

# Central Iowa COVID19 Update

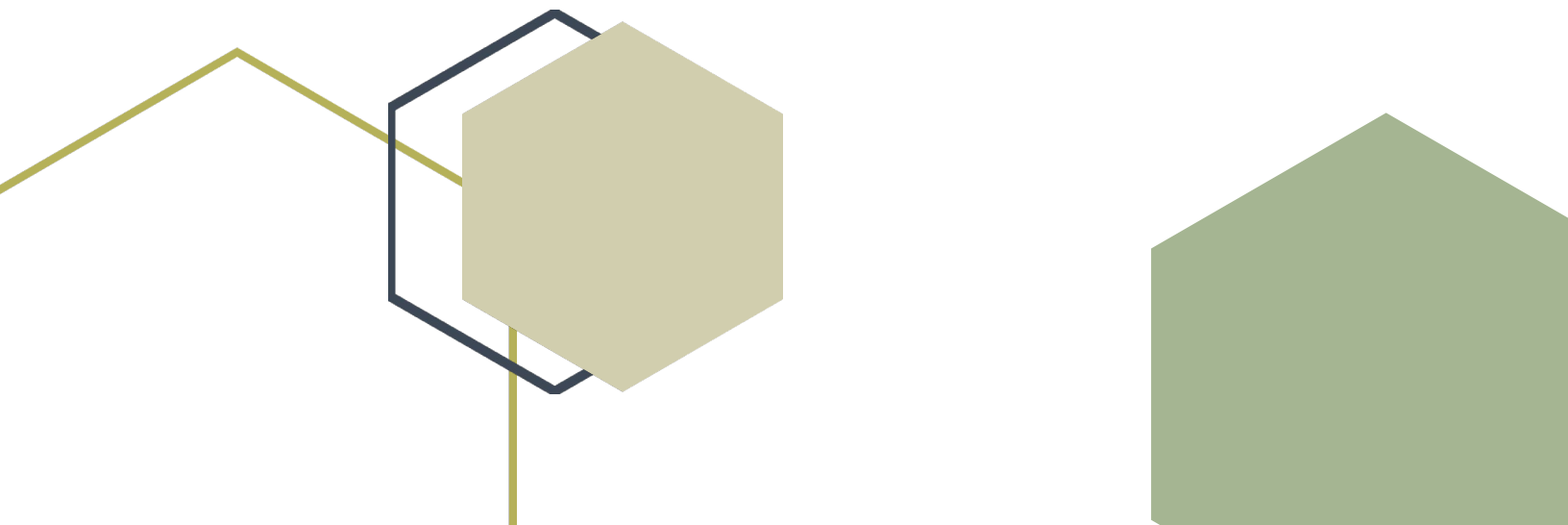
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Wednesday, May 25, 2022



Statistical Consulting

Dr. Meg Schaeffer





## Quick Stats

|  | Polk County | Next Highest Target** | Iowa  |
|--|-------------|-----------------------|-------|
| <b>Community Metrics</b>   |             |                       |       |
| Percent of population with at least 1 dose*  | 74.5%       |                       | 68.1% |
| Percent of population with fully vaccinated*   | 68%         | 85%                   | 62.2% |
| Average daily cases the last 7d  | 140         |                       | 696   |
| CDC County Level**   | Med         | Med                   | NA    |
| Total cases per 100,000 the last 7d**  | 201         | >200                  | 154   |
| <b>Healthcare Metrics</b>  |             |                       |       |
| Percent of staffed inpatient beds occupied by COVID-19 patients (7-day average)**  | 2.4%        | 10-14%                | 1.96% |
| New COVID-19 admissions per 100,000 population (7-day total)**   | 4.2         | 10-19.9               | 6.2   |
| CDC Community Transmission Level (For Healthcare use)  | High        | High                  | High  |
| <p><b>Notes:</b> Community Metrics are <u>defined by CDC</u> and should be used to determine the impact of COVID-19 on communities and take action. Healthcare metrics are also <u>defined by CDC</u> and are used to assist healthcare providers in making planning and mitigation decisions.</p> <p>*<a href="#">Vaccine Information</a>   <a href="#">Iowa COVID-19 Information</a></p> <p>All data are sourced from <a href="#">Novel Coronavirus - COVID-19 Reporting (iowa.gov)</a> 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.</p> <p>**<a href="#">CDC COVID Data Tracker</a></p> |             |                       |       |

## Critical Points, Media, and Research

Polk County case counts appear to have stabilized along with hospitalizations; however, the CDC community level is “medium” as cases per 100,000 in the last 7 days is above 200. State case rates have more recently stabilized. Subvariants of Omicron are most prevalent among U.S. cases.

