Preliminary data release date: May 2022 Final data release date: March 2023

Table HC8.8 Water heating in homes in the South and West regions, 2020

Number of housing units (million)

						West Census Region					
						Mountain					
Total U.S. ^a	Total South	South Atlantic	East South Central	West South Central	Total West		Mountain North	Mountain South	Pacific		
123.53	46.84	24.84	7.38	14.62	27.72	9.22	4.62	4.60	18.51		
59.33	14.14	5.97	2.01	6.15	17.63	5.61	3.21	2.40	12.01		
57.04	31.27	18.13	5.17	7.97	8.94	3.17	1.22	1.95	5.77		
4.12	1.27	0.60	0.20	0.48	0.92	0.37	0.15	0.22	0.55		
2.62	0.09	0.07	N	Q	0.07	Q	Q	Q	0.05		
0.41	Q	Q	N	N	0.17	Q	Q	Q	0.13		
13.28	5.25	3.09	0.79	1.38	3.21	1.27	0.63	0.64	1.94		
55.37	19.53	10.66	3.29	5.58	11.66	3.80	1.89	1.91	7.86		
46.85	19.47	9.58	2.97	6.91	10.58	3.55	1.81	1.74	7.04		
8.03	2.60	1.52	0.33	0.75	2.26	0.60	0.28	0.32	1.67		
17.65	6.80	3.64	0.96	2.19	3.95	1.66	0.78	0.88	2.29		
22.49	9.11	4.74	1.45	2.92	4.79	1.91	0.93	0.99	2.88		
38.96	15.44	7.81	2.49	5.14	7.96	2.86	1.41	1.45	5.11		
25.10	8.91	4.90	1.57	2.44	6.38	1.59	0.89	0.70	4.79		
10.35	3.69	2.13	0.50	1.06	2.51	0.73	0.37	0.36	1.78		
8.98	2.89	1.62	0.41	0.86	2.12	0.46	0.23	0.23	1.66		
2.34	0.90	0.19	0.08	0.64	0.66	0.23	0.15	0.08	0.43		
2.92	1.75	0.73	0.37	0.65	0.56	0.15	0.08	0.07	0.41		
0.48	0.18	Q	Q	0.11	0.08	Q	Q	Q	0.05		
117.78	44.00	23.88	6.91	13.22	26.43	8.82	4.37	4.45	17.61		
	U.S. ^a 123.53 59.33 57.04 4.12 2.62 0.41 13.28 55.37 46.85 8.03 17.65 22.49 38.96 25.10 10.35 8.98 2.34 2.92	U.S. a South 123.53	U.S.a South Atlantic 123.53 46.84 24.84 59.33 14.14 5.97 57.04 31.27 18.13 4.12 1.27 0.60 2.62 0.09 0.07 0.41 Q Q 13.28 5.25 3.09 55.37 19.53 10.66 46.85 19.47 9.58 8.03 2.60 1.52 17.65 6.80 3.64 22.49 9.11 4.74 38.96 15.44 7.81 25.10 8.91 4.90 10.35 3.69 2.13 8.98 2.89 1.62 2.34 0.90 0.19 2.92 1.75 0.73 0.48 0.18 Q	Total U.S.a Total South South Atlantic South Central 123.53 46.84 24.84 7.38 59.33 14.14 5.97 2.01 57.04 31.27 18.13 5.17 4.12 1.27 0.60 0.20 2.62 0.09 0.07 N 0.41 Q Q N 13.28 5.25 3.09 0.79 55.37 19.53 10.66 3.29 46.85 19.47 9.58 2.97 8.03 2.60 1.52 0.33 17.65 6.80 3.64 0.96 22.49 9.11 4.74 1.45 38.96 15.44 7.81 2.49 25.10 8.91 4.90 1.57 10.35 3.69 2.13 0.50 8.98 2.89 1.62 0.41 2.34 0.90 0.19 0.08 2.92 1.75 0.73 0.37 </td <td>Total U.S.a Total South South Atlantic South Central Central South Central 123.53 46.84 24.84 7.38 14.62 59.33 14.14 5.97 2.01 6.15 57.04 31.27 18.13 5.17 7.97 4.12 1.27 0.60 0.20 0.48 2.62 0.09 0.07 N Q 0.41 Q Q N N 13.28 5.25 3.09 0.79 1.38 55.37 19.53 10.66 3.29 5.58 46.85 19.47 9.58 2.97 6.91 8.03 2.60 1.52 0.33 0.75 17.65 6.80 3.64 0.96 2.19 22.49 9.11 4.74 