Table 3.7a. Space Heating by Census Region and Climate Zone, Million U.S. Households, 1993

			Census	Region			Ó	Climate Zor	ne		
								r than DD and		More than 2,000 CDD	
Space Heating Characteristics	Total	Northeast	Midwest	South	West	More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Few- er than 4,000 HDD	and Few- er than 4,000 HDD	
RSE Column Factor:	0.5	0.9	1.1	0.8	0.8	1.6	1.3	1.2	1.2	1.1	RSE Row Factors
Total	96.6	19.5	23.3	33.5	20.4	8.7	26.5	22.5	17.8	21.2	7.7
Main Heating Fuel and Equipment											
Natural Gas	50.8	9.4	16.8	12.7	11.9	4.3	17.5	10.1	10.2	8.7	7.5
Central Warm-Air Furnace	34.9	4.7	13.4	8.7	8.2	3.2	12.7	6.5	6.3	6.3	9.1
For One Housing Unit	34.1	4.4	13.1	8.6	8.0	3.1	12.4	6.2	6.3	6.2	9.4
For Two or More Units	0.9	0.4	0.3	Q	Q	Q	0.3	0.3	Q	Q	30.0
Steam or Hot-Water System For One Housing Unit	8.7 5.1	4.3 2.7	2.9 1.6	0.7 0.4	0.8 0.5	1.0 0.6	4.2 2.7	3.0 1.5	0.4 0.2	Q Q	15.0 18.6
For Two or More Units	3.6	1.6	1.3	0.4	0.3	0.6	1.6	1.5	Q.2	Q	20.6
Floor, Wall, or	0.0	1.0	1.0	0.1	0.0	0.1	1.0	1.0	Q	•	20.0
Pipeless Furnace	4.3	0.2	Q	1.4	2.6	Q	0.3	0.3	2.7	1.0	19.2
Room Heater/Other	2.8	0.2	0.3	1.9	0.4	Q	0.3	0.3	0.8	1.3	24.6
Electricity	25.3	1.9	3.0	14.7	5.7	0.9	4.0	6.0	4.8	9.5	10.7
Built-In Electric Units	7.0	1.2	1.4	1.9	2.6	0.6	2.1	2.1	1.5	0.7	16.7
Central Warm-Air Furnace	9.5	0.1	1.1	6.3	2.0	0.2	1.1	1.2	1.7	5.2	19.4
For One Housing Unit Heat Pump	9.3 7.5	0.1 0.5	1.1 0.4	6.2 5.9	1.9 0.7	0.2 Q	1.1 0.7	1.2 2.4	1.7 1.2	5.1 3.2	19.6 18.5
Other	1.3	0.5 Q	Q.4	0.6	0.7	Q	0.7 Q	0.2	0.4	0.5	23.7
Fuel Oil	10.2	7.0	1.3	1.4	0.4	1.9	3.3	4.5	0.4	0.2	17.4
Steam or Hot-Water System	5.3	4.7	0.2	0.4	Q	0.6	1.9	2.8	Q	Q	16.4
For One Housing Unit	3.5	2.9	0.2	0.3	Q	0.6	1.6	1.4	Q	Q	19.6
For Two or More Units	1.8	1.8	Q	Q	Q	Q	0.3	1.4	Q	Q	15.6
Central Warm-Air Furnace	4.5	2.2	1.0	0.9	Q	1.2	1.3	1.5	0.3	Q	17.3
Other Wood	0.4 3.1	0.1 0.5	Q 0.4	Q 1.2	Q 1.1	Q 0.7	Q 0.3	Q 0.9	Q 0.8	Q 0.5	40.4 17.0
Heating Stove	2.4	0.3	0.4	1.0	0.8	0.7	0.3	0.3	0.6	0.3	19.3
Other	0.7	Q	0.2	0.2	0.3	0.2	Q.	0.2	0.2	0.1	29.4
LPG	4.8	0.2	1.8	2.4	0.4	0.7	1.0	0.7	0.9	1.4	26.2
Central Warm-Air Furnace	3.1	0.1	1.5	1.2	0.3	0.6	0.8	0.6	0.4	0.7	28.0
Room Heater	1.1	Q	Q	1.0	Q	Q	Q	Q	Q	0.6	30.4
Other	0.6	Q	Q Q	0.3	Q Q	Q 0.1	Q Q	Q Q	0.2	Q 0.2	35.1
Kerosene Other	1.0 0.4	0.3 Q	Q	0.6 Q	Q 0.1	0.1	Q	Q	0.3 Q	0.2 Q	26.5 30.6
None	0.9	Q	Q	Q	0.7	Q	Q	Q	0.3	0.6	23.5
Amount of Heat Provided by Main Heating Equipment											
All or Almost All	87.3	17.9	22.3	30.2	16.9	7.7	24.9	20.6	15.2	18.8	5.0
About Three-Fourths Closer to One-Half	5.4 3.1	1.0 0.6	0.6 0.4	2.0 1.1	1.8 0.9	0.7 0.3	1.0 0.6	1.2 0.6	1.4 0.9	1.2 0.7	14.5 16.8
No Main Equipment	0.9	0.6 Q	Q.4 Q	Q Q	0.9	0.3 Q	Q.6	Q.6	0.3	0.7	23.5
Age of Main											
Heating Equipment	0.0	4 7	0.4	0.0	4.4	4.0	0.0	4.0	4.0	0.4	40.4
Less than 2 Years 2 to 4 Years	9.0 10.6	1.7 1.8	2.1 2.5	3.8 4.6	1.4 1.8	1.0 1.2	2.2 2.8	1.8 1.9	1.6 2.1	2.4 2.6	12.1 11.3
5 to 9 Years	10.6	1.8 2.9	2.5 4.2	4.6 7.5	3.2	1.2	2.8 4.4	1.9 4.5	2.1	2.6 4.7	9.6
10 to 19 Years	21.6	4.0	4.2 5.4	7.5 7.6	3.2 4.5	2.3	5.8	4.5 5.1	3.2	5.2	7.3
20 Years or More	21.5	5.2	5.6	5.0	5.7	1.9	7.0	4.9	5.1	2.7	8.0
Don't Know	15.3	3.9	3.5	4.8	3.1	0.7	4.3	4.3	2.8	3.1	9.8
No Main Equipment	0.9	Q	Q	Q	0.7	Q	Q	Q	0.3	0.6	23.5

Table 3.7b. Space Heating by Census Region and Climate Zone, Percent of Households, 1993

			Census	Region			Ó	Climate Zon	ne		
								r than DD and		More than 2,000	
Space Heating Characteristics	Total	Northeast	Midwest	South	West	More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Few- er than 4,000 HDD	CDD and Few- er than 4,000 HDD	
RSE Column Factor:	0.5	1.0	1.2	0.9	0.8	1.4	1.2	1.1	1.0	1.1	RSE Row Factors
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Main Heating Fuel and Equipment											
Natural Gas	52.6	48.3	71.9	37.9	58.6	49.3	66.2	44.9	57.2	41.1	5.8
Central Warm-Air Furnace	36.2	24.4	57.3	25.9	40.0	36.6	47.9	29.0	35.4	29.5	7.2
For One Housing Unit	35.3	22.4	56.0	25.8	39.5	35.3	46.7	27.6	35.3	29.0	7.5
For Two or More Units	0.9	2.0	1.3	Q	Q	Q	1.2	1.3	Q	Q	29.8
Steam or Hot-Water System For One Housing Unit	9.0 5.3	22.1 13.7	12.6 6.8	2.1 1.1	3.8 2.4	11.2 6.8	16.0 10.1	13.5 6.8	2.0 1.2	Q Q	15.0 17.9
For Two or More Units	3.8	8.4	5.8	1.1	1.4	Q.8	5.9	6.6	Q.	Q	19.3
Floor, Wall, or	0.0	0.1	0.0			•	0.0	0.0	Q	•	10.0
Pipeless Furnace	4.4	0.9	Q	4.2	12.7	Q	1.1	1.3	15.1	4.6	19.0
Room Heater/Other	2.9	1.0	1.4	5.7	2.1	Q	1.3	1.1	4.7	6.2	23.0
Electricity	26.2	9.9	12.8	43.9	28.1	10.9	15.2	26.6	27.2	45.0	9.4
Built-In Electric Units	7.2	6.0	6.1	5.5	12.6	7.2	8.1	9.5	8.2	3.1	16.4
Central Warm-Air Furnace	9.8	0.6	4.6	18.9	9.7	2.3	4.3	5.4	9.8	24.5	17.9
For One Housing Unit Heat Pump	9.6 7.8	0.6 2.7	4.6 1.9	18.5 17.6	9.4 3.4	2.3 Q	4.3 2.7	5.2 10.7	9.8 6.7	23.8 15.2	18.1 17.8
Other	1.4	Q.7	Q.	1.9	2.4	Q	Q.7	1.0	2.5	2.2	23.4
Fuel Oil	10.6	36.1	5.8	4.3	2.0	21.6	12.5	19.9	2.0	1.0	16.9
Steam or Hot-Water System	5.5	24.4	1.0	1.1	Q	7.2	7.1	12.5	Q	Q	16.5
For One Housing Unit	3.6	15.1	1.0	1.0	Q	6.6	5.9	6.1	Q	Q	19.3
For Two or More Units	1.9	9.3	Q	Q	Q	Q	1.2	6.4	Q	Q	16.8
Central Warm-Air Furnace	4.7	11.1	4.5	2.8	Q	13.3	5.1	6.8	1.7	Q	16.3
Other Wood	0.4 3.2	0.7 2.3	Q 1.7	Q 3.5	Q 5.4	Q 7.8	Q 1.2	Q 3.8	Q 4.4	Q 2.3	36.8 17.7
Heating Stove	2.5	1.9	1.0	2.9	4.0	6.0	0.9	3.1	3.5	1.6	20.2
Other	0.8	Q	0.7	0.6	1.4	1.9	Q	0.7	1.0	0.7	30.1
LPG	5.0	1.2	7.5	7.3	1.9	7.9	3.9	3.1	5.3	6.8	24.5
Central Warm-Air Furnace	3.2	0.8	6.5	3.5	1.4	6.5	3.2	2.6	2.4	3.2	26.4
Room Heater	1.2	Q	Q	2.9	Q	Q	Q	Q	2.0	2.9	31.9
Other Kerosene	0.6 1.0	Q 1.7	Q Q	0.9 1.7	Q Q	Q 1.6	Q Q	Q Q	1.0 1.9	Q 1.1	33.5 27.3
Other	0.4	Q 1.7	Q Q	Q 1.7	0.3	0.8	Ö	Q Q	Q.	Q 1.1	33.7
None	0.9	Q	Q	Q	3.3	Q	Q	Q	1.8	2.7	24.1
Amount of Heat Provided by Main Heating Equipment											
All or Almost AllAbout Three-Fourths	90.3	91.7	95.7	90.1	83.2	89.1	94.1	91.8	85.3	88.6	1.4 14.3
Closer to One-Half	5.6 3.2	5.2 3.2	2.7 1.6	5.9 3.4	8.8 4.7	7.6 3.3	3.6 2.3	5.5 2.7	7.7 5.1	5.5 3.2	17.0
No Main Equipment	0.9	Q	Q	Q.	3.3	Q.S	Q	Q	1.8	2.7	24.1
Age of Main											
Heating Equipment Less than 2 Years	0.3	0.5	0.0	44.4	6.0	12.0	0.0	7.0	0.0	11.0	10.4
2 to 4 Years	9.3 11.0	8.5 9.2	9.2 10.7	11.4 13.7	6.8 8.6	12.0 14.0	8.3 10.4	7.8 8.7	9.2 11.7	11.2 12.4	10.4 9.5
5 to 9 Years	18.3	9.2 14.7	10.7	22.5	15.5	17.2	16.6	20.0	15.0	21.9	7.3
10 to 19 Years	22.4	20.8	23.0	22.8	22.3	27.0	21.8	22.8	17.8	24.5	5.1
20 Years or More	22.2	26.5	24.2	14.8	28.0	21.3	26.5	21.7	28.6	12.6	6.4
Don't Know	15.8	20.2	15.0	14.2	15.4	8.6	16.4	19.0	15.9	14.7	8.6
No Main Equipment	0.9	Q	Q	Q	3.3	Q	Q	Q	1.8	2.7	24.1

Table 3.7a. Space Heating by Census Region and Climate Zone, Million U.S. Households, 1993 (Continued)