### News & Research

- On May 19<sup>th</sup>, following the [Advisory Committee on Immunization Practices](#) meeting, CDC strengthened its recommendations and expanded eligibility for [COVID-19 vaccine booster doses](#).
  - CDC expanded eligibility of COVID-19 vaccine booster doses to everyone 5 years of age and older. CDC now recommends that children ages 5 through 11 years should receive a booster shot 5 months after their initial Pfizer-BioNTech vaccination series.
  - CDC also strengthened its recommendation that people ages 12 years and older who are immunocompromised and those ages 50 years and older should receive a second booster dose at least 4 months after their first booster dose.
- [Post-COVID Conditions Among Adult COVID-19 Survivors Aged 18–64 and ≥65 Years — United States, March 2020–November 2021](#)
- [Protection and Waning of Natural and Hybrid Immunity to SARS-CoV-2](#)
- [Evaluation of mRNA-1273 Covid-19 Vaccine in Children 6 to 11 Years of Age](#)
- [COVID-19 vaccine effectiveness against the omicron \(BA.2\) variant in England](#)
- [1 in 5 Adult Covid Survivors in the U.S. May Develop Long Covid, Says CDC](#)



## Vaccine Progress – last updated 5/11

| Polk Co Vaccination Rates CDC Covid Data Tracker Data (*) | At Least One Dose | Difference prev week | Fully Vaccinated | Difference prev week |
|---|-------------------|----------------------|------------------|----------------------|
| <b>Total</b>  | 365,294           | 373                  | 333,145          | 297                  |
| <b>% of Total Population</b>                              | 75%               | 0.1%                 | 68%              | 0.1%                 |
| <b>Population ≥ 5 Years of Age</b>                        | 365,244           | 373                  | 333,145          | 297                  |
| <b>% of Population ≥ 5 Years of Age</b>                   | 80%               | 0.0%                 | 73%              | 0.1%                 |
| <b>Population ≥ 12 Years of Age</b>                       | 347,321           | 308                  | 317,014          | 247                  |
| <b>% of Population ≥ 12 Years of Age</b>                  | 85%               | 0.1%                 | 78%              | 0.0%                 |
| <b>Population ≥ 18 Years of Age</b>                       | 318,940           | 293                  | 291,216          | 228                  |
| <b>% of Population ≥ 18 Years of Age</b>                  | 86%               | 0.1%                 | 79%              | 0.1%                 |
| <b>Population ≥ 65 Years of Age</b>                       | 68,924            | 37                   | 64,551           | 90                   |
| <b>% of Population ≥ 65 Years of Age</b>                  | 95%               | 0.0%                 | 95%              | 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 |
|--|---------|----------------------|
| <b>Total</b>   | 178,646 | 612                  |
| % of Fully Vaccinated Population with a Booster Dose                   | 54%     | 0.1%                 |
| Fully Vaccinated Population ≥ 18 Years of Age with a Booster Dose      | 178,542 | 551                  |
| % of Fully Vaccinated Population ≥ 18 Years of Age with a Booster Dose | 56%     | 0.1%                 |
| Fully Vaccinated Population ≥ 50 Years of Age with a Booster Dose      | 171,471 | 491                  |
| % of Fully Vaccinated Population ≥ 50 Years of Age with a Booster Dose | 59%     | 0.1%                 |
| Fully Vaccinated Population ≥ 65 Years of Age with a Booster Dose      | 52,471  | 134                  |
| % of Fully Vaccinated Population ≥ 65 Years of Age with a Booster Dose | 81%     | 0.1%                 |

