



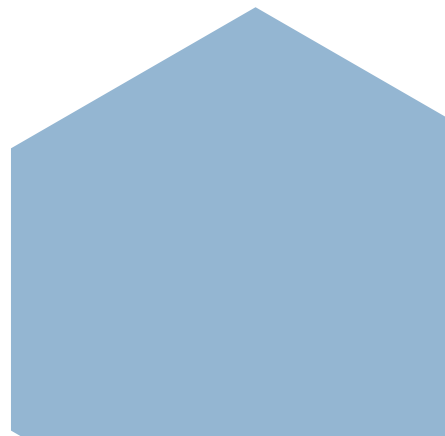
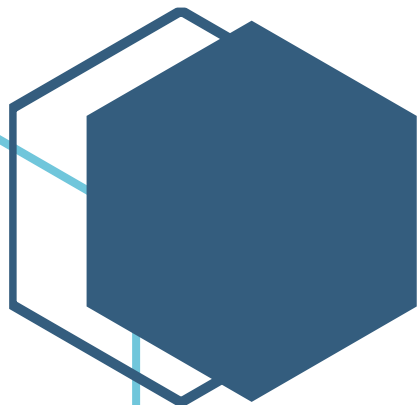
Central Iowa COVID19 Update

Monday, February 1, 2021



Statistical Consulting

Dr. Meg Schaeffer





Quick Stats¹

| | Polk County | Iowa |
|--------------------------------------|-------------|-------|
| 7d Lab Test Positivity | 10.3% | 7.7% |
| 14d Lab Test Positivity | 12.2% | 10.0% |
| Total cases per 100,000 the last 7d | 221 | 185 |
| Total cases per 100,000 the last 14d | 496 | 421 |
| Average daily cases the last 7d | 154 | 833 |
| Average 7-day new cases per 100,000 | 31 | 26 |

¹All 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

- Iowa now has three cases of the UK variant; two in Johnson and one in Bremer County.
- Polk County cases are decreasing, though hospitalizations are stable.
- Influenza activity remains extremely low. [CADE - Iowa Flu Reports](#)
- New variant presents re-infection risk. [SARS-CoV-2 501Y.V2 escapes neutralization by South African COVID-19 donor plasma | bioRxiv](#)
- Demonstration of antibody persistence. [Evolution of antibody immunity to SARS-CoV-2 | Nature](#)
- Within households, children and adolescents were less susceptible to SARS-CoV-2 infection but were more infectious than older individuals. Presymptomatic cases were more infectious and individuals with asymptomatic infection less infectious than symptomatic cases. Household secondary attack rates were 16%. [Household transmission of SARS-CoV-2 and risk factors for susceptibility and infectivity in Wuhan: a retrospective observational study - The Lancet Infectious Diseases](#)
- Support for modified quarantine protocols with testing at day five and release on day seven with negative test. [Quarantine and testing strategies in contact tracing for SARS-CoV-2: a modelling study - The Lancet Public Health](#)

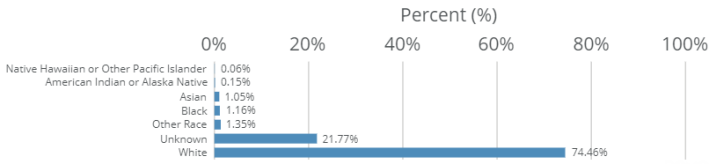
Vaccine

- B.1.351 (South African) variant found in South Carolina and Maryland. The Brazil variant was identified in MN. [US COVID-19 Cases Caused by Variants | CDC](#)
- Trials data shows 75% efficacy, but a lower response to the South African variant. [Johnson & Johnson's Vaccine Offers Strong Protection but Fuels Concern About Variants - The New York Times \(nytimes.com\)](#)
- An excellent resource on the COVID vaccine. [Covid-19 Vaccine: Answers to Key Questions - The New York Times \(nytimes.com\)](#)
- The rate of anaphylaxis is 11.1 per million doses with 71% of reactions occurring within 15 minutes of administration. [Allergic Reactions Including Anaphylaxis After Receipt of the First Dose of Pfizer-BioNTech COVID-19 Vaccine — United States, December 14–23, 2020 | MMWR \(cdc.gov\)](#)
- Vaccination progress in the US. [CDC COVID Data Tracker](#)
- Vaccine development tracker. <https://www.nytimes.com/interactive/2020/science/coronavirus-vaccine-tracker.html>