			Census	Region			(Climate Zon	ie		
								r than DD and		More than 2,000	
Space Heating Characteristics	Total	Northeast	Midwest	South	West	More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Few- er than 4,000 HDD	CDD and Few- er than 4,000 HDD	
RSE Column Factor:	0.5	0.9	1.1	0.8	0.8	1.6	1.3	1.2	1.2	1.1	RSE Row Factors
econdary Heating Fuel and quipment more than one may apply)	60.0	42.0	45.0	10.5	44.0	5.0	40.0	42.0	40.2	42.0	F 7
quipment nore than one may apply) No	60.8	13.8	15.9 7.4	19.5 14.0	11.6 8.7	5.2 3.5	18.6	13.8	10.3	12.9	5.7
quipment more than one may apply) No Yes	35.9	5.7	7.4	14.0	8.7	3.5	7.9	8.7	7.5	8.3	7.7
equipment more than one may apply) No Yes Natural Gas	35.9 4.1	5.7 0.3	7.4 0.7	14.0 1.8	8.7 1.2	3.5 0.3	7.9 0.6	8.7 0.5	7.5 1.3	8.3 1.2	7.7 19.8
quipment more than one may apply) No	35.9	5.7	7.4 0.7 0.4	14.0	8.7 1.2 0.7	3.5	7.9	8.7 0.5 0.1	7.5	8.3	7.7
equipment more than one may apply) No Yes Natural Gas	35.9 4.1 1.8	5.7 0.3 Q	7.4 0.7	14.0 1.8 0.6	8.7 1.2	3.5 0.3 0.2	7.9 0.6 0.3	8.7 0.5	7.5 1.3 0.5	8.3 1.2 0.6	7.7 19.8 22.1
quipment more than one may apply) No Yes Natural Gas Fireplace Room Heater	35.9 4.1 1.8 1.0	5.7 0.3 Q Q Q Q	7.4 0.7 0.4 Q 0.1 Q	14.0 1.8 0.6 0.6	8.7 1.2 0.7 Q	3.5 0.3 0.2 Q	7.9 0.6 0.3 Q Q 0.1	8.7 0.5 0.1 Q 0.2 Q	7.5 1.3 0.5 0.2 0.2 0.4	8.3 1.2 0.6 0.5 Q 0.1	7.7 19.8 22.1 25.2
rquipment more than one may apply) No Yes Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity	35.9 4.1 1.8 1.0 0.6	5.7 0.3 Q Q Q Q Q 2.3	7.4 0.7 0.4 Q 0.1	14.0 1.8 0.6 0.6 0.2	8.7 1.2 0.7 Q 0.2 0.3 3.0	3.5 0.3 0.2 Q Q	7.9 0.6 0.3 Q Q 0.1 3.3	8.7 0.5 0.1 Q 0.2	7.5 1.3 0.5 0.2 0.2 0.4 3.0	8.3 1.2 0.6 0.5 Q 0.1 3.5	7.7 19.8 22.1 25.2 31.6
rquipment more than one may apply) No No No Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity Portable Heater	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8	5.7 0.3 Q Q Q Q Q 2.3 1.5	7.4 0.7 0.4 Q 0.1 Q 3.3 2.4	14.0 1.8 0.6 0.6 0.2 0.4 6.0 3.9	8.7 1.2 0.7 Q 0.2 0.3 3.0 2.0	3.5 0.3 0.2 Q Q Q 1.4 0.8	7.9 0.6 0.3 Q Q 0.1 3.3 2.2	8.7 0.5 0.1 Q 0.2 Q 3.4 2.3	7.5 1.3 0.5 0.2 0.2 0.4 3.0 2.2	8.3 1.2 0.6 0.5 Q 0.1 3.5 2.3	7.7 19.8 22.1 25.2 31.6 33.3 10.4 11.9
rquipment more than one may apply) No Yes Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity Portable Heater Built-in Electric Units	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0	5.7 0.3 Q Q Q Q Q 2.3 1.5 0.8	7.4 0.7 0.4 Q 0.1 Q 3.3 2.4 0.7	14.0 1.8 0.6 0.6 0.2 0.4 6.0 3.9 1.7	8.7 1.2 0.7 Q 0.2 0.3 3.0 2.0 0.8	3.5 0.3 0.2 Q Q Q 1.4 0.8 0.5	7.9 0.6 0.3 Q Q 0.1 3.3 2.2 1.0	8.7 0.5 0.1 Q 0.2 Q 3.4 2.3 0.9	7.5 1.3 0.5 0.2 0.2 0.4 3.0 2.2 0.7	8.3 1.2 0.6 0.5 Q 0.1 3.5 2.3 1.0	7.7 19.8 22.1 25.2 31.6 33.3 10.4 11.9 18.0
rquipment more than one may apply) No No Yes Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity Portable Heater Built-in Electric Units Other Equipment	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0 0.8	5.7 0.3 Q Q Q Q 2.3 1.5 0.8 Q	7.4 0.7 0.4 Q 0.1 Q 3.3 2.4 0.7 Q	14.0 1.8 0.6 0.6 0.2 0.4 6.0 3.9 1.7 0.3	8.7 1.2 0.7 Q 0.2 0.3 3.0 2.0 0.8 0.3	3.5 0.3 0.2 Q Q Q 1.4 0.8 0.5 Q	7.9 0.6 0.3 Q Q 0.1 3.3 2.2 1.0 Q	8.7 0.5 0.1 Q 0.2 Q 3.4 2.3 0.9 Q	7.5 1.3 0.5 0.2 0.2 0.4 3.0 2.2 0.7	8.3 1.2 0.6 0.5 Q 0.1 3.5 2.3 1.0	7.7 19.8 22.1 25.2 31.6 33.3 10.4 11.9 18.0 19.3
rquipment more than one may apply) No Yes Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity Portable Heater Built-in Electric Units Other Equipment Fuel Oil	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0 0.8 0.4	5.7 0.3 Q Q Q Q 2.3 1.5 0.8 Q	7.4 0.7 0.4 Q 0.1 Q 3.3 2.4 0.7 Q	14.0 1.8 0.6 0.6 0.2 0.4 6.0 3.9 1.7 0.3 Q	8.7 1.2 0.7 Q 0.2 0.3 3.0 2.0 0.8 0.3 Q	3.5 0.3 0.2 Q Q 1.4 0.8 0.5 Q	7.9 0.6 0.3 Q Q 0.1 3.3 2.2 1.0 Q	8.7 0.5 0.1 Q 0.2 Q 3.4 2.3 0.9 Q	7.5 1.3 0.5 0.2 0.2 0.4 3.0 2.2 0.7 0.2 Q	8.3 1.2 0.6 0.5 Q 0.1 3.5 2.3 1.0 0.2 Q	7.7 19.8 22.1 25.2 31.6 33.3 10.4 11.9 18.0 19.3 21.6
rquipment more than one may apply) No No No Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity Portable Heater Built-in Electric Units Other Equipment Fuel Oil Wood	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0 0.8 0.4 19.0	5.7 0.3 Q Q Q Q 2.3 1.5 0.8 Q	7.4 0.7 0.4 Q 0.1 Q 3.3 2.4 0.7 Q Q	14.0 1.8 0.6 0.6 0.2 0.4 6.0 3.9 1.7 0.3 Q 6.7	8.7 1.2 0.7 Q 0.2 0.3 3.0 2.0 0.8 0.3 Q 5.4	3.5 0.3 0.2 Q Q Q 1.4 0.8 0.5 Q 0.1	7.9 0.6 0.3 Q 0.1 3.3 2.2 1.0 Q	8.7 0.5 0.1 Q 0.2 Q 3.4 2.3 0.9 Q Q	7.5 1.3 0.5 0.2 0.2 0.4 3.0 2.2 0.7 0.2 Q	8.3 1.2 0.6 0.5 Q 0.1 3.5 2.3 1.0 0.2 Q 4.3	7.7 19.8 22.1 25.2 31.6 33.3 10.4 11.9 18.0 19.3 21.6 9.9
rquipment more than one may apply) No Yes Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity Portable Heater Built-in Electric Units Other Equipment Fuel Oil Wood Fireplace	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0 0.8 0.4 19.0 15.9	5.7 0.3 Q Q Q Q 2.3 1.5 0.8 Q 0.2 3.1 2.2	7.4 0.7 0.4 Q 0.1 Q 3.3 2.4 0.7 Q Q 3.8 3.3	14.0 1.8 0.6 0.6 0.2 0.4 6.0 3.9 1.7 0.3 Q 6.7 5.9	8.7 1.2 0.7 Q 0.2 0.3 3.0 2.0 0.8 0.3 Q 5.4 4.5	3.5 0.3 0.2 Q Q Q 1.4 0.8 0.5 Q 0.1 1.7	7.9 0.6 0.3 Q 0.1 3.3 2.2 1.0 Q 4.4 3.6	8.7 0.5 0.1 Q 0.2 Q 3.4 2.3 0.9 Q Q 4.9 4.0	7.5 1.3 0.5 0.2 0.2 0.4 3.0 2.2 0.7 0.2 Q	8.3 1.2 0.6 0.5 Q 0.1 3.5 2.3 1.0 0.2 Q 4.3 4.1	7.7 19.8 22.1 25.2 31.6 33.3 10.4 11.9 18.0 19.3 21.6 9.9
rquipment more than one may apply) No No Yes Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity Portable Heater Built-in Electric Units Other Equipment Fuel Oil Wood Fireplace Heating Stove	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0 0.8 0.4 19.0 15.9 3.4	5.7 0.3 Q Q Q Q 2.3 1.5 0.8 Q 0.2 3.1 2.2 1.0	7.4 0.7 0.4 Q 0.1 Q 3.3 2.4 0.7 Q 3.8 3.8 3.0,7	14.0 1.8 0.6 0.2 0.4 6.0 3.9 1.7 0.3 Q 6.7 5.9	8.7 1.2 0.7 Q 0.2 0.3 3.0 2.0 0.8 0.3 Q 5.4 4.5 0.9	3.5 0.3 0.2 Q Q 1.4 0.8 0.5 Q 0.1 1.7 1.0	7.9 0.6 0.3 Q 0.1 3.3 2.2 1.0 Q Q 4.4 3.6 1.0	8.7 0.5 0.1 Q 0.2 Q 3.4 2.3 0.9 Q Q 4.9 4.0 1.0	7.5 1.3 0.5 0.2 0.2 0.4 3.0 2.2 0.7 0.2 Q 3.6 3.2 0.4	8.3 1.2 0.6 0.5 Q 0.1 3.5 2.3 1.0 0.2 Q 4.3 4.1 0.3	7.7 19.8 22.1 25.2 31.6 33.3 10.4 11.9 18.0 19.3 21.6 9.9 10.7 15.8
rquipment more than one may apply) No Yes Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity Portable Heater Built-in Electric Units Other Equipment Fuel Oil Wood Fireplace Heating Stove Other Equipment	35.9 4.1 1.8 0.6 0.9 14.6 9.8 4.0 0.8 0.4 19.0 15.9 3.4 0.2	5.7 0.3 Q Q Q Q 2.3 1.5 0.8 Q 0.2 3.1 2.2 1.0 Q	7.4 0.7 0.4 Q 0.1 Q 3.3 2.4 0.7 Q Q 3.8 3.3 0.7 Q	14.0 1.8 0.6 0.6 0.2 0.4 6.0 3.9 1.7 0.3 Q 6.7 5.9 0.9	8.7 1.2 0.7 Q 0.2 0.3 3.0 2.0 0.8 0.3 Q 5.4 4.5 0.9 Q	3.5 0.3 0.2 Q Q 1.4 0.8 0.5 Q 0.1 1.7 1.0 0.7 Q	7.9 0.6 0.3 Q 0.1 3.3 2.2 1.0 Q 4.4 3.6 1.0 Q	8.7 0.5 0.1 Q 0.2 Q 3.4 2.3 0.9 Q 4.9 4.0 1.0 Q	7.5 1.3 0.5 0.2 0.4 3.0 2.2 0.7 0.2 Q 3.6 3.2 0.4 Q	8.3 1.2 0.6 0.5 Q 0.1 3.5 2.3 1.0 0.2 Q 4.3 4.1	7.7 19.8 22.1 25.2 31.6 33.3 10.4 11.9 18.0 19.3 21.6 9.9 10.7 15.8 60.8
rquipment more than one may apply) No No Yes Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity Portable Heater Built-in Electric Units Other Equipment Fuel Oil Wood Fireplace Heating Stove	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0 0.8 0.4 19.0 15.9 3.4	5.7 0.3 Q Q Q Q 2.3 1.5 0.8 Q 0.2 3.1 2.2 1.0	7.4 0.7 0.4 Q 0.1 Q 3.3 2.4 0.7 Q 3.8 3.8 3.0,7	14.0 1.8 0.6 0.2 0.4 6.0 3.9 1.7 0.3 Q 6.7 5.9	8.7 1.2 0.7 Q 0.2 0.3 3.0 2.0 0.8 0.3 Q 5.4 4.5 0.9	3.5 0.3 0.2 Q Q 1.4 0.8 0.5 Q 0.1 1.7 1.0	7.9 0.6 0.3 Q 0.1 3.3 2.2 1.0 Q Q 4.4 3.6 1.0	8.7 0.5 0.1 Q 0.2 Q 3.4 2.3 0.9 Q Q 4.9 4.0 1.0	7.5 1.3 0.5 0.2 0.2 0.4 3.0 2.2 0.7 0.2 Q 3.6 3.2 0.4	8.3 1.2 0.6 0.5 Q 0.1 3.5 2.3 1.0 0.2 Q 4.3 4.1 0.3 Q	7.7 19.8 22.1 25.2 31.6 33.3 10.4 11.9 18.0 19.3 21.6 9.9 10.7 15.8

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • 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 1993 Residential Energy Consumption Survey. (For specific titles of forms, see Appendix D.)

Table 3.7b. Space Heating by Census Region and Climate Zone, Percent of Households, 1993 (Continued)

