wood	14.8	19.4	18.3	19.8	9.2
Fuel Oil	9.8	1.3	Q	1.2	25.2
LPG	8.0	4.4	6.0	3.8	18.2
Kerosene	3.4	1.0	Q	Q	20.8
Solar	0.7	0.9	Q	Q	31.3
Main Heating Fuel					
Natural Gas	52.7	58.1	64.6	55.5	3.6
Electricity	29.2	32.6	26.8	34.9	7.0
Fuel Oil	9.3	1.1	Q	Q	23.8
LPG	4.5	2.5	4.4	1.7	24.9
Wood	2.2	3.1	2.8	3.3	18.4
Kerosene	1.0	Q	Q	Q	33.0
Solar	Q	Q	Q	Q	NF
Other/None	1.1	2.3	Q	3.1	18.0

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

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

³ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

⁴ Based on the household respondent's description rather than the Federal Government definition.

-- = Data not applicable.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

1997 Housing Characteristics Tables

Space Heating Tables

(Million U.S. Households; 24 pages, 83 kb)

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These data are from the 1997 Residential Energy Consumption Survey (RECS) which provides information on the use of energy in residential housing units in the United States. The RECS is a national statistical survey that collects data for occupied primary housing units. RECS was first conducted in 1978; the sixth and most recent survey was conducted in 1997 RECS. The data were collected from a sample of 5,900 housing units statistically selected to represent the 101.5 million units in the United States. The 1997 data are available for the four Census regions, the nine Census divisions, and for the four most populous States--California, Florida, New York, and Texas.

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Contact: Robert Latta, Survey Manager (rlatta@eia.doe.gov)

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

**Table HC3-1a. Space Heating by Climate Zone,
Million U.S. Households, 1997**

Space Heating Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.6	1.1	1.1	1.1	1.0	
Total	101.5	9.3	28.0	22.5	19.5	22.2	8.2
Main Heating Fuel and Equipment							
Natural Gas	53.5	4.9	18.7	9.9	10.6	9.3	9.6
Central Warm-Air Furnace	38.4	3.8	14.5	6.8	6.8	6.4	10.8
For One Housing Unit	37.0	3.6	13.8	6.6	6.7	6.3	11.0
For Two or More Units	1.3	Q	0.7	Q	Q	Q	15.4
Steam or Hot-Water System	7.3	0.8	3.6	2.5	Q	0.2	15.5
For One Housing Unit	5.0	0.6	2.5	1.6	Q	Q	15.7
For Two or More Units	2.3	0.2	1.1	0.9	Q	Q	19.4
Floor, Wall, or							
Pipeless Furnace	4.1	Q	Q	0.4	2.4	0.9	19.5
Room Heater/Other	3.8	Q	0.4	0.2	1.3	1.7	25.7
Electricity	29.6	1.1	4.3	6.8	6.5	10.9	10.5
Built-In Electric Units	7.5	0.7	2.4	2.1	1.4	0.9	19.1
Central Warm-Air Furnace	10.7	0.2	1.1	1.7	2.2	5.4	20.9
For One Housing Unit	10.2	0.2	1.0	1.7	2.1	5.2	21.5
For Two or More Units	0.5	Q	Q	Q	Q	0.3	48.4
Heat Pump	9.7	Q	0.5	2.7	2.5	3.9	19.1
Other	1.8	Q	0.3	0.3	0.5	0.6	23.4
Fuel Oil	9.5	1.9	3.0	4.2	0.2	Q	16.9
Steam or Hot-Water System	5.2	0.6	1.6	3.0	Q	Q	17.8
For One Housing Unit	3.4	0.5	1.3	1.5	Q	Q	20.1
For Two or More Units	1.8	Q	0.3	1.5	Q	Q	17.1
Central Warm-Air Furnace	3.8	1.2	1.2	1.2	Q	Q	20.7
Other	0.4	Q	0.2	Q	Q	Q	34.0
Wood	2.2	0.6	0.4	0.5	0.5	0.3	24.3
Heating Stove	1.5	0.4	0.3	0.3	0.4	Q	23.0
Other	0.7	0.2	Q	Q	Q	Q	30.3
LPG	4.6	0.5	1.3	0.8	1.2	0.8	29.3
Central Warm-Air Furnace	3.2	0.4	1.2	0.6	0.6	0.4	30.8
Room Heater	0.9	Q	Q	Q	0.4	0.4	41.7
Other	0.5	0.1	Q	Q	0.2	Q	31.0
Kerosene	1.0	0.2	0.2	0.1	0.3	Q	28.6
Other	0.4	Q	0.2	0.2	Q	Q	50.6
None	0.8	Q	Q	Q	Q	0.6	29.0
Amount of Heat Provided by Main Heating Equipment							
All or Almost All	93.3	8.3	26.5	20.7	17.7	20.0	8.4
About Three-Fourths	4.2	0.5	1.1	1.0	0.9	0.8	17.7
Closer to One-Half	3.2	0.4	0.5	0.7	0.8	0.8	17.5
No Main Equipment	0.8	Q	Q	Q	Q	0.6	29.0

See footnotes at end of table.

**Table HC3-1a. Space Heating by Climate Zone,
Million U.S. Households, 1997 (Continued)**

Space Heating Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.6	1.1	1.1	1.1	1.0	
Age of Main Heating Equipment							
Less than 2 Years	8.7	0.9	2.1	1.6	1.7	2.3	13.4
2 to 4 Years	12.1	1.2	3.1	2.5	2.5	2.8	12.5
5 to 9 Years	19.9	2.0	5.1	3.9	3.7	5.2	10.5
10 to 19 Years	25.0	2.1	6.2	5.7	5.0	6.1	9.5
20 Years or More	26.0	2.4	8.6	6.1	5.7	3.2	8.6
Don't Know	9.0	0.7	2.9	2.6	0.8	1.9	15.4
No Main Equipment	0.8	Q	Q	Q	Q	0.6	29.0
Secondary Heating Fuel and Equipment (more than one may apply)							
No	67.2	5.3	19.4	14.5	12.6	15.4	7.1
Yes	34.3	3.9	8.7	8.0	6.9	6.7	9.6
Natural Gas	4.9	0.5	1.5	0.7	0.9	1.4	20.4
Fireplace	2.5	0.3	0.9	0.3	0.4	0.7	27.4
Room Heater	1.4	Q	0.3	Q	0.3	0.4	27.0
Central Warm-Air Furnace	0.4	Q	Q	Q	Q	Q	46.8
Other Equipment	0.8	Q	0.2	Q	0.2	0.2	31.5
Electricity	15.7	1.8	4.1	3.9	2.7	3.3	11.8
Portable Heater	12.3	1.4	3.2	3.1	2.2	2.5	12.0
Built-in Electric Units	2.7	0.4	0.8	0.6	0.3	0.5	23.5
Other Equipment	0.8	Q	Q	0.2	0.2	0.2	35.9
Fuel Oil	0.5	0.1	0.1	0.2	Q	Q	26.3
Wood	12.9	1.5	2.9	3.1	2.9	2.6	11.4
Fireplace	9.7	0.6	2.0	2.2	2.5	2.4	12.4
Heating Stove	3.4	0.9	1.0	0.9	0.4	0.2	21.6
Other Equipment	0.3	Q	Q	Q	Q	Q	52.3
LPG	1.3	0.2	0.2	0.3	0.3	0.2	31.1
Kerosene	2.6	0.2	0.7	0.8	0.7	0.3	20.4
Other	0.3	Q	Q	Q	Q	Q	51.4
Estimated Heated Floorspace Category (square feet)²							
Fewer than 600	7.9	0.5	2.0	2.0	2.0	1.4	12.3
600 to 999	21.5	2.1	6.2	4.6	4.4	4.2	9.8
1,000 to 1,599	30.4	3.1	7.7	6.0	6.5	7.1	9.5
1,600 to 1,999	15.3	1.4	4.7	3.3	2.6	3.3	12.2
2,000 to 2,399	7.9	0.6	2.2	1.7	1.5	1.9	12.8
2,400 to 2,999	5.3	0.5	1.7	1.1	0.9	1.1	16.2
3,000 or More	4.1	0.4	1.2	0.7	0.6	1.3	20.6
No Estimate Provided	9.1	0.7	2.4	3.2	1.0	1.9	14.9

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

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.
Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.
Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.
• See "Glossary" for definition of terms used in this report.

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

**Table HC3-2a. Space Heating by Year of Construction,
Million U.S. Households, 1997**

Space Heating Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.5	1.2	1.0	1.1	1.1	0.9	
Total	101.5	9.7	17.3	19.6	14.4	12.5	27.9	4.2
Main Heating Fuel and Equipment								
Natural Gas	53.5	4.7	6.2	8.1	8.3	8.1	18.1	6.5
Central Warm-Air Furnace	38.4	4.6	5.8	6.5	6.1	5.3	10.1	7.7
For One Housing Unit	37.0	4.5	5.7	6.4	5.9	5.2	9.4	7.8
For Two or More Units	1.3	Q	Q	Q	0.2	Q	0.7	24.7
Steam or Hot-Water System	7.3	Q	0.2	0.9	0.9	0.8	4.4	17.1
For One Housing Unit	5.0	Q	0.2	0.5	0.6	0.7	3.0	20.2
For Two or More Units	2.3	Q	Q	0.3	0.3	Q	1.4	23.7
Floor, Wall, or Pipeless Furnace	4.1	Q	Q	0.4	0.7	1.1	1.7	18.5
Room Heater/Other	3.8	Q	0.1	0.3	0.6	0.8	1.9	21.3
Electricity	29.6	3.9	9.3	8.5	3.4	2.2	2.3	8.4
Built-In Electric Units	7.5	0.4	1.6	2.6	1.1	0.7	1.0	16.4
Central Warm-Air Furnace	10.7	1.5	3.8	3.2	1.1	0.6	0.5	14.7
For One Housing Unit	10.2	1.5	3.6	3.0	1.1	0.5	0.5	15.1
For Two or More Units	0.5	Q	0.2	0.2	Q	Q	Q	41.3
Heat Pump	9.7	1.9	3.7	2.4	0.9	0.6	0.3	17.1
Other	1.8	Q	0.2	0.3	0.3	0.4	0.5	22.0
Fuel Oil	9.5	0.3	0.5	1.0	1.5	1.4	4.7	14.6
Steam or Hot-Water System	5.2	0.1	0.2	0.5	0.8	0.8	2.8	20.0
For One Housing Unit	3.4	0.1	0.2	0.3	0.6	0.5	1.6	20.2
For Two or More Units	1.8	Q	Q	Q	0.2	0.3	1.2	26.9
Central Warm-Air Furnace	3.8	Q	0.3	0.4	0.6	0.6	1.8	20.0
Other	0.4	Q	Q	Q	Q	Q	0.2	34.6
Wood	2.2	Q	0.4	0.5	0.4	0.2	0.7	22.0
Heating Stove	1.5	Q	0.3	0.3	0.3	0.1	0.4	23.5
Other	0.7	Q	Q	Q	Q	Q	0.3	38.9
LPG	4.6	0.6	0.7	1.0	0.6	0.5	1.4	17.1
Central Warm-Air Furnace	3.2	0.5	0.6	0.7	0.3	0.2	0.8	22.0
Room Heater	0.9	Q	Q	0.2	0.2	0.2	0.3	29.1
Other	0.5	Q	Q	Q	Q	Q	0.2	34.6
Kerosene	1.0	Q	0.1	0.3	Q	Q	0.3	30.1
Other	0.4	Q	Q	Q	Q	Q	Q	60.5
None	0.8	Q	Q	0.2	Q	Q	0.2	36.4
Amount of Heat Provided by Main Heating Equipment								
All or Almost All	93.3	8.9	16.2	18.0	13.3	11.5	25.4	4.4
About Three-Fourths	4.2	0.4	0.5	0.9	0.6	0.5	1.4	19.0
Closer to One-Half	3.2	0.3	0.5	0.6	0.4	0.4	0.9	17.2
No Main Equipment	0.8	Q	Q	0.2	Q	Q	0.2	36.4

See footnotes at end of table.

**Table HC3-2a. Space Heating by Year of Construction,
Million U.S. Households, 1997 (Continued)**

Space Heating Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.5	1.2	1.0	1.1	1.1	0.9	
Age of Main Heating Equipment								
Less than 2 Years	8.7	2.6	0.8	1.4	1.3	0.9	1.7	11.0
2 to 4 Years	12.1	3.4	0.8	1.9	1.5	1.5	2.9	9.4
5 to 9 Years	19.9	3.4	6.0	2.4	2.1	2.1	3.8	8.6
10 to 19 Years	25.0	Q	8.5	5.8	2.4	2.5	5.7	7.1
20 Years or More	26.0	Q	Q	5.7	5.7	4.4	10.0	6.2
Don't Know	9.0	0.2	1.1	2.0	1.2	1.1	3.5	13.8
No Main Equipment	0.8	Q	Q	0.2	Q	Q	0.2	36.4
Secondary Heating Fuel and Equipment (more than one may apply)								
No	67.2	6.4	11.1	13.3	9.4	8.4	18.6	4.8
Yes	34.3	3.3	6.2	6.3	5.0	4.2	9.3	6.3
Natural Gas	4.9	0.8	0.8	0.6	0.6	1.0	1.2	16.3
Fireplace	2.5	0.8	0.6	0.4	0.2	0.3	0.3	24.8
Room Heater	1.4	Q	Q	Q	0.2	0.5	0.5	24.2
Central Warm-Air Furnace	0.4	Q	Q	Q	Q	Q	Q	42.7
Other Equipment	0.8	Q	Q	Q	Q	0.2	0.4	29.2
Electricity	15.7	0.9	2.5	2.6	2.5	2.1	5.2	9.1
Portable Heater	12.3	0.6	1.9	1.8	2.0	1.7	4.2	10.2
Built-in Electric Units	2.7	0.2	0.5	0.4	0.3	0.3	0.9	21.3
Other Equipment	0.8	Q	Q	0.4	Q	Q	0.1	36.1
Fuel Oil	0.5	Q	Q	Q	Q	Q	0.3	28.1
Wood	12.9	1.5	3.3	2.9	1.8	1.2	2.2	10.0
Fireplace	9.7	1.2	2.8	2.2	1.4	0.9	1.2	11.9
Heating Stove	3.4	0.3	0.5	0.9	0.5	0.3	1.0	18.2
Other Equipment	0.3	Q	Q	Q	Q	Q	Q	47.8
LPG	1.3	Q	0.3	0.3	0.2	Q	0.3	25.4
Kerosene	2.6	Q	0.4	0.5	0.3	0.3	1.1	20.8
Other	0.3	Q	Q	Q	Q	Q	Q	47.0
Estimated Heated Floorspace Category (square feet)²								
Fewer than 600	7.9	0.5	1.1	1.5	1.3	0.8	2.7	12.9
600 to 999	21.5	1.1	2.9	5.2	3.2	2.6	6.4	8.4
1,000 to 1,599	30.4	3.0	5.2	4.9	4.6	4.7	7.9	7.3
1,600 to 1,999	15.3	1.5	3.0	2.9	2.2	2.0	3.8	8.8
2,000 to 2,399	7.9	0.9	1.4	1.9	1.0	0.8	1.8	11.5
2,400 to 2,999	5.3	0.9	1.7	1.1	0.5	0.3	0.8	16.2
3,000 or More	4.1	1.3	0.8	0.7	0.3	0.2	0.8	20.1
No Estimate Provided	9.1	0.5	1.3	1.3	1.4	1.1	3.5	13.3

¹ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC3-3a. Space Heating by Household Income,
Million U.S. Households, 1997**

Space Heating Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.4	1.0	0.9	1.0	1.3	1.0	
Total	101.5	13.3	29.1	31.1	27.9	14.6	34.1	2.8
Main Heating Fuel and Equipment								
Natural Gas	53.5	6.2	14.7	16.6	15.9	7.2	16.8	4.8
Central Warm-Air Furnace	38.4	2.9	9.5	12.9	13.1	3.5	9.3	6.3
For One Housing Unit	37.0	2.6	8.9	12.6	12.9	3.3	8.7	6.5
For Two or More Units	1.3	0.2	0.5	0.4	0.2	Q	0.6	21.6
Steam or Hot-Water System	7.3	1.2	1.9	2.0	2.1	1.3	2.8	11.9
For One Housing Unit	5.0	0.6	1.2	1.3	1.9	0.7	1.7	14.9
For Two or More Units	2.3	0.6	0.7	0.7	0.3	0.6	1.1	20.0
Floor, Wall, or Pipeless Furnace	4.1	0.9	1.6	1.2	0.4	1.1	2.3	15.1
Room Heater/Other	3.8	1.2	1.7	0.5	0.3	1.3	2.4	16.3
Electricity	29.6	4.4	9.1	8.5	7.6	4.4	10.4	6.6
Built-In Electric Units	7.5	1.6	2.6	2.0	1.2	1.4	3.2	12.2
Central Warm-Air Furnace	10.7	1.5	3.5	3.2	2.6	1.7	3.8	11.8
For One Housing Unit	10.2	1.4	3.3	3.0	2.5	1.7	3.5	12.0
For Two or More Units	0.5	Q	0.2	Q	Q	Q	0.2	37.7
Heat Pump	9.7	0.9	2.3	2.9	3.7	0.8	2.4	14.5
Other	1.8	0.4	0.7	0.4	0.2	0.5	1.0	17.8
Fuel Oil	9.5	1.3	2.4	3.0	2.8	1.3	3.3	10.4
Steam or Hot-Water System	5.2	0.9	1.3	1.5	1.6	0.9	1.9	12.2
For One Housing Unit	3.4	0.2	0.7	1.0	1.4	0.2	0.7	18.2
For Two or More Units	1.8	0.7	0.6	0.5	Q	0.7	1.2	12.8
Central Warm-Air Furnace	3.8	0.3	0.9	1.4	1.1	0.3	1.1	17.3
Other	0.4	Q	0.2	Q	Q	Q	0.3	26.3
Wood	2.2	0.3	0.8	0.6	0.5	0.3	0.8	18.3
Heating Stove	1.5	0.3	0.5	0.4	0.3	0.3	0.6	20.3
Other	0.7	Q	0.2	0.2	0.2	Q	0.2	33.6
LPG	4.6	0.6	1.5	1.8	0.8	0.7	1.6	14.9
Central Warm-Air Furnace	3.2	0.3	1.0	1.2	0.6	0.3	0.9	19.9
Room Heater	0.9	0.2	0.3	0.3	Q	0.2	0.4	24.7
Other	0.5	0.1	0.2	0.2	Q	0.1	0.3	25.8
Kerosene	1.0	0.2	0.3	0.4	Q	0.3	0.5	23.7
Other	0.4	Q	Q	0.1	Q	Q	0.2	48.7
None	0.8	0.2	0.4	0.1	Q	0.3	0.5	25.9
Amount of Heat Provided by Main Heating Equipment								
All or Almost All	93.3	12.5	26.8	28.8	25.2	13.4	31.3	2.9
About Three-Fourths	4.2	0.2	1.0	1.3	1.8	0.3	1.0	14.5
Closer to One-Half	3.2	0.4	1.0	0.9	0.8	0.6	1.2	14.2
No Main Equipment	0.8	0.2	0.4	0.1	Q	0.3	0.5	25.9

See footnotes at end of table.

**Table HC3-3a. Space Heating by Household Income,
Million U.S. Households, 1997 (Continued)**

Space Heating Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.4	1.0	0.9	1.0	1.3	1.0	
Age of Main Heating Equipment								
Less than 2 Years	8.7	0.9	2.2	3.0	2.5	1.1	2.5	9.2
2 to 4 Years	12.1	1.5	3.0	3.7	4.0	1.6	3.7	8.4
5 to 9 Years	19.9	1.9	4.7	6.2	7.1	2.3	5.4	7.0
10 to 19 Years	25.0	3.0	6.8	7.7	7.5	2.9	7.6	6.1
20 Years or More	26.0	3.6	8.8	8.0	5.6	3.8	9.8	5.2
Don't Know	9.0	2.3	3.1	2.4	1.2	2.6	4.6	9.4
No Main Equipment	0.8	0.2	0.4	0.1	Q	0.3	0.5	25.9
Secondary Heating Fuel and Equipment (more than one may apply)								
No	67.2	10.7	21.4	20.3	14.8	11.4	25.7	3.2
Yes	34.3	2.6	7.7	10.8	13.1	3.3	8.3	5.1
Natural Gas	4.9	0.6	0.9	1.4	2.0	0.5	1.3	15.1
Fireplace	2.5	Q	0.3	0.7	1.3	Q	0.4	23.6
Room Heater	1.4	0.2	0.4	0.4	0.4	0.2	0.5	25.1
Central Warm-Air Furnace	0.4	Q	Q	Q	0.2	Q	Q	31.5
Other Equipment	0.8	0.1	0.2	0.2	Q	0.2	0.4	25.9
Electricity	15.7	1.4	3.8	4.9	5.5	1.8	4.0	7.1
Portable Heater	12.3	1.3	3.2	3.8	4.1	1.6	3.4	7.4
Built-in Electric Units	2.7	Q	0.5	0.8	1.3	Q	0.5	18.1
Other Equipment	0.8	Q	0.2	0.3	Q	Q	0.2	30.3
Fuel Oil	0.5	Q	0.1	Q	0.2	Q	0.1	29.6
Wood	12.9	0.4	2.2	4.1	6.2	0.8	2.2	10.4
Fireplace	9.7	0.3	1.6	2.9	4.8	0.5	1.6	12.5
Heating Stove	3.4	Q	0.6	1.2	1.5	0.2	0.7	16.7
Other Equipment	0.3	Q	Q	Q	Q	Q	Q	39.2
LPG	1.3	Q	0.3	0.4	0.5	Q	0.3	25.5
Kerosene	2.6	0.2	0.9	0.8	0.6	0.4	1.0	15.7
Other	0.3	Q	Q	Q	0.2	Q	Q	32.6
Estimated Heated Floorspace Category (square feet)²								
Fewer than 600	7.9	2.9	3.1	1.6	0.3	2.7	4.9	10.8
600 to 999	21.5	4.3	8.6	6.0	2.6	4.6	10.2	6.4
1,000 to 1,599	30.4	2.8	9.7	10.8	7.0	3.7	9.9	5.7
1,600 to 1,999	15.3	0.6	3.2	5.4	6.1	0.9	2.8	7.8
2,000 to 2,399	7.9	0.2	1.2	2.5	4.0	0.3	1.1	12.9
2,400 to 2,999	5.3	Q	0.3	1.4	3.4	0.2	0.5	17.6
3,000 or More	4.1	Q	0.3	0.9	2.8	Q	0.4	19.6
No Estimate Provided	9.1	2.2	2.7	2.5	1.7	2.2	4.4	10.7

¹ Below 150 percent of poverty line or 60 percent of median State income.

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC3-4a. Space Heating by Type of Housing Unit,
Million U.S. Households, 1997**

Space Heating Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.6	1.7	1.3	1.6	
Total	101.5	73.7	5.6	15.8	6.3	4.0
Main Heating Fuel and Equipment						
Natural Gas	53.5	42.5	3.4	5.5	2.1	7.2
Central Warm-Air Furnace	38.4	32.4	1.6	2.5	2.0	9.0
For One Housing Unit	37.0	31.8	1.3	2.0	2.0	9.7
For Two or More Units	1.3	0.6	0.2	0.5	Q	21.8
Steam or Hot-Water System	7.3	4.3	1.1	1.9	Q	13.2
For One Housing Unit	5.0	3.9	0.6	0.5	Q	17.9
For Two or More Units	2.3	0.4	0.5	1.4	Q	19.4
Floor, Wall, or Pipeless Furnace	4.1	2.9	0.4	0.7	Q	17.1
Room Heater/Other	3.8	2.9	0.4	0.4	Q	19.2
Electricity	29.6	17.7	1.6	7.9	2.4	8.6
Built-In Electric Units	7.5	3.9	0.7	2.8	Q	14.1
Central Warm-Air Furnace	10.7	5.3	0.6	3.2	1.6	14.2
For One Housing Unit	10.2	5.3	0.6	2.8	1.6	14.5
For Two or More Units	0.5	Q	Q	0.4	Q	35.6
Heat Pump	9.7	7.5	0.2	1.5	0.5	18.4
Other	1.8	1.0	0.1	0.4	0.3	21.0
Fuel Oil	9.5	7.1	0.5	1.8	Q	13.6
Steam or Hot-Water System	5.2	3.4	0.3	1.5	Q	14.1
For One Housing Unit	3.4	3.2	Q	Q	Q	18.9
For Two or More Units	1.8	0.2	0.2	1.4	Q	20.1
Central Warm-Air Furnace	3.8	3.4	0.1	0.2	Q	23.6
Other	0.4	0.4	Q	Q	Q	38.4
Wood	2.2	1.9	Q	Q	0.3	21.3
Heating Stove	1.5	1.3	Q	Q	0.2	21.9
Other	0.7	0.6	Q	Q	Q	38.8
LPG	4.6	3.5	Q	Q	1.0	16.9
Central Warm-Air Furnace	3.2	2.3	Q	Q	0.8	20.1
Room Heater	0.9	0.8	Q	Q	Q	30.9
Other	0.5	0.4	Q	Q	Q	36.6
Kerosene	1.0	0.5	Q	Q	0.4	26.4
Other	0.4	0.2	Q	0.2	Q	50.9
None	0.8	0.4	Q	0.3	Q	38.6
Amount of Heat Provided by Main Heating Equipment						
All or Almost All	93.3	67.0	5.5	15.0	5.8	4.3
About Three-Fourths	4.2	3.8	Q	Q	0.2	17.2
Closer to One-Half	3.2	2.6	Q	0.3	0.2	19.9
No Main Equipment	0.8	0.4	Q	0.3	Q	38.6

See footnotes at end of table.

**Table HC3-4a. Space Heating by Type of Housing Unit,
Million U.S. Households, 1997 (Continued)**

Space Heating Characteristics	Type of Housing Unit					RSE Row Factors
	Total	Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.6	1.7	1.3	1.6	
Age of Main Heating Equipment						
Less than 2 Years	8.7	6.8	0.3	0.6	1.0	12.3
2 to 4 Years	12.1	9.6	0.4	1.1	1.0	10.0
5 to 9 Years	19.9	15.5	0.8	2.2	1.3	9.5
10 to 19 Years	25.0	19.4	1.0	3.0	1.6	7.7
20 Years or More	26.0	18.7	1.6	4.8	1.0	7.8
Don't Know	9.0	3.4	1.5	3.7	0.3	12.0
No Main Equipment	0.8	0.4	Q	0.3	Q	38.6
Secondary Heating Fuel and Equipment (more than one may apply)						
No	67.2	43.8	4.7	14.3	4.5	4.5
Yes	34.3	30.0	1.0	1.5	1.8	7.6
Natural Gas	4.9	4.6	Q	Q	Q	16.5
Fireplace	2.5	2.5	Q	Q	Q	24.9
Room Heater	1.4	1.4	Q	Q	Q	28.4
Central Warm-Air Furnace	0.4	0.4	Q	Q	Q	40.0
Other Equipment	0.8	0.6	Q	Q	Q	35.4
Electricity	15.7	12.7	0.7	1.2	1.1	9.8
Portable Heater	12.3	9.8	0.5	1.1	0.9	10.2
Built-in Electric Units	2.7	2.5	Q	Q	Q	21.8
Other Equipment	0.8	0.5	Q	Q	Q	38.4
Fuel Oil	0.5	0.5	Q	Q	Q	33.1
Wood	12.9	12.2	Q	0.2	0.4	13.1
Fireplace	9.7	9.1	Q	0.2	0.3	14.6
Heating Stove	3.4	3.3	Q	Q	Q	18.7
Other Equipment	0.3	0.3	Q	Q	Q	44.9
LPG	1.3	1.2	Q	Q	0.1	25.5
Kerosene	2.6	2.3	Q	Q	0.2	17.4
Other	0.3	0.3	Q	Q	Q	43.5
Estimated Heated Floorspace Category (square feet)¹						
Fewer than 600	7.9	1.9	1.3	3.7	0.9	10.3
600 to 999	21.5	9.5	2.3	7.2	2.5	7.2
1,000 to 1,599	30.4	25.0	0.9	2.6	1.8	8.5
1,600 to 1,999	15.3	14.4	Q	0.3	0.4	10.1
2,000 to 2,399	7.9	7.7	Q	Q	Q	9.8
2,400 to 2,999	5.3	5.2	Q	Q	Q	13.5
3,000 or More	4.1	4.0	Q	Q	Q	19.4
No Estimate Provided	9.1	5.9	0.9	1.9	0.4	12.9

¹ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC3-5a. Space Heating by Type of Owner-Occupied Housing Unit,
Million U.S. Households, 1997**

Space Heating Characteristics	Total Owner-Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.4	2.6	2.2	1.1	
Total	68.5	61.1	0.9	1.2	5.3	6.2
Main Heating Fuel and Equipment						
Natural Gas	37.8	34.9	0.8	0.3	1.8	11.2
Central Warm-Air Furnace	29.8	27.6	0.4	Q	1.7	11.2
For One Housing Unit	29.3	27.2	0.3	Q	1.7	11.5
For Two or More Units	0.5	0.4	Q	Q	Q	58.4
Steam or Hot-Water System	4.1	3.6	0.3	Q	Q	17.4
For One Housing Unit	3.5	3.4	Q	Q	Q	23.5
For Two or More Units	0.6	0.2	Q	Q	Q	51.2
Floor, Wall, or Pipeless Furnace	1.8	1.7	Q	Q	Q	40.0
Room Heater/Other	2.1	1.9	Q	Q	Q	41.1
Electricity	17.3	14.6	Q	0.6	2.0	13.6
Built-In Electric Units	3.4	3.0	Q	0.3	Q	25.8
Central Warm-Air Furnace	6.0	4.4	Q	Q	1.4	21.3
For One Housing Unit	6.0	4.4	Q	Q	1.4	21.3
For Two or More Units	Q	Q	Q	Q	Q	NF
Heat Pump	7.0	6.5	Q	Q	0.4	26.8
Other	0.9	0.7	Q	Q	0.2	39.6
Fuel Oil	6.6	6.3	Q	0.2	Q	17.7
Steam or Hot-Water System	3.2	3.0	Q	0.2	Q	18.3
For One Housing Unit	2.9	2.9	Q	Q	Q	25.0
For Two or More Units	0.3	Q	Q	0.2	Q	21.6
Central Warm-Air Furnace	3.1	3.1	Q	Q	Q	33.6
Other	0.3	0.2	Q	Q	Q	74.4
Wood	1.8	1.6	Q	Q	0.2	32.4
Heating Stove	1.3	1.0	Q	Q	0.2	32.6
Other	0.6	0.5	Q	Q	Q	60.0
LPG	3.7	2.9	Q	Q	0.8	24.2
Central Warm-Air Furnace	2.6	2.0	Q	Q	0.6	28.4
Room Heater	0.8	0.6	Q	Q	Q	45.8
Other	0.4	0.3	Q	Q	Q	55.1
Kerosene	0.7	0.4	Q	Q	0.3	43.2
Other	0.2	0.2	Q	Q	Q	87.0
None	0.4	0.3	Q	Q	Q	47.1
Amount of Heat Provided by Main Heating Equipment						
All or Almost All	62.2	55.4	0.9	1.1	4.8	6.7
About Three-Fourths	3.4	3.2	Q	Q	0.2	23.7
Closer to One-Half	2.5	2.3	Q	Q	0.2	25.6
No Main Equipment	0.4	0.3	Q	Q	Q	47.1

See footnotes at end of table.

Table HC3-5a. Space Heating by Type of Owner-Occupied Housing Unit, Million U.S. Households, 1997 (Continued)

Space Heating Characteristics	Total Owner-Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.4	2.6	2.2	1.1	
Age of Main Heating Equipment						
Less than 2 Years	6.7	5.6	Q	Q	0.9	15.4
2 to 4 Years	9.5	8.4	Q	Q	0.9	12.8
5 to 9 Years	14.9	13.5	0.2	Q	1.1	12.8
10 to 19 Years	18.5	16.7	0.2	0.2	1.4	12.2
20 Years or More	16.7	15.2	0.3	0.4	0.8	12.7
Don't Know	1.8	1.4	Q	Q	Q	34.3
No Main Equipment	0.4	0.3	Q	Q	Q	47.1
Secondary Heating Fuel and Equipment (more than one may apply)						
No	40.2	34.7	0.7	1.1	3.7	8.4
Yes	28.2	26.4	0.2	Q	1.5	9.8
Natural Gas	4.4	4.3	Q	Q	Q	22.1
Fireplace	2.5	2.5	Q	Q	Q	34.4
Room Heater	1.2	1.2	Q	Q	Q	26.7
Central Warm-Air Furnace	0.4	0.4	Q	Q	Q	55.4
Other Equipment	0.5	0.4	Q	Q	Q	57.7
Electricity	12.0	10.9	Q	Q	0.9	13.2
Portable Heater	9.2	8.3	Q	Q	0.8	14.0
Built-in Electric Units	2.2	2.2	Q	Q	Q	30.7
Other Equipment	0.6	0.5	Q	Q	Q	61.7
Fuel Oil	0.4	0.4	Q	Q	Q	53.0
Wood	11.4	11.0	Q	Q	0.4	14.5
Fireplace	8.4	8.1	Q	Q	0.3	16.5
Heating Stove	3.1	3.0	Q	Q	Q	27.1
Other Equipment	0.3	0.3	Q	Q	Q	61.2
LPG	1.3	1.1	Q	Q	Q	37.4
Kerosene	2.1	1.9	Q	Q	0.2	26.2
Other	0.3	0.3	Q	Q	Q	59.4
Estimated Heated Floorspace Category (square feet)¹						
Fewer than 600	1.7	0.7	Q	Q	0.7	30.5
600 to 999	8.5	5.8	0.3	0.4	2.0	13.8
1,000 to 1,599	22.9	20.7	0.2	0.3	1.7	11.3
1,600 to 1,999	13.6	13.0	Q	Q	0.4	12.6
2,000 to 2,399	7.3	7.2	Q	Q	Q	13.8
2,400 to 2,999	5.1	5.1	Q	Q	Q	18.7
3,000 or More	4.1	4.0	Q	Q	Q	26.5
No Estimate Provided	5.2	4.6	Q	Q	0.3	20.6

¹ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC3-6a. Space Heating by Type of Rented Housing Unit,
Million U.S. Households, 1997**

Space Heating Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.6	0.7	1.3	0.9	2.1	
Total	33.0	12.6	4.7	14.6	1.1	6.3
Main Heating Fuel and Equipment						
Natural Gas	15.7	7.6	2.7	5.1	0.3	10.7
Central Warm-Air Furnace	8.6	4.7	1.2	2.4	0.3	14.6
For One Housing Unit	7.7	4.6	1.0	1.9	0.3	15.7
For Two or More Units	0.9	0.2	0.2	0.5	Q	32.3
Steam or Hot-Water System	3.2	0.6	0.8	1.7	Q	21.1
For One Housing Unit	1.5	0.4	0.5	0.5	Q	33.0
For Two or More Units	1.7	0.2	0.3	1.2	Q	23.2
Floor, Wall, or Pipeless Furnace	2.2	1.2	0.4	0.6	Q	20.9
Room Heater/Other	1.7	1.0	0.3	0.4	Q	22.3
Electricity	12.3	3.1	1.5	7.3	0.3	11.4
Built-In Electric Units	4.1	0.9	0.6	2.6	Q	18.2
Central Warm-Air Furnace	4.7	0.9	0.6	3.0	0.2	19.2
For One Housing Unit	4.2	0.9	0.5	2.6	0.2	19.9
For Two or More Units	0.5	Q	Q	0.4	Q	38.1
Heat Pump	2.7	1.0	Q	1.4	Q	22.8
Other	0.8	0.3	0.1	0.3	Q	29.5
Fuel Oil	2.9	0.8	0.4	1.6	Q	17.5
Steam or Hot-Water System	2.0	0.4	0.3	1.3	Q	19.2
For One Housing Unit	0.5	0.3	Q	Q	Q	33.3
For Two or More Units	1.5	Q	0.2	1.3	Q	16.7
Central Warm-Air Furnace	0.7	0.3	Q	0.2	Q	34.8
Other	0.2	Q	Q	Q	Q	45.5
Wood	0.4	0.3	Q	Q	Q	33.8
Heating Stove	0.3	0.2	Q	Q	Q	37.8
Other	Q	Q	Q	Q	Q	NF
LPG	0.9	0.6	Q	Q	0.2	24.4
Central Warm-Air Furnace	0.6	0.4	Q	Q	0.2	24.9
Room Heater	Q	Q	Q	Q	Q	NF
Other	0.1	Q	Q	Q	Q	68.2
Kerosene	0.3	0.1	Q	Q	Q	56.8
Other	0.2	Q	Q	0.2	Q	62.4
None	0.4	Q	Q	0.3	Q	55.0
Amount of Heat Provided by Main Heating Equipment						
All or Almost All	31.1	11.6	4.6	13.9	1.0	6.4
About Three-Fourths	0.8	0.6	Q	Q	Q	28.9
Closer to One-Half	0.7	0.3	Q	0.3	Q	35.1
No Main Equipment	0.4	Q	Q	0.3	Q	55.0

See footnotes at end of table.

**Table HC3-6a. Space Heating by Type of Rented Housing Unit,
Million U.S. Households, 1997 (Continued)**

Space Heating Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.6	0.7	1.3	0.9	2.1	
Age of Main Heating Equipment						
Less than 2 Years	2.0	1.1	0.2	0.5	Q	22.6
2 to 4 Years	2.6	1.2	0.4	1.0	Q	18.2
5 to 9 Years	5.0	2.1	0.7	2.1	0.2	15.5
10 to 19 Years	6.5	2.7	0.8	2.8	0.2	12.5
20 Years or More	9.3	3.4	1.3	4.4	0.2	12.6
Don't Know	7.2	2.0	1.4	3.6	0.2	12.7
No Main Equipment	0.4	Q	Q	0.3	Q	55.0
Secondary Heating Fuel and Equipment (more than one may apply)						
No	27.0	9.1	3.9	13.2	0.8	6.9
Yes	6.0	3.5	0.8	1.5	0.3	13.1
Natural Gas	0.6	0.4	Q	Q	Q	51.9
Fireplace	Q	Q	Q	Q	Q	NF
Room Heater	Q	Q	Q	Q	Q	NF
Central Warm-Air Furnace	Q	Q	Q	Q	Q	NF
Other Equipment	0.3	0.1	Q	Q	Q	36.6
Electricity	3.7	1.8	0.6	1.1	0.2	15.6
Portable Heater	3.1	1.5	0.4	1.0	Q	16.3
Built-in Electric Units	0.4	0.3	Q	Q	Q	39.0
Other Equipment	0.2	Q	Q	Q	Q	46.6
Fuel Oil	Q	Q	Q	Q	Q	NF
Wood	1.5	1.3	Q	0.2	Q	24.2
Fireplace	1.3	1.0	Q	0.2	Q	26.8
Heating Stove	0.3	0.2	Q	Q	Q	32.9
Other Equipment	Q	Q	Q	Q	Q	NF
LPG	Q	Q	Q	Q	Q	NF
Kerosene	0.5	0.4	Q	Q	Q	34.4
Other	Q	Q	Q	Q	Q	NF
Estimated Heated Floorspace Category (square feet)¹						
Fewer than 600	6.2	1.2	1.2	3.5	0.2	11.7
600 to 999	13.0	3.7	2.0	6.8	0.5	8.9
1,000 to 1,599	7.4	4.4	0.6	2.3	0.1	14.7
1,600 to 1,999	1.7	1.4	Q	0.3	Q	18.7
2,000 to 2,399	0.6	0.5	Q	Q	Q	29.7
2,400 to 2,999	0.2	0.2	Q	Q	Q	47.3
3,000 or More	Q	Q	Q	Q	Q	NF
No Estimate Provided	4.0	1.3	0.8	1.8	Q	17.3

¹ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

**Table HC3-7a. Space Heating by Four Most Populated States,
Million U.S. Households, 1997**

Space Heating Characteristics	Four Most Populated States					RSE Row Factors
	Total	New York	California	Texas	Florida	
	0.5	1.2	0.9	1.3	1.5	
RSE Column Factor:	0.5	1.2	0.9	1.3	1.5	
Total	101.5	6.8	11.5	7.0	5.9	NF
Main Heating Fuel and Equipment						
Natural Gas	53.5	3.4	7.8	3.8	0.7	8.6
Central Warm-Air Furnace	38.4	1.8	4.7	2.3	0.6	12.2
For One Housing Unit	37.0	1.7	4.7	2.2	0.6	12.2
For Two or More Units	1.3	Q	Q	Q	Q	22.9
Steam or Hot-Water System	7.3	1.5	Q	Q	Q	7.9
For One Housing Unit	5.0	0.9	Q	Q	Q	14.3
For Two or More Units	2.3	0.6	Q	Q	Q	22.7
Floor, Wall, or						
Pipeless Furnace	4.1	Q	2.2	0.6	Q	17.5
Room Heater/Other	3.8	0.1	0.7	0.9	0.1	16.9
Electricity	29.6	0.4	2.9	2.9	4.7	10.7
Built-In Electric Units	7.5	Q	0.8	0.3	0.5	24.4
Central Warm-Air Furnace	10.7	Q	1.4	1.8	1.8	17.0
For One Housing Unit	10.2	Q	1.3	1.7	1.7	16.7
For Two or More Units	0.5	Q	Q	Q	Q	56.9
Heat Pump	9.7	Q	0.3	0.6	2.4	18.4
Other	1.8	Q	0.4	0.2	Q	24.0
Fuel Oil	9.5	2.7	Q	Q	Q	15.2
Steam or Hot-Water System	5.2	2.1	Q	Q	Q	16.1
For One Housing Unit	3.4	0.8	Q	Q	Q	23.0
For Two or More Units	1.8	1.3	Q	Q	Q	11.8
Central Warm-Air Furnace	3.8	0.5	Q	Q	Q	22.2
Other	0.4	0.1	Q	Q	Q	18.6
Wood	2.2	0.2	0.3	Q	Q	24.3
Heating Stove	1.5	Q	0.2	Q	Q	21.3
Other	0.7	0.1	0.1	Q	Q	26.0
LPG	4.6	Q	0.2	0.3	0.1	22.9
Central Warm-Air Furnace	3.2	Q	0.2	0.1	Q	29.3
Room Heater	0.9	Q	Q	Q	Q	33.9
Other	0.5	Q	0.1	Q	Q	34.4
Kerosene	1.0	0.1	0.1	Q	Q	34.2
Other	0.4	Q	Q	Q	Q	63.4
None	0.8	>0	Q	Q	Q	22.0
Amount of Heat Provided by Main Heating Equipment						
All or Almost All	93.3	6.4	10.1	6.3	5.5	1.7
About Three-Fourths	4.2	0.3	0.5	0.4	Q	22.9
Closer to One-Half	3.2	0.1	0.7	Q	Q	20.8
No Main Equipment	0.8	>0	Q	Q	Q	22.0

See footnotes at end of table.

**Table HC3-7a. Space Heating by Four Most Populated States,
Million U.S. Households, 1997 (Continued)**

Space Heating Characteristics	Four Most Populated States					RSE Row Factors
	Total	New York	California	Texas	Florida	
	0.5	1.2	0.9	1.3	1.5	
RSE Column Factor:						
Age of Main Heating Equipment						
Less than 2 Years	8.7	0.4	0.7	0.6	0.7	14.3
2 to 4 Years	12.1	0.7	0.9	1.3	0.4	11.5
5 to 9 Years	19.9	1.1	1.8	1.5	1.8	8.1
10 to 19 Years	25.0	1.1	2.8	1.9	1.6	7.6
20 Years or More	26.0	2.4	4.6	1.0	0.6	7.9
Don't Know	9.0	1.2	0.5	0.6	0.6	16.5
No Main Equipment	0.8	>0	Q	Q	Q	22.0
Secondary Heating Fuel and Equipment (more than one may apply)						
No	67.2	5.0	8.1	4.5	4.6	4.3
Yes	34.3	1.8	3.4	2.4	1.3	10.3
Natural Gas	4.9	0.2	0.4	0.5	Q	22.3
Fireplace	2.5	0.1	Q	Q	Q	13.0
Room Heater	1.4	Q	Q	0.3	Q	21.6
Central Warm-Air Furnace	0.4	Q	Q	Q	Q	44.8
Other Equipment	0.8	Q	Q	0.1	Q	30.6
Electricity	15.7	0.9	1.5	1.3	0.5	13.4
Portable Heater	12.3	0.7	1.3	1.0	0.5	10.6
Built-in Electric Units	2.7	Q	0.3	Q	Q	19.7
Other Equipment	0.8	Q	Q	Q	Q	38.5
Fuel Oil	0.5	0.2	Q	Q	Q	33.9
Wood	12.9	0.7	1.8	0.8	0.7	15.4
Fireplace	9.7	0.4	1.6	0.7	0.6	15.3
Heating Stove	3.4	0.3	0.3	Q	Q	27.3
Other Equipment	0.3	Q	Q	Q	Q	50.1
LPG	1.3	Q	Q	Q	0.1	24.7
Kerosene	2.6	Q	Q	Q	Q	19.2
Other	0.3	Q	Q	Q	Q	49.3
Estimated Heated Floorspace Category (square feet)¹						
Fewer than 600	7.9	0.9	1.4	0.5	0.3	14.4
600 to 999	21.5	1.6	2.7	1.4	0.8	9.8
1,000 to 1,599	30.4	1.7	3.0	2.0	2.5	7.0
1,600 to 1,999	15.3	0.7	1.5	1.1	0.9	11.9
2,000 to 2,399	7.9	0.4	1.0	0.7	0.4	16.0
2,400 to 2,999	5.3	0.3	0.6	0.4	0.3	19.3
3,000 or More	4.1	0.2	0.2	Q	0.3	28.7
No Estimate Provided	9.1	1.0	1.0	0.4	0.4	18.2

¹ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

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**Table HC3-8a. Space Heating by Urban/Rural Location,
Million U.S. Households, 1997**

Space Heating Characteristics	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
		0.6	0.9	1.3	1.3	
Total	101.5	48.2	18.2	18.6	16.5	4.2
Main Heating Fuel and Equipment						
Natural Gas	53.5	29.7	9.5	11.0	3.3	6.2
Central Warm-Air Furnace	38.4	19.6	6.7	9.7	2.4	7.0
For One Housing Unit	37.0	18.8	6.4	9.4	2.4	7.0
For Two or More Units	1.3	0.8	0.3	0.2	Q	19.1
Steam or Hot-Water System	7.3	4.7	1.6	0.7	0.3	13.1
For One Housing Unit	5.0	3.0	1.2	0.6	0.3	15.1
For Two or More Units	2.3	1.7	0.4	Q	Q	19.5
Floor, Wall, or						
Pipeless Furnace	4.1	3.0	0.5	0.5	Q	17.7
Room Heater/Other	3.8	2.4	0.7	0.2	0.4	19.4
Electricity	29.6	13.9	5.0	5.5	5.2	7.2
Built-In Electric Units	7.5	3.2	1.8	1.1	1.3	13.8
Central Warm-Air Furnace	10.7	5.8	1.7	1.7	1.6	13.3
For One Housing Unit	10.2	5.4	1.6	1.6	1.5	13.6
For Two or More Units	0.5	0.4	Q	0.1	Q	36.4
Heat Pump	9.7	3.9	1.2	2.5	2.1	13.2
Other	1.8	1.0	0.3	0.2	0.3	21.6
Fuel Oil	9.5	3.1	2.3	1.5	2.6	11.6
Steam or Hot-Water System	5.2	2.1	1.2	1.0	1.0	12.7
For One Housing Unit	3.4	0.7	1.0	0.9	0.8	14.9
For Two or More Units	1.8	1.4	0.2	Q	0.1	17.8
Central Warm-Air Furnace	3.8	0.8	1.0	0.5	1.5	17.1
Other	0.4	0.2	0.1	Q	0.1	32.6
Wood	2.2	0.3	0.3	0.1	1.5	21.2
Heating Stove	1.5	0.2	0.2	Q	1.0	19.5
Other	0.7	0.1	0.1	Q	0.5	31.3
LPG	4.6	0.4	0.9	0.2	3.1	19.1
Central Warm-Air Furnace	3.2	0.2	0.6	0.1	2.3	24.8
Room Heater	0.9	Q	0.2	Q	0.6	24.0
Other	0.5	0.1	0.2	Q	0.2	27.3
Kerosene	1.0	0.2	0.2	Q	0.6	26.6
Other	0.4	0.2	Q	Q	0.2	44.0
None	0.8	0.5	Q	0.2	Q	23.9
Amount of Heat Provided by Main Heating Equipment						
All or Almost All	93.3	45.2	16.7	17.5	13.9	4.3
About Three-Fourths	4.2	1.5	0.8	0.5	1.5	14.6
Closer to One-Half	3.2	1.1	0.6	0.4	1.0	14.5
No Main Equipment	0.8	0.5	Q	0.2	Q	23.9

See footnotes at end of table.

**Table HC3-8a. Space Heating by Urban/Rural Location,
Million U.S. Households, 1997 (Continued)**

Space Heating Characteristics	Urban/Rural Location ¹					RSE Row Factors
	Total	City	Town	Suburbs	Rural	
	0.6	0.9	1.3	1.3	1.2	
Age of Main Heating Equipment						
Less than 2 Years	8.7	3.9	1.5	1.4	2.0	9.3
2 to 4 Years	12.1	4.7	2.1	2.5	2.8	7.8
5 to 9 Years	19.9	8.6	3.5	4.3	3.5	7.6
10 to 19 Years	25.0	10.6	4.8	5.5	4.2	6.6
20 Years or More	26.0	14.0	4.9	3.7	3.4	6.2
Don't Know	9.0	5.9	1.3	1.1	0.6	12.4
No Main Equipment	0.8	0.5	Q	0.2	Q	23.9
Secondary Heating Fuel and Equipment (more than one may apply)						
No	67.2	36.7	11.7	10.8	8.1	4.3
Yes	34.3	11.6	6.5	7.8	8.4	6.0
Natural Gas	4.9	2.4	0.8	1.2	0.6	14.8
Fireplace	2.5	1.1	0.4	0.8	0.3	22.6
Room Heater	1.4	0.8	0.4	0.2	0.1	23.3
Central Warm-Air Furnace	0.4	0.2	Q	0.1	Q	38.2
Other Equipment	0.8	0.5	Q	0.2	Q	26.5
Electricity	15.7	5.9	3.1	3.5	3.2	8.3
Portable Heater	12.3	4.9	2.4	2.9	2.1	9.2
Built-in Electric Units	2.7	0.9	0.5	0.5	0.7	17.5
Other Equipment	0.8	0.3	0.1	Q	0.3	30.5
Fuel Oil	0.5	0.1	0.1	Q	0.3	32.2
Wood	12.9	3.2	2.5	3.6	3.6	9.0
Fireplace	9.7	2.8	1.8	3.0	2.1	10.1
Heating Stove	3.4	0.4	0.7	0.6	1.6	16.6
Other Equipment	0.3	0.2	Q	Q	0.1	43.7
LPG	1.3	0.2	0.2	0.1	0.9	28.8
Kerosene	2.6	0.8	0.4	0.5	0.9	16.6
Other	0.3	Q	Q	0.1	0.1	35.1
Estimated Heated Floorspace Category (square feet)²						
Fewer than 600	7.9	5.0	1.4	0.6	0.8	11.5
600 to 999	21.5	12.4	4.1	2.4	2.6	7.5
1,000 to 1,599	30.4	14.5	5.2	5.7	4.9	6.3
1,600 to 1,999	15.3	6.0	2.9	3.4	3.0	7.8
2,000 to 2,399	7.9	2.9	1.2	2.3	1.5	9.4
2,400 to 2,999	5.3	1.5	0.9	1.7	1.1	13.4
3,000 or More	4.1	1.3	0.7	1.3	0.9	15.9
No Estimate Provided	9.1	4.6	1.6	1.2	1.7	12.1

¹ Based on the household respondent's description rather than the Federal Government definition.

