Residential Energy Consumption Surveys

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

Table HC3-1a. Space Heating by Climate Zone, Million U.S. Households, 1997

				Climate Zone ¹			
			Fewer than 2,	000 CDD and		2,000 CDD or More	
Space Heating Characteristics	Total	More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD	and Fewer than 4,000 HDD	RSE
RSE Column Factor:		1.6	1.1	1.1	1.1	1.0	Factors
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	0.7	Q.0	Q.,	Q.5	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.2	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	0.2 Q	Q.	0.4	2.4	0.9	19.4
Room Heater/Other	3.8	Q	0.4	0.4	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	10.7	0.2	1.0	1.7	2.1	5.2	21.5
For Two or More Units	0.5	Q.2	Q.	Q Q	Q	0.3	48.4
Heat Pump	9.7	Q	0.5	2.7	2.5	3.9	19.1
Other	9.7 1.8	Q	0.5	0.3	2.5 0.5	3.9 0.6	23.4
Fuel Oil	9.5	1.9	3.0	4.2	0.5	Q.0	16.9
Steam or Hot-Water System	9.5 5.2	0.6	3.0 1.6	3.0	0.2 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	3. 4 1.8	0.5 Q	0.3	1.5	Q	Q	17.1
Central Warm-Air Furnace	3.8	1.2	1.2	1.2	Õ	Õ	20.7
Other	0.4	Q Q	0.2	Q 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.5	23.0
Other	0.7	0.2	0.5	Q.3	Q.4	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.4	Q.	Q.0	0.4	0.4	41.7
Other	0.5	0.1	Q	Q	0.4	Q.4	31.0
Kerosene	1.0	0.2	0.2	0.1	0.2	Q	28.6
Other	0.4	Q.2	0.2	0.1	0.3 Q	Q	50.6
None	0.8	Q	Q Q	Q	Q	0.6	29.0
Amount of Heat Provided							
by Main Heating Equipment	02.2	0.0	26.5	20.7	177	20.0	0.4
All or Almost All	93.3	8.3	26.5	20.7	17.7	20.0	8.4
About Three-Fourths Closer to One-Half	4.2 3.2	0.5	1.1 0.5	1.0 0.7	0.9 0.8	0.8 0.8	17.7 17.5
CIOSELTO CIDE-HAIT	47	0.4		11 /	O X	n ×	1 1/5

Table HC3-1a. Space Heating by Climate Zone, Million U.S. Households, 1997 (Continued)

				Climate Zone ¹			
			Fewer than 2,	000 CDD and		2,000 CDD or More	
Space Heating Characteristics	Total	More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD	and Fewer than 4,000 HDD	RSE
RSE Column Factor:	0.5	1.6	1.1	1.1	1.1	1.0	Row Factors
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
	5.1	J.,		U.L	1.0	1.0	15

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.

[•] 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

		Tuscrioius,						
				Year of Co	onstruction			
Space Heating Characteristics	Total	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	RSE Row Factors
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	10.7	1.5	3.6	3.0	1.1	0.5	0.5	15.1
For Two or More Units	0.5	0	0.2	0.2	Q	Q.3	Q.3	41.3
Heat Pump	9.7	1.9	3.7	2.4	0.9	0.6	0.3	17.1
	1.8	Q.	0.2	0.3	0.3	0.4	0.5	22.0
OtherFuel Oil	9.5	0.3	0.2	1.0	0.3 1.5	1.4	4.7	14.6
	5.2	0.3 0.1	0.3	0.5	0.8	0.8	2.8	20.0
Steam or Hot-Water System For One Housing Unit	3.4	0.1	0.2	0.3	0.6	0.6	2.6 1.6	20.0
For Two or More Units	1.8	Q Q	Q	Q	0.2	0.3	1.2	26.9
Central Warm-Air Furnace	3.8		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	00.0		40.0	400	40.0	4	a= .	
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

Table HC3-2a. Space Heating by Year of Construction, Million U.S. Households, 1997 (Continued)

	Year of Construction								
Space Heating Characteristics RSE Column Factor:	Total	1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before		
	0.5	1.5	1.2	1.0	1.1	1.1	0.9	RSE Row Factors	
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.U	Q	0.2	0.5	0.5	24.2	
Central Warm-Air Furnace	0.4	Õ	ã	Õ	Q	Q.S	Q.S	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	0.9	2.5 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 Other	2.6 0.3	Q Q	0.4 Q	0.5 Q	0.3 Q	0.3 Q	1.1 Q	20.8 47.0	
Estimated Heated Floorspace Category (square feet) ²	0.5		Q.						
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.

