

# Central Iowa COVID19 Update

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Wednesday, April 27, 2022



Statistical Consulting

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## Quick Stats

|   | Polk County | Next Highest Target** | Iowa  |
|---|-------------|-----------------------|-------|
| Percent of population with at least 1 dose*                                       | 74.3%       |                       | 67.9% |
| Percent of population with fully vaccinated*                                      | 67.7%       | 85%                   | 61.9% |
| Average daily cases the last 7d   | 41          |                       | 285   |
| CDC County Transmission Level***  | Low         | Med                   |       |
| Total cases per 100,000 the last 7d**   | 59          | >200                  | 63    |
| Percent of staffed inpatient beds occupied by COVID-19 patients (7-day average)** | 1.1%        | 10-14%                | 1.31% |
| New COVID-19 admissions per 100,000 population (7-day total)**                    | 2.2         | 10-19.9               | 3.5   |

\*[Vaccine Information](#) | [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.

\*\*[CDC COVID Data Tracker](#)

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

## Critical Points, Media, and Research

Iowa case counts continue to rise, though at low levels compared to previous surges. Most of the U.S. is experiencing increasing case counts. States with rises that started earlier than Iowa are averaging six weeks until an increase plateaus. Iowa is in its second week of increasing counts. Hospitalizations are up only slightly and deaths remain low. According to CDC, over 60% of the U.S. population has evidence of previous COVID-19 infection; children around 75%. CDC is encouraging continued vaccination and boosting, especially for vulnerable persons, to limit the impact of the current and future surges.

## News & Research

- [The Coronavirus Has Infected More Than Half of Americans, the C.D.C. Reports](#)
- [Fauci clarifies that the pandemic isn't over, after saying the U.S. is out of the 'pandemic phase.'](#)
- [FDA approves remdesivir to treat young children with Covid-19](#)
- [Intramuscular AZD7442 \(Tixagevimab–Cilgavimab\) for Prevention of Covid-19 | NEJM](#)
- [SARS-COV2 placentitis and pregnancy outcome: A multicentre experience during the Alpha and early Delta waves of coronavirus pandemic in England - eClinicalMedicine \(thelancet.com\)](#)
- [Effectiveness of COVID-19 mRNA Vaccination in Preventing COVID-19–Associated Hospitalization Among Adults with Previous SARS-CoV-2 Infection — United States, June 2021–February 2022 | MMWR \(cdc.gov\)](#)
- [COVID-19 Mortality and Vaccine Coverage — Hong Kong Special Administrative Region, China, January 6, 2022–March 21, 2022 | MMWR \(cdc.gov\)](#)



## Vaccine Progress

| Polk Co Vaccination Rates CDC Covid Data Tracker Data (*) | At Least One Dose | Difference prev week | Fully Vaccinated | Difference prev week |
|---|-------------------|----------------------|------------------|----------------------|
| <b>Total</b>  | 363,981           | 309                  | 331,737          | 473                  |
| <b>% of Total Population</b>                              | 74%               | 0.1%                 | 68%              | 0.1%                 |
| <b>Population ≥ 5 Years of Age</b>                        | 363,932           | 308                  | 331,737          | 473                  |
| <b>% of Population ≥ 5 Years of Age</b>                   | 80%               | 0.0%                 | 73%              | 0.1%                 |
| <b>Population ≥ 12 Years of Age</b>                       | 346,272           | 254                  | 315,850          | 403                  |
| <b>% of Population ≥ 12 Years of Age</b>                  | 85%               | 0.1%                 | 77%              | 0.1%                 |
| <b>Population ≥ 18 Years of Age</b>                       | 318,002           | 232                  | 290,188          | 381                  |
| <b>% of Population ≥ 18 Years of Age</b>                  | 86%               | 0.0%                 | 79%              | 0.1%                 |
| <b>Population ≥ 65 Years of Age</b>                       | 68,744            | 75                   | 64,146           | 150                  |
| <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>   | 176,223 | 758                  |
| % of Fully Vaccinated Population with a Booster Dose                   | 53%     | 0.1%                 |
| Fully Vaccinated Population ≥ 18 Years of Age with a Booster Dose      | 176,182 | 752                  |
| % of Fully Vaccinated Population ≥ 18 Years of Age with a Booster Dose | 56%     | 0.2%                 |
| Fully Vaccinated Population ≥ 50 Years of Age with a Booster Dose      | 169,389 | 684                  |
| % of Fully Vaccinated Population ≥ 50 Years of Age with a Booster Dose | 58%     | 0.2%                 |
| Fully Vaccinated Population ≥ 65 Years of Age with a Booster Dose      | 51,885  | 229                  |
| % of Fully Vaccinated Population ≥ 65 Years of Age with a Booster Dose | 81%     | 0.2%                 |

(\*)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.