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC3-9a. Space Heating by Northeast Census Region,
Million U.S. Households, 1997**

Space Heating Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.1	1.3	1.5	
Total	101.5	19.7	14.4	5.3	NF
Main Heating Fuel and Equipment					
Natural Gas	53.5	9.2	7.7	1.5	9.5
Central Warm-Air Furnace	38.4	5.1	4.6	0.5	13.1
For One Housing Unit	37.0	4.8	4.4	0.4	13.2
For Two or More Units	1.3	0.3	0.2	Q	28.8
Steam or Hot-Water System	7.3	3.6	2.8	0.8	11.2
For One Housing Unit	5.0	2.6	1.9	0.7	13.8
For Two or More Units	2.3	1.0	0.9	Q	17.5
Floor, Wall, or					
Pipeless Furnace	4.1	Q	Q	Q	19.4
Room Heater/Other	3.8	0.3	Q	Q	29.7
Electricity	29.6	2.3	1.7	0.6	12.3
Built-In Electric Units	7.5	1.3	1.0	0.3	18.5
Central Warm-Air Furnace	10.7	0.4	0.2	Q	25.4
For One Housing Unit	10.2	0.3	Q	Q	23.7
For Two or More Units	0.5	Q	Q	Q	55.6
Heat Pump	9.7	0.4	0.3	Q	31.1
Other	1.8	0.3	Q	Q	28.3
Fuel Oil	9.5	7.1	4.4	2.7	10.1
Steam or Hot-Water System	5.2	4.8	3.2	1.6	10.3
For One Housing Unit	3.4	3.0	1.7	1.3	11.3
For Two or More Units	1.8	1.8	1.5	0.3	13.7
Central Warm-Air Furnace	3.8	2.1	1.0	1.1	16.6
Other	0.4	0.2	Q	0.1	31.0
Wood	2.2	0.4	0.2	0.1	22.8
Heating Stove	1.5	0.3	0.2	0.1	24.7
Other	0.7	Q	Q	Q	43.1
LPG	4.6	0.2	Q	Q	29.3
Central Warm-Air Furnace	3.2	0.2	Q	Q	31.5
Room Heater	0.9	Q	Q	Q	33.2
Other	0.5	Q	Q	Q	37.0
Kerosene	1.0	0.4	0.2	Q	31.6
Other	0.4	0.1	Q	Q	51.5
None	0.8	Q	Q	Q	38.2
Amount of Heat Provided by Main Heating Equipment					
All or Almost All	93.3	18.4	13.5	4.9	1.0
About Three-Fourths	4.2	0.8	0.5	0.2	17.4
Closer to One-Half	3.2	0.5	0.4	0.2	19.1
No Main Equipment	0.8	Q	Q	Q	38.2

See footnotes at end of table.

**Table HC3-9a. Space Heating by Northeast Census Region,
Million U.S. Households, 1997 (Continued)**

Space Heating Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.1	1.3	1.5	
Age of Main Heating Equipment					
Less than 2 Years	8.7	1.4	0.9	0.4	12.0
2 to 4 Years	12.1	2.0	1.5	0.5	9.0
5 to 9 Years	19.9	3.5	2.5	0.9	7.3
10 to 19 Years	25.0	4.0	3.0	1.1	8.0
20 Years or More	26.0	6.3	4.5	1.8	5.2
Don't Know	9.0	2.5	2.0	0.6	12.6
No Main Equipment	0.8	Q	Q	Q	38.2
Secondary Heating Fuel and Equipment (more than one may apply)					
No	67.2	13.6	9.8	3.8	2.4
Yes	34.3	6.1	4.6	1.5	5.3
Natural Gas	4.9	0.4	0.4	Q	17.4
Fireplace	2.5	Q	Q	Q	27.6
Room Heater	1.4	Q	Q	Q	30.8
Central Warm-Air Furnace	0.4	Q	Q	Q	43.8
Other Equipment	0.8	Q	Q	Q	36.2
Electricity	15.7	2.9	2.3	0.6	11.0
Portable Heater	12.3	2.1	1.7	0.4	9.7
Built-in Electric Units	2.7	0.7	0.6	0.1	26.0
Other Equipment	0.8	Q	Q	Q	37.7
Fuel Oil	0.5	0.4	0.3	0.1	20.1
Wood	12.9	2.2	1.4	0.7	10.9
Fireplace	9.7	1.1	0.9	0.2	15.7
Heating Stove	3.4	1.1	0.5	0.6	16.9
Other Equipment	0.3	Q	Q	Q	49.0
LPG	1.3	0.2	Q	Q	36.6
Kerosene	2.6	0.5	0.4	0.1	18.6
Other	0.3	Q	Q	Q	48.2
Estimated Heated Floorspace Category (square feet)¹					
Fewer than 600	7.9	1.9	1.5	0.4	10.7
600 to 999	21.5	4.4	3.1	1.3	4.9
1,000 to 1,599	30.4	5.1	3.7	1.4	7.0
1,600 to 1,999	15.3	2.4	1.7	0.7	9.7
2,000 to 2,399	7.9	1.4	1.0	0.3	12.5
2,400 to 2,999	5.3	1.0	0.7	0.3	17.5
3,000 or More	4.1	0.7	0.4	0.2	19.3
No Estimate Provided	9.1	2.9	2.3	0.7	11.7

¹ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.
NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC3-10a. Space Heating by Midwest Census Region,
Million U.S. Households, 1997**

Space Heating Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.6	
Total	101.5	24.1	16.9	7.2	NF
Main Heating Fuel and Equipment					
Natural Gas	53.5	17.9	13.2	4.7	5.4
Central Warm-Air Furnace	38.4	14.9	10.8	4.2	5.6
For One Housing Unit	37.0	14.2	10.2	4.0	5.6
For Two or More Units	1.3	0.8	0.6	Q	12.3
Steam or Hot-Water System	7.3	2.5	2.0	0.5	14.2
For One Housing Unit	5.0	1.5	1.2	0.3	19.1
For Two or More Units	2.3	1.0	0.8	Q	20.6
Floor, Wall, or Pipeless Furnace	4.1	0.2	Q	Q	30.2
Room Heater/Other	3.8	0.3	0.2	Q	26.3
Electricity	29.6	2.7	1.9	0.8	15.6
Built-In Electric Units	7.5	1.3	1.1	0.2	17.4
Central Warm-Air Furnace	10.7	1.0	0.5	0.6	26.3
For One Housing Unit	10.2	1.0	0.4	0.6	26.7
For Two or More Units	0.5	Q	Q	Q	55.3
Heat Pump	9.7	0.3	0.2	Q	26.7
Other	1.8	Q	Q	Q	23.2
Fuel Oil	9.5	1.0	0.6	0.4	17.1
Steam or Hot-Water System	5.2	Q	Q	Q	18.5
For One Housing Unit	3.4	Q	Q	Q	20.8
For Two or More Units	1.8	Q	Q	Q	19.9
Central Warm-Air Furnace	3.8	0.8	0.5	0.3	19.7
Other	0.4	Q	Q	Q	37.7
Wood	2.2	0.4	Q	Q	31.6
Heating Stove	1.5	0.2	Q	Q	28.8
Other	0.7	Q	Q	Q	42.8
LPG	4.6	1.8	0.9	0.9	21.8
Central Warm-Air Furnace	3.2	1.5	0.8	0.7	24.1
Room Heater	0.9	Q	Q	Q	33.0
Other	0.5	0.2	Q	0.1	25.5
Kerosene	1.0	Q	Q	Q	34.2
Other	0.4	Q	Q	Q	61.6
None	0.8	Q	Q	Q	38.0
Amount of Heat Provided by Main Heating Equipment					
All or Almost All	93.3	22.9	16.2	6.8	1.0
About Three-Fourths	4.2	0.8	0.5	0.3	20.4
Closer to One-Half	3.2	0.4	0.2	Q	14.8
No Main Equipment	0.8	Q	Q	Q	38.0

See footnotes at end of table.

**Table HC3-10a. Space Heating by Midwest Census Region,
Million U.S. Households, 1997 (Continued)**

Space Heating Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.6	
Age of Main Heating Equipment					
Less than 2 Years	8.7	1.8	1.3	0.5	8.9
2 to 4 Years	12.1	2.9	2.0	0.9	8.9
5 to 9 Years	19.9	4.7	3.2	1.5	7.7
10 to 19 Years	25.0	5.3	3.5	1.8	6.8
20 Years or More	26.0	6.7	4.9	1.7	5.9
Don't Know	9.0	2.6	1.9	0.7	14.9
No Main Equipment	0.8	Q	Q	Q	38.0
Secondary Heating Fuel and Equipment (more than one may apply)					
No	67.2	16.5	11.7	4.9	3.2
Yes	34.3	7.5	5.2	2.3	6.8
Natural Gas	4.9	1.4	1.1	0.3	17.6
Fireplace	2.5	0.8	0.7	Q	25.4
Room Heater	1.4	0.3	Q	Q	21.9
Central Warm-Air Furnace	0.4	Q	Q	Q	43.6
Other Equipment	0.8	Q	Q	Q	35.9
Electricity	15.7	3.8	2.6	1.3	7.8
Portable Heater	12.3	3.2	2.1	1.0	7.7
Built-in Electric Units	2.7	0.6	0.4	0.2	22.9
Other Equipment	0.8	Q	Q	Q	37.5
Fuel Oil	0.5	Q	Q	Q	34.3
Wood	12.9	2.2	1.5	0.7	11.0
Fireplace	9.7	1.7	1.2	0.5	11.4
Heating Stove	3.4	0.5	0.3	0.2	24.3
Other Equipment	0.3	Q	Q	Q	48.7
LPG	1.3	0.3	Q	0.2	24.8
Kerosene	2.6	0.4	0.3	Q	18.4
Other	0.3	Q	Q	Q	47.9
Estimated Heated Floorspace Category (square feet)¹					
Fewer than 600	7.9	1.7	1.3	0.4	12.7
600 to 999	21.5	5.1	3.6	1.5	8.7
1,000 to 1,599	30.4	6.9	4.8	2.1	6.5
1,600 to 1,999	15.3	4.2	2.9	1.3	6.5
2,000 to 2,399	7.9	1.8	1.2	0.6	9.4
2,400 to 2,999	5.3	1.4	1.0	0.4	14.6
3,000 or More	4.1	1.0	0.7	0.3	18.3
No Estimate Provided	9.1	1.9	1.4	0.5	16.4

¹ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.
NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC3-11a. Space Heating by South Census Region,
Million U.S. Households, 1997**

Space Heating Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.9	1.2	1.4	1.3	
Total	101.5	35.9	18.7	6.3	10.8	NF
Main Heating Fuel and Equipment						
Natural Gas	53.5	13.7	5.4	2.3	6.1	7.5
Central Warm-Air Furnace	38.4	9.7	4.1	1.8	3.8	9.1
For One Housing Unit	37.0	9.5	4.0	1.8	3.7	9.2
For Two or More Units	1.3	Q	Q	Q	Q	21.6
Steam or Hot-Water System	7.3	0.5	0.4	Q	Q	20.7
For One Housing Unit	5.0	0.5	0.4	Q	Q	24.3
For Two or More Units	2.3	Q	Q	Q	Q	24.4
Floor, Wall, or						
Pipeless Furnace	4.1	1.3	0.3	Q	0.8	25.6
Room Heater/Other	3.8	2.3	0.5	0.4	1.4	20.8
Electricity	29.6	17.5	10.4	2.9	4.2	7.2
Built-In Electric Units	7.5	2.1	1.3	0.5	0.3	19.4
Central Warm-Air Furnace	10.7	6.5	2.7	1.0	2.8	14.7
For One Housing Unit	10.2	6.2	2.6	1.0	2.6	14.9
For Two or More Units	0.5	0.3	Q	Q	Q	49.3
Heat Pump	9.7	8.0	6.0	1.2	0.8	13.8
Other	1.8	0.8	0.4	0.2	0.2	20.6
Fuel Oil	9.5	1.1	1.1	Q	Q	26.7
Steam or Hot-Water System	5.2	0.3	0.3	Q	Q	22.7
For One Housing Unit	3.4	0.3	0.3	Q	Q	23.7
For Two or More Units	1.8	Q	Q	Q	Q	19.4
Central Warm-Air Furnace	3.8	0.8	0.7	Q	Q	34.0
Other	0.4	Q	Q	Q	Q	36.6
Wood	2.2	0.7	0.4	0.2	Q	20.7
Heating Stove	1.5	0.5	0.3	0.1	Q	25.5
Other	0.7	0.2	Q	Q	Q	38.9
LPG	4.6	2.1	0.8	0.8	0.4	18.1
Central Warm-Air Furnace	3.2	1.0	0.5	0.4	0.2	22.8
Room Heater	0.9	0.8	Q	0.4	0.2	19.6
Other	0.5	0.2	Q	Q	Q	36.6
Kerosene	1.0	0.4	0.4	Q	Q	20.2
Other	0.4	Q	Q	Q	Q	59.8
None	0.8	0.3	Q	Q	Q	43.0
Amount of Heat Provided by Main Heating Equipment						
All or Almost All	93.3	32.8	17.1	5.6	10.0	1.2
About Three-Fourths	4.2	1.7	0.8	0.4	0.5	17.1
Closer to One-Half	3.2	1.1	0.5	0.3	0.3	17.8
No Main Equipment	0.8	0.3	Q	Q	Q	43.0

See footnotes at end of table.

**Table HC3-11a. Space Heating by South Census Region,
Million U.S. Households, 1997 (Continued)**

Space Heating Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.9	1.2	1.4	1.3	
Age of Main Heating Equipment						
Less than 2 Years	8.7	3.9	2.2	0.7	1.0	9.9
2 to 4 Years	12.1	5.5	2.4	1.3	1.8	7.8
5 to 9 Years	19.9	8.4	4.8	1.5	2.2	7.0
10 to 19 Years	25.0	9.8	4.9	1.5	3.4	5.9
20 Years or More	26.0	5.4	2.7	1.0	1.6	6.5
Don't Know	9.0	2.6	1.5	0.4	0.8	16.7
No Main Equipment	0.8	0.3	Q	Q	Q	43.0
Secondary Heating Fuel and Equipment (more than one may apply)						
No	67.2	22.4	11.8	3.5	7.0	2.8
Yes	34.3	13.5	6.9	2.8	3.8	4.7
Natural Gas	4.9	2.3	0.9	0.4	1.0	17.5
Fireplace	2.5	1.1	0.5	0.2	0.4	27.3
Room Heater	1.4	0.9	Q	0.2	0.4	18.5
Central Warm-Air Furnace	0.4	Q	Q	Q	Q	42.3
Other Equipment	0.8	0.3	Q	Q	0.2	22.5
Electricity	15.7	5.9	2.8	1.2	1.9	9.5
Portable Heater	12.3	4.7	2.3	0.9	1.5	10.5
Built-in Electric Units	2.7	0.7	0.2	Q	0.4	23.7
Other Equipment	0.8	0.5	0.2	0.1	Q	26.1
Fuel Oil	0.5	Q	Q	Q	Q	33.3
Wood	12.9	5.0	2.9	0.9	1.2	8.8
Fireplace	9.7	4.2	2.4	0.7	1.1	9.3
Heating Stove	3.4	0.9	0.5	0.3	Q	20.0
Other Equipment	0.3	0.3	Q	Q	Q	39.3
LPG	1.3	0.7	0.4	0.2	Q	23.8
Kerosene	2.6	1.5	1.0	0.4	Q	16.0
Other	0.3	Q	Q	Q	Q	46.5
Estimated Heated Floorspace Category (square feet)¹						
Fewer than 600	7.9	2.1	1.0	0.4	0.6	13.4
600 to 999	21.5	6.8	3.3	1.4	2.1	6.6
1,000 to 1,599	30.4	11.8	6.5	1.9	3.4	6.7
1,600 to 1,999	15.3	5.7	2.9	1.0	1.8	8.8
2,000 to 2,399	7.9	3.0	1.4	0.5	1.1	10.6
2,400 to 2,999	5.3	1.8	0.9	0.3	0.6	14.5
3,000 or More	4.1	1.8	0.8	0.3	0.7	21.2
No Estimate Provided	9.1	2.9	1.8	0.5	0.7	17.0

¹ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

**Table HC3-12a. Space Heating by West Census Region,
Million U.S. Households, 1997**

Space Heating Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.1	
Total	101.5	21.8	6.2	15.6	NF
Main Heating Fuel and Equipment					
Natural Gas	53.5	12.7	4.0	8.7	3.6
Central Warm-Air Furnace	38.4	8.7	3.2	5.5	5.9
For One Housing Unit	37.0	8.5	3.1	5.4	6.0
For Two or More Units	1.3	0.2	Q	Q	24.3
Steam or Hot-Water System	7.3	0.7	0.5	0.2	20.9
For One Housing Unit	5.0	0.4	0.2	0.2	22.7
For Two or More Units	2.3	0.3	Q	Q	33.3
Floor, Wall, or Pipeless Furnace	4.1	2.5	0.2	2.2	10.8
Room Heater/Other	3.8	0.8	0.1	0.7	17.9
Electricity	29.6	7.1	1.7	5.4	7.0
Built-In Electric Units	7.5	2.7	0.4	2.3	15.8
Central Warm-Air Furnace	10.7	2.8	0.7	2.1	13.4
For One Housing Unit	10.2	2.7	0.6	2.1	13.4
For Two or More Units	0.5	Q	Q	Q	50.8
Heat Pump	9.7	1.0	0.4	0.6	12.5
Other	1.8	0.6	0.2	0.4	19.8
Fuel Oil	9.5	0.2	Q	Q	23.6
Steam or Hot-Water System	5.2	Q	Q	Q	17.0
For One Housing Unit	3.4	Q	Q	Q	19.1
For Two or More Units	1.8	Q	Q	Q	18.3
Central Warm-Air Furnace	3.8	0.1	Q	Q	32.8
Other	0.4	Q	Q	Q	34.7
Wood	2.2	0.7	0.2	0.5	18.4
Heating Stove	1.5	0.6	0.1	0.4	20.9
Other	0.7	Q	Q	Q	39.4
LPG	4.6	0.5	0.3	0.3	24.9
Central Warm-Air Furnace	3.2	0.4	0.2	0.2	28.2
Room Heater	0.9	Q	Q	Q	30.3
Other	0.5	Q	Q	Q	33.8
Kerosene	1.0	Q	Q	Q	31.5
Other	0.4	Q	Q	Q	56.6
None	0.8	0.5	Q	0.5	18.5
Amount of Heat Provided by Main Heating Equipment					
All or Almost All	93.3	19.2	5.7	13.4	1.2
About Three-Fourths	4.2	1.0	0.2	0.8	15.8
Closer to One-Half	3.2	1.2	0.2	1.0	13.4
No Main Equipment	0.8	0.5	Q	0.5	18.5

See footnotes at end of table.

**Table HC3-12a. Space Heating by West Census Region,
Million U.S. Households, 1997 (Continued)**

Space Heating Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.1	
Age of Main Heating Equipment					
Less than 2 Years	8.7	1.7	0.7	0.9	13.2
2 to 4 Years	12.1	1.8	0.6	1.2	10.1
5 to 9 Years	19.9	3.3	0.8	2.5	7.5
10 to 19 Years	25.0	5.9	1.9	3.9	6.1
20 Years or More	26.0	7.6	1.7	5.9	5.7
Don't Know	9.0	1.2	0.5	0.7	17.0
No Main Equipment	0.8	0.5	Q	0.5	18.5
Secondary Heating Fuel and Equipment (more than one may apply)					
No	67.2	14.7	4.0	10.7	3.3
Yes	34.3	7.1	2.2	4.9	6.6
Natural Gas	4.9	0.8	0.3	0.4	18.6
Fireplace	2.5	0.5	0.2	0.3	27.7
Room Heater	1.4	Q	Q	Q	28.1
Central Warm-Air Furnace	0.4	Q	Q	Q	40.0
Other Equipment	0.8	0.2	Q	Q	38.7
Electricity	15.7	3.1	0.9	2.2	9.7
Portable Heater	12.3	2.3	0.7	1.7	9.9
Built-in Electric Units	2.7	0.7	0.2	0.5	22.9
Other Equipment	0.8	0.1	Q	Q	38.1
Fuel Oil	0.5	Q	Q	Q	31.5
Wood	12.9	3.6	1.0	2.6	8.8
Fireplace	9.7	2.7	0.6	2.1	9.3
Heating Stove	3.4	0.9	0.3	0.6	19.8
Other Equipment	0.3	Q	Q	Q	44.8
LPG	1.3	Q	Q	Q	26.8
Kerosene	2.6	Q	Q	Q	17.2
Other	0.3	Q	Q	Q	44.0
Estimated Heated Floorspace Category (square feet)¹					
Fewer than 600	7.9	2.2	0.5	1.7	11.2
600 to 999	21.5	5.1	1.4	3.7	8.2
1,000 to 1,599	30.4	6.5	2.1	4.5	5.3
1,600 to 1,999	15.3	3.0	0.8	2.2	7.2
2,000 to 2,399	7.9	1.7	0.5	1.2	11.9
2,400 to 2,999	5.3	1.2	0.3	0.8	10.6
3,000 or More	4.1	0.6	0.3	0.4	20.2
No Estimate Provided	9.1	1.4	0.3	1.1	14.3

¹ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.
NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

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

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

1997 Housing Characteristics Tables

Space Heating Tables

(Percent of U.S. Households; 24 pages, 85 kb)

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These data are from the 1997 Residential Energy Consumption Survey (RECS) which provides information on the use of energy in residential housing units in the United States. The RECS is a national statistical survey that collects data for occupied primary housing units. RECS was first conducted in 1978; the sixth and most recent survey was conducted in 1997 RECS. The data were collected from a sample of 5,900 housing units statistically selected to represent the 101.5 million units in the United States. The 1997 data are available for the four Census regions, the nine Census divisions, and for the four most populous States--California, Florida, New York, and Texas.

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

**Table HC3-1b. Space Heating by Climate Zone,
Percent of U.S. Households, 1997**

Space Heating Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.4	1.1	1.1	1.1	1.0	
Total	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Main Heating Fuel and Equipment							
Natural Gas	52.7	52.8	66.8	44.1	54.5	42.0	6.1
Central Warm-Air Furnace	37.8	41.6	51.7	30.2	34.9	29.0	7.2
For One Housing Unit	36.5	39.3	49.1	29.2	34.4	28.5	7.4
For Two or More Units	1.3	Q	2.5	Q	Q	Q	15.3
Steam or Hot-Water System	7.2	9.2	12.8	10.9	Q	1.0	16.0
For One Housing Unit	5.0	6.8	8.8	7.0	Q	Q	15.6
For Two or More Units	2.2	2.3	3.9	3.9	Q	Q	20.6
Floor, Wall, or							
Pipeless Furnace	4.0	Q	Q	1.9	12.3	4.2	19.1
Room Heater/Other	3.7	Q	1.5	1.1	6.4	7.7	22.6
Electricity	29.2	11.8	15.3	30.1	33.6	49.1	9.2
Built-In Electric Units	7.3	7.5	8.5	9.1	7.1	4.2	19.0
Central Warm-Air Furnace	10.6	2.4	4.1	7.8	11.1	24.6	18.8
For One Housing Unit	10.1	2.2	3.6	7.6	10.8	23.4	19.3
For Two or More Units	0.5	Q	Q	Q	Q	1.2	44.5
Heat Pump	9.5	Q	1.8	11.9	12.7	17.5	17.9
Other	1.7	Q	0.9	1.3	2.6	2.8	22.2
Fuel Oil	9.3	20.2	10.8	18.8	1.1	Q	16.9
Steam or Hot-Water System	5.1	7.0	5.6	13.2	Q	Q	18.8
For One Housing Unit	3.3	5.9	4.7	6.7	Q	Q	20.6
For Two or More Units	1.8	Q	0.9	6.5	Q	Q	18.7
Central Warm-Air Furnace	3.7	12.7	4.3	5.3	Q	Q	19.8
Other	0.4	Q	0.9	Q	Q	Q	32.0
Wood	2.2	6.1	1.4	2.1	2.6	1.2	24.2
Heating Stove	1.5	4.0	1.1	1.1	2.1	Q	23.3
Other	0.7	2.0	Q	Q	Q	Q	33.6
LPG	4.5	5.7	4.5	3.7	5.9	3.8	26.5
Central Warm-Air Furnace	3.1	3.9	4.2	2.8	3.1	1.7	27.7
Room Heater	0.9	Q	Q	Q	2.0	1.7	37.6
Other	0.5	1.4	Q	Q	0.8	Q	30.2
Kerosene	1.0	Q	0.6	0.5	1.6	Q	28.5
Other	0.4	Q	0.7	0.7	Q	Q	47.9
None	0.8	Q	Q	Q	Q	2.8	27.3
Amount of Heat Provided by Main Heating Equipment							
All or Almost All	91.9	89.9	94.5	92.1	90.8	90.2	1.2
About Three-Fourths	4.2	5.3	3.8	4.5	4.5	3.5	16.6
Closer to One-Half	3.2	4.8	1.6	3.2	4.2	3.5	16.3
No Main Equipment	0.8	Q	Q	Q	Q	2.8	27.3

See footnotes at end of table.

**Table HC3-1b. Space Heating by Climate Zone,
Percent of U.S. Households, 1997 (Continued)**

Space Heating Characteristics	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.4	1.1	1.1	1.1	1.0	
Age of Main Heating Equipment							
Less than 2 Years	8.6	9.6	7.6	7.3	8.7	10.5	10.6
2 to 4 Years	12.0	13.4	10.9	11.2	12.8	12.6	8.7
5 to 9 Years	19.6	21.2	18.2	17.3	19.0	23.5	7.2
10 to 19 Years	24.7	22.3	22.2	25.1	25.6	27.5	6.1
20 Years or More	25.6	25.6	30.6	27.3	29.2	14.4	5.6
Don't Know	8.8	7.8	10.4	11.6	4.1	8.6	14.3
No Main Equipment	0.8	Q	Q	Q	Q	2.8	27.3
Secondary Heating Fuel and Equipment (more than one may apply)							
No	66.2	57.7	69.0	64.2	64.8	69.6	2.9
Yes	33.8	42.3	31.0	35.8	35.2	30.4	5.6
Natural Gas	4.8	5.3	5.2	3.0	4.7	6.2	18.3
Fireplace	2.5	3.0	3.0	1.3	2.3	3.0	25.4
Room Heater	1.4	Q	1.2	Q	1.4	2.0	24.3
Central Warm-Air Furnace	0.4	Q	Q	Q	Q	Q	40.6
Other Equipment	0.8	Q	0.7	Q	1.2	1.0	30.0
Electricity	15.5	19.0	14.7	17.2	13.8	14.8	8.4
Portable Heater	12.1	15.3	11.3	13.6	11.1	11.3	8.2
Built-in Electric Units	2.6	4.1	2.9	2.9	1.6	2.5	22.8
Other Equipment	0.7	Q	Q	0.8	0.9	1.1	33.2
Fuel Oil	0.5	1.4	0.4	0.9	Q	Q	28.5
Wood	12.8	16.5	10.2	13.6	14.8	11.8	9.5
Fireplace	9.6	6.7	7.1	9.8	12.8	10.9	10.5
Heating Stove	3.3	9.8	3.4	3.8	2.2	1.0	20.6
Other Equipment	0.3	Q	Q	Q	Q	Q	45.5
LPG	1.3	2.3	0.8	1.3	1.8	1.1	28.4
Kerosene	2.5	1.9	2.4	3.5	3.4	1.2	19.5
Other	0.3	Q	Q	Q	Q	Q	44.7
Estimated Heated Floorspace Category (square feet)²							
Fewer than 600	7.8	5.5	7.0	8.9	10.3	6.3	11.2
600 to 999	21.2	22.7	22.1	20.4	22.4	19.1	6.9
1,000 to 1,599	29.9	33.2	27.4	26.5	33.5	32.0	5.7
1,600 to 1,999	15.1	15.5	16.6	14.6	13.5	14.7	8.4
2,000 to 2,399	7.8	6.3	7.9	7.6	7.5	8.7	10.2
2,400 to 2,999	5.3	5.1	6.1	4.9	4.8	5.0	14.2
3,000 or More	4.1	4.5	4.3	2.9	2.9	5.8	18.9
No Estimate Provided	9.0	7.3	8.6	14.2	5.1	8.4	13.6

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

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.
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.
• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC3-2b. Space Heating by Year of Construction,
Percent of U.S. Households, 1997**

Space Heating Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.5	1.2	1.0	1.1	1.1	0.9	
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Main Heating Fuel and Equipment								
Natural Gas	52.7	48.3	36.0	41.3	57.7	64.5	64.7	4.8
Central Warm-Air Furnace	37.8	47.2	33.3	33.4	42.2	42.5	36.0	6.2
For One Housing Unit	36.5	46.4	33.0	32.6	40.6	41.2	33.7	6.3
For Two or More Units	1.3	Q	Q	Q	1.6	Q	2.4	23.9
Steam or Hot-Water System	7.2	Q	1.3	4.4	6.2	6.8	15.8	16.4
For One Housing Unit	5.0	Q	1.2	2.7	4.0	5.4	10.7	19.8
For Two or More Units	2.2	Q	Q	1.7	2.2	Q	5.1	22.5
Floor, Wall, or								
Pipeless Furnace	4.0	Q	Q	2.1	4.8	9.1	6.0	18.1
Room Heater/Other	3.7	Q	0.8	1.4	4.4	6.1	6.9	21.2
Electricity	29.2	39.9	53.5	43.3	23.8	17.9	8.2	7.3
Built-In Electric Units	7.3	4.5	9.4	13.2	7.8	5.4	3.6	16.0
Central Warm-Air Furnace	10.6	15.7	21.8	16.1	7.6	4.9	2.0	14.1
For One Housing Unit	10.1	15.7	20.8	15.1	7.3	4.4	1.9	14.5
For Two or More Units	0.5	Q	1.0	1.0	Q	Q	Q	40.6
Heat Pump	9.5	19.1	21.3	12.4	6.1	4.4	1.0	16.4
Other	1.7	Q	1.1	1.6	2.2	3.2	1.7	21.7
Fuel Oil	9.3	2.7	3.2	5.1	10.2	11.4	17.0	14.4
Steam or Hot-Water System	5.1	1.3	1.4	2.6	5.3	6.4	10.0	19.5
For One Housing Unit	3.3	1.3	1.2	1.8	3.9	4.4	5.7	19.9
For Two or More Units	1.8	Q	Q	Q	1.3	2.0	4.3	26.0
Central Warm-Air Furnace	3.7	Q	1.6	2.3	4.4	4.5	6.3	19.8
Other	0.4	Q	Q	Q	Q	Q	0.7	34.5
Wood	2.2	Q	2.1	2.5	2.4	1.3	2.5	21.7
Heating Stove	1.5	Q	1.4	1.7	1.9	1.0	1.6	23.3
Other	0.7	Q	Q	Q	Q	Q	0.9	38.1
LPG	4.5	5.8	3.8	4.9	3.9	3.8	4.9	17.2
Central Warm-Air Furnace	3.1	5.3	3.4	3.7	2.2	1.6	2.9	22.2
Room Heater	0.9	Q	Q	0.9	1.1	1.3	1.2	28.7
Other	0.5	Q	Q	Q	Q	Q	0.9	33.4
Kerosene	1.0	Q	0.8	1.3	Q	Q	1.2	30.1
Other	0.4	Q	Q	Q	Q	Q	Q	57.0
None	0.8	Q	Q	0.9	Q	Q	0.9	35.9
Amount of Heat Provided by Main Heating Equipment								
All or Almost All	91.9	91.4	93.7	91.9	92.0	92.0	90.9	1.1
About Three-Fourths	4.2	4.2	3.0	4.4	4.1	3.9	4.8	18.7
Closer to One-Half	3.2	3.5	3.0	2.9	3.0	3.2	3.4	17.0
No Main Equipment	0.8	Q	Q	0.9	Q	Q	0.9	35.9

See footnotes at end of table.

**Table HC3-2b. Space Heating by Year of Construction,
Percent of U.S. Households, 1997 (Continued)**

Space Heating Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.5	1.2	1.0	1.1	1.1	0.9	
Age of Main Heating Equipment								
Less than 2 Years	8.6	26.3	4.6	7.4	9.2	6.8	6.2	10.3
2 to 4 Years	12.0	35.0	4.6	9.9	10.7	12.3	10.4	8.5
5 to 9 Years	19.6	34.8	34.9	12.4	14.9	16.5	13.6	7.1
10 to 19 Years	24.7	Q	49.2	29.9	16.7	20.0	20.4	5.9
20 Years or More	25.6	Q	Q	29.3	39.4	35.1	36.0	5.0
Don't Know	8.8	1.7	6.1	10.3	8.3	8.5	12.4	13.5
No Main Equipment	0.8	Q	Q	0.9	Q	Q	0.9	35.9
Secondary Heating Fuel and Equipment (more than one may apply)								
No	66.2	66.0	64.2	68.0	65.2	66.9	66.6	2.8
Yes	33.8	34.0	35.8	32.0	34.8	33.1	33.4	5.4
Natural Gas	4.8	8.3	4.4	2.9	4.2	7.6	4.4	16.1
Fireplace	2.5	7.9	3.6	1.8	1.7	2.2	1.0	24.5
Room Heater	1.4	Q	Q	Q	1.5	3.8	1.9	24.0
Central Warm-Air Furnace	0.4	Q	Q	Q	Q	Q	Q	40.3
Other Equipment	0.8	Q	Q	Q	Q	1.7	1.3	28.9
Electricity	15.5	9.3	14.4	13.3	17.2	16.4	18.5	8.3
Portable Heater	12.1	6.2	11.2	9.0	14.1	13.9	15.1	9.3
Built-in Electric Units	2.6	2.2	2.9	2.2	2.4	2.3	3.2	21.3
Other Equipment	0.7	Q	Q	1.9	Q	Q	0.5	35.3
Fuel Oil	0.5	Q	Q	Q	Q	Q	1.0	27.7
Wood	12.8	15.2	19.2	15.1	12.6	9.6	7.8	9.5
Fireplace	9.6	12.3	16.3	11.1	9.6	7.4	4.5	11.4
Heating Stove	3.3	2.9	2.8	4.4	3.2	2.4	3.6	18.2
Other Equipment	0.3	Q	Q	Q	Q	Q	Q	45.1
LPG	1.3	Q	1.5	1.7	1.2	Q	1.0	25.8
Kerosene	2.5	Q	2.1	2.5	1.9	2.0	3.9	20.2
Other	0.3	Q	Q	Q	Q	Q	Q	44.3
Estimated Heated Floorspace Category (square feet)²								
Fewer than 600	7.8	5.2	6.3	7.8	8.7	6.2	9.8	12.5
600 to 999	21.2	11.6	16.8	26.6	22.2	21.1	22.9	7.8
1,000 to 1,599	29.9	31.3	30.2	24.9	31.5	37.6	28.5	6.1
1,600 to 1,999	15.1	15.0	17.2	14.8	14.9	15.9	13.7	7.9
2,000 to 2,399	7.8	9.5	8.0	9.6	7.2	6.5	6.6	11.2
2,400 to 2,999	5.3	9.3	9.6	5.5	3.7	2.4	3.0	15.5
3,000 or More	4.1	13.0	4.4	3.8	2.2	2.0	2.9	19.6
No Estimate Provided	9.0	5.2	7.6	6.9	9.4	8.4	12.7	12.7

¹ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC3-3b. Space Heating by Household Income,
Percent of U.S. Households, 1997**

Space Heating Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.4	1.0	0.9	1.0	1.3	0.9	
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Main Heating Fuel and Equipment								
Natural Gas	52.7	46.8	50.6	53.4	56.9	49.0	49.2	4.0
Central Warm-Air Furnace	37.8	21.6	32.5	41.6	46.8	23.6	27.2	5.6
For One Housing Unit	36.5	19.9	30.7	40.4	46.1	22.5	25.4	5.8
For Two or More Units	1.3	1.8	1.9	1.2	0.7	Q	1.8	21.8
Steam or Hot-Water System	7.2	9.1	6.6	6.4	7.7	8.7	8.2	12.1
For One Housing Unit	5.0	4.9	4.1	4.2	6.8	4.5	4.9	15.0
For Two or More Units	2.2	4.3	2.5	2.2	0.9	4.2	3.3	20.4
Floor, Wall, or								
Pipeless Furnace	4.0	7.0	5.6	3.7	1.3	7.5	6.7	14.8
Room Heater/Other	3.7	9.0	5.8	1.7	1.2	9.1	7.2	15.9
Electricity	29.2	33.2	31.1	27.2	27.4	30.1	30.6	5.9
Built-In Electric Units	7.3	12.2	9.0	6.5	4.2	9.4	9.5	12.1
Central Warm-Air Furnace	10.6	11.3	11.9	10.3	9.1	11.9	11.0	11.2
For One Housing Unit	10.1	10.6	11.2	9.7	9.0	11.4	10.3	11.4
For Two or More Units	0.5	Q	0.7	Q	Q	Q	0.7	37.1
Heat Pump	9.5	6.4	7.9	9.2	13.1	5.3	7.1	14.1
Other	1.7	3.3	2.3	1.3	0.9	3.5	2.9	17.8
Fuel Oil	9.3	9.5	8.2	9.8	9.9	9.1	9.6	10.6
Steam or Hot-Water System	5.1	6.4	4.4	4.8	5.7	6.1	5.6	12.2
For One Housing Unit	3.3	1.4	2.4	3.3	5.2	1.6	2.1	18.1
For Two or More Units	1.8	5.0	2.0	1.4	Q	4.5	3.5	13.0
Central Warm-Air Furnace	3.7	2.6	3.1	4.6	4.0	2.1	3.1	17.4
Other	0.4	Q	0.7	Q	Q	Q	0.9	26.0
Wood	2.2	2.1	2.6	2.0	1.8	2.1	2.4	18.2
Heating Stove	1.5	2.1	1.8	1.2	1.2	1.9	1.8	20.4
Other	0.7	Q	0.8	0.8	0.6	Q	0.6	33.1
LPG	4.5	4.5	5.0	5.6	2.8	4.8	4.8	14.9
Central Warm-Air Furnace	3.1	2.0	3.4	4.0	2.3	2.1	2.7	20.0
Room Heater	0.9	1.5	1.1	1.0	Q	1.7	1.3	24.3
Other	0.5	1.0	0.5	0.7	Q	1.0	0.8	26.1
Kerosene	1.0	1.7	1.2	1.1	Q	2.0	1.3	23.6
Other	0.4	Q	Q	0.4	Q	Q	0.5	48.2
None	0.8	1.2	1.2	0.4	Q	2.2	1.6	26.0
Amount of Heat Provided by Main Heating Equipment								
All or Almost All	91.9	94.1	92.0	92.4	90.3	91.4	91.9	0.8
About Three-Fourths	4.2	1.7	3.3	4.2	6.3	2.3	3.0	14.2
Closer to One-Half	3.2	3.1	3.6	3.0	3.0	4.2	3.5	14.0
No Main Equipment	0.8	1.2	1.2	0.4	Q	2.2	1.6	26.0

See footnotes at end of table.

**Table HC3-3b. Space Heating by Household Income,
Percent of U.S. Households, 1997 (Continued)**

Space Heating Characteristics	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.4	1.0	0.9	1.0	1.3	0.9	
Age of Main Heating Equipment								
Less than 2 Years	8.6	6.8	7.7	9.7	9.0	7.4	7.3	9.1
2 to 4 Years	12.0	11.0	10.3	11.8	14.3	10.9	10.8	7.6
5 to 9 Years	19.6	14.6	16.2	19.8	25.3	16.0	15.8	6.4
10 to 19 Years	24.7	22.6	23.5	24.7	26.9	20.1	22.2	5.4
20 Years or More	25.6	26.8	30.4	25.7	20.0	25.8	28.8	4.9
Don't Know	8.8	17.0	10.7	7.8	4.1	17.6	13.5	9.0
No Main Equipment	0.8	1.2	1.2	0.4	Q	2.2	1.6	26.0
Secondary Heating Fuel and Equipment (more than one may apply)								
No	66.2	80.7	73.4	65.3	52.9	77.6	75.5	1.9
Yes	33.8	19.3	26.6	34.7	47.1	22.4	24.5	4.5
Natural Gas	4.8	4.2	3.2	4.5	7.2	3.3	3.8	14.8
Fireplace	2.5	Q	0.9	2.4	4.6	Q	1.0	23.3
Room Heater	1.4	1.5	1.4	1.3	1.6	1.1	1.6	25.0
Central Warm-Air Furnace	0.4	Q	Q	Q	0.9	Q	Q	31.1
Other Equipment	0.8	1.0	0.8	0.6	Q	1.1	1.1	25.7
Electricity	15.5	10.7	13.2	15.7	19.9	12.2	11.8	7.1
Portable Heater	12.1	9.8	10.9	12.1	14.5	11.0	10.1	7.4
Built-in Electric Units	2.6	Q	1.7	2.6	4.6	Q	1.3	18.0
Other Equipment	0.7	Q	0.6	1.0	Q	Q	0.6	30.2
Fuel Oil	0.5	Q	0.5	Q	0.9	Q	0.4	29.6
Wood	12.8	3.1	7.6	13.2	22.3	5.2	6.5	9.9
Fireplace	9.6	2.3	5.6	9.4	17.3	3.7	4.6	11.9
Heating Stove	3.3	Q	2.0	3.9	5.2	1.5	2.0	16.8
Other Equipment	0.3	Q	Q	Q	Q	Q	Q	37.9
LPG	1.3	Q	1.0	1.4	1.7	Q	1.0	25.4
Kerosene	2.5	1.6	3.2	2.7	2.1	2.6	2.9	15.4
Other	0.3	Q	Q	Q	0.7	Q	Q	32.1
Estimated Heated Floorspace Category (square feet)²								
Fewer than 600	7.8	21.4	10.8	5.2	0.9	18.5	14.2	10.4
600 to 999	21.2	32.6	29.4	19.2	9.3	31.2	29.8	6.0
1,000 to 1,599	29.9	20.9	33.4	34.7	25.2	25.1	29.0	5.0
1,600 to 1,999	15.1	4.6	10.9	17.3	21.9	6.2	8.1	7.6
2,000 to 2,399	7.8	1.7	4.0	8.0	14.3	1.9	3.2	12.7
2,400 to 2,999	5.3	Q	1.1	4.5	12.3	1.3	1.4	17.2
3,000 or More	4.1	Q	1.1	2.9	10.0	Q	1.1	19.4
No Estimate Provided	9.0	16.6	9.3	8.1	6.0	14.9	13.0	10.1

¹ Below 150 percent of poverty line or 60 percent of median State income.

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC3-4b. Space Heating by Type of Housing Unit,
Percent of U.S. Households, 1997**

Space Heating Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.6	1.7	1.2	1.4	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Main Heating Fuel and Equipment						
Natural Gas	52.7	57.6	61.3	34.6	33.3	6.0
Central Warm-Air Furnace	37.8	43.9	27.7	15.7	31.1	8.3
For One Housing Unit	36.5	43.1	23.4	12.5	30.9	9.0
For Two or More Units	1.3	0.8	4.3	3.3	Q	21.3
Steam or Hot-Water System	7.2	5.8	19.9	12.0	Q	12.3
For One Housing Unit	5.0	5.2	11.0	3.4	Q	17.1
For Two or More Units	2.2	0.5	8.8	8.6	Q	18.5
Floor, Wall, or Pipeless Furnace	4.0	4.0	6.7	4.6	Q	16.3
Room Heater/Other	3.7	4.0	7.0	2.3	Q	18.5
Electricity	29.2	24.0	28.9	49.9	37.3	7.3
Built-In Electric Units	7.3	5.3	12.2	17.8	Q	13.6
Central Warm-Air Furnace	10.6	7.2	10.7	20.3	24.7	12.9
For One Housing Unit	10.1	7.2	10.0	17.5	24.7	13.2
For Two or More Units	0.5	Q	Q	2.7	Q	35.0
Heat Pump	9.5	10.2	3.8	9.5	7.3	17.8
Other	1.7	1.3	2.2	2.3	4.5	20.7
Fuel Oil	9.3	9.6	8.1	11.3	Q	13.5
Steam or Hot-Water System	5.1	4.6	5.7	9.6	Q	14.6
For One Housing Unit	3.3	4.3	Q	Q	Q	17.8
For Two or More Units	1.8	0.2	4.0	9.1	Q	20.7
Central Warm-Air Furnace	3.7	4.6	2.4	1.3	Q	22.6
Other	0.4	0.5	Q	Q	Q	35.8
Wood	2.2	2.6	Q	Q	4.3	20.5
Heating Stove	1.5	1.7	Q	Q	3.7	21.1
Other	0.7	0.8	Q	Q	Q	36.5
LPG	4.5	4.8	Q	Q	15.7	16.6
Central Warm-Air Furnace	3.1	3.2	Q	Q	12.3	19.5
Room Heater	0.9	1.0	Q	Q	Q	29.0
Other	0.5	0.6	Q	Q	Q	33.9
Kerosene	1.0	0.7	Q	Q	5.9	25.7
Other	0.4	0.2	Q	1.4	Q	49.1
None	0.8	0.5	Q	2.0	Q	37.2
Amount of Heat Provided by Main Heating Equipment						
All or Almost All	91.9	90.8	96.9	95.1	91.9	0.9
About Three-Fourths	4.2	5.1	Q	Q	2.7	16.8
Closer to One-Half	3.2	3.5	Q	1.7	3.8	19.4
No Main Equipment	0.8	0.5	Q	2.0	Q	37.2

See footnotes at end of table.

**Table HC3-4b. Space Heating by Type of Housing Unit,
Percent of U.S. Households, 1997 (Continued)**

Space Heating Characteristics	Type of Housing Unit					RSE Row Factors
	Total	Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.6	1.7	1.2	1.4	
Age of Main Heating Equipment						
Less than 2 Years	8.6	9.2	4.9	3.9	16.0	11.6
2 to 4 Years	12.0	13.0	8.0	7.0	16.2	9.1
5 to 9 Years	19.6	21.0	15.1	14.2	20.2	8.5
10 to 19 Years	24.7	26.3	17.5	19.0	25.8	6.9
20 Years or More	25.6	25.3	27.9	30.3	15.5	6.9
Don't Know	8.8	4.6	26.7	23.7	4.7	11.7
No Main Equipment	0.8	0.5	Q	2.0	Q	37.2
Secondary Heating Fuel and Equipment (more than one may apply)						
No	66.2	59.4	82.9	90.3	71.4	2.2
Yes	33.8	40.6	17.1	9.7	28.6	6.9
Natural Gas	4.8	6.3	Q	Q	Q	15.5
Fireplace	2.5	3.4	Q	Q	Q	23.1
Room Heater	1.4	1.9	Q	Q	Q	26.7
Central Warm-Air Furnace	0.4	0.5	Q	Q	Q	37.5
Other Equipment	0.8	0.8	Q	Q	Q	33.1
Electricity	15.5	17.3	12.5	7.5	17.3	9.2
Portable Heater	12.1	13.2	9.4	6.9	14.8	9.7
Built-in Electric Units	2.6	3.3	Q	Q	Q	20.5
Other Equipment	0.7	0.7	Q	Q	Q	35.9
Fuel Oil	0.5	0.6	Q	Q	Q	30.8
Wood	12.8	16.6	Q	1.3	6.3	12.5
Fireplace	9.6	12.4	Q	1.3	5.2	14.0
Heating Stove	3.3	4.5	Q	Q	Q	17.3
Other Equipment	0.3	0.5	Q	Q	Q	42.0
LPG	1.3	1.6	Q	Q	2.3	25.2
Kerosene	2.5	3.1	Q	Q	3.6	16.9
Other	0.3	0.4	Q	Q	Q	40.7
Estimated Heated Floorspace Category (square feet)¹						
Fewer than 600	7.8	2.6	23.6	23.4	14.4	10.2
600 to 999	21.2	12.9	40.4	45.4	40.3	5.5
1,000 to 1,599	29.9	34.0	15.3	16.5	29.1	7.2
1,600 to 1,999	15.1	19.5	Q	2.2	6.6	9.7
2,000 to 2,399	7.8	10.4	Q	Q	Q	9.3
2,400 to 2,999	5.3	7.1	Q	Q	Q	12.7
3,000 or More	4.1	5.5	Q	Q	Q	18.3
No Estimate Provided	9.0	8.0	16.5	11.7	7.0	12.3

¹ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

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. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

Table HC3-5b. Space Heating by Type of Owner-Occupied Housing Unit, Percent of U.S. Households, 1997

Space Heating Characteristics	Total Owner-Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.5	2.4	1.9	1.1	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Main Heating Fuel and Equipment						
Natural Gas	55.2	57.0	81.9	29.7	35.1	8.0
Central Warm-Air Furnace	43.5	45.2	38.4	Q	32.5	8.9
For One Housing Unit	42.8	44.5	34.6	Q	32.2	9.2
For Two or More Units	0.7	0.7	Q	Q	Q	50.9
Steam or Hot-Water System	6.0	6.0	33.4	Q	Q	14.8
For One Housing Unit	5.2	5.6	Q	Q	Q	20.6
For Two or More Units	0.8	0.4	Q	Q	Q	45.1
Floor, Wall, or Pipeless Furnace	2.7	2.8	Q	Q	Q	34.9
Room Heater/Other	3.0	3.2	Q	Q	Q	35.9
Electricity	25.3	23.9	Q	49.7	38.5	10.9
Built-In Electric Units	4.9	4.9	Q	22.4	Q	23.2
Central Warm-Air Furnace	8.8	7.3	Q	Q	25.8	18.2
For One Housing Unit	8.7	7.3	Q	Q	25.8	18.2
For Two or More Units	Q	Q	Q	Q	Q	NF
Heat Pump	10.3	10.6	Q	Q	7.7	23.2
Other	1.3	1.1	Q	Q	4.5	36.1
Fuel Oil	9.6	10.3	Q	15.7	Q	18.0
Steam or Hot-Water System	4.7	4.9	Q	15.7	Q	19.2
For One Housing Unit	4.3	4.7	Q	Q	Q	21.9
For Two or More Units	0.4	Q	Q	14.4	Q	24.2
Central Warm-Air Furnace	4.6	5.0	Q	Q	Q	28.4
Other	0.4	0.4	Q	Q	Q	64.9
Wood	2.7	2.6	Q	Q	4.5	29.3
Heating Stove	1.8	1.7	Q	Q	4.1	29.2
Other	0.8	0.9	Q	Q	Q	52.8
LPG	5.4	4.8	Q	Q	15.0	22.4
Central Warm-Air Furnace	3.7	3.2	Q	Q	11.3	26.2
Room Heater	1.1	1.0	Q	Q	Q	40.6
Other	0.6	0.5	Q	Q	Q	47.7
Kerosene	1.0	0.6	Q	Q	5.3	39.7
Other	0.2	0.3	Q	Q	Q	76.4
None	0.5	0.5	Q	Q	Q	41.7
Amount of Heat Provided by Main Heating Equipment						
All or Almost All	90.8	90.6	97.1	95.1	91.7	1.7
About Three-Fourths	4.9	5.2	Q	Q	3.1	22.0
Closer to One-Half	3.7	3.7	Q	Q	4.3	23.1
No Main Equipment	0.5	0.5	Q	Q	Q	41.7

See footnotes at end of table.

