

Central Iowa COVID19 Update

Wednesday, February 9, 2022



Statistical Consulting

Dr. Meg Schaeffer





Quick Stats¹

	Polk County	Next Target ^{**}	Iowa
Percent of population with at least 1 dose*	73.2%		66.9%
Percent of population with fully vaccinated*	66.2%	85%	60.6%
7d Lab Test Positivity	16.5%	<10%	13.3%
Total cases per 100,000 the last 7d	475	<100	453
CDC County Transmission Level*	High	Substantial	
Average daily cases the last 7d	333		2041

*[VaccineInformation | Iowa COVID-19 Information](#)

All data are sourced from <https://coronavirus.iowa.gov/pages/case-counts> with previous days refreshed weekly. The population of Polk County used is 490,161. Population of Iowa used is 3.155 million. Averages and percent positivity are subject to change with retrospectively refreshed data.

**[COVID-19 County Check Tool | CDC](#)

Critical Points, Media, and Research

Average daily cases are similar to levels at the peak of the Delta surge last fall. Cases are rapidly decreasing; hospitalizations more slowly. In Polk County, more than 20 people die from COVID weekly.

News & Research

- Effectiveness of Face Mask or Respirator Use in Indoor Public Settings for Prevention of SARS-CoV-2 Infection — California, February–December 2021. Link [here](#).
- Clinical Characteristics and Outcomes Among Adults Hospitalized with Laboratory-Confirmed SARS-CoV-2 Infection During Periods of B.1.617.2 (Delta) and B.1.1.529 (Omicron) Variant Predominance — One Hospital, California, July 15–September 23, 2021, and December 21, 2021–January 27, 2022. Link [here](#).
- COVID-19 Vaccination Coverage and Vaccine Confidence by Sexual Orientation and Gender Identity — United States, August 29–October 30, 2021. Link [here](#).
- SARS-CoV-2 Infection and Hospitalization Among Adults Aged ≥18 Years, by Vaccination Status, Before and During SARS-CoV-2 B.1.1.529 (Omicron) Variant Predominance — Los Angeles County, California, November 7, 2021–January 8, 2022. Link [here](#).
- [Physical and mental health 3 months after SARS-CoV-2 infection \(long COVID\) among adolescents in England: a national matched cohort study - The Lancet Child & Adolescent Health](#)
- Participants with SARS-CoV-2-positive tests had more long-lasting symptoms and sick leave, whereas participants in the control group had more short-lasting symptoms and worse quality of life. Knowledge of long COVID in adolescents is important to guide clinical recognition and management of this condition. [Long COVID symptoms in SARS-CoV-2-positive adolescents and matched controls: a national, cross-sectional study - The Lancet Child & Adolescent Health](#)
- [Early Release - COVID-19 Vaccination Coverage, Behaviors, and Intentions among Adults with Previous Diagnosis, United States - Volume 28, Number 3—March 2022 - Emerging Infectious Diseases journal - CDC](#)
- [Iowa Gov. Kim Reynolds will end COVID disaster policies, websites](#)



Vaccine Progress

Polk Co Vaccination Rates CDC Covid Data Tracker Data (*)	At Least One Dose	Difference prev week	Fully Vaccinated	Difference prev week
Total	358,720	1,154	324,508	1,382
% of Total Population	73.2%	0.3%	66.2%	0.3%
Population ≥ 5 Years of Age	358,683	1,149	324,508	1,382
% of Population ≥ 5 Years of Age	78.7%	0.3%	71.2%	0.3%
Population ≥ 12 Years of Age	342,346	860	310,898	912
% of Population ≥ 12 Years of Age	83.7%	0.2%	76.1%	0.3%
Population ≥ 18 Years of Age	314,667	716	285,948	758
% of Population ≥ 18 Years of Age	85.2%	0.2%	77.5%	0.2%
Population ≥ 65 Years of Age	68,329	52	63,367	56
% of Population ≥ 65 Years of Age	95.0%	0.0%	95.0%	0.0%

(*) CDC COVID Data Tracker Data: CDC data includes vaccine administration data from all sources, including IRIS*, other state immunization registries, and federal entities (Bureau of Prisons, Veterans Health Administration, Department of Defense, and Federal Long-Term Care program). These doses may not have been reported to IRIS.