1.45 2.92 38.96 15.44 7.81 2.49 5.14 25.10 8.91 4.90 1.57 2.44 10.35 3.69 2.13<td>Total U.S.a Total South South Atlantic South Central Central South West 123.53 46.84 24.84 7.38 14.62 27.72 59.33 14.14 5.97 2.01 6.15 17.63 57.04 31.27 18.13 5.17 7.97 8.94 4.12 1.27 0.60 0.20 0.48 0.92 2.62 0.09 0.07 N Q 0.07 0.41 Q Q N N 0.17 13.28 5.25 3.09 0.79 1.38 3.21 55.37 19.53 10.66 3.29 5.58 11.66 46.85 19.47 9.58 2.97 6.91 10.58 8.03 2.60 1.52 0.33 0.75 2.26 17.65 6.80 3.64 0.96 2.19 3.95 22.49 9.11 4.74 1.45 2.92 4.79 38.96 15.44 7.</td><td>Total U.S.* Total South Atlantic South Central South Central Total Central Total West Mountain 123.53 46.84 24.84 7.38 14.62 27.72 9.22 59.33 14.14 5.97 2.01 6.15 17.63 5.61 57.04 31.27 18.13 5.17 7.97 8.94 3.17 4.12 1.27 0.60 0.20 0.48 0.92 0.37 2.62 0.09 0.07 N Q 0.07 Q 0.41 Q Q N N 0.17 Q 13.28 5.25 3.09 0.79 1.38 3.21 1.27 55.37 19.53 10.66 3.29 5.58 11.66 3.80 46.85 19.47 9.58 2.97 6.91 10.58 3.55 8.03 2.60 1.52 0.33 0.75 2.26 0.60 17.65 6.80 3.64 0.96</td><td>Total U.S.ª Total South South Atlantic South Central Central South Central Central West Mountain Mountain North 123.53 46.84 24.84 7.38 14.62 27.72 9.22 4.62 59.33 14.14 5.97 2.01 6.15 17.63 5.61 3.21 57.04 31.27 18.13 5.17 7.97 8.94 3.17 1.22 4.12 1.27 0.60 0.20 0.48 0.92 0.37 0.15 2.62 0.09 0.07 N Q 0.07 Q Q 0.41 Q Q N N 0.17 Q Q 13.28 5.25 3.09 0.79 1.38 3.21 1.27 0.63 55.37 19.53 10.66 3.29 5.58 11.66 3.80 1.89 46.85 19.47 9.58 2.97 6.91 10.58 3.55 1.81 8.03 2.60 1.52</td><td>Total U.S.* Total South South U.S.* South Atlantic Central Central South Central Central West Mountain Mountain North South South Mountain North South South 123.53 46.84 24.84 7.38 14.62 27.72 9.22 4.62 4.60 59.33 14.14 5.97 2.01 6.15 17.63 5.61 3.21 2.40 57.04 31.27 18.13 5.17 7.97 8.94 3.17 1.22 1.95 4.12 1.27 0.60 0.20 0.48 0.92 0.37 0.15 0.22 2.62 0.09 0.07 N Q 0.07 Q Q Q 0.41 Q Q N N 0.17 Q Q Q 13.28 5.25 3.09 0.79 1.38 3.21 1.27 0.63 0.64 55.37 19.53 10.66 3.29 5.58 11.66 3.80 1.89 1.91 46.85 19.47 <td< td=""></td<></td></td>	Total U.S.a Total South South Atlantic South Central Central South Central 123.53 46.84 24.84 7.38 14.62 59.33 14.14 5.97 2.01 6.15 57.04 31.27 18.13 5.17 7.97 4.12 1.27 0.60 0.20 0.48 2.62 0.09 0.07 N Q 0.41 Q Q N N 13.28 5.25 3.09 0.79 1.38 55.37 19.53 10.66 3.29 5.58 46.85 19.47 9.58 2.97 6.91 8.03 2.60 1.52 0.33 0.75 17.65 6.80 3.64 0.96 2.19 22.49 9.11 4.74 1.45 2.92 38.96 15.44 7.81 2.49 5.14 25.10 8.91 4.90 1.57 2.44 10.35 3.69 2.13 <td>Total U.S.a Total South South Atlantic South Central Central South West 123.53 46.84 24.84 7.38 14.62 27.72 59.33 14.14 5.97 2.01 6.15 17.63 57.04 31.27 18.13 5.17 7.97 8.94 4.12 1.27 0.60 0.20 0.48 0.92 2.62 0.09 0.07 N Q 0.07 0.41 Q Q N N 0.17 13.28 5.25 3.09 0.79 1.38 3.21 55.37 19.53 10.66 3.29 5.58 11.66 46.85 19.47 9.58 2.97 6.91 10.58 8.03 2.60 1.52 0.33 0.75 2.26 17.65 6.80 3.64 0.96 2.19 3.95 22.49 9.11 4.74 1.45 2.92 4.79 38.96 15.44 7.