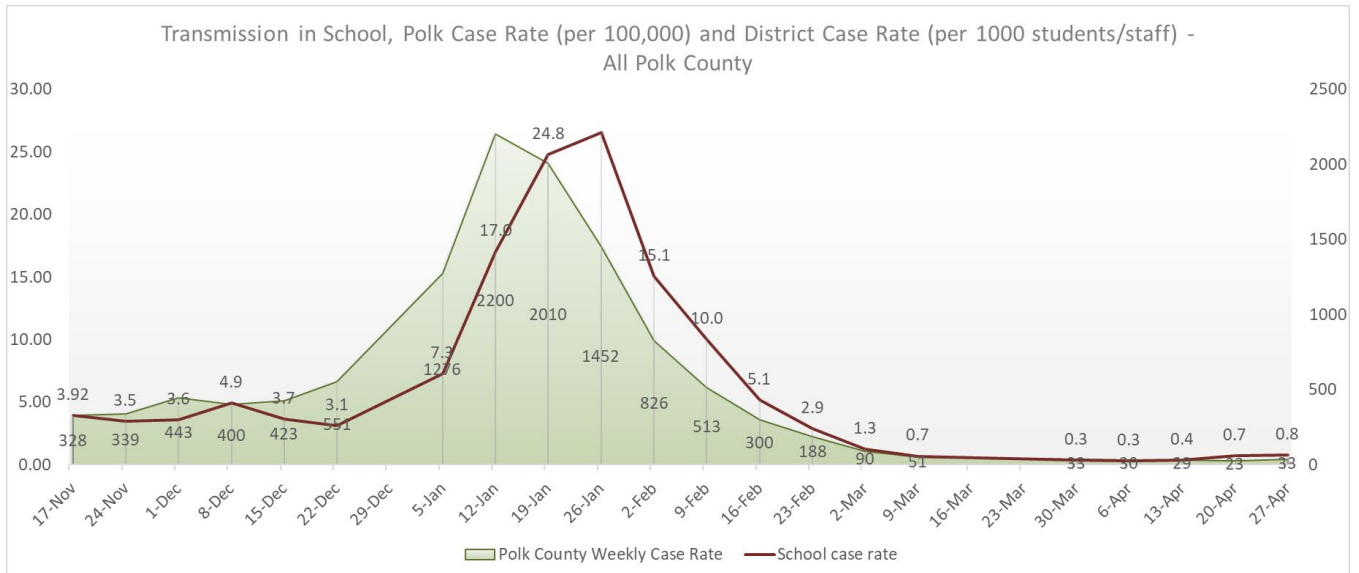
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