

Central Iowa COVID19 Update

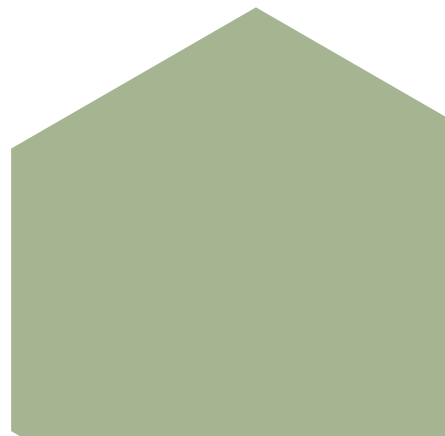
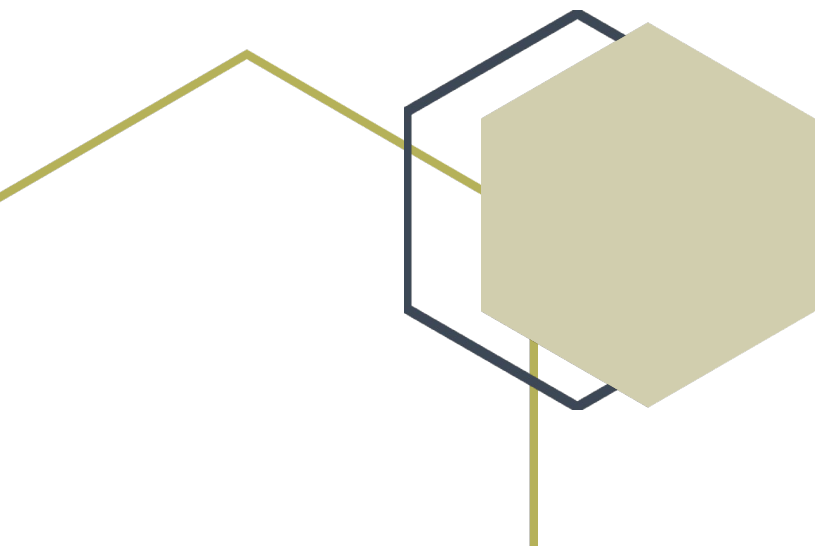
Wednesday, January 12, 2022



Aperio

Statistical Consulting

Dr. Meg Schaeffer





Quick Stats¹

	Polk County	Iowa
Percent of population with 1 dose	71.8%	65.5%
Percent of population with 2 doses	64.9%	59.5%
7d Lab Test Positivity	27.4%	23.8%
Total cases per 100,000 the last 7d	1495	1202
CDC County Transmission Level*	High	
Average daily cases the last 7d	1047	5416

*[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

The Omicron surge is well underway in Iowa. A few states with earlier surges have reached their peak indicating Iowa may peak in 10-14 days. Hospitalizations are extremely high and 30 deaths were reported for Polk County in the last week. Testing capacity is unlikely to capture the true volume of cases.

News & Research

- [Rapid Diagnostic Testing for SARS-CoV-2 | NEJM](#)
- [BNT162b2 Vaccine Booster and Mortality Due to Covid-19 | NEJM](#)
- [Immunity against Omicron from breakthrough infection could be a matter of timing](#)
- [CDC Recommends Moderna Booster at 5 Months](#): On January 4th, [CDC made this recommendation for recipients of a Pfizer-BioNTech primary series](#). After [FDA action](#) on January 7th, we're extending this recommendation to recipients of a Moderna primary series. This means that people who initially received an mRNA vaccine series—two doses of Moderna or Pfizer-BioNTech—can now receive an mRNA booster shot 5 months after completing their initial series.
- [Guidance for COVID-19 Prevention in K-12 Schools](#) was recently updated to reflect new recommendations for isolation for people with COVID-19 and recommendations for people who have come into close contact with a person with COVID-19.
- [CDC Expands Booster Shot Eligibility and Strengthens Recommendations for 12-17 Year Olds](#): CDC now recommends that adolescents age 12 to 17 years old should receive a booster shot 5 months after their initial Pfizer-BioNTech vaccination series.
- [CDC Recommends Pfizer Booster at 5 Months, Additional Primary Dose for Certain Immunocompromised Children](#): On January 4th, CDC updated its recommendation for when many people can receive a booster shot, shortening the interval from 6 months to 5 months for people who received the Pfizer-BioNTech COVID-19 Vaccine.
- [Stay Up to Date with Your Vaccines](#): To align with standard language CDC uses about other vaccinations, CDC is now using the phrase “up to date” when talking about COVID-19 vaccination. CDC recommends that individuals stay “up to date” by receiving any additional doses they are eligible for, according to CDC’s recommendations, to ensure they have optimal protection against COVID-19. The technical definition of “[fully vaccinated](#)”—two doses of an mRNA vaccine or one dose of the J&J vaccine—has not changed.



