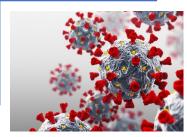


### "Strategic Advice in an Era of Unprecedented Change"









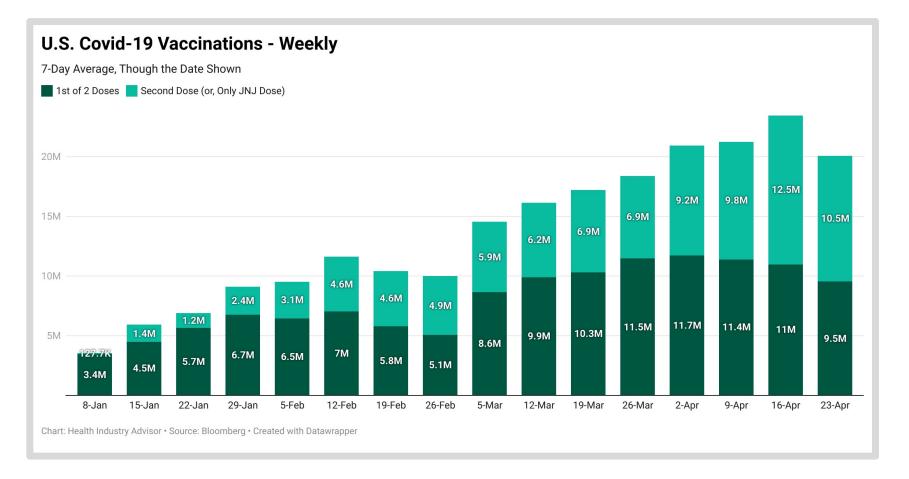
Covid-19 "Vital Signs"

Issue # 324 April 24, 2021



#### Vaccination Status - US

Fewer Americans sought a first dose vaccine last week than during each of the prior six weeks. Second doses (or, sole JNJ doses) dropped from last week. Total doses were the lowest in a month.

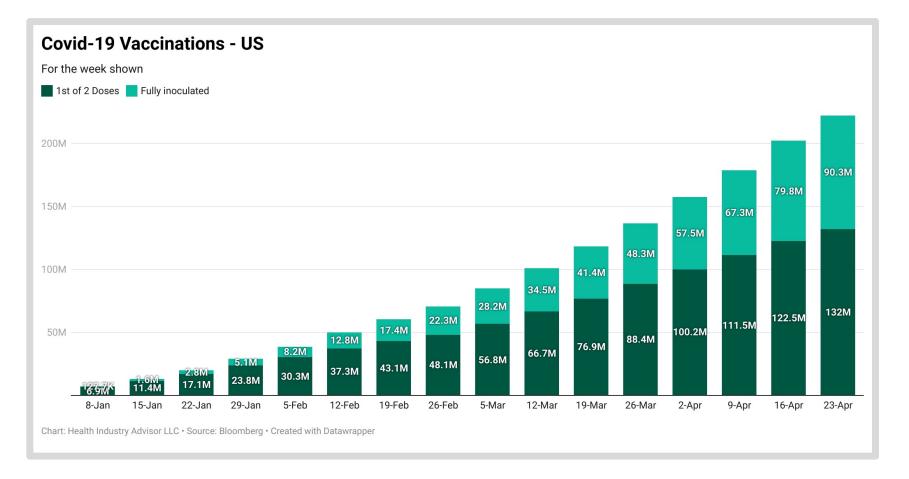






#### Vaccination Status - US

Vaccinations exceeded 222 million to-date. 52% of adults have received at least one dose and 35% are fully vaccinated. Among senior citizens, 80% have received at least one dose and nearly 67% are fully inoculated.

