

## 2001 Housing Characteristics Tables

### Appliances Tables

(Million U.S. Households; 60 pages, 240 kb)

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These data are from the 2001 Residential Energy Consumption Survey (RECS) which provides information on the use of energy in residential housing units in the United States. The RECS is a national statistical survey that collects energy-related data for occupied primary housing units. RECS was first conducted in 1978; the eleventh and most recent survey was conducted in 2001. In the 2001 RECS, data were collected from a sample of 4,822 households in housing units statistically selected to represent the 107.0 million housing units in the United States. The RECS data are available for the four Census regions, the nine Census divisions, and for the four most populous States--California, Florida, New York, and Texas.

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**Contact:** Stephanie J. Battles, Survey Manager (stephanie.battles@eia.doe.gov)

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

**Table HC5-1a. Appliances by Climate Zone,  
Million U.S. Households, 2001**

Appliance Types and Characteristics	Total	Climate Zone <sup>1</sup>					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.9	1.1	1.1	1.2	1.1	
<b>Total</b> .....	107.0	9.2	28.6	24.0	21.0	24.1	7.8
<b>Kitchen Appliances</b>							
<b>Cooking Appliances</b>							
<b>Oven</b> .....	101.7	9.1	27.9	23.1	19.4	22.2	7.8
1 .....	95.2	8.7	26.0	21.6	17.7	21.2	7.9
2 or More .....	6.5	0.4	1.9	1.5	1.7	1.0	14.7
<b>Most Used Oven</b> .....	101.7	9.1	27.9	23.1	19.4	22.2	7.8
Electric .....	63.0	6.4	16.4	13.3	11.3	15.5	8.1
Natural Gas .....	34.3	1.8	10.4	8.9	7.4	5.9	9.5
LPG .....	4.4	1.0	1.0	0.9	0.7	0.8	24.1
Other .....	Q	Q	Q	Q	Q	Q	NF
<b>Most Used Self-Cleaning Oven</b> ...	48.2	4.7	15.1	10.8	8.1	9.6	7.8
Continuous .....	11.2	0.9	3.7	2.3	1.8	2.5	15.7
Manual Start .....	37.0	3.7	11.4	8.5	6.3	7.1	8.5
<b>Range</b> .....	105.7	9.2	28.3	23.8	20.6	23.8	7.8
1 .....	100.5	8.9	26.7	22.6	19.3	23.0	7.9
2 or More .....	5.2	0.3	1.5	1.2	1.3	0.7	15.8
<b>Most Used Range</b> .....	105.7	9.2	28.3	23.8	20.6	23.8	7.8
Electric .....	64.2	6.4	16.3	13.6	11.7	16.3	8.3
Natural Gas .....	36.7	1.8	10.9	9.3	8.1	6.7	9.5
LPG .....	4.7	1.0	1.1	1.0	0.8	0.8	23.7
Other .....	Q	Q	Q	Q	Q	Q	NF
<b>Built-in/Stove-top Grill</b> .....	2.9	Q	0.5	0.6	0.6	1.0	22.3
Electric .....	1.8	Q	0.4	0.3	0.3	0.6	28.0
Natural Gas .....	1.0	Q	Q	0.3	0.2	0.3	31.7
LPG .....	Q	Q	Q	Q	Q	Q	NF
Other .....	Q	Q	Q	Q	Q	Q	NF
<b>Refrigerators and Freezers</b>							
<b>Refrigerators</b> .....	106.8	9.2	28.6	24.0	20.9	24.1	7.8
1 .....	88.7	7.3	23.3	20.0	17.6	20.6	8.0
2 or More .....	18.1	2.0	5.3	4.1	3.3	3.5	9.9
<b>Most-Used Refrigerator</b>							
Defrost Method							
Frost-Free .....	96.9	8.0	25.7	21.8	19.1	22.3	7.8
Manual .....	9.9	1.3	2.9	2.2	1.8	1.7	14.5
<b>Type of Refrigerator</b>							
2-Doors (top and bottom) .....	73.0	6.8	20.5	16.6	13.3	15.8	7.1
2-Doors (side-by-side) .....	27.1	1.8	6.5	5.7	6.4	6.7	9.3
Regular (single door) .....	5.7	0.5	1.4	1.5	1.0	1.3	15.3
Half-Size/Other .....	1.0	Q	Q	0.2	0.3	0.3	28.5

See footnotes at end of table.

**Table HC5-1a. Appliances by Climate Zone,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total	Climate Zone <sup>1</sup>					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.9	1.1	1.1	1.2	1.1	
<b>Age of Refrigerator</b>							
Less than 2 Years .....	14.5	0.9	4.0	3.0	3.0	3.6	10.5
2 to 4 Years .....	20.7	1.6	5.0	5.3	4.1	4.6	10.1
5 to 9 Years .....	31.1	2.7	7.8	6.8	6.6	7.3	7.4
10 to 19 Years .....	26.7	2.7	7.6	5.8	5.2	5.4	10.6
20 Years or More .....	7.1	0.9	2.2	1.6	0.9	1.5	15.6
Don't Know .....	6.7	0.5	2.0	1.5	1.1	1.6	16.1
<b>Size of Refrigerator</b>							
Very Small (Less than 11 cf) .....	0.6	Q	Q	Q	Q	Q	59.8
Small (11-14 cf) .....	5.7	0.7	1.6	1.2	0.8	1.3	17.7
Medium (15-18 cf) .....	52.2	4.6	14.2	12.6	10.0	10.8	8.2
Large (19-22 cf) .....	43.0	3.5	11.5	9.0	8.9	10.2	7.8
Very Large (23 or More cf) .....	5.3	0.3	1.1	1.1	1.1	1.6	18.3
<b>Through-the-Door Ice/Water Service</b>							
Yes .....	22.1	1.2	5.1	4.4	5.4	5.9	9.6
No .....	84.9	8.0	23.6	19.6	15.6	18.1	7.9
<b>Freezer (separate)</b>							
1 .....	34.2	4.3	9.3	7.6	6.2	6.8	11.2
2 or more .....	30.8	3.5	8.6	7.0	5.7	6.1	10.6
	3.4	0.8	0.8	0.6	0.5	0.8	25.0
<b>Most-Used Freezer</b>							
Defrost Method							
Frost-Free .....	12.2	1.3	3.2	2.4	2.0	3.3	13.4
Manual .....	22.0	3.0	6.1	5.2	4.2	3.6	12.4
<b>Type of Freezer</b>							
Upright .....	17.8	1.9	5.4	3.8	3.4	3.4	10.5
Chest .....	16.5	2.4	4.0	3.8	2.8	3.5	14.9
<b>Age of Freezer</b>							
Less than 2 Years .....	3.1	0.3	0.9	0.6	0.6	0.8	20.3
2 to 4 Years .....	4.6	0.5	1.5	1.0	0.7	0.9	16.7
5 to 9 Years .....	6.8	0.9	1.7	1.6	1.2	1.4	15.0
10 to 19 Years .....	11.7	1.4	2.9	2.7	2.4	2.3	13.6
20 Years or More .....	7.3	1.2	2.2	1.5	1.2	1.2	17.2
Don't Know .....	0.6	Q	Q	Q	Q	Q	49.0
<b>Freezer Size</b>							
Very Small (Less than 11 cf) .....	2.5	0.4	0.7	0.5	0.5	0.4	21.4
Small (11-14 cf) .....	8.2	1.0	2.3	1.6	1.4	1.9	15.1
Medium (15-18 cf) .....	13.3	1.5	3.5	3.1	2.1	2.9	14.7
Large (19-22 cf) .....	8.7	1.3	2.3	2.0	1.6	1.4	13.7
Very Large (23 or More cf) .....	1.6	0.1	0.4	0.3	0.5	Q	27.8
<b>Other Kitchen Appliances</b>							
Dishwasher .....	56.7	4.7	14.7	12.3	11.2	13.7	7.4
Electric Coffee Makers .....	65.5	6.7	18.0	14.7	12.1	13.9	7.9
Electric Toaster Oven .....	36.1	1.9	8.2	9.1	7.6	9.3	8.8
Microwave Oven .....	92.1	8.8	24.8	20.0	17.9	20.7	7.1

See footnotes at end of table.

**Table HC5-1a. Appliances by Climate Zone,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total	Climate Zone <sup>1</sup>					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.9	1.1	1.1	1.2	1.1	
<b>Households With Electric</b>							
Air-Conditioning Equipment .....	82.9	5.4	20.9	20.2	14.2	22.1	8.1
Air Conditioners Not Used .....	2.1	Q	0.4	0.3	0.8	0.4	22.7
<b>Households Using Electric</b>							
Air-Conditioning <sup>2</sup> .....	80.8	5.3	20.5	19.9	13.4	21.8	8.2
<b>Type of Electric Air-Conditioning Used</b>							
Central Air-Conditioning <sup>3</sup> .....	57.5	3.1	12.9	12.7	10.5	18.2	9.2
Without a Heat Pump .....	46.2	3.0	12.1	9.8	7.0	14.3	10.7
With a Heat Pump .....	11.3	Q	0.9	2.9	3.5	3.9	19.1
Room Air-Conditioning .....	23.3	2.2	7.6	7.2	2.9	3.6	11.3
1 Unit .....	12.8	1.4	4.5	3.4	1.9	1.5	13.5
2 Units .....	7.5	0.5	2.2	2.5	0.8	1.4	13.8
3 or More Units .....	3.0	0.2	0.8	1.2	0.2	0.7	20.1
<b>Entertainment</b>							
<b>Color Television Sets</b> .....							
1 .....	105.8	9.2	28.4	23.8	20.6	23.8	7.8
2 .....	29.3	3.3	7.8	6.3	5.2	6.8	9.7
3 .....	38.4	3.2	10.3	8.8	7.5	8.6	7.5
4 .....	23.3	1.7	6.3	5.2	4.8	5.3	8.8
5 .....	10.2	0.6	2.9	2.4	2.2	2.0	13.2
5 or More .....	4.5	0.3	1.2	1.1	0.8	1.2	14.8
<b>Large Screen Television Sets</b> .....							
1 .....	36.6	3.7	9.3	7.7	6.9	9.0	10.1
2 .....	27.3	2.8	7.1	5.6	5.1	6.7	10.4
3 .....	7.9	0.8	1.8	1.7	1.7	2.0	14.5
3 or More .....	1.4	Q	0.4	0.5	Q	Q	49.4
<b>Cable/Satellite Dish Antennas</b> .....							
Cable Network .....	82.2	7.1	22.6	19.0	15.9	17.6	7.1
Satellite Dish Antenna .....	68.3	5.4	18.9	16.5	13.1	14.4	7.5
Both .....	12.0	1.5	3.2	2.3	2.5	2.5	13.7
Both .....	1.9	0.3	0.5	0.3	0.3	0.6	26.4
<b>Video Cassette Recorders (VCRs) and DVD Players</b> .....							
1 .....	96.1	8.1	25.8	22.1	18.8	21.3	7.9
2 .....	52.3	4.7	13.2	12.2	10.4	11.9	8.1
3 .....	29.0	2.4	8.1	6.6	5.9	6.0	9.5
3 or More .....	14.7	0.9	4.6	3.3	2.6	3.4	12.2
<b>Stereo Equipment</b> .....							
Portable/Boom Box .....	80.3	7.0	22.0	17.4	16.2	17.7	6.5
Compact Stereo System .....	26.1	3.3	7.6	5.4	4.9	4.9	10.3
Component Stereo System .....	36.5	3.5	9.5	8.0	7.1	8.5	7.7
Other System .....	36.3	2.9	10.3	8.4	7.3	7.4	8.5
Other System .....	3.1	0.4	1.2	0.5	0.5	0.6	19.3
<b>Clothes Washers and Dryers</b>							
<b>Clothes Washer</b> .....							
Top loading .....	84.1	7.9	22.6	17.9	16.3	19.4	7.4
Front loading .....	81.6	7.6	21.8	17.2	15.9	19.1	7.6
Front loading .....	2.5	0.2	0.8	0.7	0.4	0.3	20.8

See footnotes at end of table.

**Table HC5-1a. Appliances by Climate Zone,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total	Climate Zone <sup>1</sup>					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.9	1.1	1.1	1.2	1.1	
<b>Clothes Dryer</b> .....	78.8	7.6	21.5	16.7	15.0	18.0	7.7
Electric .....	61.1	6.2	15.3	13.5	11.1	15.0	9.6
Natural Gas .....	16.9	1.2	6.1	3.0	3.8	2.9	12.8
LPG .....	0.8	0.2	0.2	Q	Q	Q	33.0
<b>Water Heater Equipment</b>							
<b>Water Heaters</b> .....	107.0	9.2	28.6	24.0	21.0	24.1	7.8
Electric .....	40.8	4.0	7.3	8.5	8.1	12.8	10.4
For One Housing Unit .....	37.7	3.7	6.6	7.7	7.8	12.0	11.5
For Two or More Units .....	3.1	Q	0.7	0.8	0.3	0.9	25.7
Natural Gas .....	58.0	3.7	19.1	12.4	12.2	10.6	8.9
For One Housing Unit .....	50.9	3.3	17.1	9.6	10.7	10.2	9.5
For Two or More Units .....	7.1	0.4	2.1	2.8	1.4	0.4	20.2
Fuel Oil .....	4.6	0.8	1.4	2.4	Q	Q	21.1
For One Housing Unit .....	3.0	0.7	1.2	1.2	Q	Q	25.6
For Two or More Units .....	1.6	Q	0.2	1.2	Q	Q	33.9
LPG .....	2.9	0.6	0.8	0.6	0.5	0.4	27.7
Other .....	0.5	Q	Q	Q	Q	Q	86.5
No Water Heater .....	Q	Q	Q	Q	Q	Q	NF
<b>Water Heater (for one housing unit)</b> .....	95.0	8.4	25.6	19.2	19.1	22.8	8.5
Age .....							
Less than 2 Years .....	11.4	0.9	3.3	2.3	2.2	2.7	12.3
2 to 4 Years .....	17.3	1.6	4.9	3.5	3.6	3.8	11.6
5 to 9 Years .....	25.3	2.4	7.0	4.7	5.0	6.1	10.1
10 to 19 Years .....	21.7	1.7	5.5	4.7	4.3	5.5	11.3
20 Years or More .....	7.4	0.9	1.8	1.3	1.4	2.1	15.8
Don't Know .....	9.4	0.4	2.4	2.0	2.3	2.3	14.3
No Separate Heater .....	2.5	0.6	0.7	0.8	0.3	0.3	22.8
No Water Heater .....	Q	Q	Q	Q	Q	Q	NF
Water Heaters for Two or More Units .....	11.9	0.9	3.0	4.9	1.9	1.3	15.5
Size .....							
Small .....	12.2	0.9	3.5	1.9	2.2	3.7	14.9
Medium .....	49.4	4.2	12.8	9.5	10.8	12.2	8.5
Large .....	25.6	2.2	7.2	6.0	5.0	5.2	11.6
Don't Know .....	3.8	0.4	1.3	0.8	0.4	0.9	24.8
No Separate Heater .....	2.5	0.6	0.7	0.8	0.3	0.3	22.8
No Water Heater .....	Q	Q	Q	Q	Q	Q	NF
Water Heaters for Two or More Units .....	11.9	0.9	3.0	4.9	1.9	1.3	15.5
<b>Heaters (other)</b> .....							
Hot Tub or Spa (heaters) .....	4.4	0.3	1.0	0.8	1.1	1.2	17.9
Electric .....	3.3	0.3	0.9	0.6	0.6	0.8	20.6
Natural Gas .....	0.9	Q	Q	Q	0.4	0.3	33.5
LPG/Other .....	Q	Q	Q	Q	Q	Q	NF
Portable Space (heaters) .....	13.4	1.3	3.7	3.0	2.8	2.5	11.4
Electric .....	11.9	1.2	3.4	2.5	2.5	2.3	12.1
Kerosene .....	1.8	0.2	0.4	0.6	0.3	Q	22.9

See footnotes at end of table.

**Table HC5-1a. Appliances by Climate Zone,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total	Climate Zone <sup>1</sup>					RSE Row Factors
		Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.9	1.1	1.1	1.2	1.1	
Swimming Pool (heaters) .....	1.2	Q	0.3	0.3	0.3	0.3	38.1
Natural Gas .....	0.8	Q	Q	Q	Q	Q	63.9
Electric/LPG/Other .....	0.4	Q	Q	Q	Q	Q	78.6
Waterbed Heaters .....	5.5	0.7	1.8	1.3	0.6	1.2	18.4
1 .....	4.8	0.7	1.6	1.0	0.5	1.1	20.2
2 or More .....	0.8	Q	0.3	Q	Q	Q	45.1
Used All Year .....	5.0	0.6	1.7	1.2	0.5	1.0	19.3
1 .....	4.3	0.5	1.4	1.0	0.4	1.0	20.9
2 or More .....	0.6	Q	0.2	Q	Q	Q	49.3
<b>Other Appliances</b>							
Automobile Block/Engine/ Battery Heater .....	2.3	1.0	0.9	Q	Q	Q	24.7
Ceiling Fans .....	69.6	5.9	18.1	14.2	12.3	19.1	8.0
1 .....	22.0	2.5	6.9	4.9	3.5	4.1	10.7
2 .....	15.1	1.5	4.5	3.0	2.8	3.4	12.1
3 or more .....	32.6	2.0	6.7	6.3	6.0	11.6	10.6
Electric Dehumidifier .....	12.1	2.6	5.4	3.1	0.6	0.4	16.0
Electric Humidifier .....	15.6	2.6	6.9	3.7	1.4	1.0	14.6
Evaporative/Swamp Cooler .....	2.7	Q	0.3	Q	0.6	1.5	26.6
Heated Aquarium .....	4.5	0.3	1.5	1.0	0.8	0.8	16.6
Outdoor Gas Light <sup>4</sup> .....	0.5	Q	Q	0.2	Q	Q	30.6
Pumps (Electric) .....	21.2	2.6	6.4	4.0	3.4	4.7	13.4
Rechargeable Tools/Appliances .....	47.7	5.0	13.9	10.3	8.6	9.9	8.9
Swimming Pool (with filters) .....	6.5	0.3	1.6	1.4	1.2	2.0	16.1
Well Water .....	13.8	2.3	4.8	2.6	1.7	2.4	18.6

<sup>1</sup> 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.

<sup>2</sup> The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (2.1 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

<sup>3</sup> The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

<sup>4</sup> Includes LPG and natural gas.

cf = Cubic feet.

NF = No applicable RSE row factor.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 2001 Residential Energy Consumption Survey.

**Table HC5-2a. Appliances by Year of Construction,  
Million U.S. Households, 2001**

Appliance Types and Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 2001 <sup>1</sup>	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.4	1.5	1.2	1.1	1.2	1.1	0.9	
<b>Total</b> .....	107.0	15.5	18.2	18.8	13.8	14.2	26.6	4.2
<b>Kitchen Appliances</b>								
<b>Cooking Appliances</b>								
<b>Oven</b> .....	101.7	14.3	17.2	17.8	12.9	13.7	25.9	4.2
1 .....	95.2	13.1	16.3	16.6	12.1	12.7	24.3	4.4
2 or More .....	6.5	1.2	0.9	1.1	0.7	1.0	1.6	14.8
<b>Most Used Oven</b> .....	101.7	14.3	17.2	17.8	12.9	13.7	25.9	4.2
Electric .....	63.0	10.7	12.9	12.9	7.9	7.6	11.1	5.2
Natural Gas .....	34.3	3.1	3.5	4.2	4.5	5.5	13.5	7.7
LPG .....	4.4	0.5	0.8	0.7	0.6	0.6	1.3	18.4
Other .....	Q	Q	Q	Q	Q	Q	Q	NF
<b>Most Used Self-Cleaning Oven</b>	48.2	8.7	9.5	8.1	5.7	6.2	9.9	6.0
Continuous .....	11.2	1.7	2.1	2.2	1.0	1.6	2.6	12.8
Manual Start .....	37.0	7.0	7.4	5.9	4.7	4.6	7.3	6.8
<b>Range</b> .....	105.7	15.4	18.0	18.4	13.5	14.0	26.5	4.2
1 .....	100.5	14.6	17.3	17.6	12.9	13.1	25.0	4.4
2 or More .....	5.2	0.8	0.7	0.8	0.6	0.9	1.4	15.8
<b>Most Used Range</b> .....	105.7	15.4	18.0	18.4	13.5	14.0	26.5	4.2
Electric .....	64.2	10.9	13.2	13.2	8.2	7.6	11.1	5.1
Natural Gas .....	36.7	3.9	3.9	4.4	4.8	5.8	13.9	7.5
LPG .....	4.7	0.5	0.9	0.8	0.6	0.6	1.4	18.0
Other .....	Q	Q	Q	Q	Q	Q	Q	NF
<b>Built-in/Stove-top Grill</b> .....	2.9	0.7	0.5	0.4	0.3	0.4	0.7	23.0
Electric .....	1.8	0.4	0.3	0.3	0.3	Q	Q	27.2
Natural Gas .....	1.0	Q	Q	Q	Q	0.2	0.4	30.6
LPG .....	Q	Q	Q	Q	Q	Q	Q	NF
Other .....	Q	Q	Q	Q	Q	Q	Q	NF
<b>Refrigerators and Freezers</b>								
<b>Refrigerators</b> .....	106.8	15.5	18.2	18.7	13.8	14.1	26.5	4.2
1 .....	88.7	12.0	15.6	15.5	11.7	11.4	22.4	4.5
2 or More .....	18.1	3.4	2.6	3.2	2.0	2.8	4.1	8.1
<b>Most-Used Refrigerator</b>								
Defrost Method								
Frost-Free .....	96.9	14.8	16.8	17.1	12.1	12.9	23.2	4.4
Manual .....	9.9	0.6	1.4	1.7	1.7	1.2	3.3	12.6
<b>Type of Refrigerator</b>								
2-Doors (top and bottom) .....	73.0	8.8	12.5	13.0	9.8	9.6	19.4	4.5
2-Doors (side-by-side) .....	27.1	6.1	5.0	4.8	3.2	3.4	4.5	7.7
Regular (single door) .....	5.7	0.4	0.7	0.9	0.6	1.0	2.1	16.0
Half-Size/Other .....	1.0	Q	Q	Q	Q	Q	0.5	28.5

See footnotes at end of table.

**Table HC5-2a. Appliances by Year of Construction,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 2001 <sup>1</sup>	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	<b>0.4</b>	<b>1.5</b>	<b>1.2</b>	<b>1.1</b>	<b>1.2</b>	<b>1.1</b>	<b>0.9</b>	
<b>Age of Refrigerator</b>								
Less than 2 Years .....	14.5	3.2	1.8	2.5	2.0	2.0	3.0	9.1
2 to 4 Years .....	20.7	4.5	2.9	3.2	2.8	2.4	4.8	9.0
5 to 9 Years .....	31.1	5.7	4.7	4.8	3.4	4.9	7.5	6.2
10 to 19 Years .....	26.7	1.7	6.8	4.4	3.6	3.2	7.0	7.7
20 Years or More .....	7.1	Q	0.5	2.1	1.2	1.0	2.2	14.3
Don't Know .....	6.7	Q	1.6	1.6	0.8	0.6	1.9	15.3
<b>Size of Refrigerator</b>								
Very Small (Less than 11 cf) ...	0.6	Q	Q	Q	Q	Q	0.4	40.8
Small (11-14 cf) .....	5.7	0.5	1.1	0.9	0.7	0.7	1.7	16.1
Medium (15-18 cf) .....	52.2	5.6	9.0	9.9	7.1	6.5	14.2	5.5
Large (19-22 cf) .....	43.0	7.7	7.2	7.3	5.3	6.1	9.4	5.9
Very Large (23 or More cf) .....	5.3	1.6	0.8	0.6	0.7	0.7	0.9	17.9
<b>Through-the-Door Ice/Water Service</b>								
Yes .....	22.1	6.0	4.0	3.6	2.5	2.6	3.2	8.3
No .....	84.9	9.5	14.2	15.1	11.2	11.5	23.4	4.5
<b>Freezer (separate)</b>								
1 .....	34.2	4.7	5.1	5.7	4.7	5.0	9.0	6.6
2 or more .....	30.8	4.4	4.7	5.4	4.0	4.5	7.9	6.8
	3.4	0.3	0.5	0.4	0.7	0.5	1.1	18.3
<b>Most-Used Freezer</b>								
Defrost Method								
Frost-Free .....	12.2	1.8	1.9	2.1	1.8	1.7	3.0	10.1
Manual .....	22.0	2.9	3.2	3.7	2.9	3.3	6.0	8.2
<b>Type of Freezer</b>								
Upright .....	17.8	2.6	2.7	3.3	2.7	2.5	3.8	8.8
Chest .....	16.5	2.1	2.4	2.5	1.9	2.4	5.2	9.1
<b>Age of Freezer</b>								
Less than 2 Years .....	3.1	0.6	0.5	0.4	0.4	0.5	0.8	18.2
2 to 4 Years .....	4.6	1.0	0.7	0.9	0.6	0.5	0.9	15.7
5 to 9 Years .....	6.8	1.1	1.0	1.0	0.8	1.1	1.8	13.1
10 to 19 Years .....	11.7	1.4	1.9	2.2	1.6	1.7	3.0	10.6
20 Years or More .....	7.3	0.6	1.0	1.1	1.2	1.1	2.4	13.4
Don't Know .....	0.6	Q	Q	Q	Q	Q	Q	39.8
<b>Freezer Size</b>								
Very Small (Less than 11 cf) .....	2.5	0.4	0.5	0.4	0.3	0.4	0.5	20.7
Small (11-14 cf) .....	8.2	1.1	1.2	1.4	0.9	1.3	2.3	12.7
Medium (15-18 cf) .....	13.3	1.7	2.1	2.1	1.9	2.0	3.4	10.4
Large (19-22 cf) .....	8.7	1.3	1.1	1.6	1.3	1.0	2.3	12.1
Very Large (23 or More cf) .....	1.6	Q	0.2	0.2	0.3	0.3	0.4	27.8
<b>Other Kitchen Appliances</b>								
Dishwasher .....	56.7	12.3	12.8	10.4	7.0	6.2	8.1	5.7
Electric Coffee Makers .....	65.5	10.6	11.2	11.0	8.4	8.8	15.5	4.9
Electric Toaster Oven .....	36.1	5.3	7.0	6.1	4.9	4.4	8.4	6.9
Microwave Oven .....	92.1	14.4	15.9	16.5	11.7	12.2	21.4	4.2

See footnotes at end of table.