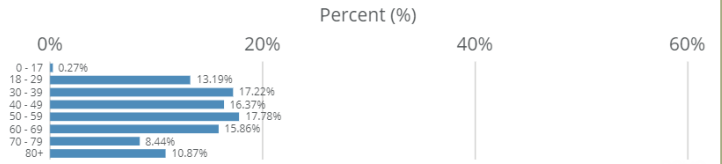


Vaccination Progress – Polk County

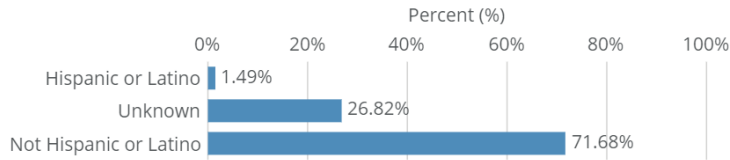
Administration by Race
Doses Administered



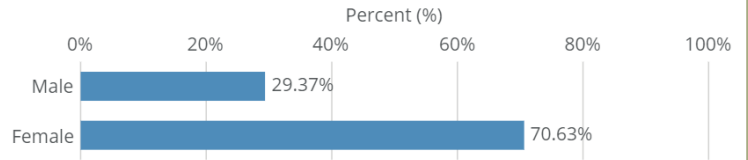
Administration by Age Group
Doses Administered



Administration by Ethnicity
Doses Administered

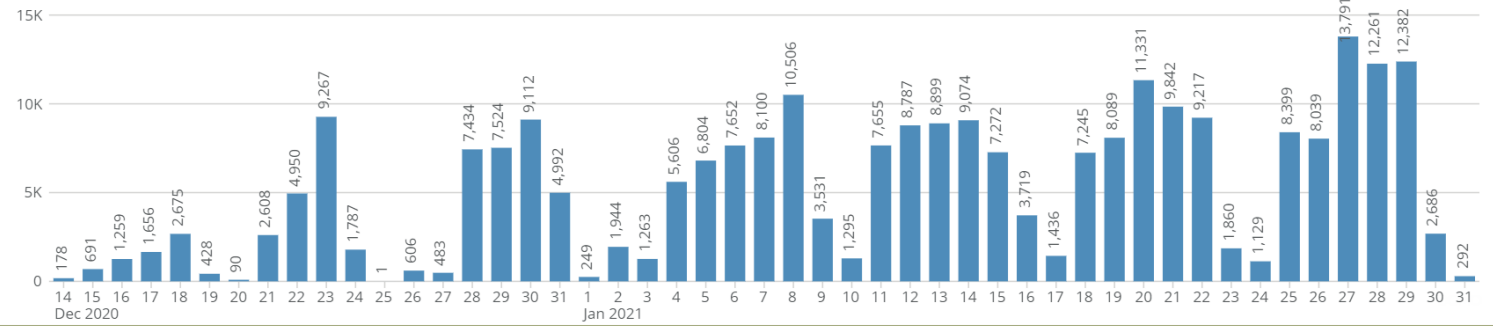


Administration by Sex
Doses Administered



Vaccine Dose Administration by Day (Includes prime and boost doses)
by Day

Doses Administered



Vaccination Progress – Iowa

Total Doses Administered

256,096

Individuals Initiating Vaccination (1st Dose)

134,292

Doses Administered to Iowa Residents

243,705

Individuals Completing Vaccination (2nd Dose)

