

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.