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

			1997 House	hold Income			Eli- gible	
Space Heating Characteristics	Total	Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More	Below Poverty Line	for Fed- eral Assist- ance ¹	RSE
RSE Column Factor:	0.6	1.4	1.0	0.9	1.0	1.3	1.0	Row
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 Floor, Wall, or	2.3	0.6	0.7	0.7	0.3	0.6	1.1	20.0
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 For Two or More Units	10.2 0.5	1.4 Q	3.3 0.2	3.0	2.5 Q	1.7 Q	3.5 0.2	12.0
Heat Pump	0.5 9.7	0.9	2.3	Q 2.9	3.7	0.8	2.4	37.7 14.5
Other	9.7 1.8	0.9	2.3 0.7	2.9 0.4	3.7 0.2	0.8 0.5	2. 4 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	Q	0.2	48.7
None	8.0	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

Table HC3-3a. Space Heating by Household Income, Million U.S. Households, 1997 (Continued)

			1997 House	hold Income			Eli- gible	
Space Heating Characteristics	Total	Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More	Below Poverty Line	for Fed- eral Assist- ance ¹	RSE
RSE Column Factor:	0.6	1.4	1.0	0.9	1.0	1.3	1.0	Row
A man of Marin								
Age of Main								
Heating Equipment	8.7	0.9	2.2	2.0	2.5	1.1	2.5	9.2
Less than 2 Years				3.0		1.1	2.5	
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)								
	67.2	10.7	21.4	20.3	110	44.4	25.7	3.2
No		10.7			14.8	11.4	25.7	
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	8.0	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.U	0.6	1.2	1.5	0.2	0.7	16.7
Other Equipment	0.3	Õ	Q.0	0	Q.	Q.2	Q.7	39.2
LPG	1.3	Q	0.3	0.4	0.5	Q	0.3	25.5
Kerosene	2.6	0.2	0.9	0.4	0.6	0.4	1.0	15.7
Other	0.3	Q Q	Q Q	Q.8	0.6	Q 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	0.0	1.2	2.5	4.0	0.3	1.1	12.9
2,400 to 2,999	7.9 5.3	0.2 Q	0.3	1.4	3.4	0.3	0.5	17.6
								1
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

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

		1				
			Type of Ho	ousing Unit		
			Multi	family		
Space Heating Characteristics	Total	Single-Family	Two to Four Units	Five or More Units	Mobile Home	RSE
RSE Column Factor:		0.6	1.7	1.3	1.6	Row Factors
Total	101.5	73.7	5.6	15.8	6.3	4.0
Main Heating Fire and						
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	8.0	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.3	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
		V. 1	•	5.0	•	30.0

Table HC3-4a. Space Heating by Type of Housing Unit, Million U.S. Households, 1997 (Continued)

			(- (<u>'</u>		
			Type of Ho	ousing Unit		
			Multi	family		
Space Heating Characteristics	Total	Single-Family	Two to Four Units	Five or More Units	Mobile Home	RSE
RSE Column Factor:	0.5	0.6	1.7	1.3	1.6	Row Factors
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	6.7 12.1	9.6	0.3	1.1	1.0	10.0
5 to 9 Years	19.9	15.5	0.4	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

			Type of Owner-Occ	cupied Housing Unit		
Space Heating Characteristics RSE Column Factor:	Total Owner- Occupied Units		Multi			
		Single-Family	Two to Four Units	Five or More Units	Mobile Home	RSE
	0.4	0.4	2.6	2.2	1.1	Row Factors
Total	68.5	61.1	0.9	1.2	5.3	6.2
Main Heating Fuel and						
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	0.3 Q	1.7	11.2
For One Housing Unit	29.3	27.2	0.3	Õ	1.7	11.5
For Two or More Units	0.5	0.4	Q.S	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	0.0	Õ	Q	23.5
For Two or More Units	0.6	0.2	Q	Q	Q	51.2
Floor, Wall, or	0.0	0.2	•	•	•	02
Pipeless Furnace	1.8	1.7	O	O	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.S	1.4	21.3
For One Housing Unit	6.0	4.4	Q	Q	1.4	21.3
For Two or More Units	Q.U	0	Q	Õ	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	Õ	0.2	Q.	17.7
Steam or Hot-Water System	3.2	3.0	ã	0.2	ã	18.3
For One Housing Unit	2.9	2.9	Q	Q	Q	25.0
For Two or More Units	0.3	Q	ã	0.2	ã	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	8.0	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	0.9 Q	0 0	4.8 0.2	23.7
Closer to One-Half	3.4 2.5	2.3	Q	Q	0.2	25.6
CIUSCI IU CIIETIIAII	۷.5	۷.۵	Q	Q	U.Z	47.1