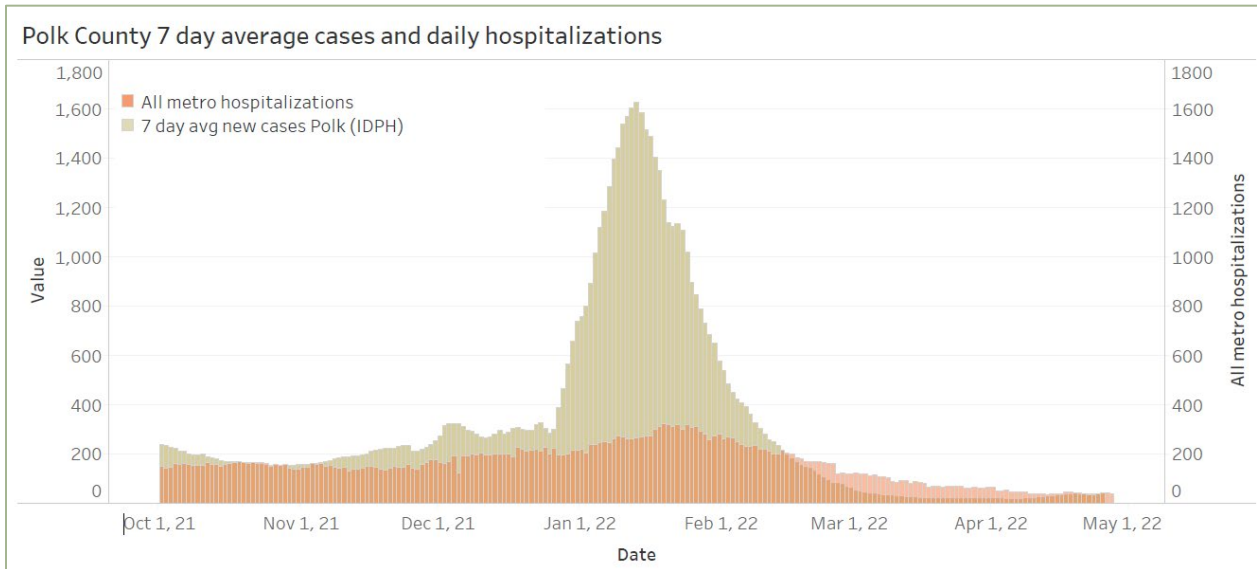
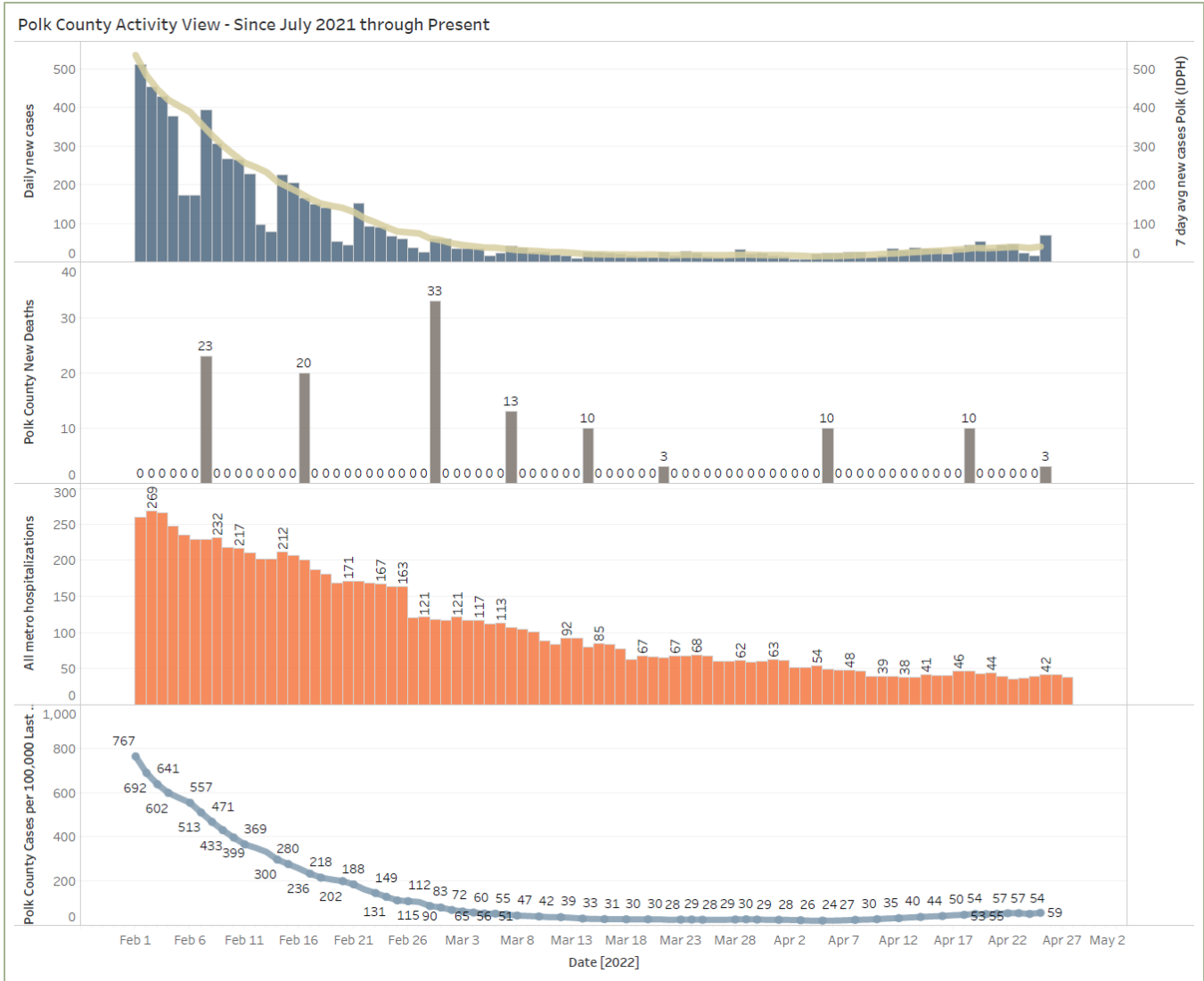
## School Data