			Census	Region			(Climate Zon	ie		
								r than DD and		More than 2,000	
Space Heating Characteristics	Total	Northeast	Midwest	South	West	More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Few- er than 4,000 HDD	CDD and Few- er than 4,000 HDD	
RSE Column Factor:	0.5	1.0	1.2	0.9	0.8	1.4	1.2	1.1	1.0	1.1	RSE Row Factors
econdary Heating Fuel and quipment lore than one may apply)											
quipment	62.9	70.8	68.2	58.1	57.1	59.7	70.2	61.4	57.8	61.0	3.5
quipment nore than one may apply) No'es	37.1	29.2	31.8	41.9	42.9	40.3	29.8	38.6	42.2	39.0	5.9
quipment nore than one may apply) lolos	37.1 4.2	29.2 1.7	31.8 3.1	41.9 5.3	42.9 6.1	40.3 4.0	29.8 2.4	38.6 2.3	42.2 7.4	39.0 5.9	5.9 18.9
quipment nore than one may apply) lo	37.1 4.2 1.9	29.2 1.7 Q	31.8 3.1 1.5	41.9 5.3 1.9	42.9 6.1 3.6	40.3 4.0 2.5	29.8 2.4 1.3	38.6 2.3 0.6	42.2 7.4 2.9	39.0 5.9 2.8	5.9 18.9 22.1
quipment nore than one may apply) No	37.1 4.2 1.9 1.0	29.2 1.7 Q Q	31.8 3.1 1.5 Q	41.9 5.3 1.9 1.9	42.9 6.1 3.6 Q	40.3 4.0 2.5 Q	29.8 2.4 1.3 Q	38.6 2.3 0.6 Q	42.2 7.4 2.9 1.0	39.0 5.9 2.8 2.4	5.9 18.9 22.1 23.8
quipment nore than one may apply) No	37.1 4.2 1.9 1.0 0.6	29.2 1.7 Q Q Q	31.8 3.1 1.5 Q 0.6	41.9 5.3 1.9 1.9 0.7	42.9 6.1 3.6 Q 1.0	40.3 4.0 2.5 Q Q	29.8 2.4 1.3 Q Q	38.6 2.3 0.6 Q 0.9	42.2 7.4 2.9 1.0 1.3	39.0 5.9 2.8 2.4 Q	5.9 18.9 22.1 23.8 30.4
quipment nore than one may apply) No	37.1 4.2 1.9 1.0 0.6 0.9	29.2 1.7 Q Q Q Q	31.8 3.1 1.5 Q 0.6 Q	41.9 5.3 1.9 1.9 0.7 1.1	42.9 6.1 3.6 Q 1.0 1.5	40.3 4.0 2.5 Q Q	29.8 2.4 1.3 Q Q 0.5	38.6 2.3 0.6 Q 0.9 Q	42.2 7.4 2.9 1.0 1.3 2.5	39.0 5.9 2.8 2.4 Q 0.6	5.9 18.9 22.1 23.8 30.4 32.5
quipment nore than one may apply) No	37.1 4.2 1.9 1.0 0.6 0.9 15.1	29.2 1.7 Q Q Q Q Q 11.8	31.8 3.1 1.5 Q 0.6 Q 14.0	41.9 5.3 1.9 1.9 0.7 1.1 17.9	42.9 6.1 3.6 Q 1.0 1.5 15.0	40.3 4.0 2.5 Q Q Q 16.6	29.8 2.4 1.3 Q Q 0.5 12.4	38.6 2.3 0.6 Q 0.9 Q	42.2 7.4 2.9 1.0 1.3 2.5 17.1	39.0 5.9 2.8 2.4 Q 0.6 16.3	5.9 18.9 22.7 23.8 30.4 32.5 8.8
quipment nore than one may apply) No	37.1 4.2 1.9 1.0 0.6 0.9 15.1 10.1	29.2 1.7 Q Q Q Q Q 11.8 7.7	31.8 3.1 1.5 Q 0.6 Q 14.0 10.2	41.9 5.3 1.9 1.9 0.7 1.1 17.9	42.9 6.1 3.6 Q 1.0 1.5 15.0 9.8	40.3 4.0 2.5 Q Q Q 16.6 9.2	29.8 2.4 1.3 Q Q 0.5 12.4 8.3	38.6 2.3 0.6 Q 0.9 Q 15.0 10.4	42.2 7.4 2.9 1.0 1.3 2.5 17.1 12.2	39.0 5.9 2.8 2.4 Q 0.6 16.3 10.9	5.9 18.9 22.7 23.8 30.4 32.5 8.8 10.5
quipment nore than one may apply) No	37.1 4.2 1.9 1.0 0.6 0.9 15.1 10.1 4.1	29.2 1.7 Q Q Q Q 11.8 7.7 4.3	31.8 3.1 1.5 Q 0.6 Q 14.0 10.2 2.9	41.9 5.3 1.9 1.9 0.7 1.1 17.9 11.7 5.0	42.9 6.1 3.6 Q 1.0 1.5 15.0 9.8 4.0	40.3 4.0 2.5 Q Q Q 16.6 9.2 5.9	29.8 2.4 1.3 Q Q 0.5 12.4 8.3 3.7	38.6 2.3 0.6 Q 0.9 Q 15.0 10.4 3.9	42.2 7.4 2.9 1.0 1.3 2.5 17.1 12.2 3.7	39.0 5.9 2.8 2.4 Q 0.6 16.3 10.9 4.5	5.9 18.9 22.7 23.8 30.4 32.5 8.8 10.5 17.0
quipment nore than one may apply) No	37.1 4.2 1.9 1.0 0.6 0.9 15.1 10.1 4.1 0.8	29.2 1.7 Q Q Q Q 11.8 7.7 4.3 Q	31.8 3.1 1.5 Q 0.6 Q 14.0 10.2 2.9 Q	41.9 5.3 1.9 1.9 0.7 1.1 17.9 11.7 5.0 1.0	42.9 6.1 3.6 Q 1.0 1.5 15.0 9.8 4.0 1.6	40.3 4.0 2.5 Q Q Q 16.6 9.2 5.9 Q	29.8 2.4 1.3 Q Q 0.5 12.4 8.3 3.7 Q	38.6 2.3 0.6 Q 0.9 Q 15.0 10.4 3.9 Q	42.2 7.4 2.9 1.0 1.3 2.5 17.1 12.2 3.7 1.1	39.0 5.9 2.8 2.4 Q 0.6 16.3 10.9 4.5 1.2	5.9 18.9 22.7 23.8 30.4 32.5 8.8 10.5 17.0
quipment nore than one may apply) No	37.1 4.2 1.9 1.0 0.6 0.9 15.1 10.1 4.1 0.8 0.4	29.2 1.7 Q Q Q Q 11.8 7.7 4.3 Q	31.8 3.1 1.5 Q 0.6 Q 14.0 10.2 2.9 Q	41.9 5.3 1.9 1.9 0.7 1.1 17.9 11.7 5.0 1.0 Q	42.9 6.1 3.6 Q 1.0 1.5 15.0 9.8 4.0 1.6 Q	40.3 4.0 2.5 Q Q 16.6 9.2 5.9 Q	29.8 2.4 1.3 Q Q 0.5 12.4 8.3 3.7 Q	38.6 2.3 0.6 Q 0.9 Q 15.0 10.4 3.9 Q	42.2 7.4 2.9 1.0 1.3 2.5 17.1 12.2 3.7 1.1 Q	39.0 5.9 2.8 2.4 Q 0.6 16.3 10.9 4.5 1.2	5.9 18.9 22.7 23.8 30.4 32.5 8.8 10.5 17.0 18.4 23.0
quipment nore than one may apply) No	37.1 4.2 1.9 1.0 0.6 0.9 15.1 10.1 4.1 0.8 0.4 19.7	29.2 1.7 Q Q Q Q 11.8 7.7 4.3 Q 1.2 16.0	31.8 3.1 1.5 Q 0.6 Q 14.0 10.2 2.9 Q Q	41.9 5.3 1.9 1.9 0.7 1.1 17.9 11.7 5.0 0 20.0	42.9 6.1 3.6 Q 1.0 1.5 15.0 9.8 4.0 1.6 Q 26.3	40.3 4.0 2.5 Q Q Q 16.6 9.2 5.9 Q	29.8 2.4 1.3 Q 0.5 12.4 8.3 3.7 Q	38.6 2.3 0.6 Q 0.9 Q 15.0 10.4 3.9 Q	42.2 7.4 2.9 1.0 1.3 2.5 17.1 12.2 3.7 1.1 Q	39.0 5.9 2.8 2.4 Q 0.6 16.3 10.9 4.5 1.2 Q	5.9 18.9 22.7 23.8 30.4 32.5 8.8 10.5 17.0 18.4 23.0
quipment nore than one may apply) No	37.1 4.2 1.9 1.0 0.6 0.9 15.1 10.1 4.1 0.8 0.4 19.7 16.5	29.2 1.7 Q Q Q 11.8 7.7 4.3 Q 1.2 16.0	31.8 3.1 1.5 Q 0.6 Q 14.0 10.2 2.9 Q Q 16.4 14.1	41.9 5.3 1.9 1.9 0.7 1.1 17.9 11.7 5.0 1.0 Q 20.0 17.6	42.9 6.1 3.6 Q 1.0 1.5 15.0 9.8 4.0 1.6 Q 26.3 22.3	40.3 4.0 2.5 Q Q 16.6 9.2 5.9 Q 1.5 20.0	29.8 2.4 1.3 Q 0.5 12.4 8.3 3.7 Q 16.7 13.5	38.6 2.3 0.6 Q 0.9 Q 15.0 10.4 3.9 Q Q 22.0	42.2 7.4 2.9 1.0 1.3 2.5 17.1 12.2 3.7 1.1 Q 20.2 18.0	39.0 5.9 2.8 2.4 Q 0.6 16.3 10.9 4.5 1.2 Q 20.2 19.3	5.9 18.9 22.7 23.8 30.4 32.5 8.8 10.5 17.0 18.4 23.0 8.9
quipment nore than one may apply) No	37.1 4.2 1.9 1.0 0.6 0.9 15.1 10.1 4.1 0.8 0.4 19.7 16.5 3.6	29.2 1.7 Q Q Q 11.8 7.7 4.3 Q 1.2 16.0 11.2 5.2	31.8 3.1 1.5 Q 0.6 Q 14.0 10.2 2.9 Q Q 16.4 14.1 2.8	41.9 5.3 1.9 0.7 1.1 17.9 11.7 5.0 1.0 Q 20.0 17.6 2.7	42.9 6.1 3.6 Q 1.0 1.5 15.0 9.8 4.0 1.6 Q 26.3 22.3 4.2	40.3 4.0 2.5 Q Q 16.6 9.2 5.9 Q 1.5 20.0 11.7 8.3	29.8 2.4 1.3 Q 0.5 12.4 8.3 3.7 Q Q 16.7 13.5 3.8	38.6 2.3 0.6 Q 0.9 Q 15.0 10.4 3.9 Q Q 22.0 17.9 4.6	42.2 7.4 2.9 1.0 1.3 2.5 17.1 12.2 3.7 1.1 Q 20.2 18.0 2.2	39.0 5.9 2.8 2.4 Q 0.6 16.3 10.9 4.5 1.2 Q 20.2 19.3 1.3	5.9 18.9 22.7 23.8 30.4 32.5 8.8 10.5 17.0 18.4 23.0 9.7
quipment nore than one may apply) No	37.1 4.2 1.9 1.0 0.6 0.9 15.1 10.1 4.1 0.8 0.4 19.7 16.5 3.6 0.2	29.2 1.7 Q Q Q 11.8 7.7 4.3 Q 1.2 16.0 11.2 Q	31.8 3.1 1.5 Q 0.6 Q 14.0 10.2 2.9 Q Q 16.4 14.1 2.8 Q	41.9 5.3 1.9 0.7 1.1 17.9 11.7 5.0 1.0 Q 20.0 17.6 2.7 Q	42.9 6.1 3.6 Q 1.0 1.5 15.0 9.8 4.0 1.6 Q 26.3 22.3 4.2 Q	40.3 4.0 2.5 Q Q 16.6 9.2 5.9 Q 1.5 20.0 11.7 8.3 Q	29.8 2.4 1.3 Q 0.5 12.4 8.3 3.7 Q 16.7 13.5 3.8 Q	38.6 2.3 0.6 Q 0.9 Q 15.0 10.4 3.9 Q Q 22.0 17.9 4.6 Q	42.2 7.4 2.9 1.0 1.3 2.5 17.1 12.2 3.7 1.1 Q 20.2 18.0 2.2 Q	39.0 5.9 2.8 2.4 Q 0.6 16.3 10.9 4.5 1.2 Q 20.2 19.3 1.3 Q	5.9 18.9 22.1 23.8 30.4 32.5 8.8 10.5 17.0 18.4 23.0 9.7 15.4
quipment nore than one may apply) No	37.1 4.2 1.9 1.0 0.6 0.9 15.1 10.1 4.1 0.8 0.4 19.7 16.5 3.6	29.2 1.7 Q Q Q 11.8 7.7 4.3 Q 1.2 16.0 11.2 5.2	31.8 3.1 1.5 Q 0.6 Q 14.0 10.2 2.9 Q Q 16.4 14.1 2.8	41.9 5.3 1.9 0.7 1.1 17.9 11.7 5.0 1.0 Q 20.0 17.6 2.7	42.9 6.1 3.6 Q 1.0 1.5 15.0 9.8 4.0 1.6 Q 26.3 22.3 4.2	40.3 4.0 2.5 Q Q 16.6 9.2 5.9 Q 1.5 20.0 11.7 8.3	29.8 2.4 1.3 Q 0.5 12.4 8.3 3.7 Q Q 16.7 13.5 3.8	38.6 2.3 0.6 Q 0.9 Q 15.0 10.4 3.9 Q Q 22.0 17.9 4.6	42.2 7.4 2.9 1.0 1.3 2.5 17.1 12.2 3.7 1.1 Q 20.2 18.0 2.2	39.0 5.9 2.8 2.4 Q 0.6 16.3 10.9 4.5 1.2 Q 20.2 19.3 1.3	5.9 18.9 22.1 23.8 30.4 32.5 8.8 10.5 17.0 18.4 23.0 8.9 7.15.4

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

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 1993 Residential Energy Consumption Survey. (For specific titles of forms, see Appendix D.)

Table 3.8a. Space Heating by Year of Construction, Million U.S. Households, 1993

					Year	of Constru	ction				
Space Heating Characteristics	Total	1991 to 1993 ¹	1988 to 1990	1985 to 1987	1980 to 1984	1970 to 1979	1960 to 1969	1950 to 1959	1940 to 1949	1939 or Before	
RSE Column Factor:	0.4	1.5	1.3	1.5	1.1	0.9	0.9	1.0	1.2	0.8	RSE Row Factors
Total	96.6	4.5	4.7	5.5	8.5	18.1	15.0	13.1	6.9	20.4	5.3
Main Heating Fuel and Equipment											
Natural Gas	50.8	2.1	1.8	2.2	3.4	7.6	8.9	8.1	4.3	12.4	7.9
Central Warm-Air Furnace	34.9	2.0	1.6	2.0	3.0	5.9	6.2	5.5	2.4	6.4	9.1
For One Housing Unit	34.1	2.0	1.6	1.9	2.9	5.8	6.0	5.4	2.3	6.0	9.3
For Two or More Units	0.9	Q	Q	Q	Q	Q	Q	Q	Q	0.4	39.3
Steam or Hot-Water System	8.7	Q	0.1	Q	0.3	1.0	1.8	0.9	0.7	3.6	21.0
For One Housing Unit	5.1	ã	0.1	ã	0.2	0.3	0.9	0.8	0.4	2.2	25.1
For Two or More Units	3.6	Q	Q	Q	Q	0.7	0.9	Q	0.3	1.4	25.3
Pipeless Furnace	4.3	Q	Q	Q	0.1	0.5	0.6	1.3	0.7	1.0	20.8
Room Heater/Other	2.8	Q	Q	Q	Q	0.2	0.3	0.4	0.5	1.4	23.9
Electricity	25.3	1.9	2.2	2.8	4.0	7.0	3.5	1.9	0.7	1.4	10.6
Built-In Electric Units	7.0	Q	0.3	0.3	0.8	2.3	1.4	0.6	0.4	0.7	19.6
Central Warm-Air Furnace	9.5	0.8	0.9	1.1	1.7	2.8	1.2	0.7	Q	0.2	16.4
For One Housing Unit	9.3	0.8	0.9	1.1	1.7	2.7	1.1	0.6	Q	0.2	16.3
Heat Pump	7.5	0.8	1.0	1.3	1.3	1.7	0.7	0.5	Q	0.2	19.2
Other	1.3	Q	Q	Q	0.1	0.3	0.3	Q	ã	0.2	30.0
Fuel Oil	10.2	0.1	0.2	0.2	0.3	1.2	1.2	1.8	1.2	4.1	16.7
Steam or Hot-Water System	5.3	0.1	0.1	0.1	0.1	0.6	0.5	1.0	0.6	2.2	21.0
For One Housing Unit	3.5	0.1	0.1	0.1	0.1	0.5	0.4	0.7	0.3	1.3	23.8
For Two or More Units	1.8	Q	Q	Q	Q	Q.	Q	0.3	0.4	0.9	21.8
Central Warm-Air Furnace	4.5	Q	0.1	0.1	0.2	0.5	0.6	0.7	0.5	1.7	23.1
Other	0.4	Q	Q.	Q	Q.2	Q.S	Q.U	Q.	Q.J	0.2	42.2
Wood	3.1	Q	0.2	0.1	0.3	0.8	0.4	0.4	0.2	0.7	20.7
Heating Stove	2.4	Q	0.2	0.1	0.3	0.5	0.4	0.4	0.2	0.6	23.3
Other	0.7	Q	Q.2	Q	0.2	0.3	Q.4	Q.3	Q	Q.U	35.8
LPG	4.8	0.3	0.2	0.2	0.1	1.0	0.6	0.5	0.4	1.2	20.4
Central Warm-Air Furnace	3.1	0.3	0.2	0.2	0.3	0.7	0.5	0.3	Q.4	0.6	23.4
Room Heater	1.1	Q.3	Q.2	Q.2	Q.3	0.7	Q.3	0.2	0.2	0.4	33.7
Other	0.6	Q	Q	Q	Q	Q.2	Q	Q.3	Q.2	0.4	46.4
Kerosene	1.0	Q	Q	0.1	Q	0.3	Q	Q	Q	0.2	34.7
Other	0.4	Q	Q	Q. I	Q	0.3 Q	Q	Q	Q	0.2	74.3
None	0.9	Q	Q	Q	Q	0.2	0.2	0.2	Q	Q.2	40.6
Amount of Heat Provided											
by Main Heating Equipment	07.0	4.0	4.0	- 4	7.0	40.4	40.5	44.7	0.4	40.0	
All or Almost All	87.3	4.2	4.3	5.1	7.9	16.4	13.5	11.7	6.1	18.2	5.6
About Three-Fourths	5.4	0.2	0.3	0.2	0.3	1.0	0.9	0.9	0.4	1.1	17.0
Closer to One-Half No Main Equipment	3.1 0.9	0.1 Q	0.1 Q	0.1 Q	0.2 Q	0.5 0.2	0.4 0.2	0.3 0.2	0.4 Q	0.9 Q	22.3 40.6
Age of Main											
Heating Equipment			_								1
Less than 2 Years	9.0	2.7	Q	0.1	0.4	1.1	1.2	1.4	0.5	1.5	14.9
2 to 4 Years	10.6	1.5	2.1	0.2	0.4	1.5	1.2	1.4	0.9	1.6	14.4
5 to 9 Years	17.7	Q	2.2	4.4	1.3	1.5	1.9	1.8	1.3	3.2	9.5
10 to 19 Years	21.6	Q	Q	0.2	5.0	6.9	1.8	2.6	1.2	3.9	9.2
20 Years or More	21.5	Q	Q	Q	Q	3.8	5.9	3.7	1.9	6.1	8.3
Don't Know	15.3	0.3	0.3 Q	0.6	1.2	3.1 0.2	2.8	2.0	1.0 Q	4.0	12.5
No Main Equipment	0.9	Q		Q	Q		0.2	0.2		Q	40.6

Table 3.8b. Space Heating by Year of Construction, Percent of Households, 1993

					Year	of Constru	ction				
Space Heating Characteristics	Total	1991 to 1993 ¹	1988 to 1990	1985 to 1987	1980 to 1984	1970 to 1979	1960 to 1969	1950 to 1959	1940 to 1949	1939 or Before	
Onardoteristics											RSE Row
RSE Column Factor:	0.4	1.4	1.3	1.4	1.1	0.9	0.9	1.0	1.2	0.8	Factors
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Main Heating Fuel and Equipment											
Natural Gas	52.6	46.4	38.0	39.2	40.4	42.1	59.3	62.1	62.2	61.0	5.9
Central Warm-Air Furnace	36.2	44.6	34.8	36.2	35.2	32.4	41.0	42.0	34.3	31.6	7.4
For One Housing Unit	35.3	44.2	34.8	35.3	34.4	31.8	40.1	41.6	33.8	29.7	7.6
For Two or More Units	0.9	Q	Q	Q	Q	Q	Q	Q	Q	1.9	37.5
Steam or Hot-Water System	9.0	Q	2.6	Q	3.3	5.6	12.3	7.1	10.8	17.8	19.6
For One Housing Unit	5.3	Q	1.7	Q	2.3	1.6	6.0	6.4	6.0	11.0	23.7
For Two or More Units	3.8	Q	Q	Q	Q	4.1	6.3	Q	4.9	6.8	24.0
Floor, Wall, or								-			
Pipeless Furnace	4.4	Q	Q	Q	1.6	2.8	4.1	9.9	9.9	4.9	20.4
Room Heater/Other	2.9	Q	Q	Q	Q	1.3	1.8	3.0	7.1	6.7	23.6
Electricity	26.2	42.6	46.1	50.3	46.9	38.7	23.1	14.9	10.4	6.7	8.8
Built-In Electric Units	7.2	Q	6.1	6.2	9.3	12.8	9.1	4.8	5.5	3.4	19.1
Central Warm-Air Furnace	9.8	18.5	18.8	20.1	20.1	15.2	7.7	5.5	Q.5	1.0	15.4
For One Housing Unit	9.6	18.5	18.8	20.1	20.1	15.2	7.7	4.7	Q	1.0	15.4
						9.1			Q		
Heat Pump	7.8	18.9	20.3	23.4	15.7		4.4	3.5		1.2	17.8
Other	1.4	Q	Q	Q	1.7	1.6	1.8	Q	Q	1.1	29.0
Fuel Oil	10.6	2.9	4.5	3.0	3.2	6.6	8.0	13.6	17.1	20.1	16.2
Steam or Hot-Water System	5.5	2.2	2.1	1.3	1.3	3.5	3.5	7.4	9.2	10.8	20.7
For One Housing Unit	3.6	1.7	1.8	1.3	1.0	2.8	2.7	5.4	3.8	6.5	23.8
For Two or More Units	1.9	Q	Q	Q_	Q	Q	Q	2.0	5.4	4.4	21.0
Central Warm-Air Furnace	4.7	Q	2.4	1.7	1.9	2.9	4.1	5.7	7.4	8.4	22.3
Other	0.4	Q	Q	Q	Q	Q	Q	Q	Q	0.9	40.6
Wood	3.2	Q	4.2	1.8	3.9	4.2	2.8	3.1	3.1	3.3	21.0
Heating Stove	2.5	Q	3.6	1.5	2.8	2.9	2.4	2.3	2.0	2.8	23.4
Other	8.0	Q	Q	Q	1.1	1.3	Q	Q	Q	Q	34.4
LPG	5.0	7.6	5.2	4.4	3.7	5.3	4.3	4.0	5.2	5.9	20.5
Central Warm-Air Furnace	3.2	7.1	4.7	3.8	3.7	3.7	3.1	1.4	Q	3.1	23.1
Room Heater	1.2	Q	Q	Q	Q	1.0	Q	2.1	3.0	1.9	33.4
Other	0.6	Q	Q	Q	Q	Q	Q	Q	Q	0.9	45.2
Kerosene	1.0	Q	Q	1.3	Q	1.4	Q	Q	Q	1.2	34.0
Other	0.4	Q	Q	Q	Q	Q	Q	Q	Q	1.1	70.5
None	0.9	Q	Q	Q	Q	1.2	1.4	1.3	Q	Q	38.8
Amount of Heat Provided											
by Main Heating Equipment	00.0	02.0	00.0	00.0	00.0	00.0	00.7	00.0	07.7	00.0	4.0
All or Almost All	90.3	93.9	90.3	93.3	92.8	90.3	89.7	89.9	87.7	89.3	1.3
About Three-Fourths	5.6	4.4	6.8	4.5	3.9	5.7	6.0	6.7	5.4	5.6	16.7
Closer to One-Half No Main Equipment	3.2 0.9	1.8 Q	2.4 Q	2.2 Q	2.7 Q	2.9 1.2	2.9 1.4	2.1 1.3	5.7 Q	4.5 Q	22.0 38.8
Age of Main											
Heating Equipment											
Less than 2 Years	9.3	60.1	Q	2.6	5.2	6.0	7.9	10.9	7.6	7.2	13.0
2 to 4 Years	11.0	33.2	43.6	2.8	4.3	8.4	8.3	10.5	12.5	7.7	12.9
5 to 9 Years	18.3	Q	45.9	80.4	15.9	8.4	12.7	14.1	18.4	15.9	7.8
10 to 19 Years	22.4	Q	Q	3.2	59.5	38.1	11.7	19.8	17.2	19.2	7.7
20 Years or More	22.2	Q	Q	Q	Q	21.0	39.0	28.3	28.2	29.8	6.2
			7.0								
Don't Know	15.8	6.2	7.0	11.0	14.0	16.9	18.9	15.2	14.9	19.6	11.9