**Table HC5-2a. Appliances by Year of Construction,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 2001 <sup>1</sup>	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	<b>0.4</b>	<b>1.5</b>	<b>1.2</b>	<b>1.1</b>	<b>1.2</b>	<b>1.1</b>	<b>0.9</b>	
<b>Households With Electric</b>								
<b>Air-Conditioning Equipment</b> .....	82.9	13.6	16.0	14.7	10.4	10.5	17.6	4.7
Air Conditioners Not Used .....	2.1	Q	0.3	0.5	0.3	0.4	0.5	27.1
<b>Households Using Electric</b>								
<b>Air-Conditioning</b> <sup>2</sup> .....	80.8	13.4	15.8	14.2	10.1	10.2	17.1	4.7
<b>Type of Electric Air-Conditioning Used</b>								
Central Air-Conditioning <sup>3</sup> .....	57.5	12.6	13.7	11.0	7.1	6.6	6.4	5.9
Without a Heat Pump .....	46.2	10.1	10.4	8.0	6.1	5.9	5.7	7.0
With a Heat Pump .....	11.3	2.5	3.3	3.0	1.0	0.8	0.6	15.2
Room Air-Conditioning .....	23.3	0.8	2.1	3.1	3.1	3.5	10.8	8.7
1 Unit .....	12.8	0.5	1.2	2.0	1.7	1.7	5.7	11.4
2 Units .....	7.5	0.2	0.8	1.0	0.8	1.3	3.3	13.8
3 or More Units .....	3.0	Q	Q	0.2	0.5	0.5	1.7	20.8
<b>Entertainment</b>								
<b>Color Television Sets</b> .....	105.8	15.3	17.9	18.6	13.6	14.1	26.3	4.2
1 .....	29.3	2.9	4.6	5.5	4.1	3.6	8.8	7.7
2 .....	38.4	5.4	6.3	7.2	4.5	5.3	9.7	5.6
3 .....	23.3	4.1	4.4	3.5	3.3	3.0	5.1	7.5
4 .....	10.2	2.1	1.9	1.7	1.2	1.4	1.9	12.0
5 or More .....	4.5	1.0	0.8	0.6	0.5	0.8	0.8	16.0
<b>Large Screen Television Sets</b> ....	36.6	6.4	6.5	6.2	4.7	4.8	8.1	6.9
1 .....	27.3	4.9	4.6	4.9	3.6	3.5	5.9	7.5
2 .....	7.9	1.3	1.7	1.2	1.0	1.1	1.7	13.9
3 or More .....	1.4	Q	0.2	Q	Q	Q	0.5	37.3
<b>Cable/Satellite Dish Antennas</b> ...	82.2	12.7	14.3	14.7	10.6	11.3	18.5	4.4
Cable Network .....	68.3	9.6	11.9	11.7	9.3	10.0	15.7	5.0
Satellite Dish Antenna .....	12.0	2.9	2.0	2.5	1.2	1.2	2.3	11.4
Both .....	1.9	0.3	0.4	0.5	Q	Q	0.4	25.0
<b>Video Cassette Recorders (VCRs) and DVD Players</b> .....	96.1	14.5	16.7	16.7	12.2	12.7	23.3	4.4
1 .....	52.3	6.8	8.6	9.1	6.7	7.1	14.0	5.6
2 .....	29.0	4.6	4.8	5.4	4.0	3.8	6.4	7.0
3 or More .....	14.7	3.1	3.3	2.2	1.5	1.9	2.9	9.8
<b>Stereo Equipment</b> .....	80.3	12.4	14.1	14.2	10.4	10.8	18.2	4.2
Portable/Boom Box .....	26.1	3.9	4.6	4.6	3.6	3.0	6.5	7.4
Compact Stereo System .....	36.5	5.7	6.9	5.8	4.4	5.1	8.7	6.3
Component Stereo System .....	36.3	6.5	6.5	6.5	4.5	4.6	7.7	6.7
Other System .....	3.1	0.4	0.2	0.7	0.5	0.5	0.8	20.4
<b>Clothes Washers and Dryers</b>								
<b>Clothes Washer</b> .....	84.1	13.8	14.8	13.9	10.1	11.8	19.7	4.5
Top loading .....	81.6	13.4	14.2	13.5	9.9	11.5	19.1	4.6
Front loading .....	2.5	0.4	0.6	0.4	0.2	0.3	0.6	22.4

See footnotes at end of table.

**Table HC5-2a. Appliances by Year of Construction,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 2001 <sup>1</sup>	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.4	1.5	1.2	1.1	1.2	1.1	0.9	
<b>Clothes Dryer</b> .....	78.8	13.6	14.2	13.0	9.5	10.7	17.9	4.7
Electric .....	61.1	10.8	11.8	10.9	7.1	7.6	12.8	5.5
Natural Gas .....	16.9	2.7	2.2	1.9	2.3	3.1	4.8	11.6
LPG .....	0.8	Q	Q	0.2	Q	Q	0.2	35.6
<b>Water Heater Equipment</b>								
<b>Water Heaters</b> .....	107.0	15.5	18.2	18.8	13.8	14.2	26.6	4.2
Electric .....	40.8	6.4	9.8	9.8	4.1	4.1	6.7	6.8
For One Housing Unit .....	37.7	5.9	9.1	8.8	3.8	3.8	6.3	7.2
For Two or More Units .....	3.1	Q	0.6	1.0	0.3	0.2	0.4	23.9
Natural Gas .....	58.0	8.3	7.7	7.8	8.6	8.8	16.9	6.4
For One Housing Unit .....	50.9	8.1	7.1	6.7	7.1	7.9	14.0	6.9
For Two or More Units .....	7.1	Q	0.6	1.2	1.4	0.9	2.9	16.2
Fuel Oil .....	4.6	0.2	0.3	0.5	0.7	0.9	2.0	20.2
For One Housing Unit .....	3.0	0.2	0.2	0.4	0.4	0.6	1.1	23.0
For Two or More Units .....	1.6	Q	Q	Q	0.3	0.3	0.9	32.1
LPG .....	2.9	0.5	0.4	0.7	0.2	0.3	0.8	23.2
Other .....	0.5	Q	Q	Q	Q	Q	Q	70.3
No Water Heater .....	Q	Q	Q	Q	Q	Q	Q	NF
<b>Water Heater (for one housing unit)</b> .....	95.0	14.7	16.9	16.6	11.7	12.8	22.4	4.6
Age .....								
Less than 2 Years .....	11.4	2.4	1.7	1.9	1.4	1.5	2.6	10.5
2 to 4 Years .....	17.3	4.2	2.2	2.7	1.8	2.4	4.0	9.5
5 to 9 Years .....	25.3	6.6	3.4	3.6	3.1	3.3	5.3	8.3
10 to 19 Years .....	21.7	1.3	6.9	3.2	2.8	2.8	4.6	8.7
20 Years or More .....	7.4	Q	0.6	2.5	1.0	1.1	2.1	14.5
Don't Know .....	9.4	Q	1.8	2.0	1.1	1.3	3.0	12.6
No Separate Heater .....	2.5	Q	0.2	0.6	0.4	0.3	0.8	22.7
No Water Heater .....	Q	Q	Q	Q	Q	Q	Q	NF
Water Heaters for Two or More Units .....	11.9	0.7	1.3	2.2	2.1	1.4	4.1	15.1
Size .....								
Small .....	12.2	1.2	2.6	2.5	1.6	1.4	3.0	12.0
Medium .....	49.4	7.6	8.7	8.4	5.9	7.3	11.5	5.9
Large .....	25.6	4.8	4.6	4.3	3.2	3.1	5.6	8.0
Don't Know .....	3.8	0.5	0.7	0.6	0.4	0.5	1.1	22.0
No Separate Heater .....	2.5	Q	0.2	0.6	0.4	0.3	0.8	22.7
No Water Heater .....	Q	Q	Q	Q	Q	Q	Q	NF
Water Heaters for Two or More Units .....	11.9	0.7	1.3	2.2	2.1	1.4	4.1	15.1
<b>Heaters (other)</b> .....	4.4	1.3	1.0	0.9	0.3	0.4	0.5	18.7
Hot Tub or Spa (heaters) .....	3.3	0.9	0.9	0.6	0.3	0.3	0.4	20.8
Electric .....	0.9	0.3	Q	Q	Q	Q	Q	32.9
Natural Gas .....	Q	Q	Q	Q	Q	Q	Q	NF
LPG/Other .....	13.4	1.4	1.8	2.2	1.7	2.1	4.3	9.6
Portable Space (heaters) .....	11.9	1.1	1.6	1.9	1.5	1.9	3.8	10.0
Electric .....	1.8	0.3	Q	0.3	Q	Q	0.6	23.3
Kerosene .....								

See footnotes at end of table.

**Table HC5-2a. Appliances by Year of Construction,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total	Year of Construction						RSE Row Factors
		1990 to 2001 <sup>1</sup>	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	<b>0.4</b>	<b>1.5</b>	<b>1.2</b>	<b>1.1</b>	<b>1.2</b>	<b>1.1</b>	<b>0.9</b>	
Swimming Pool (heaters) .....	1.2	0.4	0.2	Q	Q	Q	Q	30.5
Natural Gas .....	0.8	0.4	Q	Q	Q	Q	Q	35.8
Electric/LPG/Other .....	0.4	Q	Q	Q	Q	Q	Q	63.8
Waterbed Heaters .....	5.5	0.8	1.2	1.0	0.7	0.6	1.2	15.4
1 .....	4.8	0.7	1.0	0.8	0.6	0.5	1.2	17.1
2 or More .....	0.8	Q	Q	Q	Q	Q	Q	46.8
Used All Year .....	5.0	0.8	1.0	0.9	0.6	0.6	1.1	16.4
1 .....	4.3	0.6	0.9	0.8	0.4	0.5	1.0	18.2
2 or More .....	0.6	Q	Q	Q	Q	Q	Q	52.9
<b>Other Appliances</b>								
Automobile Block/Engine/ Battery Heater .....	2.3	0.3	0.2	0.4	0.3	0.3	0.9	24.2
Ceiling Fans .....	69.6	12.0	13.1	11.2	8.5	8.9	15.9	4.9
1 .....	22.0	3.2	4.0	3.8	2.7	2.7	5.5	8.3
2 .....	15.1	2.6	2.5	2.1	2.0	2.0	3.9	10.0
3 or more .....	32.6	6.2	6.6	5.3	3.8	4.1	6.5	7.2
Electric Dehumidifier .....	12.1	1.4	1.7	1.6	1.5	2.3	3.6	12.2
Electric Humidifier .....	15.6	2.3	2.8	2.4	1.9	2.1	4.1	10.0
Evaporative/Swamp Cooler .....	2.7	0.2	0.4	0.7	0.4	0.3	0.7	29.6
Heated Aquarium .....	4.5	0.7	0.9	0.9	0.5	0.6	0.9	16.1
Outdoor Gas Light <sup>4</sup> .....	0.5	Q	Q	Q	Q	Q	Q	37.3
Pumps (Electric) .....	21.2	4.2	4.0	4.1	2.5	2.2	4.1	9.5
Rechargeable Tools/Appliances ...	47.7	8.1	8.3	8.2	6.1	6.5	10.5	6.0
Swimming Pool (with filters) .....	6.5	1.0	1.4	1.4	0.9	0.8	1.0	15.3
Well Water .....	13.8	2.5	2.5	2.7	1.8	1.3	3.0	12.7

<sup>1</sup> New construction for 2001 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

<sup>2</sup> The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (2.1 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

<sup>3</sup> The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

<sup>4</sup> Includes LPG and natural gas.

cf = Cubic feet.

NF = No applicable RSE row factor.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 2001 Residential Energy Consumption Survey.

**Table HC5-3a. Appliances by Household Income, Million U.S. Households, 2001**

Appliance Types and Characteristics	Total	2001 Household Income				Below Poverty Line	Eligible for Federal Assistance <sup>1</sup>	RSE Row Factors
		Less than \$14,999	\$15,000 to \$29,999	\$30,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.5	1.4	1.1	1.0	0.8	1.6	1.0	
<b>Total</b> .....	107.0	18.7	22.9	27.1	38.3	15.0	33.8	3.2
<b>Kitchen Appliances</b>								
<b>Cooking Appliances</b>								
<b>Oven</b> .....	101.7	18.0	22.0	26.1	35.6	14.4	32.6	3.2
1 .....	95.2	17.3	21.1	24.8	32.0	13.8	31.1	3.4
2 or More .....	6.5	0.8	0.9	1.3	3.6	0.6	1.5	13.1
<b>Most Used Oven</b> .....	101.7	18.0	22.0	26.1	35.6	14.4	32.6	3.2
Electric .....	63.0	10.1	12.9	16.2	23.8	7.6	17.5	4.0
Natural Gas .....	34.3	7.1	7.8	8.6	10.9	6.1	13.2	6.3
LPG .....	4.4	0.9	1.4	1.3	0.9	0.7	1.9	15.7
Other .....	Q	Q	Q	Q	Q	Q	Q	NF
<b>Most Used Self-Cleaning Oven</b> .....	48.2	4.1	8.5	12.4	23.2	3.0	9.6	5.2
Continuous .....	11.2	1.0	2.0	3.0	5.2	0.7	2.5	12.2
Manual Start .....	37.0	3.1	6.5	9.4	18.0	2.3	7.1	5.9
<b>Range</b> .....	105.7	18.5	22.5	26.9	37.7	14.8	33.3	3.2
1 .....	100.5	17.7	21.7	25.7	35.5	14.2	31.7	3.3
2 or More .....	5.2	0.8	0.9	1.2	2.3	0.6	1.6	13.7
<b>Most Used Range</b> .....	105.7	18.5	22.5	26.9	37.7	14.8	33.3	3.2
Electric .....	64.2	10.4	13.2	16.5	24.2	7.9	17.9	4.1
Natural Gas .....	36.7	7.3	8.0	9.1	12.4	6.3	13.5	6.3
LPG .....	4.7	0.9	1.4	1.3	1.1	0.7	1.9	15.5
Other .....	Q	Q	Q	Q	Q	Q	Q	NF
<b>Built-in/Stove-top Grill</b> .....	2.9	0.6	0.3	0.8	1.4	0.5	0.7	21.2
Electric .....	1.8	0.3	0.1	0.5	0.8	Q	0.4	28.8
Natural Gas .....	1.0	0.2	Q	0.2	0.4	0.2	0.3	28.6
LPG .....	Q	Q	Q	Q	Q	Q	Q	NF
Other .....	Q	Q	Q	Q	Q	Q	Q	NF
<b>Refrigerators and Freezers</b>								
<b>Refrigerators</b> .....	106.8	18.6	22.8	27.1	38.3	14.9	33.7	3.2
1 .....	88.7	17.6	20.1	22.6	28.5	14.0	30.2	3.4
2 or More .....	18.1	1.0	2.8	4.5	9.8	0.9	3.5	8.2
<b>Most-Used Refrigerator</b>								
Defrost Method								
Frost-Free .....	96.9	15.5	19.9	25.0	36.5	12.3	28.6	3.5
Manual .....	9.9	3.1	2.9	2.1	1.8	2.6	5.1	9.7
<b>Type of Refrigerator</b>								
2-Doors (top and bottom) .....	73.0	14.9	16.7	19.0	22.5	11.7	25.6	3.6
2-Doors (side-by-side) .....	27.1	1.8	4.2	6.6	14.5	1.7	5.1	7.6
Regular (single door) .....	5.7	1.7	1.7	1.3	1.0	1.3	2.7	12.2
Half-Size/Other .....	1.0	0.3	0.2	0.3	0.3	0.2	0.4	27.3

See footnotes at end of table.

**Table HC5-3a. Appliances by Household Income,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total	2001 Household Income				Below Poverty Line	Eligible for Federal Assistance <sup>1</sup>	RSE Row Factors
		Less than \$14,999	\$15,000 to \$29,999	\$30,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.5	1.4	1.1	1.0	0.8	1.6	1.0	
<b>Age of Refrigerator</b>								
Less than 2 Years .....	14.5	2.4	2.7	3.5	5.9	2.2	4.5	7.6
2 to 4 Years .....	20.7	3.0	4.0	5.0	8.6	2.5	6.2	7.4
5 to 9 Years .....	31.1	5.1	6.5	8.0	11.7	4.2	9.5	5.2
10 to 19 Years .....	26.7	3.8	5.6	7.8	9.4	2.8	7.2	6.6
20 Years or More .....	7.1	2.3	2.0	1.4	1.5	1.5	3.1	11.5
Don't Know .....	6.7	2.1	2.0	1.5	1.2	1.7	3.2	11.5
<b>Size of Refrigerator</b>								
Very Small (Less than 11 cf) ...	0.6	0.3	0.2	Q	Q	0.3	0.5	28.2
Small (11-14 cf) .....	5.7	2.0	1.6	1.2	0.9	1.5	2.9	12.8
Medium (15-18 cf) .....	52.2	10.7	13.2	13.9	14.4	8.5	19.1	4.5
Large (19-22 cf) .....	43.0	5.4	7.1	11.0	19.5	4.4	10.4	5.4
Very Large (23 or More cf) .....	5.3	0.2	0.7	1.0	3.4	0.2	0.8	18.1
<b>Through-the-Door Ice/Water Service</b>								
Yes .....	22.1	1.1	2.9	5.2	12.8	1.1	3.6	7.9
No .....	84.9	17.6	20.0	21.9	25.5	13.9	30.2	3.5
<b>Freezer (separate)</b>								
1 .....	34.2	4.4	6.9	9.2	13.7	3.1	9.2	6.0
2 or more .....	30.8	3.9	6.1	8.4	12.4	2.9	8.2	6.0
3 or more .....	3.4	0.4	0.9	0.8	1.3	0.2	1.0	18.3
<b>Most-Used Freezer</b>								
Defrost Method								
Frost-Free .....	12.2	1.3	2.0	3.2	5.7	1.0	2.9	9.5
Manual .....	22.0	3.0	4.9	6.0	8.1	2.1	6.3	7.2
<b>Type of Freezer</b>								
Upright .....	17.8	1.7	3.3	4.5	8.3	1.0	3.6	8.3
Chest .....	16.5	2.7	3.6	4.7	5.4	2.1	5.6	7.7
<b>Age of Freezer</b>								
Less than 2 Years .....	3.1	0.5	0.6	1.0	1.1	0.4	0.9	18.4
2 to 4 Years .....	4.6	0.7	0.8	0.9	2.2	0.5	1.3	14.2
5 to 9 Years .....	6.8	0.7	1.4	2.0	2.7	0.5	1.8	12.3
10 to 19 Years .....	11.7	1.3	2.2	3.2	5.0	1.0	2.9	9.7
20 Years or More .....	7.3	1.0	1.9	2.0	2.5	0.6	2.1	12.0
Don't Know .....	0.6	Q	0.2	Q	0.2	Q	0.2	34.0
<b>Freezer Size</b>								
Very Small (Less than 11 cf) .....	2.5	0.5	0.5	0.6	0.8	0.4	0.9	18.0
Small (11-14 cf) .....	8.2	1.1	1.8	2.3	3.0	0.8	2.5	10.1
Medium (15-18 cf) .....	13.3	1.8	2.7	3.8	5.0	1.2	3.7	8.7
Large (19-22 cf) .....	8.7	0.9	1.6	2.0	4.2	0.6	1.9	12.0
Very Large (23 or More cf) .....	1.6	Q	0.3	0.5	0.7	Q	0.2	26.1
<b>Other Kitchen Appliances</b>								
Dishwasher .....	56.7	3.3	9.1	14.9	29.3	2.6	9.0	5.4
Electric Coffee Makers .....	65.5	8.7	12.8	16.7	27.3	6.4	17.2	4.1
Electric Toaster Oven .....	36.1	5.1	7.7	8.9	14.3	4.1	10.3	5.7
Microwave Oven .....	92.1	14.0	19.4	23.8	35.0	11.0	26.7	3.3

See footnotes at end of table.

**Table HC5-3a. Appliances by Household Income,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total	2001 Household Income				Below Poverty Line	Eligible for Federal Assistance <sup>1</sup>	RSE Row Factors
		Less than \$14,999	\$15,000 to \$29,999	\$30,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.5	1.4	1.1	1.0	0.8	1.6	1.0	
<b>Households With Electric Air-Conditioning Equipment</b>								
Air-Conditioning Equipment .....	82.9	12.3	17.4	21.5	31.7	9.6	23.4	3.9
Air Conditioners Not Used .....	2.1	0.4	0.7	0.5	0.5	0.4	0.9	20.8
<b>Households Using Electric Air-Conditioning<sup>2</sup></b>								
Air-Conditioning <sup>2</sup> .....	80.8	11.9	16.7	21.0	31.2	9.1	22.6	3.9
<b>Type of Electric Air-Conditioning Used</b>								
Central Air-Conditioning <sup>3</sup> .....	57.5	6.2	10.7	15.2	25.3	4.5	12.4	5.3
Without a Heat Pump .....	46.2	4.9	9.1	12.1	20.1	3.6	10.4	6.1
With a Heat Pump .....	11.3	1.3	1.6	3.2	5.2	0.8	2.0	17.0
Room Air-Conditioning .....	23.3	5.7	6.0	5.8	5.9	4.7	10.1	6.1
1 Unit .....	12.8	4.0	3.4	2.9	2.5	3.3	6.3	8.1
2 Units .....	7.5	1.4	1.9	2.2	2.0	1.1	3.1	10.2
3 or More Units .....	3.0	0.3	0.7	0.7	1.3	0.3	0.8	20.0
<b>Entertainment</b>								
<b>Color Television Sets</b>								
1 .....	105.8	18.1	22.7	26.9	38.0	14.6	33.1	3.3
2 .....	29.3	8.5	8.6	6.5	5.7	6.4	12.4	5.4
3 .....	38.4	6.4	8.5	10.7	12.8	4.8	11.9	4.5
4 .....	23.3	2.5	3.8	6.1	10.9	2.3	5.7	6.7
5 .....	10.2	0.6	1.4	2.6	5.7	0.9	2.4	11.1
5 or More .....	4.5	Q	0.4	1.1	2.9	0.3	0.7	15.5
<b>Large Screen Television Sets</b>								
1 .....	36.6	4.7	6.7	9.8	15.3	3.8	9.8	6.4
2 .....	27.3	3.7	5.1	7.0	11.4	2.8	7.4	7.1
3 .....	7.9	0.9	1.5	2.2	3.2	0.9	2.1	12.2
3 or More .....	1.4	Q	Q	0.5	0.7	Q	0.3	35.1
<b>Cable/Satellite Dish Antennas</b>								
Cable Network .....	82.2	12.1	16.2	20.9	33.0	9.4	22.9	3.6
Satellite Dish Antenna .....	68.3	11.0	13.4	16.6	27.2	8.5	19.8	4.2
Both .....	12.0	1.0	2.5	3.8	4.7	0.9	2.7	9.7
Both .....	1.9	Q	0.3	0.6	1.1	Q	0.3	25.6
<b>Video Cassette Recorders (VCRs) and DVD Players</b>								
1 .....	96.1	13.9	19.8	25.3	37.0	11.7	27.3	3.6
2 .....	52.3	10.0	12.7	14.4	15.3	7.8	17.2	4.5
3 .....	29.0	3.3	5.1	7.9	12.7	2.9	7.4	6.6
3 or More .....	14.7	0.7	2.0	3.0	9.0	0.9	2.8	10.0
<b>Stereo Equipment</b>								
Portable/Boom Box .....	80.3	10.2	15.4	20.9	33.8	8.8	21.1	3.5
Compact Stereo System .....	26.1	3.2	4.7	6.9	11.3	3.1	7.0	6.5
Component Stereo System .....	36.5	4.7	7.1	9.5	15.3	3.9	9.9	5.2
Other System .....	36.3	3.1	5.1	9.4	18.7	3.1	7.3	6.1
Other System .....	3.1	0.6	0.7	0.8	0.9	0.4	1.1	16.7
<b>Clothes Washers and Dryers</b>								
Clothes Washer .....	84.1	10.7	16.4	22.1	34.9	8.3	22.0	3.9
Top loading .....	81.6	10.5	16.0	21.6	33.5	8.2	21.5	4.0
Front loading .....	2.5	0.3	0.4	0.5	1.4	Q	0.6	21.4

See footnotes at end of table.