60,902

Doses Administered by Manufacturer

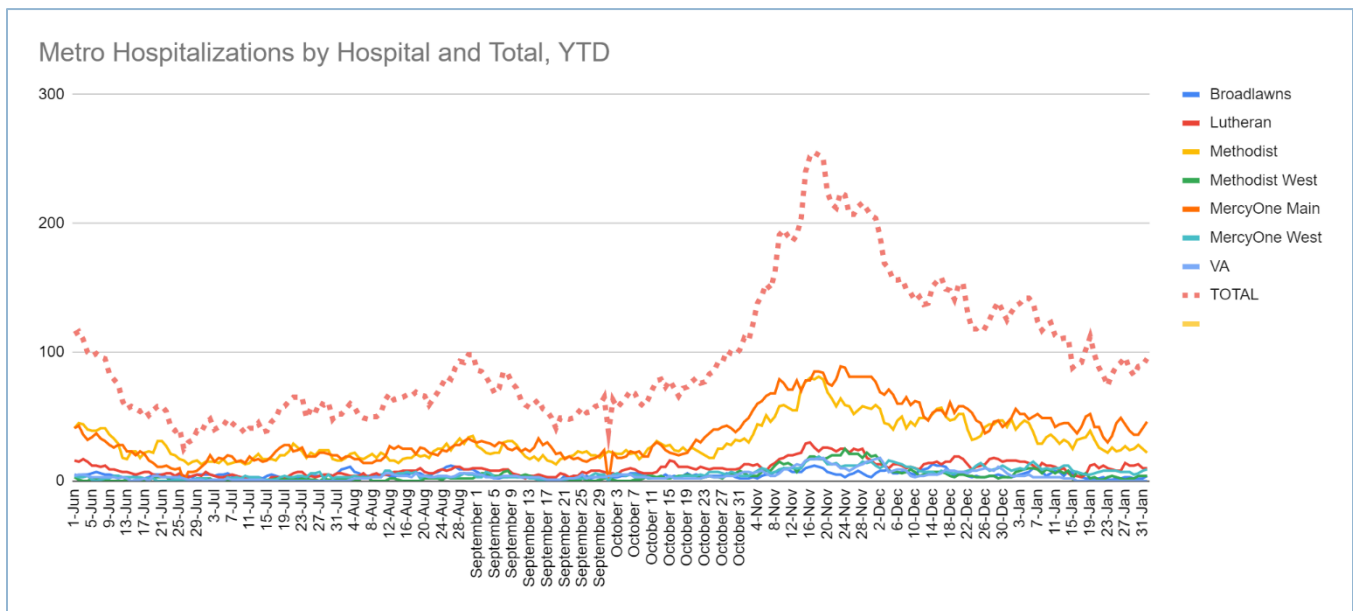
| Vaccine Manufacturer | Doses |
|----------------------|---------|
| Moderna | 138,770 |
| Pfizer | 117,326 |
| Total | 256,096 |



School Statistics – Polk County (Updated per week on Mondays)