Link to Zip Code-Level Vaccination

Rates - <https://arcg.is/1nTry4>

Polk Co People Fully Vaccinated with a Booster (*)	Data	Difference prev week
Total	164,953	3,022
% of Fully Vaccinated Population with a Booster Dose	50.8%	0.7%
Fully Vaccinated Population ≥ 18 Years of Age with a Booster Dose	159,755	2,548
% of Fully Vaccinated Population ≥ 18 Years of Age with a Booster Dose	55.9%	0.8%
Fully Vaccinated Population ≥ 50 Years of Age with a Booster Dose	95,427	1,041
% of Fully Vaccinated Population ≥ 50 Years of Age with a Booster Dose	69.9%	0.6%
Fully Vaccinated Population ≥ 65 Years of Age with a Booster Dose	50,080	343
% of Fully Vaccinated Population ≥ 65 Years of Age with a Booster Dose	79.0%	0.4%

(*)The count of people who received a booster dose includes anyone who is fully vaccinated and has received another dose of COVID-19 vaccine since August 13, 2021. This includes people who received booster doses and people who received additional doses.

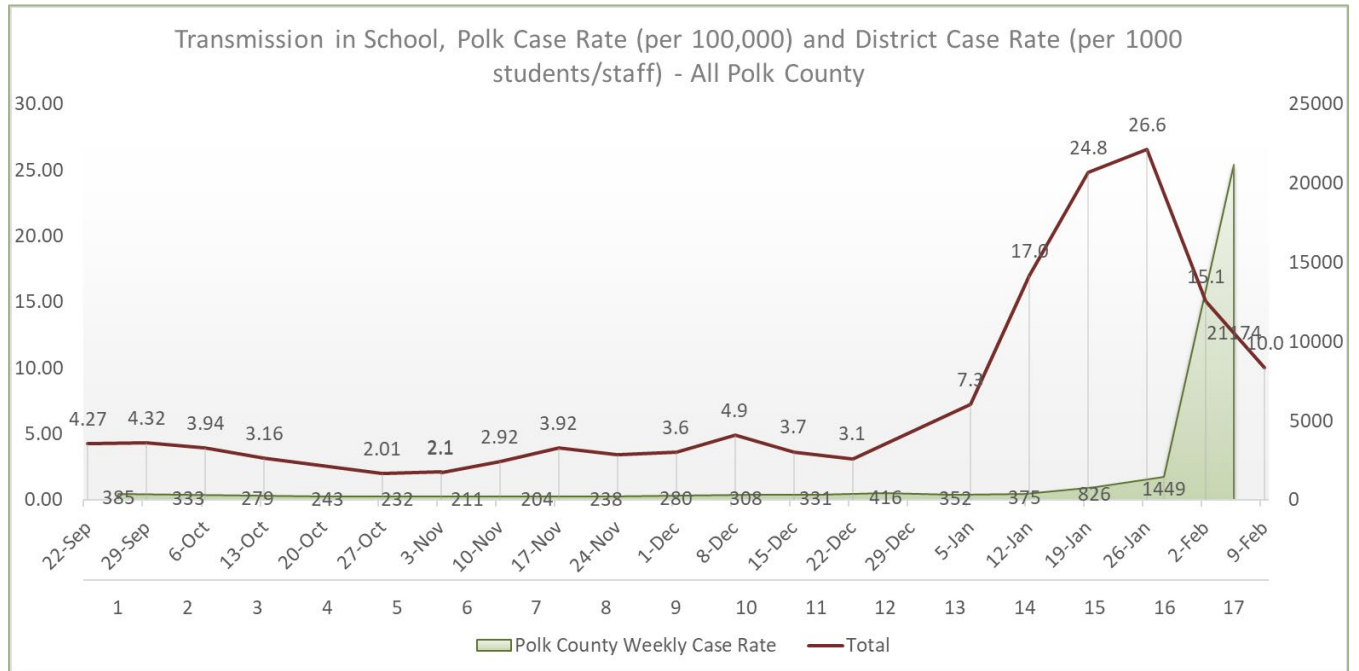
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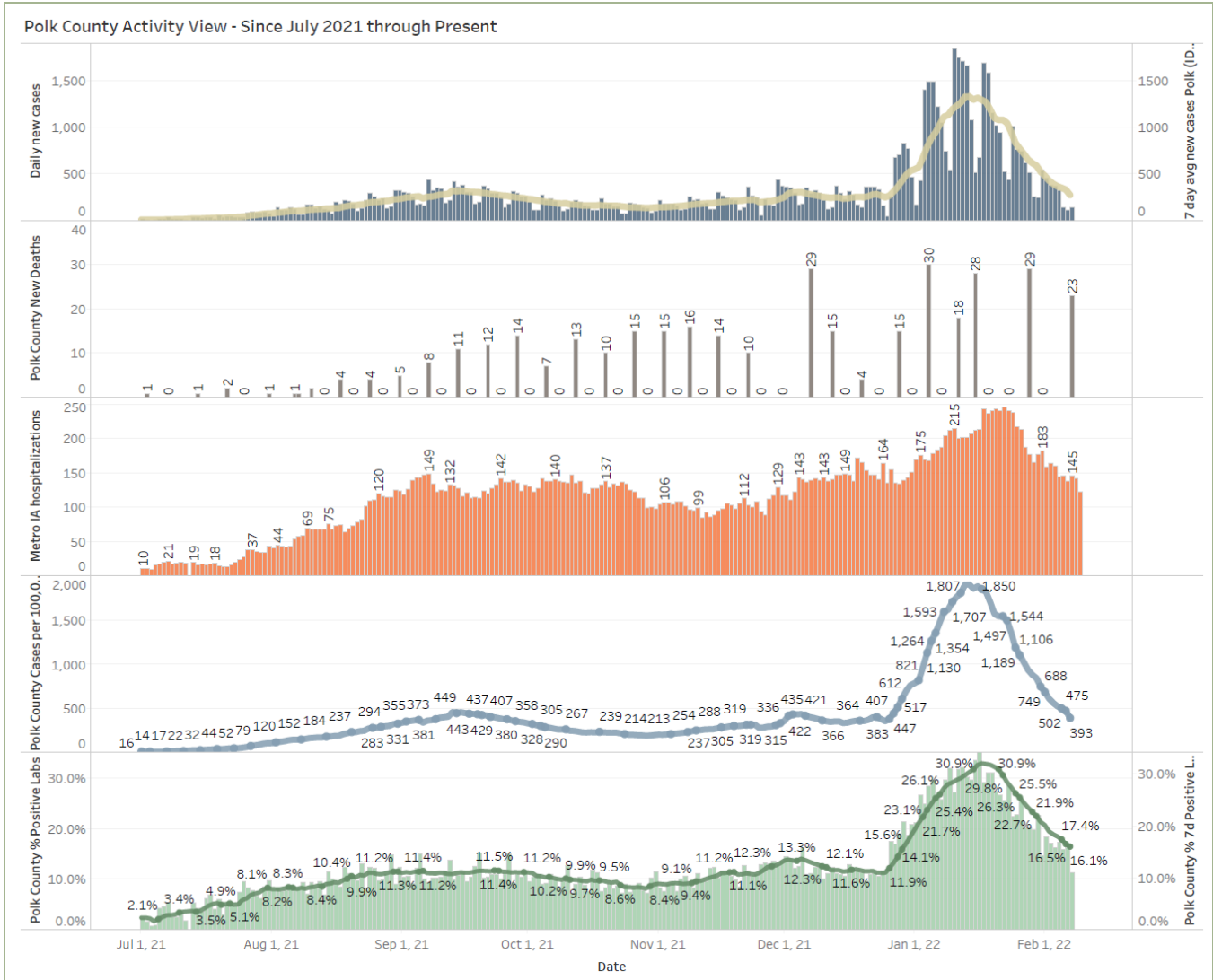
School Data