| Week Ending      | New Student/Staff Case Rates per 1000 |        |       |       |        |        |       |        |        |        |       |       |        |        |       |       |        |       |        |        |        |
|------------------|---------------------------------------|--------|-------|-------|--------|--------|-------|--------|--------|--------|-------|-------|--------|--------|-------|-------|--------|-------|--------|--------|--------|
|                  | 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 |
| 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   |
| 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   |
| Waukee           | 6.70                                  | 8.09   | 4.43  | 4.52  | 3.57   | 3.04   | 8.26  | 15.74  | 13.22  | 13.04  | 6.96  | 3.22  | 1.74   | 0.78   | 0.09  | 0.17  | 0.17   | 0.17  | 0.78   | 1.30   | 1.30   |
| 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   |
| 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   |
| 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   |
| 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   |
| 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    |

| Week Ending                  | New Student/Staff Cases |        |       |       |        |        |       |        |        |        |       |       |        |        |        |       |        |       |        |        |        |
|------------------------------|-------------------------|--------|-------|-------|--------|--------|-------|--------|--------|--------|-------|-------|--------|--------|--------|-------|--------|-------|--------|--------|--------|
|                              | 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 | 23-Feb | 9-Mar | 30-Mar | 6-Apr | 13-Apr | 20-Apr | 27-Apr |
| DMPs*                        | 70                      | 74     | 118   | 167   | 125    | 100    | 261   | 488    | 378    | 642    | 279   | 332   | 89     | 53     | 9      | 12    | 10     | 8     | 3      | 15     | 13     |
| Ankeny                       | 48                      | 40     | 39    | 70    | 60     | 56     | NA    | 221    | 385    | 487    | 298   | 220   | 77     | 41     | 23     | 6     | 2      | 2     | 2      | 8      | 8      |
| Waukee                       | 90                      | 105    | 63    | 65    | 48     | 36     | 120   | 210    | 186    | 150    | 80    | 37    | 20     | 9      | 1      | 2     | 2      | 2     | 9      | 15     | 15     |
| WDM                          | 51                      | 45     | 45    | 69    | 46     | 34     | NA    | 177    | 285    | 301    | 235   | 104   | 82     | 30     | 30     | 11    | 2      | 5     | 2      | 9      | 18     |
| Johnston                     | 24                      | 6      | 14    | 24    | 20     | 24     | NA    | 72     | 208    | 254    | 61    | 72    | 15     | 20     | 12     | 6     | 2      | 1     | 2      | 2      | 2      |
| SE Polk                      | 16                      | 22     | 29    | 37    | 20     | 12     | 13    | 93     | 103    | 81     | 72    | 34    | 15     | 7      | 2      | 3     | 0      | 0     | 1      | 1      | 1      |
| Urbandale                    | 13                      | 17     | 12    | 15    | 7      | 11     | 44    | 116    | 184    | 126    | 80    | 48    | 47     | 28     | 5      | 5     | 5      | 3     | 4      | 4      | 3      |
| Total School Cases           | 312                     | 309    | 320   | 447   | 326    | 273    | 438   | 1377   | 1729   | 2041   | 1105  | 847   | 345    | 188    | 82     | 45    | 23     | 21    | 23     | 54     | 60     |
| Polk Weekly Cases            | 1607                    | 1663   | 2173  | 1959  | 2075   | 2698   | 6250  | 10782  | 9848   | 7116   | 4045  | 2514  | 1469   | 919    | 439    | 250   | 162    | 145   | 141    | 114    | 163    |
| Polk County Weekly Case Rate | 3.28                    | 3.39   | 4.43  | 4.00  | 4.23   | 5.51   | 12.76 | 22.00  | 20.10  | 14.52  | 8.26  | 5.13  | 3.00   | 1.88   | 1.3    | 0.7   | 0.3    | 0.3   | 0.4    | 0.7    | 0.8    |