| Rate of Student/Staff Cases Per 1,000 | | | | | | | | | | | | |
|---------------------------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Week Ending | 1-Nov | 8-Nov | 15-Nov | 22-Nov | 29-Nov | 13-Dec | 20-Dec | 27-Dec | 10-Jan | 17-Jan | 24-Jan | 31-Jan |
| DMPs* | 0.2 | 4.0 | 0.5 | 0.5 | 0.2 | 0.7 | 0.7 | 0.4 | 4.0 | 1.9 | 2.6 | 0.2 |
| Ankeny | 3.8 | 3.8 | 4.3 | 4.3 | 4.5 | 3.3 | 1.9 | 1.8 | 5.9 | 3.8 | 3.1 | 2.8 |
| Waukee | 5.8 | 10.3 | 9.4 | 6.5 | 4.6 | 3.5 | 1.7 | 1.7 | 4.5 | 5.0 | 2.4 | 3.3 |
| WDM | 2.8 | 5.7 | 11.0 | 4.7 | 1.1 | 2.7 | 1.9 | 0.6 | 4.0 | 4.2 | 1.6 | 2.2 |
| Johnston | 6.3 | 8.3 | 10.4 | 7.1 | 5.4 | 2.3 | 1.7 | 0.3 | 4.6 | 3.4 | 2.1 | 3.3 |
| SE Polk | 4.7 | 5.0 | 8.3 | 7.9 | 7.7 | 3.0 | 4.6 | 2.7 | 3.4 | 5.0 | 3.9 | 2.9 |
| Urbandale | 1.8 | 2.0 | 10.8 | 8.5 | 5.8 | 3.5 | 3.5 | 2.0 | 6.0 | 3.0 | 2.5 | 2.8 |
| DCG | | 6.0 | 10.4 | 9.5 | 13.3 | 4.7 | 0.9 | 2.8 | 2.2 | 2.2 | 2.5 | 1.3 |
| Bondurant | | 8.3 | 7.9 | 13.4 | 13.4 | 3.7 | 2.8 | 7.4 | 0.0 | | 0.9 | 12.5 |
| North Polk | | 4.5 | 5.6 | 5.6 | 4.5 | 1.1 | 1.7 | 2.3 | 3.9 | 1.1 | 7.9 | 5.6 |
| Ballard | | 0.0 | 0.0 | 8.2 | 0.6 | 1.2 | 1.2 | 0.0 | 0.0 | 4.1 | 1.2 | 1.2 |
| Saydel | | 7.5 | 12.7 | 3.0 | 0.0 | 2.2 | 3.0 | 2.2 | 3.7 | 3.7 | 3.7 | 0.7 |