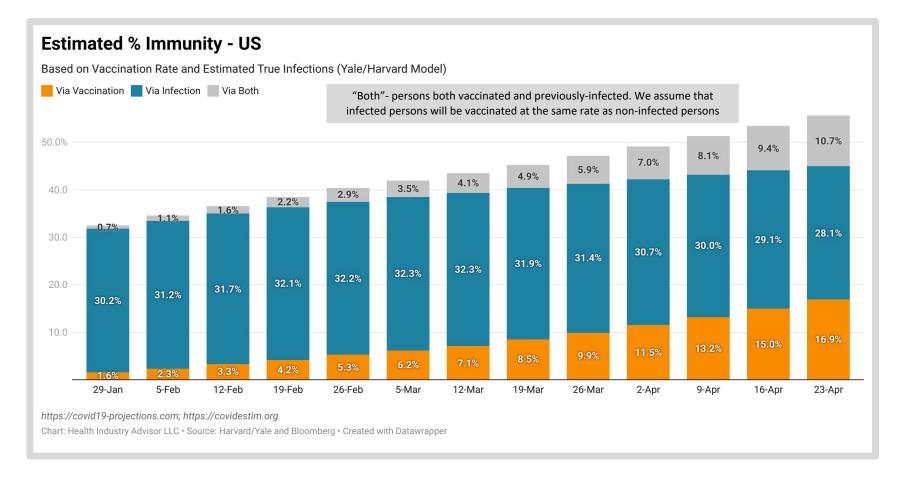






## **Estimated Immunity Status - US**

Estimated immunity reached 56% of the US population, still mostly coming from a prior infection.

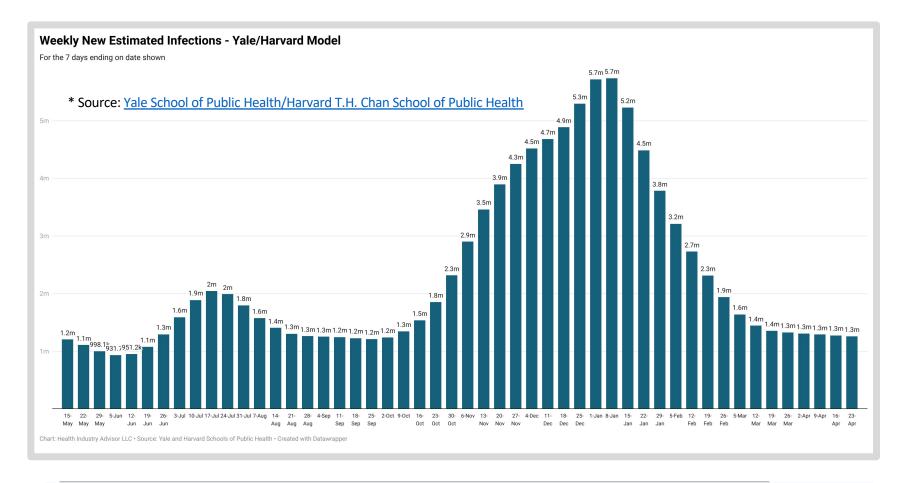






# Estimated Actual Infections – Yale/Harvard Model

Estimated infections declined slightly last week. This latest estimate suggests that there may not have been a true fourth infection wave.

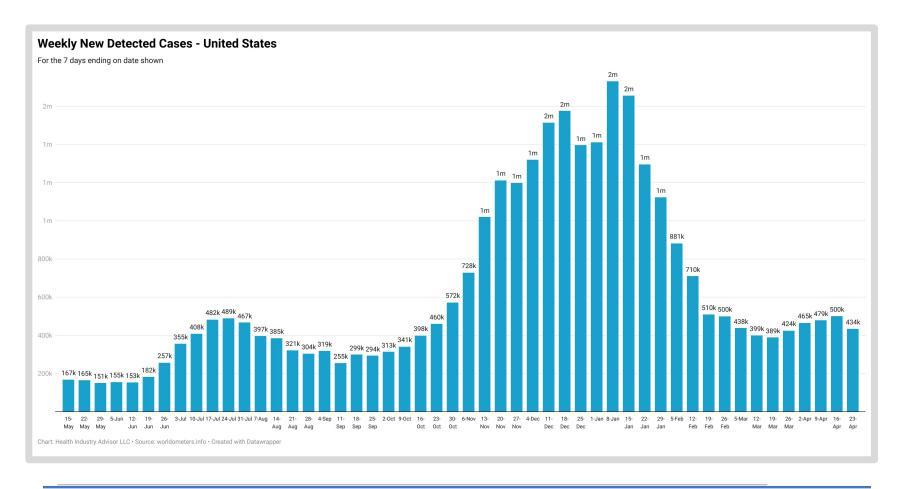






## **Newly Detected Cases**

New cases last week, reversing a four-week trend of increasing cases.

