

Central Iowa COVID19 Update

Wednesday, January 19, 2022



Statistical Consulting

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Quick Stats¹

	Polk County	Iowa
Percent of population with 1 dose	72%	65.1%
Percent of population with 2 doses	65.8%	59.7%
7d Lab Test Positivity	31.2%	26.2%
Total cases per 100,000 the last 7d	1793	1412
CDC County Transmission Level*	High	
Average daily cases the last 7d	1255	6364

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

All data are sourced from <https://coronavirus.iowa.gov/pages/case-counts> with previous days refreshed daily. When recent data are unavailable, data from <https://github.com/nytimes/covid-19-data> may be used. 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.

Critical Points, Media, and Research

Case counts reached the highest level of the pandemic the last week. Testing capacity limits may result in undercounting cases; however, Polk County and Iowa appear to have peaked. Cases should decline rapidly the next several weeks. Even with a substantial decrease, cases will remain high for 3-4 more weeks. Hospitalizations are expected to continue to rise for the next few days until cases drop further. Deaths in Polk County average between 3-4 per week.

News & Research

- [Duration of Protection against Mild and Severe Disease by Covid-19 Vaccines | NEJM](#)
This study observed limited waning in vaccine effectiveness against Covid-19–related hospitalization and death at 20 weeks or more after vaccination with two doses of the ChAdOx1-S or BNT162b2 vaccine. Waning was greater in older adults and in those in a clinical risk group.
- [Effectiveness of Covid-19 Vaccines over a 9-Month Period in North Carolina | NEJM](#)
All three Covid-19 vaccines had durable effectiveness in reducing the risks of hospitalization and death. Waning protection against infection over time was due to both declining immunity and the emergence of the delta variant.
- [Effectiveness of BNT162b2 Vaccine against Critical Covid-19 in Adolescents | NEJM](#)
Among hospitalized adolescent patients, two doses of the BNT162b2 vaccine were highly effective against Covid-19–related hospitalization and ICU admission or the receipt of life support.
- Effectiveness of BNT162b2 (Pfizer-BioNTech) mRNA Vaccination Against Multisystem Inflammatory Syndrome in Children Among Persons Aged 12–18 Years — United States, July–December 2021. Link [here](#).
- [COVID-19 isn't going away entirely, but instead will become endemic, Fauci says. : Coronavirus Updates : NPR](#)
- [Website to order free Covid-19 tests is up and running](#)
- ['We are frustrated in a lot of ways': Iowa hospitals and the latest COVID-19 surge \(kcci.com\)](#)
- [LIST | PCR and rapid COVID-19 test sites near me | weareiowa.com](#)