</td> <td>Total U.S.* Total South Atlantic South Central South Central Total Central Total West Mountain 123.53 46.84 24.84 7.38 14.62 27.72 9.22 59.33 14.14 5.97 2.01 6.15 17.63 5.61 57.04 31.27 18.13 5.17 7.97 8.94 3.17 4.12 1.27 0.60 0.20 0.48 0.92 0.37 2.62 0.09 0.07 N Q 0.07 Q 0.41 Q Q N N 0.17 Q 13.28 5.25 3.09 0.79 1.38 3.21 1.27 55.37 19.53 10.66 3.29 5.58 11.66 3.80 46.85 19.47 9.58 2.97 6.91 10.58 3.55 8.03 2.60 1.52 0.33 0.75 2.26 0.60 17.65 6.80 3.64 0.96</td> <td>Total U.S.ª Total South South Atlantic South Central Central South Central Central West Mountain Mountain North 123.53 46.84 24.84 7.38 14.62 27.72 9.22 4.62 59.33 14.14 5.97 2.01 6.15 17.63 5.61 3.21 57.04 31.27 18.13 5.17 7.97 8.94 3.17 1.22 4.12 1.27 0.60 0.20 0.48 0.92 0.37 0.15 2.62 0.09 0.07 N Q 0.07 Q Q 0.41 Q Q N N 0.17 Q Q 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Total U.S.* Total South Atlantic South Central South Central Total Central Total West Mountain 123.53 46.84 24.84 7.38 14.62 27.72 9.22 59.33 14.14 5.97 2.01 6.15 17.63 5.61 57.04 31.27 18.13 5.17 7.97 8.94 3.17 4.12 1.27 0.60 0.20 0.48 0.92 0.37 2.62 0.09 0.07 N Q 0.07 Q 0.41 Q Q N N 0.17 Q 13.28 5.25 3.09 0.79 1.38 3.21 1.27 55.37 19.53 10.66 3.29 5.58 11.66 3.80 46.85 19.47 9.58 2.97 6.91 10.58 3.55 8.03 2.60 1.52 0.33 0.75 2.26 0.60 17.65 6.80 3.64 0.96	Total U.S.ª Total South South Atlantic South Central Central South Central Central West Mountain Mountain North 123.53 46.84 24.84 7.38 14.62 27.72 9.22 4.62 59.33 14.14 5.97 2.01 6.15 17.63 5.61 3.21 57.04 31.27 18.13 5.17 7.97 8.94 3.17 1.22 4.12 1.27 0.60 0.20 0.48 0.92 0.37 0.15 2.62 0.09 0.07 N Q 0.07 Q Q 0.41 Q Q N N 0.17 Q Q 13.28 5.25 3.09 0.79 1.38 3.21 1.27 0.63 55.37 19.53 10.66 3.29 5.58 11.66 3.80 1.89 46.85 19.47 9.58 2.97 6.91 10.58 3.55 1.81 8.03 2.60 1.52	Total U.S.* Total South South U.S.* South Atlantic Central Central South Central Central West Mountain Mountain North South South Mountain North South South 123.53 46.84 24.84 7.38 14.62 27.72 9.22 4.62 4.60 59.33 14.14 5.97 2.01 6.15 17.63 5.61 3.21 2.40 57.04 31.27 18.13 5.17 7.97 8.94 3.17 1.22 1.95 4.12 1.27 0.60 0.20 0.48 0.92 0.37 0.15 0.22 2.62 0.09 0.07 N Q 0.07 Q Q Q 0.41 Q Q N N 0.17 Q Q Q 13.28 5.25 3.09 0.79 1.38 3.21 1.27 0.63 0.64 55.37 19.53 10.66 3.29 5.58 11.66 3.80 1.89 1.91 46.85 19.47 <td< td=""></td<>		