Table 3.8a. Space Heating by Year of Construction, Million U.S. Households, 1993 (Continued)

					Year	of Constru	ction				
Space Heating Characteristics	Total	1991 to 1993 ¹	1988 to 1990	1985 to 1987	1980 to 1984	1970 to 1979	1960 to 1969	1950 to 1959	1940 to 1949	1939 or Before	
RSE Column Factor:	0.4	1.5	1.3	1.5	1.1	0.9	0.9	1.0	1.2	0.8	RSE Row Factors
Secondary Heating Fuel and											
more than one may apply)											
No	60.8	2.7	2.6	3.1	5.0	11.3	9.7	8.3	4.6	13.5	6.7
Yes	35.9	1.8	2.2	2.3	3.4	6.8	5.3	4.7	2.4	6.9	7.6
Natural Gas	4.1	0.4	0.3	0.3	0.3	0.5	0.6	0.6	0.3	0.9	20.7
Fireplace	1.8	0.4	0.1	0.2	Q	0.2	0.2	0.2	Q	0.2	30.0
Room Heater	1.0	Q	Q	Q	Q	Q	Q	0.2	Q	0.3	27.
Central Warm-Air Furnace	0.6	Q	Q	Q	Q	Q	Q	Q	Q	Q	48.
Other Equipment	0.9	Q	Q	Q	Q	Q	Q	0.1	Q	0.4	38.
Electricity	14.6	0.4	0.6	0.8	1.3	2.4	2.2	2.1	1.0	3.8	10.8
Portable Heater	9.8	0.3	0.3	0.5	0.9	1.5	1.5	1.5	0.7	2.7	13.
Built-in Electric Units	4.0	0.1	0.2	0.3	0.4	0.6	0.6	0.6	0.2	1.0	20.
Other Equipment	0.8	Q	Q	Q	Q	0.2	Q	Q	Q	Q	27.
Fuel Oil	0.4	Q	Q	Q	Q	Q	Q	Q	Q	0.2	43.
Wood	19.0	1.2	1.5	1.5	2.0	4.3	2.8	2.6	1.0	2.1	10.
Fireplace	15.9	1.2	1.3	1.4	1.8	3.6	2.4	2.2	0.7	1.3	11.
Heating Stove	3.4	0.1	0.1	0.1	0.2	0.9	0.4	0.5	0.3	0.7	20.
Other Equipment	0.2	Q	Q	Q	Q.	Q	Q	Q	Q	Q.	72.
LPG	1.2	Q	0.1	Q	0.1	0.3	Q	Q	Q	0.3	31.
Kerosene	2.6	Q	0.1	0.1	0.1	0.4	0.5	0.3	0.2	0.9	27.
Other	0.4	Q	Q	Q	Q	Q	Q	Q	Q	Q	60.

¹ Does not include all new construction for 1993.

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 1993 Residential Energy Consumption Survey.

(For specific titles of forms, see Appendix D.)

Table 3.8b. Space Heating by Year of Construction, Percent of Households, 1993 (Continued)

					Year	of Constru	ction				
Space Heating Characteristics	Total	1991 to 1993 ¹	1988 to 1990	1985 to 1987	1980 to 1984	1970 to 1979	1960 to 1969	1950 to 1959	1940 to 1949	1939 or Before	
RSE Column Factor:	0.4	1.4	1.3	1.4	1.1	0.9	0.9	1.0	1.2	0.8	RSE Row Factor
Secondary Heating Fuel and											
more than one may apply)											
No	62.9	59.3	54.3	57.3	59.6	62.4	64.6	63.7	65.9	66.2	3.9
Yes	37.1	40.7	45.7	42.7	40.4	37.6	35.4	36.3	34.1	33.8	6.2
Natural Gas	4.2	8.7	6.0	5.9	3.2	2.5	3.9	4.4	4.8	4.2	20.
Fireplace	1.9	8.1	3.1	4.0	Q	1.2	1.3	1.4	Q	0.7	29.
Room Heater	1.0	Q	Q	Q	Q	Q	Q	1.5	Q	1.5	26.
Central Warm-Air Furnace	0.6	Q	Q	Q	Q	Q	Q	Q	Q	Q	45.
Other Equipment	0.9	Q	Q	Q	Q	Q	Q	1.1	Q	1.8	37.
Electricity	15.1	8.2	12.3	14.0	15.8	13.3	14.7	16.4	15.2	18.4	10.
Portable Heater	10.1	5.8	6.8	9.3	10.3	8.2	9.9	11.1	9.9	13.4	12.
Built-in Electric Units	4.1	1.4	4.0	4.7	5.2	3.5	3.8	4.9	3.2	4.8	20.
Other Equipment	0.8	Q	Q	Q	Q	1.3	Q	Q	Q	Q	26.
Fuel Oil	0.4	Q	Q	Q	Q	Q	Q	Q	Q	0.7	41.
Wood	19.7	27.8	30.8	27.3	23.9	23.8	18.5	20.0	14.6	10.1	9.
Fireplace	16.5	26.2	28.0	25.0	21.1	20.0	16.1	16.6	10.8	6.5	10.
Heating Stove	3.6	2.2	3.1	2.4	2.9	5.1	2.7	3.7	3.7	3.7	20.
Other Equipment	0.2	Q	Q	Q	Q	Q	Q	Q	Q	Q	67.
LPG	1.3	Q	1.7	Q	1.2	1.7	Q	Q	Q	1.4	31.
Kerosene	2.7	Q	2.0	1.9	1.5	2.0	3.3	2.5	2.8	4.3	27
Other	0.4	Q	Q	Q	Q	Q	Q	Q	Q	Q	55

¹ Does not include all new construction for 1993.

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 1993 Residential Energy Consumption Survey.

(For specific titles of forms, see Appendix D.)

Table 3.9a. Space Heating by Type and Ownership of Housing Unit, Million U.S. Households, 1993

Single-Family Two to Four Units Five or More Units Mobile Home			10400												
Single-Family Total Own Rent Total Own Total Own						Т	ype and	Ownersh	nip of Ho	using Ur	nit				
Space Heating Characteristics								Multi	family						
Characteristics			Sir	ngle-Fam	ily	Two	to Four	Units	Five	or More	Units	M	obile Ho	me	
RSE Column Factor:		Total	Total	Own	Rent	Total	Own	Rent	Total	Own	Rent	Total	Own	Rent	
Main Heating Fuel and Equipment Natural Gas	RSE Column Factor:	0.4	0.4	0.4	0.9	1.1	1.8	1.1	0.9	2.5	1.0	1.2	1.3	2.0	_
Natural Gas	Total	96.6	66.8	55.8	11.0	8.0	1.5	6.5	16.2	1.6	14.7	5.6	4.4	1.2	5.9
Central Warm-Air Furnace	Main Heating Fuel and Equipment														
For One Housing Unit															
Steam or Hot-Water System															
For One Housing Unit	For Two or More Units														
For Two or More Units															
Pipeless Furnace															
Room Heater/Other							_			_		_	_	_	
Electricity															
Built-histed Fleetric Units 7.0 3.3 2.6 0.7 1.1 Q 1.1 2.5 Q 2.3 0.1 0.1 Q 22.5															
For One Housing Unit															
Heat Pump															
Other															
Fuel Oil															
For One Housing Unit							0.3							Q	
For Two or More Units															
Central Warm-Air Furnace															
Other															
Heating Stove							Q	Q		Q	Q	Q	Q		
Other															
LPG															
Room Heater															
Other 0.6 0.4 0.3 0.1 Q <															
Kerosene															
Other 0.4 Q Q Q Q Q Q Q 0.1 Q 0.1 Q Q Q Q 41.0 Amount of Heat Provided by Main Heating Equipment All or Almost All 87.3 59.1 49.4 9.7 7.5 1.3 6.1 15.5 1.5 14.1 5.1 4.1 1.0 6.2 About Three-Fourths 5.4 4.8 4.1 0.6 0.2 Q Q 0.2 Q 0.2															
Amount of Heat Provided by Main Heating Equipment All or Almost All															
Name	None	0.9	0.5	0.3	0.2	Q	Q	Q	0.3	Q	0.2	Q	Q	Q	41.0
Name	Amount of Heat Provided														
About Three-Fourths 5.4 4.8 4.1 0.6 0.2 Q Q 0.2 Q 0.2 0.2 0.2 0.2 Q 22.1 Closer to One-Half 3.1 2.5 2.0 0.5 0.3 Q 0.3 0.2 Q 0.2 0.1 0.1 Q 25.2 No Main Equipment 0.9 0.5 0.3 0.2 Q Q 0.3 Q 0.2 Q 0.2 Q Q 41.0 Age of Main Heating Equipment Less than 2 Years 9.0 6.9 6.0 0.9 0.4 Q 0.3 1.1 Q 1.0 0.5 0.4 Q 17.7 2 to 4 Years 10.6 8.5 7.6 0.9 0.6 0.2 0.4 0.6 Q 0.5 0.9 0.8 0.1 17.5 5 to 9 Years 17.7 13.9 12.0 1.9 1.1 0.3 0.8 1.4 0.2 1.2 1.4 1.2 0.2 13.3 10 to 19 Years 21.6 16.4 14.5 1.9 1.4 0.3 1.1 2.3 0.3 2.0 1.5 1.3 0.2 11.3 20 Years or More 21.5 15.9 13.4 2.5 1.9 0.4 1.4 3.0 0.5 2.5 0.6 0.5 0.2 0.3 12.3 Don't Know 15.3 4.7 1.9 2.7 2.5 Q 2.5 7.6 0.2 7.4 0.5 0.2 0.3 12.3	by Main Heating Equipment														
Closer to One-Half 3.1 2.5 2.0 0.5 0.3 Q 0.3 0.2 Q 0.2 0.1 0.1 Q 25.2 No Main Equipment 0.9 0.5 0.3 0.2 Q Q Q 0.3 Q 0.2 Q 0.2 Q Q 41.0 Age of Main Heating Equipment 9.0 6.9 6.0 0.9 0.4 Q 0.3 1.1 Q 1.0 0.5 0.4 Q 17.7 2 to 4 Years 10.6 8.5 7.6 0.9 0.6 0.2 0.4 0.6 Q 0.5 0.9 0.8 0.1 17.5 5 to 9 Years 17.7 13.9 12.0 1.9 1.1 0.3 0.8 1.4 0.2 1.2 1.4 1.2 0.2 13.3 10 to 19 Years 21.6 16.4 14.5 1.9 1.4 0.3 1.1 2.3 0.3 2.0 1.5 1.3 0.2 11.3 20 Years or More 21.5 15.9 13.4 2.5 1.9 0.4 1.4 3.0 0.5 2.5 0.6 0.5 0.2 1.1 5 Don't Know 15.3 4.7 1.9 2.7 2.5 Q 2.5 7.6 0.2 7.4 0.5 0.2 0.3 12.3															
No Main Equipment 0.9 0.5 0.3 0.2 Q Q Q 0.3 Q 0.2 Q Q Q 41.0 Age of Main Heating Equipment Less than 2 Years 9.0 6.9 6.0 0.9 0.4 Q 0.3 1.1 Q 1.0 0.5 0.4 Q 17.7 2 to 4 Years 10.6 8.5 7.6 0.9 0.6 0.2 0.4 0.6 Q 0.5 0.9 0.8 0.1 17.5 5 to 9 Years 17.7 13.9 12.0 1.9 1.1 0.3 0.8 1.4 0.2 1.2 1.4 1.2 0.2 13.3 10 to 19 Years 21.6 16.4 14.5 1.9 1.4 0.3 1.1 2.3 0.3 2.0 1.5 1.3 0.2 11.3 20 Years or More 21.5 15.9 13.4 2.5 1.9 0.4 1.4 3.0 0.5 2.5 0.6 0.5 0.2 11.5 Don															
Heating Equipment Less than 2 Years 9.0 6.9 6.0 0.9 0.4 Q 0.3 1.1 Q 1.0 0.5 0.4 Q 17.7 2 to 4 Years 10.6 8.5 7.6 0.9 0.6 0.2 0.4 0.6 Q 0.5 0.9 0.8 0.1 17.5 5 to 9 Years 17.7 13.9 12.0 1.9 1.1 0.3 0.8 1.4 0.2 1.2 1.4 1.2 0.2 13.3 10 to 19 Years 21.6 16.4 14.5 1.9 1.4 0.3 1.1 2.3 0.3 2.0 1.5 1.3 0.2 11.3 20 Years or More 21.5 15.9 13.4 2.5 1.9 0.4 1.4 3.0 0.5 2.5 0.6 0.5 0.2 11.5 Don't Know 15.3 4.7 1.9 2.7 2.5 Q 2.5 7.6 0.2 7.4 <td></td>															
Heating Equipment Less than 2 Years 9.0 6.9 6.0 0.9 0.4 Q 0.3 1.1 Q 1.0 0.5 0.4 Q 17.7 2 to 4 Years 10.6 8.5 7.6 0.9 0.6 0.2 0.4 0.6 Q 0.5 0.9 0.8 0.1 17.5 5 to 9 Years 17.7 13.9 12.0 1.9 1.1 0.3 0.8 1.4 0.2 1.2 1.4 1.2 0.2 13.3 10 to 19 Years 21.6 16.4 14.5 1.9 1.4 0.3 1.1 2.3 0.3 2.0 1.5 1.3 0.2 11.3 20 Years or More 21.5 15.9 13.4 2.5 1.9 0.4 1.4 3.0 0.5 2.5 0.6 0.5 0.2 11.5 Don't Know 15.3 4.7 1.9 2.7 2.5 Q 2.5 7.6 0.2 7.4 <td>Ago of Main</td> <td></td>	Ago of Main														
Less than 2 Years 9.0 6.9 6.0 0.9 0.4 Q 0.3 1.1 Q 1.0 0.5 0.4 Q 17.7 2 to 4 Years 10.6 8.5 7.6 0.9 0.6 0.2 0.4 0.6 Q 0.5 0.9 0.8 0.1 17.5 5 to 9 Years 17.7 13.9 12.0 1.9 1.1 0.3 0.8 1.4 0.2 1.2 1.4 1.2 0.2 13.3 10 to 19 Years 21.6 16.4 14.5 1.9 1.4 0.3 1.1 2.3 0.3 2.0 1.5 1.3 0.2 11.3 20 Years or More 21.5 15.9 13.4 2.5 1.9 0.4 1.4 3.0 0.5 2.5 0.6 0.5 0.2 11.5 Don't Know 15.3 4.7 1.9 2.7 2.5 Q 2.5 7.6 0.2 7.4 0.5 0.2 0.3 12.3	•														
5 to 9 Years 17.7 13.9 12.0 1.9 1.1 0.3 0.8 1.4 0.2 1.2 1.4 1.2 0.2 13.3 10 to 19 Years 21.6 16.4 14.5 1.9 1.4 0.3 1.1 2.3 0.3 2.0 1.5 1.3 0.2 11.3 20 Years or More 21.5 15.9 13.4 2.5 1.9 0.4 1.4 3.0 0.5 2.5 0.6 0.5 0.2 11.5 Don't Know 15.3 4.7 1.9 2.7 2.5 Q 2.5 7.6 0.2 7.4 0.5 0.2 0.3 12.3	Less than 2 Years														
10 to 19 Years 21.6 16.4 14.5 1.9 1.4 0.3 1.1 2.3 0.3 2.0 1.5 1.3 0.2 11.3 20 Years or More 21.5 15.9 13.4 2.5 1.9 0.4 1.4 3.0 0.5 2.5 0.6 0.5 0.2 11.5 Don't Know 15.3 4.7 1.9 2.7 2.5 Q 2.5 7.6 0.2 7.4 0.5 0.2 0.3 12.3															
20 Years or More															
Don't Know															
No Main Equipment															
	No Main Equipment	0.9	0.5	0.3	0.2	Q	Q	Q	0.3	Q	0.2	Q	Q	Q	41.0