Vaccine Progress

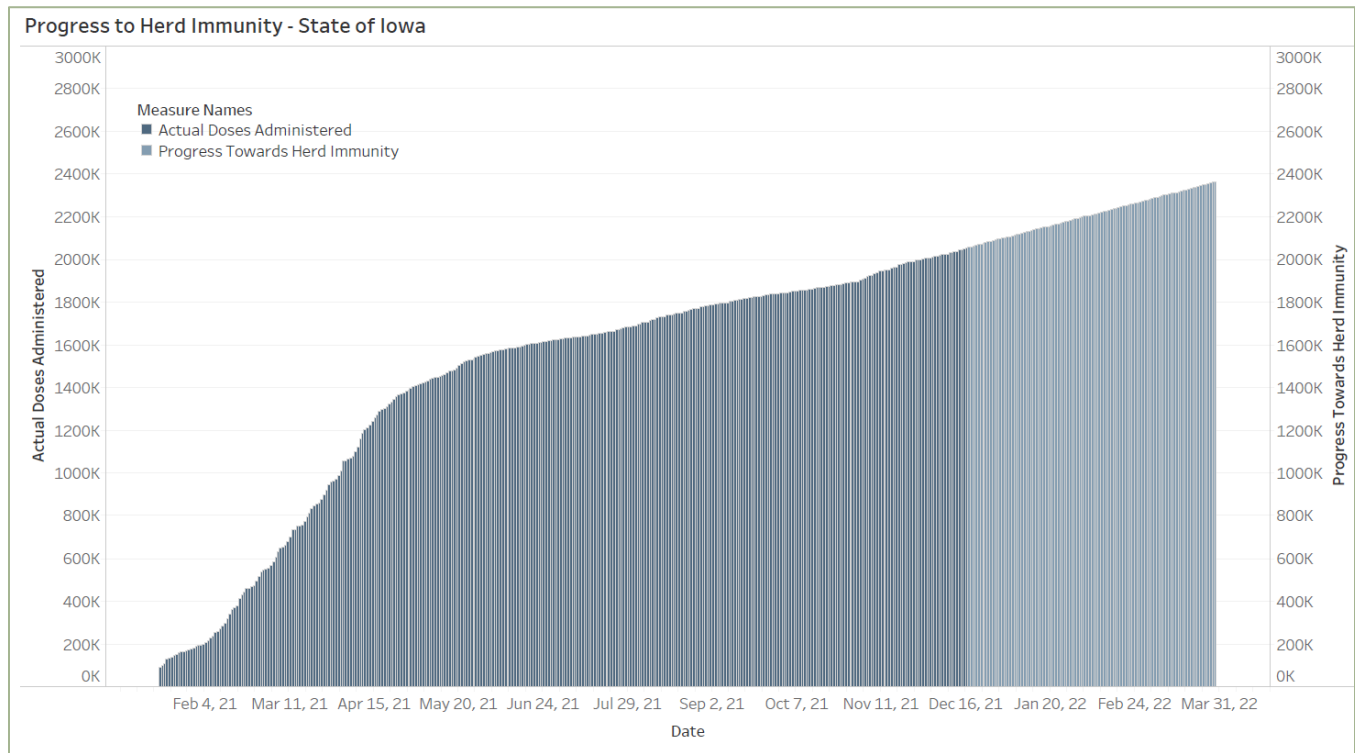
Polk Co Vaccination Rates CDC Covid Data Tracker Data (*)	At Least One Dose	Fully Vaccinated
Total	349,843	316,145
% of Total Population	71.40%	64.50%
Population ≥ 5 Years of Age	349,826	316,145
% of Population ≥ 5 Years of Age	76.80%	69.40%
Population ≥ 12 Years of Age	335,719	305,812
% of Population ≥ 12 Years of Age	82.10%	74.80%
Population ≥ 18 Years of Age	308,838	281,641
% of Population ≥ 18 Years of Age	83.70%	76.30%
Population ≥ 65 Years of Age	67,872	63,108
% of Population ≥ 65 Years of Age	95.00%	95.00%

