

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

Appliance Types and Characteristics	Total	Climate Zone ¹					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	
Total	107.0	9.2	28.6	24.0	21.0	24.1	7.8
Kitchen Appliances							
Cooking Appliances							
Oven	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
Most Used Oven	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
Most Used Self-Cleaning Oven ...	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
Range	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
Most Used Range	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
Built-in/Stove-top Grill	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
Refrigerators and Freezers							
Refrigerators	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
Most-Used Refrigerator							
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
Type of Refrigerator							
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.

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Appliance Types and Characteristics	Total	Climate Zone ¹					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	
Age of Refrigerator							
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
Size of Refrigerator							
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
Through-the-Door Ice/Water Service							
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
Freezer (separate)							
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
Most-Used Freezer							
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
Type of Freezer							
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
Age of Freezer							
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
Freezer Size							
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
Other Kitchen Appliances							
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,
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Appliance Types and Characteristics	Total	Climate Zone ¹					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	
Households With Electric							
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
Households Using Electric							
Air-Conditioning ²	80.8	5.3	20.5	19.9	13.4	21.8	8.2
Type of Electric Air-Conditioning Used							
Central Air-Conditioning ³	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
Entertainment							
Color Television Sets							
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 or More	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
Large Screen Television Sets							
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 or More	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
Cable/Satellite Dish Antennas							
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
Video Cassette Recorders (VCRs) and DVD Players							
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 or More	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
Stereo Equipment							
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
Clothes Washers and Dryers							
Clothes Washer							
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

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

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		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
Other Appliances							
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 ⁴	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

¹ One of five climatically distinct areas, determined according to the 30-year average (1961-1990) of the annual heating and cooling degree-days. For this report, the heating or cooling degree-days are a measure of how cold or how hot a location is over a period of one year, relative to a base temperature of 65 degrees Fahrenheit. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station.

² 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.