

Preliminary data release date: June 2022

Final data release date: March 2023

### Highlights for air conditioning in U.S. homes by state, 2020

Number (million) and percentage of housing units

	Air-conditioning equipment										
	Total <sup>a</sup>	Uses air-conditioning equipment	Uses central air-conditioning unit <sup>b</sup>	Uses individual air-conditioning unit <sup>c</sup>	Uses dehumidifier	Uses ceiling fans					
<b>All homes</b>	123.53	109.51	89%	83.16	67%	32.42	26%	20.53	17%	89.45	72%
Alabama	1.90	1.78	94%	1.55	81%	0.39	20%	0.17	9%	1.61	84%
Alaska	0.26	0.02	7%	Q	Q	0.02	6%	0.03	12%	0.12	46%
Arizona	2.68	2.52	94%	2.29	86%	0.33	12%	0.08	3%	2.31	86%
Arkansas	1.14	1.07	93%	0.83	72%	0.30	26%	0.08	7%	0.94	82%
California	13.18	9.54	72%	7.08	54%	3.04	23%	0.56	4%	8.30	63%
Colorado	2.26	1.85	82%	1.28	57%	0.46	20%	Q	Q	1.63	72%
Connecticut	1.38	1.24	90%	0.47	34%	0.83	60%	0.45	32%	0.74	54%
Delaware	0.38	0.37	97%	0.32	85%	0.07	19%	0.09	23%	0.29	77%
District of Columbia	0.32	0.30	93%	0.22	68%	0.09	30%	0.04	11%	0.13	41%
Florida	8.06	7.72	96%	7.29	90%	0.87	11%	0.68	8%	6.70	83%
Georgia	3.88	3.70	95%	3.32	86%	0.71	18%	0.49	13%	3.31	85%
Hawaii	0.47	0.27	57%	0.06	12%	0.23	48%	0.03	7%	0.31	65%
Idaho	0.66	0.53	81%	0.42	64%	0.12	19%	Q	Q	0.46	70%
Illinois	4.90	4.70	96%	3.62	74%	1.38	28%	1.26	26%	3.56	73%
Indiana	2.60	2.45	94%	2.10	81%	0.52	20%	0.53	20%	2.03	78%
Iowa	1.28	1.25	97%	1.04	81%	0.28	22%	0.43	34%	1.03	80%
Kansas	1.13	1.05	93%	0.96	85%	0.16	15%	0.20	18%	0.82	73%
Kentucky	1.74	1.65	95%	1.46	84%	0.33	19%	0.20	12%	1.43	82%
Louisiana	1.73	1.60	93%	1.31	76%	0.44	25%	0.09	5%	1.50	87%
Maine	0.56	0.40	70%	0.05	10%	0.36	63%	0.17	31%	0.34	61%
Maryland	2.28	2.08	91%	1.82	80%	0.47	20%	0.58	25%	1.50	66%
Massachusetts	2.71	2.37	87%	0.87	32%	1.57	58%	0.91	33%	1.35	50%
Michigan	3.92	3.39	87%	2.60	66%	1.04	27%	1.34	34%	2.71	69%
Minnesota	2.23	2.10	94%	1.53	68%	0.65	29%	0.96	43%	1.62	73%
Mississippi	1.08	1.01	93%	0.86	79%	0.26	24%	0.06	6%	0.90	83%
Missouri	2.43	2.31	95%	2.01	83%	0.47	19%	0.39	16%	1.98	81%
Montana	0.43	0.28	65%	0.17	40%	0.13	30%	Q	Q	0.26	60%
Nebraska	0.77	0.72	95%	0.66	86%	0.11	14%	0.21	28%	0.60	79%
Nevada	1.14	1.05	92%	0.89	78%	0.16	14%	0.06	5%	0.88	77%
New Hampshire	0.54	0.42	78%	0.11	21%	0.32	59%	0.15	27%	0.31	58%
New Jersey	3.39	3.28	96%	2.08	61%	1.43	42%	0.92	27%	2.14	63%
New Mexico	0.79	0.67	85%	0.42	53%	0.11	14%	Q	Q	0.59	75%
New York	7.52	6.60	88%	2.21	29%	4.59	61%	1.94	26%	3.75	50%
North Carolina	4.01	3.63	91%	3.39	84%	0.46	11%	0.54	13%	3.34	83%
North Dakota	0.32	0.29	93%	0.18	58%	0.12	37%	0.10	33%	0.20	62%