(*) 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 12/22/21

Link to Zip Code-Level Vaccination

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



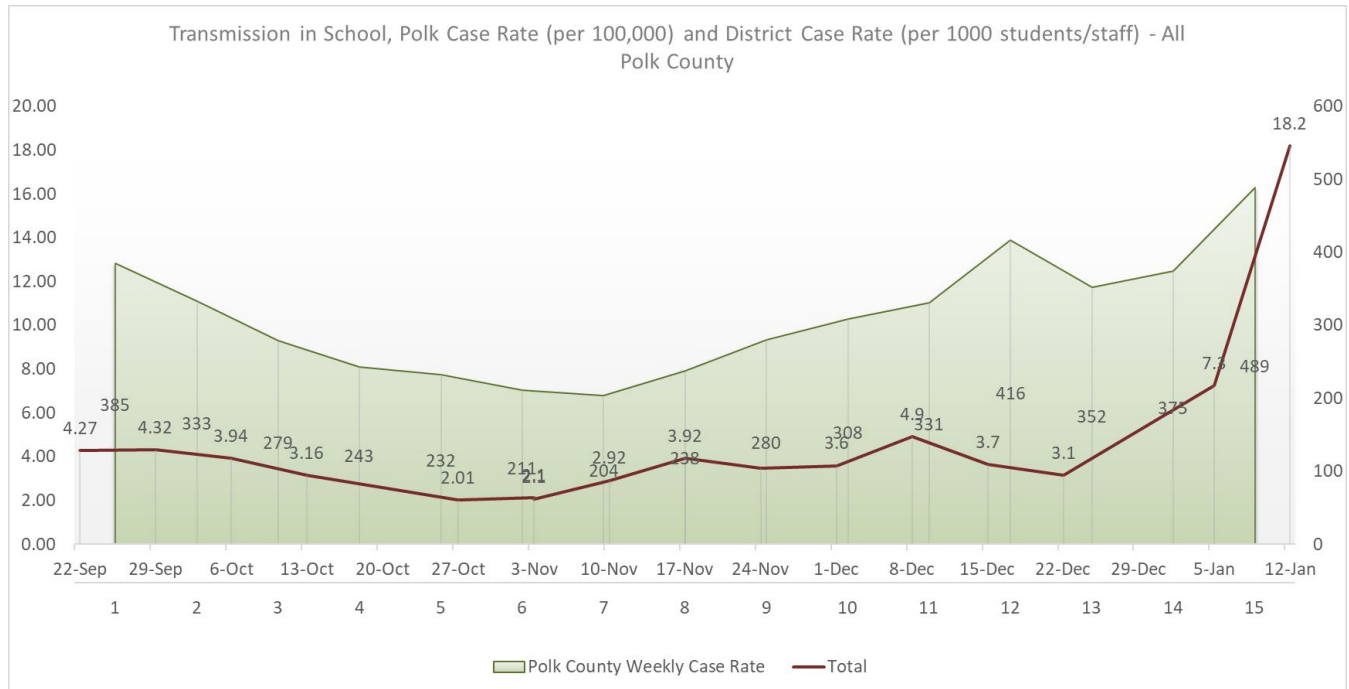
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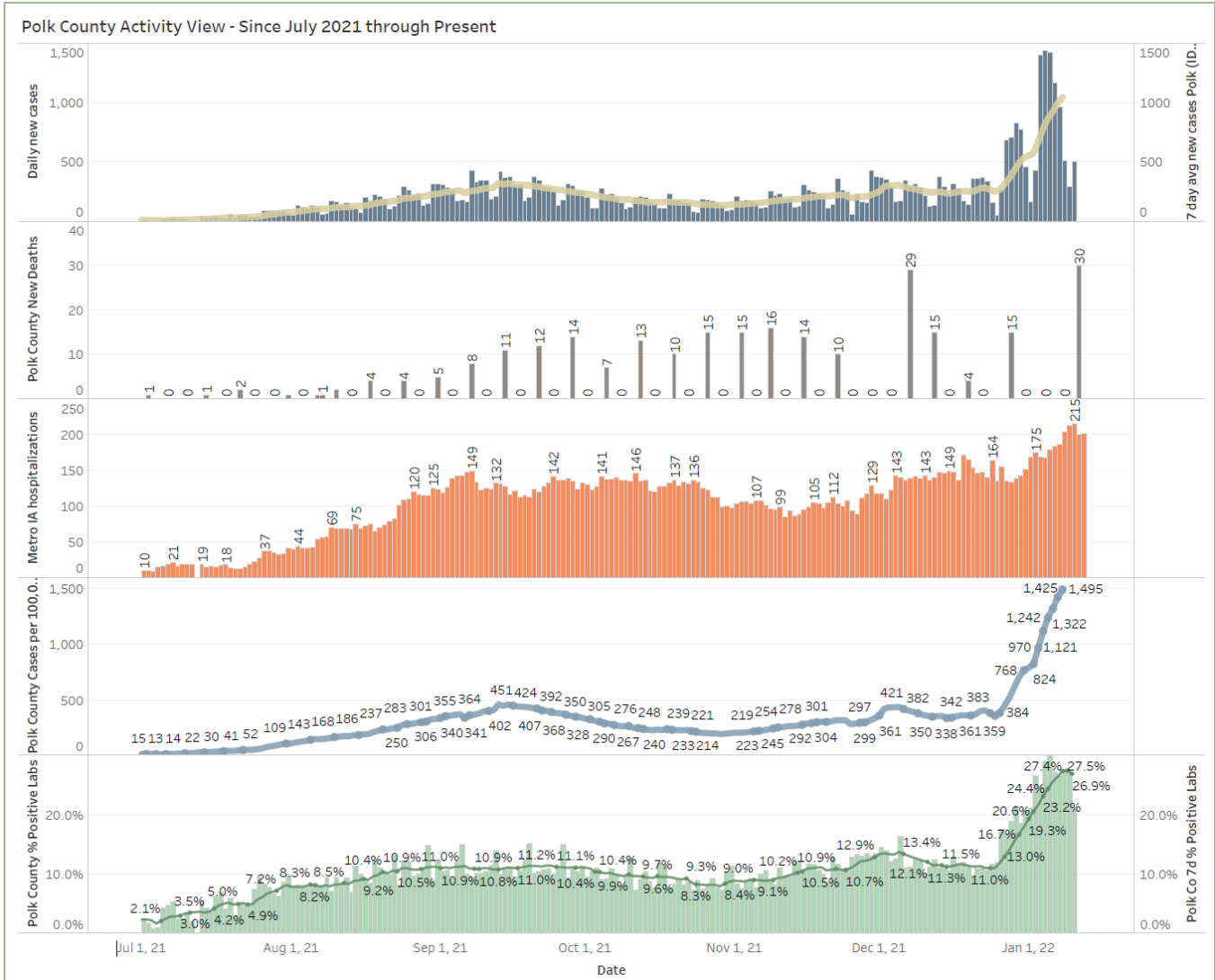
School Data