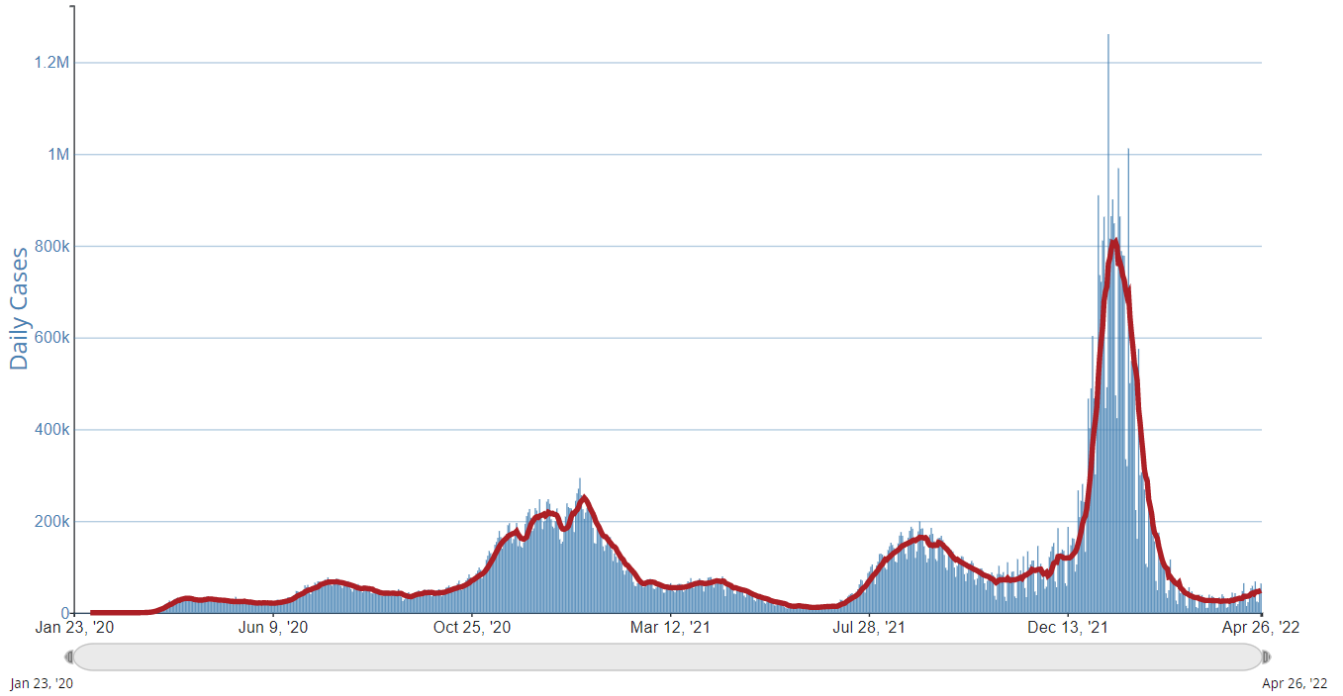
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Daily Trends in Number of COVID-19 Cases in The United States Reported to CDC



|                       | 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         | 53,432              | 16             | +59%             | 15,953                     | 5              | +7%              | 354.6                | 0.11           | 66%                 |
| American Samoa        | 70                  | 142            | -47%             | 8                          | 16             | -42%             | 0                    | —              | 84%                 |
| Puerto Rico ›         | 3,270               | 97             | +278%            | 195                        | 6              | +171%            | 1                    | 0.03           | 78%                 |
| Vermont ›             | 316                 | 51             | +51%             | 53                         | 9              | +67%             | 0.5                  | 0.08           | 81%                 |
| U.S. Virgin Islands › | 42                  | 39             | +164%            | 3                          | 3              | +17%             | 0                    | —              | 53%                 |
| Rhode Island ›        | 407                 | 38             | +20%             | 61                         | 6              | +19%             | 0.9                  | 0.08           | 82%                 |
| Massachusetts ›       | 2,374               | 34             | +36%             | 444                        | 6              | +52%             | 5.6                  | 0.08           | 79%                 |
| New York ›            | 6,532               | 34             | +24%             | 1,936                      | 10             | +38%             | 14.3                 | 0.07           | 77%                 |
| Hawaii ›              | 456                 | 32             | +146%            | 52                         | 4              | +39%             | 1.6                  | 0.11           | 78%                 |
| Alaska ›              | 212                 | 29             | +15%             | 24                         | 3              | -17%             | 0.4                  | 0.06           | 62%                 |
| New Jersey ›          | 2,430               | 27             | +31%             | 572                        | 6              | +30%             | 9                    | 0.1            | 76%                 |