

Preliminary data release date: March 2022

Final data release date: March 2023

Table HC3.7 Appliances in U.S. homes in the Northeast and Midwest regions, 2020

Number of housing units (million)

	Northeast Census Region			Midwest Census Region			
	Total U.S. ^a	Total Northeast	New England	Middle Atlantic	Total Midwest	East North Central	West North Central
All homes	123.53	21.92	5.88	16.04	27.04	18.55	8.50
Ranges (units with both an oven and a cooktop)							
Have a range	110.32	20.14	5.37	14.78	25.01	17.22	7.79
1	108.00	19.45	5.17	14.28	24.38	16.71	7.66
2 or more	2.32	0.69	0.19	0.50	0.63	0.51	0.13
Does not have a range	13.21	1.77	0.51	1.26	2.03	1.33	0.71
Most-used range fuel							
Electricity	65.56	8.89	3.19	5.70	14.25	8.81	5.44
Natural gas	34.68	8.62	1.46	7.16	8.63	6.90	1.73
Propane	4.82	1.38	0.50	0.88	1.04	0.67	0.37
Dual-fuel	5.26	1.26	0.22	1.05	1.08	0.84	0.25
Does not have a range	13.21	1.77	0.51	1.26	2.03	1.33	0.71
Most-used range usage: cooktop part							
0 times per week	7.04	1.32	0.27	1.05	1.47	1.00	0.47
1 to 3 times per week	15.12	2.58	0.49	2.09	3.64	2.61	1.03
4 to 7 times per week	49.49	8.90	2.31	6.59	11.34	7.92	3.42
8 to 14 times per week	26.49	4.99	1.62	3.37	6.16	4.13	2.04
15 or more times per week	12.18	2.35	0.68	1.68	2.40	1.57	0.83
Does not have a range	13.21	1.77	0.51	1.26	2.03	1.33	0.71
Most-used range usage: oven part							
0 times per week	15.60	2.93	0.58	2.35	2.81	2.04	0.78
1 to 3 times per week	53.94	9.56	2.44	7.12	12.49	8.66	3.84
4 to 7 times per week	34.25	6.37	1.99	4.38	8.23	5.55	2.69
8 to 14 times per week	5.43	1.02	0.32	0.70	1.34	0.89	0.44
15 or more times per week	1.11	0.27	0.04	0.23	0.13	0.09	0.04
Does not have a range	13.21	1.77	0.51	1.26	2.03	1.33	0.71
Separate cooktops							
Have a separate cooktop	17.52	2.34	0.62	1.72	2.92	1.88	1.04
1	17.10	2.28	0.61	1.66	2.82	1.80	1.02
2 or more	0.42	0.07	Q	Q	0.10	0.08	Q
Does not have a separate cooktop	106.01	19.58	5.25	14.33	24.12	16.66	7.46
Most-used separate cooktop fuel							
Electricity	8.81	1.15	0.36	0.79	1.61	0.89	0.72
Natural gas	7.67	1.00	0.18	0.83	1.18	0.91	0.27
Propane	1.04	0.19	0.09	0.10	0.13	Q	Q
Does not have a separate cooktop	106.01	19.58	5.25	14.33	24.12	16.66	7.46

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All homes	123.53	21.92	5.88	16.04	27.04	18.55	8.50
Most-used separate cooktop usage							
0 times per week	1.24	0.15	Q	0.12	0.31	0.24	0.07
1 to 3 times per week	1.94	0.21	0.05	0.17	0.28	0.17	0.11
4 to 7 times per week	7.75	1.05	0.26	0.79	1.29	0.85	0.43
8 to 14 times per week	4.34	0.58	0.22	0.36	0.67	0.40	0.27
15 or more times per week	2.25	0.36	0.07	0.28	0.38	0.22	0.15
Does not have a separate cooktop	106.01	19.58	5.25	14.33	24.12	16.66	7.46
Separate wall ovens							
Have a separate wall oven	19.40	2.63	0.69	1.94	3.10	2.09	1.01
1	14.74	2.04	0.44	1.60	2.28	1.54	0.74
2 or more	4.66	0.59	0.25	0.34	0.82	0.55	0.28
Does not have a separate wall oven	104.13	19.29	5.18	14.10	23.94	16.46	7.48
Most-used separate wall oven fuel							
Electricity	16.42	2.15	0.61	1.54	2.52	1.62	0.90
Natural gas	2.84	0.47	0.07	0.40	0.54	0.44	0.10
Propane	0.14	Q	Q	Q	Q	Q	Q
Does not have a separate wall oven	104.13	19.29	5.18	14.10	23.94	16.46	7.48
Most-used separate wall oven usage							
0 times per week	2.05	0.32	0.08	0.24	0.38	0.32	0.06
1 to 3 times per week	8.50	1.07	0.25	0.82	1.28	0.86	0.42
4 to 7 times per week	6.92	0.96	0.28	0.67	1.20	0.76	0.43
8 to 14 times per week	1.59	0.23	0.07	0.16	0.21	0.12	0.09
15 or more times per week	0.35	0.06	Q	Q	Q	Q	Q
Does not have a separate wall oven	104.13	19.29	5.18	14.10	23.94	16.46	7.48
Frequency of hot meals cooked							
No hot meals cooked	0.92	0.16	Q	0.13	0.17	0.12	Q
Less than once a week	2.47	0.31	0.10	0.21	0.53	0.42	0.10
About once a week	2.58	0.31	0.08	0.23	0.56	0.32	0.23
A few times each week	19.65	3.29	0.65	2.64	4.30	3.05	1.25
Once a day	30.23	5.64	1.55	4.09	6.99	4.75	2.23
2 times a day	44.71	7.88	2.22	5.67	9.83	6.61	3.22
3 or more times a day	22.98	4.33	1.25	3.07	4.67	3.27	1.40

