

Table HC9.9 Home Appliances Characteristics by Climate Zone, 2005
Million U.S. Housing Units

Home Appliances Characteristics	Housing Units (millions)	Climate Zone ¹					2,000 CDD or More and Less than 4,000 HDD
		Less than 2,000 CDD and --					
		Greater than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Less than 4,000 HDD		
Total U.S.	111.1	10.9	26.1	27.3	24.0	22.8	
Cooking Appliances							
Conventional Ovens							
Use an Oven.....	109.6	10.9	25.7	27.1	23.4	22.4	
1.....	103.3	10.2	24.3	25.3	22.2	21.3	
2 or More.....	6.2	0.6	1.5	1.8	1.2	1.1	
Do Not Use an Oven.....	1.5	Q	0.3	Q	0.6	0.4	
Most-Used Oven Fuel							
Electric.....	67.9	7.2	14.1	16.7	13.2	16.7	
Natural Gas.....	36.4	2.5	10.6	9.6	9.0	4.8	
Propane/LPG.....	5.2	1.2	1.0	0.8	1.2	1.0	
Self-Cleaning Oven							
Use a Self-Cleaning Oven.....	62.9	7.5	15.6	15.1	11.7	13.0	
Continuous.....	9.3	1.0	2.7	2.1	2.0	1.6	
Manual Start.....	53.6	6.5	12.9	13.0	9.7	11.5	
Do Not Use a Self-Cleaning Oven.....	46.7	3.4	10.2	12.0	11.7	9.4	
Cooking Ranges							
Use a Cooking Range.....	109.8	10.9	25.9	27.2	23.4	22.5	
1.....	105.5	10.5	24.7	25.8	22.7	21.9	
2 or More.....	4.3	0.4	1.2	1.4	0.7	0.6	
Do Not Use a Cooking Range.....	1.2	Q	0.2	Q	0.6	0.3	
Most-Used Cooking Range Fuel							
Electric.....	65.2	7.0	13.7	16.2	12.3	16.0	
Natural Gas.....	39.0	2.7	11.0	10.1	9.7	5.5	
Propane/LPG.....	5.6	1.2	1.1	0.9	1.3	1.0	
Built-in/Stove-top Grills							
Use a Built-in/Stove-top Grill.....	4.9	0.4	0.8	2.0	1.1	0.6	
Do Not Use a Built-in/Stove-top Grill.....	106.2	10.6	25.2	25.3	22.9	22.2	
Built-in/Stove-top Grill Fuel							
Electric.....	2.5	0.3	0.4	0.7	0.7	0.5	
Natural Gas.....	2.2	Q	Q	1.3	0.4	Q	
Propane/LPG.....	Q	Q	Q	Q	Q	Q	
Refrigerators							
Use a Refrigerator.....	111.0	10.9	26.1	27.3	23.9	22.8	
1.....	86.3	7.7	20.1	20.8	19.2	18.6	
2 or More.....	24.6	3.3	5.9	6.5	4.8	4.2	
Do Not Use a Refrigerator.....	Q	N	Q	Q	Q	Q	
Most-Used Refrigerator Defrost Method							
Frost-Free.....	102.8	10.1	23.7	24.9	22.6	21.4	
Manual.....	8.0	0.9	2.2	2.3	1.3	1.3	
Type of Most-Used Refrigerator							
2-Doors (top and bottom).....	64.6	7.0	16.4	16.7	12.9	11.6	
2-Doors (side-by-side).....	33.0	2.8	6.2	7.5	8.2	8.4	
Full-Size (single door).....	12.1	1.1	3.0	2.8	2.5	2.6	
Half-Size/Other.....	1.0	Q	0.3	Q	0.4	Q	