**Table HC5-3a. Appliances by Household Income,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total	2001 Household Income				Below Poverty Line	Eligible for Federal Assistance <sup>1</sup>	RSE Row Factors
		Less than \$14,999	\$15,000 to \$29,999	\$30,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.5	1.4	1.1	1.0	0.8	1.6	1.0	
<b>Clothes Dryer</b> .....	78.8	8.4	15.0	21.3	34.1	6.5	18.7	4.1
Electric .....	61.1	6.9	12.2	16.8	25.1	5.1	15.1	5.0
Natural Gas .....	16.9	1.4	2.6	4.2	8.7	1.3	3.4	11.2
LPG .....	0.8	Q	Q	0.3	0.3	Q	0.3	32.1
<b>Water Heater Equipment</b>								
<b>Water Heaters</b> .....	107.0	18.7	22.9	27.1	38.3	15.0	33.8	3.2
Electric .....	40.8	8.3	9.5	10.6	12.4	6.2	14.0	6.0
For One Housing Unit .....	37.7	7.2	8.7	10.0	11.8	5.6	12.7	6.6
For Two or More Units .....	3.1	1.1	0.8	0.7	0.5	0.7	1.4	21.0
Natural Gas .....	58.0	9.3	11.7	14.1	23.0	7.8	17.6	5.0
For One Housing Unit .....	50.9	6.8	9.9	12.5	21.7	5.6	13.6	5.7
For Two or More Units .....	7.1	2.5	1.8	1.6	1.2	2.2	4.0	12.5
Fuel Oil .....	4.6	0.6	0.9	1.3	1.9	0.4	1.1	16.3
For One Housing Unit .....	3.0	0.2	0.5	0.8	1.5	0.2	0.6	19.7
For Two or More Units .....	1.6	0.3	0.4	0.5	0.4	0.3	0.5	26.4
LPG .....	2.9	0.4	0.7	1.0	0.8	0.4	0.9	19.2
Other .....	0.5	Q	Q	Q	0.2	Q	Q	50.6
No Water Heater .....	Q	Q	Q	Q	Q	Q	Q	NF
<b>Water Heater (for one housing unit)</b> .....	95.0	14.7	19.9	24.3	36.1	11.8	27.8	3.8
Age .....								
Less than 2 Years .....	11.4	1.5	2.1	2.9	4.9	1.2	2.9	9.7
2 to 4 Years .....	17.3	2.2	3.7	4.5	6.9	1.9	4.7	8.2
5 to 9 Years .....	25.3	3.2	5.0	6.2	10.9	2.5	6.4	7.4
10 to 19 Years .....	21.7	3.0	4.1	6.0	8.6	2.2	5.5	7.7
20 Years or More .....	7.4	2.0	1.7	1.8	2.0	1.3	2.9	11.9
Don't Know .....	9.4	2.4	2.7	2.4	1.9	2.1	4.4	9.4
No Separate Heater .....	2.5	0.5	0.6	0.6	0.9	0.5	0.9	17.8
No Water Heater .....	Q	Q	Q	Q	Q	Q	Q	NF
Water Heaters for Two or More Units .....	11.9	4.0	3.0	2.7	2.2	3.2	6.0	10.3
Size .....								
Small .....	12.2	3.2	3.7	2.6	2.7	2.4	5.0	9.3
Medium .....	49.4	7.1	11.2	13.4	17.7	5.6	14.3	4.9
Large .....	25.6	2.9	3.3	6.5	12.9	2.3	5.6	7.9
Don't Know .....	3.8	0.9	1.0	0.9	0.9	0.9	1.7	16.9
No Separate Heater .....	2.5	0.5	0.6	0.6	0.9	0.5	0.9	17.8
No Water Heater .....	Q	Q	Q	Q	Q	Q	Q	NF
Water Heaters for Two or More Units .....	11.9	4.0	3.0	2.7	2.2	3.2	6.0	10.3
<b>Heaters (other)</b> .....	4.4	Q	0.4	0.7	3.3	Q	0.4	19.7
Hot Tub or Spa (heaters) .....	3.3	Q	0.3	0.5	2.5	Q	Q	20.1
Electric .....	0.9	Q	Q	Q	0.6	Q	Q	29.6
Natural Gas .....	Q	Q	Q	Q	Q	Q	Q	NF
LPG/Other .....	13.4	2.4	2.5	3.3	5.3	1.9	4.2	7.9
Portable Space (heaters) .....	11.9	2.2	2.2	2.8	4.7	1.7	3.8	8.5
Electric .....	1.8	0.2	0.3	0.6	0.6	0.3	0.6	21.3
Kerosene .....								

See footnotes at end of table.

**Table HC5-3a. Appliances by Household Income,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total	2001 Household Income				Below Poverty Line	Eligible for Federal Assistance <sup>1</sup>	RSE Row Factors
		Less than \$14,999	\$15,000 to \$29,999	\$30,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.5	1.4	1.1	1.0	0.8	1.6	1.0	
Swimming Pool (heaters) .....	1.2	Q	Q	Q	1.0	Q	Q	30.5
Natural Gas .....	0.8	Q	Q	Q	0.7	Q	Q	37.6
Electric/LPG/Other .....	0.4	Q	Q	Q	0.3	Q	Q	46.7
Waterbed Heaters .....	5.5	0.2	0.8	1.6	2.9	0.2	0.8	14.6
1 .....	4.8	0.2	0.7	1.4	2.4	0.2	0.7	15.3
2 or More .....	0.8	Q	Q	Q	0.5	Q	Q	35.0
Used All Year .....	5.0	0.2	0.7	1.4	2.6	0.2	0.7	15.1
1 .....	4.3	0.2	0.7	1.3	2.2	0.2	0.7	15.6
2 or More .....	0.6	Q	Q	Q	0.4	Q	Q	38.9
<b>Other Appliances</b>								
Automobile Block/Engine/ Battery Heater .....	2.3	0.3	0.6	0.8	0.7	0.2	0.7	21.2
Ceiling Fans .....	69.6	9.1	13.6	18.6	28.3	6.7	18.0	4.1
1 .....	22.0	4.1	5.3	5.8	6.8	3.0	7.6	6.8
2 .....	15.1	2.2	3.1	4.5	5.2	1.6	4.4	8.7
3 or more .....	32.6	2.9	5.2	8.3	16.2	2.0	5.9	7.0
Electric Dehumidifier .....	12.1	0.6	1.5	3.2	6.8	0.4	1.8	11.4
Electric Humidifier .....	15.6	1.6	2.6	3.9	7.6	1.0	3.5	8.5
Evaporative/Swamp Cooler .....	2.7	0.7	0.7	0.8	0.5	0.6	1.0	23.0
Heated Aquarium .....	4.5	0.3	0.7	1.3	2.1	0.4	0.9	16.5
Outdoor Gas Light <sup>4</sup> .....	0.5	Q	Q	Q	0.3	Q	Q	34.6
Pumps (Electric) .....	21.2	1.7	3.3	5.3	10.9	1.2	4.1	10.4
Rechargeable Tools/Appliances ...	47.7	3.2	7.9	12.5	24.0	2.4	8.7	5.7
Swimming Pool (with filters) .....	6.5	Q	0.6	1.4	4.5	Q	0.6	15.2
Well Water .....	13.8	1.6	2.7	3.7	5.8	1.0	3.4	12.9

<sup>1</sup> Below 150 percent of poverty line or 60 percent of median State income.

<sup>2</sup> The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (2.1 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

<sup>3</sup> The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

<sup>4</sup> Includes LPG and natural gas.

cf = Cubic feet.

NF = No applicable RSE row factor.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 2001 Residential Energy Consumption Survey.



**Table HC5-4a. Appliances by Type of Housing Unit,  
Million U.S. Households, 2001**

Appliance Types and Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Apartments in Buildings With		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.5	1.7	1.6	1.9	
<b>Total</b> .....	107.0	73.7	9.5	17.0	6.8	4.2
<b>Kitchen Appliances</b>						
<b>Cooking Appliances</b>						
<b>Oven</b> .....	101.7	69.1	9.4	16.7	6.6	4.3
1 .....	95.2	63.7	8.9	16.2	6.3	4.3
2 or More .....	6.5	5.4	0.4	0.4	0.2	15.9
<b>Most Used Oven</b> .....	101.7	69.1	9.4	16.7	6.6	4.3
Electric .....	63.0	43.3	5.2	10.9	3.6	5.8
Natural Gas .....	34.3	22.8	4.1	5.7	1.7	7.5
LPG .....	4.4	3.1	Q	Q	1.2	18.8
Other .....	Q	Q	Q	Q	Q	NF
<b>Most Used Self-Cleaning Oven</b>	48.2	39.9	2.6	4.1	1.6	7.3
Continuous .....	11.2	8.9	0.7	1.1	0.5	16.2
Manual Start .....	37.0	31.0	1.9	3.0	1.1	8.3
<b>Range</b> .....	105.7	72.8	9.4	16.8	6.7	4.3
1 .....	100.5	68.7	9.0	16.4	6.5	4.4
2 or More .....	5.2	4.1	0.4	0.4	0.2	16.4
<b>Most Used Range</b> .....	105.7	72.8	9.4	16.8	6.7	4.3
Electric .....	64.2	44.3	5.2	11.1	3.7	5.9
Natural Gas .....	36.7	25.2	4.1	5.6	1.8	7.5
LPG .....	4.7	3.3	Q	Q	1.2	18.5
Other .....	Q	Q	Q	Q	Q	NF
<b>Built-in/Stove-top Grill</b> .....	2.9	2.2	0.3	0.4	Q	24.1
Electric .....	1.8	1.3	Q	0.3	Q	30.0
Natural Gas .....	1.0	0.7	Q	Q	Q	39.5
LPG .....	Q	Q	Q	Q	Q	NF
Other .....	Q	Q	Q	Q	Q	NF
<b>Refrigerators and Freezers</b>						
<b>Refrigerators</b> .....	106.8	73.6	9.5	16.9	6.8	4.2
1 .....	88.7	56.6	9.0	16.8	6.3	4.5
2 or More .....	18.1	17.1	0.4	Q	0.5	10.4
<b>Most-Used Refrigerator</b>						
Defrost Method						
Frost-Free .....	96.9	69.3	7.6	14.3	5.6	4.6
Manual .....	9.9	4.3	1.8	2.6	1.2	10.6
<b>Type of Refrigerator</b>						
2-Doors (top and bottom) .....	73.0	45.8	7.6	15.0	4.7	4.3
2-Doors (side-by-side) .....	27.1	24.3	0.8	0.7	1.3	9.8
Regular (single door) .....	5.7	3.0	0.9	1.0	0.7	13.6
Half-Size/Other .....	1.0	0.6	Q	0.3	Q	32.4

See footnotes at end of table.

**Table HC5-4a. Appliances by Type of Housing Unit,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Apartments in Buildings With		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.5	1.7	1.6	1.9	
<b>Age of Refrigerator</b>						
Less than 2 Years .....	14.5	10.3	1.2	2.0	1.1	9.6
2 to 4 Years .....	20.7	14.4	1.9	3.2	1.2	9.5
5 to 9 Years .....	31.1	23.1	2.5	3.9	1.7	5.9
10 to 19 Years .....	26.7	19.9	2.0	3.0	1.8	8.0
20 Years or More .....	7.1	4.3	0.8	1.4	0.6	12.6
Don't Know .....	6.7	1.7	1.1	3.5	0.4	13.3
<b>Size of Refrigerator</b>						
Very Small (Less than 11 cf) ...	0.6	0.2	Q	Q	Q	59.2
Small (11-14 cf) .....	5.7	2.3	0.6	2.2	0.6	13.6
Medium (15-18 cf) .....	52.2	31.4	5.9	11.0	4.0	5.2
Large (19-22 cf) .....	43.0	34.9	2.6	3.4	2.1	6.5
Very Large (23 or More cf) .....	5.3	4.9	Q	Q	Q	18.9
<b>Through-the-Door Ice/Water Service</b>						
Yes .....	22.1	20.4	0.4	Q	1.0	10.4
No .....	84.9	53.3	9.1	16.8	5.8	4.4
<b>Freezer (separate)</b>						
1 .....	34.2	30.6	1.0	0.7	2.0	8.4
2 or more .....	30.8	27.4	0.9	0.7	1.9	8.3
	3.4	3.2	Q	Q	Q	22.1
<b>Most-Used Freezer</b>						
Defrost Method						
Frost-Free .....	12.2	10.9	0.5	0.2	0.6	13.6
Manual .....	22.0	19.7	0.4	0.5	1.4	10.6
<b>Type of Freezer</b>						
Upright .....	17.8	16.3	0.3	0.3	0.9	12.7
Chest .....	16.5	14.3	0.7	0.4	1.1	10.7
<b>Age of Freezer</b>						
Less than 2 Years .....	3.1	2.6	0.2	Q	0.3	20.6
2 to 4 Years .....	4.6	4.0	Q	Q	0.3	14.3
5 to 9 Years .....	6.8	6.2	Q	Q	0.4	13.7
10 to 19 Years .....	11.7	10.6	0.3	0.3	0.6	14.2
20 Years or More .....	7.3	6.8	Q	Q	0.3	13.7
Don't Know .....	0.6	0.5	Q	Q	Q	41.1
<b>Freezer Size</b>						
Very Small (Less than 11 cf) .....	2.5	1.9	Q	Q	0.3	17.8
Small (11-14 cf) .....	8.2	7.1	0.3	0.2	0.6	15.2
Medium (15-18 cf) .....	13.3	12.0	0.4	Q	0.7	11.5
Large (19-22 cf) .....	8.7	8.1	0.2	Q	0.4	13.6
Very Large (23 or More cf) .....	1.6	1.5	Q	Q	Q	30.4
<b>Other Kitchen Appliances</b>						
Dishwasher .....	56.7	44.5	2.6	7.1	2.5	6.6
Electric Coffee Makers .....	65.5	49.8	4.3	7.3	4.1	5.2
Electric Toaster Oven .....	36.1	25.9	2.7	5.5	1.9	7.3
Microwave Oven .....	92.1	65.9	7.6	12.5	6.2	4.2

See footnotes at end of table.

**Table HC5-4a. Appliances by Type of Housing Unit,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Apartments in Buildings With		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.5	1.7	1.6	1.9	
<b>Households With Electric</b>						
<b>Air-Conditioning Equipment</b> .....	82.9	58.7	6.5	12.4	5.3	4.9
Air Conditioners Not Used .....	2.1	1.1	Q	0.6	Q	22.6
<b>Households Using Electric</b>						
<b>Air-Conditioning<sup>1</sup></b> .....	80.8	57.6	6.3	11.8	5.1	4.9
<b>Type of Electric Air-Conditioning</b>						
<b>Used</b>						
Central Air-Conditioning <sup>2</sup> .....	57.5	43.6	3.2	7.1	3.5	6.7
Without a Heat Pump .....	46.2	35.0	2.4	6.1	2.7	7.7
With a Heat Pump .....	11.3	8.6	0.8	1.0	0.8	19.7
Room Air-Conditioning .....	23.3	13.9	3.1	4.7	1.6	7.7
1 Unit .....	12.8	6.7	1.9	3.3	0.9	9.2
2 Units .....	7.5	4.9	0.9	1.0	0.7	12.0
3 or More Units .....	3.0	2.3	0.3	0.3	Q	21.9
<b>Entertainment</b>						
<b>Color Television Sets</b> .....						
1 .....	105.8	73.1	9.3	16.6	6.7	4.3
2 .....	29.3	15.3	3.8	7.9	2.4	6.3
3 .....	38.4	26.1	3.4	6.4	2.5	5.3
4 .....	23.3	18.3	1.6	2.0	1.3	7.7
5 or More .....	10.2	9.2	0.4	0.3	0.4	15.7
	4.5	4.2	Q	Q	Q	14.2
<b>Large Screen Television Sets</b> ....						
1 .....	36.6	27.5	2.7	4.3	2.1	7.6
2 .....	27.3	20.1	2.1	3.5	1.6	8.1
3 or More .....	7.9	6.1	0.6	0.7	0.5	14.7
	1.4	1.3	Q	Q	Q	54.4
<b>Cable/Satellite Dish Antennas</b> ...						
Cable Network .....	82.2	59.2	6.6	11.8	4.6	4.7
Satellite Dish Antenna .....	68.3	47.6	6.2	11.3	3.2	5.5
Both .....	12.0	9.9	0.3	0.4	1.3	13.2
	1.9	1.6	Q	Q	Q	30.6
<b>Video Cassette Recorders</b>						
<b>(VCRs) and DVD Players</b> .....	96.1	67.8	8.3	14.0	6.0	4.6
1 .....	52.3	33.7	5.4	9.8	3.5	5.4
2 .....	29.0	21.7	2.1	3.3	1.8	7.7
3 or More .....	14.7	12.4	0.8	0.9	0.7	11.6
<b>Stereo Equipment</b> .....						
Portable/Boom Box .....	80.3	57.2	6.8	11.6	4.6	4.4
Compact Stereo System .....	26.1	18.6	2.6	3.4	1.5	7.6
Component Stereo System .....	36.5	25.2	3.2	6.2	1.9	6.3
Other System .....	36.3	28.5	2.2	3.7	1.9	6.9
	3.1	2.3	0.4	0.2	0.2	19.8
<b>Clothes Washers and Dryers</b>						
<b>Clothes Washer</b> .....						
Top loading .....	84.1	70.0	4.5	3.9	5.8	5.3
Front loading .....	81.6	67.8	4.4	3.8	5.6	5.4
	2.5	2.2	Q	Q	Q	23.2

See footnotes at end of table.

**Table HC5-4a. Appliances by Type of Housing Unit,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Apartments in Buildings With		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.5	1.7	1.6	1.9	
<b>Clothes Dryer</b> .....	78.8	66.4	4.1	3.1	5.2	5.6
Electric .....	61.1	50.5	3.2	2.7	4.7	7.0
Natural Gas .....	16.9	15.2	0.9	Q	0.4	14.5
LPG .....	0.8	0.7	Q	Q	Q	44.6
<b>Water Heater Equipment</b>						
<b>Water Heaters</b> .....	107.0	73.7	9.5	17.0	6.8	4.2
Electric .....	40.8	25.2	3.4	7.4	4.9	7.6
For One Housing Unit .....	37.7	25.1	2.9	4.8	4.9	8.5
For Two or More Units .....	3.1	Q	0.4	2.5	Q	16.8
Natural Gas .....	58.0	42.7	5.7	8.1	1.5	6.7
For One Housing Unit .....	50.9	42.3	3.8	3.3	1.5	8.4
For Two or More Units .....	7.1	0.3	1.9	4.9	Q	16.2
Fuel Oil .....	4.6	2.9	0.4	1.3	Q	20.4
For One Housing Unit .....	3.0	2.9	Q	Q	Q	32.3
For Two or More Units .....	1.6	Q	0.4	1.2	Q	23.7
LPG .....	2.9	2.5	Q	Q	0.3	24.4
Other .....	0.5	0.3	Q	Q	Q	69.6
No Water Heater .....	Q	Q	Q	Q	Q	NF
<b>Water Heater (for one housing unit)</b> .....	95.0	73.2	6.8	8.3	6.8	5.0
Age .....						
Less than 2 Years .....	11.4	8.8	1.0	0.6	1.1	11.2
2 to 4 Years .....	17.3	14.2	0.9	0.9	1.3	11.4
5 to 9 Years .....	25.3	20.7	1.3	1.6	1.7	9.3
10 to 19 Years .....	21.7	18.0	1.2	1.1	1.4	10.5
20 Years or More .....	7.4	5.4	0.7	0.7	0.6	14.8
Don't Know .....	9.4	4.4	1.7	2.6	0.7	10.9
No Separate Heater .....	2.5	1.7	Q	0.6	Q	26.1
No Water Heater .....	Q	Q	Q	Q	Q	NF
Water Heaters for Two or More Units .....	11.9	0.5	2.7	8.7	Q	14.4
Size .....						
Small .....	12.2	6.8	1.3	2.1	2.0	11.1
Medium .....	49.4	38.6	3.5	3.7	3.6	6.1
Large .....	25.6	22.4	1.1	1.2	0.8	11.1
Don't Know .....	3.8	2.2	0.6	0.6	0.3	21.5
No Separate Heater .....	2.5	1.7	Q	0.6	Q	26.1
No Water Heater .....	Q	Q	Q	Q	Q	NF
Water Heaters for Two or More Units .....	11.9	0.5	2.7	8.7	Q	14.4
<b>Heaters (other)</b> .....						
Hot Tub or Spa (heaters) .....	4.4	4.2	Q	Q	Q	18.6
Electric .....	3.3	3.1	Q	Q	Q	21.4
Natural Gas .....	0.9	0.9	Q	Q	Q	40.2
LPG/Other .....	Q	Q	Q	Q	Q	NF
Portable Space (heaters) .....	13.4	10.4	1.1	0.9	1.0	9.4
Electric .....	11.9	9.1	1.0	0.9	0.8	10.1
Kerosene .....	1.8	1.5	Q	Q	0.2	25.9

See footnotes at end of table.

**Table HC5-4a. Appliances by Type of Housing Unit,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Apartments in Buildings With		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.4	0.5	1.7	1.6	1.9	
Swimming Pool (heaters) .....	1.2	1.2	Q	Q	Q	41.6
Natural Gas .....	0.8	0.8	Q	Q	Q	51.5
Electric/LPG/Other .....	0.4	0.4	Q	Q	Q	63.4
Waterbed Heaters .....	5.5	4.6	0.4	Q	0.4	15.6
1 .....	4.8	4.0	0.3	Q	0.3	17.1
2 or More .....	0.8	0.6	Q	Q	Q	49.8
Used All Year .....	5.0	4.2	0.4	Q	0.3	15.9
1 .....	4.3	3.7	0.3	Q	0.3	17.0
2 or More .....	0.6	0.5	Q	Q	Q	54.9
<b>Other Appliances</b>						
Automobile Block/Engine/ Battery Heater .....	2.3	1.9	Q	0.1	0.2	29.0
Ceiling Fans .....	69.6	55.1	4.5	6.1	4.0	5.4
1 .....	22.0	13.8	1.9	4.3	2.0	8.0
2 .....	15.1	11.6	1.5	1.0	1.0	10.4
3 or more .....	32.6	29.7	1.0	0.8	1.0	9.3
Electric Dehumidifier .....	12.1	11.1	0.6	0.3	0.2	16.6
Electric Humidifier .....	15.6	12.7	1.0	1.4	0.5	11.1
Evaporative/Swamp Cooler .....	2.7	2.0	Q	Q	0.4	32.6
Heated Aquarium .....	4.5	3.2	0.5	0.5	0.3	16.1
Outdoor Gas Light <sup>3</sup> .....	0.5	0.4	Q	Q	Q	41.5
Pumps (Electric) .....	21.2	19.5	0.2	Q	1.4	12.9
Rechargeable Tools/Appliances ...	47.7	38.8	2.6	3.7	2.6	6.6
Swimming Pool (with filters) .....	6.5	6.5	Q	Q	Q	17.0
Well Water .....	13.8	12.3	0.2	Q	1.3	16.1

<sup>1</sup> The number of households, where the end use is electric air-conditioning, does not include households that did not use their equipment (2.1 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

<sup>2</sup> The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

<sup>3</sup> Includes LPG and natural gas.

cf = Cubic feet.