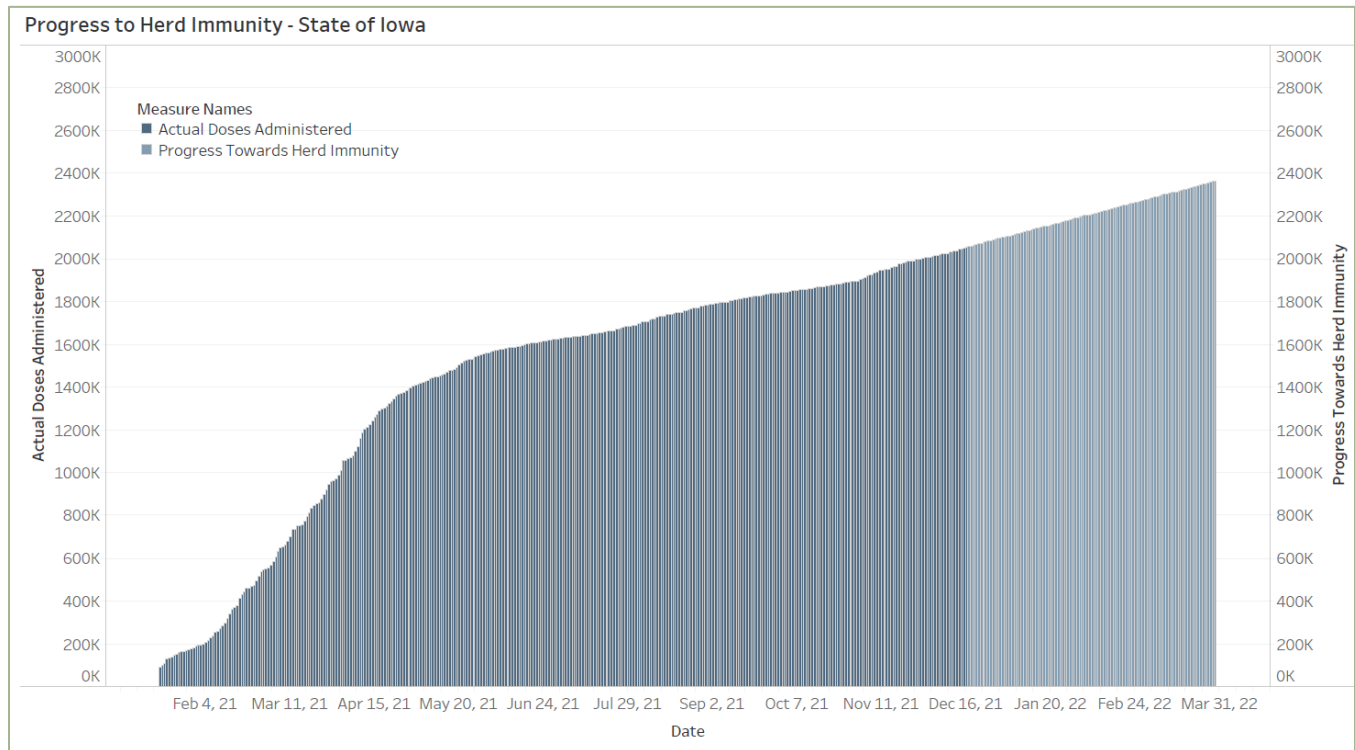
Vaccine Progress

Polk Co Vaccination Rates CDC Covid Data Tracker Data (*)	At Least One Dose	Difference prev week	Fully Vaccinated	Difference prev week
Total	353,132	1,398	319,060	1,189
% of Total Population	72.0%	0.2%	65.1%	0.2%
Population ≥ 5 Years of Age	353,110	1,396	319,060	1,189
% of Population ≥ 5 Years of Age	77.5%	0.3%	70.0%	0.3%
Population ≥ 12 Years of Age	338,047	1,017	307,318	654
% of Population ≥ 12 Years of Age	82.7%	0.3%	75.2%	0.2%
Population ≥ 18 Years of Age	310,919	895	282,915	545
% of Population ≥ 18 Years of Age	84.2%	0.2%	76.6%	0.1%
Population ≥ 65 Years of Age	68,012	60	63,194	38
% 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.