Table 3.9b. Space Heating by Type and Ownership of Housing Unit, Percent of Households, 1993

1 0100111		T												
					T	ype and	Ownersh	nip of Ho	using Un	nit				
							Multif	family						
		Sir	ngle-Fam	ily	Two	to Four I	Units	Five	or More	Units	M	obile Ho	me	
Space Heating Characteristics	Total	Total	Own	Rent	Total	Own	Rent	Total	Own	Rent	Total	Own	Rent	
RSE Column Factor:	0.4	0.4	0.5	0.9	1.1	1.8	1.1	0.9	2.3	1.0	1.1	1.3	2.1	RSE Row Factors
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Main Heating Fuel and Equipment														
Natural Gas Central Warm-Air Furnace	52.6 36.2	55.9 43.0	55.7 44.2	56.7 37.4	58.1 21.7	63.3 21.0	56.9 21.9	43.2 17.2	36.9 19.7	43.9 16.9	32.4 29.7	34.5 32.5	24.6 19.0	7.8 11.8
For One Housing Unit	35.3	43.0	44.1	37.1	16.4	19.7	15.6	14.7	19.7	14.2	29.7	32.5	19.0	12.4
For Two or More Units	0.9	Q E 1	Q	Q	5.3	Q 27.6	6.2	2.4	Q	2.7	Q	Q	Q	31.5
Steam or Hot-Water System For One Housing Unit	9.0 5.3	5.4 5.4	5.9 5.9	3.0 2.6	23.9 10.8	37.6 27.1	20.8 7.1	19.4 3.8	Q Q	20.0 3.9	Q Q	Q Q	Q Q	15.3 20.1
For Two or More Units	3.8	Q.4	Q.9	Q.	13.1	Q Q	13.7	15.6	Q	16.1	Q	Q	Q	16.0
Floor, Wall, or														
Pipeless Furnace	4.4	4.4	3.2	10.4	6.3	Q	7.2	4.9	Q	5.0	Q	Q	Q	22.5
Room Heater/Other	2.9 26.2	3.0 21.4	2.4 21.0	6.0 23.5	6.2 28.1	Q 13.4	7.1 31.5	1.8 44.6	Q 45.5	1.9 44.5	Q 27.4	Q 28.2	Q 24.5	26.3 11.2
Built-In Electric Units	7.2	5.0	4.7	6.4	13.8	Q	16.2	15.2	45.5 Q	15.3	27.4	20.2	24.5 Q	21.4
Central Warm-Air Furnace	9.8	6.7	6.6	7.5	8.2	Q	9.5	19.5	17.7	19.7	20.7	20.7	20.5	15.7
For One Housing Unit	9.6	6.7	6.6	7.5	8.2	Q	9.5	18.5	17.7	18.6	20.7	20.7	20.5	15.9
Heat Pump	7.8	8.7	9.1	6.8	3.8	Q	3.0	8.2	Q	7.7	1.8	2.3	Q	23.9
OtherFuel Oil	1.4 10.6	1.0 11.4	0.7 12.0	2.9 8.4	2.3 10.8	Q 19.5	2.8 8.8	1.7 9.0	Q 11.8	1.8 8.7	2.9 5.3	Q 4.0	Q Q	30.3 16.6
Steam or Hot-Water System	5.5	5.0	5.4	2.6	7.8	19.5	6.8	9.0 8.6	11.8	8. <i>7</i> 8.2	5.3 Q	4.0 Q	Q	17.7
For One Housing Unit	3.6	4.9	5.4	2.6	2.4	Q.	1.8	Q.U	Q	Q.	Q	Q	Q	27.4
For Two or More Units	1.9	Q	Q	Q	5.5	Q	5.0	8.4	11.8	8.1	Q	Q	Q	16.3
Central Warm-Air Furnace	4.7	6.0	6.2	5.2	2.2	Q	Q	Q	Q	Q	4.8	3.8	Q	25.3
Other	0.4	0.4	0.4	Q	Q	Q Q	Q Q	Q	Q Q	Q Q	Q 4.1	Q 4.4	Q	55.5
Wood Heating Stove	3.2 2.5	4.2 3.2	4.5 3.3	3.0 2.8	Q Q	Q	Q	Q Q	Q	Q	4.1 3.6	4.4 3.7	Q Q	23.5 27.1
Other	0.8	1.0	1.2	Q.	Q	Q	Q	Q	Q	Q	Q.	Q.	Q	36.9
LPG	5.0	5.3	5.5	3.9	Q	Q	Q	Q	Q	Q	21.6	21.2	23.0	18.6
Central Warm-Air Furnace	3.2	3.1	3.3	1.9	Q	Q	Q	Q	Q	Q	18.2	18.6	16.8	21.7
Room Heater	1.2	1.5	1.7	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	42.8
Other Kerosene	0.6 1.0	0.6 0.7	0.6 0.4	1.1 1.9	Q Q	Q Q	Q Q	Q Q	Q Q	Q Q	Q 7.7	Q 6.6	Q 11.9	56.2 28.8
Other	0.4	Q.,	Q.¬	Q	Q	Q	Q	0.9	Q	1.0	Q	Q.U	Q	63.9
None	0.9	0.7	0.5	2.0	Q	Q	Q	1.7	Q	1.3	Q	Q	Q	39.9
Amount of Heat Provided														
by Main Heating Equipment	00.0	00.5	00.5	00.4	00.4	00.4	04.0	05.7	00.5	05.0	00.0	00.7	00.0	4.5
All or Almost All	90.3 5.6	88.5 7.1	88.5 7.4	88.1 5.6	93.4 2.3	90.1 Q	94.2 Q	95.7 1.4	93.5 Q	95.9 1.5	92.2 4.3	93.7 3.4	86.3 Q	1.5 21.5
Closer to One-Half	3.2	3.7	3.5	4.3	3.6	Q	4.3	1.2	Q	1.3	2.4	1.9	Q	24.6
No Main Equipment	0.9	0.7	0.5	2.0	Q	Q	Q	1.7	Q	1.3	Q	Q	Q	39.9
Age of Main														
Heating Equipment Less than 2 Years	9.3	10.4	10.8	8.1	5.3	Q	5.0	6.7	Q	6.5	9.7	9.8	Q	17.1
2 to 4 Years	11.0	12.7	13.6	8.1	8.0	15.9	6.1	3.6	Q	3.1	16.4	17.5	12.2	16.2
5 to 9 Years	18.3	20.7	21.5	16.9	13.7	20.6	12.1	8.4	12.3	8.0	25.0	26.5	19.1	11.9
10 to 19 Years	22.4	24.6	26.0	17.4	17.3	22.3	16.2	14.2	19.4	13.6	26.5	29.8	14.3	9.7
20 Years or More		23.8	24.0	22.7	23.5	29.7	22.1	18.7	33.8	17.1	11.6	10.8	14.6	10.3
Don't Know	15.8	7.0	3.5	24.8	31.5	Q	38.1	46.7	11.8	50.4	9.7	4.6	28.8	10.8
No Main Equipment	0.9	0.7	0.5	2.0	Q	Q	Q	1.7	Q	1.3	Q	Q	Q	39.9

Table 3.9a. Space Heating by Type and Ownership of Housing Unit, Million U.S. Households, 1993 (Continued)

					Т	ype and	Ownersh	nip of Ho	using Un	it				
							Multif	family						
		Single-Family		Two	to Four	Units	Five	or More	Units	M	obile Hor	ne		
Space Heating Characteristics	Total	Total	Own	Rent	Total	Own	Rent	Total	Own	Rent	Total	Own	Rent	RSE
RSE Column Factor:	0.4	0.4	0.4	0.9	1.1	1.8	1.1	0.9	2.5	1.0	1.2	1.3	2.0	Row Factors
Secondary Heating Fuel and														
more than one may apply) No	60.8	36.0	28.5	7.5	6.5	1.1	5.4	14.3	1.4	12.9	3.9	3.2	0.8	6.9
more than one may apply) No Yes	60.8 35.9	36.0 30.8	27.2	7.5 3.5	6.5 1.5	1.1 0.4	5.4 1.1	1.9	1.4 0.1	1.8	3.9 1.6	3.2 1.2	0.8 0.4	6.9 11.3
more than one may apply) No														
more than one may apply) No Yes Natural Gas Fireplace	35.9 4.1 1.8	30.8 3.6 1.7	27.2 3.2 1.5	3.5 0.4 0.1	1.5 0.1 Q	0.4 Q Q	1.1 Q Q	1.9 0.3 Q	0.1 Q Q	1.8 0.3 Q	1.6 Q Q	1.2 Q Q	0.4 Q Q	11.3 26.4 34.4
more than one may apply) No Yes Natural Gas Fireplace Room Heater	35.9 4.1 1.8 1.0	30.8 3.6 1.7 0.9	27.2 3.2 1.5 0.9	3.5 0.4 0.1 Q	1.5 0.1 Q Q	0.4 Q Q Q	1.1 Q Q Q	1.9 0.3 Q Q	0.1 Q Q Q	1.8 0.3 Q Q	1.6 Q Q Q	1.2 Q Q Q	0.4 Q Q Q	11.3 26.4 34.4 37.6
More than one may apply) No	35.9 4.1 1.8 1.0 0.6	30.8 3.6 1.7 0.9 0.6	27.2 3.2 1.5 0.9 0.5	3.5 0.4 0.1 Q Q	1.5 0.1 Q Q Q	0.4 Q Q Q Q	1.1 Q Q Q Q	1.9 0.3 Q Q Q	0.1 Q Q Q Q	1.8 0.3 Q Q Q	1.6 Q Q Q Q	1.2 Q Q Q Q	0.4 Q Q Q Q	11.3 26.4 34.4 37.6 49.1
No	35.9 4.1 1.8 1.0 0.6 0.9	30.8 3.6 1.7 0.9 0.6 0.6	27.2 3.2 1.5 0.9 0.5 0.4	3.5 0.4 0.1 Q Q 0.2	1.5 0.1 Q Q Q Q	0.4 Q Q Q Q Q	1.1 Q Q Q Q Q	1.9 0.3 Q Q Q 0.2	0.1 Q Q Q Q Q	1.8 0.3 Q Q Q 0.2	1.6 Q Q Q Q Q	1.2 Q Q Q Q Q	0.4 Q Q Q Q Q	11.3 26.4 34.4 37.6 49.1 41.3
more than one may apply) No Yes Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity	35.9 4.1 1.8 1.0 0.6 0.9 14.6	30.8 3.6 1.7 0.9 0.6 0.6 11.8	27.2 3.2 1.5 0.9 0.5 0.4 10.3	3.5 0.4 0.1 Q Q 0.2 1.5	1.5 0.1 Q Q Q Q Q	0.4 Q Q Q Q Q Q	1.1 Q Q Q Q Q Q	1.9 0.3 Q Q Q 0.2 1.2	0.1 Q Q Q Q Q	1.8 0.3 Q Q Q 0.2 1.1	1.6 Q Q Q Q Q Q.0.8	1.2 Q Q Q Q Q Q	0.4 Q Q Q Q Q Q	11.3 26.4 34.4 37.6 49.1 41.3 13.5
More than one may apply) No Yes Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity Portable Heater	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8	30.8 3.6 1.7 0.9 0.6 0.6 11.8 7.6	27.2 3.2 1.5 0.9 0.5 0.4 10.3 6.5	3.5 0.4 0.1 Q Q 0.2 1.5 1.1	1.5 0.1 Q Q Q Q 0.8 0.6	0.4 Q Q Q Q Q Q 0.2 0.2	1.1 Q Q Q Q Q Q 0.6 0.4	1.9 0.3 Q Q Q 0.2 1.2 0.9	0.1 Q Q Q Q Q Q	1.8 0.3 Q Q Q 0.2 1.1 0.9	1.6 Q Q Q Q Q Q 0.8 0.7	1.2 Q Q Q Q Q Q 0.6 0.4	0.4 Q Q Q Q Q Q 0.2 0.2	11.3 26.4 34.4 37.6 49.1 41.3 13.5 14.9
More than one may apply) No Yes Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity Portable Heater Built-in Electric Units	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0	30.8 3.6 1.7 0.9 0.6 0.6 11.8 7.6 3.6	27.2 3.2 1.5 0.9 0.5 0.4 10.3 6.5 3.3	3.5 0.4 0.1 Q Q 0.2 1.5 1.1 0.3	1.5 0.1 Q Q Q Q 0.8 0.6 0.2	0.4 Q Q Q Q Q 0.2 0.2 Q	1.1 Q Q Q Q Q 0.6 0.4 0.1	1.9 0.3 Q Q Q 0.2 1.2 0.9 0.1	0.1 Q Q Q Q Q Q Q	1.8 0.3 Q Q Q 0.2 1.1 0.9 0.1	1.6 Q Q Q Q Q 0.8 0.7 Q	1.2 Q Q Q Q Q 0.6 0.4 Q	0.4 Q Q Q Q Q 0.2 0.2 Q	11.3 26.4 34.4 37.6 49.1 41.3 13.5 14.9 29.7
More than one may apply) No Yes Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity Portable Heater Built-in Electric Units Other Equipment	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0 0.8	30.8 3.6 1.7 0.9 0.6 0.6 11.8 7.6 3.6 0.5	27.2 3.2 1.5 0.9 0.5 0.4 10.3 6.5 3.3 0.4	3.5 0.4 0.1 Q Q 0.2 1.5 1.1 0.3 Q	1.5 0.1 Q Q Q Q 0.8 0.6 0.2 Q	0.4 Q Q Q Q 0.2 0.2 Q	1.1 Q Q Q Q Q 0.6 0.4 0.1 Q	1.9 0.3 Q Q Q 0.2 1.2 0.9 0.1	0.1 Q Q Q Q Q Q Q Q Q Q	1.8 0.3 Q Q Q 0.2 1.1 0.9 0.1	1.6 Q Q Q Q 0.8 0.7 Q	1.2 Q Q Q Q 0.6 0.4 Q	0.4 Q Q Q Q Q 0.2 0.2 Q	11.3 26.4 34.4 37.6 49.1 41.3 13.5 14.9 29.7 37.0
More than one may apply) No Yes Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity Portable Heater Built-in Electric Units Other Equipment Fuel Oil	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0	30.8 3.6 1.7 0.9 0.6 0.6 11.8 7.6 3.6	27.2 3.2 1.5 0.9 0.5 0.4 10.3 6.5 3.3	3.5 0.4 0.1 Q Q 0.2 1.5 1.1 0.3	1.5 0.1 Q Q Q Q 0.8 0.6 0.2	0.4 Q Q Q Q Q 0.2 0.2 Q	1.1 Q Q Q Q Q 0.6 0.4 0.1 Q	1.9 0.3 Q Q Q 0.2 1.2 0.9 0.1	0.1 Q Q Q Q Q Q Q	1.8 0.3 Q Q Q 0.2 1.1 0.9 0.1	1.6 Q Q Q Q Q 0.8 0.7 Q	1.2 Q Q Q Q Q 0.6 0.4 Q	0.4 Q Q Q Q Q 0.2 0.2 Q	11.3 26.4 34.4 37.6 49.1 41.3 13.5 14.9 29.7
More than one may apply) No Yes Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity Portable Heater Built-in Electric Units Other Equipment Fuel Oil Wood	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0 0.8 0.4	30.8 3.6 1.7 0.9 0.6 0.6 11.8 7.6 3.6 0.5 0.3	27.2 3.2 1.5 0.9 0.5 0.4 10.3 6.5 3.3 0.4 0.3	3.5 0.4 0.1 Q Q 0.2 1.5 1.1 0.3 Q	1.5 0.1 Q Q Q Q 0.8 0.6 0.2 Q	0.4 Q Q Q Q Q 0.2 0.2 Q Q	1.1 Q Q Q Q Q 0.6 0.4 0.1 Q	1.9 0.3 Q Q Q 0.2 1.2 0.9 0.1 0.1 Q	0.1 Q Q Q Q Q Q Q Q Q Q	1.8 0.3 Q Q Q 0.2 1.1 0.9 0.1 0.1 Q	1.6 Q Q Q Q Q 0.8 0.7 Q 0.1	1.2 Q Q Q Q Q 0.6 0.4 Q	0.4 Q Q Q Q Q 0.2 0.2 Q	11.3 26.4 34.4 37.6 49.1 41.3 13.5 14.9 29.7 37.0 47.5
More than one may apply) No Yes Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity Portable Heater Built-in Electric Units Other Equipment Fuel Oil	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0 0.8 0.4 19.0	30.8 3.6 1.7 0.9 0.6 0.6 11.8 7.6 3.6 0.5 0.3	27.2 3.2 1.5 0.9 0.5 0.4 10.3 6.5 3.3 0.4 0.3 16.0	3.5 0.4 0.1 Q Q 0.2 1.5 1.1 0.3 Q Q	1.5 0.1 Q Q Q 0.8 0.6 0.2 Q Q	0.4 Q Q Q Q 0.2 0.2 Q Q Q	1.1 Q Q Q Q Q 0.6 0.4 0.1 Q	1.9 0.3 Q Q Q 0.2 1.2 0.9 0.1 0.1 Q	0.1 Q Q Q Q Q Q Q Q	1.8 0.3 Q Q 0.2 1.1 0.9 0.1 0.1 Q	1.6 Q Q Q Q Q 0.8 0.7 Q 0.1 Q	1.2 Q Q Q Q Q 0.6 0.4 Q Q Q	0.4 Q Q Q Q Q 0.2 0.2 Q Q	11.3 26.4 34.4 37.6 49.1 41.3 13.5 14.9 29.7 37.0 47.5 17.5
More than one may apply) No Yes Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity Portable Heater Built-in Electric Units Other Equipment Fuel Oil Wood Fireplace Heating Stove Other Equipment	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0 0.8 0.4 19.0 15.9 3.4 0.2	30.8 3.6 1.7 0.9 0.6 0.6 11.8 7.6 3.6 0.5 0.3 17.5	27.2 3.2 1.5 0.9 0.5 0.4 10.3 6.5 3.3 0.4 0.3 16.0 13.3	3.5 0.4 0.1 Q Q 0.2 1.5 1.1 0.3 Q Q 1.5 1.3	1.5 0.1 Q Q Q 0.8 0.6 0.2 Q 0.5 0.5 0.1 Q	0.4 Q Q Q Q 0.2 0.2 Q Q Q 0.2 1.2	1.1 Q Q Q Q 0.6 0.4 0.1 Q Q	1.9 0.3 Q Q 0.2 1.2 0.9 0.1 0.1 Q 0.5 0.5 Q	0.1 Q Q Q Q Q Q Q Q Q Q Q	1.8 0.3 Q Q 0.2 1.1 0.9 0.1 0.1 Q 0.4 Q.2	1.6 Q Q Q Q 0.8 0.7 Q 0.1 Q 0.4 0.3	1.2 Q Q Q Q 0.6 0.4 Q Q Q.0.4 0.3	0.4 Q Q Q Q 0.2 0.2 Q Q Q	11.3 26.4 34.4 37.6 49.1 41.3 13.5 14.9 29.7 37.0 47.5 19.4
More than one may apply) No Yes Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity Portable Heater Built-in Electric Units Other Equipment Fuel Oil Wood Fireplace Heating Stove	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0 0.8 0.4 19.0 15.0 3.4 0.2	30.8 3.6 1.7 0.9 0.6 0.6 11.8 7.6 3.6 0.5 0.3 17.5 14.6 3.3 0.2	27.2 3.2 1.5 0.9 0.5 0.4 10.3 6.5 3.3 0.4 0.3 16.0 13.3 3.0 0.2	3.5 0.4 0.1 Q Q 0.2 1.5 1.1 0.3 Q Q 1.5 1.3	1.5 0.1 Q Q Q Q 0.8 0.6 0.2 Q Q 0.5 0.5	0.4 Q Q Q Q 0.2 0.2 Q Q Q 0.2 1.1 Q	1.1 Q Q Q Q Q 0.6 0.4 0.1 Q Q Q	1.9 0.3 Q Q 0.2 1.2 0.9 0.1 Q 0.5 0.5 Q	0.1 Q Q Q Q Q Q Q Q Q Q Q Q Q	1.8 0.3 Q Q 0.2 1.1 0.9 0.1 Q 0.4 0.4 Q Q	1.6 Q Q Q Q 0.8 0.7 Q 0.1 Q 0.4 0.3 0.1 Q	1.2 Q Q Q Q 0.6 0.4 Q Q 0.4 0.3 0.1 Q	0.4 Q Q Q Q 0.2 Q Q Q Q Q Q	11.3 26.4 34.4 37.6 49.1 41.3 13.5 14.9 29.7 37.0 47.5 17.5 19.4 23.3 74.8 35.1
More than one may apply) No Yes Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity Portable Heater Built-in Electric Units Other Equipment Fuel Oil Wood Fireplace Heating Stove Other Equipment	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0 0.8 0.4 19.0 15.9 3.4 0.2	30.8 3.6 1.7 0.9 0.6 11.8 7.6 3.6 0.5 0.3 17.5 14.6 3.3	27.2 3.2 1.5 0.9 0.5 0.4 10.3 6.5 3.3 0.4 0.3 16.0 13.3 3.0	3.5 0.4 0.1 Q Q 0.2 1.5 1.1 0.3 Q Q 1.5 1.3 0.3 Q	1.5 0.1 Q Q Q 0.8 0.6 0.2 Q 0.5 0.5 0.1 Q	0.4 Q Q Q Q 0.2 Q Q Q 0.2 Q Q 0.2 Q	1.1 Q Q Q Q 0.6 0.4 0.1 Q Q	1.9 0.3 Q Q 0.2 1.2 0.9 0.1 0.1 Q 0.5 0.5 Q	0.1 Q Q Q Q Q Q Q Q Q Q Q	1.8 0.3 Q Q 0.2 1.1 0.9 0.1 0.1 Q 0.4 Q.2	1.6 Q Q Q Q Q 0.8 0.7 Q 0.1 Q 0.4 0.3 0.1 Q	1.2 Q Q Q Q 0.6 0.4 Q Q 0.4 0.3 0.1 Q	0.4 Q Q Q Q Q 0.2 Q Q Q Q Q	11.3 26.4 34.4 37.6 49.1 41.3 13.5 14.9 29.7 37.0 47.5 19.4 23.3 74.8

