



# 2022 Water Fluoridation Statistics

 Public Health  
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## WHAT TO KNOW

Biennially, CDC summarizes Water Fluoridation Reporting System data into National Water Fluoridation Statistics. The statistics include the estimated proportion of the U.S. population receiving fluoridated water, and the estimated proportion of people on community water systems that receive fluoridated water, both nationally and in each state.

## 2022 National Water Fluoridation Statistics

These statistics were prepared using water system data reported by states to the CDC [Water Fluoridation Reporting System](#) as of December 31, 2022, by the [U.S. Census Bureau state population estimates as of July 1, 2020](#), and by population estimates served by public water supply as of 2015, [as published](#) by the U.S. Geological Survey June 19, 2018.

Values were aggregated or calculated at county and state levels. National-level values are a summation (or appropriate calculation based on a summation) of state-level values.

Total U.S. population, persons <sup>a</sup>	333,261,756
U.S. population on community water systems (CWS), persons <sup>b,c</sup>	289,330,482
U.S. population on fluoridated drinking water systems, persons <sup>b,c</sup>	209,135,866
Percentage of U.S. population receiving fluoridated water <sup>c,d</sup>	62.8%
Percentage of U.S. population on CWS receiving fluoridated water <sup>c,e</sup>	72.3%
Total number of CWS in United States <sup>b</sup>	51,842
Number of CWS providing fluoridated water <sup>b</sup>	17,394
Number of CWS adjusting fluoride <sup>b</sup>	5,561
Number of CWS consecutive to adjusting systems or to systems with naturally occurring fluoride at or above optimal levels <sup>b</sup>	5,749
Number of CWS with naturally occurring fluoride at or above optimal levels <sup>b</sup>	5,542
Population served by CWS with naturally occurring fluoride at or above optimal levels <sup>b,c</sup>	11,850,115

## 2022 State Fluoridation Percentage Calculations and States Ranked by Fluoridation Percentage

State	Persons Served by CWS Receiving Fluoridated Water <sup>c</sup>	Persons Served by CWS <sup>c</sup>	% Population Served by CWS Receiving Fluoridated Water <sup>d</sup>	Rank <sup>f</sup>
U.S.	209,135,866	289,330,482	72.3	
Alabama	3,454,238	4,511,000	76.6	24
Alaska	230,703	546,029	42.3	45
Arizona	4,095,922	7,124,056	57.5	38

State	Persons Served by CWS Receiving Fluoridated Water <sup>c</sup>	Persons Served by CWS <sup>c</sup>	% Population Served by CWS Receiving Fluoridated Water <sup>d</sup>	Rank <sup>f</sup>
Arkansas	2,515,336	2,897,922	86.8	19
California	21,707,473	37,598,067	57.7	37
Colorado	4,173,964	5,533,326	75.4	27
Connecticut	2,490,818	2,756,260	90.4	15
Delaware	574,020	822,842	69.8	32
District of Columbia	671,803	671,803	100.0	1
Florida	15,261,629	19,545,001	78.1	23
Georgia	8,835,367	9,294,995	95.1	7
Hawaii	118,083	1,383,562	8.5	51
Idaho	457,121	1,474,799	31.0	48
Illinois	11,251,149	11,455,800	98.2	4
Indiana	4,668,351	5,101,636	91.5	12
Iowa	2,393,799	2,694,378	88.8	16
Kansas	1,822,457	2,786,560	65.4	33
Kentucky	4,051,820	4,062,962	99.7	2
Louisiana	1,555,209	4,107,130	37.9	46
Maine	554,377	697,013	79.5	22
Maryland	4,384,852	4,703,193	93.2	9
Massachusetts	3,697,733	6,349,023	58.2	36
Michigan	6,729,495	7,407,603	90.8	13
Minnesota	4,440,949	4,491,474	98.9	3
Mississippi	1,188,471	2,512,886	47.3	42
Missouri	4,088,368	5,343,885	76.5	26
Montana	259,366	791,719	32.8	47
Nebraska	1,328,229	1,789,997	74.2	28
Nevada	2,200,897	2,966,103	74.2	29
New Hampshire	397,977	873,905	45.5	43
New Jersey	1,334,775	8,262,926	16.2	50
New Mexico	1,391,829	1,817,223	76.6	25
New York	12,321,385	17,192,696	71.7	30
North Carolina	7,155,990	8,134,002	88.0	18
North Dakota	705,946	731,540	96.5	5
Ohio	9,157,130	9,872,178	92.8	10
Oklahoma	2,318,319	3,653,044	63.5	35
Oregon	945,389	3,575,500	26.4	49
Pennsylvania	5,231,249	9,455,294	55.3	40
Rhode Island	823,747	976,881	84.3	21
South Carolina	3,685,922	4,006,552	92.0	11
South Dakota	731,457	776,865	94.2	8
Tennessee	5,666,939	6,416,232	88.3	17
Texas	20,215,247	28,591,918	70.7	31
Utah	1,442,776	3,311,537	43.6	44