Data as of: 1/11/2022

Link to Zip Code-Level Vaccination Rates - <https://arcg.is/1nTry4>



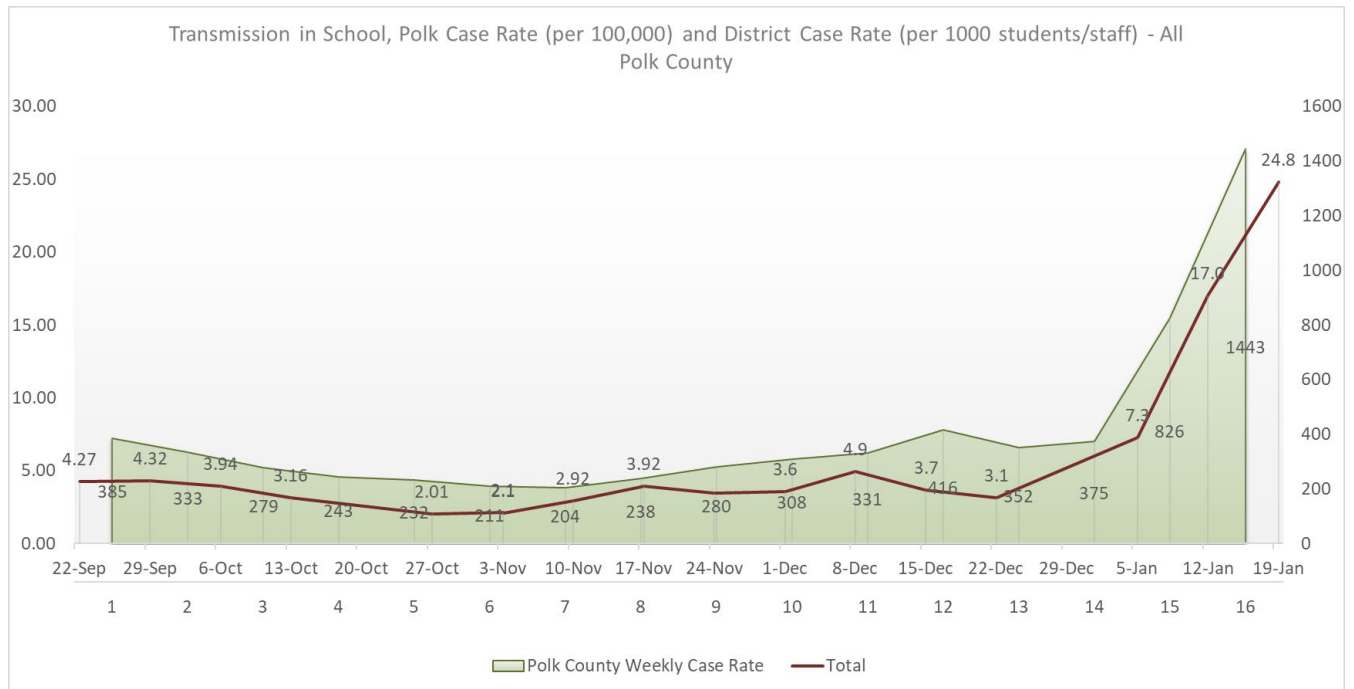