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

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

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 1993 Residential Energy Consumption Survey. (For specific titles of forms, see Appendix D.)

Table 3.9b. Space Heating by Type and Ownership of Housing Unit, Percent of Households, 1993 (Continued)

					т	ype and	Ownersh	nip of Ho	using Ur	nit				
							Multif	family						
		Single-Family	ily	Two	to Four	Jnits	Five	or More	Units	M	obile Hor	me		
Space Heating Characteristics	Total	Total	Own	Rent	Total	Own	Rent	Total	Own	Rent	Total	Own	Rent	RSE
RSE Column Factor:	0.4	0.4	0.5	0.9	1.1	1.8	1.1	0.9	2.3	1.0	1.1	1.3	2.1	Row Factors
Secondary Heating Fuel and Equipment (more than one may apply) No	62.9 37.1 4.2 1.9 1.0 0.6 0.9 15.1 10.1 4.1 0.8 0.4	53.9 46.1 5.4 2.5 1.4 0.8 0.9 17.7 11.4 5.4 0.5 26.2	51.1 48.9 5.7 2.8 1.5 0.9 0.8 18.5 11.7 5.9 0.6 0.6 28.7	68.0 32.0 3.8 1.2 Q Q 1.7 13.7 9.8 3.1 Q	81.0 19.0 1.5 Q Q Q 10.2 7.8 2.1 Q	73.4 26.6 Q Q Q Q 13.5 11.6 Q Q	82.8 17.2 Q Q Q Q 9.4 6.9 2.1 Q Q	88.2 11.8 2.0 Q Q 1.1 7.2 5.6 0.9 0.8 Q	90.4 9.6 Q Q Q Q Q Q Q Q	88.0 12.0 2.2 Q Q 1.2 7.5 5.9 1.0 0.8 Q 3.0	70.6 29.4 Q Q Q Q 14.8 11.9 Q 2.4 Q	71.9 28.1 Q Q Q Q 13.5 10.2 Q Q	65.7 34.3 Q Q Q Q 19.7 18.2 Q Q	3.3 9.9 25.2 32.2 35.1 46.5 39.8 12.8 14.1 29.2 36.8 44.8 17.8
Fireplace	16.5 3.6 0.2 1.3 2.7 0.4	21.9 4.9 0.3 1.6 3.3 0.4	23.9 5.3 0.3 1.7 3.2 0.4	11.6 2.5 Q 1.3 3.4 Q	5.9 0.9 Q Q Q	9.0 Q Q Q Q	99999	3.2 Q Q Q Q	99999	3.0 Q Q Q Q	5.5 1.9 Q 2.9 4.6 Q	6.9 2.2 Q 2.8 3.2 Q	99999	18.2 23.2 70.5 34.8 29.9 60.9

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 1993 Residential Energy Consumption Survey. (For specific titles of forms, see Appendix D.)

Table 3.10. Space Heating by Average Floorspace, U.S. Households, 1993

			t per ng Unit	Ave	rage Heated Househol		Avera Feet				
Space Heating Characteristics	Total House- holds (mil- lions)	Total	Heated	All House- holds	Single- Family	Multi- family	Mobile Home	Single- Family	Multi- family	Mobile Home	
RSE Column Factor:	1.3	0.7	0.6	0.7	0.8	1.5	2.0	0.6	1.3	1.2	RSE Row Factors
Total	96.6	1,875	1,630	624	698	432	354	1,947	917	938	1.8
Main Heating Fuel and	55.0	.,570	.,500	321	300	102	30 1	.,5-11	311	555	1.5
Equipment	E0.0	1.050	1 711	640	710	425	204	1 000	020	072	2.5
Natural Gas Central Warm-Air Furnace	50.8 34.9	1,959 2,160	1,714 1,884	649 695	712 735	435 479	394 407	1,992 2,072	939 1,012	972 995	2.5 2.9
For One Housing Unit	34.9 34.1	2,160	1,884	701	735 735	479 496	407 407	2,072	1,012	995 995	2.9
For Two or More Units	0.9	973	917	421	733 Q	409	Q Q	2,073 Q	896	995 Q	13.1
Steam or Hot-Water System	8.7	1,745	1,538	650	852	453	Q	2,391	934	Q	5.4
For One Housing Unit	5.1	2,397	2,066	768	858	522	ã	2,398	1,298	ã	6.4
For Two or More Units	3.6	827	794	416	Q	415	Q	Q	783	Q	4.4
Floor, Wall, or											
Pipeless Furnace	4.3	1,220	1,093	424	471	319	Q	1,245	763	Q	7.1
Room Heater/Other	2.8	1,261	1,101	405	446	316	Q	1,219	840	Q	7.5
Electricity	25.3	1,597	1,409	578	666	442	378	1,803	881	999	2.9
Built-In Electric Units	7.0	1,346	1,174	525	607	429	351	1,569	812	1,025	7.0
Central Warm-Air Furnace	9.5	1,510	1,358	542	623	471	379	1,799	944	1,005	4.0
For One Housing Unit	9.3 7.5	1,521 2,039	1,367 1,770	545 708	623 764	474 464	379 474	1,799 2,019	950 926	1,005 1,175	3.9 6.5
Heat Pump Other	1.3	1,021	951	359	423	270	331	1,133	719	824	11.4
Fuel Oil	10.2	2,268	1,917	714	797	445	349	2,216	1,084	768	4.8
Steam or Hot-Water System	5.3	2,212	1,870	698	859	411	Q	2,373	1,047	Q	5.0
For One Housing Unit	3.5	2,828	2,333	857	867	690	Q	2,377	1,712	Q	6.4
For Two or More Units	1.8	1,027	981	377	Q	379	Q	Q	970	Q	6.5
Central Warm-Air Furnace	4.5	2,409	2,035	754	768	969	363	2,142	1,592	775	7.4
Other	0.4	1,415	1,206	454	481	Q	Q	1,390	Q	Q	15.4
Wood	3.1	2,097	1,843	589	627	Q	304	1,900	Q	1,144	8.4
Heating Stove	2.4	2,001	1,744	558	594	Q	329	1,792	Q	1,195	8.7
Other	0.7	2,416	2,170	692	726	Q	Q	2,228	Q	Q	14.7
LPG Air Europe	4.8	1,823	1,630	606	708 776	Q	319	1,904	Q Q	886 914	5.0
Central Warm-Air Furnace Room Heater	3.1 1.1	2,034 1,359	1,809 1,227	634 530	776 560	Q Q	332 Q	2,255 1,279	Q	914 Q	6.6 9.5
Other	0.6	1,359	1,476	530 578	657	Q	Q	1,279	Q	Q	19.9
Kerosene	1.0	1,107	935	363	412	Q	322	1,713	Q	868	11.0
Other	0.4	1,455	1,403	713	Q	521	Q	Q	785	Q	27.3
None	0.9	1,092									16.9
Amount of Heat Provided by Main Heating Equipment											
All or Almost All	87.3	1,852	1,619	628	705	439	368	1,947	926	947	1.8
About Three-Fourths	5.4	2,254	1,979	681	703 717	522	263	2,097	1,231	930	6.8
Closer to One-Half	3.1	2,088	1,811	644	718	356	289	2,038	880	1,056	8.3
No Main Equipment	0.9	1,092									16.9
Age of Main Heating Equipment											
Less than 2 Years	9.0	2,087	1,831	665	715	481	371	2,078	1,002	989	4.6
2 to 4 Years	10.6	2,134	1,833	664	722	472	340	2,034	1,075	970	4.4
5 to 9 Years	17.7	2,069	1,802	651	703	476	371	2,011	1,061	1,038	3.3
10 to 19 Years	21.6	1,997	1,744	641	690	467	371	1,989	966	959	3.1
20 Years or More Don't Know	21.5 15.3	1,946 1,122	1,679 1,038	716 428	794 489	469 394	340 334	1,940 1,484	952 846	798 801	3.6 4.0
	10.5										

Table 3.10. Space Heating by Average Floorspace, U.S. Households, 1993 (Continued)

Space Heating Characteristics RSE Column Factor:		Fee	e Square t per ng Unit	Ave	rage Heated Househol	Square Fee d Member	Avera Feet				
	Total House- holds (mil- lions)	Total	Heated	All House- holds	Single- Family	Multi- family	Mobile Home	Single- Family	Multi- family	Mobile Home	RSE
	1.3	0.7	0.6	0.7	0.8	1.5	2.0	0.6	1.3	1.2	Row
Secondary Heating Fuel and Equipment (more than one may apply) No	60.8 35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0 0.8 0.4	1,606 2,332 2,258 2,764 2,027 2,400 1,412 2,122 1,980 2,424 1,796 2,590 2,673	1,403 2,015 1,960 2,383 1,817 2,016 1,216 1,638 1,693 2,146 1,711 2,083 2,304	563 716 741 879 692 695 534 685 654 759 549 712 779	646 757 763 885 693 687 611 745 717 790 679 740	426 467 503 Q Q Q 311 424 436 420 327 Q 568	356 349 Q Q Q Q 347 332 Q 358 Q 443	1,751 2,176 2,082 2,475 1,828 2,007 1,461 2,047 1,916 2,246 2,121 2,155 2,391	896 1,045 1,000 Q Q Q G24 979 946 1,109 1,028 Q	904 1,020 Q Q Q Q Q 925 850 Q 1,095 Q	2.0 2.7 8.1 9.0 11.7 16.8 13.0 4.1 4.7 8.3 14.3 12.6
Wood Fireplace Heating Stove Other Equipment LPG Kerosene Other	19.0 15.9 3.4 0.2 1.2 2.6 0.4	2,673 2,686 2,640 3,130 1,937 2,043 2,458	2,304 2,306 2,326 2,535 1,719 1,756 2,312	779 778 796 898 608 611 872	795 795 816 898 685 666 949	568 555 728 Q Q Q Q	443 486 345 Q 253 276 Q	2,391 2,400 2,374 2,535 1,836 1,906 2,594	1,241 1,207 1,726 Q Q Q Q	1,374 1,411 1,267 Q 954 838 Q	3.7 4.1 8.3 30.0 10.0 7.1 22.3

^{-- =} Data not applicable.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 1993 Residential Energy Consumption Survey. (For specific titles of forms, see Appendix D.)