NF = No applicable RSE row factor.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 2001 Residential Energy Consumption Survey.

**Table HC5-5a. Appliances by Type of Owner-Occupied Housing Unit,  
Million U.S. Households, 2001**

Appliance Types and Characteristics	Total Owner- Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Apartments in Buildings With		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.3	0.4	2.1	3.1	1.3	
<b>Total</b> .....	72.7	63.2	2.1	1.8	5.7	6.7
<b>Kitchen Appliances</b>						
<b>Cooking Appliances</b>						
<b>Oven</b> .....	68.3	59.1	2.0	1.7	5.4	7.0
1 .....	62.9	54.1	2.0	1.6	5.2	7.1
2 or More .....	5.4	5.0	Q	Q	0.2	22.1
<b>Most Used Oven</b> .....	68.3	59.1	2.0	1.7	5.4	7.0
Electric .....	43.8	38.3	1.2	1.3	3.0	10.2
Natural Gas .....	20.7	18.0	0.9	0.4	1.4	12.2
LPG .....	3.7	2.7	Q	Q	1.0	25.7
Other .....	Q	Q	Q	Q	Q	NF
<b>Most Used Self-Cleaning Oven</b> .....	40.4	36.8	1.1	1.1	1.4	9.9
Continuous .....	9.2	8.2	0.4	Q	0.4	20.6
Manual Start .....	31.2	28.6	0.8	0.9	1.0	11.2
<b>Range</b> .....	71.9	62.4	2.0	1.8	5.7	6.7
1 .....	67.9	58.8	2.0	1.7	5.4	6.8
2 or More .....	4.0	3.7	Q	Q	0.2	24.5
<b>Most Used Range</b> .....	71.9	62.4	2.0	1.8	5.7	6.7
Electric .....	44.9	39.3	1.2	1.3	3.1	10.2
Natural Gas .....	23.1	20.3	0.9	0.4	1.5	12.1
LPG .....	4.0	2.9	Q	Q	1.1	26.0
Other .....	Q	Q	Q	Q	Q	NF
<b>Built-in/Stove-top Grill</b> .....	2.2	2.0	Q	Q	Q	40.1
Electric .....	1.3	1.2	Q	Q	Q	45.3
Natural Gas .....	0.7	0.6	Q	Q	Q	59.4
LPG .....	Q	Q	Q	Q	Q	NF
Other .....	Q	Q	Q	Q	Q	NF
<b>Refrigerators and Freezers</b>						
<b>Refrigerators</b> .....	72.7	63.2	2.1	1.8	5.7	6.6
1 .....	56.2	47.3	1.9	1.7	5.3	7.1
2 or More .....	16.4	15.8	Q	Q	0.4	13.6
<b>Most-Used Refrigerator</b>						
Defrost Method						
Frost-Free .....	68.4	60.2	1.8	1.6	4.8	7.0
Manual .....	4.3	2.9	0.2	Q	0.9	20.1
<b>Type of Refrigerator</b>						
2-Doors (top and bottom) .....	44.5	37.7	1.5	1.5	3.8	7.7
2-Doors (side-by-side) .....	24.6	22.7	0.4	Q	1.2	11.9
Regular (single door) .....	3.1	2.4	Q	Q	0.5	26.3
Half-Size/Other .....	0.5	0.4	Q	Q	Q	72.3

See footnotes at end of table.

**Table HC5-5a. Appliances by Type of Owner-Occupied Housing Unit,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total Owner- Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Apartments in Buildings With		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.3	0.4	2.1	3.1	1.3	
<b>Age of Refrigerator</b>						
Less than 2 Years .....	10.3	8.9	Q	Q	1.0	15.6
2 to 4 Years .....	14.3	12.4	0.5	Q	1.1	14.1
5 to 9 Years .....	22.4	19.9	0.6	0.4	1.5	9.9
10 to 19 Years .....	19.9	17.3	0.6	0.6	1.5	11.2
20 Years or More .....	4.6	3.7	Q	Q	0.4	21.7
Don't Know .....	1.3	0.9	Q	Q	Q	50.7
<b>Size of Refrigerator</b>						
Very Small (Less than 11 cf) ...	0.2	Q	Q	Q	Q	98.8
Small (11-14 cf) .....	2.4	1.7	Q	Q	0.4	29.7
Medium (15-18 cf) .....	30.9	25.7	1.0	0.9	3.4	8.9
Large (19-22 cf) .....	34.3	30.9	0.9	0.8	1.8	9.4
Very Large (23 or More cf) .....	4.9	4.7	Q	Q	Q	27.6
<b>Through-the-Door Ice/Water Service</b>						
Yes .....	20.6	19.3	0.3	Q	1.0	13.6
No .....	52.1	43.9	1.8	1.6	4.7	7.5
<b>Freezer (separate)</b>						
1 .....	30.2	27.9	0.3	Q	1.9	10.6
2 or more .....	27.0	24.9	0.3	Q	1.8	10.4
	3.2	3.0	Q	Q	Q	30.4
<b>Most-Used Freezer</b>						
Defrost Method						
Frost-Free .....	10.7	10.0	Q	Q	0.5	17.5
Manual .....	19.4	17.9	Q	Q	1.3	13.0
<b>Type of Freezer</b>						
Upright .....	16.3	15.3	Q	Q	0.9	13.6
Chest .....	13.8	12.6	Q	Q	1.0	13.7
<b>Age of Freezer</b>						
Less than 2 Years .....	2.5	2.3	Q	Q	0.2	32.0
2 to 4 Years .....	4.0	3.6	Q	Q	0.3	20.9
5 to 9 Years .....	6.1	5.6	Q	Q	0.4	19.1
10 to 19 Years .....	10.4	9.7	Q	Q	0.6	18.3
20 Years or More .....	6.7	6.4	Q	Q	0.3	18.8
Don't Know .....	0.5	0.4	Q	Q	Q	70.2
<b>Freezer Size</b>						
Very Small (Less than 11 cf) .....	2.0	1.7	Q	Q	0.3	24.3
Small (11-14 cf) .....	7.2	6.5	Q	Q	0.6	18.3
Medium (15-18 cf) .....	11.8	11.1	Q	Q	0.6	15.4
Large (19-22 cf) .....	7.7	7.2	Q	Q	0.4	18.8
Very Large (23 or More cf) .....	1.4	1.4	Q	Q	Q	45.0
<b>Other Kitchen Appliances</b>						
Dishwasher .....	45.7	41.2	0.9	1.3	2.3	9.5
Electric Coffee Makers .....	50.0	44.0	1.2	1.1	3.7	8.3
Electric Toaster Oven .....	26.2	22.6	1.0	0.9	1.7	10.8
Microwave Oven .....	65.6	57.2	1.7	1.4	5.3	7.4

See footnotes at end of table.

**Table HC5-5a. Appliances by Type of Owner-Occupied Housing Unit,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total Owner- Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Apartments in Buildings With		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.3	0.4	2.1	3.1	1.3	
<b>Households With Electric</b>						
<b>Air-Conditioning Equipment</b> .....	59.5	51.9	1.5	1.5	4.5	8.2
Air Conditioners Not Used .....	1.2	1.0	Q	Q	Q	45.6
<b>Households Using Electric</b>						
<b>Air-Conditioning<sup>1</sup></b> .....	58.2	50.9	1.5	1.4	4.4	8.2
<b>Type of Electric Air-Conditioning Used</b>						
Central Air-Conditioning <sup>2</sup> .....	44.7	39.9	0.8	1.0	3.1	10.5
Without a Heat Pump .....	35.6	31.8	0.6	0.9	2.4	11.4
With a Heat Pump .....	9.1	8.1	Q	Q	0.7	28.0
Room Air-Conditioning .....	13.5	11.0	0.7	0.4	1.3	11.2
1 Unit .....	6.3	5.2	0.3	Q	0.7	14.8
2 Units .....	4.8	3.8	0.3	Q	0.6	19.6
3 or More Units .....	2.4	2.1	Q	Q	Q	36.7
<b>Entertainment</b>						
<b>Color Television Sets</b> .....						
1 .....	72.2	62.7	2.1	1.8	5.6	6.8
2 .....	15.6	12.2	0.8	0.8	1.8	11.9
3 .....	25.9	22.3	0.7	0.7	2.2	9.0
4 .....	18.2	16.4	0.5	Q	1.1	11.8
5 or More .....	8.6	8.1	Q	Q	0.4	19.9
5 or More .....	3.9	3.7	Q	Q	Q	20.9
<b>Large Screen Television Sets</b> ....						
1 .....	27.4	24.3	0.7	0.6	1.8	11.2
2 .....	20.3	17.8	0.5	0.5	1.4	12.3
3 or More .....	6.0	5.4	Q	Q	0.4	21.7
3 or More .....	1.1	1.1	Q	Q	Q	86.6
<b>Cable/Satellite Dish Antennas</b> ...						
Cable Network .....	58.8	51.7	1.6	1.5	3.9	8.0
Satellite Dish Antenna .....	46.9	41.3	1.4	1.5	2.7	8.9
Both .....	10.2	8.9	Q	Q	1.1	14.3
Both .....	1.7	1.5	Q	Q	Q	43.3
<b>Video Cassette Recorders (VCRs) and DVD Players</b> .....						
1 .....	66.7	58.5	1.9	1.4	5.0	7.1
2 .....	33.4	28.4	1.4	0.9	2.8	9.2
3 or More .....	21.4	19.1	0.3	0.4	1.6	11.9
3 or More .....	11.9	11.0	Q	Q	0.6	18.1
<b>Stereo Equipment</b> .....						
Portable/Boom Box .....	55.6	49.4	1.3	1.2	3.8	8.1
Compact Stereo System .....	17.8	15.8	0.5	0.3	1.2	12.5
Component Stereo System .....	24.7	21.7	0.6	0.7	1.7	10.3
Other System .....	27.6	25.2	0.4	0.4	1.5	11.4
Other System .....	2.2	1.9	Q	Q	Q	31.6
<b>Clothes Washers and Dryers</b>						
<b>Clothes Washer</b> .....						
Top loading .....	68.8	61.4	1.7	0.7	5.0	7.6
Front loading .....	66.6	59.4	1.6	0.7	4.9	7.6
Front loading .....	2.2	2.0	Q	Q	Q	31.2

See footnotes at end of table.



**Table HC5-5a. Appliances by Type of Owner-Occupied Housing Unit,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total Owner- Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Apartments in Buildings With		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.3	0.4	2.1	3.1	1.3	
<b>Clothes Dryer</b> .....	65.5	58.7	1.6	0.6	4.6	7.7
Electric .....	49.9	44.2	1.1	0.6	4.1	9.7
Natural Gas .....	14.7	13.8	0.4	Q	0.4	19.2
LPG .....	0.8	0.7	Q	Q	Q	59.8
<b>Water Heater Equipment</b>						
<b>Water Heaters</b> .....	72.7	63.2	2.1	1.8	5.7	6.7
Electric .....	26.9	21.4	0.6	0.9	4.0	13.4
For One Housing Unit .....	26.6	21.3	0.6	0.7	4.0	13.8
For Two or More Units .....	0.3	Q	Q	Q	Q	102.3
Natural Gas .....	39.8	36.5	1.2	0.7	1.4	9.9
For One Housing Unit .....	39.0	36.4	0.9	Q	1.4	10.5
For Two or More Units .....	0.8	Q	0.3	0.4	Q	22.3
Fuel Oil .....	3.2	2.7	Q	Q	Q	44.6
For One Housing Unit .....	2.7	2.7	Q	Q	Q	46.3
For Two or More Units .....	0.5	Q	Q	Q	Q	103.9
LPG .....	2.5	2.2	Q	Q	0.3	34.1
Other .....	0.4	0.3	Q	Q	Q	92.2
No Water Heater .....	Q	Q	Q	Q	Q	NF
<b>Water Heater (for one housing unit)</b> .....	71.1	62.9	1.5	1.0	5.7	7.4
Age .....						
Less than 2 Years .....	9.1	7.6	0.3	Q	1.0	14.5
2 to 4 Years .....	14.0	12.4	0.2	Q	1.2	14.8
5 to 9 Years .....	20.5	18.3	0.4	Q	1.5	11.5
10 to 19 Years .....	18.1	16.2	0.4	0.3	1.2	14.4
20 Years or More .....	5.1	4.6	Q	Q	0.5	21.9
Don't Know .....	2.6	2.2	Q	Q	0.3	26.6
No Separate Heater .....	1.8	1.6	Q	Q	Q	50.0
No Water Heater .....	Q	Q	Q	Q	Q	NF
Water Heaters for Two or More Units .....	1.5	0.2	0.6	0.7	Q	26.5
Size .....						
Small .....	7.9	5.4	0.4	0.4	1.8	16.1
Medium .....	37.1	32.9	0.8	0.5	3.0	9.9
Large .....	21.4	20.4	0.2	Q	0.7	16.0
Don't Know .....	1.6	1.4	Q	Q	Q	53.4
No Separate Heater .....	1.8	1.6	Q	Q	Q	50.0
No Water Heater .....	Q	Q	Q	Q	Q	NF
Water Heaters for Two or More Units .....	1.5	0.2	0.6	0.7	Q	26.5
<b>Heaters (other)</b> .....						
Hot Tub or Spa (heaters) .....	4.2	4.0	Q	Q	Q	25.0
Electric .....	3.2	3.0	Q	Q	Q	29.0
Natural Gas .....	0.9	0.9	Q	Q	Q	54.9
LPG/Other .....	Q	Q	Q	Q	Q	NF
Portable Space (heaters) .....	9.7	8.5	Q	Q	0.9	14.1
Electric .....	8.5	7.5	Q	Q	0.7	14.9
Kerosene .....	1.4	1.2	Q	Q	0.2	37.7

See footnotes at end of table.

**Table HC5-5a. Appliances by Type of Owner-Occupied Housing Unit,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total Owner- Occupied Units	Type of Owner-Occupied Housing Unit				RSE Row Factors
		Single-Family	Apartments in Buildings With		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.3	0.4	2.1	3.1	1.3	
Swimming Pool (heaters) .....	1.2	1.2	Q	Q	Q	55.8
Natural Gas .....	0.8	0.8	Q	Q	Q	69.1
Electric/LPG/Other .....	0.4	0.4	Q	Q	Q	85.0
Waterbed Heaters .....	4.5	4.0	Q	Q	0.4	21.8
1 .....	3.8	3.4	Q	Q	0.3	25.5
2 or More .....	0.7	0.6	Q	Q	Q	70.7
Used All Year .....	4.1	3.7	Q	Q	0.3	22.1
1 .....	3.5	3.2	Q	Q	0.3	24.2
2 or More .....	0.6	0.5	Q	Q	Q	77.4
<b>Other Appliances</b>						
Automobile Block/Engine/ Battery Heater .....	1.8	1.6	Q	Q	Q	47.1
Ceiling Fans .....	55.0	49.0	1.3	1.2	3.5	8.2
1 .....	14.2	11.3	0.4	0.8	1.7	13.3
2 .....	11.6	10.1	0.6	Q	0.9	14.8
3 or more .....	29.2	27.7	0.3	Q	0.9	11.6
Electric Dehumidifier .....	11.0	10.5	0.3	Q	Q	18.1
Electric Humidifier .....	12.5	11.5	0.3	Q	0.5	16.2
Evaporative/Swamp Cooler .....	2.1	1.6	Q	Q	0.4	50.1
Heated Aquarium .....	3.2	2.8	Q	Q	0.2	24.7
Outdoor Gas Light <sup>3</sup> .....	0.4	0.4	Q	Q	Q	80.6
Pumps (Electric) .....	19.6	18.2	Q	Q	1.2	15.7
Rechargeable Tools/Appliances ...	38.9	34.8	0.8	0.8	2.4	9.2
Swimming Pool (with filters) .....	6.4	6.4	Q	Q	Q	22.7
Well Water .....	12.4	11.2	Q	Q	1.2	20.7

<sup>1</sup> The number of households, where the end use is electric air-conditioning, does not include households that did not use their equipment (2.1 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

<sup>2</sup> The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

<sup>3</sup> Includes LPG and natural gas.

cf = Cubic feet.

NF = No applicable RSE row factor.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 2001 Residential Energy Consumption Survey.

**Table HC5-6a. Appliances by Type of Rented Housing Unit,  
Million U.S. Households, 2001**

Appliance Types and Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Apartments in Buildings With		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.8	1.1	0.9	2.5	
<b>Total</b> .....	34.3	10.5	7.4	15.2	1.1	6.9
<b>Kitchen Appliances</b>						
<b>Cooking Appliances</b>						
<b>Oven</b> .....	33.4	10.1	7.3	14.9	1.1	7.0
1 .....	32.3	9.6	7.0	14.6	1.1	7.1
2 or More .....	1.2	0.4	0.4	0.3	Q	29.5
<b>Most Used Oven</b> .....	33.4	10.1	7.3	14.9	1.1	7.0
Electric .....	19.1	4.9	4.0	9.6	0.6	9.7
Natural Gas .....	13.6	4.8	3.2	5.3	0.3	10.7
LPG .....	0.7	0.4	Q	Q	Q	37.4
Other .....	Q	Q	Q	Q	Q	NF
<b>Most Used Self-Cleaning Oven</b> .....	7.8	3.1	1.5	3.0	Q	14.9
Continuous .....	2.0	0.7	0.4	0.9	Q	32.5
Manual Start .....	5.8	2.4	1.1	2.1	Q	15.8
<b>Range</b> .....	33.8	10.4	7.3	15.0	1.1	7.1
1 .....	32.6	9.9	7.0	14.6	1.1	7.1
2 or More .....	1.2	0.4	0.4	0.4	Q	28.1
<b>Most Used Range</b> .....	33.8	10.4	7.3	15.0	1.1	7.1
Electric .....	19.4	5.0	4.0	9.7	0.6	9.9
Natural Gas .....	13.7	4.9	3.3	5.2	0.3	10.5
LPG .....	0.8	0.4	Q	Q	Q	31.5
Other .....	Q	Q	Q	Q	Q	NF
<b>Built-in/Stove-top Grill</b> .....	0.8	Q	0.2	0.4	Q	37.1
Electric .....	0.4	Q	Q	0.3	Q	49.1
Natural Gas .....	0.3	Q	Q	Q	Q	56.0
LPG .....	Q	Q	Q	Q	Q	NF
Other .....	Q	Q	Q	Q	Q	NF
<b>Refrigerators and Freezers</b>						
<b>Refrigerators</b> .....	34.1	10.5	7.4	15.2	1.1	6.9
1 .....	32.5	9.2	7.1	15.1	1.1	7.1
2 or More .....	1.6	1.2	0.3	Q	Q	23.7
<b>Most-Used Refrigerator</b>						
Defrost Method						
Frost-Free .....	28.5	9.1	5.8	12.7	0.9	7.4
Manual .....	5.6	1.3	1.6	2.4	0.2	15.1
<b>Type of Refrigerator</b>						
2-Doors (top and bottom) .....	28.5	8.0	6.1	13.5	0.9	7.6
2-Doors (side-by-side) .....	2.5	1.6	0.4	0.5	Q	23.4
Regular (single door) .....	2.6	0.7	0.8	0.9	Q	21.0
Half-Size/Other .....	0.6	Q	Q	0.3	Q	36.8

See footnotes at end of table.

**Table HC5-6a. Appliances by Type of Rented Housing Unit,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Apartments in Buildings With		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.8	1.1	0.9	2.5	
<b>Age of Refrigerator</b>						
Less than 2 Years .....	4.2	1.4	1.0	1.8	Q	15.8
2 to 4 Years .....	6.4	2.0	1.5	2.8	Q	15.5
5 to 9 Years .....	8.8	3.2	1.9	3.5	Q	10.9
10 to 19 Years .....	6.7	2.6	1.4	2.4	0.3	14.2
20 Years or More .....	2.6	0.6	0.6	1.2	Q	22.8
Don't Know .....	5.4	0.7	1.1	3.3	0.2	16.3
<b>Size of Refrigerator</b>						
Very Small (Less than 11 cf) ...	0.4	Q	Q	Q	Q	55.3
Small (11-14 cf) .....	3.3	0.5	0.5	2.1	Q	19.1
Medium (15-18 cf) .....	21.3	5.7	5.0	10.1	0.6	8.7
Large (19-22 cf) .....	8.7	4.1	1.7	2.6	0.3	11.9
Very Large (23 or More cf) .....	0.4	Q	Q	Q	Q	42.7
<b>Through-the-Door Ice/Water Service</b>						
Yes .....	1.4	1.1	Q	Q	Q	19.3
No .....	32.9	9.3	7.3	15.1	1.1	7.0
<b>Freezer (separate)</b>						
1 .....	4.1	2.7	0.7	0.6	Q	17.0
2 or more .....	3.8	2.6	0.6	0.6	Q	17.6
	0.2	Q	Q	Q	Q	60.7
<b>Most-Used Freezer</b>						
Defrost Method						
Frost-Free .....	1.4	0.9	0.4	0.2	Q	24.1
Manual .....	2.6	1.8	0.3	0.4	Q	20.9
<b>Type of Freezer</b>						
Upright .....	1.4	1.1	Q	0.2	Q	25.7
Chest .....	2.6	1.6	0.5	0.4	Q	20.1
<b>Age of Freezer</b>						
Less than 2 Years .....	0.6	0.3	0.2	Q	Q	37.8
2 to 4 Years .....	0.6	0.4	Q	Q	Q	29.0
5 to 9 Years .....	0.7	0.6	Q	Q	Q	31.0
10 to 19 Years .....	1.3	0.9	Q	0.3	Q	24.9
20 Years or More .....	0.6	0.4	Q	Q	Q	39.1
Don't Know .....	Q	Q	Q	Q	Q	NF
<b>Freezer Size</b>						
Very Small (Less than 11 cf) .....	0.5	0.2	Q	Q	Q	39.0
Small (11-14 cf) .....	1.0	0.6	Q	0.2	Q	31.5
Medium (15-18 cf) .....	1.4	0.9	0.3	Q	Q	23.8
Large (19-22 cf) .....	1.0	0.8	Q	Q	Q	21.8
Very Large (23 or More cf) .....	Q	Q	Q	Q	Q	NF
<b>Other Kitchen Appliances</b>						
Dishwasher .....	10.9	3.3	1.7	5.8	Q	12.6
Electric Coffee Makers .....	15.5	5.8	3.2	6.2	0.4	9.4
Electric Toaster Oven .....	9.9	3.3	1.7	4.7	0.2	13.2
Microwave Oven .....	26.5	8.7	5.9	11.0	0.9	7.8

See footnotes at end of table.