(\*)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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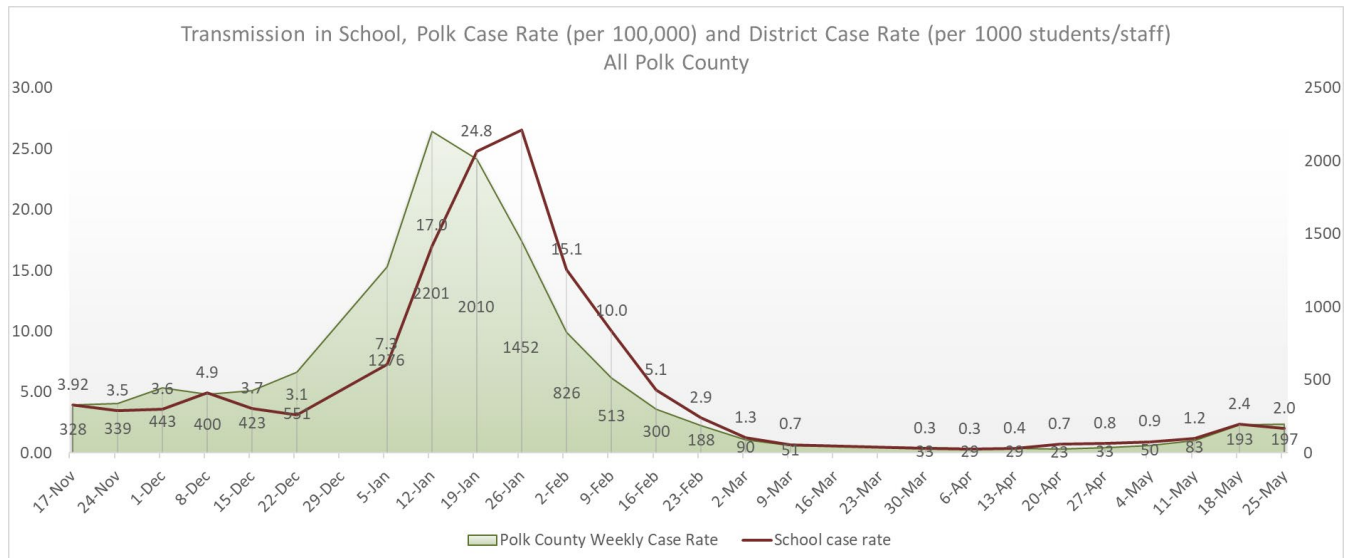