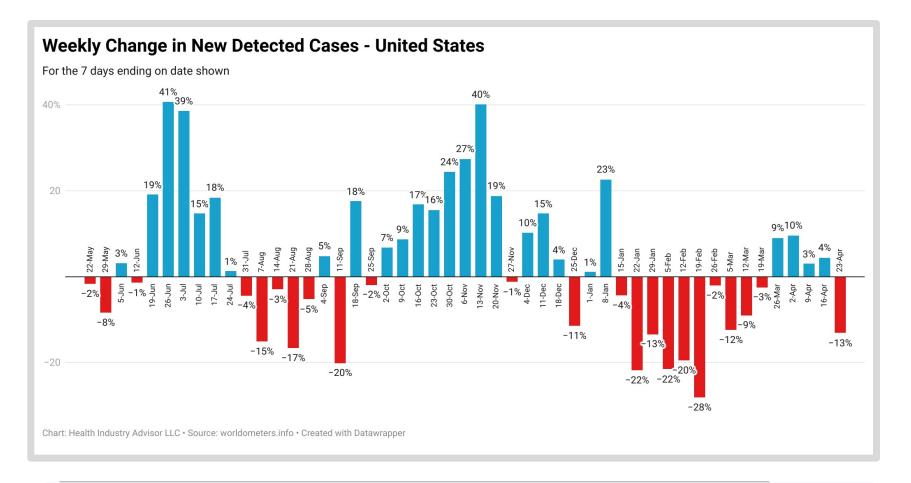






## Weekly Change in Newly Detected Cases

The number of new cases fell sharply from last week.

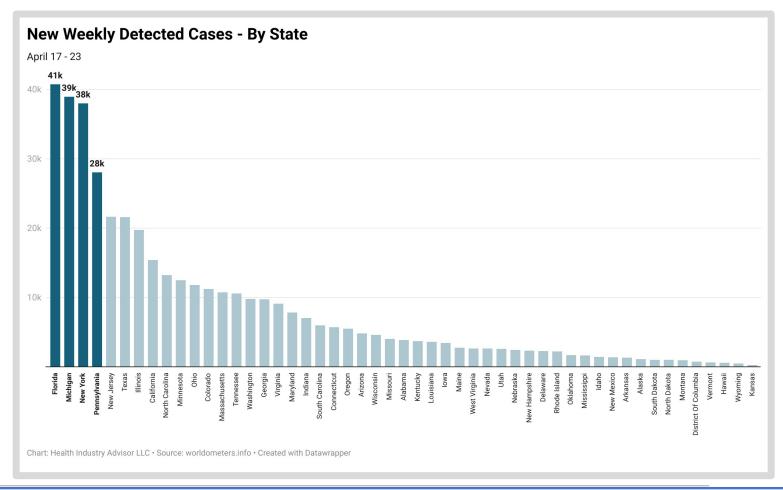






# Newly Detected Cases - By State

More than one third of all new cases in the past week were detected in just four states: Florida, Michigan, New York, and Pennsylvania.

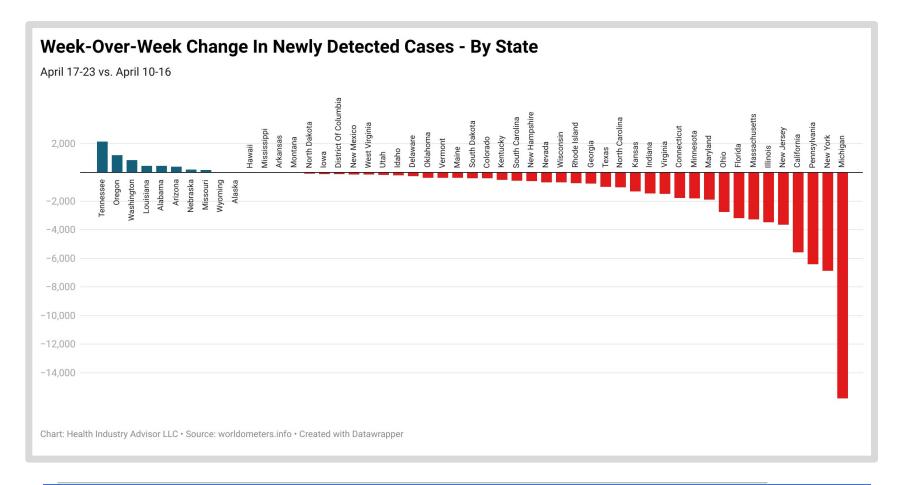






# Week-Over-Week Change in Newly Detected Cases

Michigan saw nearly 16,000 fewer new cases this week than last. Indeed, most states experienced declining new cases week-over-week.