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	Total U.S. ^a	Total Northeast	New England	Middle Atlantic	Total Midwest	East North Central	West North Central
All homes	123.53	21.92	5.88	16.04	27.04	18.55	8.50
Microwave ovens							
Have a microwave oven	118.65	20.61	5.62	14.99	26.18	17.89	8.29
1	113.18	19.54	5.32	14.21	24.82	16.93	7.90
2 or more	5.47	1.08	0.30	0.78	1.36	0.96	0.39
Does not have a microwave oven	4.88	1.31	0.25	1.05	0.86	0.66	0.20
Microwave oven usage							
0 times per week	1.41	0.30	0.03	0.27	0.29	0.21	0.07
1 to 3 times per week	9.05	2.03	0.44	1.58	1.85	1.38	0.48
4 to 7 times per week	38.95	7.20	1.88	5.31	8.18	5.52	2.66
8 to 14 times per week	31.10	5.15	1.46	3.70	7.16	4.86	2.30
15 or more times per week	38.14	5.93	1.81	4.13	8.71	5.92	2.79
Does not have a microwave oven	4.88	1.31	0.25	1.05	0.86	0.66	0.20
Outdoor grills and fuel							
Use an outdoor grill	69.52	11.22	3.45	7.77	16.93	11.72	5.21
Natural gas	4.71	0.81	0.15	0.65	0.96	0.73	0.24
Propane	42.09	8.48	2.85	5.63	10.20	7.01	3.19
Charcoal	22.72	1.93	0.45	1.48	5.77	3.98	1.79
Does not use an outdoor grill	54.01	10.70	2.42	8.28	10.11	6.83	3.28
Small kitchen appliances used at least once each week (more than one may apply)							
Toaster	76.14	13.30	3.71	9.59	18.87	12.77	6.10
Toaster oven	34.26	7.69	2.30	5.39	5.39	3.90	1.49
Coffee maker	92.49	16.16	4.52	11.64	21.03	14.42	6.61
Slow cooker	34.21	4.94	1.36	3.58	8.53	5.82	2.72
Instant pot	19.86	2.71	0.73	1.99	4.07	2.69	1.38
Rice cooker	16.55	2.46	0.66	1.79	2.22	1.63	0.59
Blender or juicer	37.67	6.96	1.84	5.13	6.57	4.67	1.90
Some other small kitchen appliance ^b	14.90	2.74	0.68	2.06	3.29	2.30	0.99
Refrigerators							
Use a refrigerator	122.86	21.78	5.83	15.95	26.88	18.43	8.45
1	80.33	14.82	4.16	10.66	16.70	11.62	5.09
2 or more	42.53	6.96	1.67	5.29	10.18	6.81	3.36
Does not use a refrigerator	0.66	0.14	Q	Q	0.16	0.12	0.05

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	Total U.S. ^a	Total Northeast	New England	Middle Atlantic	Total Midwest	East North Central	West North Central
All homes	123.53	21.92	5.88	16.04	27.04	18.55	8.50
Most-used refrigerator size							
Half-size or compact	1.16	0.21	Q	0.18	0.16	0.11	0.05
Small (less than 17.6 cubic feet)	6.06	1.42	0.40	1.02	1.26	0.90	0.35
Medium (17.6 to 22.5 cubic feet)	57.01	10.70	2.98	7.72	12.74	8.59	4.15
Large (22.6 to 29.5 cubic feet)	56.34	9.10	2.30	6.79	12.21	8.46	3.76
Very large (more than 29.5 cubic feet)	2.30	0.35	0.11	0.24	0.50	0.37	0.13
Does not use a refrigerator	0.66	0.14	Q	Q	0.16	0.12	0.05
Most-used refrigerator type							
Half-size or compact	1.16	0.21	Q	0.18	0.16	0.11	0.05
1 door	11.66	2.63	0.67	1.96	2.51	1.66	0.85
2 doors, top freezer	42.06	8.56	2.24	6.32	10.20	6.96	3.23
2 doors, bottom freezer	26.49	5.05	1.49	3.56	5.97	4.14	1.83
2 doors, side-by-side	35.31	4.36	1.14	3.22	6.71	4.65	2.06
3 or more doors	6.18	0.97	0.25	0.72	1.33	0.91	0.42
Does not use a refrigerator	0.66	0.14	Q	Q	0.16	0.12	0.05
Most-used refrigerator age							
Less than 2 years old	18.69	3.00	0.91	2.09	3.90	2.79	1.11
2 to 4 years old	29.23	5.32	1.48	3.83	5.74	3.94	1.79
5 to 9 years old	39.83	7.06	1.72	5.33	8.73	6.03	2.70
10 to 14 years old	20.81	3.90	1.06	2.84	4.80	3.13	1.68
15 to 19 years old	8.82	1.39	0.39	1.00	2.25	1.54	0.71
20 or more years old	5.49	1.12	0.27	0.86	1.45	1.00	0.45
Does not use a refrigerator	0.66	0.14	Q	Q	0.16	0.12	0.05
Most-used refrigerator through-the-door ice service							
Yes	48.15	5.86	1.48	4.38	9.21	6.38	2.82
No	74.72	15.92	4.35	11.57	17.67	12.05	5.62
Does not use a refrigerator	0.66	0.14	Q	Q	0.16	0.12	0.05
Second refrigerator							
Use a second refrigerator	42.53	6.96	1.67	5.29	10.18	6.81	3.36
Does not use a second refrigerator	80.99	14.96	4.20	10.76	16.87	11.73	5.13
Second refrigerator size							
Half-size or compact	10.09	1.72	0.51	1.20	2.47	1.71	0.75
Small (less than 17.6 cubic feet)	7.17	1.27	0.26	1.00	1.77	1.18	0.59
Medium (17.6 to 22.5 cubic feet)	17.14	2.74	0.60	2.14	4.33	2.90	1.44
Large (22.6 to 29.5 cubic feet)	7.86	1.20	0.29	0.92	1.56	1.00	0.56
Very large (more than 29.5 cubic feet)	0.27	Q	Q	Q	0.05	Q	Q
Does not use a second refrigerator	80.99	14.96	4.20	10.76	16.87	11.73	5.13