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	Air-conditioning equipment										
	Total <sup>a</sup>	Uses air-conditioning equipment		Uses central air-conditioning unit <sup>b</sup>		Uses individual air-conditioning unit <sup>c</sup>		Uses dehumidifier		Uses ceiling fans	
<b>All homes</b>	123.53	109.51	89%	83.16	67%	32.42	26%	20.53	17%	89.45	72%
Ohio	4.74	4.43	94%	3.49	74%	1.24	26%	1.40	30%	3.54	75%
Oklahoma	1.49	1.43	96%	1.24	83%	0.29	20%	0.07	5%	1.31	87%
Oregon	1.65	1.26	76%	0.81	49%	0.50	30%	0.15	9%	0.94	57%
Pennsylvania	5.13	4.66	91%	2.74	54%	2.22	43%	1.74	34%	3.54	69%
Rhode Island	0.42	0.38	90%	0.13	31%	0.27	65%	0.15	35%	0.27	64%
South Carolina	1.97	1.87	95%	1.70	86%	0.35	18%	0.17	9%	1.67	85%
South Dakota	0.35	0.32	92%	0.26	76%	0.07	19%	0.10	30%	0.24	68%
Tennessee	2.66	2.48	93%	2.28	86%	0.44	16%	0.32	12%	2.15	81%
Texas	10.26	9.74	95%	8.51	83%	1.67	16%	0.45	4%	9.07	88%
Utah	1.04	0.96	92%	0.82	79%	0.14	14%	Q	Q	0.71	68%
Vermont	0.26	0.17	67%	0.02	7%	0.16	60%	0.08	29%	0.15	58%
Virginia	3.24	3.07	95%	2.68	83%	0.55	17%	0.61	19%	2.44	75%
Washington	2.94	1.54	53%	0.87	30%	0.72	25%	0.18	6%	1.29	44%
West Virginia	0.70	0.62	89%	0.44	64%	0.23	33%	0.15	22%	0.57	82%
Wisconsin	2.39	2.21	92%	1.61	67%	0.69	29%	1.07	45%	1.76	74%
Wyoming	0.23	0.16	71%	0.09	40%	0.05	23%	Q	Q	0.14	63%

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. Percentages are calculated on unrounded numbers. See RECS Terminology for the definitions of terms used in these tables. Differences in characteristics between states may not be statistically significant.

<sup>a</sup> Total includes all primary occupied housing units. Vacant housing units, seasonal units, second homes, military houses, and group quarters are excluded.

<sup>b</sup> *Uses central air-conditioning equipment* refers to homes that use central units for main or secondary air-conditioning equipment. *Central air-conditioning equipment* includes homes that use central heat pumps.

<sup>c</sup> *Uses individual air-conditioning unit* refers to homes that use individual units for main or secondary air conditioning equipment. *Individual air-conditioning equipment* include ductless heat pumps (mini-splits), window or wall units, or portable air-conditioning units.

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 Highlights for air conditioning in U.S. homes by state, 2020

#### RSEs for number and percentage of housing units

	Air-conditioning equipment										
	Total <sup>a</sup>	Uses air-conditioning equipment		Uses central air-conditioning unit <sup>b</sup>		Uses individual air-conditioning unit <sup>c</sup>		Uses dehumidifier		Uses ceiling fans	
<b>All homes</b>	0.00	0.35	0.35	0.55	0.55	1.34	1.34	1.57	1.57	0.49	0.49
Alabama	0.00	1.62	1.62	3.00	3.00	13.64	13.64	20.18	20.18	2.91	2.91
Alaska	0.00	21.70	21.70	56.61	56.61	24.47	24.47	15.40	15.40	7.03	7.03
Arizona	0.00	1.39	1.39	2.16	2.16	11.88	11.88	27.29	27.29	2.15	2.15
Arkansas	0.00	2.00	2.00	4.10	4.10	9.31	9.31	22.40	22.40	3.43	3.43
California	0.00	1.94	1.94	2.40	2.40	5.18	5.18	16.62	16.62	2.31	2.31
Colorado	0.00	2.63	2.63	4.76	4.76	12.99	12.99	31.26	31.26	3.37	3.37
Connecticut	0.00	2.17	2.17	6.74	6.74	4.79	4.79	8.33	8.33	5.38	5.38
Delaware	0.00	1.55	1.55	4.05	4.05	18.13	18.13	15.55	15.55	4.56	4.56
District of Columbia	0.00	1.95	1.95	5.02	5.02	9.57	9.57	18.94	18.94	8.61	8.61
Florida	0.00	0.82	0.82	1.45	1.45	13.17	13.17	13.21	13.21	1.81	1.81
Georgia	0.00	1.19	1.19	2.13	2.13	9.35	9.35	13.16	13.16	2.35	2.35
Hawaii	0.00	5.55	5.55	17.66	17.66	6.94	6.94	18.03	18.03	4.59	4.59
Idaho	0.00	2.96	2.96	4.66	4.66	12.32	12.32	36.74	36.74	4.68	4.68
Illinois	0.00	0.95	0.95	2.90	2.90	7.99	7.99	7.93	7.93	2.68	2.68
Indiana	0.00	1.52	1.52	2.82	2.82	12.28	12.28	9.94	9.94	3.09	3.09
Iowa	0.00	1.02	1.02	2.70	2.70	10.31	10.31	7.13	7.13	3.47	3.47
Kansas	0.00	2.14	2.14	3.46	3.46	17.15	17.15	15.01	15.01	3.82	3.82
Kentucky	0.00	1.17	1.17	2.22	2.22	11.31	11.31	12.41	12.41	2.15	2.15
Louisiana	0.00	1.75	1.75	2.94	2.94	9.48	9.48	22.24	22.24	2.66	2.66
Maine	0.00	5.08	5.08	20.73	20.73	5.36	5.36	8.75	8.75	5.26	5.26
Maryland	0.00	1.72	1.72	3.08	3.08	9.73	9.73	9.32	9.32	3.57	3.57
Massachusetts	0.00	1.63	1.63	5.20	5.20	3.96	3.96	5.31	5.31	3.70	3.70
Michigan	0.00	2.14	2.14	4.30	4.30	10.27	10.27	6.30	6.30	3.59	3.59
Minnesota	0.00	1.49	1.49	3.50	3.50	8.57	8.57	6.31	6.31	3.77	3.77
Mississippi	0.00	2.45	2.45	4.19	4.19	13.50	13.50	31.77	31.77	3.57	3.57
Missouri	0.00	1.69	1.69	2.93	2.93	10.78	10.78	13.96	13.96	2.65	2.65
Montana	0.00	5.19	5.19	9.11	9.11	13.65	13.65	38.81	38.81	5.65	5.65
Nebraska	0.00	1.94	1.94	3.19	3.19	21.47	21.47	12.82	12.82	4.73	4.73
Nevada	0.00	2.27	2.27	3.43	3.43	16.69	16.69	31.27	31.27	3.68	3.68
New Hampshire	0.00	4.99	4.99	13.89	13.89	7.66	7.66	10.81	10.81	6.81	6.81
New Jersey	0.00	0.93	0.93	4.52	4.52	5.53	5.53	8.13	8.13	3.76	3.76
New Mexico	0.00	3.12	3.12	7.60	7.60	20.30	20.30	58.35	58.35	5.14	5.14
New York	0.00	1.21	1.21	5.09	5.09	2.51	2.51	5.83	5.83	3.63	3.63
North Carolina	0.00	1.41	1.41	1.95	1.95	14.08	14.08	11.00	11.00	1.93	1.93
North Dakota	0.00	1.62	1.62	5.59	5.59	7.62	7.62	8.12	8.12	4.84	4.84