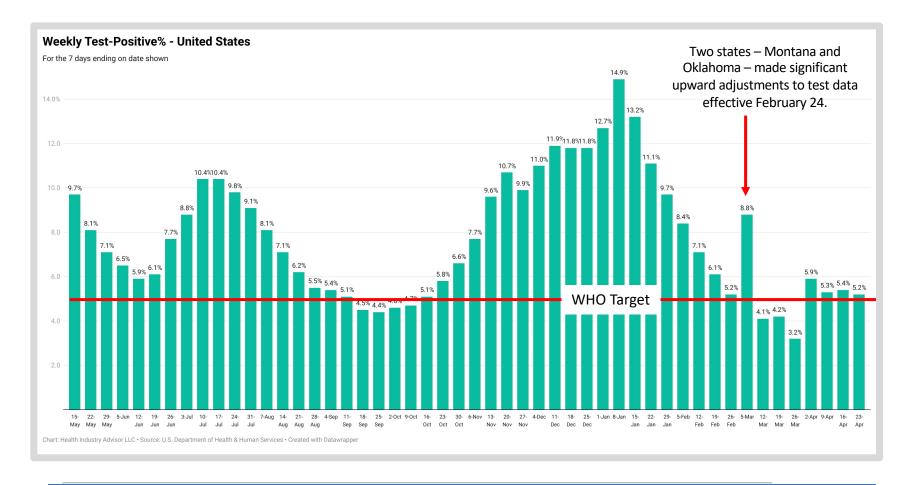






## Covid-19 Testing

Test-positivity declined week-over week but remains slightly above the WHO recommended target. Nonetheless, this rate remains lower than most weeks during the pandemic, especially periods of earlier surges..

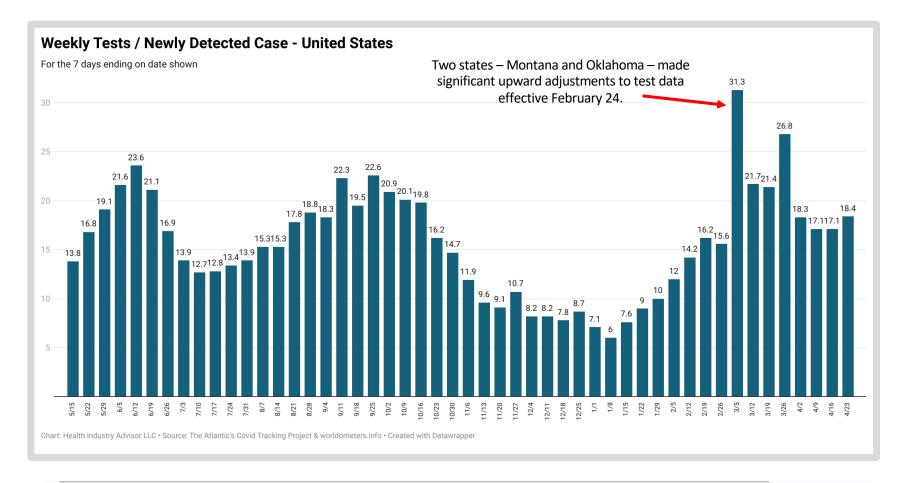




Covid-19 "Vital Signs"

# Test Efficiency: Tests Per Case Detected

*Test efficiency improved week-over-week.* 

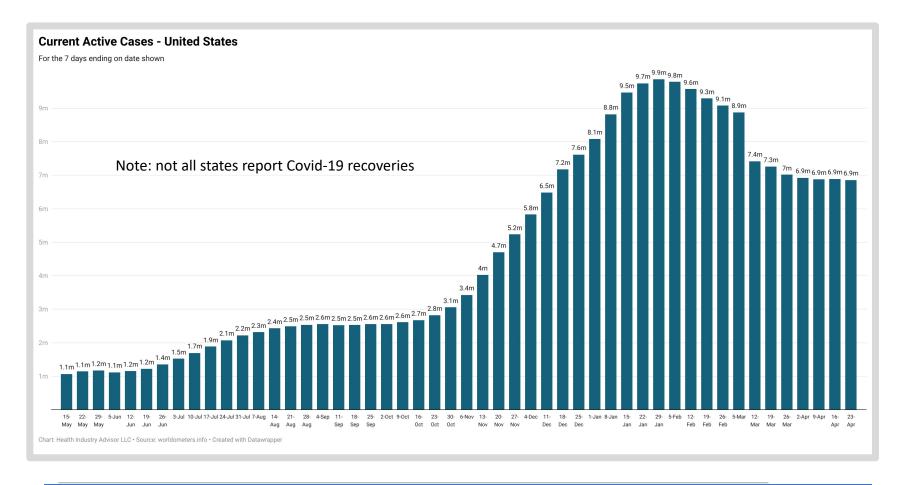






### **Active Cases**

The number of Active Cases declined slightly last week.