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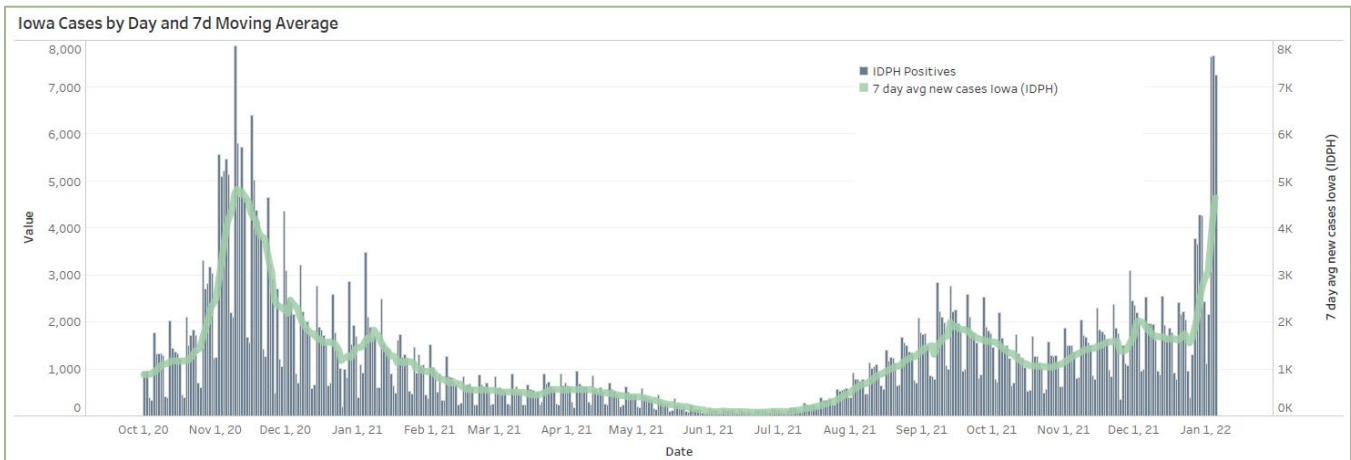
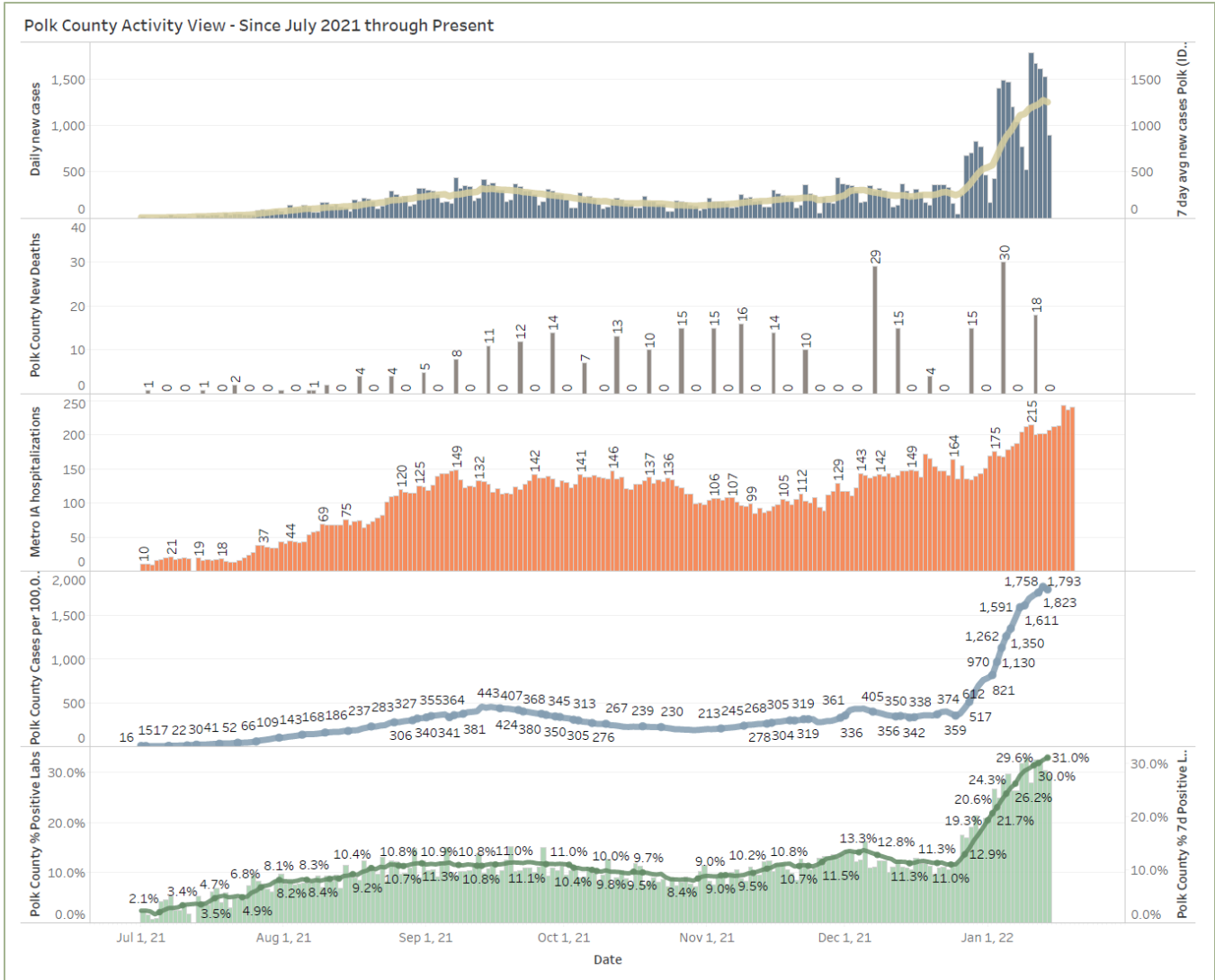
School Data