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All homes	123.53	21.92	5.88	16.04	27.04	18.55	8.50
Second refrigerator type							
Half-size or compact	10.09	1.72	0.51	1.20	2.47	1.71	0.75
1 door	7.51	1.35	0.30	1.05	1.79	1.22	0.57
2 doors, top freezer	15.53	2.85	0.65	2.21	4.23	2.86	1.37
2 doors, bottom freezer	2.08	0.32	0.06	0.26	0.49	0.28	0.21
2 doors, side-by-side	7.00	0.65	0.14	0.51	1.17	0.74	0.44
3 or more doors	0.34	0.07	Q	Q	Q	Q	Q
Does not use a second refrigerator	80.99	14.96	4.20	10.76	16.87	11.73	5.13
Second refrigerator age							
Less than 2 years old	4.82	0.82	0.20	0.62	1.03	0.74	0.30
2 to 4 years old	6.27	0.99	0.29	0.70	1.28	0.88	0.39
5 to 9 years old	11.05	1.80	0.46	1.34	2.56	1.77	0.79
10 to 14 years old	10.68	1.61	0.35	1.26	2.69	1.76	0.93
15 to 19 years old	5.13	0.96	0.20	0.75	1.27	0.80	0.47
20 or more years old	4.59	0.78	0.17	0.62	1.35	0.86	0.49
Does not use a second refrigerator	80.99	14.96	4.20	10.76	16.87	11.73	5.13
Second refrigerator location							
Basement	9.68	2.97	0.80	2.16	4.19	2.76	1.43
Garage	16.25	1.59	0.25	1.35	3.32	2.20	1.12
Outside	2.94	0.27	0.04	0.23	0.34	0.25	0.08
Main living area	13.23	2.12	0.57	1.55	2.29	1.57	0.72
Some other location	0.43	Q	Q	N	Q	Q	Q
Does not use a second refrigerator	80.99	14.96	4.20	10.76	16.87	11.73	5.13
Wine chiller							
Yes	5.69	0.98	0.23	0.75	1.06	0.80	0.27
No	117.84	20.94	5.65	15.29	25.98	17.75	8.23
Separate freezers							
Use a separate freezer	41.14	5.90	1.52	4.38	11.77	7.47	4.30
1	36.37	5.38	1.40	3.98	10.36	6.70	3.66
2 or more	4.78	0.51	0.11	0.40	1.41	0.77	0.64
Does not use a separate freezer	82.38	16.02	4.36	11.66	15.27	11.08	4.19

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All homes	123.53	21.92	5.88	16.04	27.04	18.55	8.50
Most-used separate freezer size							
Half-size or compact	4.47	0.58	0.21	0.37	1.18	0.83	0.34
Small (less than 17.6 cubic feet)	12.27	1.71	0.47	1.24	3.71	2.33	1.38
Medium (17.6 to 22.5 cubic feet)	15.80	2.35	0.60	1.76	4.37	2.60	1.76
Large (22.6 to 29.5 cubic feet)	7.88	1.20	0.22	0.98	2.33	1.58	0.75
Very large (more than 29.5 cubic feet)	0.72	0.06	Q	Q	0.18	0.12	0.07
Does not use a separate freezer	82.38	16.02	4.36	11.66	15.27	11.08	4.19
Most-used separate freezer type							
Upright	19.49	3.06	0.66	2.41	4.98	3.21	1.76
Chest	21.65	2.83	0.86	1.97	6.79	4.25	2.54
Does not use a separate freezer	82.38	16.02	4.36	11.66	15.27	11.08	4.19
Most-used separate freezer age							
Less than 2 years old	5.67	0.82	0.26	0.57	1.47	0.96	0.51
2 to 4 years old	6.58	0.91	0.30	0.61	1.70	1.15	0.54
5 to 9 years old	11.64	1.66	0.39	1.27	3.26	2.09	1.17
10 to 14 years old	8.44	1.17	0.28	0.89	2.48	1.59	0.89
15 to 19 years old	4.20	0.68	0.14	0.54	1.22	0.72	0.50
20 or more years old	4.61	0.65	0.15	0.50	1.64	0.95	0.69
Does not use a separate freezer	82.38	16.02	4.36	11.66	15.27	11.08	4.19
Most-used separate freezer defrosting							
Manual	21.90	3.24	0.89	2.35	6.65	4.09	2.57
Automatic	19.25	2.66	0.63	2.03	5.11	3.38	1.74
Does not use a separate freezer	82.38	16.02	4.36	11.66	15.27	11.08	4.19
Dishwashers and usage							
Have a dishwasher	89.79	14.17	3.99	10.18	18.67	12.48	6.19
Used 0 times per week	17.11	2.23	0.55	1.69	2.74	1.90	0.84
Used 1 time per week	13.86	2.19	0.58	1.61	2.91	2.02	0.88
Used 2 to 3 times per week	26.32	4.30	1.18	3.12	5.85	3.87	1.98
Used 4 to 6 times per week	19.34	3.19	1.05	2.14	4.40	2.81	1.58
Used 7 or more times per week	13.17	2.26	0.63	1.63	2.78	1.87	0.91
Does not have a dishwasher	33.74	7.75	1.89	5.86	8.37	6.07	2.30