Table HC3-5b. Space Heating by Type of Owner-Occupied Housing Unit, Percent of U.S. Households, 1997 (Continued)

Space Heating Characteristics	Total Owner-Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.5	2.4	1.9	1.1	
Age of Main Heating Equipment						
Less than 2 Years	9.8	9.2	Q	Q	16.8	12.7
2 to 4 Years	13.9	13.7	Q	Q	17.4	10.7
5 to 9 Years	21.8	22.0	20.8	Q	20.9	10.4
10 to 19 Years	27.1	27.4	23.6	14.8	26.9	11.0
20 Years or More	24.4	24.9	31.4	33.0	14.6	11.0
Don't Know	2.6	2.3	Q	Q	Q	30.6
No Main Equipment	0.5	0.5	Q	Q	Q	41.7
Secondary Heating Fuel and Equipment (more than one may apply)						
No	58.8	56.8	79.6	94.4	70.5	3.5
Yes	41.2	43.2	20.4	Q	29.5	8.7
Natural Gas	6.4	7.0	Q	Q	Q	19.2
Fireplace	3.7	4.1	Q	Q	Q	29.5
Room Heater	1.8	2.0	Q	Q	Q	23.8
Central Warm-Air Furnace	0.6	0.6	Q	Q	Q	49.2
Other Equipment	0.7	0.7	Q	Q	Q	50.9
Electricity	17.5	17.9	Q	Q	17.2	12.0
Portable Heater	13.5	13.5	Q	Q	15.4	12.6
Built-in Electric Units	3.3	3.6	Q	Q	Q	26.9
Other Equipment	0.8	0.8	Q	Q	Q	54.3
Fuel Oil	0.7	0.7	Q	Q	Q	45.7
Wood	16.7	18.0	Q	Q	7.5	12.2
Fireplace	12.3	13.2	Q	Q	6.2	14.3
Heating Stove	4.6	5.0	Q	Q	Q	23.2
Other Equipment	0.5	0.5	Q	Q	Q	53.8
LPG	1.8	1.8	Q	Q	Q	33.2
Kerosene	3.0	3.1	Q	Q	3.3	23.6
Other	0.4	0.4	Q	Q	Q	52.1
Estimated Heated Floorspace Category (square feet)¹						
Fewer than 600	2.4	1.2	Q	Q	12.7	27.6
600 to 999	12.5	9.5	33.1	36.2	38.3	11.7
1,000 to 1,599	33.5	33.8	25.4	30.1	32.2	9.1
1,600 to 1,999	19.8	21.3	Q	Q	7.3	11.0
2,000 to 2,399	10.7	11.7	Q	Q	Q	12.5
2,400 to 2,999	7.5	8.3	Q	Q	Q	16.2
3,000 or More	6.0	6.6	Q	Q	Q	23.0
No Estimate Provided	7.6	7.5	Q	Q	6.5	18.5

¹ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

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. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC3-6b. Space Heating by Type of Rented Housing Unit,
Percent of U.S. Households, 1997**

Space Heating Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.6	0.7	1.2	0.9	2.2	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Main Heating Fuel and Equipment						
Natural Gas	47.5	60.2	57.2	35.0	24.8	8.5
Central Warm-Air Furnace	26.0	37.6	25.6	16.2	24.2	13.5
For One Housing Unit	23.4	36.3	21.2	12.9	24.2	14.7
For Two or More Units	2.6	1.3	4.3	3.3	Q	32.2
Steam or Hot-Water System	9.6	4.9	17.2	11.9	Q	19.8
For One Housing Unit	4.5	3.5	10.7	3.6	Q	32.2
For Two or More Units	5.1	1.4	6.5	8.3	Q	23.2
Floor, Wall, or Pipeless Furnace	6.8	9.9	7.6	4.4	Q	19.6
Room Heater/Other	5.1	7.8	6.9	2.4	Q	22.0
Electricity	37.2	24.8	32.4	49.9	31.4	9.5
Built-In Electric Units	12.4	6.9	13.6	17.4	Q	18.2
Central Warm-Air Furnace	14.2	7.2	12.1	20.7	19.0	17.7
For One Housing Unit	12.8	7.0	11.4	17.8	19.0	18.2
For Two or More Units	1.4	Q	Q	2.8	Q	39.2
Heat Pump	8.0	8.0	Q	9.5	Q	22.6
Other	2.5	2.6	2.6	2.3	Q	29.2
Fuel Oil	8.6	6.2	8.3	11.0	Q	18.8
Steam or Hot-Water System	6.1	2.8	6.5	9.1	Q	21.4
For One Housing Unit	1.4	2.5	Q	Q	Q	34.5
For Two or More Units	4.7	Q	4.6	8.7	Q	18.9
Central Warm-Air Furnace	2.0	2.5	Q	1.4	Q	34.5
Other	0.6	Q	Q	Q	Q	45.9
Wood	1.1	2.4	Q	Q	Q	33.1
Heating Stove	0.8	1.8	Q	Q	Q	37.1
Other	Q	Q	Q	Q	Q	NF
LPG	2.6	4.5	Q	Q	19.1	22.2
Central Warm-Air Furnace	1.8	2.9	Q	Q	17.0	22.5
Room Heater	Q	Q	Q	Q	Q	NF
Other	0.4	Q	Q	Q	Q	67.7
Kerosene	0.9	1.1	Q	Q	Q	56.6
Other	0.8	Q	Q	1.5	Q	62.3
None	1.2	Q	Q	1.8	Q	55.3
Amount of Heat Provided by Main Heating Equipment						
All or Almost All	94.1	92.2	96.9	95.0	93.0	1.5
About Three-Fourths	2.6	4.6	Q	Q	Q	28.1
Closer to One-Half	2.1	2.6	Q	1.7	Q	34.2
No Main Equipment	1.2	Q	Q	1.8	Q	55.3

See footnotes at end of table.

**Table HC3-6b. Space Heating by Type of Rented Housing Unit,
Percent of U.S. Households, 1997 (Continued)**

Space Heating Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.6	0.7	1.2	0.9	2.2	
Age of Main Heating Equipment						
Less than 2 Years	6.1	9.1	4.9	3.5	Q	22.4
2 to 4 Years	8.0	9.4	7.8	6.7	Q	17.2
5 to 9 Years	15.1	16.4	13.9	14.2	16.6	14.0
10 to 19 Years	19.7	21.3	16.2	19.3	20.4	11.4
20 Years or More	28.2	27.1	27.2	30.1	19.7	10.2
Don't Know	21.7	16.1	29.9	24.4	15.9	12.2
No Main Equipment	1.2	Q	Q	1.8	Q	55.3
Secondary Heating Fuel and Equipment (more than one may apply)						
No	81.7	72.0	83.5	90.0	75.8	2.6
Yes	18.3	28.0	16.5	10.0	24.2	11.5
Natural Gas	1.7	2.8	Q	Q	Q	50.9
Fireplace	Q	Q	Q	Q	Q	NF
Room Heater	Q	Q	Q	Q	Q	NF
Central Warm-Air Furnace	Q	Q	Q	Q	Q	NF
Other Equipment	0.8	1.1	Q	Q	Q	36.2
Electricity	11.2	14.2	12.6	7.7	17.8	14.5
Portable Heater	9.4	11.9	9.2	7.1	Q	15.0
Built-in Electric Units	1.3	2.2	Q	Q	Q	40.0
Other Equipment	0.5	Q	Q	Q	Q	46.0
Fuel Oil	Q	Q	Q	Q	Q	NF
Wood	4.6	10.0	Q	1.4	Q	23.2
Fireplace	3.9	8.2	Q	1.4	Q	25.7
Heating Stove	0.8	2.0	Q	Q	Q	33.2
Other Equipment	Q	Q	Q	Q	Q	NF
LPG	Q	Q	Q	Q	Q	NF
Kerosene	1.5	3.0	Q	Q	Q	34.5
Other	Q	Q	Q	Q	Q	NF
Estimated Heated Floorspace Category (square feet)¹						
Fewer than 600	18.8	9.5	26.3	24.1	22.7	10.9
600 to 999	39.2	29.4	41.9	46.1	49.9	6.1
1,000 to 1,599	22.5	34.7	13.3	15.5	14.0	12.3
1,600 to 1,999	5.2	10.8	Q	1.9	Q	18.8
2,000 to 2,399	1.7	4.0	Q	Q	Q	28.9
2,400 to 2,999	0.7	1.3	Q	Q	Q	47.9
3,000 or More	Q	Q	Q	Q	Q	NF
No Estimate Provided	12.0	10.3	16.7	12.1	Q	16.2

¹ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

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. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC3-7b. Space Heating by Four Most Populated States,
Percent of U.S. Households, 1997**

Space Heating Characteristics	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.5	1.2	0.9	1.3	1.5	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Main Heating Fuel and Equipment						
Natural Gas	52.7	49.8	68.2	54.1	11.0	8.6
Central Warm-Air Furnace	37.8	26.2	41.3	32.8	9.3	12.2
For One Housing Unit	36.5	24.2	40.8	32.1	9.3	12.2
For Two or More Units	1.3	Q	Q	Q	Q	22.9
Steam or Hot-Water System	7.2	21.3	Q	Q	Q	7.9
For One Housing Unit	5.0	12.8	Q	Q	Q	14.3
For Two or More Units	2.2	8.5	Q	Q	Q	22.7
Floor, Wall, or						
Pipeless Furnace	4.0	Q	19.6	8.2	Q	17.5
Room Heater/Other	3.7	1.2	6.0	12.3	1.1	16.9
Electricity	29.2	5.5	25.0	41.3	79.5	10.7
Built-In Electric Units	7.3	Q	7.0	3.6	8.2	24.4
Central Warm-Air Furnace	10.6	Q	12.1	26.2	29.6	17.0
For One Housing Unit	10.1	Q	11.6	24.0	28.8	16.7
For Two or More Units	0.5	Q	Q	Q	Q	56.9
Heat Pump	9.5	Q	2.6	8.8	40.0	18.4
Other	1.7	Q	3.4	2.7	Q	24.0
Fuel Oil	9.3	39.6	Q	Q	Q	15.2
Steam or Hot-Water System	5.1	31.2	Q	Q	Q	16.1
For One Housing Unit	3.3	12.2	Q	Q	Q	23.0
For Two or More Units	1.8	19.0	Q	Q	Q	11.8
Central Warm-Air Furnace	3.7	7.2	Q	Q	Q	22.2
Other	0.4	1.2	Q	Q	Q	18.6
Wood	2.2	2.7	2.8	Q	Q	24.3
Heating Stove	1.5	Q	2.0	Q	Q	21.3
Other	0.7	1.0	0.8	Q	Q	26.0
LPG	4.5	Q	1.9	3.8	2.2	22.9
Central Warm-Air Furnace	3.1	Q	1.4	1.9	Q	29.3
Room Heater	0.9	Q	Q	Q	Q	33.9
Other	0.5	Q	0.5	Q	Q	34.4
Kerosene	1.0	1.6	0.7	Q	Q	34.2
Other	0.4	Q	Q	Q	Q	63.4
None	0.8	0.3	Q	Q	Q	22.0
Amount of Heat Provided by Main Heating Equipment						
All or Almost All	91.9	94.4	87.9	91.0	93.4	1.7
About Three-Fourths	4.2	4.1	4.7	6.0	Q	22.9
Closer to One-Half	3.2	1.2	6.4	Q	Q	20.8
No Main Equipment	0.8	0.3	Q	Q	Q	22.0

See footnotes at end of table.

**Table HC3-7b. Space Heating by Four Most Populated States,
Percent of U.S. Households, 1997 (Continued)**

Space Heating Characteristics	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.5	1.2	0.9	1.3	1.5	
Age of Main Heating Equipment						
Less than 2 Years	8.6	5.3	5.9	8.2	12.5	14.3
2 to 4 Years	12.0	10.3	8.0	19.1	5.9	11.5
5 to 9 Years	19.6	16.5	15.9	21.7	30.5	8.1
10 to 19 Years	24.7	15.8	24.6	27.5	26.8	7.6
20 Years or More	25.6	34.5	39.9	14.5	11.0	7.9
Don't Know	8.8	17.4	4.7	8.5	9.5	16.5
No Main Equipment	0.8	0.3	Q	Q	Q	22.0
Secondary Heating Fuel and Equipment (more than one may apply)						
No	66.2	73.4	70.1	65.1	77.6	4.3
Yes	33.8	26.6	29.9	34.9	22.4	10.3
Natural Gas	4.8	2.2	3.2	7.6	Q	22.3
Fireplace	2.5	1.6	Q	Q	Q	13.0
Room Heater	1.4	Q	Q	3.8	Q	21.6
Central Warm-Air Furnace	0.4	Q	Q	Q	Q	44.8
Other Equipment	0.8	Q	Q	1.6	Q	30.6
Electricity	15.5	13.7	12.9	19.1	9.1	13.4
Portable Heater	12.1	10.5	10.9	14.3	8.4	10.6
Built-in Electric Units	2.6	Q	2.3	Q	Q	19.7
Other Equipment	0.7	Q	Q	Q	Q	38.5
Fuel Oil	0.5	2.3	Q	Q	Q	33.9
Wood	12.8	10.0	15.6	12.0	11.1	15.4
Fireplace	9.6	6.0	13.7	10.8	10.8	15.3
Heating Stove	3.3	4.1	2.3	Q	Q	27.3
Other Equipment	0.3	Q	Q	Q	Q	50.1
LPG	1.3	Q	Q	Q	1.0	24.7
Kerosene	2.5	Q	Q	Q	Q	19.2
Other	0.3	Q	Q	Q	Q	49.3
Estimated Heated Floorspace Category (square feet)¹						
Fewer than 600	7.8	12.9	12.4	6.7	4.3	14.4
600 to 999	21.2	23.7	23.4	20.3	13.8	9.8
1,000 to 1,599	29.9	24.7	26.5	28.8	42.8	7.0
1,600 to 1,999	15.1	10.0	13.4	15.4	15.1	11.9
2,000 to 2,399	7.8	6.4	8.4	9.4	7.0	16.0
2,400 to 2,999	5.3	4.1	5.1	5.9	5.3	19.3
3,000 or More	4.1	3.1	2.2	Q	5.4	28.7
No Estimate Provided	9.0	15.0	8.6	6.2	6.4	18.2

¹ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC3-8b. Space Heating by Urban/Rural Location,
Percent of U.S. Households, 1997**

Space Heating Characteristics	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
		0.6	0.9	1.3	1.2	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Main Heating Fuel and Equipment						
Natural Gas	52.7	61.5	52.1	59.4	20.0	4.8
Central Warm-Air Furnace	37.8	40.6	36.7	52.0	14.8	5.8
For One Housing Unit	36.5	38.9	35.1	50.6	14.8	5.8
For Two or More Units	1.3	1.7	1.5	1.3	Q	18.7
Steam or Hot-Water System	7.2	9.8	8.5	3.8	1.9	12.5
For One Housing Unit	5.0	6.2	6.5	3.3	1.5	14.6
For Two or More Units	2.2	3.6	2.0	Q	Q	19.0
Floor, Wall, or						
Pipeless Furnace	4.0	6.1	2.9	2.5	Q	17.1
Room Heater/Other	3.7	5.0	4.0	1.2	2.3	19.4
Electricity	29.2	28.9	27.3	29.5	31.7	6.0
Built-In Electric Units	7.3	6.7	10.1	5.9	7.6	13.0
Central Warm-Air Furnace	10.6	12.0	9.1	9.2	9.5	13.1
For One Housing Unit	10.1	11.2	8.9	8.9	9.3	13.4
For Two or More Units	0.5	0.7	Q	0.4	Q	35.7
Heat Pump	9.5	8.2	6.4	13.2	12.8	12.5
Other	1.7	2.0	1.6	1.1	1.8	21.3
Fuel Oil	9.3	6.4	12.5	8.2	15.6	11.5
Steam or Hot-Water System	5.1	4.3	6.6	5.3	5.9	12.9
For One Housing Unit	3.3	1.3	5.3	4.9	5.1	15.0
For Two or More Units	1.8	2.9	1.3	Q	0.7	17.9
Central Warm-Air Furnace	3.7	1.7	5.3	2.9	8.9	17.0
Other	0.4	0.4	0.6	Q	0.8	32.3
Wood	2.2	0.6	1.8	0.6	8.9	20.2
Heating Stove	1.5	0.5	1.4	Q	6.0	18.4
Other	0.7	0.1	0.4	Q	2.9	30.7
LPG	4.5	0.8	4.9	1.1	19.0	18.6
Central Warm-Air Furnace	3.1	0.3	3.2	0.6	14.0	24.3
Room Heater	0.9	Q	0.8	Q	3.9	24.1
Other	0.5	0.2	0.9	Q	1.1	27.1
Kerosene	1.0	0.3	1.2	Q	3.4	25.8
Other	0.4	0.5	Q	Q	1.0	42.9
None	0.8	1.0	Q	0.9	Q	24.1
Amount of Heat Provided by Main Heating Equipment						
All or Almost All	91.9	93.7	91.9	94.0	84.3	1.1
About Three-Fourths	4.2	3.0	4.4	2.6	9.0	14.0
Closer to One-Half	3.2	2.3	3.5	2.4	6.3	14.2
No Main Equipment	0.8	1.0	Q	0.9	Q	24.1

See footnotes at end of table.

**Table HC3-8b. Space Heating by Urban/Rural Location,
Percent of U.S. Households, 1997 (Continued)**

Space Heating Characteristics	Urban/Rural Location ¹					RSE Row Factors
	Total	City	Town	Suburbs	Rural	
	0.6	0.9	1.3	1.2	1.1	
Age of Main Heating Equipment						
Less than 2 Years	8.6	8.1	8.0	7.5	11.9	8.8
2 to 4 Years	12.0	9.8	11.6	13.3	17.1	7.1
5 to 9 Years	19.6	17.8	19.3	23.0	21.2	6.2
10 to 19 Years	24.7	21.9	26.4	29.5	25.5	5.1
20 Years or More	25.6	29.0	27.1	19.8	20.5	5.2
Don't Know	8.8	12.3	7.3	6.0	3.5	12.3
No Main Equipment	0.8	1.0	Q	0.9	Q	24.1
Secondary Heating Fuel and Equipment (more than one may apply)						
No	66.2	76.0	64.4	57.9	49.1	2.7
Yes	33.8	24.0	35.6	42.1	50.9	4.6
Natural Gas	4.8	5.0	4.3	6.2	3.4	14.5
Fireplace	2.5	2.3	2.2	4.1	1.6	22.2
Room Heater	1.4	1.6	2.0	0.9	0.9	23.8
Central Warm-Air Furnace	0.4	0.3	Q	0.6	Q	37.0
Other Equipment	0.8	1.1	Q	0.9	Q	25.7
Electricity	15.5	12.3	16.9	19.0	19.2	7.4
Portable Heater	12.1	10.1	13.2	15.8	12.8	8.1
Built-in Electric Units	2.6	1.8	3.0	2.9	4.4	17.6
Other Equipment	0.7	0.6	0.5	Q	2.0	30.0
Fuel Oil	0.5	0.1	0.5	Q	1.5	31.7
Wood	12.8	6.7	13.8	19.4	21.9	7.9
Fireplace	9.6	5.9	10.1	16.1	12.5	9.1
Heating Stove	3.3	0.9	4.0	3.3	9.8	16.0
Other Equipment	0.3	0.3	Q	Q	0.8	42.7
LPG	1.3	0.3	1.0	0.5	5.3	28.7
Kerosene	2.5	1.7	2.2	2.6	5.2	16.1
Other	0.3	Q	Q	0.3	0.5	35.3
Estimated Heated Floorspace Category (square feet)²						
Fewer than 600	7.8	10.4	7.9	3.3	5.1	11.2
600 to 999	21.2	25.7	22.8	12.9	15.6	6.7
1,000 to 1,599	29.9	30.1	28.6	30.7	29.8	4.9
1,600 to 1,999	15.1	12.5	16.1	18.2	18.0	6.7
2,000 to 2,399	7.8	6.0	6.5	12.3	9.3	9.1
2,400 to 2,999	5.3	3.2	5.2	9.4	6.8	12.7
3,000 or More	4.1	2.6	3.9	6.9	5.3	15.3
No Estimate Provided	9.0	9.6	9.0	6.4	10.1	11.8

¹ Based on the household respondent's description rather than the Federal Government definition.

² Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC3-9b. Space Heating by Northeast Census Region,
Percent of U.S. Households, 1997**

Space Heating Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.1	1.3	1.5	
Total	100.0	100.0	100.0	100.0	0.0
Main Heating Fuel and Equipment					
Natural Gas	52.7	46.4	53.4	27.4	9.5
Central Warm-Air Furnace	37.8	25.9	32.2	8.7	13.1
For One Housing Unit	36.5	24.5	30.7	7.7	13.2
For Two or More Units	1.3	1.3	1.5	Q	28.8
Steam or Hot-Water System	7.2	18.4	19.3	15.9	11.2
For One Housing Unit	5.0	13.3	13.3	13.3	13.8
For Two or More Units	2.2	5.1	5.9	Q	17.5
Floor, Wall, or Pipeless Furnace	4.0	Q	Q	Q	19.4
Room Heater/Other	3.7	1.5	Q	Q	29.7
Electricity	29.2	11.9	11.7	12.2	12.3
Built-In Electric Units	7.3	6.8	7.1	6.1	18.5
Central Warm-Air Furnace	10.6	1.9	1.4	Q	25.4
For One Housing Unit	10.1	1.4	Q	Q	23.7
For Two or More Units	0.5	Q	Q	Q	55.6
Heat Pump	9.5	1.9	2.4	Q	31.1
Other	1.7	1.3	Q	Q	28.3
Fuel Oil	9.3	35.9	30.2	51.3	10.1
Steam or Hot-Water System	5.1	24.2	22.4	29.3	10.3
For One Housing Unit	3.3	15.1	11.8	24.0	11.3
For Two or More Units	1.8	9.1	10.5	5.3	13.7
Central Warm-Air Furnace	3.7	10.5	7.1	19.9	16.6
Other	0.4	1.1	Q	2.1	31.0
Wood	2.2	1.9	1.7	2.6	22.8
Heating Stove	1.5	1.4	1.2	2.2	24.7
Other	0.7	Q	Q	Q	43.1
LPG	4.5	1.1	Q	Q	29.3
Central Warm-Air Furnace	3.1	0.9	Q	Q	31.5
Room Heater	0.9	Q	Q	Q	33.2
Other	0.5	Q	Q	Q	37.0
Kerosene	1.0	2.1	1.5	Q	31.6
Other	0.4	0.6	Q	Q	51.5
None	0.8	Q	Q	Q	38.2
Amount of Heat Provided by Main Heating Equipment					
All or Almost All	91.9	93.3	93.6	92.4	1.0
About Three-Fourths	4.2	3.9	3.8	4.2	17.4
Closer to One-Half	3.2	2.7	2.5	3.5	19.1
No Main Equipment	0.8	Q	Q	Q	38.2

See footnotes at end of table.

**Table HC3-9b. Space Heating by Northeast Census Region,
Percent of U.S. Households, 1997 (Continued)**

Space Heating Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.1	1.3	1.5	
Age of Main Heating Equipment					
Less than 2 Years	8.6	7.0	6.6	8.2	12.0
2 to 4 Years	12.0	10.0	10.3	9.1	9.0
5 to 9 Years	19.6	17.6	17.6	17.9	7.3
10 to 19 Years	24.7	20.3	20.5	19.9	8.0
20 Years or More	25.6	32.1	31.2	34.4	5.2
Don't Know	8.8	12.8	13.7	10.5	12.6
No Main Equipment	0.8	Q	Q	Q	38.2
Secondary Heating Fuel and Equipment (more than one may apply)					
No	66.2	68.9	67.8	72.0	2.4
Yes	33.8	31.1	32.2	28.0	5.3
Natural Gas	4.8	2.1	2.6	Q	17.4
Fireplace	2.5	Q	Q	Q	27.6
Room Heater	1.4	Q	Q	Q	30.8
Central Warm-Air Furnace	0.4	Q	Q	Q	43.8
Other Equipment	0.8	Q	Q	Q	36.2
Electricity	15.5	14.7	16.2	10.7	11.0
Portable Heater	12.1	10.8	11.8	8.1	9.7
Built-in Electric Units	2.6	3.5	3.9	2.4	26.0
Other Equipment	0.7	Q	Q	Q	37.7
Fuel Oil	0.5	1.9	2.0	1.7	20.1
Wood	12.8	10.9	9.8	14.0	10.9
Fireplace	9.6	5.6	6.3	3.8	15.7
Heating Stove	3.3	5.6	3.6	11.1	16.9
Other Equipment	0.3	Q	Q	Q	49.0
LPG	1.3	0.8	Q	Q	36.6
Kerosene	2.5	2.8	2.8	2.8	18.6
Other	0.3	Q	Q	Q	48.2
Estimated Heated Floorspace Category (square feet)¹					
Fewer than 600	7.8	9.7	10.7	6.8	10.7
600 to 999	21.2	22.4	21.4	25.0	4.9
1,000 to 1,599	29.9	25.8	25.8	26.0	7.0
1,600 to 1,999	15.1	12.2	11.6	13.7	9.7
2,000 to 2,399	7.8	6.9	7.0	6.4	12.5
2,400 to 2,999	5.3	4.9	4.9	5.1	17.5
3,000 or More	4.1	3.4	3.0	4.4	19.3
No Estimate Provided	9.0	14.8	15.6	12.6	11.7

¹ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC3-10b. Space Heating by Midwest Census Region,
Percent of U.S. Households, 1997**

Space Heating Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.6	
Total	100.0	100.0	100.0	100.0	0.0
Main Heating Fuel and Equipment					
Natural Gas	52.7	74.5	78.0	66.4	5.4
Central Warm-Air Furnace	37.8	62.1	63.6	58.4	5.6
For One Housing Unit	36.5	58.9	60.3	55.7	5.6
For Two or More Units	1.3	3.1	3.3	Q	12.3
Steam or Hot-Water System	7.2	10.2	11.8	6.4	14.2
For One Housing Unit	5.0	6.2	7.0	4.3	19.1
For Two or More Units	2.2	4.0	4.8	Q	20.6
Floor, Wall, or					
Pipeless Furnace	4.0	1.0	Q	Q	30.2
Room Heater/Other	3.7	1.3	1.2	Q	26.3
Electricity	29.2	11.1	11.0	11.6	15.6
Built-In Electric Units	7.3	5.3	6.4	2.8	17.4
Central Warm-Air Furnace	10.6	4.3	2.8	8.0	26.3
For One Housing Unit	10.1	4.1	2.5	8.0	26.7
For Two or More Units	0.5	Q	Q	Q	55.3
Heat Pump	9.5	1.2	1.4	Q	26.7
Other	1.7	Q	Q	Q	23.2
Fuel Oil	9.3	4.3	3.7	5.7	17.1
Steam or Hot-Water System	5.1	Q	Q	Q	18.5
For One Housing Unit	3.3	Q	Q	Q	20.8
For Two or More Units	1.8	Q	Q	Q	19.9
Central Warm-Air Furnace	3.7	3.5	2.9	4.8	19.7
Other	0.4	Q	Q	Q	37.7
Wood	2.2	1.8	Q	Q	31.6
Heating Stove	1.5	0.9	Q	Q	28.8
Other	0.7	Q	Q	Q	42.8
LPG	4.5	7.4	5.5	11.9	21.8
Central Warm-Air Furnace	3.1	6.4	4.9	9.7	24.1
Room Heater	0.9	Q	Q	Q	33.0
Other	0.5	0.7	Q	1.6	25.5
Kerosene	1.0	Q	Q	Q	34.2
Other	0.4	Q	Q	Q	61.6
None	0.8	Q	Q	Q	38.0
Amount of Heat Provided by Main Heating Equipment					
All or Almost All	91.9	95.2	95.6	94.4	1.0
About Three-Fourths	4.2	3.3	3.1	3.7	20.4
Closer to One-Half	3.2	1.5	1.3	Q	14.8
No Main Equipment	0.8	Q	Q	Q	38.0

See footnotes at end of table.

**Table HC3-10b. Space Heating by Midwest Census Region,
Percent of U.S. Households, 1997 (Continued)**

Space Heating Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.6	
Age of Main Heating Equipment					
Less than 2 Years	8.6	7.5	7.8	6.7	8.9
2 to 4 Years	12.0	12.1	11.8	13.0	8.9
5 to 9 Years	19.6	19.5	19.1	20.4	7.7
10 to 19 Years	24.7	22.2	20.8	25.5	6.8
20 Years or More	25.6	27.8	29.3	24.4	5.9
Don't Know	8.8	10.9	11.3	10.0	14.9
No Main Equipment	0.8	Q	Q	Q	38.0
Secondary Heating Fuel and Equipment (more than one may apply)					
No	66.2	68.7	69.0	67.9	3.2
Yes	33.8	31.3	31.0	32.1	6.8
Natural Gas	4.8	6.0	6.5	4.7	17.6
Fireplace	2.5	3.5	4.1	Q	25.4
Room Heater	1.4	1.4	Q	Q	21.9
Central Warm-Air Furnace	0.4	Q	Q	Q	43.6
Other Equipment	0.8	Q	Q	Q	35.9
Electricity	15.5	15.8	15.1	17.5	7.8
Portable Heater	12.1	13.1	12.5	14.5	7.7
Built-in Electric Units	2.6	2.6	2.4	3.0	22.9
Other Equipment	0.7	Q	Q	Q	37.5
Fuel Oil	0.5	Q	Q	Q	34.3
Wood	12.8	9.1	8.9	9.4	11.0
Fireplace	9.6	7.0	7.0	7.0	11.4
Heating Stove	3.3	2.0	1.8	2.7	24.3
Other Equipment	0.3	Q	Q	Q	48.7
LPG	1.3	1.3	Q	2.5	24.8
Kerosene	2.5	1.7	1.9	Q	18.4
Other	0.3	Q	Q	Q	47.9
Estimated Heated Floorspace Category (square feet)¹					
Fewer than 600	7.8	6.9	7.4	5.7	12.7
600 to 999	21.2	21.3	21.4	21.1	8.7
1,000 to 1,599	29.9	28.9	28.7	29.3	6.5
1,600 to 1,999	15.1	17.5	17.1	18.6	6.5
2,000 to 2,399	7.8	7.6	7.1	8.9	9.4
2,400 to 2,999	5.3	5.8	5.8	5.7	14.6
3,000 or More	4.1	4.0	4.2	3.6	18.3
No Estimate Provided	9.0	7.9	8.3	7.1	16.4

¹ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC3-11b. Space Heating by South Census Region,
Percent of U.S. Households, 1997**

Space Heating Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.9	1.2	1.4	1.3	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Main Heating Fuel and Equipment						
Natural Gas	52.7	38.3	28.6	36.2	56.1	7.5
Central Warm-Air Furnace	37.8	26.9	21.9	27.8	35.1	9.1
For One Housing Unit	36.5	26.5	21.5	27.7	34.3	9.2
For Two or More Units	1.3	Q	Q	Q	Q	21.6
Steam or Hot-Water System	7.2	1.4	2.2	Q	Q	20.7
For One Housing Unit	5.0	1.4	2.1	Q	Q	24.3
For Two or More Units	2.2	Q	Q	Q	Q	24.4
Floor, Wall, or Pipeless Furnace	4.0	3.5	1.8	Q	7.4	25.6
Room Heater/Other	3.7	6.4	2.8	5.8	13.2	20.8
Electricity	29.2	48.7	55.4	45.7	38.7	7.2
Built-In Electric Units	7.3	6.0	6.8	8.4	3.1	19.4
Central Warm-Air Furnace	10.6	18.1	14.3	15.7	26.1	14.7
For One Housing Unit	10.1	17.4	14.0	15.5	24.3	14.9
For Two or More Units	0.5	0.7	Q	Q	Q	49.3
Heat Pump	9.5	22.3	32.4	18.2	7.2	13.8
Other	1.7	2.3	1.9	3.4	2.3	20.6
Fuel Oil	9.3	3.1	5.9	Q	Q	26.7
Steam or Hot-Water System	5.1	0.8	1.5	Q	Q	22.7
For One Housing Unit	3.3	0.8	1.5	Q	Q	23.7
For Two or More Units	1.8	Q	Q	Q	Q	19.4
Central Warm-Air Furnace	3.7	2.1	3.9	Q	Q	34.0
Other	0.4	Q	Q	Q	Q	36.6
Wood	2.2	1.9	2.2	2.6	Q	20.7
Heating Stove	1.5	1.3	1.4	2.2	Q	25.5
Other	0.7	0.6	Q	Q	Q	38.9
LPG	4.5	5.7	4.4	13.3	3.6	18.1
Central Warm-Air Furnace	3.1	2.9	2.5	6.3	1.7	22.8
Room Heater	0.9	2.2	Q	6.8	1.5	19.6
Other	0.5	0.6	Q	Q	Q	36.6
Kerosene	1.0	1.2	2.0	Q	Q	20.2
Other	0.4	Q	Q	Q	Q	59.8
None	0.8	0.8	Q	Q	Q	43.0
Amount of Heat Provided by Main Heating Equipment						
All or Almost All	91.9	91.3	91.6	88.8	92.4	1.2
About Three-Fourths	4.2	4.7	4.5	5.8	4.4	17.1
Closer to One-Half	3.2	3.1	2.6	5.2	2.7	17.8
No Main Equipment	0.8	0.8	Q	Q	Q	43.0

See footnotes at end of table.

**Table HC3-11b. Space Heating by South Census Region,
Percent of U.S. Households, 1997 (Continued)**

Space Heating Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.9	1.2	1.4	1.3	
Age of Main Heating Equipment						
Less than 2 Years	8.6	10.7	11.5	10.9	9.3	9.9
2 to 4 Years	12.0	15.3	13.0	20.0	16.6	7.8
5 to 9 Years	19.6	23.5	25.7	22.9	20.1	7.0
10 to 19 Years	24.7	27.4	26.2	24.4	31.3	5.9
20 Years or More	25.6	14.9	14.6	16.1	14.8	6.5
Don't Know	8.8	7.3	7.8	5.6	7.5	16.7
No Main Equipment	0.8	0.8	Q	Q	Q	43.0
Secondary Heating Fuel and Equipment (more than one may apply)						
No	66.2	62.3	63.2	55.3	65.0	2.8
Yes	33.8	37.7	36.8	44.7	35.0	4.7
Natural Gas	4.8	6.4	4.6	7.0	9.1	17.5
Fireplace	2.5	3.0	2.4	3.5	3.8	27.3
Room Heater	1.4	2.5	Q	3.3	3.5	18.5
Central Warm-Air Furnace	0.4	Q	Q	Q	Q	42.3
Other Equipment	0.8	0.8	Q	Q	2.0	22.5
Electricity	15.5	16.4	15.0	18.2	18.0	9.5
Portable Heater	12.1	13.0	12.2	14.7	13.6	10.5
Built-in Electric Units	2.6	1.9	1.2	Q	3.6	23.7
Other Equipment	0.7	1.3	1.2	1.8	Q	26.1
Fuel Oil	0.5	Q	Q	Q	Q	33.3
Wood	12.8	14.1	15.5	14.6	11.2	8.8
Fireplace	9.6	11.7	12.9	10.4	10.3	9.3
Heating Stove	3.3	2.4	2.6	4.2	Q	20.0
Other Equipment	0.3	0.7	Q	Q	Q	39.3
LPG	1.3	2.1	2.2	3.8	Q	23.8
Kerosene	2.5	4.1	5.1	6.3	Q	16.0
Other	0.3	Q	Q	Q	Q	46.5
Estimated Heated Floorspace Category (square feet)¹						
Fewer than 600	7.8	5.7	5.3	7.1	5.7	13.4
600 to 999	21.2	19.0	17.5	22.4	19.8	6.6
1,000 to 1,599	29.9	32.8	34.6	30.5	31.0	6.7
1,600 to 1,999	15.1	15.8	15.7	15.4	16.3	8.8
2,000 to 2,399	7.8	8.3	7.6	7.8	9.8	10.6
2,400 to 2,999	5.3	5.0	5.1	4.8	5.1	14.5
3,000 or More	4.1	5.1	4.5	4.9	6.3	21.2
No Estimate Provided	9.0	8.2	9.7	7.2	6.0	17.0

¹ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC3-12b. Space Heating by West Census Region,
Percent of U.S. Households, 1997**

Space Heating Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.1	
Total	100.0	100.0	100.0	100.0	0.0
Main Heating Fuel and Equipment					
Natural Gas	52.7	58.1	64.6	55.5	3.6
Central Warm-Air Furnace	37.8	39.7	51.2	35.2	5.9
For One Housing Unit	36.5	39.0	49.5	34.8	6.0
For Two or More Units	1.3	0.8	Q	Q	24.3
Steam or Hot-Water System	7.2	3.2	7.8	1.3	20.9
For One Housing Unit	5.0	1.9	3.8	1.2	22.7
For Two or More Units	2.2	1.3	Q	Q	33.3
Floor, Wall, or Pipeless Furnace	4.0	11.3	3.6	14.4	10.8
Room Heater/Other	3.7	3.8	2.0	4.5	17.9
Electricity	29.2	32.6	26.8	34.9	7.0
Built-In Electric Units	7.3	12.3	6.0	14.7	15.8
Central Warm-Air Furnace	10.6	12.8	10.9	13.6	13.4
For One Housing Unit	10.1	12.5	10.5	13.3	13.4
For Two or More Units	0.5	Q	Q	Q	50.8
Heat Pump	9.5	4.7	7.2	3.7	12.5
Other	1.7	2.8	2.8	2.8	19.8
Fuel Oil	9.3	1.1	Q	Q	23.6
Steam or Hot-Water System	5.1	Q	Q	Q	17.0
For One Housing Unit	3.3	Q	Q	Q	19.1
For Two or More Units	1.8	Q	Q	Q	18.3
Central Warm-Air Furnace	3.7	0.6	Q	Q	32.8
Other	0.4	Q	Q	Q	34.7
Wood	2.2	3.1	2.8	3.3	18.4
Heating Stove	1.5	2.5	2.4	2.6	20.9
Other	0.7	Q	Q	Q	39.4
LPG	4.5	2.5	4.4	1.7	24.9
Central Warm-Air Furnace	3.1	1.9	3.6	1.2	28.2
Room Heater	0.9	Q	Q	Q	30.3
Other	0.5	Q	Q	Q	33.8
Kerosene	1.0	Q	Q	Q	31.5
Other	0.4	Q	Q	Q	56.6
None	0.8	2.1	Q	2.9	18.5
Amount of Heat Provided by Main Heating Equipment					
All or Almost All	91.9	87.9	92.8	86.0	1.2
About Three-Fourths	4.2	4.5	3.3	4.9	15.8
Closer to One-Half	3.2	5.5	3.7	6.2	13.4
No Main Equipment	0.8	2.1	Q	2.9	18.5

See footnotes at end of table.

**Table HC3-12b. Space Heating by West Census Region,
Percent of U.S. Households, 1997 (Continued)**

Space Heating Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.1	
Age of Main Heating Equipment					
Less than 2 Years	8.6	7.6	11.8	5.9	13.2
2 to 4 Years	12.0	8.1	9.0	7.7	10.1
5 to 9 Years	19.6	15.1	12.6	16.1	7.5
10 to 19 Years	24.7	26.9	31.1	25.2	6.1
20 Years or More	25.6	34.9	28.1	37.6	5.7
Don't Know	8.8	5.4	7.4	4.6	17.0
No Main Equipment	0.8	2.1	Q	2.9	18.5
Secondary Heating Fuel and Equipment (more than one may apply)					
No	66.2	67.6	64.9	68.7	3.3
Yes	33.8	32.4	35.1	31.3	6.6
Natural Gas	4.8	3.6	5.6	2.8	18.6
Fireplace	2.5	2.1	3.3	1.6	27.7
Room Heater	1.4	Q	Q	Q	28.1
Central Warm-Air Furnace	0.4	Q	Q	Q	40.0
Other Equipment	0.8	1.1	Q	Q	38.7
Electricity	15.5	14.2	15.0	13.8	9.7
Portable Heater	12.1	10.7	10.7	10.8	9.9
Built-in Electric Units	2.6	3.1	3.6	2.9	22.9
Other Equipment	0.7	0.7	Q	Q	38.1
Fuel Oil	0.5	Q	Q	Q	31.5
Wood	12.8	16.4	15.8	16.6	8.8
Fireplace	9.6	12.6	10.4	13.5	9.3
Heating Stove	3.3	4.2	5.6	3.7	19.8
Other Equipment	0.3	Q	Q	Q	44.8
LPG	1.3	Q	Q	Q	26.8
Kerosene	2.5	Q	Q	Q	17.2
Other	0.3	Q	Q	Q	44.0
Estimated Heated Floorspace Category (square feet)¹					
Fewer than 600	7.8	10.3	8.2	11.1	11.2
600 to 999	21.2	23.4	22.8	23.7	8.2
1,000 to 1,599	29.9	30.0	33.9	28.5	5.3
1,600 to 1,999	15.1	13.7	12.7	14.1	7.2
2,000 to 2,399	7.8	7.9	7.7	8.0	11.9
2,400 to 2,999	5.3	5.3	5.6	5.2	10.6
3,000 or More	4.1	3.0	4.4	2.4	20.2
No Estimate Provided	9.0	6.3	4.6	7.0	14.3

¹ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

1997 Housing Characteristics Tables

Usage Indicators Tables

(Million U.S. Households; 48 pages, 134 kb)

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These data are from the 1997 Residential Energy Consumption Survey (RECS) which provides information on the use of energy in residential housing units in the United States. The RECS is a national statistical survey that collects data for occupied primary housing units. RECS was first conducted in 1978; the sixth and most recent survey was conducted in 1997 RECS. The data were collected from a sample of 5,900 housing units statistically selected to represent the 101.5 million units in the United States. The 1997 data are available for the four Census regions, the nine Census divisions, and for the four most populous States--California, Florida, New York, and Texas.

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

**Table HC6-1a. Usage Indicators by Climate Zone,
Million U.S. Households, 1997**

Usage Indicators	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.3	1.9	1.1	1.1	1.2	1.0	
Total	101.5	9.3	28.0	22.5	19.5	22.2	7.7
Weekday Home Activities							
Home Used for Business							
Yes	7.4	1.0	1.9	1.8	1.5	1.2	14.3
No	94.1	8.2	26.2	20.8	18.0	21.0	7.8
Energy-Intensive Activity							
Yes	2.4	0.2	0.9	0.4	0.5	0.5	22.0
No	99.1	9.1	27.2	22.1	19.0	21.7	7.8
Someone Home All Day							
Yes	51.3	4.4	13.8	11.7	9.9	11.6	7.4
No	50.1	4.9	14.3	10.8	9.7	10.5	7.5
Heating							
Thermostat Available During Heating Season							
Yes	86.0	8.2	25.5	18.7	15.5	18.0	8.0
No	14.7	1.0	2.5	3.8	3.9	3.5	11.3
Do Not Heat Home	0.8	Q	Q	Q	Q	0.6	33.3
Set-Back or Clock Thermostat in Home							
Yes	44.9	3.1	12.0	10.5	8.5	10.8	9.7
No	56.6	6.2	16.0	12.0	11.0	11.4	9.8
Use of Set-Back/Clock Thermostat for Heating							
Programming Features Used	11.7	1.3	3.2	2.9	1.8	2.4	12.2
Only Manual Controls Used	33.2	1.8	8.8	7.6	6.7	8.4	11.5
Winter Temperature Settings							
Lower When No One Home							
Yes	45.5	4.5	12.0	9.6	10.2	9.3	7.9
No	56.0	4.8	16.1	12.9	9.3	12.9	7.3
Lower During Sleeping Hours							
Yes	47.4	4.7	11.6	10.1	10.8	10.2	7.8
No	54.0	4.6	16.5	12.4	8.7	11.9	7.7
Daytime Winter Temperature When Someone is at Home							
Heat is Turned On	93.9	9.0	26.9	20.8	17.8	19.3	8.1
63 Degrees or Less	3.8	0.4	1.0	1.0	0.9	0.5	19.1
64 to 66 Degrees	8.3	0.7	2.4	1.8	2.0	1.2	11.8
67 to 69 Degrees	23.4	2.9	7.9	5.3	4.1	3.1	9.2
70 Degrees	25.6	2.8	7.1	5.9	4.9	4.9	9.3
71 to 73 Degrees	14.7	1.3	5.0	3.0	2.3	3.3	10.7
74 Degrees or More	18.1	0.9	3.5	3.9	3.5	6.3	10.1
Heat Turned Off	2.1	Q	Q	Q	1.1	0.8	22.6
Unknown/No Answer	5.5	Q	1.0	1.6	0.7	2.0	18.4

See footnotes at end of table.

**Table HC6-1a. Usage Indicators by Climate Zone,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.3	1.9	1.1	1.1	1.2	1.0	
Daytime Winter Temperature							
When No One is at Home							
Heat is Turned On	84.9	9.0	26.2	19.9	14.5	15.3	8.3
63 Degrees or Less	19.7	2.2	5.7	4.4	4.3	3.1	10.8
64 to 66 Degrees	16.6	1.9	5.4	3.9	2.9	2.5	9.4
67 to 69 Degrees	18.0	2.2	6.0	4.7	2.7	2.4	10.4
70 Degrees	14.8	1.5	4.2	3.6	2.4	3.1	10.5
71 to 73 Degrees	7.6	0.7	3.0	1.5	0.9	1.4	14.1
74 Degrees or More	8.2	0.4	2.0	1.9	1.3	2.7	13.5
Heat Turned Off	10.4	Q	0.6	0.9	4.1	4.7	12.2
Unknown/No Answer	6.2	Q	1.2	1.6	0.9	2.2	16.2
Winter Temperature							
During Sleeping Hours							
Heat is Turned On	89.1	9.0	26.7	20.2	15.4	17.7	8.2
63 Degrees or Less	16.4	2.1	4.4	3.8	3.8	2.3	10.6
64 to 66 Degrees	16.9	2.1	5.1	4.0	2.6	3.0	9.2
67 to 69 Degrees	19.6	2.1	6.6	4.7	3.3	2.9	10.9
70 Degrees	17.6	1.7	5.2	4.1	2.9	3.8	10.3
71 to 73 Degrees	8.4	0.7	3.0	1.5	1.2	2.0	13.1
74 Degrees or More	10.2	0.4	2.4	2.1	1.6	3.7	14.0
Heat Turned Off	7.3	Q	Q	0.7	3.5	2.6	13.5
Unknown/No Answer	5.1	Q	1.0	1.6	0.5	1.8	19.1
Air-Conditioning							
Central Air-Conditioning Use							
Use a Central System	47.8	2.9	10.6	10.4	8.5	15.4	9.9
All Summer	24.6	0.4	3.3	5.1	4.8	11.1	12.6
Quite a Bit	10.4	1.0	2.8	2.7	1.7	2.3	13.3
Only a Few Times	12.4	1.4	4.4	2.6	2.0	2.0	15.5
Not at All	0.3	Q	Q	Q	Q	Q	56.1
No Central System	53.7	6.4	17.5	12.1	11.0	6.8	8.0
Use of Set-Back/Clock							
Thermostat for Cooling							
Programming Features Used	5.0	0.3	1.0	1.4	0.4	1.8	17.0
Only Manual Controls Used	13.5	0.3	2.1	2.8	2.3	5.9	15.7
Used Only for Heating	0.4	Q	Q	0.2	Q	Q	47.8
Window Air-Conditioning Use							
Use Window Units	26.5	2.4	8.2	7.5	3.8	4.6	10.9
All Summer	5.7	0.2	1.2	1.4	1.1	1.8	16.7
Quite a Bit	6.6	0.6	1.9	2.0	1.0	1.1	14.7
Only a Few Times	13.5	1.5	4.7	3.9	1.7	1.6	12.1
Not at All	0.7	Q	0.4	Q	Q	Q	30.8
No Window Units	75.0	6.8	19.8	15.0	15.7	17.6	6.8
Hot Water							
Number of Showers/Baths							
Taken Each Week							
Fewer than 10	28.3	3.2	8.0	6.7	5.0	5.4	8.8
10 to 20	46.7	4.1	13.6	10.0	9.2	9.8	7.2
More than 20	26.4	1.9	6.5	5.9	5.2	6.9	8.5
Not Applicable	0.2	Q	Q	Q	Q	Q	98.2

See footnotes at end of table.

**Table HC6-1a. Usage Indicators by Climate Zone,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.3	1.9	1.1	1.1	1.2	1.0	
Hot Water (continued)							
Dishwasher Use							
Each Week							
Use a Dishwasher	50.9	4.4	14.5	11.3	9.1	11.6	7.6
Less Than 4 Times	28.7	2.3	7.5	6.6	5.4	6.9	8.3
4 to 6 Times	12.9	1.4	4.1	2.7	2.1	2.7	11.1
At Least Once Each Day	9.3	0.7	3.0	2.0	1.6	2.1	12.2
No Dishwasher	50.6	4.9	13.6	11.2	10.4	10.5	8.6
Loads of Laundry							
Washed Each Week							
Use a Clothes Washer	78.5	7.9	22.0	17.4	14.2	17.1	7.5
1 Load or Less	5.3	0.5	1.3	1.6	0.8	1.0	15.7
2 to 9 Loads	29.8	2.7	7.7	6.5	6.1	6.7	8.3
10 to 15 Loads	10.2	1.3	3.1	2.1	1.6	2.0	12.9
More than 15 Loads	3.3	0.4	1.1	0.7	0.5	0.7	18.8
No Washing Machine	22.9	1.3	6.1	5.1	5.3	5.1	9.5
Clothes Dryer Usage							
Use a Clothes Dryer	72.2	7.6	20.6	15.8	12.9	15.3	7.8
Every Time Clothes are Washed	57.1	5.0	16.2	12.2	10.6	13.0	8.5
Some, but not All, Loads	13.0	2.3	3.8	3.1	1.9	1.9	12.4
Used Infrequently	2.2	0.4	0.6	0.5	0.4	0.4	19.8
No Dryer	29.3	1.6	7.4	6.7	6.6	6.9	8.3
Cooking							
Number of Hot Meals							
Cooked in the Home							
3 or More Times a Day	7.0	0.4	1.8	1.6	1.4	1.9	12.6
2 Times a Day	25.7	2.7	6.9	5.4	5.3	5.4	9.8
Once a Day	42.2	4.1	12.7	9.6	7.0	8.9	8.1
A Few Times Each Week	20.4	1.7	5.0	4.4	4.7	4.5	10.2
About Once a Week	3.1	0.2	1.0	0.8	0.4	0.7	16.6
Less Than Once a Week	3.0	0.2	0.8	0.7	0.7	0.7	21.2
Conventional Oven Use							
More Than Once a Day	8.3	0.7	2.0	1.7	1.9	1.9	13.9
Once a Day	20.5	1.8	5.6	4.3	4.0	4.9	10.7
Between Once a Day and Once a Week	34.9	3.9	10.0	7.4	6.5	7.0	8.0
Once a Week	15.1	1.1	4.2	3.7	2.5	3.6	9.7
Less Than Once a Week	21.5	1.7	5.9	5.1	4.3	4.6	8.2
Amount of Food Cooked in Microwave Oven							
Use a Microwave Oven	84.2	8.4	23.5	18.8	15.9	17.6	8.2
Most or All	7.3	0.7	2.0	1.2	1.8	1.6	14.9
About Half	18.4	2.0	4.9	4.0	3.8	3.7	10.4
Some or Very Little	22.3	2.2	6.8	5.1	3.8	4.3	10.2
Only for Defrosting, Reheating, or Snacks	36.2	3.5	9.7	8.5	6.4	8.0	9.2
No Microwave Oven	17.3	0.9	4.5	3.7	3.6	4.6	10.5

See footnotes at end of table.