Table HC3-5a. Space Heating by Type of Owner-Occupied Housing Unit, Million U.S. Households, 1997 (Continued)

			Type of Owner-Occ	upied Housing Unit		
	Total Owner-		Multi			
Space Heating Characteristics RSE Column Factor:	Occupied Units	Single-Family	Two to Four Units	Five or More Units	Mobile Home	RSE
	0.4	0.4	2.6	2.2	1.1	Row Factors
Age of Main						
Heating Equipment	0.7	F.0	0	0	0.0	45.4
Less than 2 Years	6.7	5.6	Q Q	Q	0.9	15.4
2 to 4 Years	9.5	8.4	-	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	õ	õ	ã	61.7
Fuel Oil	0.4	0.4	õ	ã	ã	53.0
Wood	11.4	11.0	ã	ã	0.4	14.5
Fireplace	8.4	8.1	ã	ã	0.3	16.5
Heating Stove	3.1	3.0	Q	Q	Q.S	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.2	59.4
Estimated Heated Floorspace						
Category (square feet) ¹	4 7	0.7	^	_	0.7	20.5
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

						I
			Type of Rente	d Housing Unit		
			Multi	family		
Space Heating Characteristics	Total Rented Units	Single-Family	Two to Four Units	Five or More Units	Mobile Home	RSE
RSE Column Factor:		0.7	1.3	0.9	2.1	Row Factors
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 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

Table HC3-6a. Space Heating by Type of Rented Housing Unit, Million U.S. Households, 1997 (Continued)

		<u> </u>		•		
			Type of Rente	d Housing Unit		
			Multit	family		
Space Heating Characteristics	Total Rented Units	Single-Family	Two to Four Units	Five or More Units	Mobile Home	RSE
RSE Column Factor:	0.6	0.7	1.3	0.9	2.1	Row Factors
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	1.1	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 Other	0.5 Q	0.4 Q	Q O	Q Q	Q Q	34.4 NF
Other	Q	Q	Q	Q	Q	INF
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

			Four Most Pop	ulated States		
Space Heating Characteristics	Total	New York	California	Texas	Florida	RSE
RSE Column Factor:	0.5	1.2	0.9	1.3	1.5	Row Factors
Fotal	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	0.7	12.2
For One Housing Unit	36.4 37.0	1.6	4.7 4.7	2.3 2.2	0.6	12.2
		0.7 Q				
For Two or More Units	1.3		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 Floor, Wall, or	2.3	0.6	Q	Q	Q	22.7
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	10.3
			0.8			_
Built-In Electric Units	7.5	Q		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	Õ	Q	Q	22.2
Other	0.4	0.1	ã	ã	ã	18.6
Wood	2.2	0.2	0.3	Q	Q	24.3
Heating Stove	1.5	Q Q	0.2	Q	Q	21.3
Other	0.7	0.1	0.2	Q Q	Q	26.0
			0.1	0.3	0.1	
LPG	4.6	Q				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
	0.8	>0	Q	Q	Q	22.0

Table HC3-7a. Space Heating by Four Most Populated States, Million U.S. Households, 1997 (Continued)

			Four Most Pop	ulated States		
Space Heating Characteristics	Total	New York	California	Texas	Florida	RSE
RSE Column Factor:	0.5	1.2	0.9	1.3	1.5	Row Factors
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	2.6 4.6	1.0	0.6	7.6
Don't Know	26.0 9.0	2.4 1.2				-
No Main Equipment	9.0 0.8	1.2 >0	0.5 Q	0.6 Q	0.6 Q	16.5 22.0
No Main Equipment	0.0	>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	0.4	Q.3	Q	13.0
Room Heater	1.4	Q	Q	0.3	Q	21.6
	0.4	Q	Õ	0.3 Q	Q	44.8
Central Warm-Air Furnace		Q	-	Q 0.1		30.6
Other Equipment	0.8		Q		Q	
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 Hasted Flagrances Catagony						
Estimated Heated Floorspace Category (square feet)						
Fewer than 600	7.9	0.9	1.4	0.5	0.3	14.4
600 to 999	7.9 21.5	1.6	2.7	1.4	0.8	9.8
1,000 to 1,599	30.4	1.6	3.0	2.0	2.5	7.0
·		0.7	3.0 1.5		2.5 0.9	11.9
1,600 to 1,999	15.3	***		1.1		
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 RSÉ 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.