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All homes	123.53	21.92	5.88	16.04	27.04	18.55	8.50
Dishwasher age							
Less than 2 years old	13.86	2.01	0.62	1.39	2.94	2.06	0.87
2 to 4 years old	21.09	3.44	1.02	2.42	4.09	2.82	1.27
5 to 9 years old	28.29	4.32	1.22	3.11	6.05	4.00	2.05
10 to 14 years old	15.19	2.64	0.69	1.95	3.21	2.08	1.12
15 to 19 years old	6.51	0.95	0.26	0.69	1.48	0.90	0.58
20 or more years old	4.84	0.81	0.18	0.63	0.90	0.62	0.28
Does not have a dishwasher	33.74	7.75	1.89	5.86	8.37	6.07	2.30
Most-used dishwasher cycle type							
Normal or default cycle <i>without</i> heated dry	13.22	2.19	0.73	1.46	2.96	1.96	1.00
Normal or default cycle <i>with</i> heated dry	46.03	7.68	2.07	5.61	9.81	6.51	3.30
Heavy or <i>pots and pans</i> cycle	5.49	0.66	0.18	0.48	1.31	0.90	0.41
Light or delicate cycle	1.23	0.22	0.07	0.14	0.35	0.26	0.10
Energy saver	4.85	0.82	0.29	0.53	1.14	0.74	0.39
Quick cycle	1.85	0.37	0.11	0.27	0.36	0.21	0.16
Does not have or use a dishwasher	50.85	9.98	2.43	7.55	11.11	7.97	3.14
Clothes washers							
Have a clothes washer at home	103.96	16.21	4.56	11.65	23.02	15.67	7.35
Top-loading	74.82	10.97	2.87	8.10	17.05	11.50	5.56
Front-loading	29.14	5.24	1.69	3.55	5.96	4.17	1.79
Does not have a clothes washer at home	19.57	5.71	1.32	4.39	4.03	2.88	1.15
Clothes washer age							
Less than 2 years old	17.32	2.75	0.79	1.96	3.61	2.46	1.15
2 to 4 years old	26.15	3.84	1.07	2.77	5.37	3.73	1.64
5 to 9 years old	34.70	5.41	1.49	3.92	7.56	5.23	2.33
10 to 14 years old	16.15	2.51	0.70	1.82	3.84	2.49	1.34
15 to 19 years old	5.80	0.98	0.33	0.65	1.47	1.06	0.41
20 or more years old	3.83	0.73	0.18	0.54	1.16	0.69	0.47
Does not have a clothes washer at home	19.57	5.71	1.32	4.39	4.03	2.88	1.15
Clothes washer usage							
0 loads per week	1.19	0.32	0.06	0.25	0.25	0.19	0.07
1 to 4 loads per week	70.32	10.95	3.02	7.93	15.13	10.45	4.68
5 to 9 loads per week	25.67	3.96	1.21	2.75	6.00	3.95	2.05
10 to 15 loads per week	5.90	0.85	0.23	0.62	1.41	0.94	0.47
More than 15 loads per week	0.88	0.14	0.03	0.11	0.22	0.15	0.07
Does not have a clothes washer at home	19.57	5.71	1.32	4.39	4.03	2.88	1.15

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Number of housing units (million)

	Northeast Census Region			Midwest Census Region			
	Total U.S. ^a	Total Northeast	New England	Middle Atlantic	Total Midwest	East North Central	West North Central
All homes	123.53	21.92	5.88	16.04	27.04	18.55	8.50
Usual water temperature setting for the wash cycle							
Hot	8.72	1.39	0.30	1.09	1.84	1.38	0.46
Warm	53.11	8.49	2.33	6.16	12.55	8.41	4.14
Cold	42.13	6.33	1.93	4.40	8.63	5.88	2.75
Does not have or use a clothes washer at home	19.57	5.71	1.32	4.39	4.03	2.88	1.15
Clothes dryer and fuel							
Have a clothes dryer at home	102.32	15.71	4.42	11.29	22.76	15.44	7.32
Electricity	82.21	11.27	3.76	7.50	16.56	10.42	6.14
Natural gas	18.89	4.09	0.56	3.53	5.77	4.69	1.09
Propane	1.22	0.35	0.10	0.25	0.43	0.34	0.09
Does not have a clothes dryer at home	21.20	6.21	1.45	4.76	4.28	3.10	1.18
Clothes dryer age							
Less than 2 years old	15.02	2.16	0.61	1.55	3.24	2.21	1.03
2 to 4 years old	23.44	3.32	0.89	2.42	4.64	3.30	1.34
5 to 9 years old	34.26	5.32	1.55	3.77	7.40	5.05	2.35
10 to 14 years old	17.68	2.85	0.76	2.09	4.28	2.79	1.49
15 to 19 years old	7.03	1.14	0.37	0.76	1.81	1.25	0.56
20 or more years old	4.89	0.93	0.23	0.70	1.40	0.84	0.55
Does not have a clothes dryer at home	21.20	6.21	1.45	4.76	4.28	3.10	1.18
Clothes dryer usage							
0 loads per week	1.92	0.46	0.08	0.37	0.49	0.36	0.13
1 to 4 loads per week	67.48	10.34	2.88	7.45	14.52	10.01	4.51
5 to 9 loads per week	25.93	3.95	1.19	2.76	6.06	3.96	2.11
10 to 15 loads per week	6.06	0.82	0.24	0.58	1.48	0.99	0.49
More than 15 loads per week	0.93	0.15	0.03	0.12	0.21	0.13	0.07
Does not have a clothes dryer at home	21.20	6.21	1.45	4.76	4.28	3.10	1.18

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-457A of the 2020 Residential Energy Consumption Survey

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

^a Total U.S. includes all primary occupied housing units in the 50 states and the District of Columbia. Vacant housing units, seasonal units, second homes, military houses, and group quarters are excluded.

^b Some other small kitchen appliance includes food processors, air fryers, stand mixers, bread makers, waffle makers, electric can openers, sandwich makers, coffee grinders, and many other reported appliances.

Q = Data withheld because either the relative standard error (RSE) was greater than 50% or fewer than 10 households in reporting sample.

N = No households in reporting sample.

Preliminary data release date: March 2022

Final data release date: March 2023

Relative standard errors (RSEs) for Table HC3.7 Appliances in U.S. homes in the Northeast and Midwest regions, 2020