**Table HC5-6a. Appliances by Type of Rented Housing Unit,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Apartments in Buildings With		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.8	1.1	0.9	2.5	
<b>Households With Electric</b>						
<b>Air-Conditioning Equipment</b> .....	23.4	6.8	4.9	10.9	0.8	8.8
Air Conditioners Not Used .....	0.9	Q	Q	0.6	Q	29.4
<b>Households Using Electric</b>						
<b>Air-Conditioning</b> <sup>1</sup> .....	22.5	6.7	4.8	10.3	0.7	9.0
<b>Type of Electric Air-Conditioning</b>						
<b>Used</b>						
Central Air-Conditioning <sup>2</sup> .....	12.7	3.8	2.4	6.1	0.4	13.5
Without a Heat Pump .....	10.6	3.2	1.9	5.2	0.3	15.3
With a Heat Pump .....	2.2	0.6	0.6	0.9	Q	31.8
Room Air-Conditioning .....	9.8	2.9	2.4	4.2	0.3	11.9
1 Unit .....	6.5	1.6	1.6	3.2	Q	15.3
2 Units .....	2.7	1.1	0.6	0.9	Q	20.4
3 or More Units .....	0.6	0.2	Q	Q	Q	37.7
<b>Entertainment</b>						
<b>Color Television Sets</b> .....						
1 .....	33.6	10.3	7.3	14.9	1.1	6.9
2 .....	13.8	3.0	3.0	7.1	0.6	9.2
3 .....	12.6	3.9	2.7	5.7	0.3	9.9
4 .....	5.1	1.9	1.1	1.8	Q	13.9
5 or More .....	1.5	1.0	0.3	Q	Q	24.2
	0.6	0.5	Q	Q	Q	37.3
<b>Large Screen Television Sets</b> ....						
1 .....	9.2	3.2	2.1	3.6	0.3	11.8
2 .....	7.0	2.3	1.5	3.0	0.2	13.6
3 or More .....	1.9	0.7	0.5	0.6	Q	23.8
	0.3	Q	Q	Q	Q	61.8
<b>Cable/Satellite Dish Antennas</b> ...						
Cable Network .....	23.3	7.4	5.0	10.2	0.7	8.3
Satellite Dish Antenna .....	21.3	6.3	4.8	9.8	0.5	9.0
Both .....	1.8	1.0	Q	0.4	0.3	21.3
	Q	Q	Q	Q	Q	NF
<b>Video Cassette Recorders</b>						
<b>(VCRs) and DVD Players</b> .....	29.3	9.3	6.4	12.6	1.0	7.2
1 .....	18.9	5.3	4.0	8.9	0.7	8.3
2 .....	7.6	2.6	1.8	2.9	Q	11.9
3 or More .....	2.8	1.4	0.6	0.8	Q	21.8
<b>Stereo Equipment</b> .....						
Portable/Boom Box .....	24.7	7.9	5.5	10.4	0.8	8.4
Compact Stereo System .....	8.3	2.8	2.1	3.1	0.2	12.6
Component Stereo System .....	11.9	3.6	2.6	5.5	0.2	10.1
Other System .....	8.7	3.2	1.8	3.3	0.4	12.7
	0.9	0.4	0.4	Q	Q	33.3
<b>Clothes Washers and Dryers</b>						
<b>Clothes Washer</b> .....						
Top loading .....	15.3	8.6	2.8	3.2	0.7	10.5
Front loading .....	15.0	8.4	2.7	3.1	0.7	10.6
	0.3	Q	Q	Q	Q	60.2

See footnotes at end of table.

**Table HC5-6a. Appliances by Type of Rented Housing Unit,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Apartments in Buildings With		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.8	1.1	0.9	2.5	
<b>Clothes Dryer</b> .....	13.4	7.7	2.6	2.5	0.6	11.3
Electric .....	11.1	6.3	2.0	2.2	0.6	11.1
Natural Gas .....	2.2	1.4	0.5	Q	Q	27.5
LPG .....	Q	Q	Q	Q	Q	NF
<b>Water Heater Equipment</b>						
<b>Water Heaters</b> .....	34.3	10.5	7.4	15.2	1.1	6.9
Electric .....	13.9	3.8	2.7	6.5	0.9	10.5
For One Housing Unit .....	11.1	3.8	2.3	4.1	0.9	12.1
For Two or More Units .....	2.8	Q	0.4	2.4	Q	21.4
Natural Gas .....	18.3	6.2	4.5	7.5	Q	9.8
For One Housing Unit .....	12.0	5.9	2.9	3.0	Q	13.4
For Two or More Units .....	6.3	Q	1.6	4.5	Q	13.9
Fuel Oil .....	1.4	0.2	0.2	1.0	Q	23.6
For One Housing Unit .....	0.3	0.2	Q	Q	Q	35.2
For Two or More Units .....	1.1	Q	0.1	1.0	Q	28.7
LPG .....	0.4	0.3	Q	Q	Q	44.9
Other .....	Q	Q	Q	Q	Q	NF
No Water Heater .....	Q	Q	Q	Q	Q	NF
<b>Water Heater (for one housing unit)</b> .....	23.9	10.2	5.3	7.2	1.1	8.5
Age .....						
Less than 2 Years .....	2.3	1.2	0.6	0.4	Q	19.9
2 to 4 Years .....	3.4	1.8	0.6	0.8	Q	21.2
5 to 9 Years .....	4.8	2.3	1.0	1.4	Q	18.6
10 to 19 Years .....	3.6	1.8	0.8	0.8	0.2	18.6
20 Years or More .....	2.3	0.8	0.6	0.7	Q	25.1
Don't Know .....	6.8	2.1	1.6	2.6	0.5	13.2
No Separate Heater .....	0.7	Q	Q	0.6	Q	30.9
No Water Heater .....	Q	Q	Q	Q	Q	NF
Water Heaters for Two or More Units .....	10.4	0.3	2.1	8.0	Q	17.8
Size .....						
Small .....	4.3	1.4	0.9	1.7	0.2	16.9
Medium .....	12.3	5.8	2.7	3.2	0.6	10.7
Large .....	4.2	2.1	0.9	1.1	Q	18.8
Don't Know .....	2.2	0.8	0.6	0.6	Q	28.4
No Separate Heater .....	0.7	Q	Q	0.6	Q	30.9
No Water Heater .....	Q	Q	Q	Q	Q	NF
Water Heaters for Two or More Units .....	10.4	0.3	2.1	8.0	Q	17.8
<b>Heaters (other)</b> .....						
Hot Tub or Spa (heaters) .....	Q	Q	Q	Q	Q	NF
Electric .....	Q	Q	Q	Q	Q	NF
Natural Gas .....	Q	Q	Q	Q	Q	NF
LPG/Other .....	Q	Q	Q	Q	Q	NF
Portable Space (heaters) .....	3.7	1.9	1.0	0.8	Q	15.2
Electric .....	3.4	1.6	0.9	0.8	Q	16.7
Kerosene .....	0.4	0.3	Q	Q	Q	44.6

See footnotes at end of table.

**Table HC5-6a. Appliances by Type of Rented Housing Unit,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total Rented Units	Type of Rented Housing Unit				RSE Row Factors
		Single-Family	Apartments in Buildings With		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.8	1.1	0.9	2.5	
Swimming Pool (heaters) .....	Q	Q	Q	Q	Q	NF
Natural Gas .....	Q	Q	Q	Q	Q	NF
Electric/LPG/Other .....	Q	Q	Q	Q	Q	NF
Waterbed Heaters .....	1.1	0.6	0.3	Q	Q	27.7
1 .....	1.0	0.6	0.3	Q	Q	29.1
2 or More .....	Q	Q	Q	Q	Q	NF
Used All Year .....	0.9	0.5	0.3	Q	Q	30.1
1 .....	0.8	0.5	0.3	Q	Q	31.0
2 or More .....	Q	Q	Q	Q	Q	NF
<b>Other Appliances</b>						
Automobile Block/Engine/ Battery Heater .....	0.5	0.3	Q	0.1	Q	37.2
Ceiling Fans .....	14.7	6.1	3.2	4.9	0.5	10.7
1 .....	7.8	2.5	1.5	3.5	0.3	13.2
2 .....	3.5	1.6	0.9	0.8	Q	18.5
3 or more .....	3.4	2.1	0.7	0.6	Q	20.6
Electric Dehumidifier .....	1.1	0.6	0.3	Q	Q	28.3
Electric Humidifier .....	3.1	1.1	0.8	1.2	Q	18.3
Evaporative/Swamp Cooler .....	0.6	0.3	Q	Q	Q	41.4
Heated Aquarium .....	1.3	0.4	0.3	0.4	Q	27.7
Outdoor Gas Light <sup>3</sup> .....	Q	Q	Q	Q	Q	NF
Pumps (Electric) .....	1.6	1.3	Q	Q	Q	21.7
Rechargeable Tools/Appliances ...	8.8	4.0	1.8	2.9	Q	12.3
Swimming Pool (with filters) .....	Q	Q	Q	Q	Q	NF
Well Water .....	1.4	1.1	Q	Q	Q	22.2

<sup>1</sup> The number of households, where the end use is electric air-conditioning, does not include households that did not use their equipment (2.1 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

<sup>2</sup> The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

<sup>3</sup> Includes LPG and natural gas.

cf = Cubic feet.

NF = No applicable RSE row factor.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 2001 Residential Energy Consumption Survey.

**Table HC5-7a. Appliances by Four Most Populated States,  
Million U.S. Households, 2001**

Appliance Types and Characteristics	Total U.S.	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
		0.4	1.2	1.1	1.4	
<b>Total</b> .....	107.0	7.1	12.3	7.7	6.3	NE
<b>Kitchen Appliances</b>						
<b>Cooking Appliances</b>						
<b>Oven</b> .....	101.7	6.9	11.4	6.7	6.1	1.6
1 .....	95.2	6.2	10.7	6.3	6.0	2.1
2 or More .....	6.5	0.7	0.7	0.4	Q	17.4
<b>Most Used Oven</b> .....	101.7	6.9	11.4	6.7	6.1	1.6
Electric .....	63.0	2.5	4.5	4.4	5.4	3.9
Natural Gas .....	34.3	4.0	6.5	2.2	0.5	8.1
LPG .....	4.4	0.5	0.4	Q	0.2	29.5
Other .....	Q	Q	Q	Q	Q	NF
<b>Most Used Self-Cleaning Oven</b> .....	48.2	3.2	4.4	2.3	3.8	5.6
Continuous .....	11.2	0.7	0.9	0.6	0.7	19.7
Manual Start .....	37.0	2.5	3.6	1.7	3.1	8.3
<b>Range</b> .....	105.7	7.0	12.0	7.6	6.2	1.1
1 .....	100.5	6.4	11.6	7.5	6.2	1.0
2 or More .....	5.2	0.6	0.4	Q	Q	13.2
<b>Most Used Range</b> .....	105.7	7.0	12.0	7.6	6.2	1.1
Electric .....	64.2	2.5	4.6	4.7	5.6	4.9
Natural Gas .....	36.7	4.1	7.0	2.8	0.5	8.7
LPG .....	4.7	0.5	0.4	Q	0.2	29.8
Other .....	Q	Q	Q	Q	Q	NF
<b>Built-in/Stove-top Grill</b> .....	2.9	0.1	0.5	0.3	0.1	30.3
Electric .....	1.8	0.1	0.2	Q	0.1	32.2
Natural Gas .....	1.0	Q	0.2	0.1	Q	35.3
LPG .....	Q	Q	Q	Q	Q	NF
Other .....	Q	Q	Q	Q	Q	NF
<b>Refrigerators and Freezers</b>						
<b>Refrigerators</b> .....	106.8	7.1	12.3	7.7	6.3	NE
1 .....	88.7	6.1	10.5	6.5	5.6	1.6
2 or More .....	18.1	0.9	1.7	1.2	0.7	8.9
<b>Most-Used Refrigerator</b>						
Defrost Method						
Frost-Free .....	96.9	6.4	10.9	7.3	6.0	1.3
Manual .....	9.9	0.6	1.4	0.4	0.3	15.8
Type of Refrigerator						
2-Doors (top and bottom) .....	73.0	5.6	7.8	4.7	4.3	3.3
2-Doors (side-by-side) .....	27.1	0.9	3.6	2.4	1.6	9.4
Regular (single door) .....	5.7	0.5	0.6	0.4	0.4	13.3
Half-Size/Other .....	1.0	0.1	0.3	0.2	Q	33.1

See footnotes at end of table.



**Table HC5-7a. Appliances by Four Most Populated States,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total U.S.	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
		0.4	1.2	1.1	1.4	
<b>RSE Column Factor:</b>						
<b>Age of Refrigerator</b>						
Less than 2 Years .....	14.5	1.0	1.8	1.1	1.0	9.1
2 to 4 Years .....	20.7	1.7	2.5	1.4	1.0	11.1
5 to 9 Years .....	31.1	2.0	3.9	2.4	2.2	4.0
10 to 19 Years .....	26.7	1.5	2.8	1.6	1.5	9.4
20 Years or More .....	7.1	0.4	0.5	0.4	0.4	19.6
Don't Know .....	6.7	0.3	0.8	0.7	0.3	17.0
<b>Size of Refrigerator</b>						
Very Small (Less than 11 cf) .....	0.6	Q	0.2	Q	Q	40.1
Small (11-14 cf) .....	5.7	0.5	0.6	0.4	0.3	18.0
Medium (15-18 cf) .....	52.2	3.7	6.2	3.1	2.7	6.0
Large (19-22 cf) .....	43.0	2.5	4.5	3.5	2.9	6.2
Very Large (23 or More cf) .....	5.3	0.3	0.7	0.6	0.5	17.6
<b>Through-the-Door Ice/Water Service</b>						
Yes .....	22.1	0.5	2.8	2.1	1.6	9.3
No .....	84.9	6.5	9.6	5.6	4.7	2.3
<b>Freezer (separate) .....</b>						
1 .....	34.2	1.2	2.2	2.4	1.2	10.4
2 or more .....	30.8	1.0	2.1	2.1	1.1	9.5
3 or more .....	3.4	0.2	Q	0.3	Q	23.1
<b>Most-Used Freezer</b>						
<b>Defrost Method</b>						
Frost-Free .....	12.2	0.5	0.6	1.1	0.7	16.5
Manual .....	22.0	0.7	1.6	1.3	0.6	10.8
<b>Type of Freezer</b>						
Upright .....	17.8	0.7	1.6	1.5	0.7	10.9
Chest .....	16.5	0.5	0.6	1.0	0.5	17.7
<b>Age of Freezer</b>						
Less than 2 Years .....	3.1	0.1	0.2	0.4	Q	22.0
2 to 4 Years .....	4.6	0.1	0.2	0.2	0.1	24.7
5 to 9 Years .....	6.8	0.4	0.5	0.4	0.5	19.9
10 to 19 Years .....	11.7	0.4	0.8	1.0	0.4	16.5
20 Years or More .....	7.3	0.2	0.5	0.4	Q	20.1
Don't Know .....	0.6	Q	Q	Q	Q	44.2
<b>Freezer Size</b>						
Very Small (Less than 11 cf) .....	2.5	Q	0.2	0.1	Q	20.8
Small (11-14 cf) .....	8.2	0.3	0.4	0.6	0.4	14.4
Medium (15-18 cf) .....	13.3	0.3	0.8	0.8	0.6	17.9
Large (19-22 cf) .....	8.7	0.3	0.5	0.7	Q	15.2
Very Large (23 or More cf) .....	1.6	0.1	0.2	0.2	Q	31.8
<b>Other Kitchen Appliances</b>						
Dishwasher .....	56.7	2.8	6.8	4.7	3.6	5.6
Electric Coffee Makers .....	65.5	4.4	7.0	4.5	3.1	3.7
Electric Toaster Oven .....	36.1	3.4	4.5	3.1	2.4	6.4
Microwave Oven .....	92.1	5.2	10.0	6.7	5.4	3.0

See footnotes at end of table.

**Table HC5-7a. Appliances by Four Most Populated States,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total U.S.	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.2	1.1	1.4	1.3	
<b>Households With Electric Air-Conditioning Equipment</b>						
Air-Conditioning Equipment .....	82.9	4.9	6.0	7.4	6.2	2.4
Air Conditioners Not Used .....	2.1	0.1	0.8	Q	0.1	24.2
<b>Households Using Electric Air-Conditioning<sup>1</sup></b>						
Air-Conditioning <sup>1</sup> .....	80.8	4.7	5.2	7.4	6.1	2.6
<b>Type of Electric Air-Conditioning Used</b>						
Central Air-Conditioning <sup>2</sup> .....	57.5	1.3	3.9	6.2	5.7	6.7
Without a Heat Pump .....	46.2	1.2	3.2	5.5	3.8	8.1
With a Heat Pump .....	11.3	Q	0.8	0.6	1.9	15.0
Room Air-Conditioning .....	23.3	3.4	1.2	1.2	0.3	13.6
1 Unit .....	12.8	1.6	1.0	0.5	Q	12.2
2 Units .....	7.5	1.2	0.1	0.4	0.1	17.9
3 or More Units .....	3.0	0.7	Q	Q	Q	16.8
<b>Entertainment</b>						
<b>Color Television Sets</b>						
Color Television Sets .....	105.8	7.0	12.2	7.6	6.3	NE
1 .....	29.3	2.1	3.6	1.9	1.7	7.9
2 .....	38.4	3.0	4.4	2.8	2.2	4.7
3 .....	23.3	1.2	2.6	1.8	1.6	7.2
4 .....	10.2	0.4	1.2	0.8	0.5	10.0
5 or More .....	4.5	0.3	0.5	0.4	0.3	18.7
<b>Large Screen Television Sets</b>						
Large Screen Television Sets .....	36.6	2.6	4.3	2.9	2.8	8.2
1 .....	27.3	2.3	3.6	2.4	1.9	8.6
2 .....	7.9	0.3	0.7	0.5	0.9	17.3
3 or More .....	1.4	0.1	Q	Q	Q	39.3
<b>Cable/Satellite Dish Antennas</b>						
Cable/Satellite Dish Antennas .....	82.2	5.5	8.6	5.1	5.4	2.7
Cable Network .....	68.3	4.8	7.3	3.9	4.6	4.5
Satellite Dish Antenna .....	12.0	0.6	1.1	1.0	0.4	12.8
Both .....	1.9	Q	0.2	Q	0.4	24.5
<b>Video Cassette Recorders (VCRs) and DVD Players</b>						
Video Cassette Recorders (VCRs) and DVD Players .....	96.1	6.3	11.4	6.7	5.5	1.8
1 .....	52.3	3.8	6.7	3.4	3.2	5.3
2 .....	29.0	2.0	3.1	2.1	1.3	8.5
3 or More .....	14.7	0.5	1.7	1.2	1.0	11.5
<b>Stereo Equipment</b>						
Stereo Equipment .....	80.3	5.5	10.0	5.5	4.9	2.2
Portable/Boom Box .....	26.1	1.4	3.0	1.6	1.3	9.8
Compact Stereo System .....	36.5	3.0	4.5	2.7	2.2	5.3
Component Stereo System .....	36.3	2.4	4.5	2.2	2.3	5.2
Other System .....	3.1	0.2	0.3	0.1	0.2	25.6
<b>Clothes Washers and Dryers</b>						
<b>Clothes Washer</b>						
Clothes Washer .....	84.1	4.5	8.4	5.9	5.2	3.8
Top loading .....	81.6	4.4	8.1	5.7	5.1	4.1
Front loading .....	2.5	0.2	0.3	Q	Q	29.3

See footnotes at end of table.

**Table HC5-7a. Appliances by Four Most Populated States,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total U.S.	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
		0.4	1.2	1.1	1.4	
RSE Column Factor:	0.4	1.2	1.1	1.4	1.3	
<b>Clothes Dryer</b> .....	78.8	3.8	8.0	5.7	4.9	4.5
Electric .....	61.1	2.2	4.3	4.5	4.5	7.5
Natural Gas .....	16.9	1.6	3.7	1.1	Q	14.6
LPG .....	0.8	Q	Q	Q	Q	48.5
<b>Water Heater Equipment</b>						
<b>Water Heaters</b> .....	107.0	7.1	12.3	7.7	6.3	NE
Electric .....	40.8	0.9	1.8	3.0	5.1	8.4
For One Housing Unit .....	37.7	0.8	1.4	2.6	4.9	10.3
For Two or More Units .....	3.1	0.1	0.4	0.5	0.2	24.6
Natural Gas .....	58.0	4.4	9.9	4.5	1.2	5.5
For One Housing Unit .....	50.9	2.9	8.5	4.2	1.2	6.5
For Two or More Units .....	7.1	1.6	1.4	Q	Q	13.0
Fuel Oil .....	4.6	1.6	Q	Q	Q	19.7
For One Housing Unit .....	3.0	0.7	Q	Q	Q	23.1
For Two or More Units .....	1.6	0.9	Q	Q	Q	34.2
LPG .....	2.9	Q	0.4	Q	Q	30.0
Other .....	0.5	Q	Q	Q	Q	78.1
No Water Heater .....	Q	Q	Q	Q	Q	NF
<b>Water Heater (for one housing unit)</b> .....	95.0	4.5	10.4	6.8	6.1	3.4
Age						
Less than 2 Years .....	11.4	0.5	1.1	0.9	0.8	11.2
2 to 4 Years .....	17.3	0.9	1.7	1.2	0.7	11.4
5 to 9 Years .....	25.3	1.2	2.3	2.3	1.9	11.5
10 to 19 Years .....	21.7	0.6	2.5	1.3	1.7	12.3
20 Years or More .....	7.4	0.4	0.9	0.4	0.3	15.2
Don't Know .....	9.4	0.4	1.7	0.7	0.5	16.6
No Separate Heater .....	2.5	0.5	0.3	0.1	Q	22.0
No Water Heater .....	Q	Q	Q	Q	Q	NF
Water Heaters for						
Two or More Units .....	11.9	2.6	1.9	0.8	0.2	15.2
Size						
Small .....	12.2	0.7	1.0	0.9	1.2	13.6
Medium .....	49.4	2.1	5.9	3.3	3.3	5.7
Large .....	25.6	0.9	2.8	1.8	1.1	9.5
Don't Know .....	3.8	0.2	0.3	0.4	0.3	24.2
No Separate Heater .....	2.5	0.5	0.3	0.1	Q	22.0
No Water Heater .....	Q	Q	Q	Q	Q	NF
Water Heaters for						
Two or More Units .....	11.9	2.6	1.9	0.8	0.2	15.2
<b>Heaters (other)</b>						
Hot Tub or Spa (heaters) .....	4.4	0.2	0.9	0.6	Q	14.6
Electric .....	3.3	0.1	0.4	0.4	Q	19.1
Natural Gas .....	0.9	Q	0.3	0.1	Q	33.7
LPG/Other .....	0.2	Q	Q	Q	Q	NF
Portable Space (heaters) .....	13.4	1.0	1.6	1.2	0.3	12.1
Electric .....	11.9	0.8	1.5	1.1	0.3	13.3
Kerosene .....	1.8	0.1	Q	Q	Q	30.0

See footnotes at end of table.

**Table HC5-7a. Appliances by Four Most Populated States,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total U.S.	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
		0.4	1.2	1.1	1.4	
RSE Column Factor:	0.4	1.2	1.1	1.4	1.3	
Swimming Pool (heaters) .....	1.2	0.1	0.2	Q	Q	39.1
Natural Gas .....	0.8	Q	Q	Q	Q	57.7
Electric/LPG/Other .....	0.4	Q	Q	Q	Q	70.9
Waterbed Heaters .....	5.5	0.2	0.2	0.2	0.5	21.8
1 .....	4.8	0.2	0.2	0.2	0.5	24.9
2 or More .....	0.8	Q	Q	Q	Q	52.0
Used All Year .....	5.0	0.2	0.2	0.2	0.5	24.6
1 .....	4.3	0.1	0.2	0.1	0.4	26.2
2 or More .....	0.6	Q	Q	Q	Q	58.8
<b>Other Appliances</b>						
Automobile Block/Engine/ Battery Heater .....	2.3	0.1	0.1	Q	Q	30.2
Ceiling Fans .....	69.6	3.3	5.6	6.4	5.4	3.7
1 .....	22.0	1.7	2.6	1.3	0.8	11.3
2 .....	15.1	0.7	1.6	1.1	0.7	13.0
3 or more .....	32.6	1.0	1.5	4.0	3.9	9.8
Electric Dehumidifier .....	12.1	1.0	Q	0.2	Q	11.9
Electric Humidifier .....	15.6	1.2	0.4	0.4	Q	16.2
Evaporative/Swamp Cooler .....	2.7	Q	0.4	Q	Q	40.4
Heated Aquarium .....	4.5	0.2	0.3	0.4	0.2	23.8
Outdoor Gas Light <sup>3</sup> .....	0.5	0.2	0.1	Q	Q	23.1
Pumps (Electric) .....	21.2	1.0	1.6	1.0	2.1	12.8
Rechargeable Tools/Appliances .....	47.7	3.1	4.6	3.4	2.8	6.4
Swimming Pool (with filters) .....	6.5	0.3	0.7	0.3	1.0	17.1
Well Water .....	13.8	0.6	0.4	0.3	1.5	23.3

<sup>1</sup> The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (2.1 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

<sup>2</sup> The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

<sup>3</sup> Includes LPG and natural gas.

cf = Cubic feet.

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

NF = No applicable RSE row factor.

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

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

• 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 2001 Residential Energy Consumption Survey.

