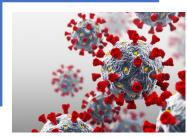


"Strategic Advice in an Era of Unprecedented Change"









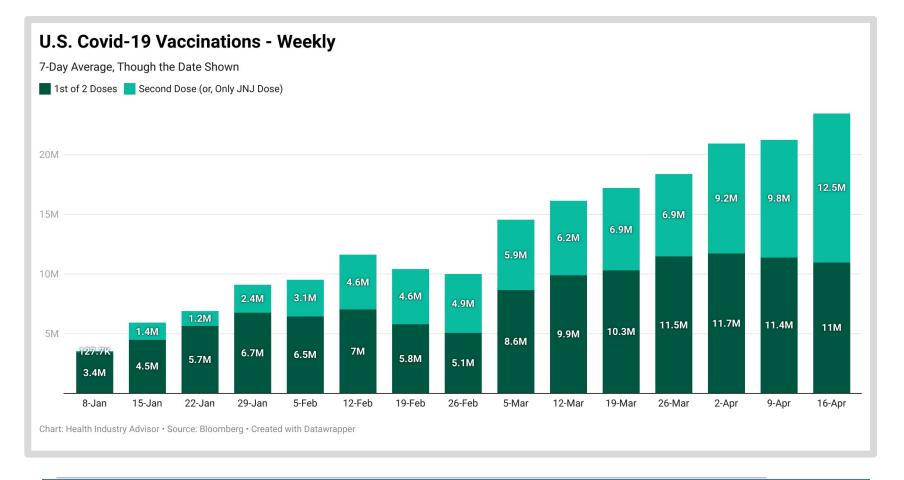
Covid-19 "Vital Signs"

Issue # 320 April 17, 2021



Vaccination Status - US

More than 3.3 million Americans were vaccinated per day over the past week, a 10% increase over last week. For the first time, there were more second doses (or, lone JNJ doses) than first Moderna or Pfizer doses.

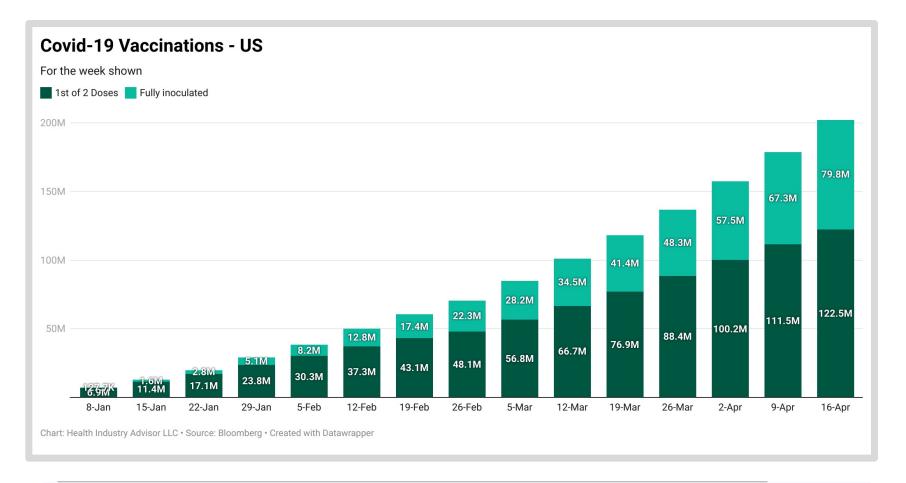






Vaccination Status - US

Vaccinations exceeded 202 million to-date. 48% of adults have received at least one dose and 31.3% are fully vaccinated. Among senior citizens, 80% have received at least one dose and nearly 65% are fully inoculated.

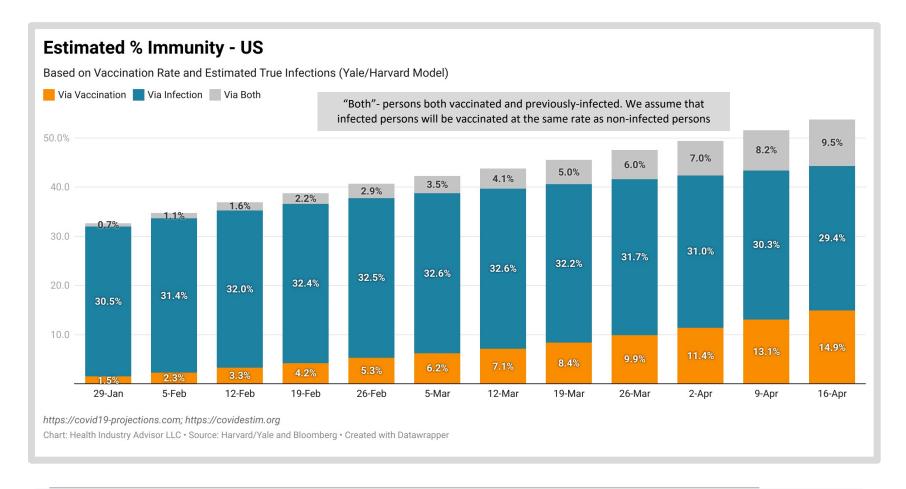






Estimated Immunity Status - US

Estimated immunity reached 54% of the US population, still mostly coming from a prior infection.