RSEs for number of housing units

	Northeast Census Region			Midwest Census Region			
	Total U.S. ^a	Total Northeast	New England	Middle Atlantic	Total Midwest	East North Central	West North Central
All homes	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ranges (units with both an oven and a cooktop)							
Have a range	0.30	0.53	0.80	0.65	0.50	0.61	0.83
1	0.32	0.67	0.98	0.85	0.56	0.69	0.86
2 or more	5.29	10.10	14.73	13.33	12.30	14.31	20.08
Does not have a range	2.54	6.06	8.45	7.65	6.13	7.90	9.20
Most-used range fuel							
Electricity	0.70	2.09	2.55	3.02	1.70	2.57	2.22
Natural gas	1.15	1.89	4.79	2.23	2.28	2.70	4.95
Propane	3.78	5.76	7.20	8.23	8.10	12.21	12.18
Dual-fuel	3.47	7.29	17.21	7.74	10.81	13.38	20.75
Does not have a range	2.54	6.06	8.45	7.65	6.13	7.90	9.20
Most-used range usage: cooktop part							
0 times per week	3.97	9.10	16.80	10.93	6.98	10.16	10.73
1 to 3 times per week	2.43	4.91	9.20	6.02	5.21	6.72	7.95
4 to 7 times per week	1.01	2.59	3.56	3.05	2.46	3.20	3.20
8 to 14 times per week	1.41	3.54	4.85	4.91	3.17	4.76	4.89
15 or more times per week	2.84	4.73	7.12	6.59	5.70	7.64	7.78
Does not have a range	2.54	6.06	8.45	7.65	6.13	7.90	9.20
Most-used range usage: oven part							
0 times per week	2.41	5.12	9.46	5.87	5.22	6.77	8.37
1 to 3 times per week	0.93	2.25	3.32	2.79	2.21	2.73	2.90
4 to 7 times per week	1.23	2.35	3.85	3.07	2.06	2.83	3.60
8 to 14 times per week	4.39	8.22	13.81	10.67	8.75	10.45	11.87
15 or more times per week	8.88	16.86	35.04	18.60	23.00	32.40	36.79
Does not have a range	2.54	6.06	8.45	7.65	6.13	7.90	9.20
Separate cooktops							
Have a separate cooktop	1.98	5.02	7.10	6.27	4.69	6.41	7.13
1	2.00	5.13	7.02	6.45	5.04	6.82	7.26
2 or more	13.39	33.16	44.75	41.63	27.55	32.21	54.95
Does not have a separate cooktop	0.33	0.60	0.84	0.75	0.57	0.72	0.99
Most-used separate cooktop fuel							
Electricity	3.04	7.10	8.93	10.06	6.53	9.68	8.01
Natural gas	2.93	8.11	15.03	9.20	7.91	10.15	15.09
Propane	7.96	14.98	16.54	25.19	25.56	36.12	32.53
Does not have a separate cooktop	0.33	0.60	0.84	0.75	0.57	0.72	0.99

Preliminary data release date: March 2022

Final data release date: March 2023

Relative standard errors (RSEs) for Table HC3.7 Appliances in U.S. homes in the Northeast and Midwest regions, 2020

RSEs for number of housing units

	Northeast Census Region			Midwest Census Region			
	Total U.S. ^a	Total Northeast	New England	Middle Atlantic	Total Midwest	East North Central	West North Central
All homes	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Most-used separate cooktop usage							
0 times per week	8.05	23.94	39.50	26.25	17.62	22.03	29.43
1 to 3 times per week	5.70	17.55	28.59	20.92	14.67	21.17	21.05
4 to 7 times per week	3.84	7.37	13.04	8.83	7.47	11.11	11.02
8 to 14 times per week	3.73	10.99	14.09	14.10	10.81	15.62	15.10
15 or more times per week	5.16	14.69	21.90	17.31	12.10	17.92	19.60
Does not have a separate cooktop	0.33	0.60	0.84	0.75	0.57	0.72	0.99
Separate wall ovens							
Have a separate wall oven	2.24	5.17	7.07	6.68	4.84	6.29	7.86
1	2.46	6.09	8.03	7.51	5.92	7.68	8.86
2 or more	5.70	11.12	14.98	15.36	10.24	12.37	16.20
Does not have a separate wall oven	0.42	0.71	0.94	0.92	0.63	0.80	1.07
Most-used separate wall oven fuel							
Electricity	2.27	5.21	7.30	7.04	5.44	7.62	8.12
Natural gas	4.96	13.54	25.52	15.49	12.48	12.81	25.38
Propane	24.84	48.71	52.56	100.36	37.10	57.14	50.34
Does not have a separate wall oven	0.42	0.71	0.94	0.92	0.63	0.80	1.07
Most-used separate wall oven usage							
0 times per week	6.88	13.34	24.40	16.80	15.62	18.24	35.80
1 to 3 times per week	3.14	8.50	12.22	10.39	8.65	11.63	12.59
4 to 7 times per week	3.19	8.00	12.28	9.50	7.29	10.28	11.23
8 to 14 times per week	7.16	15.90	29.99	20.54	16.81	26.30	23.97
15 or more times per week	15.91	34.79	49.94	44.14	44.88	59.12	64.18
Does not have a separate wall oven	0.42	0.71	0.94	0.92	0.63	0.80	1.07
Frequency of hot meals cooked							
No hot meals cooked	11.24	27.02	63.45	30.24	28.23	34.44	40.66
Less than once a week	6.88	16.51	21.55	19.70	15.15	16.62	25.02
About once a week	6.73	17.86	21.62	21.58	12.83	19.04	18.37
A few times each week	1.68	4.44	7.44	5.33	4.86	5.35	7.08
Once a day	1.47	3.22	4.17	4.08	3.31	4.34	4.22
2 times a day	1.18	2.31	3.35	3.07	2.44	3.29	3.35
3 or more times a day	1.94	3.61	4.95	4.41	3.83	4.64	6.59

Preliminary data release date: March 2022

Final data release date: March 2023

Relative standard errors (RSEs) for Table HC3.7 Appliances in U.S. homes in the Northeast and Midwest regions, 2020

