

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 ¹	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	
Total	107.0	18.7	22.9	27.1	38.3	15.0	33.8	3.2
Kitchen Appliances								
Cooking Appliances								
Oven	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
Most Used Oven	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
Most Used Self-Cleaning Oven	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
Range	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
Most Used Range	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
Built-in/Stove-top Grill	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
Refrigerators and Freezers								
Refrigerators	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
Most-Used Refrigerator								
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
Type of Refrigerator								
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 ¹	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	
Age of Refrigerator								
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
Size of Refrigerator								
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
Through-the-Door Ice/Water Service								
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
Freezer (separate)								
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
Most-Used Freezer								
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
Type of Freezer								
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
Age of Freezer								
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
Freezer Size								
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
Other Kitchen Appliances								
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	Eli- gible for Fed- eral Assist- ance ¹	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	
Households With Electric								
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
Households Using Electric								
Air-Conditioning ²	80.8	11.9	16.7	21.0	31.2	9.1	22.6	3.9
Type of Electric Air-Conditioning Used								
Central Air-Conditioning ³	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
Entertainment								
Color Television Sets	105.8	18.1	22.7	26.9	38.0	14.6	33.1	3.3
1	29.3	8.5	8.6	6.5	5.7	6.4	12.4	5.4
2	38.4	6.4	8.5	10.7	12.8	4.8	11.9	4.5
3	23.3	2.5	3.8	6.1	10.9	2.3	5.7	6.7
4	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
Large Screen Television Sets	36.6	4.7	6.7	9.8	15.3	3.8	9.8	6.4
1	27.3	3.7	5.1	7.0	11.4	2.8	7.4	7.1
2	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
Cable/Satellite Dish Antennas ...	82.2	12.1	16.2	20.9	33.0	9.4	22.9	3.6
Cable Network	68.3	11.0	13.4	16.6	27.2	8.5	19.8	4.2
Satellite Dish Antenna	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
Video Cassette Recorders (VCRs) and DVD Players	96.1	13.9	19.8	25.3	37.0	11.7	27.3	3.6
1	52.3	10.0	12.7	14.4	15.3	7.8	17.2	4.5
2	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
Stereo Equipment	80.3	10.2	15.4	20.9	33.8	8.8	21.1	3.5
Portable/Boom Box	26.1	3.2	4.7	6.9	11.3	3.1	7.0	6.5
Compact Stereo System	36.5	4.7	7.1	9.5	15.3	3.9	9.9	5.2
Component Stereo 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
Clothes Washers and Dryers								
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

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

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		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	
Clothes Dryer	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
Water Heater Equipment								
Water Heaters	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
Water Heater (for one housing unit)	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
Heaters (other)	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.

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		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
Other Appliances								
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 ⁴	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

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

² The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (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.

³ 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.

⁴ 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.