## School Data

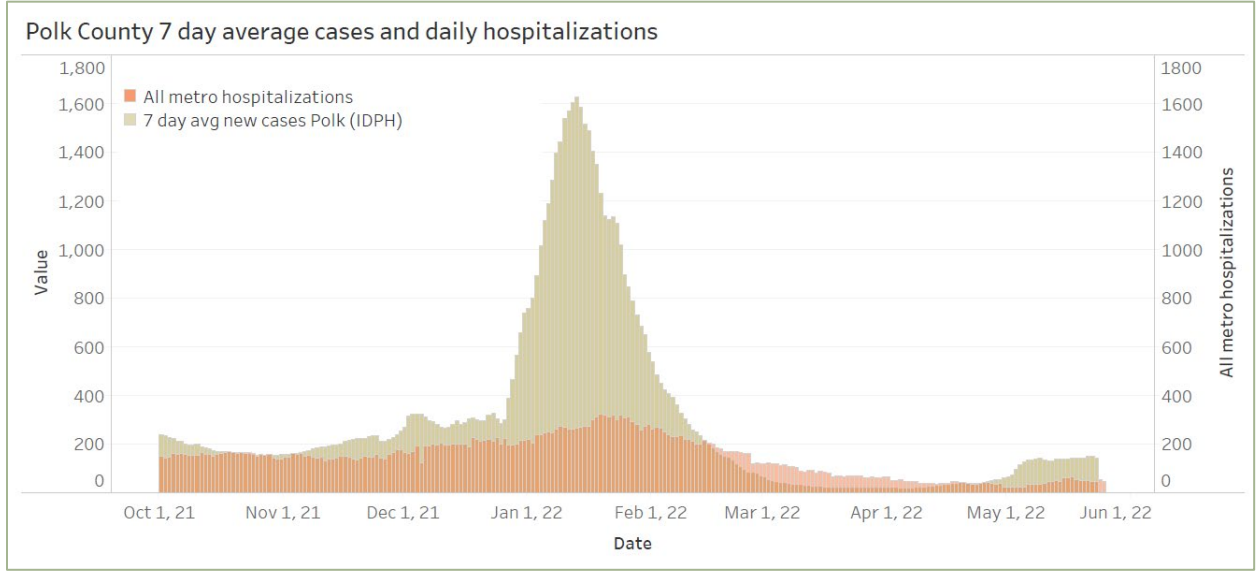
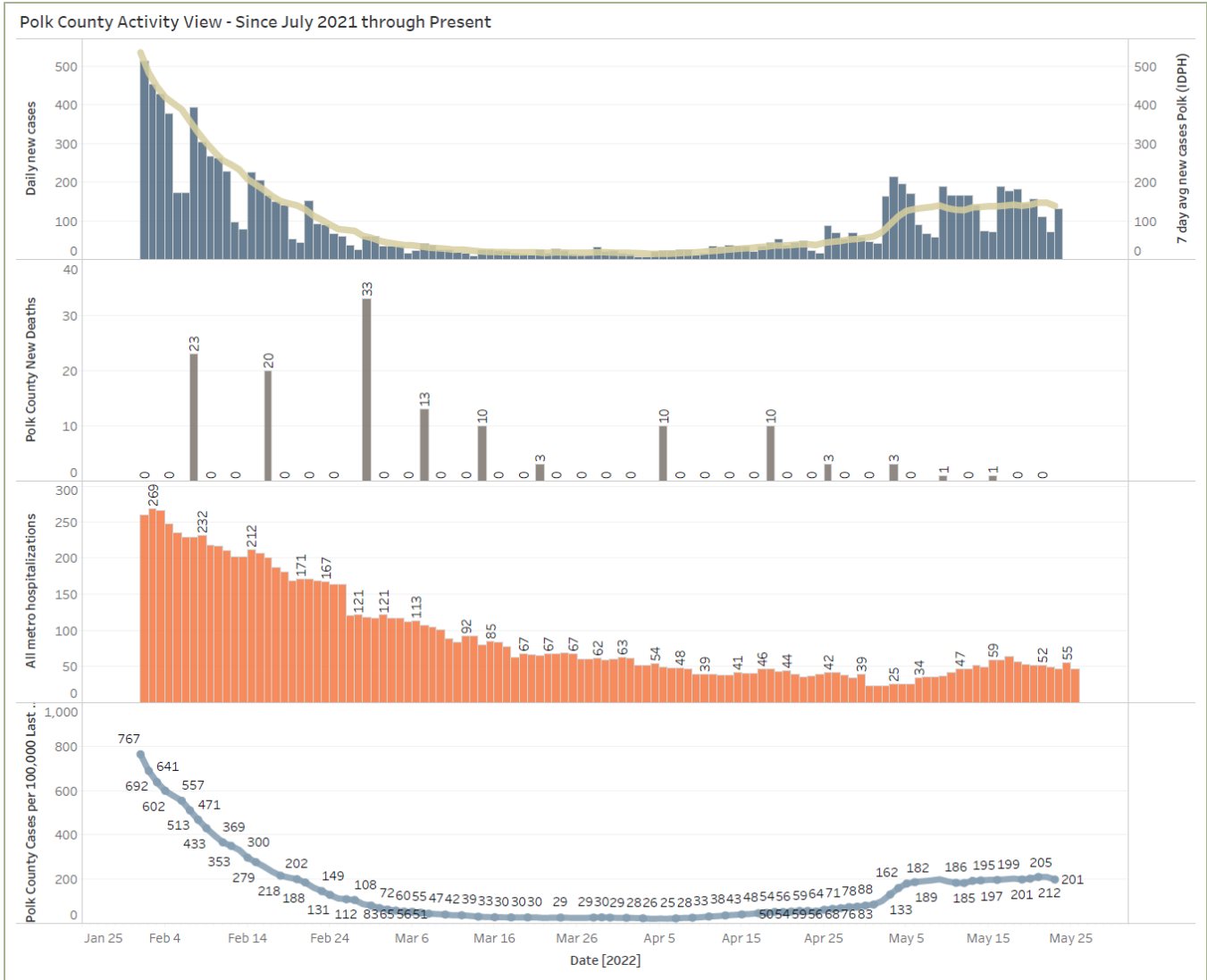
|                  |        | New Student/Staff Case Rates per 1000 |       |       |        |        |       |        |        |        |       |       |        |        |       |       |        |       |        |        |        |       |        |        |        |  |
|------------------|--------|---------------------------------------|-------|-------|--------|--------|-------|--------|--------|--------|-------|-------|--------|--------|-------|-------|--------|-------|--------|--------|--------|-------|--------|--------|--------|--|
| Week Ending      | 17-Nov | 24-Nov                                | 1-Dec | 8-Dec | 15-Dec | 22-Dec | 5-Jan | 12-Jan | 19-Jan | 26-Jan | 2-Feb | 9-Feb | 16-Feb | 23-Feb | 2-Mar | 9-Mar | 30-Mar | 6-Apr | 13-Apr | 20-Apr | 27-Apr | 4-May | 11-May | 18-May | 25-May |  |
| DMPs*            | 2.12   | 2.24                                  | 3.58  | 5.06  | 3.79   | 3.03   | 7.91  | 14.79  | 11.45  | 19.45  | 8.45  | 10.06 | 2.70   | 1.61   | 0.27  | 0.36  | 0.30   | 0.24  | 0.09   | 0.45   | 0.39   | 0.88  | 1.88   | 1.79   | 1.97   |  |
| Ankeny           | 4.00   | 3.33                                  | 3.25  | 5.83  | 5.00   | 4.67   | NA    | 18.42  | 32.08  | 40.58  | 24.83 | 18.33 | 6.42   | 3.42   | 1.92  | 0.50  | 0.17   | 0.17  | 0.17   | 0.67   | 0.67   | 1.17  | 1.42   | 3.42   | 2.92   |  |
| Waukee           | 6.70   | 8.09                                  | 4.43  | 4.52  | 3.57   | 3.04   | 8.26  | 15.74  | 13.22  | 13.04  | 6.94  | 3.22  | 1.74   | 0.78   | 0.09  | 0.17  | 0.17   | 0.17  | 0.78   | 1.30   | 1.30   | 1.48  | 0.96   | 1.48   | 1.04   |  |
| WDM              | 5.67   | 5.00                                  | 5.00  | 7.67  | 5.11   | 3.78   | NA    | 19.67  | 31.67  | 33.44  | 26.11 | 11.56 | 9.11   | 3.33   | 3.33  | 1.22  | 0.22   | 0.56  | 0.22   | 1.00   | 2.00   | 1.44  | 1.44   | 5.00   | 4.33   |  |
| Johnston         | 3.43   | 0.86                                  | 2.00  | 3.43  | 2.86   | 3.43   | NA    | 8.29   | 24.57  | 36.29  | 8.71  | 10.29 | 2.14   | 2.86   | 1.71  | 0.86  | 0.29   | 0.14  | 0.29   | 0.29   | 0.29   | 0.29  | 0.29   | 2.00   | 1.57   |  |
| SE Polk          | 2.29   | 3.14                                  | 4.14  | 5.29  | 2.86   | 1.71   | 1.86  | 13.29  | 14.71  | 11.57  | 10.29 | 4.86  | 2.14   | 1.00   | 0.29  | 0.43  | 0.00   | 0.00  | 0.14   | 0.14   | 0.14   | 0.43  | 0.71   | 1.71   | 1.00   |  |
| Urbandale        | 3.25   | 4.25                                  | 3.00  | 3.75  | 1.75   | 2.75   | 11.00 | 29.00  | 46.00  | 31.50  | 20.00 | 12.00 | 11.75  | 7.00   | 1.25  | 1.25  | 1.25   | 0.75  | 1.00   | 1.00   | 0.75   | 0.75  | 1.75   | 1.25   | 1.00   |  |
| School case rate | 3.92   | 3.5                                   | 3.6   | 4.9   | 3.7    | 3.1    | 7.3   | 17.0   | 24.8   | 26.6   | 15.1  | 10.0  | 5.1    | 2.9    | 1.3   | 0.7   | 0.3    | 0.3   | 0.4    | 0.7    | 0.8    | 0.9   | 1.2    | 2.4    | 2.0    |  |