RSEs for number of housing units

	Northeast Census Region			Midwest Census Region			
	Total U.S. ^a	Total Northeast	New England	Middle Atlantic	Total Midwest	East North Central	West North Central
All homes	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Microwave ovens							
Have a microwave oven	0.20	0.50	0.63	0.74	0.35	0.49	0.43
1	0.26	0.60	0.96	0.90	0.56	0.74	0.76
2 or more	3.28	7.39	11.54	10.17	7.19	8.88	12.64
Does not have a microwave oven	4.85	7.81	13.97	10.58	10.50	13.26	17.45
Microwave oven usage							
0 times per week	8.23	17.90	37.71	20.26	18.83	24.95	31.82
1 to 3 times per week	3.27	7.01	9.02	8.64	8.65	10.19	13.46
4 to 7 times per week	0.96	2.20	4.10	2.88	2.64	3.34	4.15
8 to 14 times per week	1.53	3.09	5.10	4.14	3.19	3.94	4.64
15 or more times per week	1.25	2.72	4.39	3.47	2.69	3.63	4.05
Does not have a microwave oven	4.85	7.81	13.97	10.58	10.50	13.26	17.45
Outdoor grills and fuel							
Use an outdoor grill	0.70	1.59	2.21	1.95	1.47	1.84	1.90
Natural gas	3.76	10.70	15.93	11.46	8.75	11.44	14.32
Propane	1.10	2.03	2.37	2.73	2.08	2.83	3.15
Charcoal	1.66	6.05	9.54	7.27	2.77	3.61	4.86
Does not use an outdoor grill	0.90	1.66	3.15	1.83	2.46	3.16	3.02
Small kitchen appliances used at least once each week (more than one may apply)							
Toaster	0.64	1.57	2.01	2.05	1.17	1.54	1.81
Toaster oven	1.27	2.86	3.59	3.53	3.61	4.63	5.57
Coffee maker	0.49	1.04	1.69	1.36	0.98	1.23	1.93
Slow cooker	1.26	3.43	5.34	4.23	2.84	3.38	3.46
Instant pot	1.92	5.19	7.83	5.85	4.36	6.19	6.45
Rice cooker	1.85	5.61	8.70	6.54	6.16	8.17	8.23
Blender or juicer	1.29	2.50	4.32	3.24	3.02	3.86	4.76
Some other small kitchen appliance ^b	2.49	4.68	8.17	6.33	5.05	6.47	7.43
Refrigerators							
Use a refrigerator	0.06	0.16	0.34	0.19	0.15	0.22	0.19
1	0.45	0.99	1.57	1.21	1.25	1.42	1.81
2 or more	0.80	2.04	3.89	2.33	1.93	2.26	2.79
Does not use a refrigerator	11.04	24.70	44.01	32.52	25.07	34.58	34.41

Preliminary data release date: March 2022

Final data release date: March 2023

Relative standard errors (RSEs) for Table HC3.7 Appliances in U.S. homes in the Northeast and Midwest regions, 2020

RSEs for number of housing units

	Northeast Census Region			Midwest Census Region			
	Total U.S. ^a	Total Northeast	New England	Middle Atlantic	Total Midwest	East North Central	West North Central
All homes	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Most-used refrigerator size							
Half-size or compact	9.93	20.61	44.28	22.86	26.49	36.38	35.01
Small (less than 17.6 cubic feet)	3.63	7.14	9.15	9.97	8.66	11.65	13.01
Medium (17.6 to 22.5 cubic feet)	0.82	1.70	2.34	2.22	1.95	2.88	2.74
Large (22.6 to 29.5 cubic feet)	0.87	1.80	2.79	2.24	1.86	2.59	2.94
Very large (more than 29.5 cubic feet)	5.85	15.37	18.09	20.79	12.20	15.53	18.33
Does not use a refrigerator	11.04	24.70	44.01	32.52	25.07	34.58	34.41
Most-used refrigerator type							
Half-size or compact	9.93	20.61	44.28	22.86	26.49	36.38	35.01
1 door	2.73	4.62	7.73	5.60	6.34	8.18	7.73
2 doors, top freezer	1.01	2.13	3.79	2.72	1.94	2.68	2.91
2 doors, bottom freezer	1.57	2.67	3.99	3.72	2.98	3.78	4.60
2 doors, side-by-side	1.37	3.41	5.26	4.43	3.40	4.13	4.27
3 or more doors	3.43	8.01	11.57	9.45	7.54	9.80	12.01
Does not use a refrigerator	11.04	24.70	44.01	32.52	25.07	34.58	34.41
Most-used refrigerator age							
Less than 2 years old	2.29	4.95	7.66	6.09	4.92	5.64	8.56
2 to 4 years old	1.63	3.43	4.49	4.57	3.51	4.66	4.86
5 to 9 years old	1.25	2.63	3.97	3.10	3.00	3.71	4.35
10 to 14 years old	1.86	3.97	6.09	5.06	4.73	6.32	5.81
15 to 19 years old	2.94	7.99	9.52	10.20	7.24	9.22	9.97
20 or more years old	3.64	7.08	11.77	8.07	6.95	9.89	11.72
Does not use a refrigerator	11.04	24.70	44.01	32.52	25.07	34.58	34.41
Most-used refrigerator through-the-door ice service							
Yes	0.93	2.34	3.68	3.13	2.64	3.49	3.43
No	0.59	0.87	1.26	1.23	1.39	1.85	1.70
Does not use a refrigerator	11.04	24.70	44.01	32.52	25.07	34.58	34.41
Second refrigerator							
Use a second refrigerator	0.80	2.04	3.89	2.33	1.93	2.26	2.79
Does not use a second refrigerator	0.42	0.95	1.54	1.15	1.16	1.31	1.83

Preliminary data release date: March 2022

Final data release date: March 2023

Relative standard errors (RSEs) for Table HC3.7 Appliances in U.S. homes in the Northeast and Midwest regions, 2020