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
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
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
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
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
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
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
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
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

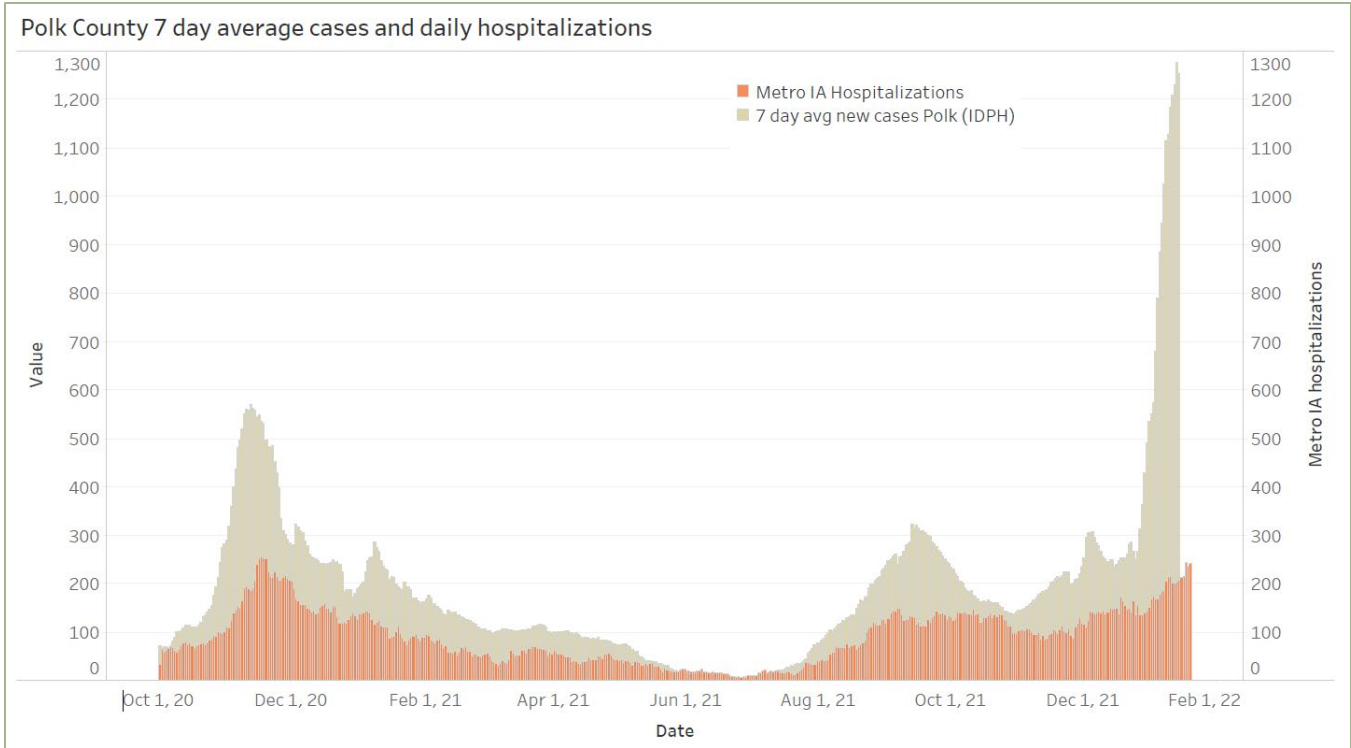
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DMPS*	205	215	146	108	76	68	31	82	70	74	118	167	125	100	261	488	378
Ankeny	65	65	47	58	45	34	25	33	48	40	39	70	60	56	NA	221	385
Waukee	43	43	35	32	36	20	49	64	90	105	63	65	48	36	120	210	186
WDM	39	39	24	24	11	18	25	53	51	45	45	69	46	34	NA	177	285
Johnston	33	33	25	16	16	17	15	19	24	6	14	24	20	24	NA	72	208
SE Polk	33	33	38	28	12	13	8	9	16	22	29	37	20	12	13	93	103
Urbandale	8	8	21	12	5	5	5	4	13	17	12	15	7	11	44	116	184
Total	426	436	336	278	201	175	158	264	312	309	320	447	326	273	438	1377	1729
Polk Weekly Cases	1885	1633	1368	1192	1137	1032	999	1164	1370	1511	1621	2039	1726	1836	4050	7071	
Polk County Weekly Case Rate	385	333	279	243	232	211	204	238	280	308	331	416	352	375	826	1443	



