

Table HC1.6 Fuels used and end uses in U.S. homes, by climate region, 2020

Number of housing units (million)

	Climate region ^b					
	Total U.S. ^a	Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
All homes	123.53	42.50	36.79	15.06	22.31	6.87
Fuels used for any use (more than one may apply)						
Electricity	123.53	42.50	36.79	15.06	22.31	6.87
Natural gas	74.65	29.26	21.16	12.05	7.70	4.48
Propane ^c	11.68	5.17	3.75	0.84	1.57	0.35
Wood	10.83	4.62	2.96	1.10	1.37	0.78
Fuel oil or kerosene	5.72	3.76	1.87	Q	Q	Q
Electricity end uses (more than one may apply)						
Space heating	69.25	19.04	23.12	7.24	15.85	4.00
Main	48.89	9.35	17.01	5.18	14.49	2.85
Secondary	31.50	11.78	10.43	3.15	4.36	1.79
Air conditioning	108.92	37.38	34.23	12.89	20.91	3.51
Water heating	58.82	15.52	20.04	4.23	15.83	3.21
Cooking ^d	84.01	27.27	25.83	7.64	18.57	4.69
Natural gas end uses (more than one may apply)						
Space heating	58.44	26.04	16.84	7.68	4.46	3.43
Main	56.25	25.53	15.83	7.49	4.11	3.29
Secondary	7.55	2.98	2.39	0.84	0.68	0.66
Water heating	58.09	23.27	14.95	10.42	5.91	3.54
Cooking ^d	47.26	16.63	13.37	9.37	4.93	2.96
Outdoor grilling	4.75	1.58	1.20	0.97	0.70	0.30
Propane end uses (more than one may apply)						
Space heating	7.71	3.73	2.68	0.42	0.70	0.17
Main	5.05	2.91	1.33	0.36	0.35	0.09
Secondary	3.08	1.07	1.50	0.07	0.37	0.08
Water heating	4.32	1.98	1.06	0.48	0.61	0.17
Cooking ^d	5.82	2.53	1.55	0.53	1.01	0.19
Outdoor grilling ^c	42.05	18.24	10.90	4.89	5.84	2.19
Wood end uses (more than one may apply)						
Space heating	10.79	4.61	2.93	1.10	1.37	0.78
Main	2.22	1.12	0.61	0.19	Q	0.22
Secondary	8.61	3.50	2.33	0.92	1.30	0.55
Water heating	0.15	0.09	Q	N	N	Q

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	Number of housing units (million)					
	Total U.S. ^a	Climate region ^b				Marine
		Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	
All homes	123.53	42.50	36.79	15.06	22.31	6.87
Fuel oil or kerosene end uses (more than one may apply)						
Space heating	5.41	3.61	1.75	Q	N	Q
Main	4.96	3.36	1.56	Q	N	Q
Secondary	0.47	0.27	0.19	N	N	Q
Water heating	2.70	1.79	0.87	Q	Q	Q

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 The Building America program, sponsored by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE), created these climate regions. We combined climate regions for this publication. The Subarctic region is included with data for Very-cold and Cold.

^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 HC1.6 Fuels used and end uses in U.S. homes, by climate region, 2020

RSEs for number of housing units

	Climate region ^b					
	Total U.S. ^a	Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
All homes	0.00	0.54	0.77	1.23	0.69	2.39
Fuels used for any use (more than one may apply)						
Electricity	0.00	0.54	0.77	1.23	0.69	2.39
Natural gas	0.59	0.97	1.41	1.60	2.87	3.82
Propane ^c	2.44	3.71	4.44	11.35	6.89	15.11
Wood	2.30	3.52	3.66	8.41	8.66	8.78
Fuel oil or kerosene	3.06	2.81	7.30	101.21	81.12	34.84
Electricity end uses (more than one may apply)						
Space heating	0.77	1.45	1.19	2.71	1.87	3.88
Main	0.95	2.71	1.35	4.24	1.79	4.14
Secondary	1.35	2.15	2.27	4.74	4.77	7.53
Air conditioning	0.36	0.82	0.92	1.60	0.82	4.32
Water heating	0.84	1.98	1.37	4.71	1.39	3.36
Cooking ^d	0.50	1.10	1.15	2.65	1.15	2.98
Natural gas end uses (more than one may apply)						
Space heating	0.90	1.31	1.71	2.81	4.24	4.24
Main	0.97	1.38	1.79	2.90	4.47	4.54
Secondary	2.92	4.28	4.77	13.09	11.35	8.44
Water heating	0.84	1.34	1.95	2.01	3.21	4.33
Cooking ^d	0.92	1.63	1.83	2.37	3.73	5.25
Outdoor grilling	3.72	5.59	7.28	9.53	10.58	17.00
Propane end uses (more than one may apply)						
Space heating	3.15	4.25	5.16	15.64	10.10	22.47
Main	4.01	4.90	7.75	16.89	15.70	28.45
Secondary	5.30	8.38	6.53	31.86	12.10	31.89
Water heating	4.47	5.82	7.91	13.53	9.98	19.62
Cooking ^d	3.40	4.67	7.94	15.99	9.27	20.52
Outdoor grilling ^c	1.09	1.45	1.97	3.13	3.56	6.32
Wood end uses (more than one may apply)						
Space heating	2.31	3.52	3.71	8.41	8.66	8.78
Main	5.19	8.39	9.69	22.04	32.43	16.57
Secondary	2.73	3.64	4.75	9.13	9.49	11.30
Water heating	21.41	26.03	40.50	0.00	0.00	100.19

Preliminary data release date: May 2022

Relative standard errors (RSEs) for Table HC1.6 Fuels used and end uses in U.S. homes, by climate region, 2020

RSEs for number of housing units

	Climate region ^b					
	Total U.S. ^a	Very-cold/ Cold	Mixed-humid	Mixed-dry/ Hot-dry	Hot-humid	Marine
All homes	0.00	0.54	0.77	1.23	0.69	2.39
Fuel oil or kerosene end uses (more than one may apply)						
Space heating	3.18	2.91	7.89	101.21	0.00	37.60
Main	3.36	2.96	8.35	101.21	0.00	45.26
Secondary	13.66	17.63	21.19	0.00	0.00	70.82
Water heating	5.22	5.16	10.85	101.21	81.12	101.19

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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