O Value too small to display.

Table HC3-8a. Space Heating by Urban/Rural Location, Million U.S. Households, 1997

		Urban/Rural Location ¹					
Space Heating Characteristics	Total	City	Town	Suburbs	Rural	D05	
RSE Column Factor:	0.6	0.9	1.3	1.3	1.2	RSE Row Factors	
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			9.5 6.7		3.3 2.4	7.0	
	38.4	19.6		9.7		-	
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 UnitsFloor, Wall, or	2.3	1.7	0.4	Q	Q	19.5	
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	
	10.7	5.4	1.6	1.6	1.5	13.6	
For One Housing Unit							
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	ã	0.5	31.3	
LPG	4.6	0.4	0.9	0.2	3.1	19.1	
Central Warm-Air Furnace	3.2	0.4	0.6	0.1	2.3	24.8	
		Q.2 Q			0.6		
Room Heater	0.9		0.2	Q		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	
						1	
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	

Table HC3-8a. Space Heating by Urban/Rural Location, Million U.S. Households, 1997 (Continued)

			Urban/Rur	ral Location ¹		
Space Heating Characteristics	Total	City	Town	Suburbs	Rural	
RSE Column Factor:	0.6	0.9	1.3	1.3	1.2	RSE Row Factor
Age of Main						
leating 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.0	23.9
No Main Equipment	0.0	0.5	Q	0.2	Q	25.5
Secondary Heating Fuel and Equipment more than one may apply)	07.0			40.0		
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

			Northeast Census Region	ı	
			Census	Division	
Space Heating Characteristics	Total U.S.	Total	Middle Atlantic	New England	RSE
RSE Column Factor:	0.5	1.1	1.3	1.5	Row Factors
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	13.1
For Two or More Units	1.3	0.3	0.2	Q. T	28.8
Steam or Hot-Water System	7.3	3.6	2.8	0.8	11.2
For One Housing Unit	7.3 5.0	2.6	1.9	0.7	13.8
For Two or More Units	2.3	1.0	0.9	Q.7	17.5
Floor, Wall, or	2.3	1.0	0.9	Q	17.5
Pipeless Furnace	4.1	Q	Q	Q	19.4
Room Heater/Other	3.8	0.3	Õ	Q Q	29.7
Electricity	29.6	2.3	1.7	0.6	12.3
Built-In Electric Units	7.5	1.3	1.7	0.8	18.5
	7.5 10.7	0.4	0.2	0.3 Q	25.4
Central Warm-Air Furnace For One Housing Unit			0.2 Q	Q	_
	10.2	0.3	Q	Q	23.7
For Two or More Units	0.5 9.7	Q 0.4		Q	55.6 31.1
Heat Pump	9.7 1.8	0.4	0.3 Q	Q	-
Other		*.*			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 None	0.4 0.8	0.1 Q	Q Q	Q O	51.5 38.2
Amount of Heat Provided by Main Heating Equipment	0.0	· ·	· ·	· · ·	55.2
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	Q.2	38.2

Table HC3-9a. Space Heating by Northeast Census Region, Million U.S. Households, 1997 (Continued)

		` `			
			Northeast Census Region	1	
			Census	Division	
Space Heating Characteristics	Total U.S.	Total	Middle Atlantic New Englar		RSE
RSE Column Factor:	0.5	1.1	1.3	1.5	Row Factors
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	0	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	õ	õ	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