New Student/Staff Case Rates per 1000																
Week Ending	22-Sep	29-Sep	6-Oct	13-Oct	20-Oct	27-Oct	3-Nov	10-Nov	17-Nov	24-Nov	1-Dec	8-Dec	15-Dec	22-Dec	5-Jan	12-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
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
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
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
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
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
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
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	18.2

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
DMPS*	205	215	146	108	76	68	31	82	70	74	118	167	125	100	261	488
Ankeny	65	65	47	58	45	34	25	33	48	40	39	70	60	56	NA	221
Waukee	43	43	35	32	36	20	49	64	90	105	63	65	48	36	120	210
WDM	39	39	24	24	11	18	25	53	51	45	45	69	46	34	NA	177
Johnston	33	33	25	16	16	17	15	19	24	6	14	24	20	24	NA	72
SE Polk	33	33	38	28	12	13	8	9	16	22	29	37	20	12	13	93
Urbandale	8	8	21	12	5	5	5	4	13	17	12	15	7	11	44	116
Total	426	436	336	278	201	175	158	264	312	309	320	447	326	273	438	1377
Polk Weekly Cases	1885	1633	1368	1192	1137	1032	999	1164	1370	1511	1621	2039	1726	1836	2394	
Polk County Weekly Case Rate	385	333	279	243	232	211	204	238	280	308	331	416	352	375	489	



