

Preliminary data release date: May 2022

Final data release date: March 2023

Table HC1.3 Fuels used and end uses in U.S. homes, by year of construction, 2020

	Number of housing units (million)									
	Year of construction									
	Total U.S. ^a	Before 1950	1950 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2009	2010 to 2015	2016 to 2020
All homes	123.53	20.26	12.48	12.76	18.34	16.30	17.16	16.16	5.53	4.56
Fuels used for any use (more than one may apply)										
Electricity	123.53	20.26	12.48	12.76	18.34	16.30	17.16	16.16	5.53	4.56
Natural gas	75.31	15.34	9.23	8.78	9.89	8.22	9.36	9.03	2.97	2.48
Propane ^b	11.14	1.71	0.70	0.94	1.56	1.33	2.03	1.85	0.54	0.48
Wood	11.05	1.80	0.82	1.09	2.02	1.95	1.70	1.23	0.24	0.20
Fuel oil or kerosene	5.68	1.86	1.08	0.70	0.75	0.52	0.42	0.30	0.03	Q
Electricity end uses (more than one may apply)										
Space heating	64.84	9.50	5.69	6.14	10.25	9.53	9.10	8.69	3.24	2.70
Main	42.57	3.66	2.58	3.49	7.37	7.31	6.62	6.63	2.64	2.26
Secondary	31.57	6.72	3.82	3.43	4.63	3.83	3.88	3.26	1.13	0.88
Air conditioning	109.51	16.88	11.03	11.20	16.06	14.41	15.67	14.87	5.13	4.26
Water heating	57.72	7.17	4.44	4.97	9.60	9.19	8.44	8.03	3.16	2.70
Cooking ^c	83.94	10.68	7.42	8.38	13.48	12.67	12.31	11.91	3.91	3.18
Natural gas end uses (more than one may apply)										
Space heating	64.47	13.22	8.18	7.59	8.25	6.74	8.32	7.70	2.40	2.06
Main	62.71	13.03	8.01	7.48	8.06	6.53	8.06	7.38	2.30	1.87
Secondary	7.88	0.89	0.58	0.62	0.80	0.76	1.55	1.73	0.45	0.49
Water heating	59.56	11.83	7.39	7.12	7.93	6.42	7.76	7.30	2.12	1.69
Cooking ^c	47.10	11.11	6.08	5.53	5.52	4.37	5.26	5.46	1.98	1.78
Outdoor grilling	4.71	0.62	0.47	0.43	0.65	0.45	0.72	0.79	0.30	0.28
Propane end uses (more than one may apply)										
Space heating	7.68	1.19	0.47	0.61	1.07	0.90	1.43	1.32	0.36	0.32
Main	5.21	0.90	0.34	0.41	0.76	0.60	1.06	0.72	0.22	0.20
Secondary	3.01	0.33	0.15	0.24	0.39	0.35	0.51	0.72	0.16	0.16
Water heating	4.16	0.56	0.25	0.32	0.50	0.48	0.83	0.75	0.24	0.22
Cooking ^c	5.80	0.82	0.43	0.43	0.73	0.65	1.13	0.97	0.31	0.33
Outdoor grilling ^b	42.09	6.18	4.35	4.10	6.03	5.25	6.84	5.87	1.88	1.58
Wood end uses (more than one may apply)										
Space heating	11.02	1.79	0.81	1.09	2.02	1.94	1.70	1.23	0.23	0.20
Main	2.25	0.53	0.13	0.18	0.41	0.41	0.28	0.21	0.05	0.06
Secondary	8.83	1.28	0.68	0.92	1.63	1.54	1.44	1.02	0.18	0.15
Water heating	0.14	Q	Q	N	N	Q	Q	Q	Q	N
Fuel oil or kerosene end uses (more than one may apply)										
Space heating	5.39	1.80	1.05	0.65	0.70	0.48	0.41	0.26	0.03	Q
Main	4.93	1.66	1.00	0.62	0.64	0.44	0.32	0.23	0.02	Q
Secondary	0.48	0.16	Q	Q	0.07	0.05	0.08	Q	Q	N
Water heating	2.68	0.80	0.44	0.40	0.38	0.25	0.19	0.20	Q	Q

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	Total U.S. ^a	Before 1950	1950 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2009	2010 to 2015	2016 to 2020
All homes	123.53	20.26	12.48	12.76	18.34	16.30	17.16	16.16	5.53	4.56

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

^c 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.