**Table HC6-1a. Usage Indicators by Climate Zone,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.3	1.9	1.1	1.1	1.2	1.0	
Lights							
Outdoor Lights on All Night							
Used	26.3	1.6	7.1	6.3	4.0	7.3	10.4
Not Used	75.2	7.6	20.9	16.2	15.5	14.9	6.6
Gas Fireplace Usage During Winter Months							
Use a Gas Fireplace	2.7	0.3	0.9	0.3	0.5	0.7	26.6
Most Days	1.1	0.2	0.3	0.2	Q	0.3	29.4
Almost Once a Week	0.7	Q	0.3	Q	Q	Q	36.4
Less Than 4 Times a Month	0.8	Q	Q	Q	Q	Q	83.9
Personal Computer Usage	35.6	3.7	10.5	7.6	6.8	7.0	8.1
Hours PC Turned On Each Week							
Less Than 2 Hours	8.2	0.8	2.5	2.2	1.4	1.3	12.4
2 to 15 Hours	17.4	1.9	4.9	3.3	3.5	3.8	9.8
16 to 40 Hours	6.7	0.7	2.3	1.4	1.2	1.1	13.1
On All The Time	3.3	0.4	0.8	0.7	0.7	0.8	17.3
Use of PCs Turned on 16 Hours a Week or More							
Personal Use Only	4.8	0.5	1.6	0.9	0.7	1.0	15.8
Business Use Only	2.1	0.2	0.7	0.5	0.5	0.2	21.0
Both Personal and Business	3.1	0.3	0.8	0.7	0.7	0.7	20.0
Business Use of PCs Turned on 16 Hours a Week or More							
Use to Telecommute	2.1	0.2	0.6	0.4	0.6	0.3	19.1
Other Business Use	3.1	0.4	0.9	0.7	0.6	0.6	20.8
Battery Operated Appliances/Tools							
Use Battery Operated Appliances/Tools	44.4	4.8	12.7	9.8	8.0	9.1	7.7
How Maintained When Not in Use							
Plugged in All The Time	12.5	1.3	3.9	2.7	2.0	2.6	11.3
Recharged As Needed	27.0	3.0	7.4	6.3	4.5	5.8	8.7
Both Ways are Used	4.9	0.5	1.4	0.8	1.5	0.8	14.7
Don't Use Any	57.1	4.5	15.3	12.7	11.5	13.1	7.2

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

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.
 Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.
 • See "Glossary" for definition of terms used in this report. • All temperatures listed are in degrees Fahrenheit.
 Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 1997 Residential Energy Consumption Survey.

**Table HC6-2a. Usage Indicators by Year of Construction,
Million U.S. Households, 1997**

Usage Indicators	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.4	1.7	1.3	1.0	1.1	1.1	0.9	
Total	101.5	9.7	17.3	19.6	14.4	12.5	27.9	4.1
Weekday Home Activities								
Home Used for Business								
Yes	7.4	0.9	1.4	1.3	1.0	0.6	2.1	13.5
No	94.1	8.8	15.9	18.3	13.4	11.9	25.8	4.2
Energy-Intensive Activity								
Yes	2.4	0.2	0.3	0.5	0.3	0.4	0.7	21.4
No	99.1	9.5	17.0	19.1	14.1	12.2	27.2	4.1
Someone Home All Day								
Yes	51.3	4.7	7.9	9.4	7.4	7.3	14.6	5.1
No	50.1	5.0	9.4	10.1	7.0	5.3	13.3	5.0
Heating								
Thermostat Available During Heating Season								
Yes	86.0	9.0	15.9	17.0	12.4	10.4	21.2	4.6
No	14.7	0.6	1.3	2.4	1.9	2.1	6.4	10.6
Do Not Heat Home	0.8	Q	Q	0.2	Q	Q	0.2	38.6
Set-Back or Clock Thermostat in Home								
Yes	44.9	5.5	9.7	8.6	6.6	4.7	9.8	7.0
No	56.6	4.2	7.6	10.9	7.9	7.9	18.1	6.0
Use of Set-Back/Clock Thermostat for Heating								
Programming Features Used	11.7	1.9	2.8	1.8	1.4	1.2	2.6	10.9
Only Manual Controls Used	33.2	3.6	6.9	6.8	5.2	3.5	7.2	8.4
Winter Temperature Settings								
Lower When No One Home								
Yes	45.5	4.5	7.9	9.0	6.7	5.6	11.8	5.2
No	56.0	5.2	9.4	10.6	7.8	7.0	16.1	5.1
Lower During Sleeping Hours								
Yes	47.4	4.6	8.5	9.3	6.9	6.4	11.8	5.1
No	54.0	5.1	8.8	10.3	7.5	6.2	16.1	5.2
Daytime Winter Temperature When Someone is at Home								
Heat is Turned On	93.9	9.3	16.3	18.0	13.3	11.4	25.4	4.3
63 Degrees or Less	3.8	0.4	0.5	0.6	0.6	0.4	1.2	17.8
64 to 66 Degrees	8.3	0.8	1.3	1.8	0.8	1.0	2.5	11.9
67 to 69 Degrees	23.4	2.4	3.8	4.7	3.1	2.9	6.3	7.5
70 Degrees	25.6	2.3	4.4	4.8	3.6	3.1	7.5	6.7
71 to 73 Degrees	14.7	1.6	2.4	2.6	2.3	1.9	3.9	8.5
74 Degrees or More	18.1	1.7	4.0	3.4	2.9	2.1	3.9	8.7
Heat Turned Off	2.1	Q	0.4	0.6	0.3	0.3	0.3	26.4
Unknown/No Answer	5.5	0.2	0.5	1.0	0.8	0.8	2.2	17.9

See footnotes at end of table.

**Table HC6-2a. Usage Indicators by Year of Construction,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.4	1.7	1.3	1.0	1.1	1.1	0.9	
Daytime Winter Temperature								
When No One is at Home								
Heat is Turned On	84.9	8.7	14.7	15.9	11.8	10.1	23.7	4.5
63 Degrees or Less	19.7	1.9	3.0	3.8	3.0	2.2	5.7	7.8
64 to 66 Degrees	16.6	1.3	3.1	3.4	1.9	1.7	5.0	8.4
67 to 69 Degrees	18.0	2.3	3.1	3.3	2.3	2.3	4.7	8.6
70 Degrees	14.8	1.5	2.5	2.5	2.1	1.7	4.4	9.1
71 to 73 Degrees	7.6	0.8	1.2	1.3	1.0	1.3	2.0	12.4
74 Degrees or More	8.2	0.9	1.8	1.5	1.4	0.8	1.8	12.6
Heat Turned Off	10.4	0.7	2.0	2.4	1.7	1.7	1.8	11.0
Unknown/No Answer	6.2	0.3	0.6	1.2	0.9	0.7	2.4	16.3
Winter Temperature								
During Sleeping Hours								
Heat is Turned On	89.1	8.9	15.6	16.9	12.6	10.7	24.4	4.4
63 Degrees or Less	16.4	1.4	2.8	3.1	2.4	2.1	4.7	8.5
64 to 66 Degrees	16.9	1.6	2.9	3.7	2.0	2.1	4.5	7.9
67 to 69 Degrees	19.6	2.2	3.3	3.7	2.6	2.4	5.5	7.9
70 Degrees	17.6	1.7	3.1	3.2	2.6	2.0	5.2	8.4
71 to 73 Degrees	8.4	0.9	1.3	1.5	1.3	1.1	2.2	11.2
74 Degrees or More	10.2	1.1	2.3	1.7	1.8	1.0	2.3	12.6
Heat Turned Off	7.3	0.6	1.2	1.8	1.2	1.1	1.4	12.5
Unknown/No Answer	5.1	0.3	0.5	0.9	0.6	0.7	2.1	18.4
Air-Conditioning								
Central Air-Conditioning Use								
Use a Central System	47.8	7.5	12.9	10.8	6.6	4.6	5.2	6.2
All Summer	24.6	4.2	7.1	5.6	3.5	2.1	2.1	8.3
Quite a Bit	10.4	1.8	2.7	2.4	1.3	0.9	1.4	11.7
Only a Few Times	12.4	1.6	3.1	2.8	1.7	1.5	1.6	11.4
Not at All	0.3	Q	Q	Q	Q	Q	Q	46.8
No Central System	53.7	2.2	4.4	8.7	7.8	7.9	22.7	5.6
Use of Set-Back/Clock Thermostat for Cooling								
Programming Features Used	5.0	1.1	1.8	0.8	0.6	0.4	0.3	16.5
Only Manual Controls Used	13.5	2.2	4.0	3.0	2.0	1.1	1.3	12.5
Used Only for Heating	0.4	Q	Q	Q	Q	Q	Q	52.7
Window Air-Conditioning Use								
Use Window Units	26.5	0.8	2.0	4.1	3.7	4.5	11.4	8.4
All Summer	5.7	0.3	0.3	1.1	0.8	1.0	2.1	14.8
Quite a Bit	6.6	0.2	0.4	1.0	1.0	1.2	2.9	14.1
Only a Few Times	13.5	0.3	1.1	1.9	1.8	2.3	6.1	11.3
Not at All	0.7	Q	Q	Q	Q	Q	0.3	30.7
No Window Units	75.0	8.9	15.3	15.5	10.7	8.0	16.5	4.4
Hot Water								
Number of Showers/Baths Taken Each Week								
Fewer than 10	28.3	1.8	4.4	4.9	4.1	3.9	9.1	6.7
10 to 20	46.7	4.4	8.0	9.3	6.9	5.7	12.5	5.1
More than 20	26.4	3.5	4.9	5.3	3.4	2.9	6.3	6.3
Not Applicable	0.2	Q	Q	Q	Q	Q	Q	81.8

See footnotes at end of table.

**Table HC6-2a. Usage Indicators by Year of Construction,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.4	1.7	1.3	1.0	1.1	1.1	0.9	
Hot Water (continued)								
Dishwasher Use								
Each Week								
Use a Dishwasher	50.9	7.4	12.3	11.1	7.0	4.7	8.4	5.7
Less Than 4 Times	28.7	4.0	7.2	6.3	4.1	2.5	4.7	7.2
4 to 6 Times	12.9	2.2	2.8	2.9	1.7	1.3	2.1	9.6
At Least Once Each Day	9.3	1.3	2.3	1.9	1.2	0.9	1.7	11.7
No Dishwasher	50.6	2.3	5.0	8.5	7.5	7.9	19.5	5.5
Loads of Laundry								
Washed Each Week								
Use a Clothes Washer	78.5	8.7	14.4	14.2	10.1	10.2	21.0	4.3
1 Load or Less	5.3	0.2	0.9	0.7	0.8	0.8	2.0	15.4
2 to 9 Loads	29.8	3.1	5.4	5.4	3.6	4.0	8.3	6.3
10 to 15 Loads	10.2	1.4	1.7	1.8	1.4	1.3	2.6	10.4
More than 15 Loads	3.3	0.4	0.6	0.6	0.4	0.3	1.0	17.7
No Washing Machine	22.9	1.0	3.0	5.3	4.3	2.4	6.9	8.9
Clothes Dryer Usage								
Use a Clothes Dryer	72.2	8.6	13.8	13.5	9.2	9.0	18.2	4.6
Every Time Clothes are Washed	57.1	7.3	11.9	10.5	7.0	7.1	13.3	5.3
Some, but not All, Loads	13.0	1.2	1.8	2.5	1.9	1.5	4.1	9.8
Used Infrequently	2.2	Q	0.2	0.4	0.3	0.4	0.8	20.6
No Dryer	29.3	1.1	3.5	6.1	5.3	3.6	9.7	8.0
Cooking								
Number of Hot Meals								
Cooked in the Home								
3 or More Times a Day	7.0	0.5	1.3	1.2	0.9	0.8	2.4	12.2
2 Times a Day	25.7	2.3	4.4	4.7	3.8	3.2	7.3	7.1
Once a Day	42.2	4.1	7.2	8.3	6.1	5.3	11.2	5.6
A Few Times Each Week	20.4	2.3	3.4	4.2	2.8	2.7	5.0	8.1
About Once a Week	3.1	0.3	0.6	0.5	0.4	0.2	1.1	18.3
Less Than Once a Week	3.0	Q	0.6	0.6	0.3	0.4	0.9	19.4
Conventional Oven Use								
More Than Once a Day	8.3	0.8	1.6	1.5	1.0	1.0	2.4	11.4
Once a Day	20.5	2.4	3.4	4.3	2.7	2.5	5.3	7.7
Between Once a Day and Once a Week	34.9	3.3	6.3	6.8	4.9	4.2	9.3	5.8
Once a Week	15.1	1.4	2.8	2.8	2.3	2.1	3.8	7.9
Less Than Once a Week	21.5	1.7	3.1	4.0	3.4	2.6	6.6	7.9
Amount of Food Cooked in Microwave Oven								
Use a Microwave Oven	84.2	8.6	15.1	16.4	12.0	10.4	21.7	4.3
Most or All	7.3	0.6	1.6	1.6	1.1	0.8	1.7	13.6
About Half	18.4	1.9	3.5	4.0	2.6	2.2	4.2	8.2
Some or Very Little	22.3	2.8	3.6	4.6	3.0	2.8	5.5	7.3
Only for Defrosting, Reheating, or Snacks	36.2	3.4	6.4	6.3	5.3	4.5	10.3	6.5
No Microwave Oven	17.3	1.1	2.2	3.1	2.5	2.2	6.2	10.0

See footnotes at end of table.

**Table HC6-2a. Usage Indicators by Year of Construction,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.4	1.7	1.3	1.0	1.1	1.1	0.9	
Lights								
Outdoor Lights on All Night								
Used	26.3	2.5	5.0	5.0	3.6	3.5	6.7	6.9
Not Used	75.2	7.2	12.3	14.5	10.8	9.0	21.2	4.3
Gas Fireplace Usage During Winter Months								
Use a Gas Fireplace	2.7	0.8	0.7	0.4	0.3	0.3	0.3	24.0
Most Days	1.1	0.3	0.2	0.2	Q	Q	0.2	29.3
Almost Once a Week	0.7	0.3	0.2	Q	Q	Q	Q	30.6
Less Than 4 Times a Month	0.8	Q	Q	Q	Q	Q	Q	70.0
Personal Computer Usage	35.6	4.9	7.3	7.2	4.8	3.5	7.9	6.3
Hours PC Turned On Each Week								
Less Than 2 Hours	8.2	0.9	1.2	1.8	1.3	0.8	2.3	11.6
2 to 15 Hours	17.4	2.6	3.9	3.6	2.1	1.8	3.3	8.4
16 to 40 Hours	6.7	0.9	1.4	1.2	0.9	0.6	1.7	13.0
On All The Time	3.3	0.5	0.8	0.7	0.5	0.3	0.5	18.3
Use of PCs Turned on 16 Hours a Week or More								
Personal Use Only	4.8	0.6	0.9	1.0	0.7	0.4	1.1	14.9
Business Use Only	2.1	0.5	0.4	0.3	0.3	0.2	0.4	24.0
Both Personal and Business	3.1	0.3	0.9	0.7	0.4	0.2	0.7	19.9
Business Use of PCs Turned on 16 Hours a Week or More								
Use to Telecommute	2.1	0.3	0.5	0.4	0.3	Q	0.4	21.4
Other Business Use	3.1	0.5	0.7	0.5	0.4	0.3	0.7	20.6
Battery Operated Appliances/Tools								
Use Battery Operated Appliances/Tools	44.4	5.3	8.0	8.7	6.2	5.3	10.8	5.6
How Maintained When Not in Use								
Plugged in All The Time	12.5	1.5	2.5	2.8	1.7	1.4	2.6	9.8
Recharged As Needed	27.0	3.2	4.6	5.3	3.7	3.4	6.9	7.0
Both Ways are Used	4.9	0.6	0.9	0.7	0.8	0.5	1.4	15.5
Don't Use Any	57.1	4.5	9.3	10.8	8.2	7.2	17.1	4.8

¹ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report. • All temperatures listed are in degrees Fahrenheit.

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

Table HC6-3a. Usage Indicators by Household Income, Million U.S. Households, 1997

Usage Indicators	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.5	1.6	1.0	0.9	1.0	1.4	1.0	
Total	101.5	13.3	29.1	31.1	27.9	14.6	34.1	2.7
Weekday Home Activities								
Home Used for Business								
Yes	7.4	0.4	1.3	2.4	3.3	0.5	1.4	13.3
No	94.1	12.9	27.9	28.7	24.7	14.1	32.7	2.8
Energy-Intensive Activity								
Yes	2.4	Q	0.6	0.7	1.0	0.2	0.6	19.2
No	99.1	13.2	28.6	30.4	26.9	14.5	33.5	2.7
Someone Home All Day								
Yes	51.3	8.8	16.4	14.6	11.6	10.3	21.8	3.4
No	50.1	4.5	12.8	16.6	16.3	4.4	12.3	4.1
Heating								
Thermostat Available During Heating Season								
Yes	86.0	9.1	23.3	27.5	26.2	10.0	25.2	3.3
No	14.7	4.1	5.5	3.5	1.6	4.4	8.4	7.4
Do Not Heat Home	0.8	0.2	0.4	0.1	Q	0.3	0.5	25.9
Set-Back or Clock Thermostat in Home								
Yes	44.9	4.5	11.8	13.5	15.2	5.1	12.8	6.3
No	56.6	8.9	17.3	17.7	12.8	9.6	21.2	4.5
Use of Set-Back/Clock Thermostat for Heating								
Programming Features Used	11.7	0.5	1.8	3.6	5.7	0.6	2.2	10.5
Only Manual Controls Used	33.2	3.9	10.0	9.9	9.4	4.4	10.7	7.5
Winter Temperature Settings								
Lower When No One Home								
Yes	45.5	5.1	12.6	14.9	12.9	5.6	14.0	4.2
No	56.0	8.3	16.5	16.2	15.0	9.1	20.0	3.4
Lower During Sleeping Hours								
Yes	47.4	5.7	13.3	15.0	13.5	6.1	15.0	4.1
No	54.0	7.6	15.9	16.2	14.4	8.6	19.1	3.5
Daytime Winter Temperature When Someone is at Home								
Heat is Turned On	93.9	11.2	26.6	29.1	27.0	12.3	29.6	2.9
63 Degrees or Less	3.8	0.9	0.9	1.0	1.0	0.9	1.5	14.1
64 to 66 Degrees	8.3	0.8	2.2	2.9	2.3	1.0	2.4	9.8
67 to 69 Degrees	23.4	1.2	6.1	7.1	8.9	1.5	5.5	6.4
70 Degrees	25.6	3.4	7.8	7.7	6.8	3.8	8.6	5.4
71 to 73 Degrees	14.7	1.7	3.9	5.1	4.1	1.7	4.3	7.4
74 Degrees or More	18.1	3.3	5.6	5.3	3.9	3.3	7.2	6.0
Heat Turned Off	2.1	0.3	0.8	0.8	0.2	0.4	1.1	21.1
Unknown/No Answer	5.5	1.8	1.7	1.3	0.7	1.9	3.4	13.2

See footnotes at end of table.

Table HC6-3a. Usage Indicators by Household Income, Million U.S. Households, 1997 (Continued)

Usage Indicators	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.5	1.6	1.0	0.9	1.0	1.4	1.0	
Daytime Winter Temperature When No One is at Home								
Heat is Turned On	84.9	9.2	23.6	26.7	25.4	10.1	25.2	3.1
63 Degrees or Less	19.7	2.3	5.6	5.9	5.9	2.6	6.0	6.5
64 to 66 Degrees	16.6	1.4	4.1	5.5	5.5	1.7	4.7	6.3
67 to 69 Degrees	18.0	1.4	4.3	6.0	6.3	1.2	4.0	7.6
70 Degrees	14.8	1.8	5.0	4.3	3.7	2.2	5.2	6.7
71 to 73 Degrees	7.6	0.9	2.0	2.6	2.1	1.0	2.3	10.2
74 Degrees or More	8.2	1.4	2.5	2.4	2.0	1.5	3.0	9.4
Heat Turned Off	10.4	2.2	3.5	3.0	1.7	2.5	5.1	8.8
Unknown/No Answer	6.2	1.9	2.1	1.4	0.8	2.0	3.7	12.5
Winter Temperature During Sleeping Hours								
Heat is Turned On	89.1	9.9	24.9	28.0	26.3	10.9	27.0	3.0
63 Degrees or Less	16.4	2.0	4.7	4.7	5.0	2.2	5.2	7.3
64 to 66 Degrees	16.9	1.5	4.3	5.6	5.4	1.7	4.4	6.3
67 to 69 Degrees	19.6	1.6	4.9	6.0	7.1	1.6	5.2	7.0
70 Degrees	17.6	2.2	5.6	5.6	4.2	2.6	6.0	6.1
71 to 73 Degrees	8.4	0.8	2.3	3.0	2.3	0.8	2.4	9.7
74 Degrees or More	10.2	1.8	3.1	3.1	2.4	2.0	3.9	8.4
Heat Turned Off	7.3	1.7	2.6	1.9	1.0	1.9	3.9	10.5
Unknown/No Answer	5.1	1.7	1.6	1.2	0.6	1.8	3.2	13.7
Air-Conditioning								
Central Air-Conditioning Use								
Use a Central System	47.8	3.7	11.0	15.8	17.3	3.7	10.6	5.4
All Summer	24.6	1.7	6.0	7.8	9.1	1.8	5.4	7.4
Quite a Bit	10.4	0.8	2.0	3.4	4.2	0.8	2.1	10.2
Only a Few Times	12.4	1.2	2.8	4.3	4.0	1.1	3.0	10.4
Not at All	0.3	Q	Q	Q	Q	Q	Q	38.3
No Central System	53.7	9.6	18.1	15.4	10.6	10.9	23.5	3.5
Use of Set-Back/Clock Thermostat for Cooling								
Programming Features Used	5.0	Q	0.7	1.3	2.8	0.2	0.6	17.3
Only Manual Controls Used	13.5	1.1	3.4	4.2	4.8	1.2	3.3	10.8
Used Only for Heating	0.4	Q	Q	Q	0.2	Q	Q	38.1
Window Air-Conditioning Use								
Use Window Units	26.5	4.5	8.7	7.9	5.4	4.7	10.8	5.5
All Summer	5.7	1.2	2.0	1.3	1.2	1.3	2.7	10.6
Quite a Bit	6.6	0.9	1.8	2.5	1.4	1.0	2.2	10.9
Only a Few Times	13.5	2.3	4.7	4.0	2.5	2.4	5.5	7.4
Not at All	0.7	Q	0.2	0.2	0.2	Q	0.3	30.4
No Window Units	75.0	8.8	20.5	23.2	22.5	9.9	23.3	3.2
Hot Water								
Number of Showers/Baths Taken Each Week								
Fewer than 10	28.3	6.9	10.6	7.1	3.8	5.4	12.1	4.8
10 to 20	46.7	4.6	12.6	15.8	13.7	5.6	13.6	4.0
More than 20	26.4	1.8	5.9	8.3	10.4	3.6	8.3	5.2
Not Applicable	0.2	Q	Q	Q	Q	Q	Q	67.0

See footnotes at end of table.

**Table HC6-3a. Usage Indicators by Household Income,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.5	1.6	1.0	0.9	1.0	1.4	1.0	
Hot Water (continued)								
Dishwasher Use Each Week								
Use a Dishwasher	50.9	2.1	10.3	16.7	21.8	2.5	9.1	5.2
Less Than 4 Times	28.7	1.5	6.8	9.9	10.4	1.6	5.4	6.6
4 to 6 Times	12.9	0.4	2.2	3.8	6.5	0.6	2.0	9.5
At Least Once Each Day	9.3	0.2	1.3	2.9	5.0	0.4	1.7	12.1
No Dishwasher	50.6	11.2	18.8	14.5	6.1	12.1	25.0	3.6
Loads of Laundry Washed Each Week								
Use a Clothes Washer	78.5	7.0	20.1	25.4	26.1	8.5	21.6	3.3
1 Load or Less	5.3	1.1	2.0	1.4	0.8	1.0	2.2	11.6
2 to 9 Loads	29.8	3.4	8.9	9.4	8.1	3.2	8.7	5.1
10 to 15 Loads	10.2	0.4	1.9	3.4	4.4	1.1	2.5	8.5
More than 15 Loads	3.3	0.2	0.7	0.9	1.6	0.4	1.0	15.2
No Washing Machine	22.9	6.3	9.0	5.8	1.8	6.2	12.5	6.2
Clothes Dryer Usage								
Use a Clothes Dryer	72.2	4.8	17.8	24.0	25.6	6.1	17.5	3.6
Every Time Clothes are Washed	57.1	3.8	13.4	18.8	21.1	4.7	13.3	4.2
Some, but not All, Loads	13.0	0.8	3.6	4.5	4.0	1.1	3.4	8.5
Used Infrequently	2.2	0.2	0.8	0.7	0.5	0.2	0.7	19.9
No Dryer	29.3	8.5	11.4	7.1	2.3	8.6	16.6	5.2
Cooking								
Number of Hot Meals Cooked in the Home								
3 or More Times a Day	7.0	1.6	2.4	1.8	1.2	2.2	4.0	9.0
2 Times a Day	25.7	3.8	8.2	7.5	6.1	4.7	10.2	5.2
Once a Day	42.2	4.4	10.9	13.7	13.1	4.7	12.2	4.6
A Few Times Each Week	20.4	2.4	5.5	6.2	6.3	2.4	5.6	6.7
About Once a Week	3.1	0.5	1.0	1.0	0.6	0.3	0.9	15.3
Less Than Once a Week	3.0	0.6	0.9	1.0	0.6	0.4	1.0	17.3
Conventional Oven Use								
More Than Once a Day	8.3	1.3	2.4	2.4	2.2	1.6	3.7	9.0
Once a Day	20.5	2.3	5.4	6.4	6.4	2.7	6.6	6.6
Between Once a Day and Once a Week	34.9	3.5	9.0	11.4	11.0	3.8	9.7	4.7
Once a Week	15.1	1.8	4.5	4.9	4.0	2.0	4.8	6.7
Less Than Once a Week	21.5	3.9	7.5	5.9	4.2	4.2	8.6	5.6
Amount of Food Cooked in Microwave Oven								
Use a Microwave Oven	84.2	8.0	23.7	27.0	25.5	9.3	24.5	3.2
Most or All	7.3	0.9	2.4	2.2	1.9	0.8	2.3	11.5
About Half	18.4	1.7	4.6	6.1	6.0	1.8	4.4	7.6
Some or Very Little	22.3	1.7	5.7	7.4	7.4	2.2	6.2	6.3
Only for Defrosting, Reheating, or Snacks	36.2	3.7	10.9	11.3	10.3	4.5	11.5	5.2
No Microwave Oven	17.3	5.3	5.5	4.1	2.4	5.3	9.5	6.8

See footnotes at end of table.

Table HC6-3a. Usage Indicators by Household Income, Million U.S. Households, 1997 (Continued)

Usage Indicators	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.5	1.6	1.0	0.9	1.0	1.4	1.0	
Lights								
Outdoor Lights on All Night								
Used	26.3	2.8	6.7	8.0	8.7	3.4	7.5	6.0
Not Used	75.2	10.5	22.4	23.1	19.2	11.2	26.6	3.0
Gas Fireplace Usage During Winter Months								
Use a Gas Fireplace	2.7	Q	0.3	0.8	1.4	Q	0.4	23.4
Most Days	1.1	Q	Q	0.3	0.6	Q	Q	25.1
Almost Once a Week	0.7	Q	Q	0.2	0.4	Q	Q	29.3
Less Than 4 Times a Month	0.8	Q	Q	Q	0.4	Q	Q	40.4
Personal Computer Usage	35.6	1.3	4.8	11.5	18.0	1.9	5.4	5.6
Hours PC Turned On Each Week								
Less Than 2 Hours	8.2	0.4	1.2	3.1	3.5	0.5	1.4	10.8
2 to 15 Hours	17.4	0.5	2.3	5.7	8.9	0.8	2.3	8.4
16 to 40 Hours	6.7	0.4	0.9	1.8	3.5	0.5	1.4	12.9
On All The Time	3.3	Q	0.3	0.9	2.1	0.1	0.3	18.7
Use of PCs Turned on 16 Hours a Week or More								
Personal Use Only	4.8	0.3	0.7	1.3	2.5	0.4	1.0	15.0
Business Use Only	2.1	Q	Q	0.4	1.4	Q	0.3	21.6
Both Personal and Business	3.1	Q	0.4	1.0	1.7	Q	0.5	19.0
Business Use of PCs Turned on 16 Hours a Week or More								
Use to Telecommute	2.1	Q	0.2	0.6	1.2	Q	0.2	21.6
Other Business Use	3.1	Q	0.3	0.8	1.8	Q	0.5	20.6
Battery Operated Appliances/Tools								
Use Battery Operated Appliances/Tools	44.4	2.0	9.3	15.1	17.9	2.8	8.8	4.8
How Maintained When Not in Use								
Plugged in All The Time	12.5	0.5	2.7	4.2	5.1	0.7	2.3	9.0
Recharged As Needed	27.0	1.2	5.9	9.4	10.5	1.8	5.6	6.4
Both Ways are Used	4.9	0.3	0.8	1.5	2.3	0.3	0.9	13.5
Don't Use Any	57.1	11.3	19.8	16.0	10.0	11.9	25.3	3.2

¹ Below 150 percent of poverty line or 60 percent of median State income.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report. • All temperatures listed are in degrees Fahrenheit.

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

**Table HC6-4a. Usage Indicators by Type of Housing Unit,
Million U.S. Households, 1997**

Usage Indicators	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.5	1.9	1.4	1.9	
Total	101.5	73.7	5.6	15.8	6.3	3.8
Weekday Home Activities						
Home Used for Business						
Yes	7.4	6.1	Q	0.9	0.3	15.2
No	94.1	67.6	5.5	14.9	6.1	3.9
Energy-Intensive Activity						
Yes	2.4	2.0	Q	0.3	Q	22.9
No	99.1	71.8	5.6	15.6	6.2	3.9
Someone Home All Day						
Yes	51.3	38.9	2.8	6.4	3.2	5.2
No	50.1	34.8	2.8	9.4	3.2	4.6
Heating						
Thermostat Available During Heating Season						
Yes	86.0	65.4	4.5	10.7	5.4	4.6
No	14.7	8.0	1.1	4.8	0.8	9.8
Do Not Heat Home	0.8	0.4	Q	0.3	Q	42.0
Set-Back or Clock Thermostat in Home						
Yes	44.9	34.5	2.2	5.2	3.0	8.1
No	56.6	39.2	3.5	10.6	3.3	6.1
Use of Set-Back/Clock Thermostat for Heating						
Programming Features Used	11.7	10.3	0.3	0.5	0.5	12.9
Only Manual Controls Used	33.2	24.2	1.8	4.7	2.5	9.4
Winter Temperature Settings						
Lower When No One Home						
Yes	45.5	34.9	2.2	5.6	2.9	5.3
No	56.0	38.9	3.5	10.2	3.5	4.6
Lower During Sleeping Hours						
Yes	47.4	36.9	2.3	5.3	2.9	5.4
No	54.0	36.9	3.3	10.5	3.4	4.9
Daytime Winter Temperature When Someone is at Home						
Heat is Turned On	93.9	70.3	5.1	12.6	5.9	4.1
63 Degrees or Less	3.8	2.6	0.2	0.8	0.2	16.8
64 to 66 Degrees	8.3	5.9	0.5	1.3	0.6	11.0
67 to 69 Degrees	23.4	19.4	0.9	2.1	1.0	7.7
70 Degrees	25.6	19.1	1.4	3.3	1.8	6.8
71 to 73 Degrees	14.7	11.4	0.8	1.5	1.1	8.8
74 Degrees or More	18.1	11.9	1.3	3.6	1.3	8.1
Heat Turned Off	2.1	1.1	Q	0.8	Q	26.8
Unknown/No Answer	5.5	2.3	0.4	2.4	0.3	16.4

See footnotes at end of table.

**Table HC6-4a. Usage Indicators by Type of Housing Unit,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.5	1.9	1.4	1.9	
Daytime Winter Temperature When No One is at Home						
Heat is Turned On	84.9	64.5	4.4	10.9	5.1	4.4
63 Degrees or Less	19.7	15.0	1.1	2.4	1.3	8.0
64 to 66 Degrees	16.6	12.9	0.8	1.8	1.1	8.2
67 to 69 Degrees	18.0	14.8	0.7	1.9	0.7	8.7
70 Degrees	14.8	10.9	0.7	2.1	1.0	9.1
71 to 73 Degrees	7.6	5.7	0.5	0.8	0.5	11.8
74 Degrees or More	8.2	5.3	0.6	1.8	0.5	11.9
Heat Turned Off	10.4	6.3	0.7	2.5	0.8	11.8
Unknown/No Answer	6.2	2.9	0.6	2.4	0.3	14.9
Winter Temperature During Sleeping Hours						
Heat is Turned On	89.1	67.3	4.7	11.7	5.4	4.3
63 Degrees or Less	16.4	13.0	0.7	1.8	1.0	8.9
64 to 66 Degrees	16.9	13.1	0.8	1.9	1.1	8.3
67 to 69 Degrees	19.6	15.9	0.8	1.9	1.0	8.2
70 Degrees	17.6	12.7	1.2	2.5	1.2	8.2
71 to 73 Degrees	8.4	6.2	0.5	1.1	0.6	10.5
74 Degrees or More	10.2	6.4	0.7	2.5	0.7	11.8
Heat Turned Off	7.3	4.4	0.5	1.7	0.7	14.0
Unknown/No Answer	5.1	2.1	0.4	2.3	0.2	17.3
Air-Conditioning						
Central Air-Conditioning Use						
Use a Central System	47.8	37.0	1.6	6.6	2.6	7.0
All Summer	24.6	19.4	0.6	3.2	1.5	9.2
Quite a Bit	10.4	7.9	0.6	1.3	0.6	12.1
Only a Few Times	12.4	9.4	0.4	2.0	0.5	13.4
Not at All	0.3	0.2	Q	Q	Q	55.9
No Central System	53.7	36.8	4.0	9.2	3.7	5.3
Use of Set-Back/Clock Thermostat for Cooling						
Programming Features Used	5.0	4.4	Q	0.3	0.2	19.7
Only Manual Controls Used	13.5	10.3	0.4	2.0	0.8	13.8
Used Only for Heating	0.4	0.3	Q	Q	Q	54.8
Window Air-Conditioning Use						
Use Window Units	26.5	18.0	1.9	4.6	1.9	7.5
All Summer	5.7	3.9	0.2	0.9	0.6	13.6
Quite a Bit	6.6	4.6	0.4	1.1	0.5	11.7
Only a Few Times	13.5	9.1	1.1	2.4	0.8	9.8
Not at All	0.7	0.5	Q	Q	Q	41.5
No Window Units	75.0	55.7	3.7	11.2	4.4	4.4
Hot Water						
Number of Showers/Baths Taken Each Week						
Fewer than 10	28.3	18.2	2.0	6.1	1.9	6.1
10 to 20	46.7	34.7	2.4	6.6	2.9	4.7
More than 20	26.4	20.7	1.2	3.0	1.5	6.9
Not Applicable	0.2	Q	Q	Q	Q	84.0

See footnotes at end of table.

**Table HC6-4a. Usage Indicators by Type of Housing Unit,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Type of Housing Unit			Mobile Home	RSE Row Factors
		Single-Family	Multifamily			
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.5	1.9	1.4	1.9	
Hot Water (continued)						
Dishwasher Use						
Each Week						
Use a Dishwasher	50.9	41.7	1.0	6.3	1.8	6.7
Less Than 4 Times	28.7	22.0	0.7	4.7	1.3	8.3
4 to 6 Times	12.9	11.4	0.1	1.0	0.3	11.7
At Least Once Each Day	9.3	8.3	Q	0.6	0.2	14.1
No Dishwasher	50.6	32.0	4.6	9.5	4.5	5.1
Loads of Laundry						
Washed Each Week						
Use a Clothes Washer	78.5	68.0	2.2	3.4	5.0	4.9
1 Load or Less	5.3	4.4	0.3	0.3	0.3	17.2
2 to 9 Loads	29.8	25.1	0.9	1.9	1.9	7.8
10 to 15 Loads	10.2	9.1	0.3	0.2	0.6	12.4
More than 15 Loads	3.3	3.0	Q	Q	0.2	16.8
No Washing Machine	22.9	5.8	3.4	12.4	1.3	7.5
Clothes Dryer Usage						
Use a Clothes Dryer	72.2	63.3	1.6	2.8	4.5	5.5
Every Time Clothes are Washed	57.1	49.7	1.3	2.5	3.5	6.6
Some, but not All, Loads	13.0	11.5	0.3	0.2	0.9	11.8
Used Infrequently	2.2	2.0	Q	Q	Q	21.8
No Dryer	29.3	10.5	4.0	13.0	1.8	6.5
Cooking						
Number of Hot Meals						
Cooked in the Home						
3 or More Times a Day	7.0	4.7	0.5	1.3	0.5	11.5
2 Times a Day	25.7	19.0	1.1	3.8	1.8	7.1
Once a Day	42.2	31.6	2.1	5.8	2.6	5.5
A Few Times Each Week	20.4	14.8	1.2	3.5	0.8	8.2
About Once a Week	3.1	1.8	0.5	0.6	0.3	15.4
Less Than Once a Week	3.0	1.9	0.2	0.6	0.3	18.1
Conventional Oven Use						
More Than Once a Day	8.3	6.0	0.5	1.2	0.5	10.7
Once a Day	20.5	15.7	1.0	2.6	1.2	7.9
Between Once a Day and Once a Week	34.9	26.8	1.6	4.7	1.8	5.8
Once a Week	15.1	10.9	0.8	2.5	1.0	7.9
Less Than Once a Week	21.5	13.4	1.7	4.6	1.8	6.5
Amount of Food Cooked						
in Microwave Oven						
Use a Microwave Oven	84.2	63.9	3.8	11.3	5.1	4.4
Most or All	7.3	5.0	0.3	1.6	0.4	13.2
About Half	18.4	14.0	0.6	2.7	1.1	8.2
Some or Very Little	22.3	17.1	0.8	3.1	1.3	8.7
Only for Defrosting, Reheating, or Snacks	36.2	27.8	2.0	4.0	2.3	6.7
No Microwave Oven	17.3	9.8	1.8	4.5	1.2	8.2

See footnotes at end of table.

**Table HC6-4a. Usage Indicators by Type of Housing Unit,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.5	1.9	1.4	1.9	
Lights						
Outdoor Lights on All Night						
Used	26.3	21.3	0.9	2.4	1.7	8.0
Not Used	75.2	52.4	4.7	13.4	4.6	4.1
Gas Fireplace Usage During Winter Months						
Use a Gas Fireplace	2.7	2.7	Q	Q	Q	28.7
Most Days	1.1	1.1	Q	Q	Q	33.8
Almost Once a Week	0.7	0.7	Q	Q	Q	43.1
Less Than 4 Times a Month	0.8	0.8	Q	Q	Q	65.6
Personal Computer Usage	35.6	29.2	1.2	4.2	1.0	6.2
Hours PC Turned On Each Week						
Less Than 2 Hours	8.2	7.0	0.2	0.8	0.2	13.7
2 to 15 Hours	17.4	14.4	0.6	1.9	0.5	9.0
16 to 40 Hours	6.7	5.3	0.3	0.9	0.2	13.9
On All The Time	3.3	2.6	Q	0.6	Q	17.9
Use of PCs Turned on 16 Hours a Week or More						
Personal Use Only	4.8	3.7	0.3	0.6	0.2	15.3
Business Use Only	2.1	1.7	Q	0.3	Q	23.7
Both Personal and Business	3.1	2.4	Q	0.6	Q	20.5
Business Use of PCs Turned on 16 Hours a Week or More						
Use to Telecommute	2.1	1.6	Q	0.5	Q	21.1
Other Business Use	3.1	2.6	Q	0.4	Q	22.6
Battery Operated Appliances/Tools						
Use Battery Operated Appliances/Tools	44.4	37.6	1.1	3.5	2.1	5.3
How Maintained When Not in Use						
Plugged in All The Time	12.5	10.4	0.3	1.1	0.7	10.5
Recharged As Needed	27.0	22.7	0.8	2.1	1.4	6.6
Both Ways are Used	4.9	4.5	Q	0.3	Q	18.6
Don't Use Any	57.1	36.1	4.5	12.3	4.2	4.5

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report. • All temperatures listed are in degrees Fahrenheit.

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

**Table HC6-5a. Usage Indicators by Type of Owner-Occupied Housing Unit,
Million U.S. Households, 1997**

Usage Indicators	Total Owner- Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.3	0.4	2.7	2.6	1.3	
Total	68.5	61.1	0.9	1.2	5.3	6.2
Weekday Home Activities						
Home Used for Business						
Yes	5.8	5.4	Q	Q	0.2	22.7
No	62.6	55.7	0.9	1.0	5.0	6.7
Energy-Intensive Activity						
Yes	1.8	1.7	Q	Q	Q	35.1
No	66.6	59.4	0.9	1.1	5.1	6.3
Someone Home All Day						
Yes	36.6	32.9	0.5	0.6	2.6	8.1
No	31.8	28.2	0.4	0.6	2.6	8.2
Heating						
Thermostat Available During Heating Season						
Yes	61.6	55.4	0.8	0.9	4.5	6.9
No	6.4	5.4	Q	0.3	0.7	18.3
Do Not Heat Home	0.4	0.3	Q	Q	Q	55.5
Set-Back or Clock Thermostat in Home						
Yes	33.1	29.6	0.4	0.5	2.5	10.9
No	35.4	31.5	0.5	0.7	2.7	10.3
Use of Set-Back/Clock Thermostat for Heating						
Programming Features Used	10.2	9.4	Q	Q	0.5	17.1
Only Manual Controls Used	22.9	20.2	0.3	0.4	2.0	13.3
Winter Temperature Settings						
Lower When No One Home						
Yes	31.9	28.8	0.3	0.4	2.4	9.2
No	36.5	32.3	0.6	0.7	2.8	7.8
Lower During Sleeping Hours						
Yes	34.7	31.2	0.4	0.6	2.5	9.8
No	33.8	29.9	0.5	0.6	2.8	7.9
Daytime Winter Temperature When Someone is at Home						
Heat is Turned On	65.6	58.9	0.8	0.9	4.9	6.7
63 Degrees or Less	2.1	1.9	Q	Q	Q	33.5
64 to 66 Degrees	5.3	4.7	Q	Q	0.4	18.1
67 to 69 Degrees	18.1	16.9	0.2	0.2	0.8	11.4
70 Degrees	17.9	16.1	0.3	0.2	1.4	11.7
71 to 73 Degrees	11.3	10.0	Q	Q	1.0	13.5
74 Degrees or More	10.9	9.5	Q	Q	1.1	11.5
Heat Turned Off	0.9	0.7	Q	Q	Q	76.6
Unknown/No Answer	2.0	1.5	Q	0.2	0.2	30.7

See footnotes at end of table.

**Table HC6-5a. Usage Indicators by Type of Owner-Occupied Housing Unit,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total Owner- Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.3	0.4	2.7	2.6	1.3	
Daytime Winter Temperature When No One is at Home						
Heat is Turned On	60.6	54.6	0.8	0.8	4.4	7.1
63 Degrees or Less	13.6	12.2	0.2	Q	1.1	11.9
64 to 66 Degrees	12.1	11.0	Q	Q	0.9	12.4
67 to 69 Degrees	13.7	12.8	Q	0.2	0.6	13.0
70 Degrees	10.4	9.3	Q	Q	0.8	15.0
71 to 73 Degrees	5.7	4.9	Q	Q	0.5	17.8
74 Degrees or More	5.1	4.4	Q	Q	0.4	18.9
Heat Turned Off	5.4	4.5	Q	0.2	0.6	21.4
Unknown/No Answer	2.5	2.0	Q	0.2	0.2	27.3
Winter Temperature During Sleeping Hours						
Heat is Turned On	62.8	56.8	0.8	0.8	4.5	7.0
63 Degrees or Less	11.8	10.9	Q	Q	0.7	13.9
64 to 66 Degrees	12.5	11.2	Q	Q	0.9	12.3
67 to 69 Degrees	15.1	13.9	0.2	0.2	0.8	13.1
70 Degrees	11.6	10.4	Q	Q	1.0	14.0
71 to 73 Degrees	5.9	5.3	Q	Q	0.5	16.3
74 Degrees or More	5.9	5.1	Q	Q	0.6	20.2
Heat Turned Off	3.8	3.0	Q	0.2	0.6	22.0
Unknown/No Answer	1.8	1.4	Q	0.2	0.2	31.0
Air-Conditioning						
Central Air-Conditioning Use						
Use a Central System	36.3	33.2	0.4	0.4	2.4	9.6
All Summer	19.1	17.4	Q	0.3	1.3	11.6
Quite a Bit	7.9	7.1	Q	Q	0.5	18.7
Only a Few Times	9.1	8.5	Q	Q	0.5	20.9
Not at All	0.2	0.2	Q	Q	Q	72.9
No Central System	32.1	27.9	0.5	0.8	2.9	9.8
Use of Set-Back/Clock Thermostat for Cooling						
Programming Features Used	4.3	4.0	Q	Q	0.2	25.2
Only Manual Controls Used	10.2	9.2	Q	Q	0.7	19.5
Used Only for Heating	0.3	0.3	Q	Q	Q	78.5
Window Air-Conditioning Use						
Use Window Units	16.7	14.3	0.4	0.5	1.5	12.2
All Summer	3.6	3.0	Q	Q	0.4	24.7
Quite a Bit	4.2	3.6	Q	Q	0.3	18.8
Only a Few Times	8.5	7.3	0.2	0.3	0.7	16.4
Not at All	0.5	0.4	Q	Q	Q	65.3
No Window Units	51.7	46.8	0.5	0.7	3.7	7.8
Hot Water						
Number of Showers/Baths Taken Each Week						
Fewer than 10	17.8	15.1	0.3	0.8	1.6	10.8
10 to 20	32.1	29.1	0.4	0.3	2.3	8.6
More than 20	18.4	16.9	0.2	Q	1.2	11.4
Not Applicable	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table HC6-5a. Usage Indicators by Type of Owner-Occupied Housing Unit,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total Owner- Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.3	0.4	2.7	2.6	1.3	
Hot Water (continued)						
Dishwasher Use						
Each Week						
Use a Dishwasher	40.3	37.7	0.3	0.6	1.7	9.0
Less Than 4 Times	21.7	19.9	0.2	0.4	1.2	11.4
4 to 6 Times	11.1	10.6	Q	Q	0.3	15.8
At Least Once Each Day	7.5	7.2	Q	Q	0.2	18.0
No Dishwasher	28.1	23.4	0.6	0.6	3.5	9.2
Loads of Laundry						
Washed Each Week						
Use a Clothes Washer	63.7	58.4	0.6	0.4	4.3	7.0
1 Load or Less	4.2	3.8	Q	Q	0.3	23.4
2 to 9 Loads	23.9	21.8	0.2	0.3	1.7	11.1
10 to 15 Loads	8.3	7.6	Q	Q	0.5	17.0
More than 15 Loads	2.9	2.7	Q	Q	0.1	26.3
No Washing Machine	4.8	2.7	0.3	0.7	1.0	17.6
Clothes Dryer Usage						
Use a Clothes Dryer	59.9	55.1	0.5	0.4	3.9	7.2
Every Time Clothes are Washed	46.8	43.1	0.4	0.3	3.0	8.0
Some, but not All, Loads	11.2	10.2	Q	Q	0.8	14.1
Used Infrequently	1.9	1.8	Q	Q	Q	32.7
No Dryer	8.5	6.0	0.4	0.8	1.3	14.1
Cooking						
Number of Hot Meals						
Cooked in the Home						
3 or More Times a Day	4.2	3.6	Q	Q	0.4	19.5
2 Times a Day	17.6	15.7	0.2	0.3	1.5	10.5
Once a Day	30.0	27.1	0.3	0.4	2.2	9.3
A Few Times Each Week	12.9	11.9	Q	0.2	0.7	15.3
About Once a Week	1.8	1.4	Q	Q	0.2	27.4
Less Than Once a Week	1.9	1.4	Q	Q	0.3	29.6
Conventional Oven Use						
More Than Once a Day	5.3	4.6	Q	Q	0.4	17.4
Once a Day	14.3	12.9	0.2	Q	1.0	12.5
Between Once a Day and Once a Week	25.0	23.1	Q	0.3	1.4	10.0
Once a Week	10.2	9.0	Q	0.3	0.8	12.1
Less Than Once a Week	13.0	10.9	0.4	0.2	1.5	11.4
Amount of Food Cooked in Microwave Oven						
Use a Microwave Oven	60.0	54.0	0.7	0.9	4.4	6.5
Most or All	4.7	4.1	Q	0.2	0.4	18.8
About Half	12.9	11.7	Q	0.2	0.9	12.1
Some or Very Little	15.9	14.5	0.2	0.2	1.1	11.6
Only for Defrosting, Reheating, or Snacks	26.4	23.8	0.4	0.2	2.0	11.2
No Microwave Oven	8.5	7.1	0.2	0.3	0.9	16.3

See footnotes at end of table.

**Table HC6-5a. Usage Indicators by Type of Owner-Occupied Housing Unit,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total Owner- Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.3	0.4	2.7	2.6	1.3	
Lights						
Outdoor Lights on All Night						
Used	20.2	18.4	0.2	Q	1.4	10.3
Not Used	48.2	42.7	0.7	1.0	3.8	7.6
Gas Fireplace Usage During Winter Months						
Use a Gas Fireplace	2.7	2.6	Q	Q	Q	39.0
Most Days	1.1	1.1	Q	Q	Q	45.3
Almost Once a Week	0.7	0.7	Q	Q	Q	57.6
Less Than 4 Times a Month	0.8	0.8	Q	Q	Q	88.0
Personal Computer Usage	26.6	25.4	Q	0.2	0.8	9.7
Hours PC Turned On Each Week						
Less Than 2 Hours	6.5	6.2	Q	Q	0.2	20.0
2 to 15 Hours	12.9	12.3	Q	Q	0.4	13.8
16 to 40 Hours	4.9	4.6	Q	Q	0.2	20.2
On All The Time	2.3	2.2	Q	Q	Q	30.6
Use of PCs Turned on 16 Hours a Week or More						
Personal Use Only	3.4	3.2	Q	Q	0.2	25.0
Business Use Only	1.6	1.6	Q	Q	Q	35.9
Both Personal and Business	2.1	2.1	Q	Q	Q	28.1
Business Use of PCs Turned on 16 Hours a Week or More						
Use to Telecommute	1.4	1.3	Q	Q	Q	33.7
Other Business Use	2.4	2.3	Q	Q	Q	29.3
Battery Operated Appliances/Tools						
Use Battery Operated Appliances/Tools	36.0	33.3	0.4	0.3	1.9	8.1
How Maintained When Not in Use						
Plugged in All The Time	10.3	9.4	Q	Q	0.6	14.6
Recharged As Needed	21.5	19.9	0.2	0.2	1.3	10.5
Both Ways are Used	4.1	4.1	Q	Q	Q	25.6
Don't Use Any	32.5	27.8	0.6	0.8	3.3	8.2

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report. • All temperatures listed are in degrees Fahrenheit.