Table 3.11. Space Heating by Total Floorspace, U.S. Households, 1993

	Total Ho	useholds		Total Squa	re Footage		
			To	otal	Hea	ated	
Space Heating Characteristics	(millions)	(percent)	(billions)	(percent)	(billions)	(percent)	
RSE Column Factor:	0.9	0.9	1.1	1.0	1.0	1.0	RSE Row Factors
Total	96.6	100.0	181.2	100.0	157.5	100.0	1.1
Main Heating Fuel and Equipment							
Natural Gas	50.8	52.6	99.5	54.9	87.1	55.3	3.2
Central Warm-Air Furnace	34.9	36.2	75.5	41.6	65.8	41.8	3.7
For One Housing Unit	34.1	35.3	74.6	41.2	65.0	41.3	3.7
For Two or More Units	0.9	0.9	0.8	0.5	0.8	0.5	21.1
Steam or Hot-Water System	8.7	9.0	15.3	8.4	13.4	8.5	7.5
For One Housing Unit	5.1	5.3	12.3	6.8	10.6	6.7	9.0
For Two or More Units	3.6	3.8	3.0	1.7	2.9	1.8	9.3
Floor, Wall, or	4.0		5.0	0.0	4 7	0.0	
Pipeless Furnace	4.3	4.4	5.2	2.9	4.7	3.0	9.8
Room Heater/Other	2.8 25.3	2.9 26.2	3.6 40.5	2.0 22.3	3.1 35.7	2.0 22.7	11.9
Electricity Built-In Electric Units	7.0	7.2	9.4	5.2	8.2	5.2	9.0
Central Warm-Air Furnace	9.5	9.8	14.3	7.9	12.9	8.2	8.3
For One Housing Unit	9.3	9.6	14.2	7.8	12.7	8.1	8.5
Heat Pump	7.5	7.8	15.4	8.5	13.4	8.5	7.0
Other	1.3	1.4	1.3	0.7	1.2	0.8	13.6
Fuel Oil	10.2	10.6	23.2	12.8	19.6	12.5	6.8
Steam or Hot-Water System	5.3	5.5	11.8	6.5	10.0	6.3	8.9
For One Housing Unit	3.5	3.6	9.9	5.5	8.2	5.2	10.9
For Two or More Units	1.8	1.9	1.9	1.0	1.8	1.1	13.5
Central Warm-Air Furnace	4.5	4.7	10.8	6.0	9.2	5.8	8.8
Other	0.4	0.4	0.6	0.3	0.5	0.3	20.8
Wood	3.1	3.2	6.5	3.6	5.8	3.7	9.4
Heating Stove	2.4	2.5	4.8	2.6	4.2	2.7	10.3
Other	0.7	0.8	1.8	1.0	1.6	1.0	17.2
LPG	4.8	5.0	8.8	4.8	7.8	5.0	10.7
Central Warm-Air Furnace Room Heater	3.1 1.1	3.2 1.2	6.3 1.6	3.5 0.9	5.6 1.4	3.5 0.9	11.7
Other	0.6	0.6	0.9	0.5	0.8	0.5	26.3
Kerosene	1.0	1.0	1.1	0.6	0.8	0.6	17.6
Other	0.4	0.4	0.6	0.3	0.6	0.4	41.3
None	0.9	0.9	1.0	0.5			21.0
Amount of Heat Provided							
by Main Heating Equipment							
All or Almost All	87.3	90.3	161.7	89.2	141.3	89.7	1.3
About Three-Fourths	5.4	5.6	12.2	6.7	10.7	6.8	7.7
Closer to One-Half	3.1	3.2	6.4	3.5	5.6	3.5	10.1
No Main Equipment	0.9	0.9	1.0	0.5			21.0
Age of Main							
Heating Equipment							
Less than 2 Years	9.0	9.3	18.8	10.4	16.5	10.5	5.3
2 to 4 Years	10.6	11.0	22.7	12.5	19.5	12.4	5.6
5 to 9 Years	17.7	18.3	36.7	20.2	31.9	20.3	4.2
10 to 19 Years	21.6	22.4	43.1	23.8	37.7	23.9	3.1
20 Years or More	21.5	22.2	41.8	23.1	36.1	22.9	3.4
Don't Know	15.3	15.8	17.2	9.5	15.9	10.1	4.9
No Main Equipment	0.9	0.9	1.0	0.5			21.0

Table 3.11. Space Heating by Total Floorspace, U.S. Households, 1993 (Continued)

	Total Ho	ouseholds		Total Square Footage							
Space Heating Characteristics			Тс	otal	Hea	ated					
	(millions)	(percent)	(billions)	(percent)	(billions)	(percent)	505				
RSE Column Factor:	0.9	0.9	1.1	1.0	1.0	1.0	RSE Row Factors				
Secondary Heating Fuel and											
Equipment											
-quipinent							II.				
more than one may apply)											
	60.8	62.9	97.6	53.9	85.3	54.1	2.3				
more than one may apply)	60.8 35.9	62.9 37.1	97.6 83.6	53.9 46.1	85.3 72.3	54.1 45.9	2.3 3.3				
more than one may apply) No											
more than one may apply) NoYes	35.9	37.1	83.6	46.1	72.3	45.9	3.3 9.4				
more than one may apply) No Yes Natural Gas	35.9 4.1	37.1 4.2	83.6 9.2	46.1 5.1	72.3 8.0	45.9 5.1	3.3 9.4 12.7				
more than one may apply) No	35.9 4.1 1.8	37.1 4.2 1.9	83.6 9.2 5.0	46.1 5.1 2.8	72.3 8.0 4.3	45.9 5.1 2.7	3.3 9.4 12.7 15.9				
more than one may apply) No	35.9 4.1 1.8 1.0	37.1 4.2 1.9 1.0	83.6 9.2 5.0 1.9	46.1 5.1 2.8 1.1	72.3 8.0 4.3 1.7	45.9 5.1 2.7 1.1	3.3				
more than one may apply) No	35.9 4.1 1.8 1.0 0.6	37.1 4.2 1.9 1.0 0.6	83.6 9.2 5.0 1.9 1.4	46.1 5.1 2.8 1.1 0.8	72.3 8.0 4.3 1.7 1.2	45.9 5.1 2.7 1.1 0.8	3.3 9.4 12.7 15.9 23.8 21.1				
More than one may apply) No	35.9 4.1 1.8 1.0 0.6 0.9	37.1 4.2 1.9 1.0 0.6 0.9	83.6 9.2 5.0 1.9 1.4 1.2	46.1 5.1 2.8 1.1 0.8 0.7	72.3 8.0 4.3 1.7 1.2 1.1	45.9 5.1 2.7 1.1 0.8 0.7	3.3 9.4 12.7 15.9 23.8				
More than one may apply) No	35.9 4.1 1.8 1.0 0.6 0.9 14.6	37.1 4.2 1.9 1.0 0.6 0.9 15.1	83.6 9.2 5.0 1.9 1.4 1.2 31.0	46.1 5.1 2.8 1.1 0.8 0.7 17.1	72.3 8.0 4.3 1.7 1.2 1.1 26.9	45.9 5.1 2.7 1.1 0.8 0.7 17.1	3.3 9.4 12.7 15.9 23.8 21.1 5.0 5.6				
More than one may apply) No	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8	37.1 4.2 1.9 1.0 0.6 0.9 15.1 10.1	83.6 9.2 5.0 1.9 1.4 1.2 31.0	46.1 5.1 2.8 1.1 0.8 0.7 17.1 10.7	72.3 8.0 4.3 1.7 1.2 1.1 26.9 16.6	45.9 5.1 2.7 1.1 0.8 0.7 17.1 10.5	3.3 9.4 12.7 15.9 23.8 21.1 5.0 5.6 9.3				
More than one may apply) No Yes Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity Portable Heater Built-in Electric Units	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0	37.1 4.2 1.9 1.0 0.6 0.9 15.1 10.1 4.1	83.6 9.2 5.0 1.9 1.4 1.2 31.0 19.4 9.7	46.1 5.1 2.8 1.1 0.8 0.7 17.1 10.7 5.3	72.3 8.0 4.3 1.7 1.2 1.1 26.9 16.6 8.6	45.9 5.1 2.7 1.1 0.8 0.7 17.1 10.5 5.4	3.3 9.4 12.7 15.9 23.8 21.1 5.0 5.6 9.3 14.1				
More than one may apply) No	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0 0.8	37.1 4.2 1.9 1.0 0.6 0.9 15.1 4.1 0.8	83.6 9.2 5.0 1.9 1.4 1.2 31.0 19.4 9.7 1.4	46.1 5.1 2.8 1.1 0.8 0.7 17.1 10.7 5.3 0.8	72.3 8.0 4.3 1.7 1.2 1.1 26.9 16.6 8.6 1.4	45.9 5.1 2.7 1.1 0.8 0.7 17.1 10.5 5.4 0.9	3.3 9.4 12.7 15.9 23.8 21.1 5.0				
More than one may apply) No	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0 0.8 0.4	37.1 4.2 1.9 1.0 0.6 0.9 15.1 10.1 4.1 0.8 0.4	83.6 9.2 5.0 1.9 1.4 1.2 31.0 19.4 9.7 1.4 0.9	46.1 5.1 2.8 1.1 0.8 0.7 17.1 10.7 5.3 0.8 0.5	72.3 8.0 4.3 1.7 1.2 1.1 26.9 16.6 8.6 1.4 0.8	45.9 5.1 2.7 1.1 0.8 0.7 17.1 10.5 5.4 0.9	3.3 9.4 12.7 15.9 23.8 21.1 5.0 5.6 9.3 14.1 17.8 4.6				
More than one may apply) No	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0 0.8 0.4 19.0	37.1 4.2 1.9 1.0 0.6 0.9 15.1 10.1 4.1 0.8 0.4 19.7	83.6 9.2 5.0 1.9 1.4 1.2 31.0 19.4 9.7 1.4 0.9 50.8	46.1 5.1 2.8 1.1 0.8 0.7 17.1 10.7 5.3 0.8 0.5 28.0	72.3 8.0 4.3 1.7 1.2 1.1 26.9 16.6 8.6 1.4 0.8 43.8	45.9 5.1 2.7 1.1 0.8 0.7 17.1 10.5 5.4 0.9 0.5 27.8	3.3 9.4 12.7 15.9 23.8 21.1 5.0 5.6 9.3 14.1 17.8 4.6 4.9				
More than one may apply) No Yes Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity Portable Heater Built-in Electric Units Other Equipment Fuel Oil Wood Fireplace Heating Stove	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0 0.8 0.4 19.0 15.9	37.1 4.2 1.9 1.0 0.6 0.9 15.1 10.1 4.1 0.8 0.4 19.7 16.5	83.6 9.2 5.0 1.9 1.4 1.2 31.0 19.4 9.7 1.4 0.9 50.8 42.8	46.1 5.1 2.8 1.1 0.8 0.7 17.1 10.7 5.3 0.8 0.5 28.0 23.6	72.3 8.0 4.3 1.7 1.2 1.1 26.9 16.6 8.6 1.4 0.8 43.8 36.7	45.9 5.1 2.7 1.1 0.8 0.7 17.1 10.5 5.4 0.9 0.5 27.8 23.3	3.3 9.4 12.7 15.9 23.8 21.1 5.0 5.6 9.3 14.1 17.8 4.6 4.9				
More than one may apply) No Yes Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity Portable Heater Built-in Electric Units Other Equipment Fuel Oil Wood Fireplace Heating Stove Other Equipment	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0 0.8 0.4 19.0 15.9 3.4 0.2	37.1 4.2 1.9 1.0 0.6 0.9 15.1 10.1 4.1 0.8 0.4 19.7 16.5 3.6 0.2	83.6 9.2 5.0 1.9 1.4 1.2 31.0 19.4 9.7 1.4 0.9 50.8 42.8 9.1 0.5	46.1 5.1 2.8 1.1 0.8 0.7 17.1 10.7 5.3 0.8 0.5 28.0 23.6 5.0 0.3	72.3 8.0 4.3 1.7 1.2 1.1 26.9 16.6 8.6 1.4 0.8 43.8 36.7 8.0 0.4	45.9 5.1 2.7 1.1 0.8 0.7 17.1 10.5 5.4 0.9 0.5 27.8 23.3 5.1 0.3	3.3 9.4 12.7 15.9 23.8 21.1 5.6 9.3 14.1 17.8 4.6 4.8				
More than one may apply) No Yes Natural Gas Fireplace Room Heater Central Warm-Air Furnace Other Equipment Electricity Portable Heater Built-in Electric Units Other Equipment Fuel Oil Wood Fireplace Heating Stove	35.9 4.1 1.8 1.0 0.6 0.9 14.6 9.8 4.0 0.8 0.4 19.0 15.9 3.4	37.1 4.2 1.9 1.0 0.6 0.9 15.1 10.1 4.1 0.8 0.4 19.7 16.5 3.6	83.6 9.2 5.0 1.9 1.4 1.2 31.0 19.4 9.7 1.4 0.9 50.8 42.8 9.1	46.1 5.1 2.8 1.1 0.8 0.7 17.1 10.7 5.3 0.8 0.5 28.0 23.6 5.0	72.3 8.0 4.3 1.7 1.2 1.1 26.9 16.6 8.6 1.4 0.8 43.8 36.7 8.0	45.9 5.1 2.7 1.1 0.8 0.7 17.1 10.5 5.4 0.9 0.5 27.8 23.3 5.1	3.3 9.4 12.7 15.9 23.8 21.1 5.0 5.6 9.3 14.1				

⁻⁻⁼ Data not applicable.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 1993 Residential Energy Consumption Survey. (For specific titles of forms, see Appendix D.)