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Relative standard errors (RSEs) for Table HC1.3 Fuels used and end uses in U.S. homes, by year of construction, 2020

RSEs for number of housing units

	Total U.S. ^a	Year of construction								
		Before 1950	1950 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2009	2010 to 2015	2016 to 2020
All homes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.84	3.44
Fuels used for any use (more than one may apply)										
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.84	3.44
Natural gas	0.57	1.19	1.56	1.59	1.80	2.09	2.19	1.58	4.34	4.91
Propane ^b	2.48	6.78	9.00	11.55	5.04	6.84	6.51	5.71	9.75	12.80
Wood	2.35	7.23	8.67	8.27	4.59	6.05	6.59	7.85	15.26	17.63
Fuel oil or kerosene	3.26	6.04	8.11	10.42	8.37	10.46	11.48	11.20	41.61	76.85
Electricity end uses (more than one may apply)										
Space heating	0.81	2.18	3.04	2.82	1.79	1.82	1.94	1.87	3.37	4.80
Main	0.92	4.25	5.74	4.25	2.68	2.21	2.53	2.59	4.40	5.37
Secondary	1.36	2.77	4.27	5.18	3.63	4.10	4.70	4.25	6.82	8.17
Air conditioning	0.35	0.97	0.94	1.01	0.78	0.91	0.76	0.54	3.08	3.82
Water heating	0.82	2.84	3.26	2.82	1.89	1.91	2.04	2.07	4.32	4.62
Cooking ^c	0.51	1.84	2.14	1.70	1.31	1.35	1.46	1.28	3.66	4.14
Natural gas end uses (more than one may apply)										
Space heating	0.73	1.55	2.16	2.34	2.49	2.14	2.36	2.03	5.19	6.18
Main	0.77	1.53	2.16	2.36	2.54	2.28	2.21	2.11	5.25	6.26
Secondary	3.01	10.07	13.10	10.30	9.76	10.04	7.81	5.78	11.37	9.50
Water heating	0.75	1.85	2.18	2.13	2.11	2.70	2.39	2.15	5.11	6.80
Cooking ^c	0.92	1.82	2.57	2.91	2.87	3.71	3.49	2.74	5.74	5.26
Outdoor grilling	3.76	12.05	13.27	13.89	10.25	12.68	10.33	9.39	13.21	16.62
Propane end uses (more than one may apply)										
Space heating	3.03	8.56	11.26	13.61	7.60	8.36	7.46	7.02	12.05	16.91
Main	3.76	10.07	13.88	16.60	9.53	8.79	8.74	9.81	15.40	21.48
Secondary	5.02	15.72	23.73	16.34	13.24	14.22	12.12	9.75	16.50	19.65
Water heating	4.42	11.65	15.59	16.88	12.11	12.42	8.96	10.26	15.58	17.23
Cooking ^c	3.46	9.55	11.58	16.70	8.04	9.89	8.30	7.42	13.08	16.13
Outdoor grilling ^b	1.10	2.79	3.77	4.18	3.01	2.97	2.81	2.93	5.40	6.34
Wood end uses (more than one may apply)										
Space heating	2.35	7.20	8.52	8.27	4.59	6.05	6.62	7.85	15.10	17.63
Main	4.88	11.28	20.41	22.26	12.82	11.59	16.23	16.64	30.74	29.81
Secondary	2.77	8.03	10.46	8.37	5.08	6.59	7.17	8.65	17.71	18.44
Water heating	21.82	41.36	100.93	0.00	0.00	60.18	45.63	42.28	71.85	0.00
Fuel oil or kerosene end uses (more than one may apply)										
Space heating	3.39	5.91	8.16	10.33	8.33	10.30	11.81	11.20	43.77	76.85
Main	3.50	6.25	8.17	10.60	9.14	11.32	10.19	11.80	44.67	76.85
Secondary	13.56	22.38	37.18	39.74	31.74	34.97	29.96	46.72	100.92	0.00
Water heating	5.25	10.22	13.83	11.92	12.54	12.91	13.51	14.19	67.03	100.85

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Relative standard errors (RSEs) for Table HC1.3 Fuels used and end uses in U.S. homes, by year of construction, 2020

RSEs for number of housing units

	Total U.S. ^a	Year of construction								
		Before 1950	1950 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2009	2010 to 2015	2016 to 2020
All homes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.84	3.44

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.

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