New Student/Staff Case Rates per 1000	Week Ending	22-Sep	29-Sep	6-Oct	13-Oct	3-Nov	27-Oct	3-Nov	10-Nov	17-Nov	24-Nov	1-Dec	8-Dec	15-Dec	22-Dec	5-Jan	12-Jan	19-Jan	26-Jan	2-Feb	9-Feb
	DMPS*	6.21	6.52	4.42	3.27	2.30	2.1	0.9	2.48	2.12	2.24	3.58	5.06	3.79	3.03	7.91	14.79	11.45	19.45	8.45	10.06
Ankeny	5.42	5.42	3.92	4.83	3.75	2.8	2.1	2.75	4.00	3.33	3.25	5.83	5.00	4.67	NA	18.42	32.08	40.58	24.83	18.33	
Waukee	2.78	2.78	2.35	2.09	2.43	1.7	4.2	4.35	6.70	8.09	4.43	4.52	3.57	3.04	8.26	15.74	13.22	13.04	6.96	3.22	
WDM	4.33	4.33	2.67	2.67	1.22	2.0	2.8	5.89	5.67	5.00	5.00	7.67	5.11	3.78	NA	19.67	31.67	33.44	26.11	11.56	
Johnston	4.71	4.71	3.57	2.29	2.29	2.4	2.1	2.71	3.43	0.86	2.00	3.43	2.86	3.43	NA	8.29	24.57	36.29	8.71	10.29	
SE Polk	4.71	4.71	5.43	4.00	1.71	1.9	1.1	1.29	2.29	3.14	4.14	5.29	2.86	1.71	1.86	13.29	14.71	11.57	10.29	4.86	
Urbandale	1.75	1.75	5.25	3.00	1.25	1.3	1.3	1.00	3.25	4.25	3.00	3.75	1.75	2.75	11.00	29.00	46.00	31.50	20.00	12.00	
Total	4.27	4.32	3.94	3.16	2.14	2.0	2.1	2.92	3.92	3.5	3.6	4.9	3.7	3.1	7.3	17.0	24.8	26.6	15.1	10.0	