**Table HC5-8a. Appliances by Urban/Rural Location,  
Million U.S. Households, 2001**

Appliance Types and Characteristics	Total	Urban/Rural Location <sup>1</sup>				RSE Row Factors
		City	Town	Suburbs	Rural	
		0.5	0.9	1.4	1.2	
<b>Total</b> .....	107.0	49.9	18.0	21.2	17.9	4.1
<b>Kitchen Appliances</b>						
<b>Cooking Appliances</b>						
<b>Oven</b> .....	101.7	47.5	17.5	19.9	16.8	4.2
1 .....	95.2	44.9	16.3	18.3	15.6	4.4
2 or More .....	6.5	2.6	1.2	1.6	1.1	12.9
<b>Most Used Oven</b> .....	101.7	47.5	17.5	19.9	16.8	4.2
Electric .....	63.0	26.3	11.4	13.4	11.9	4.8
Natural Gas .....	34.3	20.8	5.4	6.3	1.9	7.2
LPG .....	4.4	0.4	0.7	0.2	3.0	18.1
Other .....	Q	Q	Q	Q	Q	NF
<b>Most Used Self-Cleaning Oven</b> .....	48.2	18.6	8.6	12.2	8.7	5.0
Continuous .....	11.2	4.9	1.5	2.9	2.0	12.1
Manual Start .....	37.0	13.7	7.2	9.4	6.7	5.5
<b>Range</b> .....	105.7	49.1	17.8	21.0	17.7	4.1
1 .....	100.5	46.7	16.9	20.2	16.8	4.3
2 or More .....	5.2	2.5	0.9	0.8	1.0	14.4
<b>Most Used Range</b> .....	105.7	49.1	17.8	21.0	17.7	4.1
Electric .....	64.2	27.0	11.3	13.5	12.4	4.8
Natural Gas .....	36.7	21.7	5.7	7.3	2.0	7.1
LPG .....	4.7	0.4	0.7	0.3	3.4	18.1
Other .....	Q	Q	Q	Q	Q	NF
<b>Built-in/Stove-top Grill</b> .....	2.9	1.2	0.3	0.9	0.5	20.5
Electric .....	1.8	0.6	0.2	0.7	0.3	25.5
Natural Gas .....	1.0	0.5	0.1	0.2	Q	28.8
LPG .....	Q	Q	Q	Q	Q	NF
Other .....	Q	Q	Q	Q	Q	NF
<b>Refrigerators and Freezers</b>						
<b>Refrigerators</b> .....	106.8	49.7	18.0	21.2	17.9	4.1
1 .....	88.7	43.2	14.9	16.8	13.8	4.5
2 or More .....	18.1	6.5	3.1	4.4	4.0	6.7
<b>Most-Used Refrigerator</b>						
Defrost Method						
Frost-Free .....	96.9	44.0	16.6	20.2	16.1	4.2
Manual .....	9.9	5.7	1.4	1.0	1.8	11.5
Type of Refrigerator						
2-Doors (top and bottom) .....	73.0	35.1	12.8	13.6	11.6	4.0
2-Doors (side-by-side) .....	27.1	11.0	4.1	6.9	5.0	6.7
Regular (single door) .....	5.7	3.1	1.0	0.6	1.0	13.4
Half-Size/Other .....	1.0	0.7	Q	Q	0.2	23.9

See footnotes at end of table.

**Table HC5-8a. Appliances by Urban/Rural Location,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total	Urban/Rural Location <sup>1</sup>				RSE Row Factors
		City	Town	Suburbs	Rural	
		0.5	0.9	1.4	1.2	
<b>Age of Refrigerator</b>						
Less than 2 Years .....	14.5	7.2	2.3	2.5	2.4	7.7
2 to 4 Years .....	20.7	9.9	2.8	4.6	3.4	8.1
5 to 9 Years .....	31.1	14.1	5.3	6.6	5.1	5.5
10 to 19 Years .....	26.7	11.0	5.1	5.5	5.1	6.4
20 Years or More .....	7.1	3.3	1.4	1.1	1.3	12.2
Don't Know .....	6.7	4.2	1.1	1.0	0.5	15.2
<b>Size of Refrigerator</b>						
Very Small (Less than 11 cf) .....	0.6	0.4	Q	Q	Q	37.3
Small (11-14 cf) .....	5.7	3.4	0.9	0.5	0.8	14.2
Medium (15-18 cf) .....	52.2	24.7	9.5	9.2	8.8	5.0
Large (19-22 cf) .....	43.0	19.1	6.8	9.8	7.3	5.2
Very Large (23 or More cf) .....	5.3	2.1	0.6	1.7	0.8	14.1
<b>Through-the-Door Ice/Water Service</b>						
Yes .....	22.1	8.7	3.1	6.0	4.3	7.2
No .....	84.9	41.1	15.0	15.2	13.6	4.3
<b>Freezer (separate) .....</b>						
1 .....	34.2	11.5	6.8	6.4	9.6	6.5
2 or more .....	30.8	10.7	6.1	5.9	8.1	6.3
3 or more .....	3.4	0.8	0.7	0.4	1.5	17.4
<b>Most-Used Freezer</b>						
Defrost Method						
Frost-Free .....	12.2	4.4	1.9	2.7	3.1	9.2
Manual .....	22.0	7.1	4.8	3.7	6.5	7.8
<b>Type of Freezer</b>						
Upright .....	17.8	5.8	3.5	4.1	4.4	8.1
Chest .....	16.5	5.8	3.2	2.3	5.2	8.3
<b>Age of Freezer</b>						
Less than 2 Years .....	3.1	1.1	0.6	0.5	1.0	15.6
2 to 4 Years .....	4.6	1.4	0.7	1.0	1.5	12.3
5 to 9 Years .....	6.8	2.3	1.3	1.2	2.0	11.6
10 to 19 Years .....	11.7	4.1	2.2	2.3	3.0	10.1
20 Years or More .....	7.3	2.3	1.9	1.2	2.0	11.4
Don't Know .....	0.6	0.3	Q	Q	0.2	32.4
<b>Freezer Size</b>						
Very Small (Less than 11 cf) .....	2.5	1.0	0.4	0.6	0.5	17.6
Small (11-14 cf) .....	8.2	3.0	1.6	1.6	1.9	10.2
Medium (15-18 cf) .....	13.3	4.4	2.6	2.3	4.0	8.4
Large (19-22 cf) .....	8.7	2.5	1.9	1.6	2.8	11.1
Very Large (23 or More cf) .....	1.6	0.5	0.3	0.2	0.5	23.5
<b>Other Kitchen Appliances</b>						
Dishwasher .....	56.7	22.7	8.6	15.7	9.6	4.7
Electric Coffee Makers .....	65.5	27.2	11.4	14.5	12.4	4.3
Electric Toaster Oven .....	36.1	17.4	6.1	7.1	5.5	6.1
Microwave Oven .....	92.1	41.0	15.9	18.9	16.4	3.8

See footnotes at end of table.

**Table HC5-8a. Appliances by Urban/Rural Location,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total	Urban/Rural Location <sup>1</sup>				RSE Row Factors
		City	Town	Suburbs	Rural	
		0.9	1.4	1.2	1.3	
RSE Column Factor:	0.5	0.9	1.4	1.2	1.3	
<b>Households With Electric</b>						
<b>Air-Conditioning Equipment</b> .....	82.9	36.8	13.6	18.9	13.6	4.3
Air Conditioners Not Used .....	2.1	1.2	0.2	0.4	0.3	21.4
<b>Households Using Electric</b>						
<b>Air-Conditioning<sup>2</sup></b> .....	80.8	35.6	13.4	18.6	13.3	4.3
<b>Type of Electric Air-Conditioning Used</b>						
Central Air-Conditioning <sup>3</sup> .....	57.5	23.6	8.6	15.8	9.4	5.1
Without a Heat Pump .....	46.2	19.3	7.4	13.1	6.4	6.3
With a Heat Pump .....	11.3	4.4	1.2	2.8	2.9	13.1
Room Air-Conditioning .....	23.3	12.0	4.8	2.7	3.9	7.4
1 Unit .....	12.8	6.8	2.6	1.3	2.1	9.9
2 Units .....	7.5	3.4	1.7	1.0	1.4	10.3
3 or More Units .....	3.0	1.7	0.5	0.4	0.4	16.8
<b>Entertainment</b>						
<b>Color Television Sets</b> .....	105.8	49.5	17.7	21.0	17.7	4.1
1 .....	29.3	14.9	5.2	4.0	5.3	6.5
2 .....	38.4	18.3	6.5	7.6	6.1	4.7
3 .....	23.3	10.3	3.7	5.4	3.9	6.5
4 .....	10.2	4.1	1.6	2.8	1.7	9.9
5 or More .....	4.5	2.0	0.7	1.2	0.6	12.5
<b>Large Screen Television Sets</b> .....	36.6	16.6	6.4	7.4	6.2	6.3
1 .....	27.3	12.6	4.7	5.3	4.7	6.8
2 .....	7.9	3.4	1.3	1.8	1.3	11.7
3 or More .....	1.4	0.6	0.4	0.2	Q	30.3
<b>Cable/Satellite Dish Antennas</b> .....	82.2	37.2	14.8	17.2	13.0	4.1
Cable Network .....	68.3	33.3	12.8	15.3	6.9	4.7
Satellite Dish Antenna .....	12.0	3.1	1.6	1.5	5.8	9.9
Both .....	1.9	0.7	0.4	0.4	0.3	22.1
<b>Video Cassette Recorders (VCRs) and DVD Players</b> .....	96.1	44.9	15.5	19.5	16.0	4.2
1 .....	52.3	25.8	8.4	9.1	9.0	4.8
2 .....	29.0	13.0	4.8	6.5	4.7	6.3
3 or More .....	14.7	6.1	2.3	3.9	2.4	8.3
<b>Stereo Equipment</b> .....	80.3	36.9	13.3	16.8	13.3	3.8
Portable/Boom Box .....	26.1	12.2	4.5	5.7	3.8	6.6
Compact Stereo System .....	36.5	17.3	5.9	7.6	5.8	5.6
Component Stereo System .....	36.3	15.6	5.9	8.9	5.9	5.8
Other System .....	3.1	1.5	0.4	0.5	0.6	16.6
<b>Clothes Washers and Dryers</b>						
<b>Clothes Washer</b> .....	84.1	34.5	14.6	18.6	16.4	4.0
Top loading .....	81.6	33.6	14.1	18.0	16.0	4.1
Front loading .....	2.5	0.9	0.5	0.6	0.5	18.8

See footnotes at end of table.

**Table HC5-8a. Appliances by Urban/Rural Location,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total	Urban/Rural Location <sup>1</sup>				RSE Row Factors
		City	Town	Suburbs	Rural	
		0.9	1.4	1.2	1.3	
RSE Column Factor:	0.5	0.9	1.4	1.2	1.3	
<b>Clothes Dryer</b> .....	78.8	31.4	13.7	18.1	15.6	4.2
Electric .....	61.1	23.1	10.9	13.1	14.0	5.2
Natural Gas .....	16.9	8.3	2.7	4.9	1.0	10.3
LPG .....	0.8	Q	0.1	Q	0.7	26.7
<b>Water Heater Equipment</b>						
<b>Water Heaters</b> .....	107.0	49.9	18.0	21.2	17.9	4.1
Electric .....	40.8	15.3	6.9	7.0	11.6	6.6
For One Housing Unit .....	37.7	13.0	6.6	6.6	11.5	7.1
For Two or More Units .....	3.1	2.3	0.3	0.4	Q	24.0
Natural Gas .....	58.0	32.5	9.4	13.0	3.1	5.9
For One Housing Unit .....	50.9	27.2	8.6	12.1	3.0	6.3
For Two or More Units .....	7.1	5.3	0.9	0.9	Q	15.6
Fuel Oil .....	4.6	1.5	1.1	1.0	1.0	16.5
For One Housing Unit .....	3.0	0.5	0.8	0.8	0.9	16.6
For Two or More Units .....	1.6	1.0	0.3	Q	Q	28.7
LPG .....	2.9	0.2	0.5	0.1	2.1	24.0
Other .....	0.5	Q	Q	0.1	Q	49.8
No Water Heater .....	Q	Q	Q	Q	Q	NF
<b>Water Heater (for one housing unit)</b> .....	95.0	41.1	16.6	19.7	17.6	4.4
Age .....						
Less than 2 Years .....	11.4	4.4	2.1	2.4	2.5	9.2
2 to 4 Years .....	17.3	7.3	2.6	3.6	3.9	8.4
5 to 9 Years .....	25.3	11.0	4.2	5.9	4.3	6.8
10 to 19 Years .....	21.7	8.7	4.3	4.7	4.0	7.5
20 Years or More .....	7.4	3.5	1.4	1.1	1.5	12.7
Don't Know .....	9.4	5.5	1.5	1.5	1.0	11.0
No Separate Heater .....	2.5	0.8	0.5	0.7	0.6	20.0
No Water Heater .....	Q	Q	Q	Q	Q	NF
Water Heaters for Two or More Units .....	11.9	8.7	1.5	1.5	0.2	14.9
Size .....						
Small .....	12.2	5.6	2.5	1.9	2.3	9.9
Medium .....	49.4	22.6	8.4	9.8	8.6	5.1
Large .....	25.6	9.7	4.4	6.1	5.4	7.5
Don't Know .....	3.8	1.8	0.7	0.9	0.5	19.0
No Separate Heater .....	2.5	0.8	0.5	0.7	0.6	20.0
No Water Heater .....	Q	Q	Q	Q	Q	NF
Water Heaters for Two or More Units .....	11.9	8.7	1.5	1.5	0.2	14.9
<b>Heaters (other)</b> .....	4.4	1.6	0.6	1.2	1.0	14.8
Hot Tub or Spa (heaters) .....	3.3	1.1	0.4	0.8	1.0	17.2
Electric .....	0.9	0.5	0.1	0.3	Q	28.0
Natural Gas .....	0.2	Q	Q	Q	Q	NF
LPG/Other .....	13.4	5.4	3.1	2.6	2.4	8.0
Portable Space (heaters) .....	11.9	5.1	2.8	2.3	1.7	8.5
Electric .....	1.8	0.4	0.3	0.3	0.7	22.9
Kerosene .....						

See footnotes at end of table.



**Table HC5-8a. Appliances by Urban/Rural Location,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Urban/Rural Location <sup>1</sup>					RSE Row Factors
	Total	City	Town	Suburbs	Rural	
	0.5	0.9	1.4	1.2	1.3	
RSE Column Factor:	0.5	0.9	1.4	1.2	1.3	
Swimming Pool (heaters) .....	1.2	0.3	0.3	0.5	0.1	32.7
Natural Gas .....	0.8	0.3	0.2	0.3	Q	40.8
Electric/LPG/Other .....	0.4	Q	Q	0.2	0.1	41.6
Waterbed Heaters .....	5.5	1.9	1.1	1.2	1.3	12.1
1 .....	4.8	1.7	0.9	0.9	1.2	13.3
2 or More .....	0.8	0.2	0.2	0.3	0.1	35.3
Used All Year .....	5.0	1.6	1.0	1.1	1.2	12.7
1 .....	4.3	1.4	0.9	0.9	1.1	13.6
2 or More .....	0.6	0.2	0.2	0.2	0.1	38.9
<b>Other Appliances</b>						
Automobile Block/Engine/ Battery Heater .....	2.3	0.9	0.5	Q	0.9	21.4
Ceiling Fans .....	69.6	29.3	11.5	15.4	13.5	4.5
1 .....	22.0	9.2	4.0	4.6	4.2	7.2
2 .....	15.1	7.1	2.3	2.8	2.8	8.4
3 or more .....	32.6	12.9	5.1	8.0	6.5	6.9
Electric Dehumidifier .....	12.1	4.3	2.1	3.2	2.5	11.5
Electric Humidifier .....	15.6	6.1	3.1	4.0	2.4	10.3
Evaporative/Swamp Cooler .....	2.7	1.4	0.7	0.2	0.3	26.4
Heated Aquarium .....	4.5	2.0	0.6	1.0	0.9	13.5
Outdoor Gas Light <sup>4</sup> .....	0.5	0.3	Q	Q	Q	25.3
Pumps (Electric) .....	21.2	4.0	2.7	4.1	10.4	9.9
Rechargeable Tools/Appliances .....	47.7	18.7	8.0	11.5	9.4	5.5
Swimming Pool (with filters) .....	6.5	1.8	1.1	2.0	1.6	12.4
Well Water .....	13.8	1.2	1.5	1.9	9.3	14.9

<sup>1</sup> Based on the household respondent's description rather than the Federal Government definition.

<sup>2</sup> The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (2.1 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

<sup>3</sup> The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

<sup>4</sup> Includes LPG and natural gas.

cf = Cubic feet.

NF = No applicable RSE row factor.

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

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 2001 Residential Energy Consumption Survey.

**Table HC5-9a. Appliances by Northeast Census Region,  
Million U.S. Households, 2001**

Appliance Types and Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.3	1.6	
<b>Total</b> .....	107.0	20.3	14.8	5.4	NE
<b>Kitchen Appliances</b>					
<b>Cooking Appliances</b>					
<b>Oven</b> .....	101.7	19.6	14.5	5.2	1.1
1 .....	95.2	18.2	13.3	4.9	1.1
2 or More .....	6.5	1.4	1.1	0.3	11.7
<b>Most Used Oven</b> .....	101.7	19.6	14.5	5.2	1.1
Electric .....	63.0	9.9	6.6	3.3	5.8
Natural Gas .....	34.3	8.6	7.1	1.5	9.5
LPG .....	4.4	1.1	0.7	0.4	18.1
Other .....	Q	Q	Q	Q	NF
<b>Most Used Self-Cleaning Oven</b> .....	48.2	10.2	7.2	3.0	4.2
Continuous .....	11.2	2.4	1.9	0.5	18.2
Manual Start .....	37.0	7.8	5.3	2.5	5.6
<b>Range</b> .....	105.7	20.1	14.7	5.4	NE
1 .....	100.5	18.9	13.6	5.2	0.9
2 or More .....	5.2	1.3	1.1	0.2	11.8
<b>Most Used Range</b> .....	105.7	20.1	14.7	5.4	NE
Electric .....	64.2	10.0	6.6	3.3	5.7
Natural Gas .....	36.7	8.9	7.4	1.5	9.1
LPG .....	4.7	1.2	0.7	0.5	18.3
Other .....	Q	Q	Q	Q	NF
<b>Built-in/Stove-top Grill</b> .....	2.9	0.3	0.3	Q	24.1
Electric .....	1.8	Q	Q	Q	32.7
Natural Gas .....	1.0	Q	Q	Q	36.5
LPG .....	Q	Q	Q	Q	NF
Other .....	Q	Q	Q	Q	NF
<b>Refrigerators and Freezers</b>					
<b>Refrigerators</b> .....	106.8	20.2	14.8	5.4	NE
1 .....	88.7	16.7	12.2	4.6	1.5
2 or More .....	18.1	3.5	2.6	0.8	7.3
<b>Most-Used Refrigerator</b>					
Defrost Method					
Frost-Free .....	96.9	18.3	13.4	4.9	1.4
Manual .....	9.9	1.9	1.4	0.5	12.8
<b>Type of Refrigerator</b>					
2-Doors (top and bottom) .....	73.0	15.7	11.4	4.2	2.0
2-Doors (side-by-side) .....	27.1	3.3	2.5	0.9	6.7
Regular (single door) .....	5.7	1.0	0.8	0.2	10.7
Half-Size/Other .....	1.0	Q	Q	Q	32.0

See footnotes at end of table.

**Table HC5-9a. Appliances by Northeast Census Region,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.3	1.6	
<b>Age of Refrigerator</b>					
Less than 2 Years .....	14.5	2.5	2.0	0.5	9.1
2 to 4 Years .....	20.7	3.9	3.1	0.8	8.0
5 to 9 Years .....	31.1	5.6	4.0	1.6	4.1
10 to 19 Years .....	26.7	5.7	4.2	1.5	5.5
20 Years or More .....	7.1	1.2	0.8	0.4	9.9
Don't Know .....	6.7	1.4	0.8	0.5	15.9
<b>Size of Refrigerator</b>					
Very Small (Less than 11 cf) .....	0.6	Q	Q	Q	46.9
Small (11-14 cf) .....	5.7	1.0	0.7	0.4	17.0
Medium (15-18 cf) .....	52.2	9.9	7.0	2.9	4.8
Large (19-22 cf) .....	43.0	8.4	6.5	1.9	5.5
Very Large (23 or More cf) .....	5.3	0.8	0.6	0.1	18.8
<b>Through-the-Door Ice/Water Service</b>					
Yes .....	22.1	2.3	1.7	0.6	9.1
No .....	84.9	18.0	13.2	4.8	1.2
<b>Freezer (separate)</b>					
1 .....	34.2	4.9	3.7	1.2	9.2
2 or more .....	30.8	4.5	3.4	1.1	8.9
	3.4	0.4	0.3	Q	22.6
<b>Most-Used Freezer</b>					
Defrost Method					
Frost-Free .....	12.2	1.8	1.2	0.5	12.4
Manual .....	22.0	3.1	2.4	0.7	11.0
<b>Type of Freezer</b>					
Upright .....	17.8	3.0	2.2	0.8	10.6
Chest .....	16.5	1.9	1.5	0.4	12.7
<b>Age of Freezer</b>					
Less than 2 Years .....	3.1	0.3	0.2	Q	23.0
2 to 4 Years .....	4.6	0.5	0.3	0.1	17.4
5 to 9 Years .....	6.8	1.0	0.8	0.2	13.9
10 to 19 Years .....	11.7	2.1	1.6	0.5	14.2
20 Years or More .....	7.3	1.0	0.7	0.3	11.4
Don't Know .....	0.6	Q	Q	Q	38.4
<b>Freezer Size</b>					
Very Small (Less than 11 cf) .....	2.5	0.3	Q	Q	24.6
Small (11-14 cf) .....	8.2	1.1	0.9	0.2	12.1
Medium (15-18 cf) .....	13.3	2.0	1.5	0.5	12.2
Large (19-22 cf) .....	8.7	1.3	1.0	0.3	14.2
Very Large (23 or More cf) .....	1.6	Q	Q	Q	29.3
<b>Other Kitchen Appliances</b>					
Dishwasher .....	56.7	9.2	6.5	2.7	4.0
Electric Coffee Makers .....	65.5	12.4	8.8	3.6	3.2
Electric Toaster Oven .....	36.1	8.5	6.3	2.2	6.1
Microwave Oven .....	92.1	15.2	11.3	4.0	3.5

See footnotes at end of table.

**Table HC5-9a. Appliances by Northeast Census Region,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.3	1.6	
<b>Households With Electric</b>					
<b>Air-Conditioning Equipment</b> .....	82.9	14.5	11.3	3.2	3.3
Air Conditioners Not Used .....	2.1	0.3	0.3	Q	27.3
<b>Households Using Electric</b>					
<b>Air-Conditioning</b> <sup>1</sup> .....	80.8	14.2	11.1	3.2	3.4
<b>Type of Electric Air-Conditioning Used</b>					
Central Air-Conditioning <sup>2</sup> .....	57.5	5.7	4.9	0.8	8.9
Without a Heat Pump .....	46.2	5.2	4.5	0.7	9.2
With a Heat Pump .....	11.3	0.4	0.4	Q	25.1
Room Air-Conditioning .....	23.3	8.5	6.1	2.4	5.6
1 Unit .....	12.8	4.4	2.9	1.4	8.5
2 Units .....	7.5	2.8	2.1	0.7	7.4
3 or More Units .....	3.0	1.3	1.1	0.3	13.2
<b>Entertainment</b>					
<b>Color Television Sets</b> .....	105.8	20.0	14.7	5.4	NE
1 .....	29.3	5.8	4.1	1.8	4.8
2 .....	38.4	8.1	6.2	1.9	3.5
3 .....	23.3	3.8	2.7	1.1	5.2
4 .....	10.2	1.6	1.2	0.4	11.4
5 or More .....	4.5	0.7	0.5	0.1	10.8
<b>Large Screen Television Sets</b> .....	36.6	7.1	5.0	2.1	8.7
1 .....	27.3	5.3	3.6	1.7	8.4
2 .....	7.9	1.4	0.9	0.5	15.5
3 or More .....	1.4	Q	Q	Q	51.4
<b>Cable/Satellite Dish Antennas</b> .....	82.2	16.3	11.8	4.6	1.8
Cable Network .....	68.3	14.4	10.4	4.0	2.7
Satellite Dish Antenna .....	12.0	1.7	1.2	0.4	12.2
Both .....	1.9	0.2	Q	Q	35.2
<b>Video Cassette Recorders</b>					
<b>(VCRs) and DVD Players</b> .....	96.1	18.0	13.3	4.8	1.4
1 .....	52.3	10.5	8.0	2.5	3.6
2 .....	29.0	5.5	3.9	1.6	7.0
3 or More .....	14.7	2.0	1.4	0.7	8.3
<b>Stereo Equipment</b> .....					
Portable/Boom Box .....	80.3	15.1	10.7	4.4	2.3
Compact Stereo System .....	26.1	4.4	2.7	1.7	9.7
Component Stereo System .....	36.5	6.8	4.9	1.9	5.4
Other System .....	36.3	6.8	5.0	1.7	5.6
3.1	0.5	0.3	0.2	20.0	
<b>Clothes Washers and Dryers</b>					
<b>Clothes Washer</b> .....	84.1	14.7	10.7	4.0	2.8
Top loading .....	81.6	14.2	10.3	3.9	3.0
Front loading .....	2.5	0.5	0.4	Q	27.3

See footnotes at end of table.