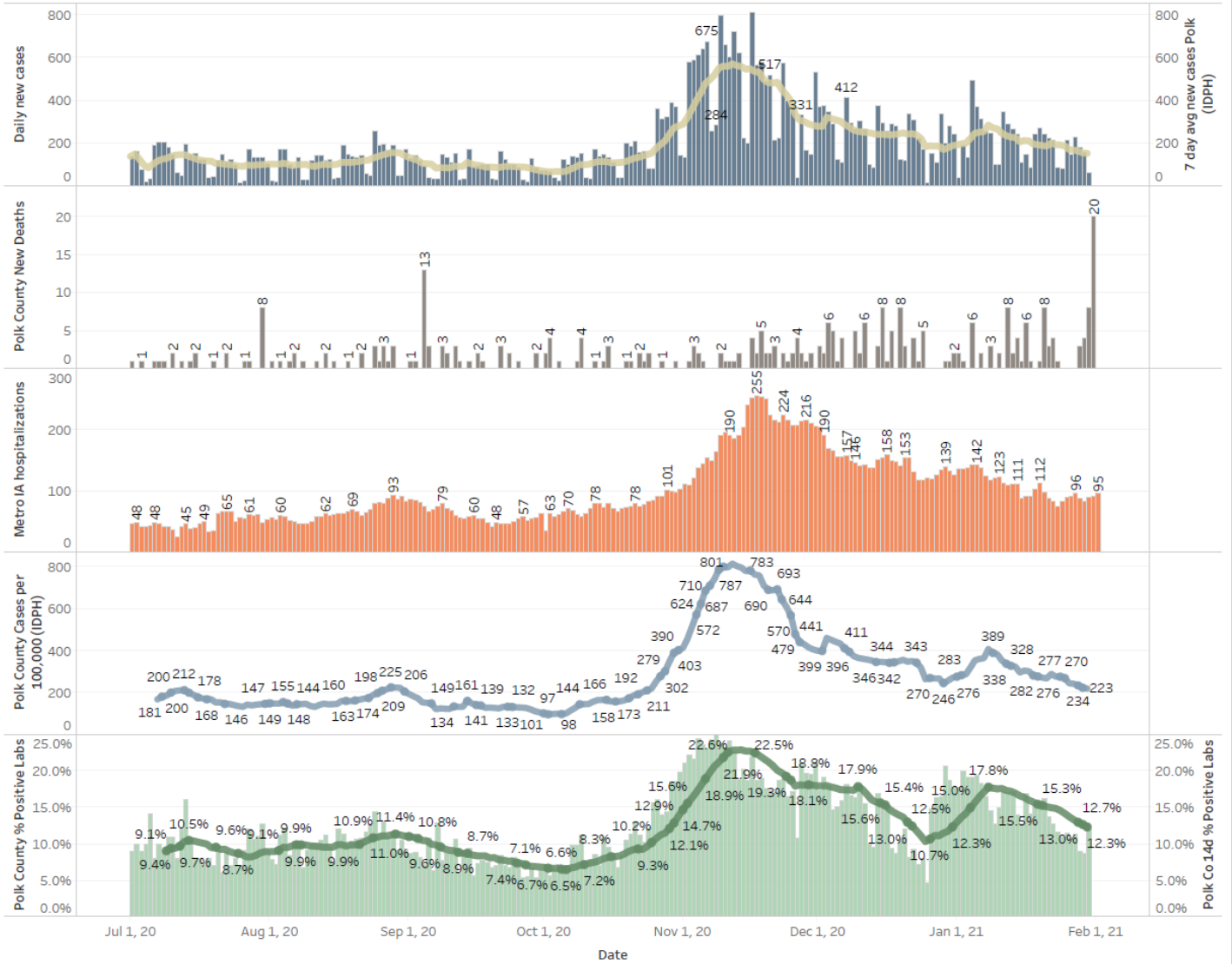
| Students/Staff in Quarantine | | | | | | | | | | | | |
|------------------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Week Ending | 1-Nov | 8-Nov | 15-Nov | 22-Nov | 29-Nov | 13-Dec | 20-Dec | 27-Dec | 10-Jan | 17-Jan | 24-Jan | 31-Jan |
| DMPs* | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Ankeny | 225 | 225 | 370 | 370 | 273 | 172 | 107 | 87 | 132 | 116 | 125 | 138 |
| Waukee | 332 | 500 | 575 | 384 | 160 | 76 | 113 | 136 | 156 | 195 | 95 | 108 |
| WDM | 146 | 204 | 239 | 70 | 12 | 38 | 19 | 14 | 114 | 55 | 54 | 83 |
| Johnston | 586 | 667 | 527 | 318 | 286 | 73 | 78 | 73 | 116 | 147 | 126 | 109 |
| SE Polk | 186 | 211 | 307 | 380 | 401 | 126 | 121 | 129 | 89 | 125 | 129 | 96 |
| Urbandale | 39 | 97 | 180 | 223 | 179 | 49 | 32 | 34 | 43 | 71 | 78 | 50 |
| DCG | | 80 | 159 | 216 | 82 | 69 | 46 | 41 | 33 | 43 | 42 | 44 |
| Bondurant | | 148 | 160 | 167 | 138 | 97 | 55 | 62 | <6 | N/A | 28 | 68 |
| North Polk | | 103 | 101 | 90 | 61 | 55 | 51 | 46 | 30 | 19 | 35 | 57 |
| Ballard | | | | 77 | 40 | 34 | 16 | | 28 | 12 | 25 | 20 |
| Saydel | | 109 | 88 | 65 | 46 | 30 | 33 | 24 | 39 | 26 | 27 | 26 |
| Total | 1514 | 2344 | 2706 | 2360 | 1678 | 819 | 671 | 646 | 780 | 809 | 764 | 799 |