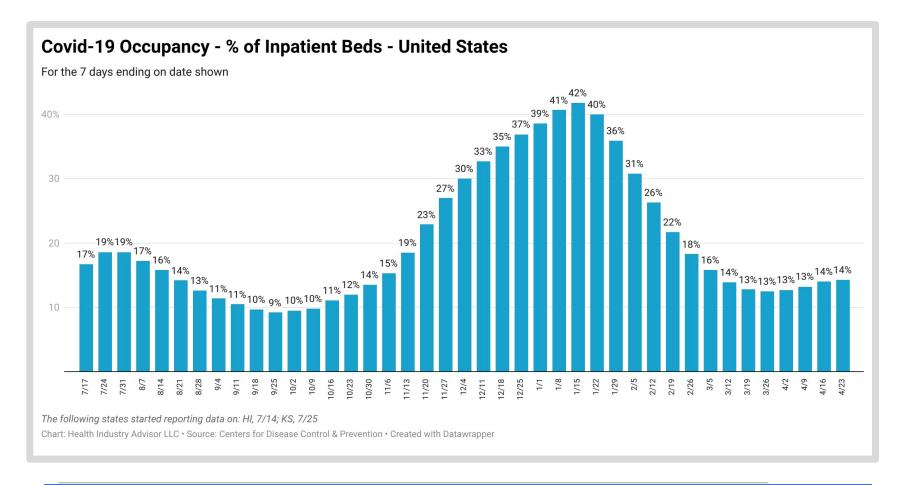






# Covid-19 Hospital Occupancy

Covid-19 occupancy inched higher last week yet remains about where it has been for the last seven weeks. The current Covid-19 census is one third of where it was at peak.

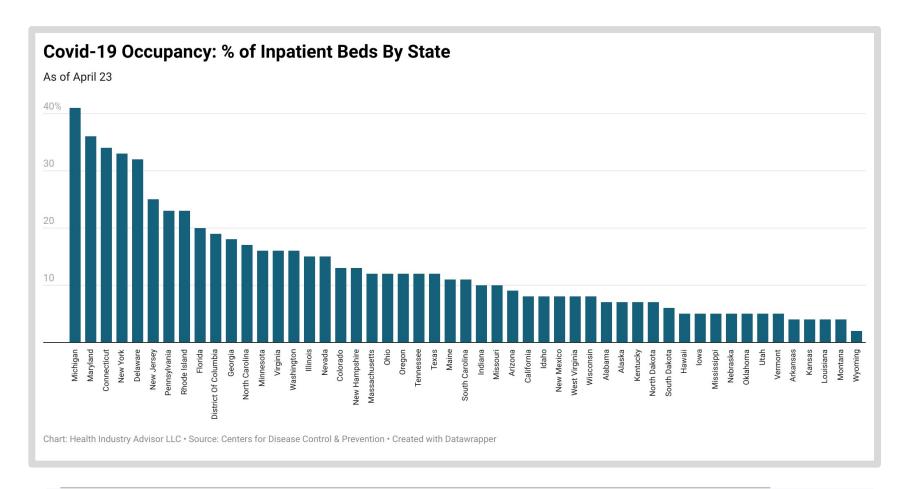






# Covid-19 Hospital Occupancy

Michigan is the only state where Covid-19 patients occupy four of every ten inpatient beds. In Connecticut, Delaware, Maryland and New York, Covid-19 patients occupy more than three of every ten beds.