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 the definitions 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.

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

N = No households in reporting sample.

Preliminary data release date: May 2022 Final data release date: March 2023

Relative standard errors (RSEs) for Table HC8.8 Water heating in homes in the South and West regions, 2020

RSEs for number of housing units

	South Census Region				West Census Region					
							Mountain			
	Total U.S. ^a	Total South	South Atlantic	East South Central	West South Central	Total West	Total Mountain	Mountain North	Mountain South	Pacific
All homes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fuel used by main water heater										
Natural gas	0.75	1.97	3.09	4.31	3.25	1.13	1.76	2.18	3.15	1.61
Electricity	0.80	1.02	1.10	1.81	2.49	2.17	3.33	5.47	3.62	3.01
Propane	4.44	7.96	11.93	16.91	13.07	8.94	12.17	22.87	14.05	12.68
Fuel oil or kerosene	5.20	27.75	28.64	0.00	81.12	26.07	61.50	75.23	101.21	26.32
Some other fuel	16.08	41.13	41.13	0.00	0.00	17.76	40.42	65.38	49.68	20.95
Size of main water heater										
Small (30 gallons or less)	2.50	4.32	5.89	8.91	7.06	4.84	6.48	9.65	8.76	6.48
Medium (31 to 49 gallons)	1.02	1.68	2.46	3.64	3.12	2.14	2.94	4.12	4.24	2.66
Large (50 gallons or more)	1.04	1.69	2.74	3.75	2.18	2.55	3.26	4.54	4.77	3.24
Tankless	3.52	5.43	7.45	12.46	9.54	6.75	10.24	13.91	13.64	7.64
Age of main water heater										
Less than 2 years old	2.02	4.00	5.60	8.26	6.15	3.57	5.69	8.72	6.74	5.84
2 to 4 years old	1.87	2.68	4.25	5.28	4.27	3.52	4.86	7.34	7.60	4.63
5 to 9 years old	1.12	1.86	2.69	4.15	3.66	2.46	4.27	6.37	5.70	3.52
10 to 14 years old	1.66	2.89	3.76	6.19	5.68	3.27	6.18	8.24	8.91	4.00
15 to 19 years old	2.95	4.59	6.88	9.77	9.51	5.80	8.69	10.29	13.31	7.48
20 years or more	3.03	5.39	7.35	10.56	10.31	6.31	11.86	14.79	17.09	7.93
Fuel used by secondary water heater										
Natural gas	5.83	8.25	21.76	27.01	9.50	10.71	10.79	15.85	23.18	15.80
Electricity	4.87	6.69	9.92	13.04	10.91	9.87	16.99	24.82	25.97	13.63
Some other fuel	12.64	17.71	32.71	49.82	26.60	31.78	57.64	84.75	72.56	31.50
Does not have a secondary water										
heater	0.17	0.29	0.33	0.77	0.65	0.35	0.40	0.71	0.56	0.48

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 the definitions 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.