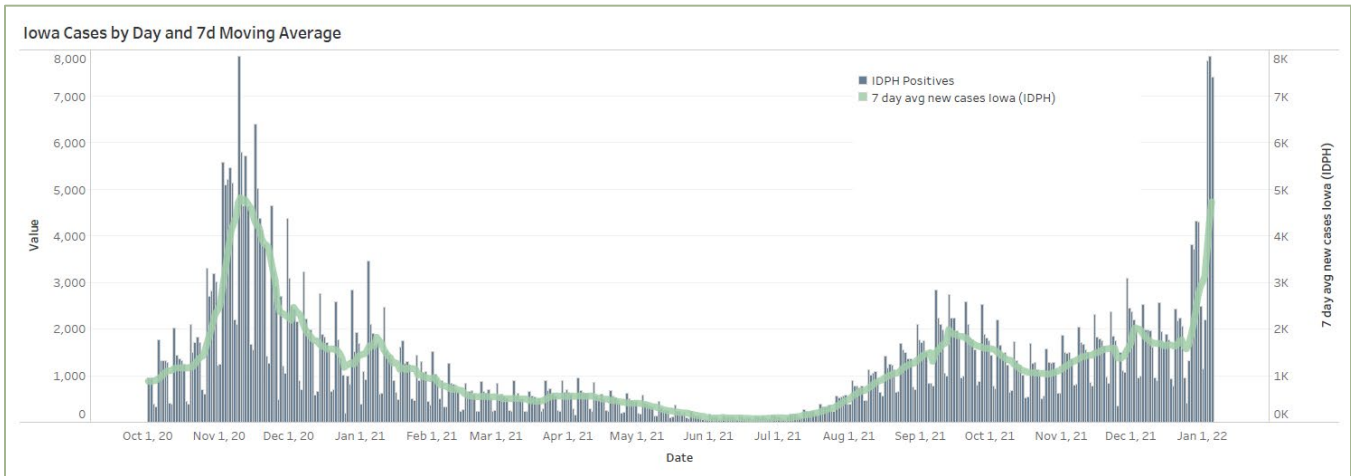
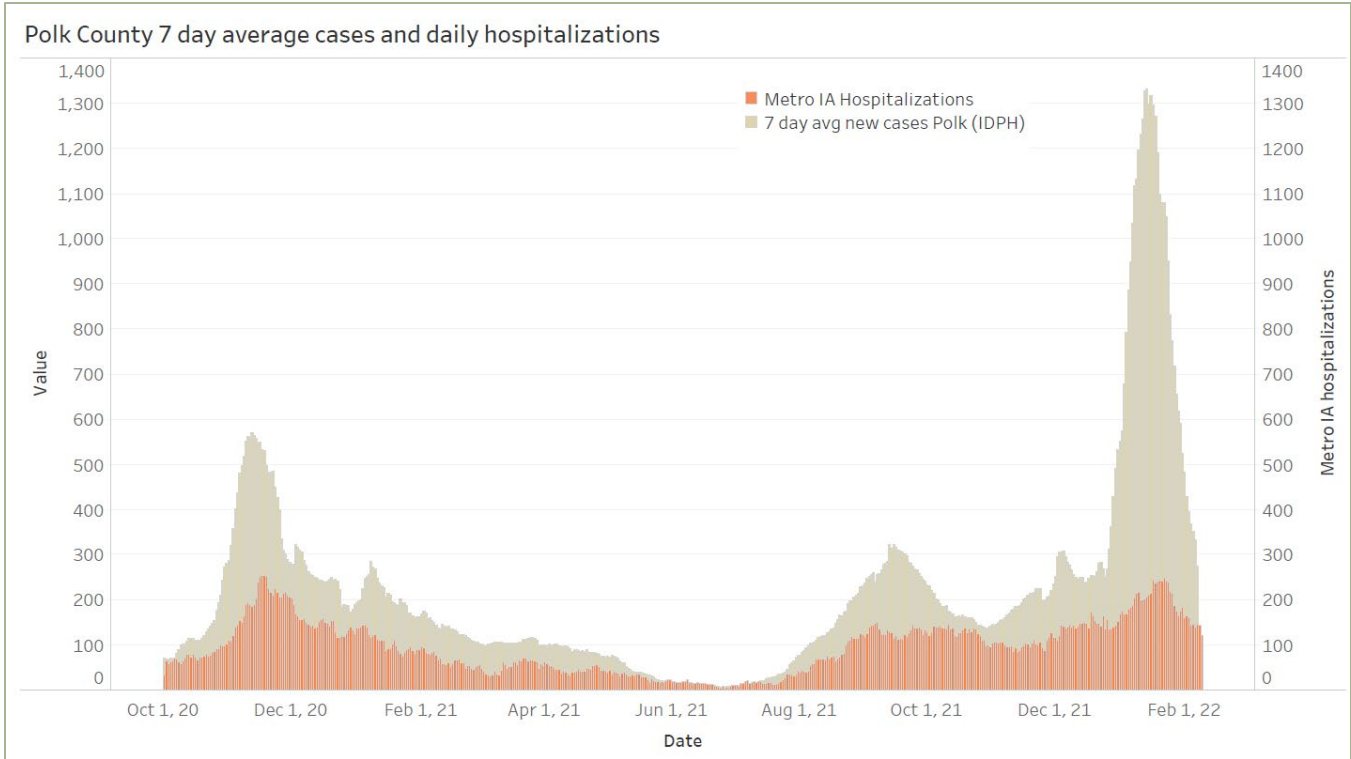
New Student/Staff Cases	Week Ending	22-Sep	29-Sep	6-Oct	13-Oct	20-Oct	27-Oct	3-Nov	10-Nov	17-Nov	24-Nov	1-Dec	8-Dec	15-Dec	22-Dec	5-Jan	12-Jan	19-Jan	26-Jan	2-Feb	9-Feb
	DMPS*	205	215	146	108	76	68	31	82	70	74	118	167	125	100	261	488	378	642	279	332
Ankeny	65	65	47	58	45	34	25	33	48	40	39	70	60	56	NA	221	385	487	298	220	
Waukee	43	43	35	32	36	20	49	64	90	105	63	65	48	36	120	210	186	150	80	37	
WDM	39	39	24	24	11	18	25	53	51	45	45	69	46	34	NA	177	285	301	235	104	
Johnston	33	33	25	16	16	17	15	19	24	6	14	24	20	24	NA	72	208	254	61	72	
SE Polk	33	33	38	28	12	13	8	9	16	22	29	37	20	12	13	93	103	81	72	34	
Urbandale	8	8	21	12	5	5	5	4	13	17	12	15	7	11	44	116	184	126	80	48	
Total	426	436	336	278	201	175	158	264	312	309	320	447	326	273	438	1377	1729	2041	1105	847	
Polk Weekly Cases	1885	1633	1368	1192	1137	1032	999	1164	1370	1511	1621	2039	1726	1836	4050	7098	103753	8333	6058		
Polk County Weekly Case Rate	385	333	279	243	232	211	204	238	280	308	331	416	352	375	826	1449	21174	1701	1236		