**Table HC5-9a. Appliances by Northeast Census Region,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.3	1.6	
<b>Clothes Dryer</b> .....	78.8	13.3	9.6	3.7	3.1
Electric .....	61.1	9.2	6.0	3.1	7.4
Natural Gas .....	16.9	4.0	3.5	0.5	17.9
LPG .....	0.8	0.1	Q	Q	40.7
<b>Water Heater Equipment</b>					
<b>Water Heaters</b> .....	107.0	20.3	14.8	5.4	NE
Electric .....	40.8	4.7	3.2	1.4	9.9
For One Housing Unit .....	37.7	4.1	2.9	1.2	10.6
For Two or More Units .....	3.1	0.5	0.3	0.2	22.1
Natural Gas .....	58.0	10.8	8.9	1.9	8.7
For One Housing Unit .....	50.9	8.1	6.6	1.5	11.0
For Two or More Units .....	7.1	2.6	2.3	0.4	14.7
Fuel Oil .....	4.6	4.4	2.5	1.8	13.7
For One Housing Unit .....	3.0	2.9	1.3	1.5	17.5
For Two or More Units .....	1.6	1.5	1.2	0.3	23.4
LPG .....	2.9	0.3	Q	0.2	25.0
Other .....	0.5	Q	Q	Q	67.9
No Water Heater .....	Q	Q	Q	Q	NF
<b>Water Heater (for one housing unit)</b> .....	95.0	15.6	11.1	4.5	2.7
Age					
Less than 2 Years .....	11.4	1.7	1.2	0.6	7.0
2 to 4 Years .....	17.3	2.7	2.1	0.6	9.2
5 to 9 Years .....	25.3	3.8	2.9	0.9	9.6
10 to 19 Years .....	21.7	3.1	2.4	0.7	8.4
20 Years or More .....	7.4	1.1	0.7	0.4	13.0
Don't Know .....	9.4	1.4	1.0	0.4	11.9
No Separate Heater .....	2.5	1.6	0.7	0.9	19.3
No Water Heater .....	Q	Q	Q	Q	NF
Water Heaters for					
Two or More Units .....	11.9	4.6	3.8	0.9	11.5
Size					
Small .....	12.2	1.8	1.2	0.6	10.6
Medium .....	49.4	7.0	5.2	1.8	6.1
Large .....	25.6	4.0	3.2	0.9	11.0
Don't Know .....	3.8	0.9	0.6	0.3	23.7
No Separate Heater .....	2.5	1.6	0.7	0.9	19.3
No Water Heater .....	Q	Q	Q	Q	NF
Water Heaters for					
Two or More Units .....	11.9	4.6	3.8	0.9	11.5
<b>Heaters (other)</b>					
Hot Tub or Spa (heaters) .....	4.4	0.9	0.7	0.2	18.8
Electric .....	3.3	0.8	0.6	0.2	18.9
Natural Gas .....	0.9	Q	Q	Q	39.1
LPG/Other .....	Q	Q	Q	Q	NF
Portable Space (heaters) .....	13.4	2.4	1.7	0.7	9.6
Electric .....	11.9	2.1	1.5	0.6	10.0
Kerosene .....	1.8	0.3	0.2	Q	28.7

See footnotes at end of table.

**Table HC5-9a. Appliances by Northeast Census Region,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.3	1.6	
Swimming Pool (heaters) .....	1.2	0.2	Q	Q	32.9
Natural Gas .....	0.8	Q	Q	Q	50.1
Electric/LPG/Other .....	0.4	Q	Q	Q	61.6
Waterbed Heaters .....	5.5	0.8	0.6	0.2	18.2
1 .....	4.8	0.6	0.5	0.2	20.3
2 or More .....	0.8	Q	Q	Q	45.2
Used All Year .....	5.0	0.7	0.5	0.2	20.0
1 .....	4.3	0.6	0.4	0.1	22.5
2 or More .....	0.6	Q	Q	Q	51.1
<b>Other Appliances</b>					
Automobile Block/Engine/ Battery Heater .....	2.3	0.2	Q	Q	27.4
Ceiling Fans .....	69.6	9.8	7.4	2.4	3.1
1 .....	22.0	4.4	3.3	1.1	5.2
2 .....	15.1	2.1	1.5	0.6	9.0
3 or more .....	32.6	3.3	2.6	0.7	6.0
Electric Dehumidifier .....	12.1	3.7	2.7	1.0	12.2
Electric Humidifier .....	15.6	3.7	2.8	0.9	9.0
Evaporative/Swamp Cooler .....	2.7	Q	Q	Q	38.5
Heated Aquarium .....	4.5	0.6	0.5	Q	16.1
Outdoor Gas Light <sup>3</sup> .....	0.5	Q	Q	Q	36.0
Pumps (Electric) .....	21.2	4.7	3.1	1.6	11.8
Rechargeable Tools/Appliances .....	47.7	9.0	6.5	2.5	6.6
Swimming Pool (with filters) .....	6.5	1.4	1.0	0.4	12.9
Well Water .....	13.8	3.4	2.1	1.3	16.0

<sup>1</sup> The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (2.1 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

<sup>2</sup> The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

<sup>3</sup> Includes LPG and natural gas.

cf = Cubic feet.

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

NF = No applicable RSE row factor.

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

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

• 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 2001 Residential Energy Consumption Survey.

**Table HC5-10a. Appliances by Midwest Census Region,  
Million U.S. Households, 2001**

Appliance Types and Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.5	
<b>Total</b> .....	107.0	24.5	17.1	7.4	NE
<b>Kitchen Appliances</b>					
<b>Cooking Appliances</b>					
<b>Oven</b> .....	101.7	23.8	16.6	7.2	NE
1 .....	95.2	22.3	15.5	6.8	0.8
2 or More .....	6.5	1.6	1.1	0.4	11.8
<b>Most Used Oven</b> .....	101.7	23.8	16.6	7.2	NE
Electric .....	63.0	14.0	9.5	4.5	4.1
Natural Gas .....	34.3	8.7	6.7	2.0	6.9
LPG .....	4.4	1.1	0.5	0.6	25.1
Other .....	Q	Q	Q	Q	NF
<b>Most Used Self-Cleaning Oven</b> .....	48.2	12.3	8.7	3.6	3.5
Continuous .....	11.2	3.1	2.2	0.9	12.7
Manual Start .....	37.0	9.2	6.5	2.7	4.0
<b>Range</b> .....	105.7	24.1	16.8	7.4	NE
1 .....	100.5	22.9	15.9	7.0	0.8
2 or More .....	5.2	1.2	0.9	0.3	13.1
<b>Most Used Range</b> .....	105.7	24.1	16.8	7.4	NE
Electric .....	64.2	13.9	9.2	4.7	4.2
Natural Gas .....	36.7	9.1	7.1	2.0	7.1
LPG .....	4.7	1.1	0.5	0.6	26.3
Other .....	Q	Q	Q	Q	NF
<b>Built-in/Stove-top Grill</b> .....	2.9	0.4	0.2	Q	31.2
Electric .....	1.8	0.3	Q	Q	35.9
Natural Gas .....	1.0	Q	Q	Q	31.5
LPG .....	Q	Q	Q	Q	NF
Other .....	Q	Q	Q	Q	NF
<b>Refrigerators and Freezers</b>					
<b>Refrigerators</b> .....	106.8	24.5	17.1	7.4	NE
1 .....	88.7	19.7	14.1	5.6	1.6
2 or More .....	18.1	4.8	3.0	1.7	6.3
<b>Most-Used Refrigerator</b>					
Defrost Method					
Frost-Free .....	96.9	21.7	15.2	6.4	1.6
Manual .....	9.9	2.8	1.9	0.9	12.0
<b>Type of Refrigerator</b>					
2-Doors (top and bottom) .....	73.0	16.6	11.5	5.1	3.0
2-Doors (side-by-side) .....	27.1	6.5	4.8	1.7	6.9
Regular (single door) .....	5.7	1.2	0.7	0.5	18.4
Half-Size/Other .....	1.0	Q	Q	Q	27.6

See footnotes at end of table.

**Table HC5-10a. Appliances by Midwest Census Region,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.5	
<b>Age of Refrigerator</b>					
Less than 2 Years .....	14.5	3.3	2.6	0.7	7.9
2 to 4 Years .....	20.7	4.2	3.2	1.0	8.9
5 to 9 Years .....	31.1	6.4	4.5	1.9	3.5
10 to 19 Years .....	26.7	7.0	4.5	2.4	6.6
20 Years or More .....	7.1	2.3	1.3	1.0	13.4
Don't Know .....	6.7	1.3	1.0	0.3	14.5
<b>Size of Refrigerator</b>					
Very Small (Less than 11 cf) .....	0.6	Q	Q	Q	40.4
Small (11-14 cf) .....	5.7	1.4	0.9	0.5	16.3
Medium (15-18 cf) .....	52.2	12.5	8.8	3.7	3.6
Large (19-22 cf) .....	43.0	9.1	6.3	2.8	4.0
Very Large (23 or More cf) .....	5.3	1.2	1.0	0.3	18.2
<b>Through-the-Door Ice/Water Service</b>					
Yes .....	22.1	5.0	3.6	1.4	7.0
No .....	84.9	19.5	13.5	6.0	1.8
<b>Freezer (separate)</b>					
1 .....	34.2	9.6	6.0	3.5	4.8
2 or more .....	30.8	8.6	5.6	2.9	4.6
	3.4	1.0	0.4	0.6	16.2
<b>Most-Used Freezer</b>					
Defrost Method					
Frost-Free .....	12.2	2.8	1.8	1.0	10.2
Manual .....	22.0	6.7	4.2	2.5	7.0
<b>Type of Freezer</b>					
Upright .....	17.8	4.2	2.9	1.3	5.0
Chest .....	16.5	5.4	3.1	2.3	7.4
<b>Age of Freezer</b>					
Less than 2 Years .....	3.1	0.9	0.5	0.3	14.0
2 to 4 Years .....	4.6	1.6	1.1	0.5	11.3
5 to 9 Years .....	6.8	1.6	1.0	0.7	10.3
10 to 19 Years .....	11.7	3.1	1.9	1.1	9.6
20 Years or More .....	7.3	2.4	1.5	0.9	13.2
Don't Know .....	0.6	Q	Q	Q	33.1
<b>Freezer Size</b>					
Very Small (Less than 11 cf) .....	2.5	0.8	0.5	0.3	13.5
Small (11-14 cf) .....	8.2	2.3	1.5	0.8	11.6
Medium (15-18 cf) .....	13.3	3.7	2.1	1.7	8.2
Large (19-22 cf) .....	8.7	2.5	1.8	0.7	10.9
Very Large (23 or More cf) .....	1.6	0.3	Q	Q	23.9
<b>Other Kitchen Appliances</b>					
Dishwasher .....	56.7	12.1	8.0	4.2	4.8
Electric Coffee Makers .....	65.5	16.1	11.0	5.1	2.5
Electric Toaster Oven .....	36.1	5.5	3.8	1.7	6.1
Microwave Oven .....	92.1	22.3	15.4	6.9	1.1

See footnotes at end of table.



**Table HC5-10a. Appliances by Midwest Census Region,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.5	
<b>Households With Electric</b>					
<b>Air-Conditioning Equipment</b> .....	82.9	20.5	13.6	6.8	2.2
Air Conditioners Not Used .....	2.1	0.3	Q	Q	27.9
<b>Households Using Electric</b>					
<b>Air-Conditioning<sup>1</sup></b> .....	80.8	20.2	13.4	6.7	2.3
<b>Type of Electric Air-Conditioning Used</b>					
Central Air-Conditioning <sup>2</sup> .....	57.5	14.3	9.5	4.8	3.8
Without a Heat Pump .....	46.2	13.6	9.0	4.6	3.9
With a Heat Pump .....	11.3	0.7	0.5	0.2	22.7
Room Air-Conditioning .....	23.3	5.8	3.9	1.9	7.1
1 Unit .....	12.8	3.6	2.4	1.1	8.3
2 Units .....	7.5	1.7	1.1	0.6	10.4
3 or More Units .....	3.0	0.5	0.4	Q	16.7
<b>Entertainment</b>					
<b>Color Television Sets</b> .....	105.8	24.4	17.0	7.4	NE
1 .....	29.3	6.4	4.1	2.4	6.3
2 .....	38.4	8.2	5.8	2.4	3.5
3 .....	23.3	5.9	4.2	1.7	5.7
4 .....	10.2	2.7	2.2	0.6	11.7
5 or More .....	4.5	1.1	0.8	0.3	12.5
<b>Large Screen Television Sets</b> .....	36.6	8.1	6.2	1.9	7.1
1 .....	27.3	5.9	4.5	1.4	7.5
2 .....	7.9	1.8	1.4	0.4	12.2
3 or More .....	1.4	0.4	Q	Q	41.5
<b>Cable/Satellite Dish Antennas</b> .....	82.2	19.1	13.3	5.7	1.8
Cable Network .....	68.3	15.1	10.9	4.2	3.3
Satellite Dish Antenna .....	12.0	3.4	2.1	1.4	8.8
Both .....	1.9	0.5	0.4	Q	19.8
<b>Video Cassette Recorders (VCRs) and DVD Players</b> .....	96.1	22.5	15.6	6.8	1.1
1 .....	52.3	11.3	7.5	3.9	4.0
2 .....	29.0	7.1	4.9	2.2	6.3
3 or More .....	14.7	4.0	3.3	0.8	8.8
<b>Stereo Equipment</b> .....	80.3	18.2	12.9	5.3	1.5
Portable/Boom Box .....	26.1	6.9	4.8	2.1	6.4
Compact Stereo System .....	36.5	7.8	5.7	2.1	3.8
Component Stereo System .....	36.3	9.0	6.6	2.4	4.5
Other System .....	3.1	0.9	0.6	0.2	19.2
<b>Clothes Washers and Dryers</b>					
<b>Clothes Washer</b> .....	84.1	19.8	13.4	6.4	2.0
Top loading .....	81.6	19.0	12.9	6.1	2.1
Front loading .....	2.5	0.7	0.5	0.2	19.9

See footnotes at end of table.

**Table HC5-10a. Appliances by Midwest Census Region,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.5	
<b>Clothes Dryer</b> .....	78.8	19.2	13.0	6.2	2.1
Electric .....	61.1	13.4	8.5	5.0	4.0
Natural Gas .....	16.9	5.4	4.4	1.1	9.2
LPG .....	0.8	0.4	0.2	Q	34.8
<b>Water Heater Equipment</b>					
<b>Water Heaters</b> .....	107.0	24.5	17.1	7.4	NE
Electric .....	40.8	6.3	4.2	2.2	6.8
For One Housing Unit .....	37.7	5.7	3.6	2.1	8.6
For Two or More Units .....	3.1	0.6	Q	Q	30.6
Natural Gas .....	58.0	16.9	12.4	4.5	3.9
For One Housing Unit .....	50.9	15.2	11.1	4.2	4.8
For Two or More Units .....	7.1	1.7	1.3	0.3	20.4
Fuel Oil .....	4.6	Q	Q	Q	20.9
For One Housing Unit .....	3.0	Q	Q	Q	26.6
For Two or More Units .....	1.6	Q	Q	Q	37.0
LPG .....	2.9	1.3	0.5	0.7	23.0
Other .....	0.5	Q	Q	Q	58.5
No Water Heater .....	Q	Q	Q	Q	NF
<b>Water Heater (for one housing unit)</b> .....	95.0	22.2	15.1	7.0	1.9
Age					
Less than 2 Years .....	11.4	2.9	1.8	1.0	11.4
2 to 4 Years .....	17.3	3.9	2.9	1.0	7.0
5 to 9 Years .....	25.3	6.3	4.4	1.9	7.8
10 to 19 Years .....	21.7	5.3	3.5	1.8	6.2
20 Years or More .....	7.4	1.6	1.0	0.7	13.0
Don't Know .....	9.4	1.9	1.3	0.6	11.5
No Separate Heater .....	2.5	0.2	Q	Q	29.1
No Water Heater .....	Q	Q	Q	Q	NF
Water Heaters for					
Two or More Units .....	11.9	2.3	2.0	0.4	19.8
Size					
Small .....	12.2	3.0	2.0	1.0	12.7
Medium .....	49.4	11.8	8.4	3.4	4.0
Large .....	25.6	5.8	3.9	1.9	8.1
Don't Know .....	3.8	1.1	0.6	0.5	23.4
No Separate Heater .....	2.5	0.2	Q	Q	29.1
No Water Heater .....	Q	Q	Q	Q	NF
Water Heaters for					
Two or More Units .....	11.9	2.3	2.0	0.4	19.8
<b>Heaters (other)</b>					
Hot Tub or Spa (heaters) .....	4.4	0.6	0.4	0.2	19.5
Electric .....	3.3	0.5	Q	Q	20.3
Natural Gas .....	0.9	Q	Q	Q	33.7
LPG/Other .....	Q	Q	Q	Q	NF
Portable Space (heaters) .....	13.4	3.1	2.0	1.1	7.7
Electric .....	11.9	2.7	1.7	1.1	8.5
Kerosene .....	1.8	0.5	0.4	Q	15.3

See footnotes at end of table.

**Table HC5-10a. Appliances by Midwest Census Region,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.2	1.5	
Swimming Pool (heaters) .....	1.2	Q	Q	Q	34.9
Natural Gas .....	0.8	Q	Q	Q	43.2
Electric/LPG/Other .....	0.4	Q	Q	Q	53.1
Waterbed Heaters .....	5.5	2.1	1.4	0.7	10.7
1 .....	4.8	1.9	1.3	0.6	11.3
2 or More .....	0.8	Q	Q	Q	39.0
Used All Year .....	5.0	1.9	1.2	0.6	11.5
1 .....	4.3	1.7	1.1	0.6	12.6
2 or More .....	0.6	Q	Q	Q	44.0
<b>Other Appliances</b>					
Automobile Block/Engine/ Battery Heater .....	2.3	0.8	Q	0.5	23.4
Ceiling Fans .....	69.6	18.0	12.3	5.8	2.7
1 .....	22.0	5.8	3.9	1.9	6.2
2 .....	15.1	4.4	3.0	1.4	9.4
3 or more .....	32.6	7.9	5.4	2.5	4.9
Electric Dehumidifier .....	12.1	6.1	4.1	2.0	9.6
Electric Humidifier .....	15.6	7.2	4.8	2.4	7.6
Evaporative/Swamp Cooler .....	2.7	Q	Q	Q	33.2
Heated Aquarium .....	4.5	1.4	0.9	0.4	13.0
Outdoor Gas Light <sup>3</sup> .....	0.5	Q	Q	Q	31.0
Pumps (Electric) .....	21.2	5.3	4.0	1.2	9.1
Rechargeable Tools/Appliances .....	47.7	12.5	8.7	3.7	3.2
Swimming Pool (with filters) .....	6.5	1.1	1.0	Q	14.0
Well Water .....	13.8	4.1	3.2	1.0	14.1

<sup>1</sup> The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (2.1 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

<sup>2</sup> The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

<sup>3</sup> Includes LPG and natural gas.

cf = Cubic feet.

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

NF = No applicable RSE row factor.

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

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

• 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 2001 Residential Energy Consumption Survey.

**Table HC5-11a. Appliances by South Census Region,  
Million U.S. Households, 2001**

Appliance Types and Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.1	1.4	1.5	
<b>Total</b> .....	107.0	38.9	20.3	6.8	11.8	NE
<b>Kitchen Appliances</b>						
<b>Cooking Appliances</b>						
<b>Oven</b> .....	101.7	36.2	19.4	6.4	10.3	1.5
1 .....	95.2	33.8	18.1	6.1	9.7	1.5
2 or More .....	6.5	2.4	1.4	0.3	0.7	15.2
<b>Most Used Oven</b> .....	101.7	36.2	19.4	6.4	10.3	1.5
Electric .....	63.0	26.0	14.7	4.9	6.4	3.4
Natural Gas .....	34.3	8.8	4.0	1.0	3.8	8.2
LPG .....	4.4	1.4	0.7	0.5	Q	21.6
Other .....	Q	Q	Q	Q	Q	NF
<b>Most Used Self-Cleaning Oven</b> .....	48.2	16.1	9.7	2.8	3.6	4.1
Continuous .....	11.2	4.0	2.3	0.7	1.1	12.1
Manual Start .....	37.0	12.1	7.5	2.0	2.6	6.4
<b>Range</b> .....	105.7	38.6	20.1	6.8	11.6	NE
1 .....	100.5	36.7	18.9	6.6	11.2	1.1
2 or More .....	5.2	1.9	1.2	0.3	0.4	17.4
<b>Most Used Range</b> .....	105.7	38.6	20.1	6.8	11.6	NE
Electric .....	64.2	27.2	15.1	5.2	7.0	3.7
Natural Gas .....	36.7	9.8	4.3	1.1	4.5	8.9
LPG .....	4.7	1.6	0.8	0.5	Q	20.7
Other .....	Q	Q	Q	Q	Q	NF
<b>Built-in/Stove-top Grill</b> .....	2.9	1.3	0.6	Q	0.4	21.9
Electric .....	1.8	0.7	0.5	Q	Q	24.6
Natural Gas .....	1.0	0.4	Q	Q	Q	33.0
LPG .....	Q	Q	Q	Q	Q	NF
Other .....	Q	Q	Q	Q	Q	NF
<b>Refrigerators and Freezers</b>						
<b>Refrigerators</b> .....	106.8	38.9	20.3	6.8	11.8	NE
1 .....	88.7	32.9	17.0	5.8	10.1	1.2
2 or More .....	18.1	6.1	3.3	1.1	1.7	6.8
<b>Most-Used Refrigerator</b>						
Defrost Method						
Frost-Free .....	96.9	36.3	18.9	6.4	11.0	1.1
Manual .....	9.9	2.7	1.4	0.5	0.8	14.1
<b>Type of Refrigerator</b>						
2-Doors (top and bottom) .....	73.0	25.4	13.6	4.5	7.3	2.6
2-Doors (side-by-side) .....	27.1	11.0	5.5	1.9	3.7	6.3
Regular (single door) .....	5.7	2.1	1.2	0.3	0.6	16.8
Half-Size/Other .....	1.0	0.4	Q	Q	Q	30.7

See footnotes at end of table.

**Table HC5-11a. Appliances by South Census Region,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.1	1.4	1.5	
<b>Age of Refrigerator</b>						
Less than 2 Years .....	14.5	5.7	2.7	1.1	1.9	6.8
2 to 4 Years .....	20.7	7.6	4.2	1.2	2.2	8.4
5 to 9 Years .....	31.1	12.0	6.2	2.3	3.6	4.3
10 to 19 Years .....	26.7	8.9	4.9	1.6	2.5	7.0
20 Years or More .....	7.1	2.1	1.0	0.5	0.6	13.2
Don't Know .....	6.7	2.5	1.3	0.2	1.0	17.5
<b>Size of Refrigerator</b>						
Very Small (Less than 11 cf) .....	0.6	Q	Q	Q	Q	45.0
Small (11-14 cf) .....	5.7	1.7	0.9	0.2	0.5	17.4
Medium (15-18 cf) .....	52.2	18.2	9.7	3.4	5.1	4.1
Large (19-22 cf) .....	43.0	16.8	8.7	2.8	5.3	4.6
Very Large (23 or More cf) .....	5.3	2.1	0.9	0.4	0.8	16.3
<b>Through-the-Door Ice/Water Service</b>						
Yes .....	22.1	10.1	5.0	1.9	3.2	5.1
No .....	84.9	28.9	15.3	5.0	8.6	1.7
<b>Freezer (separate)</b>						
1 .....	34.2	13.6	6.6	2.9	4.0	6.1
2 or more .....	30.8	12.2	6.1	2.6	3.5	5.8
	3.4	1.4	0.5	0.3	0.5	18.8
<b>Most-Used Freezer</b>						
Defrost Method						
Frost-Free .....	12.2	5.7	2.7	1.3	1.8	9.2
Manual .....	22.0	7.9	4.0	1.6	2.2	8.6
<b>Type of Freezer</b>						
Upright .....	17.8	6.5	3.4	0.9	2.2	8.6
Chest .....	16.5	7.1	3.2	2.0	1.8	8.5
<b>Age of Freezer</b>						
Less than 2 Years .....	3.1	1.5	0.6	0.3	0.6	17.5
2 to 4 Years .....	4.6	1.8	0.8	0.5	0.4	13.3
5 to 9 Years .....	6.8	2.8	1.5	0.7	0.7	13.9
10 to 19 Years .....	11.7	4.4	2.3	0.8	1.4	11.3
20 Years or More .....	7.3	2.7	1.2	0.6	0.8	14.4
Don't Know .....	0.6	0.3	Q	Q	Q	34.0
<b>Freezer Size</b>						
Very Small (Less than 11 cf) .....	2.5	0.9	0.5	Q	0.2	22.9
Small (11-14 cf) .....	8.2	3.5	1.6	0.9	1.0	10.6
Medium (15-18 cf) .....	13.3	5.2	2.7	1.0	1.5	11.0
Large (19-22 cf) .....	8.7	3.3	1.6	0.7	1.0	10.5
Very Large (23 or More cf) .....	1.6	0.6	Q	0.1	0.2	29.3
<b>Other Kitchen Appliances</b>						
Dishwasher .....	56.7	22.1	11.7	3.5	6.9	3.5
Electric Coffee Makers .....	65.5	23.0	11.3	4.5	7.2	3.5
Electric Toaster Oven .....	36.1	14.7	7.4	2.3	5.0	5.3
Microwave Oven .....	92.1	34.7	17.9	6.2	10.6	1.6

See footnotes at end of table.