			Midwest Census Region		
			Census	Division	
Space Heating Characteristics	Total U.S.	Total	East North Central	West North Central	RSE
RSE Column Factor:	0.5	1.0	1.2	1.6	Row Factors
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
	7.3 5.0	2.5 1.5	1.2	0.3	19.1
For One Housing Unit					-
For Two or More Units	2.3	1.0	0.8	Q	20.6
Floor, Wall, or				_	1
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 O	õ	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	Ö	Õ	Ö	19.9
Central Warm-Air Furnace	3.8	0.8	0.5	0.3	19.7
Other	0.4	Q.O	Q.S	Q.S	37.7
Wood	2.2	0.4	ã	Q	31.6
Heating Stove	1.5	0.4	o O	Q	28.8
Other	0.7	0.2 Q	o O	Q	42.8
LPG	4.6	1.8	0.9	0.9	21.8
Central Warm-Air Furnace	3.2 0.9	1.5 Q	0.8 Q	0.7 Q	24.1
Room Heater		Q 0.2			33.0
Other	0.5		Q	0.1	25.5
Kerosene	1.0	Q Q	Q Q	Q	34.2
Other	0.4 0.8	Q Q	Q	Q Q	61.6 38.0
Amount of Heat Provided by Main Heating Equipment	0.0	Q	Q	Q	36.0
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

Table HC3-10a. Space Heating by Midwest Census Region, Million U.S. Households, 1997 (Continued)

		·			
			Midwest Census Region		
			Census	Division	
Space Heating Characteristics	Total U.S.	Total	East North Central	West North Central	RSE
RSE Column Factor:	0.5	1.0	1.2	1.6	Row Factors
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.3	25.4
Room Heater	1.4	0.3	0.7 Q	Q	21.9
Central Warm-Air Furnace	0.4	Q.S	Q	Q	43.6
Other Equipment	0.8	Q Q	Ö	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	0.0 Q	0.4	Q.2	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.3	Q.3	Q.2	48.7
LPG	1.3	0.3	Ö	0.2	24.8
Kerosene	2.6	0.4	0.3	Q.2	18.4
Other	0.3	Q.	Q	Q	47.9
Estimated Heated Floorspace Category					
(square feet) ¹	7.9	4 7	4.2	0.4	12.7
Fewer than 600	7.9 21.5	1.7 5.1	1.3 3.6	0.4	1
600 to 999 1,000 to 1,599			3.6 4.8	1.5	8.7
	30.4	6.9 4.2	4.8 2.9	2.1	6.5
1,600 to 1,999	15.3			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 No Estimate Provided	4.1 9.1	1.0 1.9	0.7 1.4	0.3 0.5	18.3 16.4
INO Lamidle Flovided	9.1	1.9	1.4	0.5	10.4

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

			Sou	th Census Region		
				Census Division		
Space Heating Characteristics	Total U.S.	Total	South Atlantic	East South Central	West South Central	RSE
RSE Column Factor:	0.5	0.9	1.2	1.4		Row Factors
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	7.3 5.0	0.5	0.4	Q	Q	24.3
For Two or More Units	2.3	Q.S	Q.4 Q	Q Q	Q	24.4
Floor, Wall, or	2.3	Q	Q	Q	Q	24.4
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	00.0	20.0	47.4	5.0	40.0	1 4 2
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

Table HC3-11a. Space Heating by South Census Region, Million U.S. Households, 1997 (Continued)

			Sou	th Census Region		
				Census Division		
Space Heating Characteristics	Total U.S.	Total	South Atlantic	East South Central	West South Central	RSE
RSE Column Factor:	0.5	0.9	1.2	1.4	1.3	Row
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.S	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	8.0	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	3.0 1.8	0.9	0.3	0.6	14.5
∠,+∪∪ (U ∠,JJJ						
2.000 or Moro	11					
3,000 or More No Estimate Provided	4.1 9.1	1.8 2.9	0.8 1.8	0.3 0.5	0.7 0.7	21.2 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

			West Census Region		
			Census I	Division	
Space Heating Characteristics	Total U.S.	Total	Mountain	Pacific	RSE
RSE Column Factor:	0.5	1.0	1.7		Row Factors
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. T	24.3
Steam or Hot-Water System	7.3	0.7	0.5	0.2	20.9
For One Housing Unit	7.3 5.0	0.7	0.2	0.2	22.7
For Two or More Units	2.3	0.4	Q.2	Q.2	33.3
Floor, Wall, or	2.3	0.3	Q	Q	33.3
	4.1	2.5	0.2	2.2	10.8
Pipeless Furnace	3.8	2.5 0.8	0.2	0.7	17.9
Room Heater/Other					
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		40.0			
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

Table HC3-12a. Space Heating by West Census Region, Million U.S. Households, 1997 (Continued)

		, ,			
Space Heating Characteristics RSE Column Factor:	Total U.S. 0.5	West Census Region			
		Total	Census Division		
			Mountain	Pacific	RSE Row Factors
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)	67.0	44.7	4.0	40.7	2.2
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.