

**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 ¹	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	
Total	107.0	15.5	18.2	18.8	13.8	14.2	26.6	4.2
Kitchen Appliances								
Cooking Appliances								
Oven	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
Most Used Oven	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
Most Used Self-Cleaning Oven	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
Range	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
Most Used Range	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
Built-in/Stove-top Grill	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
Refrigerators and Freezers								
Refrigerators	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
Most-Used Refrigerator								
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
Type of Refrigerator								
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 ¹	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	
Age of Refrigerator								
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
Size of Refrigerator								
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
Through-the-Door Ice/Water Service								
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
Freezer (separate)								
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
Most-Used Freezer								
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
Type of Freezer								
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
Age of Freezer								
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
Freezer Size								
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
Other Kitchen Appliances								
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 ¹	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	
Households With Electric Air-Conditioning Equipment								
Air-Conditioning Equipment	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
Households Using Electric Air-Conditioning²								
Air-Conditioning ²	80.8	13.4	15.8	14.2	10.1	10.2	17.1	4.7
Type of Electric Air-Conditioning Used								
Central Air-Conditioning ³	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
Entertainment								
Color Television Sets								
1	105.8	15.3	17.9	18.6	13.6	14.1	26.3	4.2
2	29.3	2.9	4.6	5.5	4.1	3.6	8.8	7.7
3	38.4	5.4	6.3	7.2	4.5	5.3	9.7	5.6
4	23.3	4.1	4.4	3.5	3.3	3.0	5.1	7.5
5 or More	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
Large Screen Television Sets								
1	36.6	6.4	6.5	6.2	4.7	4.8	8.1	6.9
2	27.3	4.9	4.6	4.9	3.6	3.5	5.9	7.5
3 or More	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
Cable/Satellite Dish Antennas								
Cable Network	82.2	12.7	14.3	14.7	10.6	11.3	18.5	4.4
Satellite Dish Antenna	68.3	9.6	11.9	11.7	9.3	10.0	15.7	5.0
Both	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
Video Cassette Recorders (VCRs) and DVD Players								
1	96.1	14.5	16.7	16.7	12.2	12.7	23.3	4.4
2	52.3	6.8	8.6	9.1	6.7	7.1	14.0	5.6
3 or More	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
Stereo Equipment								
Portable/Boom Box	80.3	12.4	14.1	14.2	10.4	10.8	18.2	4.2
Compact Stereo System	26.1	3.9	4.6	4.6	3.6	3.0	6.5	7.4
Component Stereo System	36.5	5.7	6.9	5.8	4.4	5.1	8.7	6.3
Other 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
Clothes Washers and Dryers								
Clothes Washer	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 ¹	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	
Clothes Dryer	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
Water Heater Equipment								
Water Heaters	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
Water Heater (for one housing unit)	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
Heaters (other)	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.

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		1990 to 2001 ¹	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	
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
Other Appliances								
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 ⁴	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

¹ 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.

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.