**Table HC5-11a. Appliances by South Census Region,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.1	1.4	1.5	
<b>Households With Electric</b>						
<b>Air-Conditioning Equipment</b> .....	82.9	37.2	19.3	6.4	11.5	1.4
Air Conditioners Not Used .....	2.1	0.4	Q	Q	Q	29.3
<b>Households Using Electric</b>						
<b>Air-Conditioning<sup>1</sup></b> .....	80.8	36.9	19.0	6.4	11.5	1.6
<b>Type of Electric Air-Conditioning Used</b>						
Central Air-Conditioning <sup>2</sup> .....	57.5	30.4	16.1	5.0	9.2	2.8
Without a Heat Pump .....	46.2	22.1	10.4	3.4	8.3	5.6
With a Heat Pump .....	11.3	8.3	5.7	1.6	0.9	14.6
Room Air-Conditioning .....	23.3	6.4	2.9	1.3	2.2	9.0
1 Unit .....	12.8	2.9	1.3	0.6	0.9	10.2
2 Units .....	7.5	2.6	1.3	0.5	0.8	12.0
3 or More Units .....	3.0	1.0	0.3	0.2	0.5	22.4
<b>Entertainment</b>						
<b>Color Television Sets</b> .....	105.8	38.4	20.1	6.7	11.6	NE
1 .....	29.3	9.8	4.7	1.9	3.2	7.5
2 .....	38.4	13.7	7.0	2.5	4.3	3.6
3 .....	23.3	9.2	5.3	1.5	2.4	5.5
4 .....	10.2	3.9	2.2	0.6	1.2	10.2
5 or More .....	4.5	1.8	0.9	0.3	0.6	13.5
<b>Large Screen Television Sets</b> .....	36.6	13.3	6.9	2.2	4.2	7.6
1 .....	27.3	9.7	4.8	1.4	3.4	8.6
2 .....	7.9	3.3	2.0	0.7	0.7	13.6
3 or More .....	1.4	0.4	Q	Q	Q	45.1
<b>Cable/Satellite Dish Antennas</b> .....	82.2	30.2	16.8	5.1	8.3	2.4
Cable Network .....	68.3	24.7	14.1	4.1	6.5	3.9
Satellite Dish Antenna .....	12.0	4.7	2.2	1.0	1.6	10.7
Both .....	1.9	0.8	0.5	Q	Q	27.0
<b>Video Cassette Recorders</b>						
<b>(VCRs) and DVD Players</b> .....	96.1	34.6	18.4	5.9	10.3	1.3
1 .....	52.3	18.5	10.0	3.2	5.3	4.2
2 .....	29.0	10.7	5.6	1.8	3.3	6.4
3 or More .....	14.7	5.4	2.8	0.9	1.7	9.8
<b>Stereo Equipment</b> .....						
Portable/Boom Box .....	80.3	28.5	15.2	5.0	8.4	2.2
Compact Stereo System .....	26.1	8.7	4.5	1.9	2.3	7.7
Component Stereo System .....	36.5	13.0	6.8	2.1	4.2	5.3
Other System .....	36.3	12.5	7.1	2.1	3.2	5.8
	3.1	1.0	0.5	0.3	Q	20.1
<b>Clothes Washers and Dryers</b>						
<b>Clothes Washer</b> .....	84.1	32.7	17.2	5.9	9.6	2.5
Top loading .....	81.6	31.9	16.7	5.8	9.4	2.7
Front loading .....	2.5	0.8	0.5	Q	Q	19.0

See footnotes at end of table.

**Table HC5-11a. Appliances by South Census Region,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.1	1.4	1.5	
<b>Clothes Dryer</b> .....	78.8	30.3	15.5	5.6	9.2	2.9
Electric .....	61.1	26.6	14.1	5.3	7.2	4.4
Natural Gas .....	16.9	3.4	1.3	0.3	1.8	17.0
LPG .....	0.8	0.3	Q	Q	Q	40.2
<b>Water Heater Equipment</b>						
<b>Water Heaters</b> .....	107.0	38.9	20.3	6.8	11.8	NE
Electric .....	40.8	22.4	13.4	4.4	4.6	6.6
For One Housing Unit .....	37.7	21.6	13.1	4.4	4.2	7.3
For Two or More Units .....	3.1	0.8	0.3	Q	0.5	20.1
Natural Gas .....	58.0	15.4	6.3	2.2	6.9	8.4
For One Housing Unit .....	50.9	14.5	5.8	2.0	6.6	7.8
For Two or More Units .....	7.1	1.0	Q	Q	Q	27.7
Fuel Oil .....	4.6	Q	Q	Q	Q	23.2
For One Housing Unit .....	3.0	Q	Q	Q	Q	29.6
For Two or More Units .....	1.6	Q	Q	Q	Q	41.2
LPG .....	2.9	0.6	Q	0.2	Q	29.3
Other .....	0.5	Q	Q	Q	Q	65.1
No Water Heater .....	Q	Q	Q	Q	Q	NF
<b>Water Heater (for one housing unit)</b> .....	95.0	37.0	19.4	6.6	11.0	1.5
Age .....						
Less than 2 Years .....	11.4	4.7	2.5	0.9	1.3	9.1
2 to 4 Years .....	17.3	6.8	3.5	1.2	2.1	8.3
5 to 9 Years .....	25.3	10.3	5.3	1.9	3.1	7.5
10 to 19 Years .....	21.7	8.6	4.8	1.7	2.1	7.3
20 Years or More .....	7.4	2.8	1.4	0.4	0.9	16.2
Don't Know .....	9.4	3.4	1.7	0.5	1.3	14.2
No Separate Heater .....	2.5	0.3	Q	Q	Q	30.0
No Water Heater .....	Q	Q	Q	Q	Q	NF
Water Heaters for .....						
Two or More Units .....	11.9	1.9	0.9	Q	0.8	24.6
Size .....						
Small .....	12.2	5.2	2.9	0.9	1.4	10.8
Medium .....	49.4	19.9	10.9	3.5	5.5	4.2
Large .....	25.6	9.6	4.4	1.9	3.2	7.7
Don't Know .....	3.8	1.3	0.7	0.2	0.4	24.8
No Separate Heater .....	2.5	0.3	Q	Q	Q	30.0
No Water Heater .....	Q	Q	Q	Q	Q	NF
Water Heaters for .....						
Two or More Units .....	11.9	1.9	0.9	Q	0.8	24.6
<b>Heaters (other)</b>						
Hot Tub or Spa (heaters) .....	4.4	1.5	0.6	0.2	0.8	12.2
Electric .....	3.3	1.1	0.4	Q	0.5	19.9
Natural Gas .....	0.9	0.3	Q	Q	Q	39.1
LPG/Other .....	Q	Q	Q	Q	Q	NF
Portable Space (heaters) .....	13.4	4.9	2.3	0.9	1.7	6.8
Electric .....	11.9	4.1	1.7	0.7	1.7	8.5
Kerosene .....	1.8	0.9	0.6	0.2	Q	21.1

See footnotes at end of table.

**Table HC5-11a. Appliances by South Census Region,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.1	1.4	1.5	
Swimming Pool (heaters) .....	1.2	0.5	0.4	Q	Q	38.2
Natural Gas .....	0.8	Q	Q	Q	Q	48.1
Electric/LPG/Other .....	0.4	Q	Q	Q	Q	59.2
Waterbed Heaters .....	5.5	2.0	1.1	0.6	0.3	16.7
1 .....	4.8	1.7	0.8	0.6	0.3	20.1
2 or More .....	0.8	0.4	Q	Q	Q	41.5
Used All Year .....	5.0	1.8	1.0	0.6	0.2	17.5
1 .....	4.3	1.6	0.8	0.5	0.2	19.8
2 or More .....	0.6	0.3	Q	Q	Q	47.4
<b>Other Appliances</b>						
Automobile Block/Engine/ Battery Heater .....	2.3	Q	Q	Q	Q	30.9
Ceiling Fans .....	69.6	30.0	14.9	5.4	9.7	2.3
1 .....	22.0	6.2	3.1	1.2	1.9	8.3
2 .....	15.1	5.7	2.8	1.2	1.7	8.2
3 or more .....	32.6	18.1	9.0	3.0	6.1	5.2
Electric Dehumidifier .....	12.1	2.1	1.3	0.6	Q	13.9
Electric Humidifier .....	15.6	3.1	2.0	0.7	0.5	14.4
Evaporative/Swamp Cooler .....	2.7	Q	Q	Q	Q	37.0
Heated Aquarium .....	4.5	1.6	0.9	0.3	0.5	17.4
Outdoor Gas Light <sup>3</sup> .....	0.5	Q	Q	Q	Q	34.5
Pumps (Electric) .....	21.2	7.9	5.3	1.1	1.5	11.9
Rechargeable Tools/Appliances .....	47.7	16.5	9.0	2.8	4.7	4.7
Swimming Pool (with filters) .....	6.5	2.9	1.9	0.4	0.6	15.2
Well Water .....	13.8	4.9	3.8	0.7	0.4	20.9

<sup>1</sup> The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (2.1 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

<sup>2</sup> The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

<sup>3</sup> Includes LPG and natural gas.

cf = Cubic feet.

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

NF = No applicable RSE row factor.

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

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

• 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 2001 Residential Energy Consumption Survey.



**Table HC5-12a. Appliances by West Census Region,  
Million U.S. Households, 2001**

Appliance Types and Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
<b>Total</b> .....	107.0	23.3	6.7	16.6	NE
<b>Kitchen Appliances</b>					
<b>Cooking Appliances</b>					
<b>Oven</b> .....	101.7	22.1	6.6	15.5	1.1
1 .....	95.2	20.9	6.4	14.5	1.1
2 or More .....	6.5	1.2	0.2	1.0	14.6
<b>Most Used Oven</b> .....	101.7	22.1	6.6	15.5	1.1
Electric .....	63.0	13.1	4.8	8.3	3.7
Natural Gas .....	34.3	8.2	1.5	6.7	5.2
LPG .....	4.4	0.8	Q	0.5	25.0
Other .....	Q	Q	Q	Q	NF
<b>Most Used Self-Cleaning Oven</b> .....	48.2	9.6	3.4	6.2	4.9
Continuous .....	11.2	1.6	0.5	1.1	12.5
Manual Start .....	37.0	7.9	2.8	5.1	6.0
<b>Range</b> .....	105.7	22.9	6.7	16.2	NE
1 .....	100.5	22.1	6.5	15.6	0.9
2 or More .....	5.2	0.8	0.2	0.6	18.7
<b>Most Used Range</b> .....	105.7	22.9	6.7	16.2	NE
Electric .....	64.2	13.2	4.8	8.4	3.4
Natural Gas .....	36.7	8.9	1.6	7.2	5.5
LPG .....	4.7	0.8	Q	0.6	23.7
Other .....	Q	Q	Q	Q	NF
<b>Built-in/Stove-top Grill</b> .....	2.9	0.9	0.3	0.6	20.6
Electric .....	1.8	0.5	0.2	0.3	25.1
Natural Gas .....	1.0	0.3	Q	0.3	30.7
LPG .....	Q	Q	Q	Q	NF
Other .....	Q	Q	Q	Q	NF
<b>Refrigerators and Freezers</b>					
<b>Refrigerators</b> .....	106.8	23.2	6.7	16.5	NE
1 .....	88.7	19.4	5.5	13.9	1.5
2 or More .....	18.1	3.8	1.2	2.6	7.1
<b>Most-Used Refrigerator</b>					
Defrost Method					
Frost-Free .....	96.9	20.7	5.9	14.8	1.5
Manual .....	9.9	2.5	0.8	1.7	12.3
<b>Type of Refrigerator</b>					
2-Doors (top and bottom) .....	73.0	15.4	4.6	10.8	2.9
2-Doors (side-by-side) .....	27.1	6.2	1.7	4.5	7.3
Regular (single door) .....	5.7	1.3	0.3	0.9	12.4
Half-Size/Other .....	1.0	0.3	Q	0.3	25.9

See footnotes at end of table.

**Table HC5-12a. Appliances by West Census Region,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
<b>Age of Refrigerator</b>					
Less than 2 Years .....	14.5	3.1	0.9	2.1	5.3
2 to 4 Years .....	20.7	4.9	1.5	3.4	8.1
5 to 9 Years .....	31.1	7.1	2.0	5.1	3.7
10 to 19 Years .....	26.7	5.1	1.3	3.8	5.8
20 Years or More .....	7.1	1.5	0.7	0.8	15.4
Don't Know .....	6.7	1.5	0.3	1.2	13.3
<b>Size of Refrigerator</b>					
Very Small (Less than 11 cf) .....	0.6	0.2	Q	Q	35.8
Small (11-14 cf) .....	5.7	1.5	0.5	1.1	15.6
Medium (15-18 cf) .....	52.2	11.6	3.3	8.3	4.3
Large (19-22 cf) .....	43.0	8.7	2.6	6.1	5.0
Very Large (23 or More cf) .....	5.3	1.1	0.3	0.8	14.3
<b>Through-the-Door Ice/Water Service</b>					
Yes .....	22.1	4.8	1.3	3.5	8.5
No .....	84.9	18.5	5.5	13.1	2.3
<b>Freezer (separate)</b>					
1 .....	34.2	6.2	2.3	3.8	7.1
2 or more .....	30.8	5.6	2.1	3.5	6.7
	3.4	0.6	0.3	0.3	19.7
<b>Most-Used Freezer</b>					
Defrost Method					
Frost-Free .....	12.2	1.8	0.8	1.0	9.9
Manual .....	22.0	4.4	1.5	2.9	9.0
<b>Type of Freezer</b>					
Upright .....	17.8	4.0	1.3	2.8	7.5
Chest .....	16.5	2.1	1.1	1.1	10.7
<b>Age of Freezer</b>					
Less than 2 Years .....	3.1	0.5	0.3	0.2	18.8
2 to 4 Years .....	4.6	0.7	0.2	0.5	15.8
5 to 9 Years .....	6.8	1.3	0.6	0.8	12.2
10 to 19 Years .....	11.7	2.1	0.7	1.4	9.7
20 Years or More .....	7.3	1.3	0.5	0.8	16.5
Don't Know .....	0.6	Q	Q	Q	36.9
<b>Freezer Size</b>					
Very Small (Less than 11 cf) .....	2.5	0.5	0.3	0.3	19.0
Small (11-14 cf) .....	8.2	1.3	0.5	0.8	13.0
Medium (15-18 cf) .....	13.3	2.3	0.9	1.4	10.4
Large (19-22 cf) .....	8.7	1.6	0.5	1.1	10.8
Very Large (23 or More cf) .....	1.6	0.4	Q	0.3	24.1
<b>Other Kitchen Appliances</b>					
Dishwasher .....	56.7	13.2	4.2	9.0	4.4
Electric Coffee Makers .....	65.5	14.0	4.4	9.6	3.1
Electric Toaster Oven .....	36.1	7.4	1.9	5.5	6.2
Microwave Oven .....	92.1	19.9	6.1	13.8	2.4

See footnotes at end of table.

**Table HC5-12a. Appliances by West Census Region,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
<b>Households With Electric</b>					
<b>Air-Conditioning Equipment</b> .....	82.9	10.7	3.4	7.2	7.1
Air Conditioners Not Used .....	2.1	1.1	0.2	0.9	15.5
<b>Households Using Electric</b>					
<b>Air-Conditioning<sup>1</sup></b> .....	80.8	9.6	3.2	6.3	7.2
<b>Type of Electric Air-Conditioning Used</b>					
Central Air-Conditioning <sup>2</sup> .....	57.5	7.1	2.6	4.5	8.5
Without a Heat Pump .....	46.2	5.2	1.8	3.4	11.2
With a Heat Pump .....	11.3	1.8	0.7	1.1	10.9
Room Air-Conditioning .....	23.3	2.5	0.6	1.9	10.1
1 Unit .....	12.8	2.0	0.5	1.5	11.6
2 Units .....	7.5	0.4	Q	0.3	17.4
3 or More Units .....	3.0	Q	Q	Q	20.2
<b>Entertainment</b>					
<b>Color Television Sets</b> .....	105.8	22.9	6.6	16.3	NE
1 .....	29.3	7.3	2.1	5.2	5.6
2 .....	38.4	8.4	2.5	5.9	3.3
3 .....	23.3	4.3	1.1	3.2	6.0
4 .....	10.2	2.0	0.6	1.4	12.7
5 or More .....	4.5	0.9	0.2	0.7	13.4
<b>Large Screen Television Sets</b> .....	36.6	8.0	2.0	6.1	5.3
1 .....	27.3	6.5	1.4	5.1	5.5
2 .....	7.9	1.4	0.4	1.0	10.1
3 or More .....	1.4	Q	Q	Q	49.4
<b>Cable/Satellite Dish Antennas</b> .....	82.2	16.6	4.4	12.2	3.5
Cable Network .....	68.3	14.0	3.6	10.4	4.2
Satellite Dish Antenna .....	12.0	2.3	0.8	1.5	9.7
Both .....	1.9	0.3	Q	0.2	27.2
<b>Video Cassette Recorders</b>					
<b>(VCRs) and DVD Players</b> .....	96.1	21.0	6.1	14.9	1.1
1 .....	52.3	12.0	3.4	8.6	4.2
2 .....	29.0	5.8	1.7	4.1	6.2
3 or More .....	14.7	3.2	1.0	2.2	9.2
<b>Stereo Equipment</b> .....					
Portable/Boom Box .....	80.3	18.5	5.4	13.2	1.9
Compact Stereo System .....	26.1	6.1	1.9	4.2	5.7
Component Stereo System .....	36.5	8.8	2.8	6.1	4.3
Other System .....	36.3	8.0	2.1	6.0	4.7
3.1	0.7	0.4	0.4	0.4	17.7
<b>Clothes Washers and Dryers</b>					
<b>Clothes Washer</b> .....	84.1	16.9	5.3	11.6	3.4
Top loading .....	81.6	16.4	5.2	11.2	3.6
Front loading .....	2.5	0.5	Q	0.4	22.6

See footnotes at end of table.

**Table HC5-12a. Appliances by West Census Region,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
<b>Clothes Dryer</b> .....	78.8	16.0	5.0	11.1	3.8
Electric .....	61.1	11.9	4.7	7.2	5.0
Natural Gas .....	16.9	4.1	0.3	3.8	9.9
LPG .....	0.8	Q	Q	Q	40.5
<b>Water Heater Equipment</b>					
<b>Water Heaters</b> .....	107.0	23.3	6.7	16.6	NE
Electric .....	40.8	7.3	2.3	5.0	4.9
For One Housing Unit .....	37.7	6.3	2.2	4.1	7.3
For Two or More Units .....	3.1	1.1	0.2	0.9	27.6
Natural Gas .....	58.0	14.9	4.1	10.8	2.8
For One Housing Unit .....	50.9	13.1	3.8	9.3	3.9
For Two or More Units .....	7.1	1.8	Q	1.5	15.8
Fuel Oil .....	4.6	Q	Q	Q	23.3
For One Housing Unit .....	3.0	Q	Q	Q	29.7
For Two or More Units .....	1.6	Q	Q	Q	41.3
LPG .....	2.9	0.7	0.2	0.5	26.2
Other .....	0.5	Q	Q	Q	65.2
No Water Heater .....	Q	Q	Q	Q	NF
<b>Water Heater (for one housing unit)</b> .....	95.0	20.2	6.3	14.0	2.3
Age .....					
Less than 2 Years .....	11.4	2.1	0.5	1.5	10.0
2 to 4 Years .....	17.3	3.9	1.5	2.3	11.0
5 to 9 Years .....	25.3	4.9	1.7	3.2	7.8
10 to 19 Years .....	21.7	4.6	1.3	3.3	9.7
20 Years or More .....	7.4	1.9	0.6	1.3	14.4
Don't Know .....	9.4	2.6	0.5	2.1	10.8
No Separate Heater .....	2.5	0.4	Q	0.3	23.3
No Water Heater .....	Q	Q	Q	Q	NF
Water Heaters for Two or More Units .....	11.9	3.1	0.5	2.6	17.5
Size .....					
Small .....	12.2	2.2	0.9	1.2	11.8
Medium .....	49.4	10.7	3.4	7.2	3.6
Large .....	25.6	6.1	1.5	4.7	7.6
Don't Know .....	3.8	0.5	0.3	0.3	23.1
No Separate Heater .....	2.5	0.4	Q	0.3	23.3
No Water Heater .....	Q	Q	Q	Q	NF
Water Heaters for Two or More Units .....	11.9	3.1	0.5	2.6	17.5
<b>Heaters (other)</b>					
Hot Tub or Spa (heaters) .....	4.4	1.4	0.3	1.2	14.8
Electric .....	3.3	0.9	0.2	0.7	17.0
Natural Gas .....	0.9	0.4	Q	0.3	27.7
LPG/Other .....	Q	Q	Q	Q	NF
Portable Space (heaters) .....	13.4	3.0	0.8	2.1	8.6
Electric .....	11.9	2.9	0.8	2.1	8.8
Kerosene .....	1.8	Q	Q	Q	24.8

See footnotes at end of table.

**Table HC5-12a. Appliances by West Census Region,  
Million U.S. Households, 2001 (Continued)**

Appliance Types and Characteristics	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	
Swimming Pool (heaters) .....	1.2	0.3	Q	0.3	35.0
Natural Gas .....	0.8	0.2	Q	Q	44.3
Electric/LPG/Other .....	0.4	Q	Q	Q	59.2
Waterbed Heaters .....	5.5	0.7	0.3	0.3	18.5
1 .....	4.8	0.6	0.3	0.3	16.8
2 or More .....	0.8	Q	Q	Q	43.4
Used All Year .....	5.0	0.5	0.3	0.3	20.6
1 .....	4.3	0.5	0.2	0.3	18.3
2 or More .....	0.6	Q	Q	Q	49.1
<b>Other Appliances</b>					
Automobile Block/Engine/ Battery Heater .....	2.3	1.1	0.7	0.4	21.2
Ceiling Fans .....	69.6	11.8	4.4	7.4	3.9
1 .....	22.0	5.6	1.8	3.8	8.4
2 .....	15.1	2.9	0.9	1.9	9.5
3 or more .....	32.6	3.3	1.6	1.7	10.1
Electric Dehumidifier .....	12.1	0.2	Q	Q	20.2
Electric Humidifier .....	15.6	1.6	0.9	0.7	14.7
Evaporative/Swamp Cooler .....	2.7	2.2	1.7	0.5	23.2
Heated Aquarium .....	4.5	0.9	0.3	0.6	15.4
Outdoor Gas Light <sup>3</sup> .....	0.5	Q	Q	Q	34.6
Pumps (Electric) .....	21.2	3.3	1.0	2.3	9.7
Rechargeable Tools/Appliances .....	47.7	9.8	3.1	6.7	6.2
Swimming Pool (with filters) .....	6.5	1.1	0.3	0.8	13.5
Well Water .....	13.8	1.4	0.6	0.8	17.3

<sup>1</sup> The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (2.1 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

<sup>2</sup> The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

<sup>3</sup> Includes LPG and natural gas.

cf = Cubic feet.

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

NF = No applicable RSE row factor.

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

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

• 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 2001 Residential Energy Consumption Survey.