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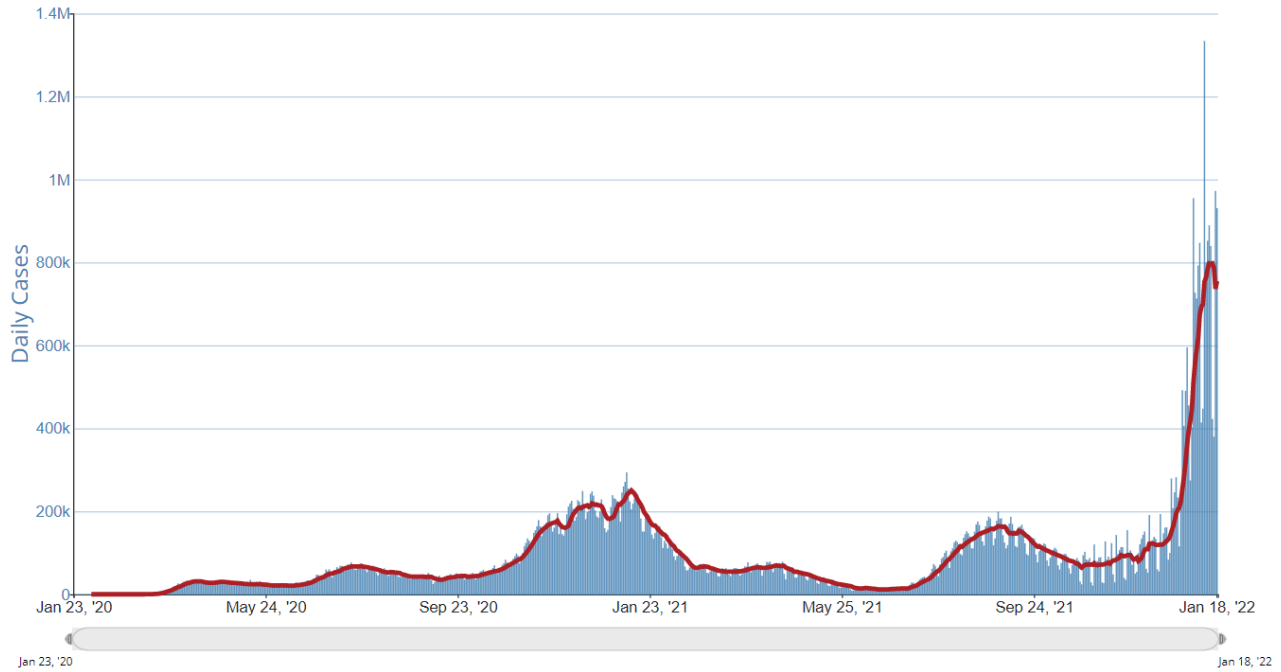
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Daily Trends in Number of COVID-19 Cases in The United States Reported to CDC



	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	756,752	228	+38%	156,894	47	+47%	1,888.5	0.57	63%
Rhode Island ›	4,634	437	+39%	545	51	+53%	8.0	0.76	78%
Wisconsin ›	23,723	407	+260%	2,485	43	+29%	33.0	0.57	63%
South Carolina ›	17,567	341	+216%	2,278	44	+93%	30.3	0.59	54%
Utah ›	10,603	331	+182%	728	23	+57%	8.1	0.25	60%
Hawaii ›	4,348	307	+65%	371	26	+96%	3.0	0.21	75%
Delaware ›	2,920	300	+15%	570	59	+5%	8.4	0.87	65%
North Carolina ›	31,170	297	+111%	4,850	46	+58%	42.1	0.40	58%
California ›	109,623	277	+107%	14,520	37	+110%	111.0	0.28	67%
Vermont ›	1,725	276	+77%	120	19	+66%	1.6	0.26	79%
Arkansas ›	8,309	275	+113%	1,343	45	+82%	13.4	0.44	52%