RSEs for number of housing units

	Northeast Census Region			Midwest Census Region			
	Total U.S. ^a	Total Northeast	New England	Middle Atlantic	Total Midwest	East North Central	West North Central
All homes	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Second refrigerator size							
Half-size or compact	2.46	5.88	9.41	7.82	5.30	6.28	9.63
Small (less than 17.6 cubic feet)	3.09	6.07	11.96	7.30	6.54	7.50	11.16
Medium (17.6 to 22.5 cubic feet)	1.51	3.53	7.49	4.58	3.46	4.55	4.84
Large (22.6 to 29.5 cubic feet)	2.84	6.71	11.39	8.33	8.34	11.21	10.05
Very large (more than 29.5 cubic feet)	19.90	45.14	64.15	59.96	35.58	70.51	38.30
Does not use a second refrigerator	0.42	0.95	1.54	1.15	1.16	1.31	1.83
Second refrigerator type							
Half-size or compact	2.46	5.88	9.41	7.82	5.30	6.28	9.63
1 door	3.11	6.79	10.46	7.37	7.14	8.71	10.17
2 doors, top freezer	1.73	4.56	7.59	5.35	3.80	4.95	5.16
2 doors, bottom freezer	6.47	14.52	20.92	15.98	12.37	17.45	15.91
2 doors, side-by-side	3.05	9.79	15.34	12.28	8.74	11.56	11.11
3 or more doors	13.40	27.70	51.99	33.29	38.48	100.81	41.63
Does not use a second refrigerator	0.42	0.95	1.54	1.15	1.16	1.31	1.83
Second refrigerator age							
Less than 2 years old	4.61	8.10	13.21	10.56	9.00	11.50	12.01
2 to 4 years old	3.38	7.45	13.52	10.10	8.33	11.22	11.01
5 to 9 years old	2.20	5.59	8.67	7.16	5.00	6.91	8.01
10 to 14 years old	2.97	5.84	10.06	6.62	5.77	8.09	5.89
15 to 19 years old	3.52	8.06	14.12	8.72	7.16	10.29	10.03
20 or more years old	3.68	8.94	17.75	10.42	7.56	10.10	8.58
Does not use a second refrigerator	0.42	0.95	1.54	1.15	1.16	1.31	1.83
Second refrigerator location							
Basement	2.51	4.20	5.98	5.00	3.43	4.78	5.48
Garage	1.74	5.21	8.68	5.86	4.12	5.49	5.39
Outside	4.81	15.96	30.07	17.27	16.67	18.97	27.56
Main living area	2.34	5.57	8.62	7.22	5.38	7.44	8.92
Some other location	12.09	47.80	47.80	0.00	40.65	46.41	79.00
Does not use a second refrigerator	0.42	0.95	1.54	1.15	1.16	1.31	1.83
Wine chiller							
Yes	4.15	8.34	12.67	10.09	8.84	10.56	13.89
No	0.20	0.39	0.51	0.50	0.36	0.47	0.45

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Relative standard errors (RSEs) for Table HC3.7 Appliances in U.S. homes in the Northeast and Midwest regions, 2020

RSEs for number of housing units

	Northeast Census Region			Midwest Census Region			
	Total U.S. ^a	Total Northeast	New England	Middle Atlantic	Total Midwest	East North Central	West North Central
All homes	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Separate freezers							
Use a separate freezer	1.18	2.69	3.69	3.40	1.77	2.29	2.59
1	1.30	2.99	4.09	3.86	1.95	2.46	2.84
2 or more	4.21	13.18	15.65	15.71	7.23	11.17	8.67
Does not use a separate freezer	0.59	0.99	1.28	1.28	1.37	1.54	2.66
Most-used separate freezer size							
Half-size or compact	3.80	10.42	15.07	14.68	8.38	11.62	11.05
Small (less than 17.6 cubic feet)	2.60	6.45	9.51	8.82	5.31	6.93	5.64
Medium (17.6 to 22.5 cubic feet)	2.05	5.51	8.29	7.90	4.21	5.56	4.70
Large (22.6 to 29.5 cubic feet)	2.94	6.46	11.35	7.52	6.03	7.89	7.08
Very large (more than 29.5 cubic feet)	8.77	29.34	34.48	44.52	21.06	30.46	26.81
Does not use a separate freezer	0.59	0.99	1.28	1.28	1.37	1.54	2.66
Most-used separate freezer type							
Upright	1.81	4.51	7.39	5.23	3.38	4.87	5.74
Chest	1.44	4.44	5.36	5.67	3.13	4.26	4.24
Does not use a separate freezer	0.59	0.99	1.28	1.28	1.37	1.54	2.66
Most-used separate freezer age							
Less than 2 years old	4.13	8.59	11.25	11.74	7.74	10.58	8.87
2 to 4 years old	3.75	8.16	12.21	11.72	8.16	10.08	10.54
5 to 9 years old	2.58	7.04	10.12	8.27	5.64	7.22	6.56
10 to 14 years old	2.89	7.66	12.34	10.17	5.49	7.19	7.64
15 to 19 years old	3.88	10.39	16.84	12.09	8.51	11.91	8.66
20 or more years old	3.73	8.90	16.02	11.03	7.41	10.53	7.96
Does not use a separate freezer	0.59	0.99	1.28	1.28	1.37	1.54	2.66
Most-used separate freezer defrosting							
Manual	1.66	4.25	6.61	5.17	3.03	4.44	4.08
Automatic	1.67	4.38	7.21	5.45	3.32	4.36	4.92
Does not use a separate freezer	0.59	0.99	1.28	1.28	1.37	1.54	2.66
Dishwashers and usage							
Have a dishwasher	0.42	1.17	1.67	1.40	1.30	1.85	1.58
Used 0 times per week	1.79	4.69	8.77	5.85	5.39	7.64	7.67
Used 1 time per week	2.42	6.20	8.08	8.05	5.39	6.49	8.13
Used 2 to 3 times per week	1.52	3.83	5.61	4.55	2.80	3.93	4.02
Used 4 to 6 times per week	1.87	3.82	5.27	5.02	3.16	4.24	4.41
Used 7 or more times per week	2.15	6.23	7.07	7.70	4.68	6.32	6.47
Does not have a dishwasher	1.12	2.14	3.53	2.43	2.89	3.81	4.24

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Relative standard errors (RSEs) for Table HC3.7 Appliances in U.S. homes in the Northeast and Midwest regions, 2020

