

Preliminary data release date: March 2022

Final data release date: March 2023

Table HC5.6 Lighting in U.S. homes, by climate region, 2020

	Number of housing units (million)					
	Total U.S. ^a	Climate region ^b				
		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
Indoor light bulbs used at least 4 hours a day						
0 to 2	47.78	16.33	13.47	6.30	9.08	2.60
3 to 5	31.24	11.21	9.33	3.76	5.43	1.51
6 to 9	23.06	7.65	7.25	2.84	3.90	1.43
10 to 19	16.66	5.74	5.25	1.72	2.95	1.01
20 or more	4.79	1.59	1.50	0.43	0.96	0.32
Incandescent or halogen bulbs used indoors						
Yes, at least one incandescent or halogen bulb	75.22	26.39	22.92	8.38	13.70	3.83
All bulbs are incandescent or halogen	8.50	2.54	3.16	0.62	1.87	0.31
Most bulbs are incandescent or halogen	10.19	3.55	3.20	1.09	1.92	0.43
About half of bulbs are incandescent or halogen	9.10	3.30	2.87	0.90	1.68	0.35
Some bulbs are incandescent or halogen	47.43	16.99	13.69	5.77	8.24	2.75
No incandescent or halogen bulbs	48.31	16.12	13.87	6.67	8.61	3.04
CFL bulbs used indoors						
Yes, at least one CFL bulb	74.38	25.76	21.85	9.87	12.77	4.13
All bulbs are CFL	5.35	1.51	1.54	0.92	1.03	0.34
Most bulbs are CFL	9.55	3.09	2.71	1.56	1.67	0.52
About half of bulbs are CFL	11.82	4.06	3.49	1.55	2.15	0.56
Some bulbs are CFL	47.66	17.11	14.10	5.83	7.92	2.70
No CFL bulbs	49.15	16.74	14.95	5.19	9.54	2.74
LED bulbs used indoors						
Yes, at least one LED bulb	101.85	35.64	29.80	12.39	18.08	5.94
All bulbs are LED	26.08	8.90	7.47	3.26	4.88	1.56
Most bulbs are LED	31.61	11.41	8.86	3.66	5.56	2.12
About half of bulbs are LED	17.69	6.19	5.15	2.17	3.25	0.92
Some bulbs are LED	26.47	9.15	8.31	3.29	4.38	1.34
No LED bulbs	21.68	6.87	6.99	2.66	4.23	0.92
Outdoor light bulbs left on all night						
None	72.40	26.85	21.93	7.51	11.99	4.12
1 to 4	45.30	14.10	13.02	6.61	9.18	2.39
5 to 9	4.25	1.21	1.29	0.70	0.79	0.27
10 or more	1.57	0.35	0.55	0.24	0.35	0.08

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	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
Type of outdoor light bulbs left on all night						
At least 1 outdoor light bulb	51.12	15.66	14.86	7.54	10.32	2.74
LED	33.26	10.43	9.32	5.09	6.61	1.81
CFL	8.39	2.52	2.47	1.25	1.64	0.51
Incandescent or halogen	13.62	3.71	4.43	1.74	3.08	0.66
No outdoor light bulbs	72.40	26.85	21.93	7.51	11.99	4.12

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 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/Cold*.

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.

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Relative standard errors (RSEs) for Table HC5.6 Lighting 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
Indoor light bulbs used at least 4 hours a day						
0 to 2	1.21	2.20	2.03	3.10	2.68	5.95
3 to 5	1.27	2.48	2.75	4.77	4.41	6.70
6 to 9	1.80	3.07	3.41	5.38	4.60	7.65
10 to 19	2.26	3.50	3.93	7.45	5.54	9.27
20 or more	4.44	6.14	6.47	13.81	8.88	16.16
Incandescent or halogen bulbs used indoors						
Yes, at least one incandescent or halogen bulb	0.70	1.29	1.48	2.73	1.80	3.62
All bulbs are incandescent or halogen	3.27	6.68	5.39	14.30	7.34	17.27
Most bulbs are incandescent or halogen	2.70	4.21	4.58	11.00	7.79	13.94
About half of bulbs are incandescent or halogen	2.52	5.26	5.08	9.88	7.47	14.10
Some bulbs are incandescent or halogen	1.03	1.79	1.85	3.76	2.57	4.81
No incandescent or halogen bulbs	1.08	1.90	1.91	2.82	2.76	4.59
CFL bulbs used indoors						
Yes, at least one CFL bulb	0.57	1.23	1.39	2.58	1.67	4.42
All bulbs are CFL	4.82	8.51	7.18	11.53	11.25	19.04
Most bulbs are CFL	2.85	5.52	5.00	8.01	9.81	11.76
About half of bulbs are CFL	2.75	4.58	4.82	7.94	8.03	12.46
Some bulbs are CFL	1.02	1.64	1.87	3.53	2.60	5.43
No CFL bulbs	0.87	1.82	1.98	4.93	2.53	5.48
LED bulbs used indoors						
Yes, at least one LED bulb	0.40	0.77	1.01	1.45	1.02	2.68
All bulbs are LED	1.33	3.01	3.07	5.06	3.67	6.82
Most bulbs are LED	1.48	2.13	2.49	4.47	3.66	5.70
About half of bulbs are LED	1.88	2.76	3.41	6.25	5.03	9.09
Some bulbs are LED	1.53	2.72	2.68	4.55	4.67	7.94
No LED bulbs	1.90	3.78	3.31	6.48	3.70	10.76
Outdoor light bulbs left on all night						
None	0.66	1.05	1.42	2.70	1.88	4.19
1 to 4	0.99	1.68	2.08	3.08	2.49	4.30
5 to 9	4.74	7.87	8.45	12.28	12.47	17.60
10 or more	6.76	13.29	11.79	19.49	16.81	36.18

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Relative standard errors (RSEs) for Table HC5.6 Lighting 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
Type of outdoor light bulbs left on all night						
At least 1 outdoor light bulb	0.93	1.51	2.09	2.52	2.18	4.19
LED	1.36	1.99	2.77	3.56	3.58	5.10
CFL	3.07	5.06	5.16	9.14	7.95	12.36
Incandescent or halogen	2.22	3.78	4.91	8.47	5.03	10.36
No outdoor light bulbs	0.66	1.05	1.42	2.70	1.88	4.19

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.

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