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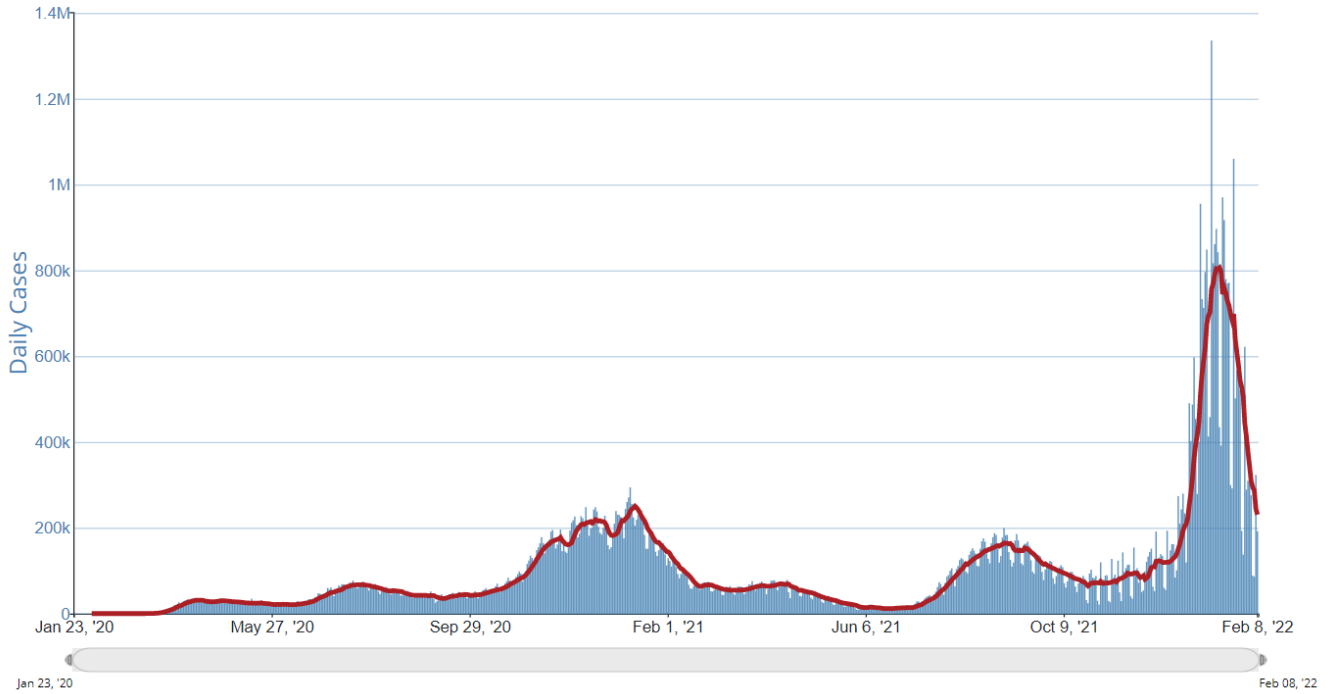
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Daily Trends in Number of COVID-19 Cases in The United States Reported to CDC



	CASES DAILY AVG.	PER 100,000	14-DAY CHANGE	HOSPITALIZED DAILY AVG.	PER 100,000	14-DAY CHANGE	DEATHS DAILY AVG.	PER 100,000	FULLY VACCINATED
United States	227,903	69	-63%	108,989	33	-29%	2,576.1	0.78	64%
Northern Mariana Islands ›	210	390	+294%	—	—	—	0	—	79%
Guam ›	641	380	+1%	—	—	—	1.1	0.67	79%
Alaska ›	1,298	177	-48%	151	21	-10%	2.6	0.35	60%
Mississippi ›	5,034	169	-12%	1,279	43	-23%	40.7	1.37	50%
Tennessee ›	9,268	136	-46%	3,212	47	-10%	51.3	0.75	53%
West Virginia ›	2,354	131	-50%	1,183	66	+2%	17.9	1.00	56%
Montana ›	1,371	128	-35%	347	32	+5%	3.3	0.31	55%
Kentucky ›	5,053	113	-59%	2,386	53	-10%	32.7	0.73	56%
North Dakota ›	854	112	-59%	285	37	-9%	4.0	0.52	54%
Idaho ›	1,875	105	-33%	542	30	+1%	12.0	0.67	53%