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

**Table HC6-6a. Usage Indicators by Type of Rented Housing Unit,
Million U.S. Households, 1997**

Usage Indicators	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.7	1.3	0.9	2.2	
Total	33.0	12.6	4.7	14.6	1.1	6.3
Weekday Home Activities						
Home Used for Business						
Yes	1.5	0.7	Q	0.8	Q	25.5
No	31.5	11.9	4.7	13.9	1.0	6.3
Energy-Intensive Activity						
Yes	0.6	0.3	Q	0.2	Q	35.5
No	32.4	12.3	4.7	14.4	1.1	6.4
Someone Home All Day						
Yes	14.7	6.1	2.3	5.8	0.5	8.8
No	18.3	6.6	2.4	8.8	0.5	8.0
Heating						
Thermostat Available During Heating Season						
Yes	24.3	10.0	3.7	9.8	0.9	7.4
No	8.3	2.5	1.0	4.6	Q	12.1
Do Not Heat Home	0.4	Q	Q	0.3	Q	56.5
Set-Back or Clock Thermostat in Home						
Yes	11.8	4.9	1.7	4.7	0.5	12.0
No	21.2	7.7	3.0	10.0	0.6	7.8
Use of Set-Back/Clock Thermostat for Heating						
Programming Features Used	1.5	0.9	0.2	0.4	Q	24.9
Only Manual Controls Used	10.3	4.0	1.5	4.3	0.5	12.7
Winter Temperature Settings						
Lower When No One Home						
Yes	13.5	6.1	1.8	5.2	0.4	8.9
No	19.5	6.5	2.9	9.5	0.6	7.7
Lower During Sleeping Hours						
Yes	12.8	5.7	1.9	4.8	0.5	8.9
No	20.2	6.9	2.8	9.9	0.6	7.6
Daytime Winter Temperature When Someone is at Home						
Heat is Turned On	28.3	11.4	4.3	11.7	1.0	6.8
63 Degrees or Less	1.8	0.7	0.2	0.8	Q	21.8
64 to 66 Degrees	3.0	1.2	0.5	1.2	Q	16.6
67 to 69 Degrees	5.2	2.5	0.7	1.8	0.2	13.5
70 Degrees	7.7	3.1	1.2	3.1	0.4	11.1
71 to 73 Degrees	3.5	1.4	0.6	1.3	Q	15.5
74 Degrees or More	7.1	2.4	1.2	3.4	0.2	13.0
Heat Turned Off	1.2	0.4	Q	0.8	Q	21.9
Unknown/No Answer	3.5	0.9	0.4	2.2	Q	17.5

See footnotes at end of table.

**Table HC6-6a. Usage Indicators by Type of Rented Housing Unit,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.7	1.3	0.9	2.2	
Daytime Winter Temperature When No One is at Home						
Heat is Turned On	24.3	9.8	3.6	10.1	0.8	7.1
63 Degrees or Less	6.1	2.7	0.9	2.3	0.2	12.9
64 to 66 Degrees	4.4	1.9	0.7	1.7	0.2	14.4
67 to 69 Degrees	4.3	2.0	0.6	1.7	0.1	15.0
70 Degrees	4.4	1.6	0.6	2.0	0.2	14.0
71 to 73 Degrees	1.9	0.8	0.3	0.8	Q	21.0
74 Degrees or More	3.1	0.9	0.5	1.7	Q	20.5
Heat Turned Off	5.0	1.8	0.6	2.4	0.2	15.1
Unknown/No Answer	3.7	1.0	0.5	2.1	Q	17.0
Winter Temperature During Sleeping Hours						
Heat is Turned On	26.3	10.5	3.9	11.0	0.9	6.9
63 Degrees or Less	4.6	2.1	0.6	1.6	0.3	12.9
64 to 66 Degrees	4.4	1.9	0.6	1.8	0.1	14.7
67 to 69 Degrees	4.5	2.0	0.6	1.7	0.1	13.2
70 Degrees	6.0	2.3	1.0	2.4	0.2	11.8
71 to 73 Degrees	2.5	0.9	0.5	1.0	Q	17.1
74 Degrees or More	4.4	1.3	0.6	2.4	Q	17.9
Heat Turned Off	3.4	1.4	0.5	1.5	Q	18.4
Unknown/No Answer	3.3	0.7	0.3	2.2	Q	18.5
Air-Conditioning						
Central Air-Conditioning Use						
Use a Central System	11.4	3.8	1.2	6.2	0.3	12.7
All Summer	5.5	2.0	0.4	3.0	0.2	15.7
Quite a Bit	2.5	0.8	0.4	1.3	Q	22.2
Only a Few Times	3.3	1.0	0.4	1.9	Q	24.0
Not at All	Q	Q	Q	Q	Q	NF
No Central System	21.6	8.9	3.4	8.5	0.8	7.3
Use of Set-Back/Clock Thermostat for Cooling						
Programming Features Used	0.7	0.3	Q	0.3	Q	39.8
Only Manual Controls Used	3.3	1.0	0.3	1.8	Q	20.8
Used Only for Heating	Q	Q	Q	Q	Q	NF
Window Air-Conditioning Use						
Use Window Units	9.8	3.7	1.5	4.1	0.4	10.8
All Summer	2.1	0.9	0.2	0.8	0.2	17.5
Quite a Bit	2.4	1.0	0.3	1.0	Q	20.5
Only a Few Times	5.1	1.8	0.9	2.2	0.1	13.1
Not at All	0.2	Q	Q	Q	Q	91.6
No Window Units	23.3	8.9	3.2	10.5	0.7	7.7
Hot Water						
Number of Showers/Baths Taken Each Week						
Fewer than 10	10.4	3.1	1.7	5.3	0.3	10.8
10 to 20	14.6	5.6	2.0	6.3	0.6	8.4
More than 20	7.9	3.8	1.0	2.9	0.2	11.5
Not Applicable	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table HC6-6a. Usage Indicators by Type of Rented Housing Unit,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.7	1.3	0.9	2.2	
Hot Water (continued)						
Dishwasher Use						
Each Week						
Use a Dishwasher	10.6	4.0	0.7	5.8	Q	13.5
Less Than 4 Times	6.9	2.1	0.5	4.2	Q	16.0
4 to 6 Times	1.8	0.8	Q	0.9	Q	20.0
At Least Once Each Day	1.8	1.1	Q	0.6	Q	23.7
No Dishwasher	22.5	8.6	4.0	8.9	1.0	7.5
Loads of Laundry						
Washed Each Week						
Use a Clothes Washer	14.9	9.5	1.7	3.0	0.7	10.2
1 Load or Less	1.0	0.5	0.2	0.2	Q	28.9
2 to 9 Loads	5.9	3.3	0.7	1.6	0.2	14.2
10 to 15 Loads	1.9	1.5	0.1	0.2	Q	23.9
More than 15 Loads	0.5	0.3	Q	Q	Q	36.8
No Washing Machine	18.2	3.1	3.0	11.7	0.3	8.9
Clothes Dryer Usage						
Use a Clothes Dryer	12.3	8.1	1.1	2.4	0.6	12.1
Every Time Clothes are Washed	10.3	6.7	0.9	2.2	0.5	13.1
Some, but not All, Loads	1.7	1.3	0.2	Q	Q	20.0
Used Infrequently	0.3	0.2	Q	Q	Q	47.4
No Dryer	20.8	4.5	3.6	12.2	0.5	7.9
Cooking						
Number of Hot Meals						
Cooked in the Home						
3 or More Times a Day	2.9	1.2	0.4	1.2	0.1	17.6
2 Times a Day	8.1	3.3	0.9	3.5	0.3	11.4
Once a Day	12.1	4.5	1.8	5.4	0.4	9.4
A Few Times Each Week	7.4	2.9	1.1	3.3	0.2	11.8
About Once a Week	1.2	0.3	0.4	0.5	Q	24.3
Less Than Once a Week	1.1	0.4	Q	0.6	Q	29.4
Conventional Oven Use						
More Than Once a Day	3.0	1.4	0.4	1.1	Q	16.8
Once a Day	6.2	2.8	0.8	2.4	0.2	11.7
Between Once a Day and Once a Week	9.9	3.7	1.5	4.3	0.3	9.5
Once a Week	4.9	1.9	0.7	2.2	0.2	14.9
Less Than Once a Week	8.5	2.5	1.3	4.4	0.3	11.0
Amount of Food Cooked in Microwave Oven						
Use a Microwave Oven	24.2	9.9	3.1	10.4	0.8	7.2
Most or All	2.6	0.9	0.3	1.4	Q	20.2
About Half	5.5	2.3	0.6	2.5	0.2	13.2
Some or Very Little	6.3	2.6	0.6	2.8	0.2	13.9
Only for Defrosting, Reheating, or Snacks	9.7	4.1	1.6	3.8	0.3	11.2
No Microwave Oven	8.8	2.7	1.6	4.2	0.3	9.7

See footnotes at end of table.

**Table HC6-6a. Usage Indicators by Type of Rented Housing Unit,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.7	1.3	0.9	2.2	
Lights						
Outdoor Lights on All Night						
Used	6.1	2.9	0.7	2.3	0.2	14.1
Not Used	26.9	9.7	4.0	12.4	0.8	6.9
Gas Fireplace Usage During Winter Months						
Use a Gas Fireplace	Q	Q	Q	Q	Q	NF
Most Days	Q	Q	Q	Q	Q	NF
Almost Once a Week	Q	Q	Q	Q	Q	NF
Less Than 4 Times a Month	Q	Q	Q	Q	Q	NF
Personal Computer Usage	9.0	3.9	1.0	3.9	0.1	10.6
Hours PC Turned On Each Week						
Less Than 2 Hours	1.7	0.8	0.2	0.7	Q	22.7
2 to 15 Hours	4.5	2.1	0.5	1.8	Q	14.4
16 to 40 Hours	1.8	0.7	0.3	0.8	Q	22.9
On All The Time	1.0	0.4	Q	0.6	Q	29.3
Use of PCs Turned on 16 Hours a Week or More						
Personal Use Only	1.3	0.5	0.3	0.5	Q	25.2
Business Use Only	0.5	Q	Q	0.3	Q	34.3
Both Personal and Business	1.0	0.4	Q	0.5	Q	34.5
Business Use of PCs Turned on 16 Hours a Week or More						
Use to Telecommute	0.7	0.2	Q	0.5	Q	34.1
Other Business Use	0.7	0.3	Q	0.4	Q	39.2
Battery Operated Appliances/Tools						
Use Battery Operated Appliances/Tools	8.4	4.3	0.8	3.2	0.2	10.9
How Maintained When Not in Use						
Plugged in All The Time	2.2	1.0	Q	1.0	Q	16.3
Recharged As Needed	5.5	2.8	0.6	1.9	0.1	12.9
Both Ways are Used	0.8	0.4	Q	0.3	Q	44.8
Don't Use Any	24.6	8.3	3.9	11.5	0.9	7.3

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report. • All temperatures listed are in degrees Fahrenheit.

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

**Table HC6-7a. Usage Indicators by Four Most Populated States,
Million U.S. Households, 1997**

Usage Indicators	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.2	1.1	1.3	1.5	
Total	101.5	6.8	11.5	7.0	5.9	NF
Weekday Home Activities						
Home Used for Business						
Yes	7.4	0.5	0.9	0.4	0.4	13.5
No	94.1	6.3	10.6	6.5	5.6	2.2
Energy-Intensive Activity						
Yes	2.4	Q	0.4	0.1	Q	26.0
No	99.1	6.7	11.1	6.8	5.8	1.5
Someone Home All Day						
Yes	51.3	3.8	5.8	3.5	3.4	3.2
No	50.1	3.0	5.6	3.5	2.5	3.6
Heating						
Thermostat Available During Heating Season						
Yes	86.0	4.6	8.8	5.8	5.0	3.2
No	14.7	2.2	2.6	1.1	0.7	13.1
Do Not Heat Home	0.8	(*)	Q	Q	Q	24.0
Set-Back or Clock Thermostat in Home						
Yes	44.9	2.5	5.9	3.8	3.6	8.1
No	56.6	4.3	5.6	3.2	2.4	7.8
Use of Set-Back/Clock Thermostat for Heating						
Programming Features Used	11.7	0.9	1.6	0.7	0.7	15.8
Only Manual Controls Used	33.2	1.7	4.3	3.1	2.8	11.0
Winter Temperature Settings						
Lower When No One Home						
Yes	45.5	2.3	6.8	3.0	2.3	4.0
No	56.0	4.5	4.7	4.0	3.6	3.1
Lower During Sleeping Hours						
Yes	47.4	2.7	7.4	3.2	2.5	3.9
No	54.0	4.1	4.1	3.8	3.4	3.6
Daytime Winter Temperature When Someone is at Home						
Heat is Turned On	93.9	5.8	9.8	6.4	4.7	2.7
63 Degrees or Less	3.8	0.3	0.7	0.1	0.1	26.4
64 to 66 Degrees	8.3	0.7	1.6	0.4	0.4	12.7
67 to 69 Degrees	23.4	1.6	2.5	1.1	0.6	9.1
70 Degrees	25.6	1.5	2.9	1.7	0.9	8.2
71 to 73 Degrees	14.7	0.8	0.8	1.0	0.9	8.3
74 Degrees or More	18.1	0.9	1.3	2.2	1.9	8.9
Heat Turned Off	2.1	Q	1.1	Q	0.6	22.0
Unknown/No Answer	5.5	1.1	0.5	0.5	0.6	22.3

See footnotes at end of table.

**Table HC6-7a. Usage Indicators by Four Most Populated States,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.2	1.1	1.3	1.5	
Daytime Winter Temperature When No One is at Home						
Heat is Turned On	84.9	5.6	6.7	5.6	3.7	3.3
63 Degrees or Less	19.7	1.2	2.6	1.2	0.5	13.5
64 to 66 Degrees	16.6	1.2	1.5	0.7	0.7	9.9
67 to 69 Degrees	18.0	1.2	1.1	1.0	0.4	11.0
70 Degrees	14.8	1.1	1.0	1.4	0.6	10.6
71 to 73 Degrees	7.6	0.5	0.3	0.5	0.4	14.2
74 Degrees or More	8.2	0.5	Q	0.8	1.1	12.5
Heat Turned Off	10.4	0.1	4.1	0.9	1.7	11.7
Unknown/No Answer	6.2	1.1	0.7	0.5	0.6	18.7
Winter Temperature During Sleeping Hours						
Heat is Turned On	89.1	5.7	7.4	6.2	4.3	3.0
63 Degrees or Less	16.4	1.1	2.5	0.8	0.3	13.3
64 to 66 Degrees	16.9	1.3	1.5	1.1	0.6	7.5
67 to 69 Degrees	19.6	1.3	1.3	1.1	0.6	8.8
70 Degrees	17.6	1.0	1.3	1.5	0.7	10.3
71 to 73 Degrees	8.4	0.4	0.4	0.6	0.7	13.5
74 Degrees or More	10.2	0.6	0.5	1.1	1.5	16.4
Heat Turned Off	7.3	0.1	3.6	0.3	1.0	17.7
Unknown/No Answer	5.1	1.1	0.4	0.4	0.6	23.1
Air-Conditioning						
Central Air-Conditioning Use						
Use a Central System	47.8	1.3	3.3	4.8	4.9	5.3
All Summer	24.6	0.4	0.7	3.7	3.6	9.4
Quite a Bit	10.4	0.4	0.8	0.6	0.6	12.6
Only a Few Times	12.4	0.5	1.7	0.5	0.6	16.1
Not at All	0.3	Q	0.1	(*)	0.1	29.0
No Central System	53.7	5.6	8.2	2.2	1.0	5.2
Use of Set-Back/Clock Thermostat for Cooling						
Programming Features Used	5.0	0.2	0.3	0.7	0.5	16.7
Only Manual Controls Used	13.5	0.4	0.7	2.1	2.4	16.7
Used Only for Heating	0.4	Q	Q	Q	Q	57.5
Window Air-Conditioning Use						
Use Window Units	26.5	3.0	1.5	1.6	0.9	10.0
All Summer	5.7	0.4	0.2	0.7	0.3	22.7
Quite a Bit	6.6	0.8	0.3	0.4	0.2	18.6
Only a Few Times	13.5	1.8	1.0	0.5	0.3	11.2
Not at All	0.7	Q	Q	Q	0.1	36.2
No Window Units	75.0	3.8	10.0	5.3	5.1	2.9
Hot Water						
Number of Showers/Baths Taken Each Week						
Fewer than 10	28.3	1.9	2.8	1.6	1.3	6.9
10 to 20	46.7	3.1	5.7	2.8	2.5	4.4
More than 20	26.4	1.8	2.9	2.5	2.1	6.7
Not Applicable	0.2	(*)	(*)	Q	Q	43.3

See footnotes at end of table.

**Table HC6-7a. Usage Indicators by Four Most Populated States,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.2	1.1	1.3	1.5	
Hot Water (continued)						
Dishwasher Use						
Each Week						
Use a Dishwasher	50.9	3.1	5.5	3.8	3.4	6.1
Less Than 4 Times	28.7	1.8	3.2	2.1	2.1	8.6
4 to 6 Times	12.9	0.8	1.4	0.9	0.8	11.7
At Least Once Each Day	9.3	0.6	0.9	0.8	0.5	12.7
No Dishwasher	50.6	3.7	6.0	3.2	2.5	6.4
Loads of Laundry						
Washed Each Week						
Use a Clothes Washer	78.5	4.5	7.0	5.1	4.9	4.3
1 Load or Less	5.3	0.4	0.5	0.3	0.4	19.2
2 to 9 Loads	29.8	2.0	2.8	1.6	2.1	7.5
10 to 15 Loads	10.2	0.5	0.7	0.7	0.5	12.4
More than 15 Loads	3.3	0.2	0.2	0.3	0.1	23.7
No Washing Machine	22.9	2.3	4.5	1.9	1.1	11.5
Clothes Dryer Usage						
Use a Clothes Dryer	72.2	3.7	6.6	4.8	4.4	4.1
Every Time Clothes are Washed	57.1	2.7	5.4	4.3	3.8	6.1
Some, but not All, Loads	13.0	0.8	1.0	0.5	0.4	15.5
Used Infrequently	2.2	0.2	0.2	Q	0.1	20.1
No Dryer	29.3	3.1	4.9	2.1	1.6	7.9
Cooking						
Number of Hot Meals						
Cooked in the Home						
3 or More Times a Day	7.0	0.6	1.0	0.6	0.8	11.6
2 Times a Day	25.7	1.3	2.9	1.8	1.3	8.4
Once a Day	42.2	2.9	4.8	2.6	2.4	6.9
A Few Times Each Week	20.4	1.4	2.2	1.4	1.1	10.5
About Once a Week	3.1	0.3	0.2	0.4	0.2	20.8
Less Than Once a Week	3.0	Q	0.4	0.2	0.2	28.5
Conventional Oven Use						
More Than Once a Day	8.3	0.5	0.9	0.7	0.5	17.4
Once a Day	20.5	1.1	1.9	1.5	1.2	8.7
Between Once a Day and Once a Week	34.9	2.0	3.7	2.4	1.8	6.9
Once a Week	15.1	1.2	1.4	1.0	1.1	8.2
Less Than Once a Week	21.5	1.9	3.4	1.4	1.3	8.4
Amount of Food Cooked in Microwave Oven						
Use a Microwave Oven	84.2	5.2	9.4	5.6	5.0	2.1
Most or All	7.3	0.4	1.0	0.5	0.4	16.8
About Half	18.4	0.7	2.4	1.3	1.2	9.0
Some or Very Little	22.3	1.4	2.4	1.1	1.2	12.6
Only for Defrosting, Reheating, or Snacks	36.2	2.7	3.7	2.6	2.1	6.8
No Microwave Oven	17.3	1.6	2.1	1.4	1.0	9.3

See footnotes at end of table.

**Table HC6-7a. Usage Indicators by Four Most Populated States,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.2	1.1	1.3	1.5	
Lights						
Outdoor Lights on All Night						
Used	26.3	1.3	2.3	2.5	1.8	9.4
Not Used	75.2	5.5	9.1	4.5	4.2	3.3
Gas Fireplace Usage During Winter Months						
Use a Gas Fireplace	2.7	0.1	Q	Q	Q	13.8
Most Days	1.1	Q	Q	Q	Q	39.1
Almost Once a Week	0.7	0.1	Q	Q	Q	40.4
Less Than 4 Times a Month	0.8	Q	Q	Q	Q	76.4
Personal Computer Usage	35.6	2.2	4.6	2.6	2.0	5.9
Hours PC Turned On Each Week						
Less Than 2 Hours	8.2	0.5	0.8	0.5	0.3	17.3
2 to 15 Hours	17.4	1.1	2.3	1.3	1.0	10.8
16 to 40 Hours	6.7	0.5	1.0	0.4	0.4	14.3
On All The Time	3.3	0.2	0.5	0.3	0.3	17.5
Use of PCs Turned on 16 Hours a Week or More						
Personal Use Only	4.8	0.2	0.6	0.5	0.3	16.2
Business Use Only	2.1	0.1	0.4	0.1	Q	27.8
Both Personal and Business	3.1	0.3	0.5	0.2	0.3	24.8
Business Use of PCs Turned on 16 Hours a Week or More						
Use to Telecommute	2.1	0.2	0.5	0.2	Q	22.9
Other Business Use	3.1	0.2	0.4	Q	0.3	27.4
Battery Operated Appliances/Tools						
Use Battery Operated Appliances/Tools	44.4	2.7	5.0	3.2	2.5	5.1
How Maintained When Not in Use						
Plugged in All The Time	12.5	0.6	0.9	0.9	0.8	11.9
Recharged As Needed	27.0	1.8	3.0	1.8	1.6	7.1
Both Ways are Used	4.9	0.2	1.1	0.5	0.1	17.4
Don't Use Any	57.1	4.2	6.5	3.8	3.4	3.8

(*) = 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" for definition of terms used in this report. • All temperatures listed are in degrees Fahrenheit.

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

**Table HC6-8a. Usage Indicators by Urban/Rural Location,
Million U.S. Households, 1997**

Usage Indicators	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
		0.5	0.8	1.4	1.3	
Total	101.5	48.2	18.2	18.6	16.5	4.0
Weekday Home Activities						
Home Used for Business						
Yes	7.4	2.9	1.0	1.3	2.2	12.0
No	94.1	45.4	17.2	17.3	14.3	4.0
Energy-Intensive Activity						
Yes	2.4	0.9	0.3	0.5	0.6	18.6
No	99.1	47.3	17.9	18.1	15.8	4.0
Someone Home All Day						
Yes	51.3	23.7	9.6	9.5	8.6	4.4
No	50.1	24.6	8.6	9.1	7.9	4.5
Heating						
Thermostat Available During Heating Season						
Yes	86.0	38.9	16.1	17.3	13.7	4.3
No	14.7	8.8	2.1	1.1	2.7	10.0
Do Not Heat Home	0.8	0.5	Q	0.2	Q	25.8
Set-Back or Clock Thermostat in Home						
Yes	44.9	20.8	8.1	9.5	6.5	6.7
No	56.6	27.4	10.2	9.1	9.9	5.9
Use of Set-Back/Clock Thermostat for Heating						
Programming Features Used	11.7	5.2	1.9	3.1	1.4	9.8
Only Manual Controls Used	33.2	15.6	6.2	6.3	5.1	8.2
Winter Temperature Settings						
Lower When No One Home						
Yes	45.5	20.9	8.7	8.2	7.7	4.8
No	56.0	27.4	9.5	10.4	8.7	4.2
Lower During Sleeping Hours						
Yes	47.4	22.0	8.9	8.7	7.9	4.7
No	54.0	26.3	9.3	9.9	8.6	4.4
Daytime Winter Temperature When Someone is at Home						
Heat is Turned On	93.9	43.0	17.4	17.6	15.8	4.2
63 Degrees or Less	3.8	2.0	0.9	0.4	0.6	16.7
64 to 66 Degrees	8.3	3.4	1.8	1.5	1.6	9.8
67 to 69 Degrees	23.4	9.5	4.5	5.6	3.8	6.1
70 Degrees	25.6	11.8	4.7	4.6	4.5	5.5
71 to 73 Degrees	14.7	6.7	2.5	2.9	2.6	7.7
74 Degrees or More	18.1	9.5	3.0	2.8	2.8	7.4
Heat Turned Off	2.1	1.6	0.3	Q	Q	21.5
Unknown/No Answer	5.5	3.6	0.6	0.7	0.5	18.3

See footnotes at end of table.

**Table HC6-8a. Usage Indicators by Urban/Rural Location,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
RSE Column Factor:	0.5	0.8	1.4	1.3	1.4	
Daytime Winter Temperature When No One is at Home						
Heat is Turned On	84.9	37.5	16.2	16.6	14.6	4.3
63 Degrees or Less	19.7	8.2	4.3	3.6	3.6	6.8
64 to 66 Degrees	16.6	7.2	3.4	3.1	2.8	6.3
67 to 69 Degrees	18.0	7.5	3.3	4.3	3.0	7.3
70 Degrees	14.8	6.7	2.7	2.8	2.6	6.8
71 to 73 Degrees	7.6	3.4	1.2	1.6	1.3	10.2
74 Degrees or More	8.2	4.5	1.3	1.2	1.2	10.4
Heat Turned Off	10.4	7.0	1.2	1.1	1.1	11.4
Unknown/No Answer	6.2	3.8	0.8	0.9	0.7	16.0
Winter Temperature During Sleeping Hours						
Heat is Turned On	89.1	40.1	16.7	17.2	15.1	4.2
63 Degrees or Less	16.4	7.0	3.7	2.6	3.1	7.6
64 to 66 Degrees	16.9	7.1	3.0	3.8	3.0	6.1
67 to 69 Degrees	19.6	7.8	4.2	4.5	3.2	7.3
70 Degrees	17.6	8.4	3.2	3.1	2.9	6.3
71 to 73 Degrees	8.4	4.2	1.2	1.6	1.4	9.7
74 Degrees or More	10.2	5.7	1.5	1.6	1.4	9.9
Heat Turned Off	7.3	4.7	1.0	0.6	0.9	13.8
Unknown/No Answer	5.1	3.4	0.5	0.7	0.5	19.1
Air-Conditioning						
Central Air-Conditioning Use						
Use a Central System	47.8	20.8	7.8	11.9	7.3	5.5
All Summer	24.6	10.7	4.0	6.0	3.9	7.3
Quite a Bit	10.4	4.3	1.5	2.9	1.6	9.6
Only a Few Times	12.4	5.4	2.2	3.0	1.7	9.5
Not at All	0.3	0.3	Q	Q	Q	32.7
No Central System	53.7	27.5	10.4	6.6	9.2	4.8
Use of Set-Back/Clock Thermostat for Cooling						
Programming Features Used	5.0	1.9	0.9	1.6	0.6	14.2
Only Manual Controls Used	13.5	6.0	2.1	3.2	2.2	11.0
Used Only for Heating	0.4	0.2	0.2	Q	Q	36.2
Window Air-Conditioning Use						
Use Window Units	26.5	13.2	5.6	3.2	4.5	6.5
All Summer	5.7	2.7	1.2	0.7	1.1	12.5
Quite a Bit	6.6	3.3	1.3	0.9	1.2	10.0
Only a Few Times	13.5	6.9	3.0	1.5	2.1	8.4
Not at All	0.7	0.4	0.1	Q	Q	30.5
No Window Units	75.0	35.0	12.6	15.4	11.9	4.0
Hot Water						
Number of Showers/Baths Taken Each Week						
Fewer than 10	28.3	14.3	5.7	4.4	3.8	5.3
10 to 20	46.7	21.7	7.7	8.7	8.6	4.4
More than 20	26.4	12.2	4.8	5.4	4.0	5.6
Not Applicable	0.2	0.1	Q	Q	Q	57.6

See footnotes at end of table.

**Table HC6-8a. Usage Indicators by Urban/Rural Location,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Urban/Rural Location ¹					RSE Row Factors
	Total	City	Town	Suburbs	Rural	
	0.5	0.8	1.4	1.3	1.4	
Hot Water (continued)						
Dishwasher Use						
Each Week						
Use a Dishwasher	50.9	20.3	8.9	13.4	8.3	5.0
Less Than 4 Times	28.7	12.3	4.7	7.2	4.5	6.1
4 to 6 Times	12.9	4.8	2.4	3.7	2.1	8.5
At Least Once Each Day	9.3	3.3	1.8	2.5	1.8	9.4
No Dishwasher	50.6	27.9	9.3	5.2	8.1	4.9
Loads of Laundry						
Washed Each Week						
Use a Clothes Washer	78.5	32.6	14.7	16.4	14.8	4.1
1 Load or Less	5.3	2.4	1.1	1.1	0.7	13.4
2 to 9 Loads	29.8	13.0	5.6	5.9	5.3	5.9
10 to 15 Loads	10.2	3.8	2.1	2.0	2.2	8.8
More than 15 Loads	3.3	0.9	0.8	0.7	0.8	14.1
No Washing Machine	22.9	15.7	3.5	2.2	1.6	8.2
Clothes Dryer Usage						
Use a Clothes Dryer	72.2	28.9	13.6	15.8	14.0	4.3
Every Time Clothes are Washed	57.1	23.2	10.7	13.3	9.9	5.1
Some, but not All, Loads	13.0	4.9	2.4	2.1	3.5	7.9
Used Infrequently	2.2	0.8	0.5	0.3	0.5	17.5
No Dryer	29.3	19.4	4.6	2.8	2.5	6.9
Cooking						
Number of Hot Meals						
Cooked in the Home						
3 or More Times a Day	7.0	3.9	1.3	0.9	1.0	10.9
2 Times a Day	25.7	12.0	4.3	3.9	5.4	5.9
Once a Day	42.2	18.7	8.1	8.6	6.8	4.5
A Few Times Each Week	20.4	10.4	3.2	4.1	2.6	8.6
About Once a Week	3.1	1.5	0.6	0.5	0.4	14.4
Less Than Once a Week	3.0	1.7	0.6	0.5	0.3	18.2
Conventional Oven Use						
More Than Once a Day	8.3	3.9	1.6	1.1	1.7	10.4
Once a Day	20.5	9.0	3.9	3.6	4.0	6.5
Between Once a Day and Once a Week	34.9	15.8	6.6	6.9	5.6	4.9
Once a Week	15.1	7.2	2.3	3.2	2.4	7.1
Less Than Once a Week	21.5	11.7	3.7	3.7	2.5	6.8
Amount of Food Cooked						
in Microwave Oven						
Use a Microwave Oven	84.2	37.9	15.8	16.4	14.1	4.5
Most or All	7.3	3.7	1.3	1.5	0.9	11.1
About Half	18.4	8.1	3.6	4.0	2.8	6.8
Some or Very Little	22.3	9.8	4.1	4.4	3.9	7.5
Only for Defrosting, Reheating, or Snacks	36.2	16.3	6.7	6.6	6.6	5.9
No Microwave Oven	17.3	10.3	2.5	2.2	2.3	8.7

See footnotes at end of table.

Table HC6-8a. Usage Indicators by Urban/Rural Location, Million U.S. Households, 1997 (Continued)

Usage Indicators	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
RSE Column Factor:	0.5	0.8	1.4	1.3	1.4	
Lights						
Outdoor Lights on All Night						
Used	26.3	11.3	3.7	5.5	5.7	6.0
Not Used	75.2	36.9	14.5	13.0	10.7	3.9
Gas Fireplace Usage During Winter Months						
Use a Gas Fireplace	2.7	1.1	0.4	0.8	0.4	20.1
Most Days	1.1	0.5	0.2	0.1	0.2	26.8
Almost Once a Week	0.7	0.2	Q	0.4	Q	33.3
Less Than 4 Times a Month	0.8	0.3	Q	0.3	Q	42.6
Personal Computer Usage	35.6	15.9	5.6	8.9	5.2	5.4
Hours PC Turned On Each Week						
Less Than 2 Hours	8.2	3.6	1.4	1.7	1.4	10.0
2 to 15 Hours	17.4	7.7	2.7	4.7	2.2	7.0
16 to 40 Hours	6.7	3.0	1.0	1.6	1.0	10.7
On All The Time	3.3	1.5	0.5	0.9	0.5	15.2
Use of PCs Turned on 16 Hours a Week or More						
Personal Use Only	4.8	2.2	0.7	1.2	0.7	12.7
Business Use Only	2.1	0.8	0.4	0.6	0.3	19.2
Both Personal and Business	3.1	1.4	0.4	0.7	0.5	16.8
Business Use of PCs Turned on 16 Hours a Week or More						
Use to Telecommute	2.1	1.1	0.2	0.5	0.3	20.2
Other Business Use	3.1	1.2	0.6	0.8	0.5	15.8
Battery Operated Appliances/Tools						
Use Battery Operated Appliances/Tools	44.4	17.8	8.2	10.0	8.3	4.7
How Maintained When Not in Use						
Plugged in All The Time	12.5	5.0	2.4	3.2	1.9	8.3
Recharged As Needed	27.0	10.8	4.9	5.9	5.4	5.5
Both Ways are Used	4.9	2.0	0.9	1.0	1.0	11.6
Don't Use Any	57.1	30.4	10.0	8.5	8.2	4.1

¹ Based on the household respondent's description rather than the Federal Government definition.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• See "Glossary" for definition of terms used in this report. • All temperatures listed are in degrees Fahrenheit.

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

**Table HC6-9a. Usage Indicators by Northeast Census Region,
Million U.S. Households, 1997**

Usage Indicators	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.1	1.3	1.4	
Total	101.5	19.7	14.4	5.3	NF
Weekday Home Activities					
Home Used for Business					
Yes	7.4	1.4	1.0	0.4	17.2
No	94.1	18.3	13.4	4.9	1.5
Energy-Intensive Activity					
Yes	2.4	0.4	0.2	0.2	20.5
No	99.1	19.4	14.2	5.1	NF
Someone Home All Day					
Yes	51.3	10.4	7.7	2.7	2.9
No	50.1	9.3	6.7	2.6	3.1
Heating					
Thermostat Available During Heating Season					
Yes	86.0	16.1	11.4	4.6	1.4
No	14.7	3.6	3.0	0.7	7.8
Do Not Heat Home	0.8	Q	Q	Q	38.2
Set-Back or Clock Thermostat in Home					
Yes	44.9	7.4	5.6	1.8	9.0
No	56.6	12.4	8.9	3.5	5.6
Use of Set-Back/Clock Thermostat for Heating					
Programming Features Used	11.7	2.2	1.7	0.4	14.0
Only Manual Controls Used	33.2	5.2	3.8	1.4	12.0
Winter Temperature Settings					
Lower When No One Home					
Yes	45.5	8.0	5.2	2.8	3.3
No	56.0	11.8	9.3	2.5	2.5
Lower During Sleeping Hours					
Yes	47.4	8.2	5.6	2.6	4.0
No	54.0	11.5	8.8	2.7	3.2
Daytime Winter Temperature When Someone is at Home					
Heat is Turned On	93.9	18.2	13.2	5.1	1.4
63 Degrees or Less	3.8	1.1	0.7	0.4	19.6
64 to 66 Degrees	8.3	2.2	1.5	0.7	6.2
67 to 69 Degrees	23.4	6.0	4.1	1.9	4.6
70 Degrees	25.6	4.9	3.6	1.3	6.1
71 to 73 Degrees	14.7	2.1	1.7	0.4	7.2
74 Degrees or More	18.1	2.0	1.6	0.4	9.5
Heat Turned Off	2.1	Q	Q	Q	26.8
Unknown/No Answer	5.5	1.4	1.2	0.2	20.4

See footnotes at end of table.

**Table HC6-9a. Usage Indicators by Northeast Census Region,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.1	1.3	1.4	
Daytime Winter Temperature When No One is at Home					
Heat is Turned On	84.9	18.0	12.9	5.0	1.4
63 Degrees or Less	19.7	4.6	2.8	1.8	7.0
64 to 66 Degrees	16.6	3.9	2.7	1.1	4.8
67 to 69 Degrees	18.0	4.2	3.2	1.1	7.1
70 Degrees	14.8	3.0	2.3	0.7	7.6
71 to 73 Degrees	7.6	1.2	1.0	0.2	15.1
74 Degrees or More	8.2	1.0	0.9	0.1	12.2
Heat Turned Off	10.4	0.2	0.2	Q	16.0
Unknown/No Answer	6.2	1.5	1.3	0.2	18.2
Winter Temperature During Sleeping Hours					
Heat is Turned On	89.1	18.1	13.1	5.1	1.4
63 Degrees or Less	16.4	4.1	2.4	1.6	8.8
64 to 66 Degrees	16.9	3.9	3.0	1.0	5.2
67 to 69 Degrees	19.6	4.5	3.3	1.2	6.7
70 Degrees	17.6	3.3	2.4	0.8	6.2
71 to 73 Degrees	8.4	1.1	0.9	0.2	14.8
74 Degrees or More	10.2	1.2	1.0	0.2	13.4
Heat Turned Off	7.3	0.1	Q	Q	19.2
Unknown/No Answer	5.1	1.4	1.3	0.2	20.8
Air-Conditioning					
Central Air-Conditioning Use					
Use a Central System	47.8	4.4	4.0	0.4	11.1
All Summer	24.6	1.4	1.3	Q	9.1
Quite a Bit	10.4	1.1	1.0	Q	17.3
Only a Few Times	12.4	1.9	1.7	0.3	14.9
Not at All	0.3	Q	Q	Q	40.0
No Central System	53.7	15.3	10.5	4.9	3.3
Use of Set-Back/Clock Thermostat for Cooling					
Programming Features Used	5.0	0.6	0.6	Q	22.2
Only Manual Controls Used	13.5	0.9	0.9	Q	17.8
Used Only for Heating	0.4	Q	Q	Q	45.0
Window Air-Conditioning Use					
Use Window Units	26.5	8.2	6.0	2.2	7.0
All Summer	5.7	0.8	0.6	0.2	16.3
Quite a Bit	6.6	1.8	1.3	0.5	8.4
Only a Few Times	13.5	5.3	3.9	1.4	8.2
Not at All	0.7	0.3	0.2	Q	28.8
No Window Units	75.0	11.6	8.5	3.1	4.2
Hot Water					
Number of Showers/Baths Taken Each Week					
Fewer than 10	28.3	5.8	4.1	1.6	3.5
10 to 20	46.7	9.2	6.6	2.6	2.3
More than 20	26.4	4.7	3.7	1.1	4.1
Not Applicable	0.2	Q	Q	Q	69.9

See footnotes at end of table.

**Table HC6-9a. Usage Indicators by Northeast Census Region,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.1	1.3	1.4	
Hot Water (continued)					
Dishwasher Use					
Each Week					
Use a Dishwasher	50.9	9.6	7.1	2.5	3.9
Less Than 4 Times	28.7	5.5	4.1	1.4	5.2
4 to 6 Times	12.9	2.4	1.7	0.7	6.8
At Least Once Each Day	9.3	1.7	1.3	0.5	13.3
No Dishwasher	50.6	10.2	7.4	2.8	3.7
Loads of Laundry					
Washed Each Week					
Use a Clothes Washer	78.5	15.0	11.0	4.0	2.2
1 Load or Less	5.3	1.3	1.0	0.3	14.1
2 to 9 Loads	29.8	6.2	4.7	1.5	3.6
10 to 15 Loads	10.2	1.9	1.4	0.5	8.2
More than 15 Loads	3.3	0.7	0.5	0.2	13.2
No Washing Machine	22.9	4.7	3.4	1.4	7.1
Clothes Dryer Usage					
Use a Clothes Dryer	72.2	13.2	9.7	3.5	2.3
Every Time Clothes are Washed	57.1	9.3	7.0	2.3	4.1
Some, but not All, Loads	13.0	3.2	2.3	0.9	10.1
Used Infrequently	2.2	0.7	0.4	0.3	14.4
No Dryer	29.3	6.6	4.7	1.8	4.9
Cooking					
Number of Hot Meals					
Cooked in the Home					
3 or More Times a Day	7.0	1.3	1.0	0.3	10.2
2 Times a Day	25.7	4.1	2.7	1.4	6.5
Once a Day	42.2	9.0	6.6	2.4	3.6
A Few Times Each Week	20.4	3.7	2.8	0.9	8.3
About Once a Week	3.1	0.8	0.7	Q	12.6
Less Than Once a Week	3.0	0.7	0.5	0.2	20.7
Conventional Oven Use					
More Than Once a Day	8.3	1.3	0.8	0.5	11.7
Once a Day	20.5	3.9	2.7	1.2	6.3
Between Once a Day					
and Once a Week	34.9	6.4	4.5	1.9	4.2
Once a Week	15.1	3.3	2.6	0.7	4.0
Less Than Once a Week	21.5	4.8	3.7	1.1	5.7
Amount of Food Cooked					
in Microwave Oven					
Use a Microwave Oven	84.2	15.5	11.3	4.3	1.5
Most or All	7.3	1.3	0.9	0.4	12.2
About Half	18.4	2.8	2.1	0.7	8.9
Some or Very Little	22.3	4.0	2.9	1.2	7.4
Only for Defrosting,					
Reheating, or Snacks	36.2	7.4	5.4	2.0	5.4
No Microwave Oven	17.3	4.2	3.2	1.1	6.4

See footnotes at end of table.

Table HC6-9a. Usage Indicators by Northeast Census Region, Million U.S. Households, 1997 (Continued)

Usage Indicators	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.1	1.3	1.4	
Lights					
Outdoor Lights on All Night					
Used	26.3	3.5	2.8	0.7	8.8
Not Used	75.2	16.2	11.6	4.6	2.0
Gas Fireplace Usage During Winter Months					
Use a Gas Fireplace	2.7	Q	Q	Q	26.3
Most Days	1.1	Q	Q	Q	30.6
Almost Once a Week	0.7	Q	Q	Q	39.6
Less Than 4 Times a Month	0.8	Q	Q	Q	59.8
Personal Computer Usage	35.6	6.3	4.4	1.9	5.2
Hours PC Turned On Each Week					
Less Than 2 Hours	8.2	1.5	1.0	0.5	11.5
2 to 15 Hours	17.4	2.8	1.9	0.8	5.4
16 to 40 Hours	6.7	1.6	1.2	0.4	12.3
On All The Time	3.3	0.5	0.3	0.2	19.7
Use of PCs Turned on 16 Hours a Week or More					
Personal Use Only	4.8	0.9	0.6	0.3	16.0
Business Use Only	2.1	0.5	0.3	0.1	20.6
Both Personal and Business	3.1	0.7	0.5	0.2	14.4
Business Use of PCs Turned on 16 Hours a Week or More					
Use to Telecommute	2.1	0.5	0.3	0.1	19.2
Other Business Use	3.1	0.7	0.6	0.2	14.6
Battery Operated Appliances/Tools					
Use Battery Operated Appliances/Tools	44.4	8.5	6.2	2.3	4.0
How Maintained When Not in Use					
Plugged in All The Time	12.5	2.4	1.7	0.7	7.9
Recharged As Needed	27.0	5.3	4.0	1.4	5.5
Both Ways are Used	4.9	0.8	0.6	0.3	10.7
Don't Use Any	57.1	11.2	8.2	3.0	3.0

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• See "Glossary" for definition of terms used in this report. • All temperatures listed are in degrees Fahrenheit.

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

**Table HC6-10a. Usage Indicators by Midwest Census Region,
Million U.S. Households, 1997**

Usage Indicators	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.7	
Total	101.5	24.1	16.9	7.2	NF
Weekday Home Activities					
Home Used for Business					
Yes	7.4	1.7	1.3	0.4	13.5
No	94.1	22.3	15.6	6.7	1.0
Energy-Intensive Activity					
Yes	2.4	0.6	0.4	0.3	15.9
No	99.1	23.4	16.6	6.9	NF
Someone Home All Day					
Yes	51.3	11.6	8.2	3.4	3.3
No	50.1	12.5	8.7	3.8	3.1
Heating					
Thermostat Available During Heating Season					
Yes	86.0	21.9	15.3	6.6	1.3
No	14.7	2.1	1.6	0.6	12.3
Do Not Heat Home	0.8	Q	Q	Q	36.6
Set-Back or Clock Thermostat in Home					
Yes	44.9	10.3	6.4	3.9	8.9
No	56.6	13.7	10.5	3.3	7.2
Use of Set-Back/Clock Thermostat for Heating					
Programming Features Used	11.7	3.2	1.9	1.3	9.5
Only Manual Controls Used	33.2	7.2	4.6	2.6	12.6
Winter Temperature Settings					
Lower When No One Home					
Yes	45.5	10.0	6.5	3.5	4.2
No	56.0	14.1	10.5	3.6	3.2
Lower During Sleeping Hours					
Yes	47.4	9.7	6.4	3.3	4.0
No	54.0	14.4	10.5	3.9	3.0
Daytime Winter Temperature When Someone is at Home					
Heat is Turned On	93.9	23.2	16.2	7.0	0.6
63 Degrees or Less	3.8	0.7	0.5	0.1	18.1
64 to 66 Degrees	8.3	1.5	1.0	0.5	10.4
67 to 69 Degrees	23.4	6.3	4.3	2.0	4.0
70 Degrees	25.6	6.2	4.1	2.1	4.8
71 to 73 Degrees	14.7	5.0	3.7	1.3	6.0
74 Degrees or More	18.1	3.5	2.5	1.0	9.4
Heat Turned Off	2.1	Q	Q	Q	25.8
Unknown/No Answer	5.5	0.9	0.8	Q	16.5

See footnotes at end of table.

**Table HC6-10a. Usage Indicators by Midwest Census Region,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.7	
Daytime Winter Temperature When No One is at Home					
Heat is Turned On	84.9	22.9	15.9	6.9	0.8
63 Degrees or Less	19.7	4.3	2.8	1.5	7.6
64 to 66 Degrees	16.6	4.3	2.8	1.5	4.7
67 to 69 Degrees	18.0	5.2	3.5	1.7	7.3
70 Degrees	14.8	4.0	2.9	1.1	7.8
71 to 73 Degrees	7.6	3.1	2.4	0.7	11.0
74 Degrees or More	8.2	2.0	1.6	0.4	11.3
Heat Turned Off	10.4	0.2	Q	Q	19.1
Unknown/No Answer	6.2	1.0	0.8	Q	16.8
Winter Temperature During Sleeping Hours					
Heat is Turned On	89.1	23.2	16.2	7.0	0.6
63 Degrees or Less	16.4	3.0	2.0	1.0	8.8
64 to 66 Degrees	16.9	4.2	2.7	1.5	4.5
67 to 69 Degrees	19.6	5.7	3.7	2.0	5.9
70 Degrees	17.6	4.7	3.3	1.4	6.8
71 to 73 Degrees	8.4	3.2	2.5	0.6	8.1
74 Degrees or More	10.2	2.4	1.8	0.6	12.0
Heat Turned Off	7.3	Q	Q	Q	13.3
Unknown/No Answer	5.1	0.8	0.7	Q	18.1
Air-Conditioning					
Central Air-Conditioning Use					
Use a Central System	47.8	12.4	8.0	4.3	4.2
All Summer	24.6	4.1	2.5	1.7	9.6
Quite a Bit	10.4	3.6	2.5	1.0	9.4
Only a Few Times	12.4	4.6	3.1	1.6	7.3
Not at All	0.3	Q	Q	Q	38.3
No Central System	53.7	11.7	8.9	2.8	4.5
Use of Set-Back/Clock Thermostat for Cooling					
Programming Features Used	5.0	1.4	0.8	0.7	14.7
Only Manual Controls Used	13.5	2.5	1.5	1.0	14.9
Used Only for Heating	0.4	Q	Q	Q	43.2
Window Air-Conditioning Use					
Use Window Units	26.5	6.6	4.5	2.1	7.7
All Summer	5.7	0.9	0.7	0.2	15.2
Quite a Bit	6.6	1.9	1.4	0.5	12.8
Only a Few Times	13.5	3.5	2.2	1.3	9.0
Not at All	0.7	0.2	Q	Q	27.2
No Window Units	75.0	17.5	12.4	5.1	2.9
Hot Water					
Number of Showers/Baths Taken Each Week					
Fewer than 10	28.3	7.4	5.3	2.1	4.7
10 to 20	46.7	10.9	7.6	3.2	2.8
More than 20	26.4	5.8	4.0	1.8	5.9
Not Applicable	0.2	Q	Q	Q	67.1

See footnotes at end of table.

**Table HC6-10a. Usage Indicators by Midwest Census Region,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.7	
Hot Water (continued)					
Dishwasher Use					
Each Week					
Use a Dishwasher	50.9	11.3	7.7	3.6	3.6
Less Than 4 Times	28.7	6.0	4.1	1.9	5.7
4 to 6 Times	12.9	3.2	2.1	1.1	9.1
At Least Once Each Day	9.3	2.1	1.4	0.7	11.7
No Dishwasher	50.6	12.8	9.3	3.5	3.3
Loads of Laundry					
Washed Each Week					
Use a Clothes Washer	78.5	19.0	12.9	6.1	2.0
1 Load or Less	5.3	1.0	0.8	0.2	13.6
2 to 9 Loads	29.8	6.1	4.1	2.0	4.0
10 to 15 Loads	10.2	3.1	2.2	0.9	8.2
More than 15 Loads	3.3	1.0	0.6	0.4	10.6
No Washing Machine	22.9	5.1	4.0	1.0	7.9
Clothes Dryer Usage					
Use a Clothes Dryer	72.2	18.2	12.3	5.9	2.4
Every Time Clothes are Washed	57.1	14.0	9.6	4.4	2.5
Some, but not All, Loads	13.0	3.8	2.4	1.4	6.9
Used Infrequently	2.2	0.4	0.3	Q	18.0
No Dryer	29.3	5.8	4.6	1.3	7.4
Cooking					
Number of Hot Meals					
Cooked in the Home					
3 or More Times a Day	7.0	1.3	1.0	0.3	9.1
2 Times a Day	25.7	6.2	4.3	1.9	3.9
Once a Day	42.2	10.8	7.1	3.7	3.4
A Few Times Each Week	20.4	4.6	3.5	1.1	5.6
About Once a Week	3.1	0.7	0.6	Q	15.0
Less Than Once a Week	3.0	0.5	0.4	Q	19.6
Conventional Oven Use					
More Than Once a Day	8.3	1.7	1.2	0.5	9.9
Once a Day	20.5	4.8	3.4	1.4	7.3
Between Once a Day and Once a Week	34.9	9.1	6.4	2.8	3.6
Once a Week	15.1	3.2	2.2	1.0	8.1
Less Than Once a Week	21.5	4.9	3.6	1.3	5.6
Amount of Food Cooked					
in Microwave Oven					
Use a Microwave Oven	84.2	20.9	14.4	6.5	1.5
Most or All	7.3	1.7	1.2	0.5	13.2
About Half	18.4	4.6	3.2	1.4	5.6
Some or Very Little	22.3	6.0	4.3	1.7	5.5
Only for Defrosting, Reheating, or Snacks	36.2	8.6	5.6	2.9	6.9
No Microwave Oven	17.3	3.1	2.5	0.6	10.5

See footnotes at end of table.

**Table HC6-10a. Usage Indicators by Midwest Census Region,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.7	
Lights					
Outdoor Lights on All Night					
Used	26.3	6.3	4.8	1.5	5.4
Not Used	75.2	17.8	12.1	5.6	1.8
Gas Fireplace Usage During Winter Months					
Use a Gas Fireplace	2.7	0.9	0.7	0.2	24.8
Most Days	1.1	0.4	0.3	Q	32.3
Almost Once a Week	0.7	Q	Q	Q	38.0
Less Than 4 Times a Month	0.8	Q	Q	Q	57.4
Personal Computer Usage	35.6	9.1	6.4	2.7	4.0
Hours PC Turned On Each Week					
Less Than 2 Hours	8.2	2.3	1.7	0.6	9.3
2 to 15 Hours	17.4	4.3	2.8	1.6	7.1
16 to 40 Hours	6.7	1.8	1.5	0.3	10.1
On All The Time	3.3	0.7	0.4	0.2	16.4
Use of PCs Turned on 16 Hours a Week or More					
Personal Use Only	4.8	1.2	1.0	0.3	13.1
Business Use Only	2.1	0.6	0.5	Q	21.4
Both Personal and Business	3.1	0.6	0.5	0.2	21.9
Business Use of PCs Turned on 16 Hours a Week or More					
Use to Telecommute	2.1	0.4	0.3	Q	21.5
Other Business Use	3.1	0.8	0.6	0.2	22.6
Battery Operated Appliances/Tools					
Use Battery Operated Appliances/Tools	44.4	11.2	7.8	3.4	3.5
How Maintained When Not in Use					
Plugged in All The Time	12.5	3.3	2.4	0.9	8.8
Recharged As Needed	27.0	6.9	4.7	2.2	3.6
Both Ways are Used	4.9	1.0	0.7	0.3	14.5
Don't Use Any	57.1	12.9	9.1	3.8	3.0

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• See "Glossary" for definition of terms used in this report. • All temperatures listed are in degrees Fahrenheit.