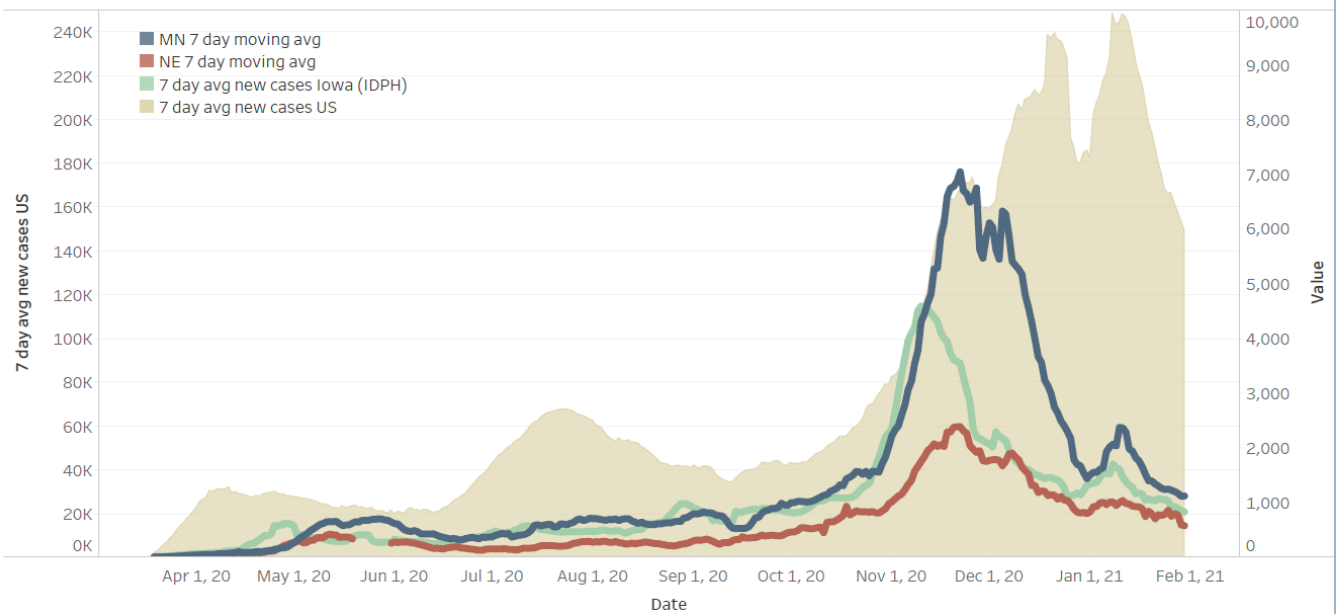
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Polk County Activity View



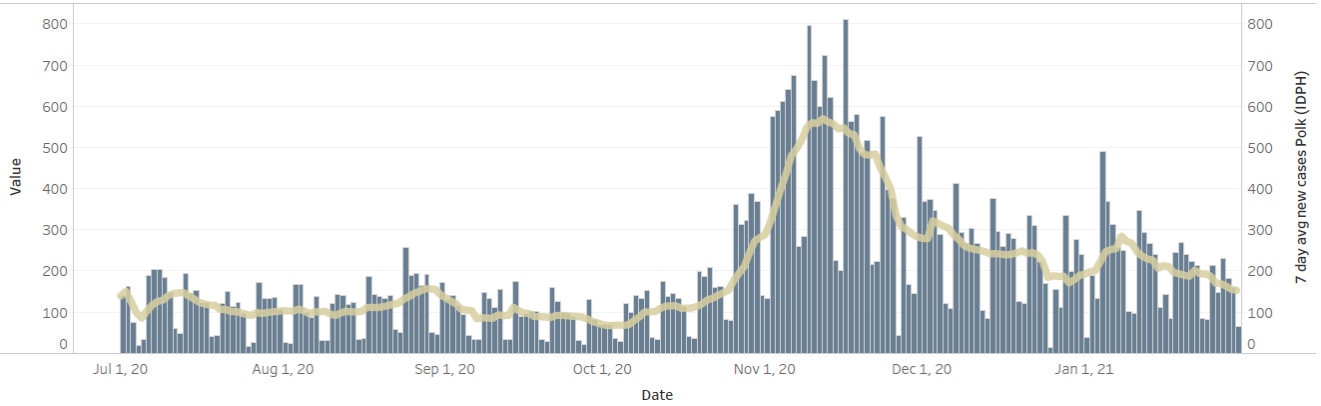
US and Border State Cases



Central Iowa COVID19 Update



Polk County Cases by Day and 7d Moving Average



Iowa Cases by Day and 7d Moving Average