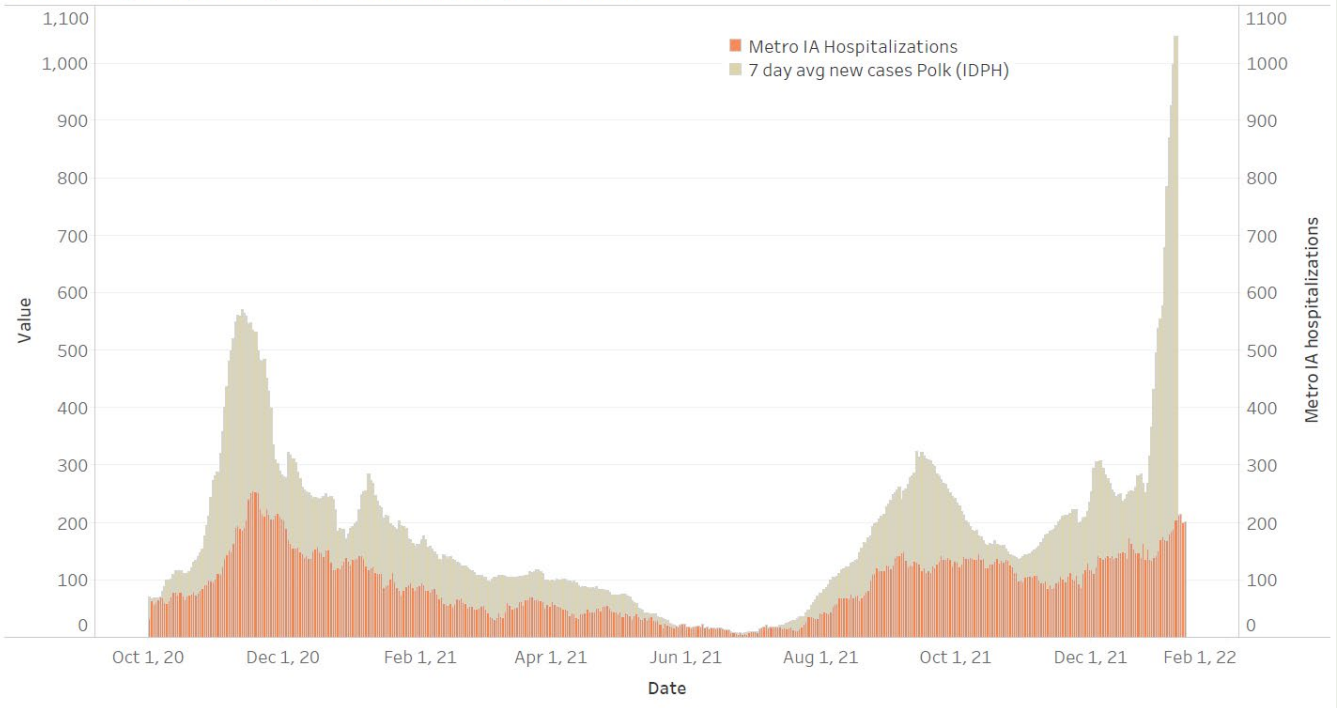
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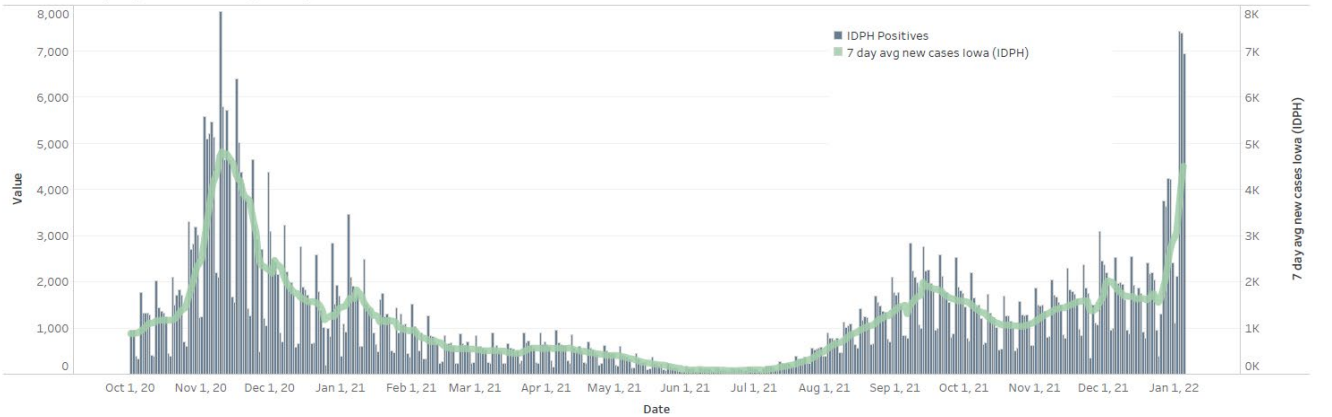
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Polk County 7 day average cases and daily hospitalizations