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

**Table HC6-11a. Usage Indicators by South Census Region,
Million U.S. Households, 1997**

Usage Indicators	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.2	1.5	1.4	
Total	101.5	35.9	18.7	6.3	10.8	NF
Weekday Home Activities						
Home Used for Business						
Yes	7.4	2.2	1.3	0.3	0.6	13.1
No	94.1	33.7	17.4	6.1	10.2	0.9
Energy-Intensive Activity						
Yes	2.4	0.7	0.5	Q	0.2	25.7
No	99.1	35.1	18.2	6.2	10.7	NF
Someone Home All Day						
Yes	51.3	18.2	9.3	3.3	5.6	2.7
No	50.1	17.7	9.4	3.1	5.2	2.8
Heating						
Thermostat Available During Heating Season						
Yes	86.0	30.3	16.2	5.2	8.9	2.3
No	14.7	5.3	2.2	1.1	1.9	11.8
Do Not Heat Home	0.8	0.3	Q	Q	Q	45.8
Set-Back or Clock Thermostat in Home						
Yes	44.9	15.8	7.9	2.7	5.2	9.4
No	56.6	20.1	10.8	3.6	5.6	7.4
Use of Set-Back/Clock Thermostat for Heating						
Programming Features Used	11.7	3.1	1.6	0.3	1.2	13.8
Only Manual Controls Used	33.2	12.6	6.3	2.4	4.0	10.9
Winter Temperature Settings						
Lower When No One Home						
Yes	45.5	15.3	8.1	2.5	4.7	4.3
No	56.0	20.6	10.6	3.9	6.1	3.2
Lower During Sleeping Hours						
Yes	47.4	16.3	8.5	2.7	5.1	4.2
No	54.0	19.6	10.2	3.6	5.8	3.5
Daytime Winter Temperature When Someone is at Home						
Heat is Turned On	93.9	33.0	17.0	5.9	10.1	1.8
63 Degrees or Less	3.8	0.8	0.4	0.2	0.2	17.6
64 to 66 Degrees	8.3	2.0	1.1	0.4	0.5	13.5
67 to 69 Degrees	23.4	6.5	3.7	1.0	1.7	7.6
70 Degrees	25.6	8.8	4.4	1.8	2.5	5.8
71 to 73 Degrees	14.7	5.4	2.7	0.9	1.8	7.6
74 Degrees or More	18.1	9.6	4.7	1.6	3.4	3.8
Heat Turned Off	2.1	0.8	0.7	Q	Q	28.1
Unknown/No Answer	5.5	2.0	1.0	0.3	0.7	22.8

See footnotes at end of table.

**Table HC6-11a. Usage Indicators by South Census Region,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.2	1.5	1.4	
Daytime Winter Temperature When No One is at Home						
Heat is Turned On	84.9	28.7	15.0	5.2	8.4	3.0
63 Degrees or Less	19.7	5.9	3.1	0.9	1.9	7.6
64 to 66 Degrees	16.6	4.6	2.6	0.9	1.1	7.6
67 to 69 Degrees	18.0	5.9	3.1	1.2	1.6	7.0
70 Degrees	14.8	5.6	2.6	1.2	1.8	7.1
71 to 73 Degrees	7.6	2.5	1.3	0.4	0.8	11.7
74 Degrees or More	8.2	4.3	2.4	0.7	1.2	8.5
Heat Turned Off	10.4	4.9	2.5	0.7	1.6	12.6
Unknown/No Answer	6.2	2.3	1.1	0.4	0.8	21.3
Winter Temperature During Sleeping Hours						
Heat is Turned On	89.1	31.4	16.2	5.6	9.5	2.2
63 Degrees or Less	16.4	4.5	2.5	0.8	1.2	9.5
64 to 66 Degrees	16.9	5.0	2.5	0.9	1.5	5.6
67 to 69 Degrees	19.6	6.4	3.4	1.2	1.9	7.7
70 Degrees	17.6	6.8	3.2	1.4	2.2	6.6
71 to 73 Degrees	8.4	3.2	1.7	0.5	1.0	10.7
74 Degrees or More	10.2	5.4	2.9	0.8	1.7	8.1
Heat Turned Off	7.3	2.7	1.5	0.5	0.7	18.3
Unknown/No Answer	5.1	1.8	0.9	0.3	0.6	23.2
Air-Conditioning						
Central Air-Conditioning Use						
Use a Central System	47.8	25.0	13.4	4.2	7.4	3.2
All Summer	24.6	17.2	8.6	2.8	5.9	5.1
Quite a Bit	10.4	4.3	2.6	0.9	0.8	7.7
Only a Few Times	12.4	3.4	2.1	0.6	0.7	15.9
Not at All	0.3	Q	Q	Q	Q	41.1
No Central System	53.7	10.9	5.3	2.1	3.4	5.9
Use of Set-Back/Clock Thermostat for Cooling						
Programming Features Used	5.0	2.2	1.0	0.3	1.0	13.7
Only Manual Controls Used	13.5	8.8	4.3	1.5	3.0	10.9
Used Only for Heating	0.4	Q	Q	Q	Q	46.3
Window Air-Conditioning Use						
Use Window Units	26.5	8.7	4.1	1.9	2.7	6.2
All Summer	5.7	3.4	1.5	0.7	1.2	11.1
Quite a Bit	6.6	2.3	1.1	0.4	0.8	11.6
Only a Few Times	13.5	3.0	1.4	0.8	0.7	9.9
Not at All	0.7	Q	Q	Q	Q	35.6
No Window Units	75.0	27.2	14.6	4.4	8.1	2.1
Hot Water						
Number of Showers/Baths Taken Each Week						
Fewer than 10	28.3	9.1	4.5	1.8	2.8	5.0
10 to 20	46.7	16.2	8.8	2.8	4.5	3.5
More than 20	26.4	10.6	5.3	1.7	3.5	4.8
Not Applicable	0.2	Q	Q	Q	Q	71.9

See footnotes at end of table.

**Table HC6-11a. Usage Indicators by South Census Region,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.2	1.5	1.4	
Hot Water (continued)						
Dishwasher Use Each Week						
Use a Dishwasher	50.9	18.5	10.0	2.7	5.8	4.0
Less Than 4 Times	28.7	10.8	6.1	1.4	3.3	5.6
4 to 6 Times	12.9	4.2	2.2	0.8	1.2	8.0
At Least Once Each Day	9.3	3.5	1.7	0.5	1.3	8.8
No Dishwasher	50.6	17.4	8.7	3.7	5.0	4.0
Loads of Laundry Washed Each Week						
Use a Clothes Washer	78.5	29.4	15.6	5.5	8.3	2.1
1 Load or Less	5.3	1.8	1.2	0.2	0.4	15.6
2 to 9 Loads	29.8	11.8	6.8	2.0	3.0	4.9
10 to 15 Loads	10.2	3.6	1.6	0.7	1.3	8.5
More than 15 Loads	3.3	1.2	0.4	0.2	0.5	20.1
No Washing Machine	22.9	6.5	3.1	0.9	2.5	9.2
Clothes Dryer Usage						
Use a Clothes Dryer	72.2	26.6	13.6	5.1	7.9	2.5
Every Time Clothes are Washed	57.1	22.4	11.4	4.1	6.9	3.2
Some, but not All, Loads	13.0	3.6	1.8	1.0	0.8	10.3
Used Infrequently	2.2	0.6	0.4	Q	Q	23.6
No Dryer	29.3	9.3	5.1	1.2	3.0	7.2
Cooking						
Number of Hot Meals Cooked in the Home						
3 or More Times a Day	7.0	2.6	1.4	0.4	0.8	10.9
2 Times a Day	25.7	9.3	4.7	1.7	2.9	5.7
Once a Day	42.2	13.3	6.6	2.5	4.1	4.8
A Few Times Each Week	20.4	8.3	4.8	1.2	2.3	8.6
About Once a Week	3.1	1.2	0.5	0.2	0.5	13.0
Less Than Once a Week	3.0	1.2	0.6	0.2	0.3	17.3
Conventional Oven Use						
More Than Once a Day	8.3	3.7	1.7	1.0	1.0	12.5
Once a Day	20.5	8.4	4.2	1.8	2.4	6.5
Between Once a Day and Once a Week	34.9	11.8	6.2	1.8	3.8	4.7
Once a Week	15.1	5.6	3.1	0.9	1.6	7.2
Less Than Once a Week	21.5	5.9	3.2	0.8	1.9	7.9
Amount of Food Cooked in Microwave Oven						
Use a Microwave Oven	84.2	29.6	15.7	5.0	8.9	2.8
Most or All	7.3	2.6	1.3	0.3	0.9	16.7
About Half	18.4	6.4	3.3	1.2	1.8	5.9
Some or Very Little	22.3	7.2	4.1	1.2	1.8	8.1
Only for Defrosting, Reheating, or Snacks	36.2	13.5	7.0	2.2	4.3	5.7
No Microwave Oven	17.3	6.3	3.0	1.3	1.9	12.0

See footnotes at end of table.

**Table HC6-11a. Usage Indicators by South Census Region,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.2	1.5	1.4	
Lights						
Outdoor Lights on All Night						
Used	26.3	11.0	5.3	2.3	3.5	5.1
Not Used	75.2	24.8	13.4	4.1	7.3	2.2
Gas Fireplace Usage During Winter Months						
Use a Gas Fireplace	2.7	1.2	0.6	0.3	0.4	25.7
Most Days	1.1	0.5	0.2	Q	Q	23.6
Almost Once a Week	0.7	0.4	Q	Q	Q	40.4
Less Than 4 Times a Month	0.8	0.4	Q	Q	Q	49.3
Personal Computer Usage	35.6	11.1	6.0	1.6	3.5	5.5
Hours PC Turned On Each Week						
Less Than 2 Hours	8.2	2.6	1.4	0.4	0.8	10.6
2 to 15 Hours	17.4	5.7	3.0	0.9	1.8	7.4
16 to 40 Hours	6.7	1.6	1.0	0.1	0.5	12.1
On All The Time	3.3	1.3	0.7	0.1	0.4	18.8
Use of PCs Turned on 16 Hours a Week or More						
Personal Use Only	4.8	1.5	0.8	0.1	0.5	15.7
Business Use Only	2.1	0.4	0.3	Q	Q	23.9
Both Personal and Business	3.1	1.0	0.6	Q	0.3	21.6
Business Use of PCs Turned on 16 Hours a Week or More						
Use to Telecommute	2.1	0.4	0.2	Q	Q	24.7
Other Business Use	3.1	0.9	0.7	Q	Q	20.6
Battery Operated Appliances/Tools						
Use Battery Operated Appliances/Tools	44.4	15.0	7.7	2.7	4.5	3.5
How Maintained When Not in Use						
Plugged in All The Time	12.5	4.5	2.4	0.8	1.3	8.4
Recharged As Needed	27.0	9.0	4.7	1.7	2.6	5.7
Both Ways are Used	4.9	1.5	0.6	0.2	0.6	17.6
Don't Use Any	57.1	20.9	11.0	3.6	6.3	2.6

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• See "Glossary" for definition of terms used in this report. • All temperatures listed are in degrees Fahrenheit.

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

**Table HC6-12a. Usage Indicators by West Census Region,
Million U.S. Households, 1997**

Usage Indicators	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
Total	101.5	21.8	6.2	15.6	NF
Weekday Home Activities					
Home Used for Business					
Yes	7.4	2.0	0.6	1.3	9.8
No	94.1	19.8	5.5	14.3	0.9
Energy-Intensive Activity					
Yes	2.4	0.7	0.2	0.5	18.9
No	99.1	21.2	6.0	15.2	0.8
Someone Home All Day					
Yes	51.3	11.1	3.1	8.0	3.2
No	50.1	10.7	3.1	7.6	3.3
Heating					
Thermostat Available During Heating Season					
Yes	86.0	17.7	5.6	12.1	1.9
No	14.7	3.7	0.6	3.1	7.7
Do Not Heat Home	0.8	0.5	Q	0.5	18.3
Set-Back or Clock Thermostat in Home					
Yes	44.9	11.4	3.2	8.2	5.5
No	56.6	10.4	3.0	7.5	5.5
Use of Set-Back/Clock Thermostat for Heating					
Programming Features Used	11.7	3.2	1.0	2.2	11.3
Only Manual Controls Used	33.2	8.2	2.3	5.9	8.6
Winter Temperature Settings					
Lower When No One Home					
Yes	45.5	12.3	3.1	9.2	3.2
No	56.0	9.6	3.1	6.4	3.5
Lower During Sleeping Hours					
Yes	47.4	13.2	3.3	9.9	2.8
No	54.0	8.6	2.9	5.7	3.5
Daytime Winter Temperature When Someone is at Home					
Heat is Turned On	93.9	19.4	5.9	13.5	1.1
63 Degrees or Less	3.8	1.2	0.3	1.0	15.9
64 to 66 Degrees	8.3	2.6	0.5	2.1	11.5
67 to 69 Degrees	23.4	4.6	1.3	3.3	5.7
70 Degrees	25.6	5.7	1.6	4.1	4.6
71 to 73 Degrees	14.7	2.3	1.0	1.3	7.8
74 Degrees or More	18.1	3.0	1.2	1.8	8.8
Heat Turned Off	2.1	1.3	0.1	1.1	17.6
Unknown/No Answer	5.5	1.2	Q	1.0	15.0

See footnotes at end of table.

**Table HC6-12a. Usage Indicators by West Census Region,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
Daytime Winter Temperature When No One is at Home					
Heat is Turned On	84.9	15.4	5.4	10.0	1.5
63 Degrees or Less	19.7	4.9	1.2	3.7	8.0
64 to 66 Degrees	16.6	3.7	1.3	2.4	7.3
67 to 69 Degrees	18.0	2.7	0.9	1.8	8.3
70 Degrees	14.8	2.3	0.9	1.4	5.7
71 to 73 Degrees	7.6	0.8	0.5	0.3	11.2
74 Degrees or More	8.2	1.0	0.5	0.5	15.5
Heat Turned Off	10.4	5.1	0.6	4.5	7.6
Unknown/No Answer	6.2	1.3	0.2	1.1	14.4
Winter Temperature During Sleeping Hours					
Heat is Turned On	89.1	16.4	5.6	10.8	1.3
63 Degrees or Less	16.4	4.8	1.2	3.6	6.9
64 to 66 Degrees	16.9	3.8	1.3	2.5	7.0
67 to 69 Degrees	19.6	2.9	1.0	1.9	9.5
70 Degrees	17.6	2.8	1.2	1.6	6.8
71 to 73 Degrees	8.4	0.9	0.4	0.5	13.2
74 Degrees or More	10.2	1.2	0.5	0.7	14.4
Heat Turned Off	7.3	4.4	0.4	4.0	8.7
Unknown/No Answer	5.1	1.0	Q	0.9	14.1
Air-Conditioning					
Central Air-Conditioning Use					
Use a Central System	47.8	6.0	2.1	3.9	7.8
All Summer	24.6	2.0	1.0	0.9	9.5
Quite a Bit	10.4	1.5	0.5	0.9	14.2
Only a Few Times	12.4	2.4	0.6	1.9	13.7
Not at All	0.3	0.2	Q	Q	35.7
No Central System	53.7	15.8	4.1	11.7	3.8
Use of Set-Back/Clock Thermostat for Cooling					
Programming Features Used	5.0	0.7	0.3	0.4	16.4
Only Manual Controls Used	13.5	1.3	0.5	0.8	16.4
Used Only for Heating	0.4	Q	Q	Q	45.5
Window Air-Conditioning Use					
Use Window Units	26.5	3.0	1.0	2.1	10.8
All Summer	5.7	0.5	0.1	0.3	17.5
Quite a Bit	6.6	0.7	0.2	0.4	17.7
Only a Few Times	13.5	1.8	0.5	1.2	11.8
Not at All	0.7	Q	Q	Q	34.9
No Window Units	75.0	18.8	5.2	13.6	2.2
Hot Water					
Number of Showers/Baths Taken Each Week					
Fewer than 10	28.3	6.1	1.7	4.4	5.2
10 to 20	46.7	10.5	3.1	7.4	3.3
More than 20	26.4	5.2	1.4	3.8	5.6
Not Applicable	0.2	Q	Q	Q	70.6

See footnotes at end of table.

**Table HC6-12a. Usage Indicators by West Census Region,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
Hot Water (continued)					
Dishwasher Use					
Each Week					
Use a Dishwasher	50.9	11.6	3.5	8.1	4.5
Less Than 4 Times	28.7	6.4	1.9	4.6	6.2
4 to 6 Times	12.9	3.1	1.0	2.1	8.5
At Least Once Each Day	9.3	2.0	0.7	1.3	10.5
No Dishwasher	50.6	10.2	2.6	7.6	5.1
Loads of Laundry					
Washed Each Week					
Use a Clothes Washer	78.5	15.2	4.7	10.4	3.4
1 Load or Less	5.3	1.1	0.2	0.9	12.6
2 to 9 Loads	29.8	5.7	1.6	4.1	4.4
10 to 15 Loads	10.2	1.7	0.6	1.0	11.0
More than 15 Loads	3.3	0.5	0.2	0.3	18.3
No Washing Machine	22.9	6.6	1.5	5.2	9.1
Clothes Dryer Usage					
Use a Clothes Dryer	72.2	14.2	4.3	9.9	3.9
Every Time Clothes are Washed	57.1	11.3	3.3	8.1	4.6
Some, but not All, Loads	13.0	2.4	0.8	1.6	9.1
Used Infrequently	2.2	0.5	0.3	0.2	16.8
No Dryer	29.3	7.6	1.8	5.8	8.1
Cooking					
Number of Hot Meals					
Cooked in the Home					
3 or More Times a Day	7.0	1.9	0.6	1.3	11.4
2 Times a Day	25.7	6.1	1.7	4.3	5.8
Once a Day	42.2	9.1	2.7	6.5	4.5
A Few Times Each Week	20.4	3.8	0.9	2.8	6.1
About Once a Week	3.1	0.4	Q	0.3	18.5
Less Than Once a Week	3.0	0.6	0.1	0.5	21.6
Conventional Oven Use					
More Than Once a Day	8.3	1.5	0.3	1.2	12.9
Once a Day	20.5	3.5	1.0	2.5	5.8
Between Once a Day and Once a Week	34.9	7.5	2.3	5.2	4.8
Once a Week	15.1	3.0	0.9	2.1	6.5
Less Than Once a Week	21.5	5.9	1.5	4.3	5.4
Amount of Food Cooked					
in Microwave Oven					
Use a Microwave Oven	84.2	18.2	5.2	13.0	1.5
Most or All	7.3	1.7	0.3	1.4	11.6
About Half	18.4	4.6	1.3	3.4	6.5
Some or Very Little	22.3	5.1	1.6	3.5	6.6
Only for Defrosting, Reheating, or Snacks	36.2	6.7	2.0	4.8	5.0
No Microwave Oven	17.3	3.6	1.0	2.7	8.1

See footnotes at end of table.

**Table HC6-12a. Usage Indicators by West Census Region,
Million U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
Lights					
Outdoor Lights on All Night					
Used	26.3	5.5	1.9	3.5	7.3
Not Used	75.2	16.4	4.2	12.1	2.6
Gas Fireplace Usage During Winter Months					
Use a Gas Fireplace	2.7	0.4	0.2	0.2	28.1
Most Days	1.1	0.2	Q	Q	34.9
Almost Once a Week	0.7	Q	Q	Q	40.0
Less Than 4 Times a Month	0.8	Q	Q	Q	60.4
Personal Computer Usage	35.6	9.0	2.5	6.6	5.4
Hours PC Turned On Each Week					
Less Than 2 Hours	8.2	1.8	0.5	1.3	7.1
2 to 15 Hours	17.4	4.6	1.4	3.2	7.0
16 to 40 Hours	6.7	1.7	0.4	1.3	12.0
On All The Time	3.3	0.9	0.1	0.7	15.5
Use of PCs Turned on 16 Hours a Week or More					
Personal Use Only	4.8	1.2	0.3	0.9	13.6
Business Use Only	2.1	0.7	0.2	0.5	21.7
Both Personal and Business	3.1	0.8	Q	0.7	16.7
Business Use of PCs Turned on 16 Hours a Week or More					
Use to Telecommute	2.1	0.8	Q	0.7	14.5
Other Business Use	3.1	0.7	0.1	0.5	19.2
Battery Operated Appliances/Tools					
Use Battery Operated Appliances/Tools	44.4	9.7	2.9	6.8	4.2
How Maintained When Not in Use					
Plugged in All The Time	12.5	2.3	0.9	1.4	7.2
Recharged As Needed	27.0	5.8	1.7	4.1	5.7
Both Ways are Used	4.9	1.6	0.3	1.3	10.3
Don't Use Any	57.1	12.1	3.3	8.8	3.4

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• See "Glossary" for definition of terms used in this report. • All temperatures listed are in degrees Fahrenheit.

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

1997 Housing Characteristics Tables

Usage Indicators Tables

(Percent of U.S. Households; 48 pages, 139 kb)

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These data are from the 1997 Residential Energy Consumption Survey (RECS) which provides information on the use of energy in residential housing units in the United States. The RECS is a national statistical survey that collects data for occupied primary housing units. RECS was first conducted in 1978; the sixth and most recent survey was conducted in 1997 RECS. The data were collected from a sample of 5,900 housing units statistically selected to represent the 101.5 million units in the United States. The 1997 data are available for the four Census regions, the nine Census divisions, and for the four most populous States--California, Florida, New York, and Texas.

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**Table HC6-1b. Usage Indicators by Climate Zone,
Percent of U.S. Households, 1997**

Usage Indicators	Total	Climate Zone ¹					RSE Row Factors	
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD		
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD			
RSE Column Factor:	0.5	1.4	1.0	1.1	1.2	1.1		
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Weekday Home Activities								
Home Used for Business								
Yes	7.2	11.3	6.6	7.8	7.8	5.3		12.2
No	92.8	88.7	93.4	92.2	92.2	94.7		1.7
Energy-Intensive Activity								
Yes	2.4	1.7	3.0	1.9	2.5	2.2		21.4
No	97.6	98.3	97.0	98.1	97.5	97.8		NE
Someone Home All Day								
Yes	50.6	47.2	49.1	52.0	50.5	52.5		2.8
No	49.4	52.8	50.9	48.0	49.5	47.5		2.8
Heating								
Thermostat Available During Heating Season								
Yes	84.7	88.9	91.0	83.1	79.6	81.2		1.7
No	14.5	11.1	9.0	16.7	19.7	16.0		10.2
Do Not Heat Home	0.8	Q	Q	Q	Q	2.8		27.4
Set-Back or Clock Thermostat in Home								
Yes	44.2	33.4	42.9	46.8	43.4	48.5		7.6
No	55.8	66.6	57.1	53.2	56.6	51.5		5.8
Use of Set-Back/Clock Thermostat for Heating								
Programming Features Used	11.5	13.7	11.6	13.1	9.3	10.8		10.6
Only Manual Controls Used	32.7	19.7	31.3	33.7	34.1	37.7		10.0
Winter Temperature Settings								
Lower When No One Home								
Yes	44.8	48.3	42.6	42.7	52.1	41.8		3.6
No	55.2	51.7	57.4	57.3	47.9	58.2		3.0
Lower During Sleeping Hours								
Yes	46.8	50.8	41.3	45.1	55.4	46.1		3.8
No	53.2	49.2	58.7	54.9	44.6	53.9		3.5
Daytime Winter Temperature When Someone is at Home								
Heat is Turned On	92.5	97.7	96.0	92.5	91.0	87.2		1.2
63 Degrees or Less	3.8	4.1	3.7	4.3	4.8	2.3		17.8
64 to 66 Degrees	8.1	8.1	8.7	8.2	10.4	5.4		9.8
67 to 69 Degrees	23.0	31.7	28.2	23.4	21.2	14.1		5.7
70 Degrees	25.3	30.4	25.2	26.2	25.2	22.3		5.2
71 to 73 Degrees	14.5	13.5	17.7	13.3	11.6	14.8		7.0
74 Degrees or More	17.8	9.9	12.6	17.1	17.8	28.3		7.2
Heat Turned Off	2.1	Q	Q	Q	5.6	3.8		20.8
Unknown/No Answer	5.4	Q	3.7	7.0	3.4	9.0		17.3

See footnotes at end of table.

**Table HC6-1b. Usage Indicators by Climate Zone,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.4	1.0	1.1	1.2	1.1	
Daytime Winter Temperature							
When No One is at Home							
Heat is Turned On	83.7	97.1	93.5	88.6	74.4	68.8	1.5
63 Degrees or Less	19.4	24.1	20.2	19.5	22.0	14.1	7.2
64 to 66 Degrees	16.3	20.6	19.2	17.2	14.9	11.2	5.5
67 to 69 Degrees	17.8	23.6	21.5	20.8	13.9	10.9	6.8
70 Degrees	14.6	16.7	15.0	16.0	12.1	13.9	7.4
71 to 73 Degrees	7.5	8.0	10.6	6.8	4.6	6.5	11.6
74 Degrees or More	8.1	4.1	7.0	8.2	6.8	12.2	11.2
Heat Turned Off	10.2	Q	2.1	4.2	21.1	21.1	10.8
Unknown/No Answer	6.1	Q	4.4	7.2	4.6	10.1	14.9
Winter Temperature							
During Sleeping Hours							
Heat is Turned On	87.8	97.4	95.4	89.9	79.1	79.9	1.5
63 Degrees or Less	16.2	22.3	15.8	16.9	19.7	10.3	7.8
64 to 66 Degrees	16.6	22.5	18.2	17.8	13.4	13.7	5.8
67 to 69 Degrees	19.3	23.1	23.5	20.9	16.9	12.9	6.8
70 Degrees	17.3	17.9	18.6	18.1	14.7	17.1	6.7
71 to 73 Degrees	8.3	7.6	10.5	6.6	6.3	9.1	10.7
74 Degrees or More	10.1	4.0	8.7	9.5	8.1	16.8	11.6
Heat Turned Off	7.1	Q	1.1	3.1	18.1	11.9	16.5
Unknown/No Answer	5.0	Q	3.5	7.0	2.8	8.2	17.7
Air-Conditioning							
Central Air-Conditioning Use							
Use a Central System	47.1	31.1	37.7	46.2	43.8	69.5	6.0
All Summer	24.3	4.7	11.7	22.6	24.4	50.0	9.4
Quite a Bit	10.3	11.0	10.1	11.8	8.5	10.2	10.5
Only a Few Times	12.2	15.4	15.6	11.6	10.3	8.8	12.9
Not at All	0.3	Q	Q	Q	Q	Q	39.3
No Central System	52.9	68.9	62.3	53.8	56.2	30.5	5.1
Use of Set-Back/Clock							
Thermostat for Cooling							
Programming Features Used	4.9	3.7	3.7	6.0	2.1	8.2	15.2
Only Manual Controls Used	13.3	3.5	7.5	12.4	12.0	26.8	13.9
Used Only for Heating	0.4	Q	Q	0.7	Q	Q	41.1
Window Air-Conditioning Use							
Use Window Units	26.1	26.2	29.2	33.2	19.3	20.9	7.6
All Summer	5.6	1.8	4.1	6.3	5.5	8.3	14.9
Quite a Bit	6.5	7.0	6.9	8.9	4.9	4.8	12.0
Only a Few Times	13.3	16.6	16.9	17.4	8.6	7.4	9.2
Not at All	0.7	Q	1.3	Q	Q	Q	28.0
No Window Units	73.9	73.8	70.8	66.8	80.7	79.1	2.6
Hot Water							
Number of Showers/Baths							
Taken Each Week							
Fewer than 10	27.9	34.5	28.4	29.6	25.8	24.4	4.7
10 to 20	46.0	44.6	48.5	44.2	47.4	44.1	3.0
More than 20	26.0	20.9	23.1	26.0	26.7	31.1	4.9
Not Applicable	0.2	Q	Q	Q	Q	Q	68.7

See footnotes at end of table.

**Table HC6-1b. Usage Indicators by Climate Zone,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.4	1.0	1.1	1.2	1.1	
Hot Water (continued)							
Dishwasher Use							
Each Week							
Use a Dishwasher	50.2	47.4	51.6	50.3	46.6	52.5	4.2
Less Than 4 Times	28.3	24.5	26.6	29.5	27.9	31.0	5.2
4 to 6 Times	12.7	15.1	14.5	11.9	10.7	12.1	8.3
At Least Once Each Day	9.2	7.7	10.5	8.9	8.1	9.4	9.9
No Dishwasher	49.8	52.6	48.4	49.7	53.4	47.5	4.2
Loads of Laundry							
Washed Each Week							
Use a Clothes Washer	77.4	85.5	78.3	77.4	72.6	77.0	2.4
1 Load or Less	5.2	5.4	4.5	7.2	4.3	4.7	13.7
2 to 9 Loads	29.4	29.7	27.5	29.1	31.1	30.4	4.5
10 to 15 Loads	10.0	13.8	11.2	9.5	8.1	9.1	9.0
More than 15 Loads	3.3	4.2	3.8	3.1	2.4	3.2	15.4
No Washing Machine	22.6	14.5	21.7	22.6	27.4	23.0	8.8
Clothes Dryer Usage							
Use a Clothes Dryer	71.2	82.6	73.5	70.2	66.1	68.8	2.7
Every Time Clothes are Washed	56.3	53.8	57.8	54.3	54.6	58.8	3.6
Some, but not All, Loads	12.8	24.4	13.6	13.8	9.7	8.4	8.4
Used Infrequently	2.1	4.5	2.1	2.1	1.8	1.6	17.9
No Dryer	28.8	17.4	26.5	29.8	33.9	31.2	7.1
Cooking							
Number of Hot Meals							
Cooked in the Home							
3 or More Times a Day	6.9	4.1	6.3	7.0	7.2	8.7	10.5
2 Times a Day	25.3	28.8	24.5	23.9	27.3	24.4	5.7
Once a Day	41.6	44.3	45.1	42.5	35.8	40.0	4.1
A Few Times Each Week	20.1	18.5	17.8	19.8	23.9	20.4	7.9
About Once a Week	3.0	1.9	3.5	3.6	2.0	3.3	14.9
Less Than Once a Week	3.0	2.4	2.7	3.0	3.5	3.1	19.4
Conventional Oven Use							
More Than Once a Day	8.1	7.2	7.3	7.6	10.0	8.5	10.6
Once a Day	20.2	19.1	19.9	19.1	20.4	22.0	6.9
Between Once a Day and Once a Week	34.4	42.7	35.8	33.0	33.2	31.5	4.0
Once a Week	14.9	12.0	15.1	16.7	12.7	16.1	6.4
Less Than Once a Week	21.2	17.9	21.2	22.5	21.9	20.7	6.3
Amount of Food Cooked in Microwave Oven							
Use a Microwave Oven	83.0	90.5	83.9	83.6	81.3	79.5	1.6
Most or All	7.2	7.5	7.3	5.5	9.3	7.0	13.3
About Half	18.2	21.2	17.6	17.7	19.5	16.9	6.8
Some or Very Little	21.9	24.1	24.3	22.7	19.5	19.3	7.2
Only for Defrosting, Reheating, or Snacks	35.6	37.7	34.7	37.7	32.9	36.2	5.4
No Microwave Oven	17.0	9.5	16.1	16.4	18.7	20.5	8.8

See footnotes at end of table.

**Table HC6-1b. Usage Indicators by Climate Zone,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Climate Zone ¹					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.4	1.0	1.1	1.2	1.1	
Lights							
Outdoor Lights on All Night							
Used	25.9	17.4	25.5	27.8	20.4	33.0	6.5
Not Used	74.1	82.6	74.5	72.2	79.6	67.0	2.1
Gas Fireplace Usage During Winter Months							
Use a Gas Fireplace	2.7	3.1	3.0	1.3	2.8	3.2	24.7
Most Days	1.1	2.0	1.0	1.0	Q	1.5	28.7
Almost Once a Week	0.7	Q	0.9	Q	Q	Q	32.2
Less Than 4 Times a Month	0.8	Q	Q	Q	Q	Q	58.8
Personal Computer Usage	35.1	40.2	37.3	33.9	34.9	31.4	5.2
Hours PC Turned On Each Week							
Less Than 2 Hours	8.1	8.5	8.9	9.7	7.4	5.7	9.5
2 to 15 Hours	17.1	20.0	17.5	14.9	17.8	17.2	7.5
16 to 40 Hours	6.6	7.7	8.2	6.3	6.1	4.8	11.4
On All The Time	3.3	4.0	2.7	3.0	3.6	3.7	16.6
Use of PCs Turned on 16 Hours a Week or More							
Personal Use Only	4.7	5.6	5.6	4.1	3.8	4.6	13.9
Business Use Only	2.1	2.4	2.5	2.3	2.5	0.9	21.5
Both Personal and Business	3.1	3.7	2.8	2.9	3.4	3.0	18.9
Business Use of PCs Turned on 16 Hours a Week or More							
Use to Telecommute	2.1	2.0	2.2	1.9	3.0	1.2	19.2
Other Business Use	3.1	4.1	3.0	3.3	2.9	2.7	19.9
Battery Operated Appliances/Tools							
Use Battery Operated Appliances/Tools	43.7	51.3	45.4	43.7	41.0	41.0	3.4
How Maintained When Not in Use							
Plugged in All The Time	12.3	13.6	14.0	12.1	10.2	11.6	8.0
Recharged As Needed	26.6	32.9	26.5	27.9	23.1	25.9	4.9
Both Ways are Used	4.8	4.9	4.8	3.7	7.7	3.5	13.1
Don't Use Any	56.3	48.7	54.6	56.3	59.0	59.0	2.7

¹ One of five climatically distinct areas, determined according to the 30-year average (1961-1990) of the annual heating and cooling degree-days. For this report, the heating or cooling degree-days are a measure of how cold or how hot a location is over a period of one year, relative to a base temperature of 65 degrees Fahrenheit. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station. NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.
Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report. • All temperatures listed are in degrees Fahrenheit.

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

**Table HC6-2b. Usage Indicators by Year of Construction,
Percent of U.S. Households, 1997**

Usage Indicators	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.6	1.2	1.0	1.1	1.2	0.9	
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Weekday Home Activities								
Home Used for Business								
Yes	7.2	8.9	8.2	6.5	7.1	5.1	7.7	13.0
No	92.8	91.1	91.8	93.5	92.9	94.9	92.3	1.1
Energy-Intensive Activity								
Yes	2.4	2.2	1.8	2.4	2.3	2.9	2.5	21.1
No	97.6	97.8	98.2	97.6	97.7	97.1	97.5	NE
Someone Home All Day								
Yes	50.6	48.7	45.6	48.2	51.3	57.9	52.4	3.4
No	49.4	51.3	54.4	51.8	48.7	42.1	47.6	3.5
Heating								
Thermostat Available During Heating Season								
Yes	84.7	93.2	92.0	87.1	85.8	82.5	76.1	1.5
No	14.5	5.9	7.8	12.0	13.3	16.7	23.1	10.3
Do Not Heat Home	0.8	Q	Q	0.9	Q	Q	0.9	37.1
Set-Back or Clock Thermostat in Home								
Yes	44.2	56.6	56.2	44.1	45.4	37.1	35.2	5.6
No	55.8	43.4	43.8	55.9	54.6	62.9	64.8	4.6
Use of Set-Back/Clock Thermostat for Heating								
Programming Features Used	11.5	20.0	16.4	9.2	9.4	9.3	9.3	10.0
Only Manual Controls Used	32.7	36.6	39.8	34.9	36.0	27.8	25.9	7.3
Winter Temperature Settings								
Lower When No One Home								
Yes	44.8	46.5	45.8	45.9	46.1	44.3	42.4	3.9
No	55.2	53.5	54.2	54.1	53.9	55.7	57.6	3.2
Lower During Sleeping Hours								
Yes	46.8	47.1	48.9	47.5	47.7	50.8	42.4	3.7
No	53.2	52.9	51.1	52.5	52.3	49.2	57.6	3.3
Daytime Winter Temperature When Someone is at Home								
Heat is Turned On	92.5	96.0	94.4	92.1	92.4	91.2	91.0	1.1
63 Degrees or Less	3.8	4.5	3.0	3.1	4.2	3.3	4.4	17.7
64 to 66 Degrees	8.1	8.0	7.4	9.1	5.9	8.2	9.1	11.7
67 to 69 Degrees	23.0	25.2	22.1	24.3	21.4	23.4	22.6	6.3
70 Degrees	25.3	23.6	25.3	24.7	24.9	24.3	26.8	5.7
71 to 73 Degrees	14.5	16.7	13.6	13.3	15.8	15.5	14.1	7.4
74 Degrees or More	17.8	18.0	23.0	17.6	20.2	16.5	14.0	7.7
Heat Turned Off	2.1	Q	2.5	2.9	2.4	2.5	1.1	26.2
Unknown/No Answer	5.4	2.4	3.1	5.0	5.2	6.3	7.8	17.6

See footnotes at end of table.

**Table HC6-2b. Usage Indicators by Year of Construction,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.6	1.2	1.0	1.1	1.2	0.9	
Daytime Winter Temperature								
When No One is at Home								
Heat is Turned On	83.7	89.6	84.9	81.3	81.6	80.7	84.9	1.7
63 Degrees or Less	19.4	20.0	17.1	19.7	20.9	17.9	20.4	7.2
64 to 66 Degrees	16.3	13.8	17.9	17.6	13.3	13.7	18.0	7.5
67 to 69 Degrees	17.8	23.2	18.0	16.8	16.0	18.6	16.9	7.5
70 Degrees	14.6	15.4	14.6	12.9	14.7	13.6	15.9	8.0
71 to 73 Degrees	7.5	8.1	6.8	6.6	7.0	10.3	7.2	12.0
74 Degrees or More	8.1	9.1	10.4	7.7	9.7	6.5	6.5	11.7
Heat Turned Off	10.2	7.5	11.4	12.4	12.1	13.8	6.4	10.6
Unknown/No Answer	6.1	2.9	3.7	6.3	6.3	5.5	8.7	15.9
Winter Temperature								
During Sleeping Hours								
Heat is Turned On	87.8	91.6	90.3	86.2	87.4	85.3	87.5	1.3
63 Degrees or Less	16.2	14.2	15.9	15.7	16.3	17.0	17.0	7.9
64 to 66 Degrees	16.6	16.8	16.7	19.1	14.0	16.6	16.1	6.6
67 to 69 Degrees	19.3	22.8	18.8	18.7	17.9	19.0	19.7	7.2
70 Degrees	17.3	17.2	17.8	16.1	18.0	15.5	18.5	7.4
71 to 73 Degrees	8.3	9.1	7.5	7.8	9.1	9.1	8.0	10.4
74 Degrees or More	10.1	11.5	13.5	8.7	12.2	8.1	8.3	11.7
Heat Turned Off	7.1	5.7	6.9	9.2	8.1	9.1	4.9	12.2
Unknown/No Answer	5.0	2.7	2.8	4.6	4.5	5.6	7.6	18.3
Air-Conditioning								
Central Air-Conditioning Use								
Use a Central System	47.1	77.6	74.7	55.4	46.0	36.7	18.8	4.1
All Summer	24.3	43.2	41.0	28.6	24.5	16.9	7.5	7.0
Quite a Bit	10.3	18.1	15.4	12.2	8.7	7.6	5.1	10.6
Only a Few Times	12.2	16.1	18.0	14.3	12.1	12.2	5.8	10.8
Not at All	0.3	Q	Q	Q	Q	Q	Q	40.3
No Central System	52.9	22.4	25.3	44.6	54.0	63.3	81.2	4.2
Use of Set-Back/Clock Thermostat for Cooling								
Programming Features Used	4.9	11.6	10.3	4.3	4.1	2.8	0.9	16.0
Only Manual Controls Used	13.3	22.8	22.9	15.2	13.5	8.7	4.6	11.5
Used Only for Heating	0.4	Q	Q	Q	Q	Q	Q	45.4
Window Air-Conditioning Use								
Use Window Units	26.1	8.7	11.4	20.7	25.7	35.9	40.7	7.5
All Summer	5.6	2.9	2.0	5.8	5.6	7.9	7.5	14.8
Quite a Bit	6.5	2.4	2.3	5.0	6.7	9.2	10.3	13.4
Only a Few Times	13.3	3.4	6.5	9.7	12.7	18.1	21.7	10.4
Not at All	0.7	Q	Q	Q	Q	Q	1.2	28.8
No Window Units	73.9	91.3	88.6	79.3	74.3	64.1	59.3	2.1
Hot Water								
Number of Showers/Baths Taken Each Week								
Fewer than 10	27.9	18.4	25.6	25.3	28.6	31.4	32.4	5.4
10 to 20	46.0	45.1	46.4	47.4	47.6	45.1	44.6	3.5
More than 20	26.0	36.2	28.1	27.2	23.6	23.4	22.7	5.3
Not Applicable	0.2	Q	Q	Q	Q	Q	Q	70.5

See footnotes at end of table.

**Table HC6-2b. Usage Indicators by Year of Construction,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.6	1.2	1.0	1.1	1.2	0.9	
Hot Water (continued)								
Dishwasher Use								
Each Week								
Use a Dishwasher	50.2	76.7	71.2	56.6	48.3	37.2	30.3	3.7
Less Than 4 Times	28.3	40.8	41.5	32.0	28.3	20.0	16.8	5.7
4 to 6 Times	12.7	22.5	16.2	14.7	11.8	10.1	7.4	8.7
At Least Once Each Day	9.2	13.4	13.6	9.8	8.2	7.1	6.1	11.0
No Dishwasher	49.8	23.3	28.8	43.4	51.7	62.8	69.7	4.3
Loads of Laundry								
Washed Each Week								
Use a Clothes Washer	77.4	89.7	83.0	72.7	70.1	81.0	75.1	2.2
1 Load or Less	5.2	2.3	5.1	3.4	5.3	6.1	7.1	15.0
2 to 9 Loads	29.4	32.0	31.4	27.6	24.6	31.6	29.9	5.0
10 to 15 Loads	10.0	14.4	9.9	9.2	9.8	10.1	9.2	9.8
More than 15 Loads	3.3	3.8	3.7	3.2	2.6	2.6	3.6	17.6
No Washing Machine	22.6	10.3	17.0	27.3	29.9	19.0	24.9	8.2
Clothes Dryer Usage								
Use a Clothes Dryer	71.2	88.3	80.0	68.8	63.4	71.7	65.1	2.5
Every Time Clothes are Washed	56.3	75.5	68.5	53.9	48.1	56.5	47.7	3.5
Some, but not All, Loads	12.8	12.1	10.5	12.8	13.2	12.0	14.5	9.2
Used Infrequently	2.1	Q	1.0	2.1	2.1	3.2	2.9	20.0
No Dryer	28.8	11.7	20.0	31.2	36.6	28.3	34.9	7.1
Cooking								
Number of Hot Meals								
Cooked in the Home								
3 or More Times a Day	6.9	5.1	7.4	6.1	6.2	6.3	8.5	11.9
2 Times a Day	25.3	23.9	25.3	24.2	26.2	25.2	26.1	6.4
Once a Day	41.6	41.8	41.4	42.4	42.4	42.4	40.1	4.0
A Few Times Each Week	20.1	24.2	19.4	21.6	19.5	21.1	17.8	6.9
About Once a Week	3.0	3.2	3.3	2.4	3.0	1.4	4.1	18.0
Less Than Once a Week	3.0	Q	3.2	3.3	2.4	3.5	3.0	18.7
Conventional Oven Use								
More Than Once a Day	8.1	8.7	9.0	7.7	6.6	7.6	8.7	10.9
Once a Day	20.2	24.4	19.5	21.8	18.7	20.2	18.9	6.5
Between Once a Day and Once a Week	34.4	34.2	36.3	34.9	34.1	33.4	33.4	4.4
Once a Week	14.9	14.0	16.2	14.4	15.7	16.5	13.7	7.2
Less Than Once a Week	21.2	17.6	18.2	20.5	23.7	21.0	23.5	6.8
Amount of Food Cooked in Microwave Oven								
Use a Microwave Oven	83.0	88.5	87.2	84.1	82.9	82.6	77.9	1.7
Most or All	7.2	5.7	9.2	7.9	7.6	6.5	6.2	12.8
About Half	18.2	19.2	20.3	20.4	17.8	17.9	15.2	7.4
Some or Very Little	21.9	28.7	20.6	23.4	20.8	22.6	19.7	6.4
Only for Defrosting, Reheating, or Snacks	35.6	34.8	37.2	32.4	36.7	35.6	36.8	5.3
No Microwave Oven	17.0	11.5	12.8	15.9	17.1	17.4	22.1	8.9

See footnotes at end of table.

**Table HC6-2b. Usage Indicators by Year of Construction,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.6	1.2	1.0	1.1	1.2	0.9	
Lights								
Outdoor Lights on All Night								
Used	25.9	25.4	28.8	25.7	25.0	27.9	24.1	6.0
Not Used	74.1	74.6	71.2	74.3	75.0	72.1	75.9	2.1
Gas Fireplace Usage During Winter Months								
Use a Gas Fireplace	2.7	8.4	4.0	2.0	1.9	2.0	1.0	23.8
Most Days	1.1	3.3	1.2	1.0	Q	Q	0.7	29.3
Almost Once a Week	0.7	2.9	1.3	Q	Q	Q	Q	31.1
Less Than 4 Times a Month	0.8	Q	Q	Q	Q	Q	Q	60.3
Personal Computer Usage	35.1	50.4	42.3	37.0	33.0	27.6	28.3	4.9
Hours PC Turned On Each Week								
Less Than 2 Hours	8.1	9.1	6.8	9.0	8.7	6.0	8.4	11.1
2 to 15 Hours	17.1	26.7	22.7	18.3	14.6	14.6	12.0	7.3
16 to 40 Hours	6.6	9.6	7.9	6.2	6.5	4.4	5.9	12.1
On All The Time	3.3	4.9	4.9	3.5	3.2	2.6	1.9	17.9
Use of PCs Turned on 16 Hours a Week or More								
Personal Use Only	4.7	6.5	5.5	5.1	4.9	3.5	3.8	14.5
Business Use Only	2.1	5.0	2.3	1.3	2.2	1.6	1.6	23.5
Both Personal and Business	3.1	3.0	5.0	3.3	2.6	1.9	2.5	19.4
Business Use of PCs Turned on 16 Hours a Week or More								
Use to Telecommute	2.1	2.9	3.0	2.0	2.3	Q	1.6	21.2
Other Business Use	3.1	5.1	4.3	2.6	2.5	2.6	2.5	19.9
Battery Operated Appliances/Tools								
Use Battery Operated Appliances/Tools	43.7	54.1	46.4	44.7	43.2	42.3	38.7	4.0
How Maintained When Not in Use								
Plugged in All The Time	12.3	15.2	14.5	14.2	12.0	11.4	9.1	9.0
Recharged As Needed	26.6	32.7	26.6	26.9	25.6	27.0	24.6	5.6
Both Ways are Used	4.8	6.2	5.3	3.6	5.6	3.9	4.9	15.1
Don't Use Any	56.3	45.9	53.6	55.3	56.8	57.7	61.3	3.3

¹ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report. • All temperatures listed are in degrees Fahrenheit.

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

Table HC6-3b. Usage Indicators by Household Income, Percent of U.S. Households, 1997

Usage Indicators	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.5	1.0	0.9	1.0	1.4	1.0	
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Weekday Home Activities								
Home Used for Business								
Yes	7.2	3.0	4.4	7.8	11.7	3.5	4.1	13.1
No	92.8	97.0	95.6	92.2	88.3	96.5	95.9	1.1
Energy-Intensive Activity								
Yes	2.4	Q	1.9	2.4	3.5	1.2	1.7	19.3
No	97.6	99.1	98.1	97.6	96.5	98.8	98.3	NE
Someone Home All Day								
Yes	50.6	66.2	56.2	46.8	41.6	70.3	64.0	2.4
No	49.4	33.8	43.8	53.2	58.4	29.7	36.0	3.2
Heating								
Thermostat Available During Heating Season								
Yes	84.7	68.2	79.8	88.3	93.8	68.0	73.8	2.0
No	14.5	30.7	19.0	11.3	5.8	29.9	24.6	7.0
Do Not Heat Home	0.8	1.2	1.2	0.4	Q	2.2	1.6	25.9
Set-Back or Clock Thermostat in Home								
Yes	44.2	33.5	40.5	43.3	54.3	34.7	37.7	5.6
No	55.8	66.5	59.5	56.7	45.7	65.3	62.3	3.9
Use of Set-Back/Clock Thermostat for Heating								
Programming Features Used	11.5	4.0	6.2	11.6	20.6	4.4	6.4	10.1
Only Manual Controls Used	32.7	29.5	34.3	31.7	33.7	30.3	31.3	6.8
Winter Temperature Settings								
Lower When No One Home								
Yes	44.8	38.0	43.2	48.0	46.2	38.0	41.2	3.3
No	55.2	62.0	56.8	52.0	53.8	62.0	58.8	2.5
Lower During Sleeping Hours								
Yes	46.8	43.1	45.5	48.0	48.4	41.3	44.0	3.1
No	53.2	56.9	54.5	52.0	51.6	58.7	56.0	2.6
Daytime Winter Temperature When Someone is at Home								
Heat is Turned On	92.5	84.5	91.2	93.3	96.8	83.7	86.9	1.3
63 Degrees or Less	3.8	7.0	3.0	3.2	3.7	6.4	4.5	13.8
64 to 66 Degrees	8.1	6.0	7.7	9.2	8.4	6.8	7.1	9.7
67 to 69 Degrees	23.0	9.1	21.1	22.8	32.0	10.4	16.1	5.7
70 Degrees	25.3	25.2	26.8	24.7	24.3	25.6	25.3	4.8
71 to 73 Degrees	14.5	12.5	13.3	16.5	14.6	11.8	12.7	6.9
74 Degrees or More	17.8	24.7	19.3	16.9	13.9	22.7	21.3	5.4
Heat Turned Off	2.1	2.3	2.8	2.5	0.8	3.0	3.2	20.9
Unknown/No Answer	5.4	13.3	6.0	4.1	2.5	13.2	9.9	13.1

See footnotes at end of table.