|                              |        | New Student/Staff Cases |       |       |        |        |       |        |        |        |       |       |        |        |       |       |        |       |        |        |        |       |        |        |        |  |
|------------------------------|--------|-------------------------|-------|-------|--------|--------|-------|--------|--------|--------|-------|-------|--------|--------|-------|-------|--------|-------|--------|--------|--------|-------|--------|--------|--------|--|
| Week Ending                  | 17-Nov | 24-Nov                  | 1-Dec | 8-Dec | 15-Dec | 22-Dec | 5-Jan | 12-Jan | 19-Jan | 26-Jan | 2-Feb | 9-Feb | 16-Feb | 23-Feb | 2-Mar | 9-Mar | 30-Mar | 6-Apr | 13-Apr | 20-Apr | 27-Apr | 4-May | 11-May | 18-May | 25-May |  |
| DMPs*                        | 70     | 74                      | 118   | 167   | 125    | 100    | 261   | 488    | 378    | 642    | 279   | 332   | 89     | 53     | 9     | 12    | 10     | 8     | 3      | 15     | 13     | 29    | 62     | 59     | 65     |  |
| Ankeny                       | 48     | 40                      | 39    | 70    | 60     | 56     | NA    | 221    | 385    | 487    | 298   | 220   | 77     | 41     | 23    | 6     | 2      | 2     | 2      | 8      | 8      | 14    | 17     | 41     | 35     |  |
| Waukee                       | 90     | 105                     | 63    | 65    | 48     | 36     | 120   | 210    | 186    | 150    | 80    | 37    | 20     | 9      | 1     | 2     | 2      | 2     | 9      | 15     | 15     | 17    | 11     | 17     | 12     |  |
| WDM                          | 51     | 45                      | 45    | 69    | 46     | 34     | NA    | 177    | 285    | 301    | 235   | 104   | 82     | 30     | 30    | 11    | 2      | 5     | 2      | 9      | 18     | 13    | 13     | 45     | 39     |  |
| Johnston                     | 24     | 6                       | 14    | 24    | 20     | 24     | NA    | 72     | 208    | 254    | 61    | 72    | 15     | 20     | 12    | 6     | 2      | 1     | 2      | 2      | 2      | 2     | 2      | 14     | 11     |  |
| SE Polk                      | 16     | 22                      | 29    | 37    | 20     | 12     | 13    | 93     | 103    | 81     | 72    | 34    | 15     | 7      | 2     | 3     | 0      | 0     | 1      | 1      | 1      | 3     | 5      | 12     | 7      |  |
| Urbandale                    | 13     | 17                      | 12    | 15    | 7      | 11     | 44    | 116    | 184    | 126    | 80    | 48    | 47     | 28     | 5     | 5     | 5      | 3     | 4      | 4      | 3      | 7     | 5      | 4      |        |  |
| Total School Cases           | 312    | 309                     | 320   | 447   | 326    | 273    | 438   | 1377   | 1729   | 2041   | 1105  | 847   | 345    | 188    | 82    | 45    | 23     | 21    | 23     | 54     | 60     | 81    | 117    | 193    | 173    |  |
| Polk Weekly Cases            | 1607   | 1663                    | 2172  | 1959  | 2074   | 2700   | 6251  | 10785  | 9850   | 7116   | 4045  | 2515  | 1468   | 919    | 439   | 250   | 162    | 144   | 141    | 114    | 164    | 246   | 406    | 946    | 963    |  |
| Polk County Weekly Case Rate | 3.28   | 3.39                    | 4.43  | 4.00  | 4.23   | 5.51   | 12.76 | 22.01  | 20.10  | 14.52  | 8.26  | 5.13  | 3.00   | 1.88   | 0.90  | 0.51  | 0.33   | 0.29  | 0.29   | 0.23   | 0.33   | 0.50  | 0.83   | 1.93   | 1.97   |  |