Table 3.12a. Space Heating by Family Income, Million U.S. Households, 1993

Space Heating Characteristics RSE Column Factor:				1993	Below Poverty Line		Eli- gible for					
	Total	Less than \$5,000	to \$9,999	\$10,000 to \$14,999	to	\$25,000 to \$34,999	\$35,000 to \$49,999	\$50,000 or More	100 Per- cent	125 Per- cent	Fed- eral Assist- ance ¹	RSE
	0.5	1.9					0.9	0.9		0.9	0.8	Row Factors
Total	96.6	4.1	10.6	11.1	18.4	14.1	17.5	21.0	14.4	19.4	30.7	3.5
Main Heating Fuel and Equipment												
Natural Gas	50.8	2.0	5.2	6.0	9.6	6.9	9.0	12.1	7.1	9.5	15.5	5.7
Central Warm-Air Furnace	34.9	0.8	2.7	3.6	6.2	5.3	6.8	9.6	3.4	4.9	8.4	7.1
For One Housing Unit	34.1	0.8	2.6	3.4	5.9	5.2	6.7	9.5	3.3	4.7	8.1	7.4
For Two or More Units	0.9	Q	Q	Q	0.3	Q	Q	Q	Q	Q	0.3	37.8
Steam or Hot-Water System	8.7	0.6	1.2	1.1	1.8	0.9	1.5	1.6	1.6	2.0	3.4	12.4
For One Housing Unit	5.1	0.2	0.5	0.5	1.1	0.5	0.9	1.3	0.7	1.0	1.6	17.1
For Two or More Units	3.6	0.3	0.7	0.6	0.7	0.4	0.5	0.3	8.0	1.0	1.8	19.5
Floor, Wall, or												
Pipeless Furnace	4.3	0.2	0.6	0.8	1.0	0.5	0.6	0.6	1.0	1.2	1.9	18.1
Room Heater/Other	2.8	0.3	0.7	0.6	0.6	0.2	0.2	0.2	1.1	1.4	1.7	18.5
Electricity	25.3	1.2	3.2	2.8	4.7	4.0	4.5	5.0	4.0	5.3	8.4	8.0
Built-In Electric Units	7.0	0.5	1.3	1.1	1.4	1.0	1.0	0.7	1.6	2.1	3.2	15.0
Central Warm-Air Furnace	9.5	0.4	0.9	1.0	2.0	1.6	1.9	1.6	1.4	1.8	2.8	13.1
For One Housing Unit Heat Pump	9.3 7.5	0.4 0.3	0.9 0.6	1.0 0.5	2.0	1.6 1.2	1.9 1.4	1.6 2.6	1.3 0.6	1.7 0.9	2.7 1.6	13.4
Other	1.3	0.3 Q	0.6	0.5	1.0 0.3	0.1	1.4 Q	2.6 Q	0.6	0.9	0.8	23.7
Fuel Oil	10.2	0.4	0.3	0.3	1.7	1.6	2.3	2.4	1.2	1.8	2.8	11.5
Steam or Hot-Water System	5.3	0.4	0.5	0.5	0.8	0.7	1.2	1.4	0.8	1.0	1.5	14.6
For One Housing Unit	3.5	Q	0.2	0.3	0.5	0.5	0.8	1.1	0.2	0.3	0.6	21.0
For Two or More Units	1.8	0.2	0.3	0.3	0.3	0.2	0.4	0.2	0.5	0.7	0.9	17.8
Central Warm-Air Furnace	4.5	Q.	0.3	0.4	0.9	0.9	1.0	1.0	0.4	0.6	1.1	16.7
Other	0.4	Q	Q	Q	Q	Q	Q	Q	Q	0.1	0.2	35.9
Wood	3.1	Q	0.3	0.4	0.5	0.4	0.7	0.7	0.5	0.8	1.1	16.7
Heating Stove	2.4	Q	0.3	0.4	0.3	0.3	0.6	0.4	0.5	0.7	1.0	18.2
Other	0.7	Q	Q	Q	0.2	Q	0.1	0.2	Q	Q	0.1	34.1
LPG	4.8	0.2	0.7	0.6	1.1	0.9	0.7	0.6	1.0	1.4	1.8	15.5
Central Warm-Air Furnace	3.1	Q	0.2	0.3	8.0	0.7	0.5	0.5	0.4	0.5	0.8	20.3
Room Heater	1.1	Q	0.3	0.2	0.3	0.2	Q	Q	0.4	0.6	0.7	26.4
Other	0.6	Q	Q	Q	Q	Q	Q	Q	0.2	0.2	0.3	29.7
Kerosene	1.0	Q	0.2	0.1	0.3	Q	Q	Q	0.3	0.4	0.6	25.1
Other None	0.4 0.9	Q Q	Q Q	Q 0.1	0.1 0.2	Q Q	Q 0.1	Q Q	Q 0.2	Q 0.2	Q 0.3	57.6 23.3
Amount of Heat Provided												
by Main Heating Equipment	07.0	0.7	0.0	40.0	40.0	40.7	45.7	10.5	10.0	47.0	00.4	0.0
All or Almost All	87.3	3.7	9.9	10.2	16.6	12.7	15.7	18.5	13.2	17.9	28.1	3.6
About Three-Fourths Closer to One-Half	5.4 3.1	0.2 0.2	0.3 0.3	0.3 0.4	0.9 0.6	0.9 0.3	1.0 0.6	1.7 0.6	0.4 0.6	0.6 0.7	1.2 1.1	15.7 17.9
No Main Equipment	0.9	Q.2	Q.3	0.4	0.0	Q.3	0.0	Q.0	0.0	0.7	0.3	23.3
Age of Main Heating Equipment												
Less than 2 Years	9.0	0.2	1.0	0.7	1.5	1.3	1.9	2.4	1.2	1.6	2.4	12.4
2 to 4 Years	10.6	0.2	0.8	1.0	1.7	1.8	2.2	2.4	1.2	1.6	2.4	11.2
5 to 9 Years	17.7	0.2	1.3	1.8	3.4	2.6	3.6	4.5	1.8	2.7	4.5	8.2
10 to 19 Years	21.6	0.8	2.3	2.1	3.8	3.3	4.1	5.2	2.8	4.2	6.4	7.2
20 Years or More	21.5	1.0	2.4	2.9	4.5	3.3	3.4	4.1	3.1	4.2	7.2	7.3
Don't Know	15.3	1.3	2.8	2.5	3.3	1.6	2.1	1.7	4.2	5.0	7.2	8.1
DOLL KLIOW	10.0	1.0	2.0	2.0			2.1		7.2	0.0		

Table 3.12b. Space Heating by Family Income, Percent of U.S. Households, 1993

Space Heating Characteristics RSE Column Factor:			Γ	1993		Below Poverty Line		Eli- gible for				
	Total	Less than \$5,000	\$5,000 to \$9,999	\$10,000 to \$14,999	\$15,000 to \$24,999	\$25,000 to \$34,999	\$35,000 to \$49,999	\$50,000 or More	100 Per- cent	125 Per- cent	Fed- eral Assist- ance ¹	_ RSE Row Factors
	0.5	1.9						0.9	1.1	0.9	0.8	
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
Main Heating Fuel and Equipment												
Natural Gas	52.6	48.6	48.8	54.1	52.3	49.1	51.8	57.7	49.5	49.1	50.4	4.6
Central Warm-Air Furnace	36.2	20.4	25.3	32.1	33.8	37.5	38.8	45.8	24.0	25.3	27.5	6.6
For One Housing Unit	35.3	20.1	24.1	30.8	32.1	36.9	38.3	45.4	23.1	24.5	26.4	6.8
For Two or More Units	0.9	Q	Q	Q	1.7	Q	Q	Q	Q	Q	1.1	37.4
Steam or Hot-Water System	9.0	14.4	11.4	10.2	9.7	6.7	8.4	7.7	10.8	10.4	11.2	11.9
For One Housing Unit	5.3	6.0	5.0	4.9	5.8	3.5	5.3	6.2	5.0	5.1	5.4	16.8
For Two or More Units	3.8	8.3	6.4	5.3	3.9	3.2	3.1	1.5	5.9	5.2	5.9	19.1
Floor, Wall, or												
Pipeless Furnace	4.4	5.7	5.7	6.8	5.4	3.2	3.5	3.1	6.7	6.3	6.1	17.8
Room Heater/Other	2.9	8.1	6.4	5.1	3.3	1.7	1.1	1.1	8.0	7.2	5.6	18.0
Electricity	26.2	29.1	29.8	25.4	25.8	28.3	25.7	23.8	27.6	27.2	27.3	7.1
Built-In Electric Units	7.2	11.1	12.0	9.6	7.8	7.4	5.9	3.4	10.8	10.8	10.5	14.7
Central Warm-Air Furnace	9.8	10.1	8.9	8.9	10.9	11.5	10.9	7.7	9.6	9.4	9.2	12.7
For One Housing Unit	9.6	9.2	8.6	8.9	10.8	11.2	10.8	7.6	9.1	9.0	8.9	13.1
Heat Pump	7.8 1.4	6.3	6.0 2.8	4.1 2.7	5.6 1.4	8.4 1.1	8.1 Q	12.3 Q	4.2 2.9	4.5 2.6	5.2 2.5	17.4 23.2
OtherFuel Oil	10.6	Q 9.8	2.6 8.7	8.3	9.5	11.7	12.9	પ 11.2	2.9 8.6	2.6 9.1	2.5 9.3	11.2
Steam or Hot-Water System	5.5	5.3	5.1	4.6	4.3	5.1	7.0	6.5	5.3	5.1	5.0	14.5
For One Housing Unit	3.6	Q.3	1.8	2.2	2.7	3.7	4.8	5.5	1.6	1.5	2.1	20.9
For Two or More Units	1.9	3.8	3.2	2.3	1.6	1.4	2.2	1.0	3.7	3.6	2.9	17.7
Central Warm-Air Furnace	4.7	Q.	3.2	3.2	4.8	6.1	5.5	4.7	2.6	3.2	3.6	16.5
Other	0.4	ã	Q	Q	Q	Q	Q	Q	Q	0.7	0.7	35.0
Wood	3.2	Q	2.7	3.8	2.7	2.7	4.2	3.2	3.5	4.0	3.7	16.4
Heating Stove	2.5	Q	2.4	3.6	1.8	1.9	3.4	2.0	3.3	3.6	3.2	17.8
Other	0.8	Q	Q	Q	0.9	Q	0.8	1.2	Q	Q	0.5	34.0
LPG	5.0	6.1	6.3	5.4	6.2	6.4	3.8	2.8	6.7	7.1	5.9	15.3
Central Warm-Air Furnace	3.2	Q	2.1	2.8	4.2	4.7	3.1	2.5	2.5	2.8	2.6	20.2
Room Heater	1.2	Q	3.1	1.8	1.4	1.2	Q	Q	3.1	3.1	2.4	26.0
Other	0.6	Q	Q	Q	Q	Q	Q	Q	1.1	1.2	0.9	29.7
Kerosene	1.0	Q	2.0	1.3	1.7	Q	Q	Q	2.2	2.0	1.8	24.6
OtherNone	0.4 0.9	Q Q	Q Q	Q 1.1	0.7 1.1	Q Q	Q 0.8	Q Q	Q 1.2	Q 1.0	Q 0.9	56.1 23.1
Amount of Heat Provided by Main Heating Equipment												
All or Almost All	90.3	90.9	93.7	91.9	90.3	90.2	89.8	88.1	91.9	92.2	91.7	1.2
About Three-Fourths	5.6	3.8	2.9	3.1	5.1	6.6	6.0	8.0	2.9	3.2	3.9	15.5
Closer to One-Half No Main Equipment	3.2 0.9	4.3 Q	3.0 Q	3.8 1.1	3.4 1.1	2.2 Q	3.5 0.8	3.0 Q	4.0 1.2	3.6 1.0	3.5 0.9	17.7 23.1
Age of Main	0.9	Q	Q	1.1	1.1	Q	0.0	Q	1.2	1.0	0.9	25.1
Heating Equipment												
Less than 2 Years	9.3	5.5	9.0	6.5	8.2	9.5	10.8	11.4	8.7	8.1	8.0	11.8
2 to 4 Years	11.0	5.6	7.3	9.0	9.1	13.1	12.6	13.8	7.4	8.2	8.4	10.6
5 to 9 Years	18.3	12.3	12.3	15.8	18.7	18.4	20.6	21.7	12.6	13.7	14.7	7.7
10 to 19 Years	22.4	18.9	22.0	19.2	20.5	23.5	23.6	24.7	19.4	21.4	21.0	6.4
20 Years or More	22.2	25.0	22.9	25.7	24.3	23.3	19.4	19.4	21.4	21.8	23.5	6.4
Don't Know	15.8	31.7	26.0	22.7	18.0	11.3	12.2	8.2	29.3	25.8	23.5	7.7
No Main Equipment	0.9	Q		1.1		Q	0.8		1.2	1.0	0.9	23.1

Table 3.12a. Space Heating by Family Income, Million U.S. Households, 1993 (Continued)

				1993	Family In	come				Poverty ne	Eli- gible for	
Space Heating Characteristics	Total	Less than \$5,000	\$5,000 to \$9,999	\$10,000 to \$14,999	\$15,000 to \$24,999	\$25,000 to \$34,999	\$35,000 to \$49,999	\$50,000 or More	100 Per- cent	125 Per- cent	Fed- eral Assist- ance ¹	RSE
RSE Column Factor:	0.5	1.9	1.3	1.1	0.9	1.0	0.9	0.9	1.1	0.9	0.8	RSE Row Factors
Secondary Heating Fuel and Equipment (more than one may apply)												
No	60.8	3.2	8.2	8.5	12.3	9.1	10.2	9.3	10.9	14.6	22.9	4.3
Yes	35.9	0.9	2.4	2.6	6.1	4.9	7.2	11.6	3.4	4.8	7.8	6.8
Natural Gas	4.1	Q	0.3	0.2	0.7	0.6	0.9	1.2	0.4	0.5	0.8	18.5
Fireplace	1.8	Q	Q	Q	0.3	0.3	0.4	0.8	Q	Q	0.1	23.6
Room Heater	1.0	Q	Q	Q	0.2	0.2	0.2	0.2	Q	0.2	0.2	32.7
Central Warm-Air Furnace	0.6	Q	Q	Q	Q	Q	0.2	0.2	Q	Q	Q	36.5
Other Equipment	0.9	Q	0.1	Q _	0.2	Q	0.2	Q	0.2	0.2	0.4	30.8
Electricity	14.6	0.5	1.3	1.5	2.9	1.9	2.5	3.9	1.9	2.5	4.0	8.9
Portable Heater	9.8	0.4	1.0	1.1	2.2	1.3	1.5	2.3	1.4	1.9	3.1	10.3
Built-in Electric Units	4.0	Q	0.2	0.3	0.7	0.5	0.9	1.3	0.3	0.4	0.6	20.0
Other Equipment	0.8	Q	0.1	Q	0.1	Q	Q	0.2	0.2	0.3	0.3	22.9
Fuel Oil	0.4	Q	Q	Q	Q	Q	Q	0.1	Q	Q	0.1	42.2
Wood	19.0	0.2	0.5	0.7	2.5	2.5	4.2	8.4	0.8	1.2	2.2	11.5
Fireplace	15.9	0.2	0.4	0.4	1.9	2.0	3.5	7.6	0.6	0.8	1.6	13.4
Heating Stove	3.4	Q	Q	0.4	0.6	0.5	0.9	1.0	0.2	0.4	0.7	17.4
Other Equipment	0.2	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	57.9
LPG	1.2	Q	0.2	Q	0.2	0.2	0.2	0.3	0.2	0.3	0.4	27.4
Kerosene	2.6	Q	0.3	0.3	0.6	0.4	0.5	0.5	0.4	0.6	0.9	22.2
Other	0.4	Q	Q	Q	Q	Q	Q	0.1	Q	Q	Q	44.1

¹ Below 150 percent of poverty line or 60 percent of median State income.
Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled. Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 1993 Residential Energy Consumption Survey. (For specific titles of forms, see Appendix D.)

Table 3.12b. Space Heating by Family Income, Percent of U.S. Households, 1993 (Continued)

				1993		Poverty ne	Eli- gible for					
Space Heating Characteristics	Total	Less than \$5,000	\$5,000 to \$9,999	\$10,000 to \$14,999	\$15,000 to \$24,999	\$25,000 to \$34,999	\$35,000 to \$49,999	\$50,000 or More	100 Per- cent	125 Per- cent	Fed- eral Assist- ance ¹	RSE
RSE Column Factor:	0.5	1.9	1.3	1.1	0.9	1.1	0.9	0.9	1.1	0.9	0.8	RSE Row Factors
Secondary Heating Fuel and												
Equipment more than one may apply)												
No	62.9	77.8	77.1	76.3	66.7	65.0	58.7	44.5	76.1	75.3	74.5	2.6
Yes	37.1	22.2	22.9	23.7	33.3	35.0	41.3	55.5	23.9	24.7	25.5	6.0
Natural Gas	4.2	Q	3.2	2.1	3.7	4.2	5.4	5.7	2.8	2.6	2.6	18.3
Fireplace	1.9	Q	Q	Q	1.6	1.9	2.2	3.8	Q	Q	0.5	23.2
Room Heater	1.0	Q	Q	Q	0.8	1.4	1.1	0.8	Q	1.0	0.8	32.6
Central Warm-Air Furnace	0.6	Q	Q	Q	Q	Q	1.2	0.8	Q	Q	Q	36.4
Other Equipment	0.9	Q	1.3	Q	1.2	Q	1.1	Q	1.3	1.1	1.2	30.6
Electricity	15.1	13.2	11.9	13.5	16.0	13.9	14.3	18.7	13.1	13.0	13.2	8.4
Portable Heater	10.1	10.0	9.3	9.5	12.0	9.4	8.6	11.1	9.6	9.6	10.0	9.8
Built-in Electric Units	4.1	Q	1.7	2.7	4.0	3.7	5.2	6.1	2.4	2.3	2.1	19.9
Other Equipment	8.0	Q	1.0	Q	0.7	Q	Q	1.0	1.6	1.3	1.1	23.2
Fuel Oil	0.4	Q	Q	Q	Q	Q	Q	0.5	Q	Q	0.4	41.4
Wood	19.7	5.2	4.8	6.4	13.5	17.5	24.3	40.1	5.4	6.2	7.3	10.9
Fireplace	16.5	3.9	3.8	3.4	10.4	14.4	20.0	36.1	4.2	4.1	5.3	12.8
Heating Stove	3.6	Q	Q	3.2	3.1	3.8	4.9	4.6	1.3	2.2	2.1	17.3
Other Equipment	0.2	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	55.7
LPG	1.3	Q	1.6	Q	1.1	1.8	1.2	1.4	1.6	1.7	1.3	27.2
Kerosene	2.7	Q	2.6	2.7	3.3	2.6	2.7	2.4	2.9	3.1	3.0	22.1
Other	0.4	Q	Q	Q	Q	Q	Q	0.6	Q	Q	Q	43.5

¹ Below 150 percent of poverty line or 60 percent of median State income. Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled. Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 1993 Residential Energy Consumption Survey. (For specific titles of forms, see Appendix D.)