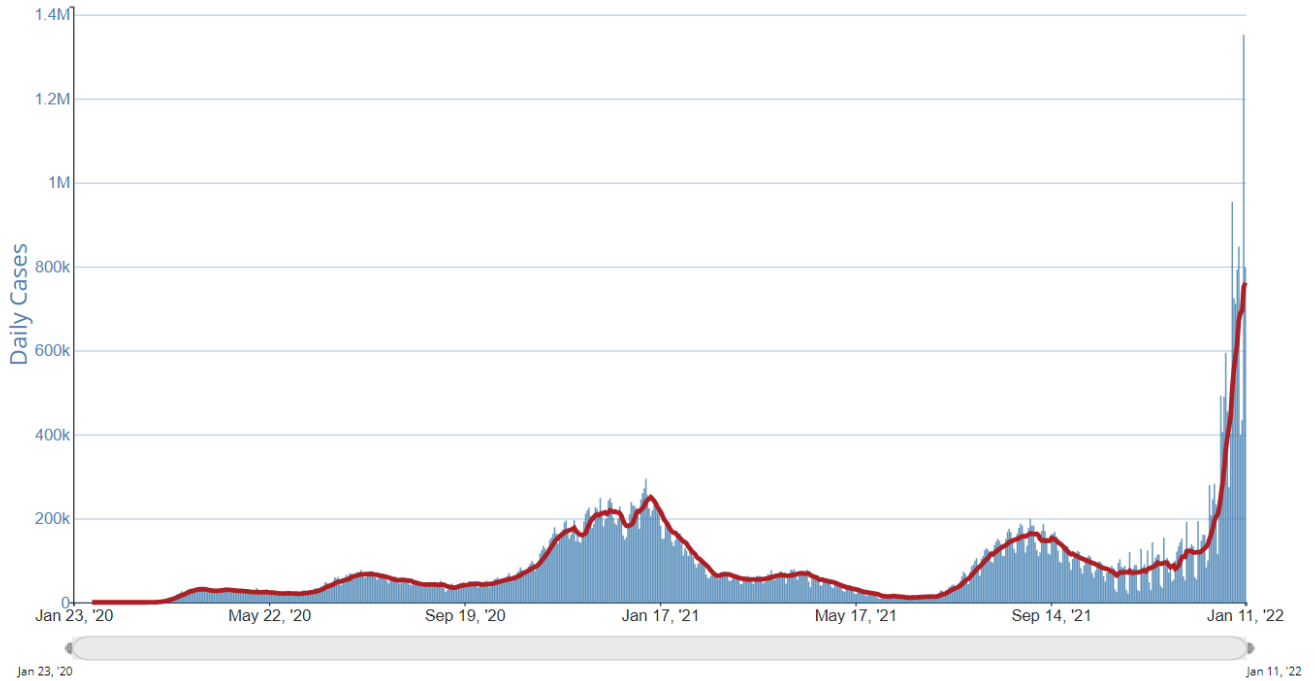
Iowa Cases by Day and 7d Moving Average



Central Iowa COVID19 Update



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	761,122	229	+185%	140,641	42	+84%	1,736.4	0.52	63%
Rhode Island ›	5,369	507	+266%	464	44	+63%	6.9	0.65	77%
New York ›	73,546	378	+98%	12,666	65	+105%	155.6	0.80	73%
Massachusetts ›	24,723	359	+223%	2,753	40	+102%	50.4	0.73	75%
New Jersey ›	31,098	350	+102%	6,118	69	+118%	69.0	0.78	71%
U.S. Virgin Islands ›	331	311	+232%	21	19	+700%	0	—	51%
Florida ›	63,801	297	+140%	10,101	47	+272%	38.9	0.18	64%
Delaware ›	2,684	276	+168%	728	75	+73%	12.4	1.28	65%
Connecticut ›	9,628	270	+148%	1,937	54	+97%	23.0	0.65	75%
Utah ›	8,514	266	+554%	583	18	+39%	15.9	0.49	59%
Hawaii ›	3,739	264	+157%	280	20	+191%	1.4	0.10	65%