**Table HC6-3b. Usage Indicators by Household Income,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.5	1.0	0.9	1.0	1.4	1.0	
Daytime Winter Temperature When No One is at Home								
Heat is Turned On	83.7	69.1	80.9	85.8	91.1	69.2	74.1	1.6
63 Degrees or Less	19.4	17.4	19.3	18.9	21.1	17.8	17.7	6.0
64 to 66 Degrees	16.3	10.8	14.2	17.7	19.6	11.8	13.8	5.9
67 to 69 Degrees	17.8	10.1	14.9	19.3	22.7	8.1	11.7	6.9
70 Degrees	14.6	13.7	17.1	13.9	13.2	14.8	15.2	6.2
71 to 73 Degrees	7.5	6.6	6.9	8.3	7.5	6.5	6.7	10.0
74 Degrees or More	8.1	10.4	8.4	7.7	7.1	10.2	8.9	9.2
Heat Turned Off	10.2	16.8	11.9	9.7	6.0	17.1	15.0	8.3
Unknown/No Answer	6.1	14.0	7.2	4.5	2.9	13.7	11.0	12.2
Winter Temperature During Sleeping Hours								
Heat is Turned On	87.8	74.2	85.5	89.9	94.4	74.6	79.2	1.6
63 Degrees or Less	16.2	15.0	16.1	15.2	18.0	14.9	15.1	6.6
64 to 66 Degrees	16.6	11.6	14.9	18.0	19.3	11.8	12.9	6.0
67 to 69 Degrees	19.3	12.3	16.7	19.3	25.3	11.2	15.1	6.4
70 Degrees	17.3	16.4	19.2	18.1	15.0	17.6	17.5	5.7
71 to 73 Degrees	8.3	5.8	8.0	9.5	8.4	5.7	7.1	9.3
74 Degrees or More	10.1	13.3	10.5	9.8	8.4	13.4	11.4	8.0
Heat Turned Off	7.1	13.1	8.9	6.2	3.6	13.0	11.4	9.9
Unknown/No Answer	5.0	12.7	5.6	3.9	2.1	12.3	9.4	13.7
Air-Conditioning								
Central Air-Conditioning Use								
Use a Central System	47.1	27.6	37.7	50.6	62.2	25.4	31.1	4.3
All Summer	24.3	12.7	20.6	25.2	32.6	12.3	15.8	6.8
Quite a Bit	10.3	5.8	7.0	11.1	15.0	5.3	6.2	9.7
Only a Few Times	12.2	8.9	9.7	13.9	14.4	7.4	8.8	9.7
Not at All	0.3	Q	Q	Q	Q	Q	Q	34.6
No Central System	52.9	72.4	62.3	49.4	37.8	74.6	68.9	2.8
Use of Set-Back/Clock Thermostat for Cooling								
Programming Features Used	4.9	Q	2.3	4.3	10.1	1.2	1.8	16.8
Only Manual Controls Used	13.3	8.1	11.6	13.4	17.3	8.0	9.6	10.4
Used Only for Heating	0.4	Q	Q	Q	0.8	Q	Q	36.8
Window Air-Conditioning Use								
Use Window Units	26.1	33.9	29.8	25.4	19.2	32.3	31.7	5.0
All Summer	5.6	9.0	6.8	4.1	4.3	8.7	8.0	10.4
Quite a Bit	6.5	7.0	6.1	8.0	5.0	6.8	6.5	10.9
Only a Few Times	13.3	17.5	16.1	12.7	9.1	16.3	16.2	6.9
Not at All	0.7	Q	0.8	0.7	0.8	Q	0.9	30.1
No Window Units	73.9	66.1	70.2	74.6	80.8	67.7	68.3	2.0
Hot Water								
Number of Showers/Baths Taken Each Week								
Fewer than 10	27.9	51.6	36.3	22.7	13.5	36.8	35.4	4.0
10 to 20	46.0	34.3	43.3	50.7	49.3	38.0	39.9	3.1
More than 20	26.0	13.2	20.4	26.6	37.2	24.7	24.3	4.6
Not Applicable	0.2	Q	Q	Q	Q	Q	Q	60.5

See footnotes at end of table.

**Table HC6-3b. Usage Indicators by Household Income,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.5	1.0	0.9	1.0	1.4	1.0	
Hot Water (continued)								
Dishwasher Use Each Week								
Use a Dishwasher	50.2	15.7	35.5	53.6	78.2	17.3	26.7	4.1
Less Than 4 Times	28.3	11.5	23.4	31.9	37.2	10.7	16.0	5.7
4 to 6 Times	12.7	2.9	7.6	12.3	23.2	4.2	5.8	9.0
At Least Once Each Day	9.2	1.3	4.4	9.3	17.8	2.4	4.9	11.7
No Dishwasher	49.8	84.3	64.5	46.4	21.8	82.7	73.3	2.5
Loads of Laundry Washed Each Week								
Use a Clothes Washer	77.4	52.7	69.0	81.5	93.4	58.0	63.3	2.4
1 Load or Less	5.2	8.6	6.8	4.4	2.8	7.1	6.3	11.4
2 to 9 Loads	29.4	25.7	30.5	30.2	29.1	21.5	25.6	4.6
10 to 15 Loads	10.0	3.1	6.4	11.0	15.9	7.3	7.3	8.2
More than 15 Loads	3.3	1.3	2.4	2.8	5.7	2.8	3.0	14.9
No Washing Machine	22.6	47.3	31.0	18.5	6.6	42.0	36.7	5.6
Clothes Dryer Usage								
Use a Clothes Dryer	71.2	36.2	61.0	77.1	91.8	41.5	51.2	2.8
Every Time Clothes are Washed	56.3	28.7	46.0	60.4	75.5	32.2	39.1	3.2
Some, but not All, Loads	12.8	6.1	12.3	14.5	14.5	7.7	10.1	8.2
Used Infrequently	2.1	1.5	2.7	2.2	1.8	1.6	2.0	19.7
No Dryer	28.8	63.8	39.0	22.9	8.2	58.5	48.8	4.3
Cooking								
Number of Hot Meals Cooked in the Home								
3 or More Times a Day	6.9	12.2	8.3	5.8	4.2	15.0	11.8	8.6
2 Times a Day	25.3	28.4	28.2	24.2	22.0	32.0	30.1	4.6
Once a Day	41.6	33.4	37.6	43.9	47.0	31.9	35.9	3.7
A Few Times Each Week	20.1	17.8	18.9	19.8	22.6	16.2	16.4	6.5
About Once a Week	3.0	3.6	3.5	3.1	2.2	2.2	2.6	15.1
Less Than Once a Week	3.0	4.1	3.2	3.1	2.0	2.6	3.0	16.9
Conventional Oven Use								
More Than Once a Day	8.1	9.5	8.4	7.7	7.8	10.9	10.8	8.7
Once a Day	20.2	17.6	18.4	20.5	23.0	18.7	19.4	5.7
Between Once a Day and Once a Week	34.4	26.5	30.9	36.5	39.3	26.0	28.5	4.2
Once a Week	14.9	13.6	15.4	15.6	14.2	13.3	14.1	6.3
Less Than Once a Week	21.2	29.4	25.6	19.0	15.1	28.4	25.2	5.0
Amount of Food Cooked in Microwave Oven								
Use a Microwave Oven	83.0	60.3	81.2	86.7	91.5	63.8	72.0	1.7
Most or All	7.2	6.9	8.2	7.0	6.7	5.7	6.8	11.3
About Half	18.2	12.6	15.8	19.6	21.7	12.0	13.0	6.9
Some or Very Little	21.9	12.9	19.7	23.9	26.4	15.3	18.3	6.3
Only for Defrosting, Reheating, or Snacks	35.6	28.0	37.4	36.3	36.8	30.8	33.9	4.4
No Microwave Oven	17.0	39.7	18.8	13.3	8.5	36.2	28.0	6.2

See footnotes at end of table.

Table HC6-3b. Usage Indicators by Household Income, Percent of U.S. Households, 1997 (Continued)

Usage Indicators	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.5	1.0	0.9	1.0	1.4	1.0	
Lights								
Outdoor Lights on All Night								
Used	25.9	21.3	23.1	25.8	31.2	23.3	22.1	5.5
Not Used	74.1	78.7	76.9	74.2	68.8	76.7	77.9	1.8
Gas Fireplace Usage During Winter Months								
Use a Gas Fireplace	2.7	Q	0.9	2.5	5.0	Q	1.1	23.3
Most Days	1.1	Q	Q	1.0	2.2	Q	Q	24.5
Almost Once a Week	0.7	Q	Q	0.7	1.4	Q	Q	28.4
Less Than 4 Times a Month	0.8	Q	Q	Q	1.4	Q	Q	39.2
Personal Computer Usage	35.1	9.7	16.5	36.9	64.5	13.1	15.8	4.9
Hours PC Turned On Each Week								
Less Than 2 Hours	8.1	2.8	4.2	9.8	12.5	3.7	4.0	10.5
2 to 15 Hours	17.1	3.4	8.0	18.3	31.9	5.3	6.9	8.1
16 to 40 Hours	6.6	3.2	3.1	5.8	12.6	3.1	4.1	12.5
On All The Time	3.3	Q	1.1	3.0	7.4	1.0	0.9	18.5
Use of PCs Turned on 16 Hours a Week or More								
Personal Use Only	4.7	2.3	2.3	4.1	9.1	2.9	2.9	14.9
Business Use Only	2.1	Q	Q	1.4	5.0	Q	0.7	21.2
Both Personal and Business	3.1	Q	1.2	3.3	6.0	Q	1.3	18.4
Business Use of PCs Turned on 16 Hours a Week or More								
Use to Telecommute	2.1	Q	0.8	2.0	4.4	Q	0.7	21.3
Other Business Use	3.1	Q	1.1	2.7	6.5	Q	1.4	20.1
Battery Operated Appliances/Tools								
Use Battery Operated Appliances/Tools	43.7	15.1	32.0	48.6	64.1	18.8	25.8	4.0
How Maintained When Not in Use								
Plugged in All The Time	12.3	3.8	9.1	13.4	18.4	4.6	6.6	8.7
Recharged As Needed	26.6	9.3	20.2	30.2	37.5	12.3	16.4	5.6
Both Ways are Used	4.8	2.0	2.7	5.0	8.2	2.0	2.8	13.3
Don't Use Any	56.3	84.9	68.0	51.4	35.9	81.2	74.2	2.0

¹ Below 150 percent of poverty line or 60 percent of median State income.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report. • All temperatures listed are in degrees Fahrenheit.

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

**Table HC6-4b. Usage Indicators by Type of Housing Unit,
Percent of U.S. Households, 1997**

Usage Indicators	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.5	1.8	1.4	1.6	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Weekday Home Activities						
Home Used for Business						
Yes	7.2	8.3	Q	5.6	4.0	14.6
No	92.8	91.7	97.9	94.4	96.0	0.8
Energy-Intensive Activity						
Yes	2.4	2.7	Q	1.6	Q	21.3
No	97.6	97.3	99.3	98.4	98.0	NE
Someone Home All Day						
Yes	50.6	52.8	50.0	40.6	50.0	3.5
No	49.4	47.2	50.0	59.4	50.0	3.4
Heating						
Thermostat Available During Heating Season						
Yes	84.7	88.7	79.9	67.5	85.7	2.1
No	14.5	10.8	20.1	30.6	12.7	9.2
Do Not Heat Home	0.8	0.5	Q	2.0	Q	39.5
Set-Back or Clock Thermostat in Home						
Yes	44.2	46.8	38.7	32.7	47.8	6.8
No	55.8	53.2	61.3	67.3	52.2	4.9
Use of Set-Back/Clock Thermostat for Heating						
Programming Features Used	11.5	14.0	6.0	3.3	8.3	12.3
Only Manual Controls Used	32.7	32.8	32.6	29.4	39.5	8.2
Winter Temperature Settings						
Lower When No One Home						
Yes	44.8	47.3	38.3	35.3	45.2	4.0
No	55.2	52.7	61.7	64.7	54.8	2.9
Lower During Sleeping Hours						
Yes	46.8	50.0	40.9	33.7	46.5	4.2
No	53.2	50.0	59.1	66.3	53.5	3.3
Daytime Winter Temperature When Someone is at Home						
Heat is Turned On	92.5	95.3	90.3	79.7	93.7	1.4
63 Degrees or Less	3.8	3.5	3.7	5.2	2.9	16.5
64 to 66 Degrees	8.1	8.0	8.4	8.3	8.8	10.6
67 to 69 Degrees	23.0	26.3	16.4	13.2	15.2	7.1
70 Degrees	25.3	25.9	25.3	20.9	28.3	5.8
71 to 73 Degrees	14.5	15.4	13.5	9.5	17.4	8.0
74 Degrees or More	17.8	16.1	23.0	22.6	21.0	6.8
Heat Turned Off	2.1	1.5	Q	5.1	Q	24.8
Unknown/No Answer	5.4	3.1	7.8	15.2	4.9	15.8

See footnotes at end of table.

**Table HC6-4b. Usage Indicators by Type of Housing Unit,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.5	1.8	1.4	1.6	
Daytime Winter Temperature When No One is at Home						
Heat is Turned On	83.7	87.4	78.0	69.1	81.4	2.4
63 Degrees or Less	19.4	20.3	18.8	15.5	19.8	7.6
64 to 66 Degrees	16.3	17.5	14.0	11.6	17.0	7.4
67 to 69 Degrees	17.8	20.0	12.0	11.8	11.7	8.2
70 Degrees	14.6	14.8	13.3	13.3	16.4	8.2
71 to 73 Degrees	7.5	7.7	8.9	5.3	8.7	11.1
74 Degrees or More	8.1	7.2	11.0	11.6	7.8	11.0
Heat Turned Off	10.2	8.6	12.2	16.1	13.2	11.2
Unknown/No Answer	6.1	4.0	9.8	14.9	5.4	14.3
Winter Temperature During Sleeping Hours						
Heat is Turned On	87.8	91.2	83.6	74.2	85.7	2.0
63 Degrees or Less	16.2	17.6	13.1	11.1	15.1	8.6
64 to 66 Degrees	16.6	17.7	14.5	12.2	16.6	7.4
67 to 69 Degrees	19.3	21.6	13.6	12.2	15.2	7.7
70 Degrees	17.3	17.2	21.1	16.1	19.0	7.4
71 to 73 Degrees	8.3	8.5	8.9	6.9	8.9	9.8
74 Degrees or More	10.1	8.6	12.3	15.7	11.0	10.7
Heat Turned Off	7.1	5.9	8.9	10.9	10.5	13.5
Unknown/No Answer	5.0	2.8	7.5	14.9	3.8	16.7
Air-Conditioning						
Central Air-Conditioning Use						
Use a Central System	47.1	50.1	29.0	41.5	41.8	5.7
All Summer	24.3	26.3	9.8	20.3	23.5	8.4
Quite a Bit	10.3	10.7	10.9	8.2	9.3	11.5
Only a Few Times	12.2	12.8	7.7	12.4	8.7	12.5
Not at All	0.3	0.3	Q	Q	Q	50.0
No Central System	52.9	49.9	71.0	58.5	58.2	4.1
Use of Set-Back/Clock Thermostat for Cooling						
Programming Features Used	4.9	6.0	Q	2.0	3.4	19.1
Only Manual Controls Used	13.3	13.9	7.5	12.5	13.0	13.2
Used Only for Heating	0.4	0.4	Q	Q	Q	48.9
Window Air-Conditioning Use						
Use Window Units	26.1	24.5	33.6	29.3	30.5	6.6
All Summer	5.6	5.3	4.2	5.8	9.6	13.3
Quite a Bit	6.5	6.2	7.9	7.1	7.2	11.5
Only a Few Times	13.3	12.3	20.3	15.5	13.4	9.0
Not at All	0.7	0.6	Q	Q	Q	37.3
No Window Units	73.9	75.5	66.4	70.7	69.5	2.6
Hot Water						
Number of Showers/Baths Taken Each Week						
Fewer than 10	27.9	24.7	35.9	38.7	30.0	5.0
10 to 20	46.0	47.1	43.4	42.0	46.0	3.6
More than 20	26.0	28.1	20.7	19.0	23.3	5.9
Not Applicable	0.2	Q	Q	Q	Q	73.7

See footnotes at end of table.

**Table HC6-4b. Usage Indicators by Type of Housing Unit,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Type of Housing Unit					RSE Row Factors
	Total	Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.5	1.8	1.4	1.6	
Hot Water (continued)						
Dishwasher Use						
Each Week						
Use a Dishwasher	50.2	56.6	18.3	40.1	29.0	5.7
Less Than 4 Times	28.3	29.8	13.2	29.5	20.1	7.4
4 to 6 Times	12.7	15.5	2.6	6.6	5.1	11.4
At Least Once Each Day	9.2	11.3	Q	4.0	3.9	13.9
No Dishwasher	49.8	43.4	81.7	59.9	71.0	3.5
Loads of Laundry						
Washed Each Week						
Use a Clothes Washer	77.4	92.2	39.7	21.3	78.9	3.9
1 Load or Less	5.2	5.9	5.7	1.8	4.8	16.6
2 to 9 Loads	29.4	34.1	16.4	11.9	30.0	6.5
10 to 15 Loads	10.0	12.3	4.5	1.4	9.7	12.0
More than 15 Loads	3.3	4.1	Q	Q	3.0	16.3
No Washing Machine	22.6	7.8	60.3	78.7	21.1	5.9
Clothes Dryer Usage						
Use a Clothes Dryer	71.2	85.8	28.5	17.8	71.6	4.7
Every Time Clothes are Washed	56.3	67.4	23.3	16.0	55.6	5.1
Some, but not All, Loads	12.8	15.6	5.0	1.6	14.5	11.2
Used Infrequently	2.1	2.7	Q	Q	Q	19.2
No Dryer	28.8	14.2	71.5	82.2	28.4	4.9
Cooking						
Number of Hot Meals						
Cooked in the Home						
3 or More Times a Day	6.9	6.4	8.3	8.4	7.8	10.8
2 Times a Day	25.3	25.8	19.3	24.0	28.3	6.0
Once a Day	41.6	42.8	38.2	36.7	41.5	4.4
A Few Times Each Week	20.1	20.0	21.6	22.4	13.4	7.6
About Once a Week	3.0	2.4	9.0	3.6	4.0	15.3
Less Than Once a Week	3.0	2.5	3.6	4.1	5.1	17.3
Conventional Oven Use						
More Than Once a Day	8.1	8.2	8.5	7.6	8.3	10.1
Once a Day	20.2	21.3	17.0	16.3	19.6	6.9
Between Once a Day and Once a Week	34.4	36.4	28.5	29.5	27.9	4.6
Once a Week	14.9	14.8	14.7	15.6	15.1	7.1
Less Than Once a Week	21.2	18.2	30.0	29.4	28.0	5.5
Amount of Food Cooked in Microwave Oven						
Use a Microwave Oven	83.0	86.7	67.8	71.6	81.4	2.0
Most or All	7.2	6.8	6.0	9.9	6.7	12.3
About Half	18.2	19.0	11.1	17.0	18.0	7.6
Some or Very Little	21.9	23.2	14.4	19.4	20.2	7.8
Only for Defrosting, Reheating, or Snacks	35.6	37.7	36.3	25.3	36.4	5.3
No Microwave Oven	17.0	13.3	32.2	28.4	18.6	7.6

See footnotes at end of table.

**Table HC6-4b. Usage Indicators by Type of Housing Unit,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.5	1.8	1.4	1.6	
Lights						
Outdoor Lights on All Night						
Used	25.9	28.9	16.0	15.3	26.5	7.2
Not Used	74.1	71.1	84.0	84.7	73.5	2.0
Gas Fireplace Usage During Winter Months						
Use a Gas Fireplace	2.7	3.6	Q	Q	Q	25.4
Most Days	1.1	1.5	Q	Q	Q	30.1
Almost Once a Week	0.7	1.0	Q	Q	Q	38.4
Less Than 4 Times a Month	0.8	1.1	Q	Q	Q	58.6
Personal Computer Usage	35.1	39.6	21.5	26.4	15.5	5.6
Hours PC Turned On Each Week						
Less Than 2 Hours	8.1	9.5	3.6	4.8	3.8	13.7
2 to 15 Hours	17.1	19.5	11.1	12.2	7.3	8.3
16 to 40 Hours	6.6	7.2	5.4	5.5	2.9	13.7
On All The Time	3.3	3.5	Q	3.9	Q	16.9
Use of PCs Turned on 16 Hours a Week or More						
Personal Use Only	4.7	5.0	5.2	3.7	3.3	15.5
Business Use Only	2.1	2.3	Q	2.1	Q	22.0
Both Personal and Business	3.1	3.3	Q	3.7	Q	19.0
Business Use of PCs Turned on 16 Hours a Week or More						
Use to Telecommute	2.1	2.1	Q	3.1	Q	19.7
Other Business Use	3.1	3.5	Q	2.7	Q	20.9
Battery Operated Appliances/Tools						
Use Battery Operated Appliances/Tools	43.7	51.0	19.9	22.2	33.9	4.5
How Maintained When Not in Use						
Plugged in All The Time	12.3	14.2	4.9	6.8	10.7	10.1
Recharged As Needed	26.6	30.8	14.1	13.5	22.1	5.9
Both Ways are Used	4.8	6.1	Q	1.9	Q	17.6
Don't Use Any	56.3	49.0	80.1	77.8	66.1	2.2

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report. • All temperatures listed are in degrees Fahrenheit.

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

**Table HC6-5b. Usage Indicators by Type of Owner-Occupied Housing Unit,
Percent of U.S. Households, 1997**

Usage Indicators	Total Owner- Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.4	2.5	2.4	1.2	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Weekday Home Activities						
Home Used for Business						
Yes	8.5	8.9	Q	Q	3.9	21.2
No	91.5	91.1	92.4	90.0	96.1	1.7
Energy-Intensive Activity						
Yes	2.7	2.7	Q	Q	Q	31.3
No	97.3	97.3	100.0	98.3	97.7	0.8
Someone Home All Day						
Yes	53.5	53.8	59.4	48.9	50.1	4.6
No	46.5	46.2	40.6	51.1	49.9	5.2
Heating						
Thermostat Available During Heating Season						
Yes	90.1	90.7	90.0	74.0	86.4	2.5
No	9.4	8.9	Q	22.3	12.8	17.1
Do Not Heat Home	0.5	0.5	Q	Q	Q	49.6
Set-Back or Clock Thermostat in Home						
Yes	48.3	48.5	47.3	41.6	48.1	8.3
No	51.7	51.5	52.7	58.4	51.9	7.3
Use of Set-Back/Clock Thermostat for Heating						
Programming Features Used	14.9	15.4	Q	Q	9.3	15.0
Only Manual Controls Used	33.4	33.0	31.4	31.9	38.8	11.2
Winter Temperature Settings						
Lower When No One Home						
Yes	46.7	47.1	33.3	35.9	46.1	6.5
No	53.3	52.9	66.7	64.1	53.9	4.6
Lower During Sleeping Hours						
Yes	50.6	51.0	46.8	47.8	47.1	6.6
No	49.4	49.0	53.2	52.2	52.9	6.3
Daytime Winter Temperature When Someone is at Home						
Heat is Turned On	95.8	96.4	87.6	80.3	93.8	2.3
63 Degrees or Less	3.0	3.1	Q	Q	Q	30.3
64 to 66 Degrees	7.7	7.7	Q	Q	8.3	16.1
67 to 69 Degrees	26.5	27.6	24.1	21.1	15.0	10.6
70 Degrees	26.2	26.3	27.2	14.2	27.0	8.9
71 to 73 Degrees	16.5	16.3	Q	Q	19.3	11.3
74 Degrees or More	16.0	15.5	Q	Q	21.9	10.2
Heat Turned Off	1.3	1.2	Q	Q	Q	67.8
Unknown/No Answer	2.9	2.4	Q	15.8	4.5	30.1

See footnotes at end of table.

**Table HC6-5b. Usage Indicators by Type of Owner-Occupied Housing Unit,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total Owner- Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.4	2.5	2.4	1.2	
Daytime Winter Temperature						
When No One is at Home						
Heat is Turned On	88.5	89.4	85.7	65.9	83.4	3.5
63 Degrees or Less	19.8	20.0	18.7	Q	20.5	10.5
64 to 66 Degrees	17.7	18.0	Q	Q	17.2	10.1
67 to 69 Degrees	20.0	20.9	Q	16.5	11.6	11.5
70 Degrees	15.1	15.2	Q	Q	15.8	12.3
71 to 73 Degrees	8.3	8.1	Q	Q	9.9	15.8
74 Degrees or More	7.4	7.2	Q	Q	8.4	18.0
Heat Turned Off	7.9	7.4	Q	16.1	12.3	20.2
Unknown/No Answer	3.6	3.2	Q	18.0	4.4	26.0
Winter Temperature						
During Sleeping Hours						
Heat is Turned On	91.8	92.9	85.7	66.1	85.8	3.1
63 Degrees or Less	17.3	17.8	Q	Q	13.3	12.7
64 to 66 Degrees	18.2	18.3	Q	Q	17.8	9.7
67 to 69 Degrees	22.1	22.8	19.8	16.9	15.6	12.3
70 Degrees	17.0	17.0	Q	Q	18.2	11.4
71 to 73 Degrees	8.7	8.7	Q	Q	9.7	14.3
74 Degrees or More	8.6	8.4	Q	Q	11.2	18.9
Heat Turned Off	5.6	4.9	Q	18.1	11.1	20.5
Unknown/No Answer	2.6	2.2	Q	15.8	3.1	30.2
Air-Conditioning						
Central Air-Conditioning Use						
Use a Central System	53.1	54.3	41.1	33.4	45.3	8.0
All Summer	27.9	28.5	Q	22.2	25.3	10.9
Quite a Bit	11.5	11.7	Q	Q	10.1	16.7
Only a Few Times	13.3	13.8	Q	Q	9.6	18.5
Not at All	0.3	0.3	Q	Q	Q	65.2
No Central System	46.9	45.7	58.9	66.6	54.7	6.6
Use of Set-Back/Clock						
Thermostat for Cooling						
Programming Features Used	6.2	6.6	Q	Q	4.1	23.3
Only Manual Controls Used	14.9	15.1	Q	Q	13.4	19.1
Used Only for Heating	0.5	0.4	Q	Q	Q	68.9
Window Air-Conditioning Use						
Use Window Units	24.4	23.4	42.2	42.3	29.2	9.9
All Summer	5.3	4.9	Q	Q	8.5	22.3
Quite a Bit	6.1	5.9	Q	Q	6.7	17.4
Only a Few Times	12.4	11.9	21.1	24.8	13.7	14.9
Not at All	0.7	0.7	Q	Q	Q	57.8
No Window Units	75.6	76.6	57.8	57.7	70.8	4.6
Hot Water						
Number of Showers/Baths						
Taken Each Week						
Fewer than 10	26.1	24.7	33.2	67.8	31.0	7.7
10 to 20	46.9	47.6	43.6	25.4	44.7	6.8
More than 20	26.9	27.7	23.1	Q	23.5	9.5
Not Applicable	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table HC6-5b. Usage Indicators by Type of Owner-Occupied Housing Unit,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total Owner- Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.4	2.5	2.4	1.2	
Hot Water (continued)						
Dishwasher Use						
Each Week						
Use a Dishwasher	58.9	61.7	31.9	48.9	33.3	7.0
Less Than 4 Times	31.8	32.5	25.8	36.5	23.2	9.7
4 to 6 Times	16.2	17.4	Q	Q	5.9	13.9
At Least Once Each Day	11.0	11.9	Q	Q	4.3	17.2
No Dishwasher	41.1	38.3	68.1	51.1	66.7	6.1
Loads of Laundry						
Washed Each Week						
Use a Clothes Washer	93.0	95.6	62.5	35.5	81.0	5.7
1 Load or Less	6.2	6.3	Q	Q	5.0	20.8
2 to 9 Loads	34.9	35.7	19.2	23.9	31.4	8.4
10 to 15 Loads	12.1	12.4	Q	Q	10.1	15.6
More than 15 Loads	4.2	4.4	Q	Q	2.7	25.0
No Washing Machine	7.0	4.4	37.5	64.5	19.0	14.2
Clothes Dryer Usage						
Use a Clothes Dryer	87.6	90.2	54.0	31.9	75.0	6.4
Every Time Clothes are Washed	68.4	70.5	40.3	26.3	58.0	6.2
Some, but not All, Loads	16.4	16.7	Q	Q	15.4	11.7
Used Infrequently	2.8	3.0	Q	Q	Q	27.5
No Dryer	12.4	9.8	46.0	68.1	25.0	10.8
Cooking						
Number of Hot Meals						
Cooked in the Home						
3 or More Times a Day	6.1	5.9	Q	Q	7.3	18.0
2 Times a Day	25.7	25.6	20.8	21.8	27.8	8.9
Once a Day	43.9	44.3	33.2	38.6	42.4	6.3
A Few Times Each Week	18.9	19.5	Q	16.3	12.8	13.7
About Once a Week	2.7	2.3	Q	Q	4.2	25.5
Less Than Once a Week	2.8	2.4	Q	Q	5.6	27.6
Conventional Oven Use						
More Than Once a Day	7.7	7.6	Q	Q	8.5	16.1
Once a Day	20.9	21.1	19.0	Q	19.9	10.7
Between Once a Day and Once a Week	36.5	37.8	Q	27.2	27.4	7.2
Once a Week	14.9	14.7	Q	26.8	14.7	10.2
Less Than Once a Week	19.0	17.9	38.9	21.5	28.6	9.2
Amount of Food Cooked						
in Microwave Oven						
Use a Microwave Oven	87.6	88.4	75.6	75.7	83.1	2.9
Most or All	6.9	6.8	Q	17.8	6.7	17.2
About Half	18.8	19.1	Q	19.1	17.7	11.0
Some or Very Little	23.3	23.7	21.8	18.8	20.2	10.9
Only for Defrosting, Reheating, or Snacks	38.6	38.9	42.9	20.0	38.6	8.3
No Microwave Oven	12.4	11.6	24.4	24.3	16.9	14.0

See footnotes at end of table.

Table HC6-5b. Usage Indicators by Type of Owner-Occupied Housing Unit, Percent of U.S. Households, 1997 (Continued)

Usage Indicators	Total Owner-Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.4	2.5	2.4	1.2	
Lights						
Outdoor Lights on All Night						
Used	29.5	30.1	24.9	Q	27.3	9.5
Not Used	70.5	69.9	75.1	87.0	72.7	3.3
Gas Fireplace Usage During Winter Months						
Use a Gas Fireplace	3.9	4.3	Q	Q	Q	33.7
Most Days	1.6	1.7	Q	Q	Q	39.9
Almost Once a Week	1.1	1.2	Q	Q	Q	50.6
Less Than 4 Times a Month	1.2	1.3	Q	Q	Q	77.3
Personal Computer Usage	38.8	41.5	Q	20.5	15.9	8.3
Hours PC Turned On Each Week						
Less Than 2 Hours	9.4	10.1	Q	Q	4.2	18.7
2 to 15 Hours	18.9	20.2	Q	Q	6.7	12.4
16 to 40 Hours	7.1	7.6	Q	Q	3.3	18.7
On All The Time	3.4	3.6	Q	Q	Q	26.5
Use of PCs Turned on 16 Hours a Week or More						
Personal Use Only	5.0	5.2	Q	Q	3.9	22.7
Business Use Only	2.4	2.6	Q	Q	Q	31.7
Both Personal and Business	3.1	3.4	Q	Q	Q	25.0
Business Use of PCs Turned on 16 Hours a Week or More						
Use to Telecommute	2.0	2.2	Q	Q	Q	30.1
Other Business Use	3.5	3.8	Q	Q	Q	25.8
Battery Operated Appliances/Tools						
Use Battery Operated Appliances/Tools	52.5	54.5	38.3	29.6	36.9	5.9
How Maintained When Not in Use						
Plugged in All The Time	15.1	15.4	Q	Q	11.8	12.9
Recharged As Needed	31.4	32.5	20.4	18.9	23.9	9.1
Both Ways are Used	6.0	6.6	Q	Q	Q	22.5
Don't Use Any	47.5	45.5	61.7	70.4	63.1	4.3

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. • All temperatures listed are in degrees Fahrenheit. • Because of rounding, data may not sum to totals. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC6-6b. Usage Indicators by Type of Rented Housing Unit,
Percent of U.S. Households, 1997**

Usage Indicators	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.7	1.3	0.9	2.2	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Weekday Home Activities						
Home Used for Business						
Yes	4.6	5.3	Q	5.2	Q	24.0
No	95.4	94.7	99.0	94.8	95.6	0.9
Energy-Intensive Activity						
Yes	1.8	2.4	Q	1.6	Q	35.1
No	98.2	97.6	99.2	98.4	99.3	NE
Someone Home All Day						
Yes	44.5	48.0	48.2	39.9	49.5	6.1
No	55.5	52.0	51.8	60.1	50.5	5.2
Heating						
Thermostat Available During Heating Season						
Yes	73.7	79.2	77.9	66.9	82.5	3.6
No	25.1	20.1	22.1	31.2	Q	11.2
Do Not Heat Home	1.2	Q	Q	1.8	Q	55.8
Set-Back or Clock Thermostat in Home						
Yes	35.8	38.8	36.9	32.0	46.1	9.3
No	64.2	61.2	63.1	68.0	53.9	5.7
Use of Set-Back/Clock Thermostat for Heating						
Programming Features Used	4.5	6.8	4.1	2.8	Q	23.7
Only Manual Controls Used	31.3	32.0	32.9	29.2	42.7	10.3
Winter Temperature Settings						
Lower When No One Home						
Yes	40.9	48.1	39.3	35.3	40.8	6.4
No	59.1	51.9	60.7	64.7	59.2	4.4
Lower During Sleeping Hours						
Yes	38.7	45.1	39.8	32.6	43.6	6.4
No	61.3	54.9	60.2	67.4	56.4	4.3
Daytime Winter Temperature When Someone is at Home						
Heat is Turned On	85.7	90.2	90.8	79.6	92.8	2.2
63 Degrees or Less	5.3	5.8	3.8	5.4	Q	21.1
64 to 66 Degrees	9.1	9.8	9.6	8.1	Q	16.1
67 to 69 Degrees	15.9	20.1	14.8	12.6	16.4	12.4
70 Degrees	23.4	24.2	24.9	21.4	34.3	9.3
71 to 73 Degrees	10.4	11.3	13.0	9.1	Q	14.6
74 Degrees or More	21.5	19.1	24.6	23.1	16.6	10.6
Heat Turned Off	3.7	3.0	Q	5.2	Q	21.7
Unknown/No Answer	10.6	6.8	7.6	15.1	Q	16.8

See footnotes at end of table.

**Table HC6-6b. Usage Indicators by Type of Rented Housing Unit,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.7	1.3	0.9	2.2	
Daytime Winter Temperature When No One is at Home						
Heat is Turned On	73.7	77.9	76.4	69.3	71.8	3.6
63 Degrees or Less	18.5	21.5	18.8	16.0	16.7	11.7
64 to 66 Degrees	13.4	14.9	14.4	11.6	16.1	13.2
67 to 69 Degrees	13.1	15.5	12.0	11.4	12.2	14.6
70 Degrees	13.4	12.8	13.5	13.4	19.5	13.1
71 to 73 Degrees	5.7	6.0	7.4	5.2	Q	20.4
74 Degrees or More	9.5	7.1	10.3	11.6	Q	17.6
Heat Turned Off	15.2	14.5	13.6	16.1	17.6	13.6
Unknown/No Answer	11.2	7.6	9.9	14.6	Q	16.4
Winter Temperature During Sleeping Hours						
Heat is Turned On	79.6	83.1	83.2	74.9	85.1	3.0
63 Degrees or Less	13.9	16.8	13.2	10.9	23.7	12.3
64 to 66 Degrees	13.3	14.9	13.0	12.2	10.6	13.2
67 to 69 Degrees	13.5	16.0	12.3	11.8	13.1	12.0
70 Degrees	18.1	18.1	21.8	16.6	22.7	10.9
71 to 73 Degrees	7.5	7.4	9.8	6.9	Q	15.7
74 Degrees or More	13.2	10.0	13.0	16.4	Q	15.5
Heat Turned Off	10.4	11.0	9.7	10.3	Q	17.1
Unknown/No Answer	10.0	5.9	7.1	14.8	Q	17.9
Air-Conditioning						
Central Air-Conditioning Use						
Use a Central System	34.6	29.8	26.6	42.1	24.4	10.2
All Summer	16.7	15.6	9.4	20.2	14.7	14.2
Quite a Bit	7.7	6.3	9.0	8.6	Q	20.8
Only a Few Times	9.9	7.8	7.6	13.0	Q	21.5
Not at All	Q	Q	Q	Q	Q	NF
No Central System	65.4	70.2	73.4	57.9	75.6	4.6
Use of Set-Back/Clock Thermostat for Cooling						
Programming Features Used	2.1	2.7	Q	2.1	Q	38.4
Only Manual Controls Used	10.0	8.1	7.3	12.4	Q	19.2
Used Only for Heating	Q	Q	Q	Q	Q	NF
Window Air-Conditioning Use						
Use Window Units	29.6	29.6	31.9	28.3	36.6	8.9
All Summer	6.2	7.1	3.8	5.7	14.7	17.4
Quite a Bit	7.4	7.6	7.3	7.1	Q	19.5
Only a Few Times	15.3	14.5	20.2	14.7	12.3	11.6
Not at All	0.6	Q	Q	Q	Q	87.8
No Window Units	70.4	70.4	68.1	71.7	63.4	4.0
Hot Water						
Number of Showers/Baths Taken Each Week						
Fewer than 10	31.6	24.8	36.4	36.3	25.2	9.1
10 to 20	44.1	44.7	43.3	43.3	52.2	5.5
More than 20	24.0	30.1	20.3	20.0	22.6	9.6
Not Applicable	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table HC6-6b. Usage Indicators by Type of Rented Housing Unit,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.7	1.3	0.9	2.2	
Hot Water (continued)						
Dishwasher Use						
Each Week						
Use a Dishwasher	32.0	31.5	15.6	39.4	Q	11.3
Less Than 4 Times	21.0	16.9	10.7	29.0	Q	13.8
4 to 6 Times	5.5	6.1	Q	6.3	Q	19.6
At Least Once Each Day	5.5	8.5	Q	4.2	Q	22.8
No Dishwasher	68.0	68.5	84.4	60.6	92.0	3.7
Loads of Laundry						
Washed Each Week						
Use a Clothes Washer	45.0	75.4	35.2	20.2	68.6	6.7
1 Load or Less	3.1	4.1	5.0	1.6	Q	28.7
2 to 9 Loads	17.9	26.3	15.8	10.9	23.0	12.5
10 to 15 Loads	5.7	11.6	2.3	1.4	Q	22.8
More than 15 Loads	1.4	2.6	Q	Q	Q	35.9
No Washing Machine	55.0	24.6	64.8	79.8	31.4	6.4
Clothes Dryer Usage						
Use a Clothes Dryer	37.2	64.5	23.5	16.7	54.9	8.9
Every Time Clothes are Washed	31.1	52.8	19.9	15.2	43.8	10.1
Some, but not All, Loads	5.2	10.1	3.3	Q	Q	19.4
Used Infrequently	0.8	1.6	Q	Q	Q	45.6
No Dryer	62.8	35.5	76.5	83.3	45.1	5.4
Cooking						
Number of Hot Meals						
Cooked in the Home						
3 or More Times a Day	8.7	9.2	7.8	8.4	10.0	16.8
2 Times a Day	24.5	26.5	19.0	24.2	31.1	9.2
Once a Day	36.7	35.9	39.2	36.6	37.1	6.8
A Few Times Each Week	22.5	22.6	22.5	22.8	16.3	10.6
About Once a Week	3.8	2.5	8.9	3.2	Q	23.8
Less Than Once a Week	3.4	3.2	Q	3.9	Q	28.4
Conventional Oven Use						
More Than Once a Day	9.1	11.3	8.1	7.7	Q	15.5
Once a Day	18.8	22.3	16.6	16.5	17.8	10.6
Between Once a Day and Once a Week	29.9	29.5	31.4	29.7	30.4	7.4
Once a Week	15.0	15.3	14.4	14.7	17.5	12.8
Less Than Once a Week	25.6	19.7	28.2	30.0	24.7	8.9
Amount of Food Cooked in Microwave Oven						
Use a Microwave Oven	73.3	78.4	66.2	71.2	73.0	3.1
Most or All	7.9	6.9	6.5	9.3	Q	19.0
About Half	16.8	18.4	11.8	16.8	19.7	11.6
Some or Very Little	19.1	21.0	13.0	19.4	20.2	13.1
Only for Defrosting, Reheating, or Snacks	29.5	32.2	35.0	25.7	26.1	8.3
No Microwave Oven	26.7	21.6	33.8	28.8	27.0	8.1

See footnotes at end of table.

Table HC6-6b. Usage Indicators by Type of Rented Housing Unit, Percent of U.S. Households, 1997 (Continued)

Usage Indicators	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.7	1.3	0.9	2.2	
Lights						
Outdoor Lights on All Night						
Used	18.4	23.1	14.3	15.4	22.6	12.5
Not Used	81.6	76.9	85.7	84.6	77.4	2.8
Gas Fireplace Usage During Winter Months						
Use a Gas Fireplace	Q	Q	Q	Q	Q	NF
Most Days	Q	Q	Q	Q	Q	NF
Almost Once a Week	Q	Q	Q	Q	Q	NF
Less Than 4 Times a Month	Q	Q	Q	Q	Q	NF
Personal Computer Usage	27.2	30.6	22.3	26.9	13.3	9.4
Hours PC Turned On Each Week						
Less Than 2 Hours	5.2	6.1	4.2	5.0	Q	22.1
2 to 15 Hours	13.6	16.4	10.8	12.3	Q	13.0
16 to 40 Hours	5.4	5.3	6.2	5.5	Q	22.7
On All The Time	3.1	2.9	Q	4.1	Q	28.7
Use of PCs Turned on 16 Hours a Week or More						
Personal Use Only	4.0	4.1	5.9	3.6	Q	26.3
Business Use Only	1.5	Q	Q	2.3	Q	32.5
Both Personal and Business	2.9	3.0	Q	3.7	Q	33.1
Business Use of PCs Turned on 16 Hours a Week or More						
Use to Telecommute	2.2	1.9	Q	3.2	Q	32.8
Other Business Use	2.2	2.2	Q	2.8	Q	37.5
Battery Operated Appliances/Tools						
Use Battery Operated Appliances/Tools	25.5	33.9	16.2	21.7	19.4	9.7
How Maintained When Not in Use						
Plugged in All The Time	6.5	8.2	Q	6.5	Q	15.8
Recharged As Needed	16.6	22.4	12.9	13.1	13.4	12.0
Both Ways are Used	2.4	3.4	Q	2.0	Q	44.3
Don't Use Any	74.5	66.1	83.8	78.3	80.6	2.9

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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. • All temperatures listed are in degrees Fahrenheit. • Because of rounding, data may not sum to totals. • Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report.

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

**Table HC6-7b. Usage Indicators by Four Most Populated States,
Percent of U.S. Households, 1997**

Usage Indicators	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.2	1.1	1.3	1.5	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Weekday Home Activities						
Home Used for Business						
Yes	7.2	7.4	7.5	6.0	6.4	13.5
No	92.8	92.6	92.5	94.0	93.6	2.2
Energy-Intensive Activity						
Yes	2.4	Q	3.2	2.1	Q	26.0
No	97.6	98.3	96.8	97.9	97.1	1.5
Someone Home All Day						
Yes	50.6	55.4	50.8	49.9	57.1	3.2
No	49.4	44.6	49.2	50.1	42.9	3.6
Heating						
Thermostat Available During Heating Season						
Yes	84.7	67.6	76.2	83.7	85.1	3.2
No	14.5	32.1	22.8	15.9	11.1	13.1
Do Not Heat Home	0.8	0.3	Q	Q	Q	24.0
Set-Back or Clock Thermostat in Home						
Yes	44.2	37.1	51.0	54.1	60.0	8.1
No	55.8	62.9	49.0	45.9	40.0	7.8
Use of Set-Back/Clock Thermostat for Heating						
Programming Features Used	11.5	12.7	13.7	9.6	12.3	15.8
Only Manual Controls Used	32.7	24.5	37.3	44.5	47.7	11.0
Winter Temperature Settings						
Lower When No One Home						
Yes	44.8	34.4	59.2	42.7	38.9	4.0
No	55.2	65.6	40.8	57.3	61.1	3.1
Lower During Sleeping Hours						
Yes	46.8	39.2	64.6	45.7	43.0	3.9
No	53.2	60.8	35.4	54.3	57.0	3.6
Daytime Winter Temperature When Someone is at Home						
Heat is Turned On	92.5	84.3	85.6	91.8	79.4	2.7
63 Degrees or Less	3.8	3.8	6.3	1.3	1.2	26.4
64 to 66 Degrees	8.1	10.3	13.8	5.1	6.1	12.7
67 to 69 Degrees	23.0	22.8	21.5	15.6	9.8	9.1
70 Degrees	25.3	22.6	25.4	24.2	14.9	8.2
71 to 73 Degrees	14.5	11.1	7.3	14.4	14.9	8.3
74 Degrees or More	17.8	13.8	11.2	31.2	32.4	8.9
Heat Turned Off	2.1	Q	9.8	Q	10.3	22.0
Unknown/No Answer	5.4	15.7	4.6	7.7	10.4	22.3

See footnotes at end of table.

**Table HC6-7b. Usage Indicators by Four Most Populated States,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.2	1.1	1.3	1.5	
Daytime Winter Temperature When No One is at Home						
Heat is Turned On	83.7	82.4	58.3	79.8	61.6	3.3
63 Degrees or Less	19.4	17.5	22.2	16.5	9.0	13.5
64 to 66 Degrees	16.3	17.0	13.2	9.7	11.1	9.9
67 to 69 Degrees	17.8	17.2	9.6	15.0	6.7	11.0
70 Degrees	14.6	16.4	8.4	20.7	9.6	10.6
71 to 73 Degrees	7.5	6.7	2.4	6.8	6.9	14.2
74 Degrees or More	8.1	7.6	Q	11.1	18.3	12.5
Heat Turned Off	10.2	1.4	35.8	12.7	28.1	11.7
Unknown/No Answer	6.1	16.2	5.9	7.4	10.2	18.7
Winter Temperature During Sleeping Hours						
Heat is Turned On	87.8	83.0	64.6	89.1	73.1	3.0
63 Degrees or Less	16.2	15.8	21.4	11.0	4.7	13.3
64 to 66 Degrees	16.6	19.4	13.1	15.8	10.7	7.5
67 to 69 Degrees	19.3	19.2	11.6	15.7	10.3	8.8
70 Degrees	17.3	14.5	10.9	21.6	11.4	10.3
71 to 73 Degrees	8.3	5.1	3.1	8.9	11.3	13.5
74 Degrees or More	10.1	8.9	4.5	16.0	24.6	16.4
Heat Turned Off	7.1	1.2	31.6	4.9	16.9	17.7
Unknown/No Answer	5.0	15.8	3.8	6.0	10.0	23.1
Air-Conditioning						
Central Air-Conditioning Use						
Use a Central System	47.1	18.5	28.9	69.1	83.2	5.3
All Summer	24.3	5.4	6.1	52.8	61.0	9.4
Quite a Bit	10.3	6.4	7.0	8.9	10.6	12.6
Only a Few Times	12.2	6.7	14.6	6.9	10.4	16.1
Not at All	0.3	Q	1.2	0.5	1.1	29.0
No Central System	52.9	81.5	71.1	30.9	16.8	5.2
Use of Set-Back/Clock Thermostat for Cooling						
Programming Features Used	4.9	3.0	2.2	10.1	9.3	16.7
Only Manual Controls Used	13.3	5.8	6.0	30.9	40.3	16.7
Used Only for Heating	0.4	Q	Q	Q	Q	57.5
Window Air-Conditioning Use						
Use Window Units	26.1	44.5	12.9	23.5	14.8	10.0
All Summer	5.6	5.5	1.9	10.0	4.9	22.7
Quite a Bit	6.5	11.5	2.3	5.9	3.3	18.6
Only a Few Times	13.3	27.1	8.4	7.6	5.4	11.2
Not at All	0.7	Q	Q	Q	1.1	36.2
No Window Units	73.9	55.5	87.1	76.5	85.2	2.9
Hot Water						
Number of Showers/Baths Taken Each Week						
Fewer than 10	27.9	28.0	24.7	23.5	21.8	6.9
10 to 20	46.0	45.5	49.5	40.5	42.8	4.4
More than 20	26.0	26.2	25.5	35.7	34.6	6.7
Not Applicable	0.2	0.4	0.3	Q	Q	43.3

See footnotes at end of table.

**Table HC6-7b. Usage Indicators by Four Most Populated States,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.2	1.1	1.3	1.5	
Hot Water (continued)						
Dishwasher Use						
Each Week						
Use a Dishwasher	50.2	46.0	47.5	54.7	58.0	6.1
Less Than 4 Times	28.3	25.9	27.8	30.0	35.7	8.6
4 to 6 Times	12.7	11.1	12.0	13.1	13.7	11.7
At Least Once Each Day	9.2	9.0	7.6	11.6	8.7	12.7
No Dishwasher	49.8	54.0	52.5	45.3	42.0	6.4
Loads of Laundry						
Washed Each Week						
Use a Clothes Washer	77.4	66.6	60.7	73.0	81.8	4.3
1 Load or Less	5.2	6.3	4.7	4.2	6.8	19.2
2 to 9 Loads	29.4	28.6	24.2	23.6	35.9	7.5
10 to 15 Loads	10.0	7.8	5.7	10.6	9.2	12.4
More than 15 Loads	3.3	3.1	1.5	3.8	2.2	23.7
No Washing Machine	22.6	33.4	39.3	27.0	18.2	11.5
Clothes Dryer Usage						
Use a Clothes Dryer	71.2	54.5	57.1	69.6	73.7	4.1
Every Time Clothes are Washed	56.3	40.0	47.4	61.6	64.6	6.1
Some, but not All, Loads	12.8	11.3	8.3	7.1	7.2	15.5
Used Infrequently	2.1	3.1	1.4	Q	1.9	20.1
No Dryer	28.8	45.5	42.9	30.4	26.3	7.9
Cooking						
Number of Hot Meals						
Cooked in the Home						
3 or More Times a Day	6.9	8.6	8.6	8.1	12.8	11.6
2 Times a Day	25.3	19.5	25.4	25.9	21.2	8.5
Once a Day	41.6	43.0	41.7	37.4	41.3	6.9
A Few Times Each Week	20.1	20.3	19.3	20.4	18.7	10.5
About Once a Week	3.0	4.2	1.5	5.2	2.8	20.8
Less Than Once a Week	3.0	Q	3.3	2.9	3.2	28.5
Conventional Oven Use						
More Than Once a Day	8.1	7.5	7.7	9.3	7.8	17.4
Once a Day	20.2	16.5	16.4	22.2	19.5	8.7
Between Once a Day and Once a Week	34.4	29.4	32.2	34.2	30.7	6.9
Once a Week	14.9	17.8	11.8	13.7	19.0	8.2
Less Than Once a Week	21.2	28.0	29.5	19.6	21.5	8.4
Amount of Food Cooked						
in Microwave Oven						
Use a Microwave Oven	83.0	75.9	82.1	79.7	84.0	2.1
Most or All	7.2	6.1	8.8	7.7	7.5	16.8
About Half	18.2	9.6	20.6	18.7	20.4	9.0
Some or Very Little	21.9	20.3	20.9	16.0	20.5	12.6
Only for Defrosting, Reheating, or Snacks	35.6	39.9	31.9	37.3	35.5	6.8
No Microwave Oven	17.0	24.1	17.9	20.3	16.0	9.3

See footnotes at end of table.

**Table HC6-7b. Usage Indicators by Four Most Populated States,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.2	1.1	1.3	1.5	
Lights						
Outdoor Lights on All Night						
Used	25.9	19.6	20.4	35.8	29.6	9.4
Not Used	74.1	80.4	79.6	64.2	70.4	3.3
Gas Fireplace Usage During Winter Months						
Use a Gas Fireplace	2.7	1.6	Q	Q	Q	13.8
Most Days	1.1	Q	Q	Q	Q	39.1
Almost Once a Week	0.7	1.0	Q	Q	Q	40.4
Less Than 4 Times a Month	0.8	Q	Q	Q	Q	76.4
Personal Computer Usage	35.1	31.6	39.9	36.7	33.2	5.9
Hours PC Turned On Each Week						
Less Than 2 Hours	8.1	6.6	6.8	6.6	5.2	17.3
2 to 15 Hours	17.1	15.5	19.9	18.8	17.4	10.8
16 to 40 Hours	6.6	7.2	9.1	6.3	6.0	14.3
On All The Time	3.3	2.3	4.1	5.0	4.6	17.5
Use of PCs Turned on 16 Hours a Week or More						
Personal Use Only	4.7	3.6	5.3	6.8	4.9	16.2
Business Use Only	2.1	2.0	3.6	1.0	Q	27.8
Both Personal and Business	3.1	3.9	4.2	3.4	5.7	24.8
Business Use of PCs Turned on 16 Hours a Week or More						
Use to Telecommute	2.1	2.4	4.3	2.2	Q	22.9
Other Business Use	3.1	3.6	3.5	Q	4.8	27.4
Battery Operated Appliances/Tools						
Use Battery Operated Appliances/Tools						
How Maintained When Not in Use	43.7	38.9	43.7	46.0	42.1	5.1
Plugged in All The Time	12.3	9.2	8.1	12.5	13.7	11.9
Recharged As Needed	26.6	26.7	26.0	26.5	26.2	7.1
Both Ways are Used	4.8	2.9	9.6	7.1	2.3	17.4
Don't Use Any	56.3	61.1	56.3	54.0	57.9	3.8

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report. • All temperatures listed are in degrees Fahrenheit.