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	Total <sup>a</sup>	Uses air-conditioning equipment		Uses central air-conditioning unit <sup>b</sup>		Uses individual air-conditioning unit <sup>c</sup>		Uses dehumidifier		Uses ceiling fans	
All homes	0.00	0.35	0.35	0.55	0.55	1.34	1.34	1.57	1.57	0.49	0.49
Ohio	0.00	1.55	1.55	3.41	3.41	11.69	11.69	7.83	7.83	3.28	3.28
Oklahoma	0.00	1.48	1.48	3.01	3.01	13.80	13.80	29.85	29.85	2.73	2.73
Oregon	0.00	3.67	3.67	5.48	5.48	9.05	9.05	16.85	16.85	5.05	5.05
Pennsylvania	0.00	1.46	1.46	3.88	3.88	5.15	5.15	5.57	5.57	2.69	2.69
Rhode Island	0.00	2.73	2.73	10.43	10.43	5.60	5.60	9.49	9.49	6.03	6.03
South Carolina	0.00	1.29	1.29	2.13	2.13	12.02	12.02	16.33	16.33	2.33	2.33
South Dakota	0.00	2.30	2.30	4.43	4.43	15.69	15.69	11.39	11.39	6.78	6.78
Tennessee	0.00	1.37	1.37	2.02	2.02	10.47	10.47	11.07	11.07	3.14	3.14
Texas	0.00	0.82	0.82	1.40	1.40	7.80	7.80	14.66	14.66	1.19	1.19
Utah	0.00	2.38	2.38	4.36	4.36	22.72	22.72	43.89	43.89	5.16	5.16
Vermont	0.00	4.93	4.93	24.84	24.84	5.18	5.18	8.29	8.29	4.74	4.74
Virginia	0.00	1.24	1.24	2.18	2.18	9.69	9.69	10.06	10.06	3.00	3.00
Washington	0.00	5.30	5.30	8.39	8.39	8.62	8.62	25.99	25.99	5.72	5.72
West Virginia	0.00	2.55	2.55	4.49	4.49	8.17	8.17	14.14	14.14	3.40	3.40
Wisconsin	0.00	1.84	1.84	3.64	3.64	8.13	8.13	5.72	5.72	2.91	2.91
Wyoming	0.00	5.05	5.05	9.62	9.62	13.49	13.49	49.67	49.67	5.73	5.73

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. Differences in characteristics between states may not be statistically significant.

<sup>a</sup> Total includes all primary occupied housing units. Vacant housing units, seasonal units, second homes, military houses, and group quarters are excluded.

<sup>b</sup> Uses central air-conditioning equipment refers to homes that use central units for main or secondary air-conditioning equipment. Central air-conditioning equipment includes homes that use central heat pumps.

<sup>c</sup> Uses individual air-conditioning unit refers to homes that use individual units for main or secondary air conditioning equipment. Individual air-conditioning equipment include ductless heat pumps (mini-splits), window or wall units, or portable air-conditioning units.