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Age of Most-Used Refrigerator							
Less than 2 Years.....	19.0	1.4	4.3	4.5	5.0	3.8	
2 to 4 Years.....	22.7	2.2	4.8	5.4	4.8	5.6	
5 to 9 Years.....	30.9	3.3	6.8	7.3	7.2	6.2	
10 to 19 Years.....	25.7	2.7	6.5	6.8	5.1	4.6	
20 Years or More.....	6.1	0.8	1.7	1.6	0.9	1.2	
Don't Know.....	6.7	0.5	2.0	1.8	1.0	1.4	
Size of Most-Used Refrigerator							
Very Small (Less than 11 cf).....	0.7	Q	Q	Q	Q	Q	
Small (11-14 cf).....	5.4	0.5	1.4	1.7	0.8	0.9	
Medium (15-18 cf).....	53.8	5.0	13.8	13.6	10.3	11.0	
Large (19-22 cf).....	42.7	4.5	9.0	9.8	10.6	8.7	
Very Large (More than 22 cf).....	8.5	0.8	1.7	2.0	2.0	2.0	
Through-the-Door Ice and Water Service							
Yes.....	29.8	2.5	5.1	6.7	7.9	7.6	
No.....	81.1	8.5	20.9	20.5	16.0	15.1	
Second Refrigerator							
Use a Second Refrigerator.....	24.6	3.3	5.9	6.5	4.8	4.2	
Do Not Use a Second Refrigerator.....	86.3	7.7	20.1	20.8	19.2	18.6	
Type of Second Refrigerator							
2-Doors (top and bottom).....	7.5	1.0	2.2	2.2	1.1	0.9	
2-Doors (side-by-side).....	8.6	1.1	1.5	2.2	2.0	1.7	
Full-Size (single door).....	2.8	0.3	0.7	0.6	0.6	0.5	
Half-Size/Other.....	5.1	0.7	1.3	1.2	1.0	0.9	
Age of Second Refrigerator							
Less than 2 Years.....	2.3	0.3	0.4	0.6	0.5	0.4	
2 to 4 Years.....	3.8	0.4	0.8	1.1	0.8	0.8	
5 to 9 Years.....	5.3	0.7	1.1	1.4	1.2	0.9	
10 to 19 Years.....	8.6	1.1	2.2	2.3	1.7	1.3	
20 Years or More.....	4.1	0.8	1.3	0.8	0.6	0.6	
Don't Know.....	0.5	Q	Q	Q	Q	Q	
Size of Second Refrigerator							
Very Small (Less than 11 cf).....	3.4	0.4	0.8	1.0	0.6	0.5	
Small (11-14 cf).....	3.6	0.5	1.1	0.8	0.5	0.6	
Medium (15-18 cf).....	10.5	1.6	2.4	2.6	1.9	1.9	
Large (19-22 cf).....	6.2	0.7	1.5	1.8	1.5	0.7	
Very Large (More than 22 cf).....	1.0	Q	Q	Q	Q	0.4	
Separate Freezers							
Do Not Use a Separate Freezer.....	76.0	5.7	17.7	19.1	17.3	16.1	
Use a Separate Freezer.....	35.1	5.2	8.3	8.2	6.7	6.7	
1.....	32.2	4.6	7.7	7.5	6.3	6.1	
2 or More.....	2.9	0.6	0.6	0.7	0.4	0.6	
Most-Used Freezer Defrost Method							
Frost-Free.....	14.3	1.8	3.0	3.1	3.2	3.1	
Manual.....	20.8	3.4	5.3	5.1	3.5	3.6	
Type of Most-Used Freezer							
Upright.....	17.0	2.5	4.3	4.2	3.3	2.7	
Chest.....	18.1	2.7	4.1	4.0	3.3	4.0	