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

Table HC6-8b. Usage Indicators by Urban/Rural Location, Percent of U.S. Households, 1997

Usage Indicators	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
		0.6	0.8	1.3	1.3	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Weekday Home Activities						
Home Used for Business						
Yes	7.2	6.0	5.7	7.0	13.1	11.0
No	92.8	94.0	94.3	93.0	86.9	0.9
Energy-Intensive Activity						
Yes	2.4	1.9	1.8	2.8	3.7	18.3
No	97.6	98.1	98.2	97.2	96.3	NE
Someone Home All Day						
Yes	50.6	49.0	52.7	51.3	52.0	2.7
No	49.4	51.0	47.3	48.7	48.0	2.8
Heating						
Thermostat Available During Heating Season						
Yes	84.7	80.7	88.3	93.1	83.2	1.4
No	14.5	18.3	11.5	6.0	16.4	9.5
Do Not Heat Home	0.8	1.0	Q	0.9	Q	25.2
Set-Back or Clock Thermostat in Home						
Yes	44.2	43.2	44.2	50.9	39.7	5.6
No	55.8	56.8	55.8	49.1	60.3	4.5
Use of Set-Back/Clock Thermostat for Heating						
Programming Features Used	11.5	10.8	10.4	16.9	8.7	9.1
Only Manual Controls Used	32.7	32.4	33.9	34.0	31.0	7.4
Winter Temperature Settings						
Lower When No One Home						
Yes	44.8	43.2	47.9	44.0	46.8	3.0
No	55.2	56.8	52.1	56.0	53.2	2.5
Lower During Sleeping Hours						
Yes	46.8	45.5	49.1	46.8	47.7	3.1
No	53.2	54.5	50.9	53.2	52.3	2.8
Daytime Winter Temperature When Someone is at Home						
Heat is Turned On	92.5	89.2	95.4	94.9	96.2	1.0
63 Degrees or Less	3.8	4.1	4.7	1.9	3.7	16.2
64 to 66 Degrees	8.1	7.2	9.7	7.8	9.7	9.1
67 to 69 Degrees	23.0	19.7	24.8	30.2	22.8	4.8
70 Degrees	25.3	24.5	26.0	24.8	27.1	4.3
71 to 73 Degrees	14.5	14.0	13.8	15.4	16.0	6.7
74 Degrees or More	17.8	19.8	16.5	14.8	16.9	6.4
Heat Turned Off	2.1	3.2	1.4	Q	Q	20.7
Unknown/No Answer	5.4	7.6	3.2	4.0	3.0	18.3

See footnotes at end of table.

**Table HC6-8b. Usage Indicators by Urban/Rural Location,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
RSE Column Factor:	0.6	0.8	1.3	1.3	1.3	
Daytime Winter Temperature When No One is at Home						
Heat is Turned On	83.7	77.7	88.9	89.4	88.8	1.5
63 Degrees or Less	19.4	16.9	23.8	19.4	22.0	5.6
64 to 66 Degrees	16.3	14.8	18.9	16.8	17.2	5.1
67 to 69 Degrees	17.8	15.5	18.2	23.0	18.2	6.0
70 Degrees	14.6	14.0	14.8	14.8	15.9	6.0
71 to 73 Degrees	7.5	7.2	6.3	8.8	8.1	9.8
74 Degrees or More	8.1	9.4	6.9	6.5	7.5	9.8
Heat Turned Off	10.2	14.4	6.7	5.9	6.8	11.1
Unknown/No Answer	6.1	7.9	4.3	4.7	4.4	15.6
Winter Temperature During Sleeping Hours						
Heat is Turned On	87.8	83.1	91.9	92.7	91.6	1.2
63 Degrees or Less	16.2	14.5	20.2	14.1	19.1	6.7
64 to 66 Degrees	16.6	14.6	16.6	20.2	18.4	5.0
67 to 69 Degrees	19.3	16.1	22.9	24.0	19.5	5.8
70 Degrees	17.3	17.4	17.5	16.8	17.6	5.4
71 to 73 Degrees	8.3	8.7	6.7	8.8	8.3	9.1
74 Degrees or More	10.1	11.9	8.0	8.8	8.7	9.4
Heat Turned Off	7.1	9.8	5.5	3.5	5.5	13.4
Unknown/No Answer	5.0	7.1	2.6	3.8	3.0	19.1
Air-Conditioning						
Central Air-Conditioning Use						
Use a Central System	47.1	43.0	42.8	64.3	44.2	3.8
All Summer	24.3	22.2	22.2	32.4	23.4	6.0
Quite a Bit	10.3	9.0	8.5	15.6	10.0	8.5
Only a Few Times	12.2	11.3	12.0	16.3	10.5	9.1
Not at All	0.3	0.5	Q	Q	Q	29.4
No Central System	52.9	57.0	57.2	35.7	55.8	3.6
Use of Set-Back/Clock Thermostat for Cooling						
Programming Features Used	4.9	3.9	4.9	8.5	3.6	13.7
Only Manual Controls Used	13.3	12.5	11.3	17.2	13.3	10.1
Used Only for Heating	0.4	0.4	0.8	Q	Q	34.8
Window Air-Conditioning Use						
Use Window Units	26.1	27.4	30.6	17.0	27.5	5.7
All Summer	5.6	5.6	6.3	3.7	6.9	11.7
Quite a Bit	6.5	6.8	7.0	4.6	7.1	9.9
Only a Few Times	13.3	14.3	16.6	7.9	13.0	7.6
Not at All	0.7	0.7	0.6	Q	Q	29.7
No Window Units	73.9	72.6	69.4	83.0	72.5	1.9
Hot Water						
Number of Showers/Baths Taken Each Week						
Fewer than 10	27.9	29.7	31.5	23.9	23.0	4.0
10 to 20	46.0	45.0	42.2	47.1	52.1	2.8
More than 20	26.0	25.2	26.2	29.0	24.4	4.4
Not Applicable	0.2	0.1	Q	Q	Q	51.3

See footnotes at end of table.

**Table HC6-8b. Usage Indicators by Urban/Rural Location,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
RSE Column Factor:	0.6	0.8	1.3	1.3	1.3	
Hot Water (continued)						
Dishwasher Use						
Each Week						
Use a Dishwasher	50.2	42.2	48.8	71.9	50.6	3.2
Less Than 4 Times	28.3	25.5	26.0	38.6	27.2	4.8
4 to 6 Times	12.7	9.9	13.1	19.7	12.6	7.6
At Least Once Each Day	9.2	6.8	9.7	13.6	10.8	8.8
No Dishwasher	49.8	57.8	51.2	28.1	49.4	3.6
Loads of Laundry						
Washed Each Week						
Use a Clothes Washer	77.4	67.5	80.9	88.4	90.1	1.7
1 Load or Less	5.2	5.1	6.0	5.8	4.0	12.4
2 to 9 Loads	29.4	27.0	30.7	31.6	32.4	4.3
10 to 15 Loads	10.0	7.9	11.6	10.8	13.6	8.2
More than 15 Loads	3.3	2.0	4.5	3.9	5.0	13.7
No Washing Machine	22.6	32.5	19.1	11.6	9.9	8.0
Clothes Dryer Usage						
Use a Clothes Dryer	71.2	59.8	74.6	85.0	84.9	2.0
Every Time Clothes are Washed	56.3	48.0	58.8	71.7	60.1	3.1
Some, but not All, Loads	12.8	10.1	13.1	11.5	21.5	7.4
Used Infrequently	2.1	1.6	2.7	1.8	3.3	16.8
No Dryer	28.8	40.2	25.4	15.0	15.1	6.5
Cooking						
Number of Hot Meals						
Cooked in the Home						
3 or More Times a Day	6.9	8.1	7.1	4.8	5.8	10.0
2 Times a Day	25.3	24.9	23.8	21.2	32.6	5.0
Once a Day	41.6	38.7	44.3	46.3	41.5	3.3
A Few Times Each Week	20.1	21.6	17.7	22.3	15.5	7.1
About Once a Week	3.0	3.0	3.5	2.9	2.7	14.0
Less Than Once a Week	3.0	3.4	3.2	2.5	1.9	17.5
Conventional Oven Use						
More Than Once a Day	8.1	8.0	8.7	5.7	10.5	9.5
Once a Day	20.2	18.7	21.2	19.4	24.5	5.6
Between Once a Day and Once a Week	34.4	32.7	36.2	37.2	33.9	3.6
Once a Week	14.9	14.9	12.8	17.1	14.9	6.1
Less Than Once a Week	21.2	24.2	20.3	19.8	14.9	5.5
Amount of Food Cooked						
in Microwave Oven						
Use a Microwave Oven	83.0	78.6	86.5	88.1	85.9	1.5
Most or All	7.2	7.6	7.3	7.8	5.4	10.4
About Half	18.2	16.8	19.7	21.4	16.9	5.9
Some or Very Little	21.9	20.4	22.8	23.6	23.7	6.0
Only for Defrosting, Reheating, or Snacks	35.6	33.9	36.8	35.3	40.0	4.6
No Microwave Oven	17.0	21.4	13.5	11.9	14.1	8.3

See footnotes at end of table.

**Table HC6-8b. Usage Indicators by Urban/Rural Location,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total	Urban/Rural Location ¹				RSE Row Factors
		City	Town	Suburbs	Rural	
RSE Column Factor:	0.6	0.8	1.3	1.3	1.3	
Lights						
Outdoor Lights on All Night						
Used	25.9	23.5	20.3	29.8	34.9	5.0
Not Used	74.1	76.5	79.7	70.2	65.1	1.8
Gas Fireplace Usage During Winter Months						
Use a Gas Fireplace	2.7	2.2	2.4	4.2	2.4	19.8
Most Days	1.1	1.1	1.4	0.8	1.2	26.6
Almost Once a Week	0.7	0.4	Q	2.0	Q	31.4
Less Than 4 Times a Month	0.8	0.7	Q	1.4	Q	40.3
Personal Computer Usage	35.1	32.9	30.9	48.0	31.3	4.1
Hours PC Turned On Each Week						
Less Than 2 Hours	8.1	7.5	7.8	9.0	8.8	9.3
2 to 15 Hours	17.1	16.0	14.9	25.5	13.4	6.2
16 to 40 Hours	6.6	6.3	5.6	8.5	6.2	10.0
On All The Time	3.3	3.0	2.6	5.0	3.0	14.9
Use of PCs Turned on 16 Hours a Week or More						
Personal Use Only	4.7	4.7	3.8	6.2	4.2	12.3
Business Use Only	2.1	1.7	2.1	3.3	1.9	19.0
Both Personal and Business	3.1	3.0	2.3	4.0	3.1	16.2
Business Use of PCs Turned on 16 Hours a Week or More						
Use to Telecommute	2.1	2.2	1.2	2.9	1.7	19.9
Other Business Use	3.1	2.5	3.2	4.4	3.3	15.3
Battery Operated Appliances/Tools						
Use Battery Operated Appliances/Tools	43.7	37.0	45.2	54.1	50.3	3.0
How Maintained When Not in Use						
Plugged in All The Time	12.3	10.3	13.1	17.2	11.5	7.5
Recharged As Needed	26.6	22.4	26.9	31.6	32.9	4.1
Both Ways are Used	4.8	4.2	5.1	5.3	5.9	10.7
Don't Use Any	56.3	63.0	54.8	45.9	49.7	2.6

¹ Based on the household respondent's description rather than the Federal Government definition.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report. • All temperatures listed are in degrees Fahrenheit.

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

**Table HC6-9b. Usage Indicators by Northeast Census Region,
Percent of U.S. Households, 1997**

Usage Indicators	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.1	1.3	1.4	
Total	100.0	100.0	100.0	100.0	0.0
Weekday Home Activities					
Home Used for Business					
Yes	7.2	7.3	7.1	7.8	17.2
No	92.8	92.7	92.9	92.2	1.5
Energy-Intensive Activity					
Yes	2.4	1.9	1.5	3.1	20.5
No	97.6	98.1	98.5	96.9	NE
Someone Home All Day					
Yes	50.6	52.7	53.4	50.7	2.9
No	49.4	47.3	46.6	49.3	3.1
Heating					
Thermostat Available During Heating Season					
Yes	84.7	81.5	79.2	87.5	1.4
No	14.5	18.4	20.6	12.5	7.8
Do Not Heat Home	0.8	Q	Q	Q	38.2
Set-Back or Clock Thermostat in Home					
Yes	44.2	37.3	38.5	33.9	9.0
No	55.8	62.7	61.5	66.1	5.6
Use of Set-Back/Clock Thermostat for Heating					
Programming Features Used	11.5	11.0	12.0	8.4	14.0
Only Manual Controls Used	32.7	26.3	26.5	25.6	12.0
Winter Temperature Settings					
Lower When No One Home					
Yes	44.8	40.3	35.8	52.4	3.3
No	55.2	59.7	64.2	47.6	2.5
Lower During Sleeping Hours					
Yes	46.8	41.8	38.9	49.8	4.0
No	53.2	58.2	61.1	50.2	3.2
Daytime Winter Temperature When Someone is at Home					
Heat is Turned On	92.5	92.5	91.3	95.8	1.4
63 Degrees or Less	3.8	5.4	4.7	7.6	19.6
64 to 66 Degrees	8.1	11.0	10.5	12.6	6.2
67 to 69 Degrees	23.0	30.3	28.5	35.1	4.6
70 Degrees	25.3	25.1	25.1	24.9	6.1
71 to 73 Degrees	14.5	10.6	11.4	8.5	7.2
74 Degrees or More	17.8	10.0	11.0	7.2	9.5
Heat Turned Off	2.1	Q	Q	Q	26.8
Unknown/No Answer	5.4	7.2	8.6	3.7	20.4

See footnotes at end of table.

**Table HC6-9b. Usage Indicators by Northeast Census Region,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.1	1.3	1.4	
Daytime Winter Temperature When No One is at Home					
Heat is Turned On	83.7	91.0	89.6	94.7	1.4
63 Degrees or Less	19.4	23.1	19.4	33.2	7.0
64 to 66 Degrees	16.3	19.7	19.0	21.5	4.8
67 to 69 Degrees	17.8	21.5	21.9	20.3	7.1
70 Degrees	14.6	15.3	16.1	13.0	7.6
71 to 73 Degrees	7.5	6.3	7.0	4.2	15.1
74 Degrees or More	8.1	5.2	6.2	2.4	12.2
Heat Turned Off	10.2	1.2	1.3	Q	16.0
Unknown/No Answer	6.1	7.8	9.1	4.3	18.2
Winter Temperature During Sleeping Hours					
Heat is Turned On	87.8	92.0	90.7	95.5	1.4
63 Degrees or Less	16.2	20.7	16.9	30.9	8.8
64 to 66 Degrees	16.6	19.9	20.5	18.2	5.2
67 to 69 Degrees	19.3	23.1	23.1	22.9	6.7
70 Degrees	17.3	16.5	16.7	16.0	6.2
71 to 73 Degrees	8.3	5.7	6.6	3.3	14.8
74 Degrees or More	10.1	6.1	6.8	4.1	13.4
Heat Turned Off	7.1	0.7	Q	Q	19.2
Unknown/No Answer	5.0	7.3	8.7	3.6	20.8
Air-Conditioning					
Central Air-Conditioning Use					
Use a Central System	47.1	22.2	27.5	7.8	11.1
All Summer	24.3	6.9	9.0	Q	9.1
Quite a Bit	10.3	5.5	7.0	Q	17.3
Only a Few Times	12.2	9.7	11.6	4.8	14.9
Not at All	0.3	Q	Q	Q	40.0
No Central System	52.9	77.8	72.5	92.2	3.3
Use of Set-Back/Clock Thermostat for Cooling					
Programming Features Used	4.9	2.9	3.9	Q	22.2
Only Manual Controls Used	13.3	4.3	5.9	Q	17.8
Used Only for Heating	0.4	Q	Q	Q	45.0
Window Air-Conditioning Use					
Use Window Units	26.1	41.4	41.4	41.2	7.0
All Summer	5.6	4.3	4.2	4.4	16.3
Quite a Bit	6.5	9.0	9.1	8.7	8.4
Only a Few Times	13.3	26.6	26.7	26.4	8.2
Not at All	0.7	1.5	1.4	Q	28.8
No Window Units	73.9	58.6	58.6	58.8	4.2
Hot Water					
Number of Showers/Baths Taken Each Week					
Fewer than 10	27.9	29.2	28.6	30.9	3.5
10 to 20	46.0	46.7	45.8	49.1	2.3
More than 20	26.0	24.0	25.4	20.0	4.1
Not Applicable	0.2	Q	Q	Q	69.9

See footnotes at end of table.

**Table HC6-9b. Usage Indicators by Northeast Census Region,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.1	1.3	1.4	
Hot Water (continued)					
Dishwasher Use					
Each Week					
Use a Dishwasher	50.2	48.5	48.9	47.5	3.9
Less Than 4 Times	28.3	27.6	28.4	25.6	5.2
4 to 6 Times	12.7	12.1	11.7	13.0	6.8
At Least Once Each Day	9.2	8.8	8.8	8.9	13.3
No Dishwasher	49.8	51.5	51.1	52.5	3.7
Loads of Laundry					
Washed Each Week					
Use a Clothes Washer	77.4	76.0	76.5	74.5	2.2
1 Load or Less	5.2	6.6	7.1	5.5	14.1
2 to 9 Loads	29.4	31.2	32.3	28.3	3.6
10 to 15 Loads	10.0	9.5	9.5	9.4	8.2
More than 15 Loads	3.3	3.7	3.7	3.7	13.2
No Washing Machine	22.6	24.0	23.5	25.5	7.1
Clothes Dryer Usage					
Use a Clothes Dryer	71.2	66.7	67.2	65.2	2.3
Every Time Clothes are Washed	56.3	47.1	48.8	42.5	4.1
Some, but not All, Loads	12.8	16.1	15.7	17.1	10.1
Used Infrequently	2.1	3.5	2.7	5.6	14.4
No Dryer	28.8	33.3	32.8	34.8	4.9
Cooking					
Number of Hot Meals					
Cooked in the Home					
3 or More Times a Day	6.9	6.7	7.2	5.1	10.2
2 Times a Day	25.3	20.9	18.8	26.7	6.5
Once a Day	41.6	45.6	45.7	45.5	3.6
A Few Times Each Week	20.1	19.0	19.7	17.1	8.3
About Once a Week	3.0	4.0	4.8	Q	12.6
Less Than Once a Week	3.0	3.6	3.7	3.3	20.7
Conventional Oven Use					
More Than Once a Day	8.1	6.6	5.9	8.5	11.7
Once a Day	20.2	19.6	18.5	22.5	6.3
Between Once a Day and Once a Week	34.4	32.4	31.4	34.9	4.2
Once a Week	14.9	16.7	18.0	12.9	4.0
Less Than Once a Week	21.2	24.2	25.5	20.7	5.7
Amount of Food Cooked in Microwave Oven					
Use a Microwave Oven	83.0	78.7	78.1	80.2	1.5
Most or All	7.2	6.7	6.4	7.4	12.2
About Half	18.2	14.0	14.3	13.1	8.9
Some or Very Little	21.9	20.5	19.8	22.3	7.4
Only for Defrosting, Reheating, or Snacks	35.6	37.6	37.6	37.4	5.4
No Microwave Oven	17.0	21.3	21.9	19.8	6.4

See footnotes at end of table.

**Table HC6-9b. Usage Indicators by Northeast Census Region,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.1	1.3	1.4	
Lights					
Outdoor Lights on All Night					
Used	25.9	17.8	19.6	13.1	8.8
Not Used	74.1	82.2	80.4	86.9	2.0
Gas Fireplace Usage During Winter Months					
Use a Gas Fireplace	2.7	Q	Q	Q	26.3
Most Days	1.1	Q	Q	Q	30.6
Almost Once a Week	0.7	Q	Q	Q	39.6
Less Than 4 Times a Month	0.8	Q	Q	Q	59.8
Personal Computer Usage	35.1	31.9	30.8	35.0	5.2
Hours PC Turned On Each Week					
Less Than 2 Hours	8.1	7.6	7.1	8.9	11.5
2 to 15 Hours	17.1	14.0	13.4	15.5	5.4
16 to 40 Hours	6.6	7.9	8.0	7.7	12.3
On All The Time	3.3	2.5	2.2	3.0	19.7
Use of PCs Turned on 16 Hours a Week or More					
Personal Use Only	4.7	4.5	4.3	5.0	16.0
Business Use Only	2.1	2.3	2.3	2.4	20.6
Both Personal and Business	3.1	3.6	3.7	3.3	14.4
Business Use of PCs Turned on 16 Hours a Week or More					
Use to Telecommute	2.1	2.3	2.2	2.8	19.2
Other Business Use	3.1	3.6	3.8	2.9	14.6
Battery Operated Appliances/Tools					
Use Battery Operated Appliances/Tools	43.7	43.2	43.2	43.1	4.0
How Maintained When Not in Use					
Plugged in All The Time	12.3	12.0	11.8	12.6	7.9
Recharged As Needed	26.6	26.9	27.4	25.6	5.5
Both Ways are Used	4.8	4.3	4.0	4.9	10.7
Don't Use Any	56.3	56.8	56.8	56.9	3.0

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report. • All temperatures listed are in degrees Fahrenheit.

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

**Table HC6-10b. Usage Indicators by Midwest Census Region,
Percent of U.S. Households, 1997**

Usage Indicators	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.7	
Total	100.0	100.0	100.0	100.0	0.0
Weekday Home Activities					
Home Used for Business					
Yes	7.2	7.2	7.6	6.0	13.5
No	92.8	92.8	92.4	94.0	1.0
Energy-Intensive Activity					
Yes	2.4	2.6	2.1	3.9	15.9
No	97.6	97.4	97.9	96.1	NE
Someone Home All Day					
Yes	50.6	48.1	48.5	47.3	3.3
No	49.4	51.9	51.5	52.7	3.1
Heating					
Thermostat Available During Heating Season					
Yes	84.7	91.1	90.7	92.1	1.3
No	14.5	8.9	9.3	7.9	12.3
Do Not Heat Home	0.8	Q	Q	Q	36.6
Set-Back or Clock Thermostat in Home					
Yes	44.2	42.9	38.1	54.5	8.9
No	55.8	57.1	61.9	45.5	7.2
Use of Set-Back/Clock Thermostat for Heating					
Programming Features Used	11.5	13.1	11.1	17.9	9.5
Only Manual Controls Used	32.7	29.8	27.0	36.6	12.6
Winter Temperature Settings					
Lower When No One Home					
Yes	44.8	41.6	38.2	49.6	4.2
No	55.2	58.4	61.8	50.4	3.2
Lower During Sleeping Hours					
Yes	46.8	40.3	38.1	45.6	4.0
No	53.2	59.7	61.9	54.4	3.0
Daytime Winter Temperature When Someone is at Home					
Heat is Turned On	92.5	96.4	95.5	98.3	0.6
63 Degrees or Less	3.8	2.8	3.2	2.0	18.1
64 to 66 Degrees	8.1	6.3	5.8	7.4	10.4
67 to 69 Degrees	23.0	26.2	25.6	27.9	4.0
70 Degrees	25.3	25.9	24.5	29.1	4.8
71 to 73 Degrees	14.5	20.7	21.9	18.0	6.0
74 Degrees or More	17.8	14.4	14.6	14.0	9.4
Heat Turned Off	2.1	Q	Q	Q	25.8
Unknown/No Answer	5.4	3.6	4.5	Q	16.5

See footnotes at end of table.

**Table HC6-10b. Usage Indicators by Midwest Census Region,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.7	
Daytime Winter Temperature When No One is at Home					
Heat is Turned On	83.7	95.1	94.3	97.1	0.8
63 Degrees or Less	19.4	18.0	16.5	21.4	7.6
64 to 66 Degrees	16.3	18.0	16.8	20.8	4.7
67 to 69 Degrees	17.8	21.7	20.7	24.2	7.3
70 Degrees	14.6	16.4	17.0	15.2	7.8
71 to 73 Degrees	7.5	12.7	14.0	9.7	11.0
74 Degrees or More	8.1	8.3	9.3	5.9	11.3
Heat Turned Off	10.2	0.9	Q	Q	19.1
Unknown/No Answer	6.1	4.0	4.9	Q	16.8
Winter Temperature During Sleeping Hours					
Heat is Turned On	87.8	96.5	95.7	98.3	0.6
63 Degrees or Less	16.2	12.7	12.0	14.1	8.8
64 to 66 Degrees	16.6	17.4	16.2	20.5	4.5
67 to 69 Degrees	19.3	23.8	22.1	27.9	5.9
70 Degrees	17.3	19.5	19.6	19.1	6.8
71 to 73 Degrees	8.3	13.1	15.0	8.6	8.1
74 Degrees or More	10.1	10.0	10.8	8.2	12.0
Heat Turned Off	7.1	Q	Q	Q	13.3
Unknown/No Answer	5.0	3.5	4.3	Q	18.1
Air-Conditioning					
Central Air-Conditioning Use					
Use a Central System	47.1	51.4	47.6	60.3	4.2
All Summer	24.3	17.2	14.6	23.3	9.6
Quite a Bit	10.3	14.8	14.9	14.5	9.4
Only a Few Times	12.2	19.2	18.1	22.0	7.3
Not at All	0.3	Q	Q	Q	38.3
No Central System	52.9	48.6	52.4	39.7	4.5
Use of Set-Back/Clock Thermostat for Cooling					
Programming Features Used	4.9	6.0	4.5	9.6	14.7
Only Manual Controls Used	13.3	10.5	8.9	14.4	14.9
Used Only for Heating	0.4	Q	Q	Q	43.2
Window Air-Conditioning Use					
Use Window Units	26.1	27.3	26.7	28.8	7.7
All Summer	5.6	3.9	4.2	3.4	15.2
Quite a Bit	6.5	7.9	8.4	6.9	12.8
Only a Few Times	13.3	14.6	13.3	17.6	9.0
Not at All	0.7	0.9	Q	Q	27.2
No Window Units	73.9	72.7	73.3	71.2	2.9
Hot Water					
Number of Showers/Baths Taken Each Week					
Fewer than 10	27.9	30.6	31.2	29.2	4.7
10 to 20	46.0	45.2	45.2	45.2	2.8
More than 20	26.0	24.3	23.7	25.7	5.9
Not Applicable	0.2	Q	Q	Q	67.1

See footnotes at end of table.

**Table HC6-10b. Usage Indicators by Midwest Census Region,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.7	
Hot Water (continued)					
Dishwasher Use					
Each Week					
Use a Dishwasher	50.2	46.9	45.3	50.7	3.6
Less Than 4 Times	28.3	25.0	24.5	26.1	5.7
4 to 6 Times	12.7	13.2	12.4	15.0	9.1
At Least Once Each Day	9.2	8.7	8.4	9.5	11.7
No Dishwasher	49.8	53.1	54.7	49.3	3.3
Loads of Laundry					
Washed Each Week					
Use a Clothes Washer	77.4	78.9	76.1	85.6	2.0
1 Load or Less	5.2	4.3	4.8	3.2	13.6
2 to 9 Loads	29.4	25.5	24.2	28.4	4.0
10 to 15 Loads	10.0	12.7	12.7	12.7	8.2
More than 15 Loads	3.3	4.0	3.4	5.3	10.6
No Washing Machine	22.6	21.1	23.9	14.4	7.9
Clothes Dryer Usage					
Use a Clothes Dryer	71.2	75.8	73.0	82.3	2.4
Every Time Clothes are Washed	56.3	58.3	57.1	61.1	2.5
Some, but not All, Loads	12.8	15.9	14.3	19.6	6.9
Used Infrequently	2.1	1.6	1.6	Q	18.0
No Dryer	28.8	24.2	27.0	17.7	7.4
Cooking					
Number of Hot Meals					
Cooked in the Home					
3 or More Times a Day	6.9	5.3	5.7	4.6	9.1
2 Times a Day	25.3	25.7	25.5	26.1	3.9
Once a Day	41.6	44.8	42.1	51.2	3.4
A Few Times Each Week	20.1	19.1	20.7	15.2	5.6
About Once a Week	3.0	2.8	3.6	Q	15.0
Less Than Once a Week	3.0	2.2	2.3	Q	19.6
Conventional Oven Use					
More Than Once a Day	8.1	7.2	7.2	7.4	9.9
Once a Day	20.2	19.8	19.8	19.8	7.3
Between Once a Day and Once a Week	34.4	38.0	37.8	38.5	3.6
Once a Week	14.9	13.5	13.1	14.4	8.1
Less Than Once a Week	21.2	20.5	21.5	18.1	5.6
Amount of Food Cooked in Microwave Oven					
Use a Microwave Oven	83.0	86.9	85.0	91.4	1.5
Most or All	7.2	7.2	7.3	7.1	13.2
About Half	18.2	19.3	19.0	19.9	5.6
Some or Very Little	21.9	24.8	25.4	23.4	5.5
Only for Defrosting, Reheating, or Snacks	35.6	35.6	33.3	41.0	6.9
No Microwave Oven	17.0	13.1	15.0	8.6	10.5

See footnotes at end of table.

**Table HC6-10b. Usage Indicators by Midwest Census Region,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.7	
Lights					
Outdoor Lights on All Night					
Used	25.9	26.1	28.3	21.1	5.4
Not Used	74.1	73.9	71.7	78.9	1.8
Gas Fireplace Usage During Winter Months					
Use a Gas Fireplace	2.7	3.6	4.1	2.5	24.8
Most Days	1.1	1.5	1.5	Q	32.3
Almost Once a Week	0.7	Q	Q	Q	38.0
Less Than 4 Times a Month	0.8	Q	Q	Q	57.4
Personal Computer Usage	35.1	38.0	38.0	37.9	4.0
Hours PC Turned On Each Week					
Less Than 2 Hours	8.1	9.7	10.1	8.6	9.3
2 to 15 Hours	17.1	18.1	16.5	21.8	7.1
16 to 40 Hours	6.6	7.4	8.7	4.2	10.1
On All The Time	3.3	2.9	2.7	3.4	16.4
Use of PCs Turned on 16 Hours a Week or More					
Personal Use Only	4.7	5.2	5.7	4.0	13.1
Business Use Only	2.1	2.5	3.0	Q	21.4
Both Personal and Business	3.1	2.6	2.7	2.3	21.9
Business Use of PCs Turned on 16 Hours a Week or More					
Use to Telecommute	2.1	1.7	2.0	Q	21.5
Other Business Use	3.1	3.3	3.7	2.5	22.6
Battery Operated Appliances/Tools					
Use Battery Operated Appliances/Tools	43.7	46.5	46.3	46.9	3.5
How Maintained When Not in Use					
Plugged in All The Time	12.3	13.8	14.3	12.4	8.8
Recharged As Needed	26.6	28.5	27.6	30.6	3.6
Both Ways are Used	4.8	4.2	4.4	3.9	14.5
Don't Use Any	56.3	53.5	53.7	53.1	3.0

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report. • All temperatures listed are in degrees Fahrenheit.

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

**Table HC6-11b. Usage Indicators by South Census Region,
Percent U.S. Households, 1997**

Usage Indicators	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.2	1.5	1.4	
Total	100.0	100.0	100.0	100.0	100.0	0.0
Weekday Home Activities						
Home Used for Business						
Yes	7.2	6.2	7.1	4.6	5.6	13.1
No	92.8	93.8	92.9	95.4	94.4	0.9
Energy-Intensive Activity						
Yes	2.4	2.1	2.4	Q	1.7	25.7
No	97.6	97.9	97.6	98.4	98.3	NE
Someone Home All Day						
Yes	50.6	50.8	49.8	51.6	51.9	2.7
No	49.4	49.2	50.2	48.4	48.1	2.8
Heating						
Thermostat Available During Heating Season						
Yes	84.7	84.5	86.9	81.7	81.9	2.3
No	14.5	14.7	11.9	18.1	17.7	11.8
Do Not Heat Home	0.8	0.8	Q	Q	Q	45.8
Set-Back or Clock Thermostat in Home						
Yes	44.2	44.0	42.0	42.9	48.2	9.4
No	55.8	56.0	58.0	57.1	51.8	7.4
Use of Set-Back/Clock Thermostat for Heating						
Programming Features Used	11.5	8.8	8.4	5.4	11.3	13.8
Only Manual Controls Used	32.7	35.3	33.6	37.4	36.9	10.9
Winter Temperature Settings						
Lower When No One Home						
Yes	44.8	42.5	43.1	39.2	43.5	4.3
No	55.2	57.5	56.9	60.8	56.5	3.2
Lower During Sleeping Hours						
Yes	46.8	45.4	45.4	43.3	46.7	4.2
No	53.2	54.6	54.6	56.7	53.3	3.5
Daytime Winter Temperature When Someone is at Home						
Heat is Turned On	92.5	92.1	91.1	93.7	92.9	1.8
63 Degrees or Less	3.8	2.3	2.1	3.3	2.2	17.6
64 to 66 Degrees	8.1	5.4	5.8	6.6	4.2	13.5
67 to 69 Degrees	23.0	18.0	20.0	16.0	15.7	7.6
70 Degrees	25.3	24.4	23.5	28.9	23.5	5.8
71 to 73 Degrees	14.5	15.0	14.4	14.4	16.4	7.6
74 Degrees or More	17.8	26.9	25.4	24.5	31.0	3.8
Heat Turned Off	2.1	2.3	3.7	Q	Q	28.1
Unknown/No Answer	5.4	5.6	5.2	4.9	6.8	22.8

See footnotes at end of table.

**Table HC6-11b. Usage Indicators by South Census Region,
Percent U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.2	1.5	1.4	
Daytime Winter Temperature When No One is at Home						
Heat is Turned On	83.7	79.9	80.3	82.7	77.7	3.0
63 Degrees or Less	19.4	16.5	16.5	14.7	17.6	7.6
64 to 66 Degrees	16.3	12.8	13.9	14.3	10.0	7.6
67 to 69 Degrees	17.8	16.4	16.6	18.3	14.9	7.0
70 Degrees	14.6	15.5	14.0	18.2	16.7	7.1
71 to 73 Degrees	7.5	6.9	6.8	6.9	7.1	11.7
74 Degrees or More	8.1	11.9	12.6	10.3	11.5	8.5
Heat Turned Off	10.2	13.5	13.6	11.0	14.9	12.6
Unknown/No Answer	6.1	6.5	6.1	6.3	7.4	21.3
Winter Temperature During Sleeping Hours						
Heat is Turned On	87.8	87.4	86.7	88.8	87.7	2.2
63 Degrees or Less	16.2	12.6	13.5	12.6	10.9	9.5
64 to 66 Degrees	16.6	13.8	13.5	14.4	13.9	5.6
67 to 69 Degrees	19.3	18.0	18.0	19.2	17.2	7.7
70 Degrees	17.3	19.1	17.1	22.4	20.5	6.6
71 to 73 Degrees	8.3	9.0	9.1	8.1	9.3	10.7
74 Degrees or More	10.1	15.0	15.5	12.1	15.9	8.1
Heat Turned Off	7.1	7.6	8.3	7.2	6.6	18.3
Unknown/No Answer	5.0	5.0	5.0	4.1	5.7	23.2
Air-Conditioning						
Central Air-Conditioning Use						
Use a Central System	47.1	69.7	71.7	66.3	68.4	3.2
All Summer	24.3	47.9	45.7	43.4	54.2	5.1
Quite a Bit	10.3	12.1	14.1	13.6	7.7	7.7
Only a Few Times	12.2	9.4	11.4	9.3	6.2	15.9
Not at All	0.3	Q	Q	Q	Q	41.1
No Central System	52.9	30.3	28.3	33.7	31.6	5.9
Use of Set-Back/Clock Thermostat for Cooling						
Programming Features Used	4.9	6.2	5.4	4.1	9.1	13.7
Only Manual Controls Used	13.3	24.5	23.0	24.4	27.3	10.9
Used Only for Heating	0.4	Q	Q	Q	Q	46.3
Window Air-Conditioning Use						
Use Window Units	26.1	24.3	21.8	30.1	25.0	6.2
All Summer	5.6	9.5	8.0	11.2	11.1	11.1
Quite a Bit	6.5	6.3	5.9	6.1	7.1	11.6
Only a Few Times	13.3	8.3	7.6	12.8	6.8	9.9
Not at All	0.7	Q	Q	Q	Q	35.6
No Window Units	73.9	75.7	78.2	69.9	75.0	2.1
Hot Water						
Number of Showers/Baths Taken Each Week						
Fewer than 10	27.9	25.2	24.0	28.3	25.6	5.0
10 to 20	46.0	45.0	47.2	44.3	41.8	3.5
More than 20	26.0	29.5	28.5	27.4	32.5	4.8
Not Applicable	0.2	Q	Q	Q	Q	71.9

See footnotes at end of table.

**Table HC6-11b. Usage Indicators by South Census Region,
Percent U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.2	1.5	1.4	
Hot Water (continued)						
Dishwasher Use Each Week						
Use a Dishwasher	50.2	51.5	53.5	42.3	53.4	4.0
Less Than 4 Times	28.3	30.0	32.7	21.3	30.6	5.6
4 to 6 Times	12.7	11.7	11.8	12.7	11.0	8.0
At Least Once Each Day	9.2	9.7	9.0	8.2	11.8	8.8
No Dishwasher	49.8	48.5	46.5	57.7	46.6	4.0
Loads of Laundry Washed Each Week						
Use a Clothes Washer	77.4	82.0	83.4	86.3	76.9	2.1
1 Load or Less	5.2	4.9	6.2	3.3	3.7	15.6
2 to 9 Loads	29.4	33.0	36.6	31.4	27.5	4.9
10 to 15 Loads	10.0	10.0	8.8	10.7	11.6	8.5
More than 15 Loads	3.3	3.2	2.4	3.5	4.6	20.1
No Washing Machine	22.6	18.0	16.6	13.7	23.1	9.2
Clothes Dryer Usage						
Use a Clothes Dryer	71.2	74.2	72.9	81.0	72.5	2.5
Every Time Clothes are Washed	56.3	62.5	61.1	64.4	63.7	3.2
Some, but not All, Loads	12.8	10.0	9.5	15.8	7.4	10.3
Used Infrequently	2.1	1.7	2.3	Q	Q	23.6
No Dryer	28.8	25.8	27.1	19.0	27.5	7.2
Cooking						
Number of Hot Meals Cooked in the Home						
3 or More Times a Day	6.9	7.2	7.7	5.8	7.1	10.9
2 Times a Day	25.3	25.9	25.1	27.3	26.3	5.7
Once a Day	41.6	37.0	35.3	40.1	38.1	4.8
A Few Times Each Week	20.1	23.0	25.6	19.2	20.9	8.6
About Once a Week	3.0	3.4	2.6	3.9	4.5	13.0
Less Than Once a Week	3.0	3.3	3.3	3.6	3.1	17.3
Conventional Oven Use						
More Than Once a Day	8.1	10.3	9.0	16.1	9.1	12.5
Once a Day	20.2	23.4	22.5	28.8	21.8	6.5
Between Once a Day and Once a Week	34.4	32.9	33.2	27.6	35.5	4.7
Once a Week	14.9	15.6	16.7	13.5	15.1	7.2
Less Than Once a Week	21.2	16.5	17.2	12.4	17.6	7.9
Amount of Food Cooked in Microwave Oven						
Use a Microwave Oven	83.0	82.4	83.7	79.3	82.0	2.8
Most or All	7.2	7.2	7.1	5.3	8.5	16.7
About Half	18.2	17.8	17.6	19.5	17.0	5.9
Some or Very Little	21.9	19.9	21.7	19.6	17.0	8.1
Only for Defrosting, Reheating, or Snacks	35.6	37.5	37.2	34.9	39.5	5.7
No Microwave Oven	17.0	17.6	16.3	20.7	18.0	12.0

See footnotes at end of table.

**Table HC6-11b. Usage Indicators by South Census Region,
Percent U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.2	1.5	1.4	
Lights						
Outdoor Lights on All Night						
Used	25.9	30.8	28.1	35.7	32.5	5.1
Not Used	74.1	69.2	71.9	64.3	67.5	2.2
Gas Fireplace Usage During Winter Months						
Use a Gas Fireplace	2.7	3.4	3.0	4.3	3.7	25.7
Most Days	1.1	1.4	1.3	Q	Q	23.6
Almost Once a Week	0.7	1.0	Q	Q	Q	40.4
Less Than 4 Times a Month	0.8	1.0	Q	Q	Q	49.3
Personal Computer Usage	35.1	31.0	32.3	25.2	32.1	5.5
Hours PC Turned On Each Week						
Less Than 2 Hours	8.1	7.1	7.3	6.3	7.4	10.6
2 to 15 Hours	17.1	15.9	16.0	14.6	16.5	7.4
16 to 40 Hours	6.6	4.4	5.1	2.3	4.4	12.1
On All The Time	3.3	3.6	3.9	2.0	4.0	18.8
Use of PCs Turned on 16 Hours a Week or More						
Personal Use Only	4.7	4.2	4.4	2.2	5.0	15.7
Business Use Only	2.1	1.1	1.4	Q	Q	23.9
Both Personal and Business	3.1	2.7	3.2	Q	2.4	21.6
Business Use of PCs Turned on 16 Hours a Week or More						
Use to Telecommute	2.1	1.2	1.1	Q	Q	24.7
Other Business Use	3.1	2.6	3.5	Q	Q	20.6
Battery Operated Appliances/Tools						
Use Battery Operated Appliances/Tools	43.7	41.8	41.4	42.9	41.8	3.5
How Maintained When Not in Use						
Plugged in All The Time	12.3	12.5	12.8	12.9	11.9	8.4
Recharged As Needed	26.6	25.2	25.2	27.1	24.0	5.7
Both Ways are Used	4.8	4.1	3.4	2.9	5.9	17.6
Don't Use Any	56.3	58.2	58.6	57.1	58.2	2.6

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report. • All temperatures listed are in degrees Fahrenheit.

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

**Table HC6-12b. Usage Indicators by West Census Region,
Percent of U.S. Households, 1997**

Usage Indicators	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
Total	100.0	100.0	100.0	100.0	0.0
Weekday Home Activities					
Home Used for Business					
Yes	7.2	9.0	10.5	8.4	9.8
No	92.8	91.0	89.5	91.6	0.9
Energy-Intensive Activity					
Yes	2.4	3.0	2.9	3.0	18.9
No	97.6	97.0	97.1	97.0	0.8
Someone Home All Day					
Yes	50.6	51.1	50.6	51.3	3.2
No	49.4	48.9	49.4	48.7	3.3
Heating					
Thermostat Available During Heating Season					
Yes	84.7	81.1	90.6	77.3	1.9
No	14.5	16.8	9.3	19.8	7.7
Do Not Heat Home	0.8	2.1	Q	2.9	18.3
Set-Back or Clock Thermostat in Home					
Yes	44.2	52.2	52.1	52.3	5.5
No	55.8	47.8	47.9	47.7	5.5
Use of Set-Back/Clock Thermostat for Heating					
Programming Features Used	11.5	14.6	15.5	14.3	11.3
Only Manual Controls Used	32.7	37.6	36.6	37.9	8.6
Winter Temperature Settings					
Lower When No One Home					
Yes	44.8	56.2	49.4	58.8	3.2
No	55.2	43.8	50.6	41.2	3.5
Lower During Sleeping Hours					
Yes	46.8	60.5	52.9	63.5	2.8
No	53.2	39.5	47.1	36.5	3.5
Daytime Winter Temperature When Someone is at Home					
Heat is Turned On	92.5	88.9	95.1	86.5	1.1
63 Degrees or Less	3.8	5.6	4.2	6.2	15.9
64 to 66 Degrees	8.1	12.0	8.4	13.4	11.5
67 to 69 Degrees	23.0	21.2	21.5	21.0	5.7
70 Degrees	25.3	26.1	25.5	26.4	4.6
71 to 73 Degrees	14.5	10.4	16.5	8.0	7.8
74 Degrees or More	17.8	13.6	19.1	11.5	8.8
Heat Turned Off	2.1	5.8	1.8	7.3	17.6
Unknown/No Answer	5.4	5.3	Q	6.2	15.0

See footnotes at end of table.

**Table HC6-12b. Usage Indicators by West Census Region,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
Daytime Winter Temperature When No One is at Home					
Heat is Turned On	83.7	70.5	86.9	64.0	1.5
63 Degrees or Less	19.4	22.6	20.1	23.5	8.0
64 to 66 Degrees	16.3	17.2	21.7	15.3	7.3
67 to 69 Degrees	17.8	12.3	15.1	11.3	8.3
70 Degrees	14.6	10.4	14.7	8.7	5.7
71 to 73 Degrees	7.5	3.7	7.6	2.2	11.2
74 Degrees or More	8.1	4.4	7.7	3.0	15.5
Heat Turned Off	10.2	23.3	9.6	28.7	7.6
Unknown/No Answer	6.1	6.2	3.5	7.2	14.4
Winter Temperature During Sleeping Hours					
Heat is Turned On	87.8	75.2	91.3	68.9	1.3
63 Degrees or Less	16.2	22.0	19.1	23.1	6.9
64 to 66 Degrees	16.6	17.3	21.1	15.9	7.0
67 to 69 Degrees	19.3	13.1	15.9	12.0	9.5
70 Degrees	17.3	13.0	20.1	10.2	6.8
71 to 73 Degrees	8.3	4.1	6.4	3.3	13.2
74 Degrees or More	10.1	5.7	8.7	4.5	14.4
Heat Turned Off	7.1	20.2	6.3	25.6	8.7
Unknown/No Answer	5.0	4.6	Q	5.5	14.1
Air-Conditioning					
Central Air-Conditioning Use					
Use a Central System	47.1	27.6	34.3	25.0	7.8
All Summer	24.3	9.0	16.6	6.0	9.5
Quite a Bit	10.3	6.7	8.5	6.0	14.2
Only a Few Times	12.2	11.2	9.0	12.1	13.7
Not at All	0.3	0.7	Q	Q	35.7
No Central System	52.9	72.4	65.7	75.0	3.8
Use of Set-Back/Clock Thermostat for Cooling					
Programming Features Used	4.9	3.2	5.5	2.4	16.4
Only Manual Controls Used	13.3	6.0	8.1	5.1	16.4
Used Only for Heating	0.4	Q	Q	Q	45.5
Window Air-Conditioning Use					
Use Window Units	26.1	13.9	15.5	13.2	10.8
All Summer	5.6	2.1	2.3	2.1	17.5
Quite a Bit	6.5	3.0	3.7	2.7	17.7
Only a Few Times	13.3	8.1	8.5	8.0	11.8
Not at All	0.7	Q	Q	Q	34.9
No Window Units	73.9	86.1	84.5	86.8	2.2
Hot Water					
Number of Showers/Baths Taken Each Week					
Fewer than 10	27.9	27.9	27.2	28.2	5.2
10 to 20	46.0	47.9	49.6	47.3	3.3
More than 20	26.0	23.9	22.8	24.3	5.6
Not Applicable	0.2	Q	Q	Q	70.6

See footnotes at end of table.

**Table HC6-12b. Usage Indicators by West Census Region,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
Hot Water (continued)					
Dishwasher Use					
Each Week					
Use a Dishwasher	50.2	53.1	57.2	51.5	4.5
Less Than 4 Times	28.3	29.5	30.0	29.3	6.2
4 to 6 Times	12.7	14.4	16.4	13.6	8.5
At Least Once Each Day	9.2	9.2	10.8	8.6	10.5
No Dishwasher	49.8	46.9	42.8	48.5	5.1
Loads of Laundry					
Washed Each Week					
Use a Clothes Washer	77.4	69.5	76.5	66.8	3.4
1 Load or Less	5.2	5.3	3.8	5.8	12.6
2 to 9 Loads	29.4	26.1	25.6	26.3	4.4
10 to 15 Loads	10.0	7.6	10.3	6.5	11.0
More than 15 Loads	3.3	2.1	2.7	1.9	18.3
No Washing Machine	22.6	30.5	23.5	33.2	9.1
Clothes Dryer Usage					
Use a Clothes Dryer	71.2	65.1	70.1	63.2	3.9
Every Time Clothes are Washed	56.3	52.0	52.7	51.8	4.6
Some, but not All, Loads	12.8	10.9	13.4	10.0	9.1
Used Infrequently	2.1	2.2	4.1	1.4	16.8
No Dryer	28.8	34.9	29.9	36.8	8.1
Cooking					
Number of Hot Meals					
Cooked in the Home					
3 or More Times a Day	6.9	8.5	9.6	8.0	11.4
2 Times a Day	25.3	27.8	28.1	27.7	5.8
Once a Day	41.6	41.8	43.0	41.3	4.5
A Few Times Each Week	20.1	17.2	15.1	18.0	6.1
About Once a Week	3.0	1.8	Q	1.7	18.5
Less Than Once a Week	3.0	2.8	2.3	3.0	21.6
Conventional Oven Use					
More Than Once a Day	8.1	7.0	5.5	7.6	12.9
Once a Day	20.2	16.0	16.0	15.9	5.8
Between Once a Day and Once a Week	34.4	34.5	37.3	33.4	4.8
Once a Week	14.9	13.8	14.8	13.4	6.5
Less Than Once a Week	21.2	26.9	25.0	27.7	5.4
Amount of Food Cooked in Microwave Oven					
Use a Microwave Oven	83.0	83.3	84.2	83.0	1.5
Most or All	7.2	7.8	5.3	8.8	11.6
About Half	18.2	21.3	20.8	21.5	6.5
Some or Very Little	21.9	23.4	26.3	22.2	6.6
Only for Defrosting, Reheating, or Snacks	35.6	30.8	31.7	30.5	5.0
No Microwave Oven	17.0	16.7	15.8	17.0	8.1

See footnotes at end of table.

**Table HC6-12b. Usage Indicators by West Census Region,
Percent of U.S. Households, 1997 (Continued)**

Usage Indicators	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
Lights					
Outdoor Lights on All Night					
Used	25.9	25.0	31.4	22.5	7.3
Not Used	74.1	75.0	68.6	77.5	2.6
Gas Fireplace Usage During Winter Months					
Use a Gas Fireplace	2.7	1.9	3.2	1.4	28.1
Most Days	1.1	1.0	Q	Q	34.9
Almost Once a Week	0.7	Q	Q	Q	40.0
Less Than 4 Times a Month	0.8	Q	Q	Q	60.4
Personal Computer Usage	35.1	41.3	39.8	42.0	5.4
Hours PC Turned On Each Week					
Less Than 2 Hours	8.1	8.2	7.9	8.3	7.1
2 to 15 Hours	17.1	21.0	22.8	20.3	7.0
16 to 40 Hours	6.6	8.0	6.7	8.5	12.0
On All The Time	3.3	4.1	2.3	4.8	15.5
Use of PCs Turned on 16 Hours a Week or More					
Personal Use Only	4.7	5.3	4.5	5.6	13.6
Business Use Only	2.1	3.1	2.5	3.3	21.7
Both Personal and Business	3.1	3.7	Q	4.4	16.7
Business Use of PCs Turned on 16 Hours a Week or More					
Use to Telecommute	2.1	3.6	Q	4.2	14.5
Other Business Use	3.1	3.2	2.4	3.5	19.2
Battery Operated Appliances/Tools					
Use Battery Operated Appliances/Tools	43.7	44.4	46.6	43.6	4.2
How Maintained When Not in Use					
Plugged in All The Time	12.3	10.5	14.6	8.9	7.2
Recharged As Needed	26.6	26.6	27.4	26.3	5.7
Both Ways are Used	4.8	7.2	4.6	8.3	10.3
Don't Use Any	56.3	55.6	53.4	56.4	3.4

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.

• Percentages are calculated on unrounded numbers. • See "Glossary" for definition of terms used in this report. • All temperatures listed are in degrees Fahrenheit.

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