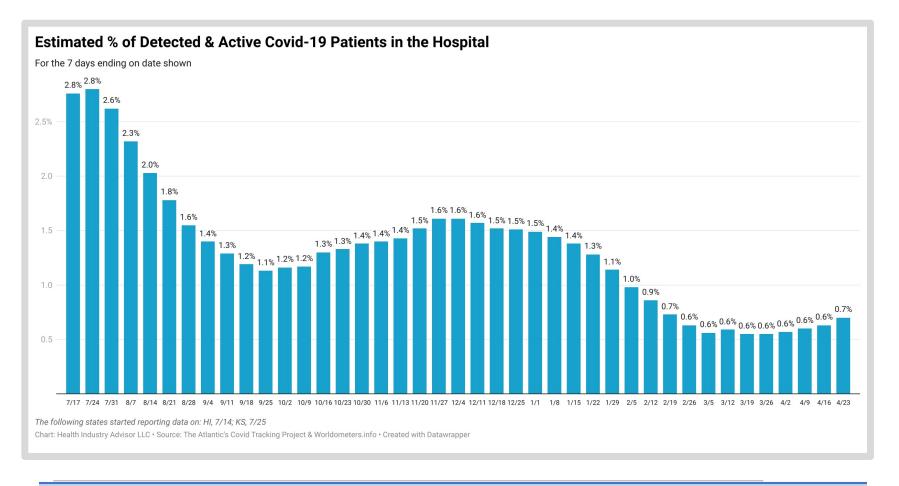






## Hospitalized Covid-19 Patients / Active Cases

Active Covid-19 cases requiring hospital care remains substantially lower than earlier in the pandemic.

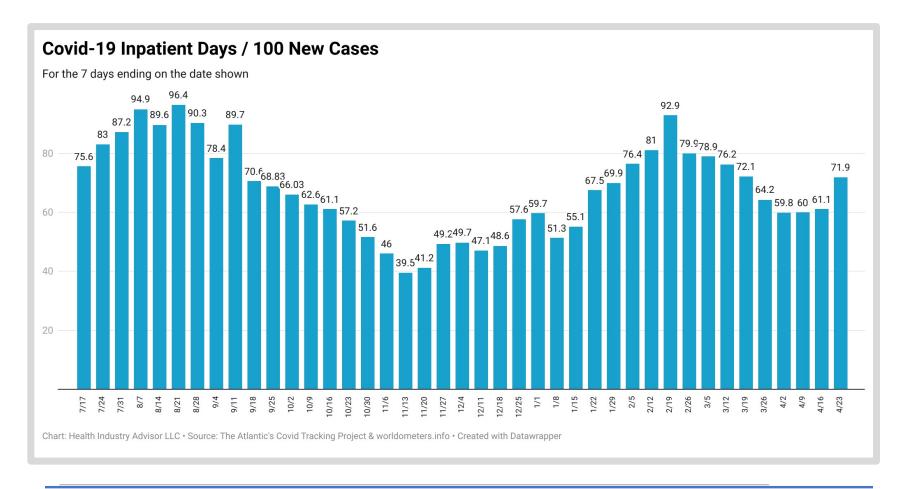






# Covid-19 Patient Days / 100 New Cases

Hospitalization rates jumped week-over-week, likely due to patient stays from earlier infections and declining new cases.

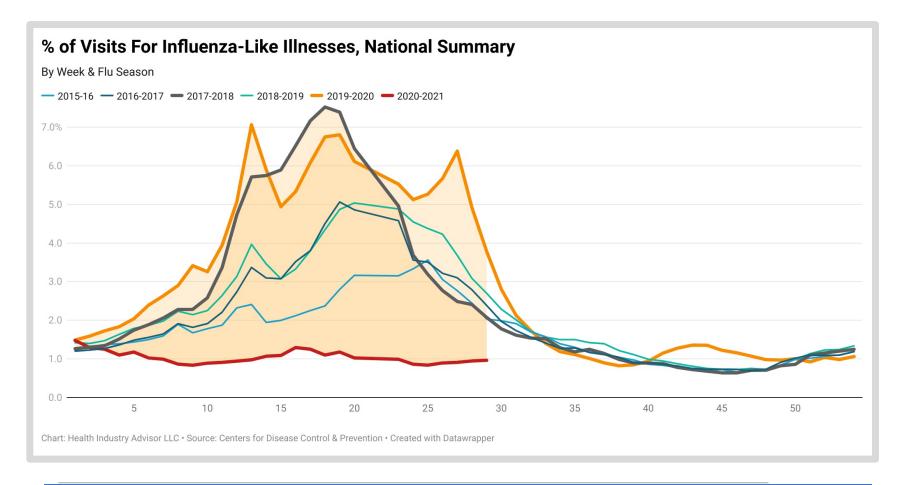






# % of Visits Relating to Influenza

The United States avoided the typical flu season this year.