State	Persons Served by CWS Receiving Fluoridated Water <sup>c</sup>	Persons Served by CWS <sup>c</sup>	% Population Served by CWS Receiving Fluoridated Water <sup>d</sup>	Rank <sup>f</sup>
Vermont	224,047	395,082	56.7	39
Virginia	6,759,993	7,069,628	95.6	6
Washington	4,299,642	6,674,055	64.4	34
West Virginia	1,265,766	1,398,211	90.5	14
Wisconsin	3,603,383	4,260,914	84.6	20
Wyoming	254,959	463,275	55.0	41

## Footnotes

<sup>a</sup> Census Population Count 2020. Annual Estimates of the Resident Population for the United States, Regions, States, District of Columbia, and Puerto Rico: April 1, 2020, to July 1, 2021 (NST-EST2021-POP); released December 2022. Source: U.S. Census Bureau, Population Division. Accessed at <https://www2.census.gov/programs-surveys/popest/tables/2020-2022/state/totals/>

<sup>b</sup> Reported in CDC Water Fluoridation Reporting System (WFRS). For this report, a water system is considered a community water system (CWS) if so designated by the state drinking water administrator, in accordance with the regulatory requirements of the U.S. Environmental Protection Agency. A CWS supplies water to the same population year-round and serves at least 25 people at their primary residences or at least 15 residences that are primary residences (for example, municipalities, mobile home park, sub-divisions).

<https://www.epa.gov/dwreginfo/information-about-public-water-systems>

<sup>c</sup> Estimates of state populations served by CWSs and reported in WFRS are controlled by using a product of the U.S. Census state population estimate and the U.S. Geological Survey's estimate of the percentages of state populations that are on public water systems. Estimates for populations served by each CWS are controlled proportionately within each state. For details on the population-controlling method used, see [Calculating Fluoridation Statistics](#). U.S. Geological Survey: Dieter, C.A., Maupin M.A., Caldwell R.R., Harris, M.A., Ivahnenko, T.I., Lovelace, J.K., Barber, N.L., and Linsey, K.S., 2018, Estimated use of water in the United States in 2015: U.S. Geological Survey Circular 1441, 65 p., <https://doi.org/10.3133/circ1441> [Supersedes USGS Open-File Report 2017-1131.]

<sup>d</sup> Population served by CWSs receiving fluoridated water divided by total population.

<sup>e</sup> Population served by CWSs receiving fluoridated water divided by population served by CWSs.

<sup>f</sup> Based on highest to lowest percentage of population served by CWS receiving fluoridated water. Includes all states and Washington, DC (51 total rankings).

## SOURCES

### CONTENT SOURCE:

National Center for Chronic Disease Prevention and Health Promotion (NCCDPHP); CDC Division of Oral Health