RSEs for number of housing units

	Northeast Census Region			Midwest Census Region			
	Total U.S. ^a	Total Northeast	New England	Middle Atlantic	Total Midwest	East North Central	West North Central
All homes	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dishwasher age							
Less than 2 years old	2.31	4.36	8.01	6.02	5.08	6.44	7.67
2 to 4 years old	1.79	4.70	5.78	5.93	4.18	5.41	7.42
5 to 9 years old	1.26	3.77	4.59	4.86	3.26	5.26	4.14
10 to 14 years old	2.04	5.15	8.14	6.35	5.15	6.63	6.88
15 to 19 years old	4.12	8.16	12.35	10.39	9.01	11.33	10.91
20 or more years old	4.28	6.88	14.18	8.85	8.85	11.60	15.66
Does not have a dishwasher	1.12	2.14	3.53	2.43	2.89	3.81	4.24
Most-used dishwasher cycle type							
Normal or default cycle <i>without</i> heated dry	2.61	5.27	6.62	6.61	5.12	6.96	6.64
Normal or default cycle <i>with</i> heated dry	0.98	2.35	3.28	2.84	2.42	3.40	3.33
Heavy or <i>pots and pans</i> cycle	3.54	7.98	14.33	10.56	9.05	10.45	13.34
Light or delicate cycle	8.12	18.01	25.36	22.62	17.28	22.10	27.07
Energy saver	3.71	9.39	11.68	11.83	7.62	9.43	11.72
Quick cycle	6.24	14.44	20.52	16.24	16.02	20.74	19.96
Does not have or use a dishwasher	0.91	1.72	2.89	1.99	1.90	2.40	3.35
Clothes washers							
Have a clothes washer at home	0.30	0.95	1.34	1.10	0.65	0.81	0.96
Top-loading	0.58	1.75	2.63	2.05	1.40	1.99	2.15
Front-loading	1.53	3.26	3.81	4.48	3.58	4.80	5.01
Does not have a clothes washer at home	1.57	2.70	4.63	2.92	3.74	4.43	6.10
Clothes washer age							
Less than 2 years old	1.94	3.91	6.97	4.74	4.35	5.50	6.36
2 to 4 years old	1.50	4.05	5.46	5.05	3.53	4.89	5.41
5 to 9 years old	1.29	2.95	4.33	3.89	2.88	3.49	4.04
10 to 14 years old	1.95	5.58	6.02	7.55	4.39	6.16	6.08
15 to 19 years old	3.61	8.08	11.46	12.11	7.10	9.02	9.37
20 or more years old	4.62	11.21	14.40	12.97	7.42	10.26	10.66
Does not have a clothes washer at home	1.57	2.70	4.63	2.92	3.74	4.43	6.10

Preliminary data release date: March 2022

Final data release date: March 2023

Relative standard errors (RSEs) for Table HC3.7 Appliances in U.S. homes in the Northeast and Midwest regions, 2020

RSEs for number of housing units

	Northeast Census Region			Midwest Census Region			
	Total U.S. ^a	Total Northeast	New England	Middle Atlantic	Total Midwest	East North Central	West North Central
All homes	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Clothes washer usage							
0 loads per week	7.56	15.57	32.56	18.13	20.56	26.40	31.75
1 to 4 loads per week	0.66	1.70	2.80	2.20	1.57	1.91	2.75
5 to 9 loads per week	1.38	3.90	5.19	5.14	3.58	4.70	4.58
10 to 15 loads per week	2.91	8.49	12.01	9.73	7.68	9.75	11.44
More than 15 loads per week	9.41	19.79	34.92	23.51	20.22	27.76	29.95
Does not have a clothes washer at home	1.57	2.70	4.63	2.92	3.74	4.43	6.10
Usual water temperature setting for the wash cycle							
Hot	3.44	6.89	12.12	8.46	6.25	7.91	10.31
Warm	0.93	1.89	3.51	2.08	1.74	2.42	2.44
Cold	1.11	2.76	3.61	3.65	2.51	3.52	3.56
Does not have or use a clothes washer at home	1.57	2.70	4.63	2.92	3.74	4.43	6.10
Clothes dryer and fuel							
Have a clothes dryer at home	0.30	0.91	1.33	1.10	0.62	0.83	1.01
Electricity	0.51	1.48	1.77	2.03	1.29	1.91	1.75
Natural gas	1.44	2.81	7.60	3.24	3.07	3.61	7.06
Propane	8.40	12.72	19.97	13.74	14.22	16.65	23.00
Does not have a clothes dryer at home	1.47	2.31	4.05	2.62	3.27	4.11	6.27
Clothes dryer age							
Less than 2 years old	2.01	4.37	8.07	5.10	4.82	6.14	7.86
2 to 4 years old	1.65	4.35	6.06	5.02	3.61	4.93	6.04
5 to 9 years old	1.18	2.77	4.05	3.67	2.86	3.55	4.29
10 to 14 years old	1.85	4.61	5.89	5.77	3.83	5.25	5.98
15 to 19 years old	3.19	6.29	9.00	8.86	6.32	8.97	9.52
20 or more years old	3.15	8.33	12.10	10.45	8.02	11.08	8.90
Does not have a clothes dryer at home	1.47	2.31	4.05	2.62	3.27	4.11	6.27
Clothes dryer usage							
0 loads per week	6.35	14.05	28.54	15.25	15.68	20.03	22.62
1 to 4 loads per week	0.72	1.76	3.06	2.22	1.71	2.17	2.76
5 to 9 loads per week	1.58	3.85	5.59	4.82	3.49	4.59	4.25
10 to 15 loads per week	2.92	9.23	11.91	11.04	6.91	9.25	11.59
More than 15 loads per week	9.83	18.91	37.36	22.45	19.31	27.95	29.61
Does not have a clothes dryer at home	1.47	2.31	4.05	2.62	3.27	4.11	6.27

Preliminary data release date: March 2022

Final data release date: March 2023

Relative standard errors (RSEs) for Table HC3.7 Appliances in U.S. homes in the Northeast and Midwest regions, 2020

RSEs for number of housing units

	Northeast Census Region			Midwest Census Region			
	Total U.S. ^a	Total Northeast	New England	Middle Atlantic	Total Midwest	East North Central	West North Central
All homes	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-457A of the *2020 Residential Energy Consumption Survey*

Notes: See RECS Terminology for definition of terms used in these tables.

^a *Total U.S.* includes all primary occupied housing units in the 50 states and the District of Columbia. Vacant housing units, seasonal units, second homes, military houses, and group quarters are excluded.

^b *Some other small kitchen appliance* includes food processors, air fryers, stand mixers, bread makers, waffle makers, electric can openers, sandwich makers, coffee grinders, and many other reported appliances.