

Table HC1.9 Fuels used and end uses in U.S. homes, by home size, 2020

	Number of housing units (million)						
	Total U.S. ^a	Size of home in square feet ^b					
		Less than than 1,000	1,000 to 1,499	1,500 to 1,999	2,000 to 2,499	2,500 to 2,999	3,000 or more
All homes	123.53	30.01	28.08	22.22	15.62	10.31	17.29
Fuels used for any use (more than one may apply)							
Electricity	123.53	30.01	28.08	22.22	15.62	10.31	17.29
Natural gas	75.31	16.76	15.96	13.92	9.85	7.09	11.73
Propane ^c	11.14	1.47	1.88	2.11	1.83	1.13	2.72
Wood	11.05	0.99	1.76	2.50	1.91	1.27	2.62
Fuel oil or kerosene	5.68	0.98	0.79	1.19	0.98	0.61	1.13
Electricity end uses (more than one may apply)							
Space heating	64.84	18.11	15.84	11.32	7.59	4.55	7.42
Main	42.57	14.23	11.37	6.70	4.09	2.31	3.88
Secondary	31.57	6.40	7.07	6.27	4.58	2.80	4.46
Air conditioning	109.51	25.22	24.52	19.66	14.24	9.60	16.28
Water heating	57.72	16.49	14.94	9.84	6.59	3.71	6.15
Cooking ^d	83.94	20.69	19.15	14.18	10.67	7.09	12.16
Natural gas end uses (more than one may apply)							
Space heating	64.47	11.63	13.50	12.43	9.20	6.67	11.05
Main	62.71	11.46	13.09	12.16	8.98	6.51	10.51
Secondary	7.88	0.41	1.16	1.15	1.52	1.21	2.43
Water heating	59.56	12.57	12.20	11.17	7.96	5.93	9.72
Cooking ^d	47.10	10.63	9.97	8.79	5.92	4.18	7.61
Outdoor grilling	4.71	0.32	0.43	0.71	0.72	0.71	1.81
Propane end uses (more than one may apply)							
Space heating	7.68	0.80	1.34	1.45	1.33	0.87	1.88
Main	5.21	0.61	0.93	0.91	0.88	0.57	1.30
Secondary	3.01	0.20	0.52	0.62	0.53	0.36	0.78
Water heating	4.16	0.45	0.59	0.80	0.67	0.47	1.19
Cooking ^d	5.80	0.79	0.87	1.19	0.87	0.56	1.52
Outdoor grilling ^c	42.09	3.58	7.79	8.93	7.36	5.29	9.15
Wood end uses (more than one may apply)							
Space heating	11.02	0.97	1.75	2.50	1.91	1.27	2.62
Main	2.25	0.31	0.42	0.58	0.35	0.25	0.34
Secondary	8.83	0.66	1.34	1.93	1.58	1.03	2.28
Water heating	0.14	Q	Q	Q	Q	Q	Q
Fuel oil or kerosene end uses (more than one may apply)							
Space heating	5.39	0.92	0.71	1.14	0.93	0.60	1.09
Main	4.93	0.88	0.64	1.00	0.87	0.52	1.03
Secondary	0.48	Q	0.07	0.15	0.07	0.08	0.06
Water heating	2.68	0.51	0.35	0.51	0.48	0.24	0.59

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All homes	123.53	30.01	28.08	22.22	15.62	10.31	17.29

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.

^b Total square footage includes all basements, finished or conditioned (heated or cooled) areas of attics, and conditioned garage space that is attached to the home. Unconditioned and unfinished areas in attics and attached garages are excluded. The square footage of the home is based on respondent reports. Previous RECS cycles calculated square footage based on interviewer measurements. For households that did not report an exact square footage estimate, the square footage of the home was imputed based on a reported square footage range and/or characteristics of the home. See *2020 RECS Square Footage Methodology* for full details about data collection and processing.

^c Households that use propane only for outdoor grilling are excluded from the RECS estimate of households using propane.

^d *Cooking* includes fuels used by major cooking equipment (ovens, cooktops, and ranges).

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.

Relative standard errors (RSEs) for Table HC1.9 Fuels used and end uses in U.S. homes, by home size, 2020

	RSEs for number of housing units						
	Size of home in square feet ^b						
	Total U.S. ^a	Less than 1,000	1,000 to 1,499	1,500 to 1,999	2,000 to 2,499	2,500 to 2,999	3,000 or more
All homes	0.00	1.20	1.54	1.59	2.32	2.55	1.93
Fuels used for any use (more than one may apply)							
Electricity	0.00	1.20	1.54	1.59	2.32	2.55	1.93
Natural gas	0.57	1.93	2.35	1.97	2.98	3.20	2.63
Propane ^c	2.48	8.49	5.23	5.20	7.02	7.79	5.19
Wood	2.35	9.48	6.08	5.86	6.00	6.91	4.68
Fuel oil or kerosene	3.26	9.03	8.56	8.20	7.76	9.30	7.32
Electricity end uses (more than one may apply)							
Space heating	0.81	1.70	2.24	2.56	3.11	4.23	2.87
Main	0.92	1.79	2.47	3.65	4.17	5.52	3.95
Secondary	1.36	3.86	3.31	3.23	4.41	5.51	4.12
Air conditioning	0.35	1.46	1.67	1.79	2.31	2.54	2.10
Water heating	0.82	1.94	2.09	2.50	3.49	4.03	3.33
Cooking ^d	0.51	1.45	1.70	2.02	2.65	2.98	2.39
Natural gas end uses (more than one may apply)							
Space heating	0.73	2.49	2.52	2.17	3.06	3.29	2.53
Main	0.77	2.51	2.65	2.19	3.10	3.49	2.61
Secondary	3.01	12.90	8.44	6.94	6.15	7.54	4.53
Water heating	0.75	2.51	2.74	2.18	3.11	3.69	2.83
Cooking ^d	0.92	2.63	3.26	2.56	3.80	3.94	3.13
Outdoor grilling	3.76	20.02	15.18	9.73	9.15	10.94	5.55
Propane end uses (more than one may apply)							
Space heating	3.03	11.20	6.86	6.76	8.04	8.82	7.18
Main	3.76	11.30	7.72	8.04	10.14	11.27	8.85
Secondary	5.02	21.63	12.01	11.39	11.71	12.81	9.06
Water heating	4.42	16.15	11.07	8.78	11.93	14.32	7.88
Cooking ^d	3.46	11.44	8.89	7.61	9.11	11.45	6.48
Outdoor grilling ^c	1.10	4.29	2.99	2.97	2.92	3.65	2.48
Wood end uses (more than one may apply)							
Space heating	2.35	9.65	6.09	5.86	6.00	6.91	4.70
Main	4.88	14.65	11.01	11.69	11.96	16.10	14.44
Secondary	2.77	12.08	7.50	6.85	6.28	8.26	4.94
Water heating	21.82	48.13	46.62	73.78	54.01	47.60	48.43
Fuel oil or kerosene end uses (more than one may apply)							
Space heating	3.39	9.46	9.37	8.33	7.88	9.41	7.40
Main	3.50	10.10	9.87	8.95	8.02	8.92	7.49
Secondary	13.56	34.18	30.96	23.71	37.46	32.42	27.86
Water heating	5.25	14.69	16.28	13.25	10.33	15.34	9.49

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