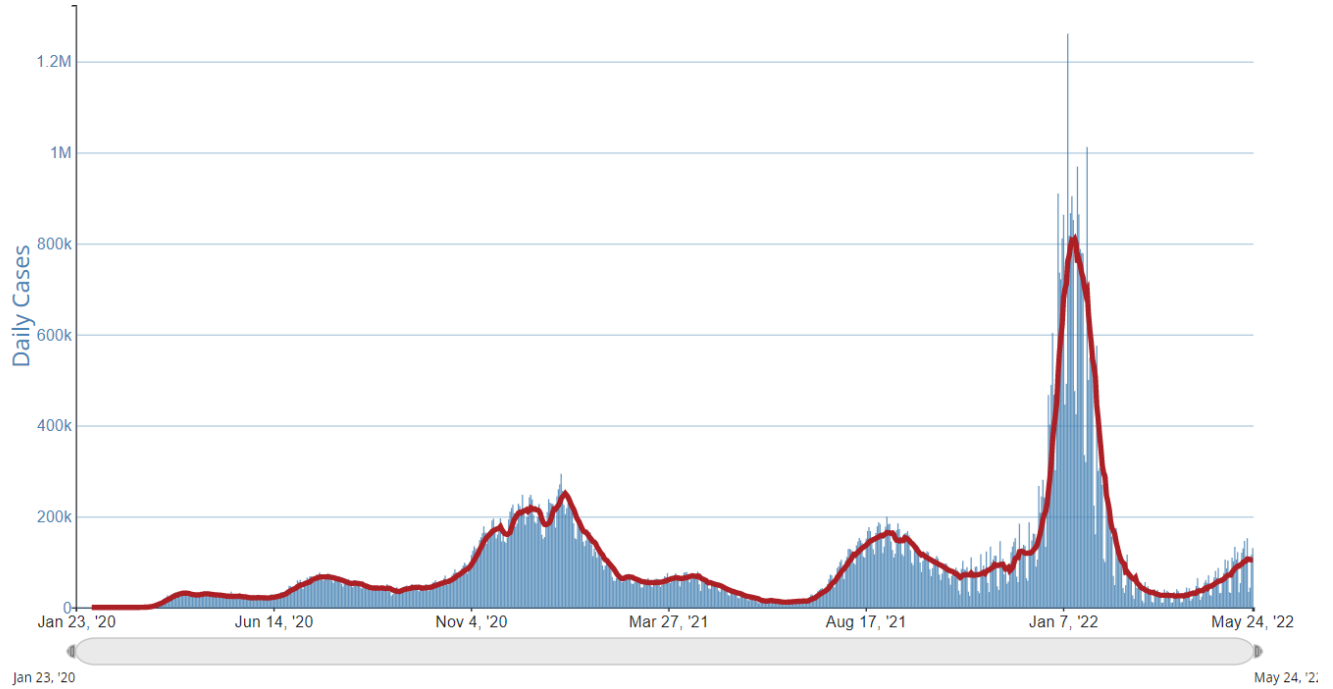
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Daily Trends in Number of COVID-19 Cases in The United States Reported to CDC