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Age of Most-Used Freezer							
Less than 2 Years.....	3.5	0.5	0.8	0.8	0.8	0.7	
2 to 4 Years.....	6.0	0.7	1.2	1.3	1.3	1.5	
5 to 9 Years.....	7.8	1.0	2.0	1.6	1.4	1.9	
10 to 19 Years.....	9.3	1.3	2.2	2.2	2.1	1.4	
20 Years or More.....	7.6	1.5	1.9	2.1	1.0	1.1	
Don't Know.....	0.7	Q	Q	0.3	Q	Q	
Size of Most-Used Freezer							
Very Small (Less than 11 cf).....	3.1	0.5	0.9	0.8	0.3	0.5	
Small (11-14 cf).....	8.9	1.1	2.0	2.1	1.8	1.9	
Medium (15-18 cf).....	12.7	1.8	3.1	2.8	2.5	2.6	
Large (19-22 cf).....	8.0	1.2	1.9	1.8	1.5	1.5	
Very Large (More than 22 cf).....	2.5	0.6	0.4	0.7	0.5	0.3	
Other Kitchen Appliances							
Dishwasher							
Yes.....	64.7	6.7	14.8	15.2	14.1	13.8	
No.....	46.4	4.2	11.2	12.1	9.9	9.0	
Age of Dishwasher							
Less than 2 Years.....	11.5	1.3	2.7	2.6	2.5	2.3	
2 to 4 Years.....	14.6	1.6	3.3	2.8	2.8	4.1	
5 to 9 Years.....	19.2	2.1	4.1	5.0	4.6	3.3	
10 to 19 Years.....	12.8	1.3	2.9	3.3	2.9	2.5	
20 Years or More.....	3.3	0.3	0.9	0.7	0.6	0.8	
Don't Know.....	3.3	Q	0.9	0.9	0.7	0.7	
Electric Coffee Maker							
Yes.....	67.2	7.2	16.0	16.5	13.3	14.1	
No.....	43.9	3.7	10.1	10.8	10.6	8.7	
Electric Toaster Oven							
Yes.....	37.3	2.3	8.7	9.6	8.8	7.9	
No.....	73.8	8.6	17.4	17.7	15.2	14.9	
Microwave Oven							
Yes.....	97.7	10.3	22.9	24.1	20.8	19.6	
No.....	13.4	0.7	3.2	3.2	3.1	3.2	
Clothes Washers and Dryers							
Clothes Washer							
Do Not Use a Clothes Washer.....	19.3	1.1	5.2	5.7	3.9	3.3	
Use a Clothes Washer.....	91.8	9.8	20.9	21.6	20.0	19.5	
Top Loading.....	84.1	8.7	18.7	20.1	18.4	18.2	
Front Loading.....	7.7	1.2	2.2	1.4	1.6	1.3	
Age of Clothes Washer							
Less than 2 Years.....	15.7	1.6	3.5	3.6	3.7	3.3	
2 to 4 Years.....	21.1	2.0	4.2	4.7	5.1	5.1	
5 to 9 Years.....	28.9	3.0	6.3	6.6	6.0	6.9	
10 to 19 Years.....	19.9	2.6	5.2	5.1	4.0	3.0	
20 Years or More.....	4.1	0.5	1.0	1.1	0.7	0.7	
Don't Know.....	2.2	Q	0.6	0.5	0.5	0.5	

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Clothes Dryer						
Do Not Use a Clothes Dryer.....	23.6	1.3	5.7	7.3	4.6	4.6
Use a Clothes Dryer.....	87.5	9.6	20.3	20.0	19.3	18.2
Electric.....	67.2	7.0	13.6	16.6	13.7	16.3
Natural Gas.....	19.4	2.3	6.5	3.2	5.5	1.8
Propane/LPG.....	0.9	Q	Q	Q	Q	Q
Age of Clothes Dryer						
Less than 2 Years.....	14.0	1.4	3.5	2.8	3.3	2.9
2 to 4 Years.....	18.7	2.1	3.7	3.9	4.4	4.6
5 to 9 Years.....	27.9	2.9	6.1	6.3	6.1	6.5
10 to 19 Years.....	19.5	2.3	4.9	5.0	4.1	3.2
20 Years or More.....	5.1	0.7	1.4	1.5	0.9	0.7
Don't Know.....	2.3	0.2	0.7	0.6	0.5	0.4
Other Appliances						
Use Ceiling Fans.....	77.2	7.3	17.1	17.6	16.7	18.5
1.....	21.7	2.8	5.5	5.3	4.9	3.2
2.....	17.4	1.9	3.9	4.5	3.8	3.3
3.....	12.3	1.3	2.7	2.9	2.2	3.2
4 or More.....	25.8	1.4	5.0	4.8	5.7	8.9
Auto Block/Engine/Battery Heater.....	0.8	0.5	0.2	N	N	N
Electric Dehumidifier.....	13.3	3.0	5.6	3.4	0.7	0.5
Electric Humidifier.....	14.2	2.6	5.2	3.9	1.6	0.9
Evaporative/Swamp Cooler.....	3.4	0.3	0.8	Q	1.1	0.5
Filter Systems in Swimming Pools.....	8.3	0.5	1.5	1.5	2.2	2.7
Heated Aquarium.....	4.2	0.3	1.0	1.2	0.9	0.8
Outdoor Gas Light.....	1.3	Q	0.3	0.3	Q	0.4
Rechargeable Tools/Appliances.....	54.9	6.3	12.3	13.4	11.9	11.0
Well Water Pumps.....	14.1	3.5	3.4	2.5	2.1	2.6

1. One of five climatically distinct areas, determined according to the 30-year average (1971-2000) of the annual heating and cooling degree-days. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station.

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

N = No cases in reporting sample.

Notes: • Because of rounding, data may not sum to totals. • See Glossary for definition of terms used in these tables.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 2005 Residential Energy Consumption Survey.