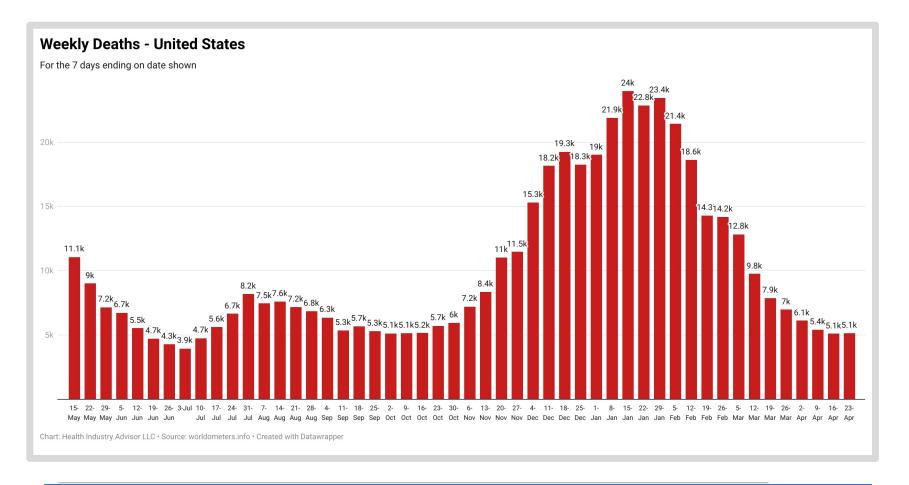






### **Deaths With Coronavirus**

Deaths with coronavirus increased slightly this week. Still, the death rate is as low as it has been since mid-July.







## Sources

The following data sources are accessed on a daily or weekly basis

- U.S. Department of Health & Human Services: <a href="https://healthdata.gov/dataset/covid-19-estimated-patient-impact-and-hospital-capacity-state">https://healthdata.gov/dataset/covid-19-estimated-patient-impact-and-hospital-capacity-state</a>
- U.S. Department of Health & Human Services https://beta.healthdata.gov/dataset/COVID-19-Diagnostic-Laboratory-Testing-PCR-Testing/j8mb-icvb
- Worldometers.info: https://www.worldometers.info/coronavirus/
- Centers for Disease Control and Prevention, National, Regional, and State Level Outpatient Illness and Viral Surveillance <a href="https://gis.cdc.gov/grasp/fluview/fluportaldashboard.html">https://gis.cdc.gov/grasp/fluview/fluportaldashboard.html</a>
- Centers for Disease Control and Prevention, COVID-19 Laboratory-Confirmed Hospitalizations https://gis.cdc.gov/grasp/COVIDNet/COVID19 5.html
- Centers for Disease Control and Prevention, COVID Data Tracker https://www.cdc.gov/covid-data-tracker/index.html#mobility
- Centers for Disease Control and Prevention, Vaccines, <a href="https://www.cdc.gov/coronavirus/2019-ncov/vaccines/index.html">https://www.cdc.gov/coronavirus/2019-ncov/vaccines/index.html</a>
- Institute for Health Metrics and Evaluation, COVID-19 estimate downloads <a href="http://www.healthdata.org/covid/data-downloads">http://www.healthdata.org/covid/data-downloads</a>
- New York Times, Covid-19 data <a href="https://github.com/nytimes/covid-19-data">https://github.com/nytimes/covid-19-data</a>
- COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University <a href="https://github.com/CSSEGISandData/COVID-19">https://github.com/CSSEGISandData/COVID-19</a>
- COVID-19 Projections Using Machine Learning, <a href="https://covid19-projections.com">https://covid19-projections.com</a>
- Our World In Data, <a href="https://ourworldindata.org/covid-vaccinations">https://ourworldindata.org/covid-vaccinations</a>
- Covid-19 Forecast Hub, <a href="https://viz.covid19forecasthub.org">https://viz.covid19forecasthub.org</a>
- Yale School of Public Health & Harvard TH Chan School of Public Health, https://covidestim.org
- Bloomberg Vaccine Trackers, https://www.bloomberg.com/graphics/covid-vaccine-tracker-global-distribution/?sref=Z0b6TmH