|                       | CASES<br>DAILY AVG. | PER<br>100,000 | 14-DAY<br>CHANGE | HOSPITALIZED<br>DAILY AVG. | PER<br>100,000 | 14-DAY<br>CHANGE | DEATHS<br>DAILY AVG. | PER<br>100,000 | FULLY<br>VACCINATED |
|-----------------------|---------------------|----------------|------------------|----------------------------|----------------|------------------|----------------------|----------------|---------------------|
| United States         | 108,082             | 33             | +40%             | 25,383                     | 8              | +30%             | 330.7                | 0.1            | 67%                 |
| Puerto Rico ›         | 4,360               | 129            | -1%              | 389                        | 11             | +36%             | 7.3                  | 0.22           | 79%                 |
| U.S. Virgin Islands › | 106                 | 100            | -23%             | 12                         | 11             | -1%              | 0                    | —              | 54%                 |
| Hawaii ›              | 1,003               | 71             | +69%             | 142                        | 10             | +51%             | 1.7                  | 0.12           | 79%                 |
| Rhode Island ›        | 731                 | 69             | +3%              | 88                         | 8              | +2%              | 0.9                  | 0.08           | 83%                 |
| Delaware ›            | 573                 | 59             | +64%             | 226                        | 23             | +20%             | 0.9                  | 0.09           | 70%                 |
| New Jersey ›          | 5,073               | 57             | +37%             | 931                        | 10             | +34%             | 9.9                  | 0.11           | 76%                 |
| Massachusetts ›       | 3,792               | 55             | +2%              | 901                        | 13             | +33%             | 13.1                 | 0.19           | 79%                 |
| Vermont ›             | 342                 | 55             | +2%              | 66                         | 11             | +5%              | 0.9                  | 0.14           | 82%                 |
| New York ›            | 9,439               | 49             | -1%              | 2,883                      | 15             | +10%             | 24.7                 | 0.13           | 77%                 |
| Maine ›               | 618                 | 46             | -11%             | 227                        | 17             | +4%              | 0.8                  | 0.06           | 80%                 |