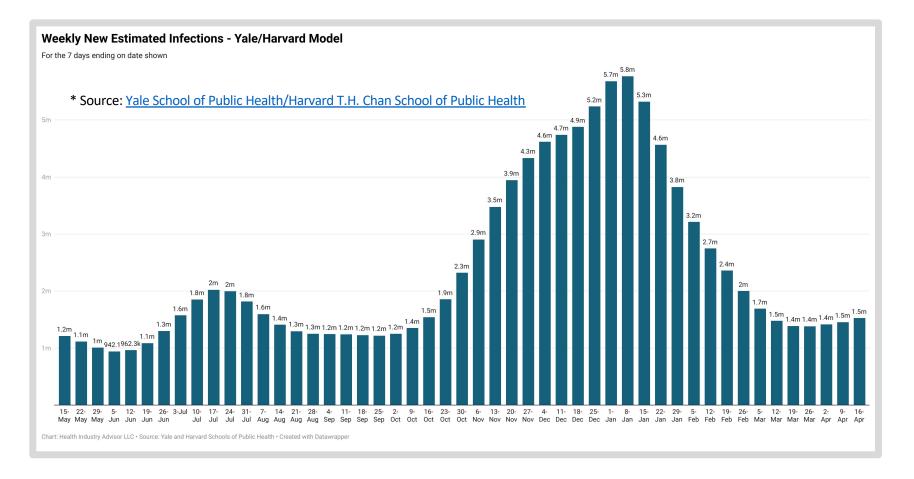






Estimated Actual Infections – Yale/Harvard Model

Estimated infections increased slightly for the third consecutive week yet remain lower than any week from late April through early March.

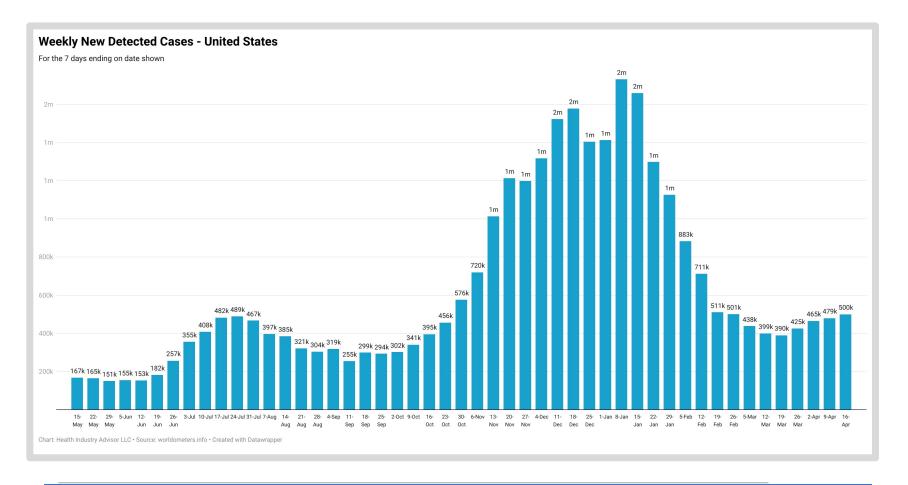






Newly Detected Cases

New cases increased week-over-week for the fourth straight week yet were lower than any week from late October through the end of February.

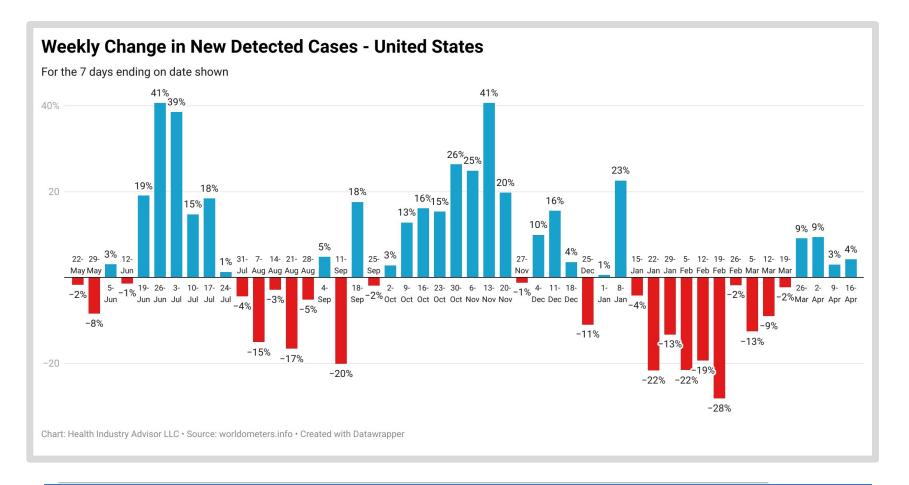






Weekly Change in Newly Detected Cases

The rate of increase in new cases remained low compared previous surges

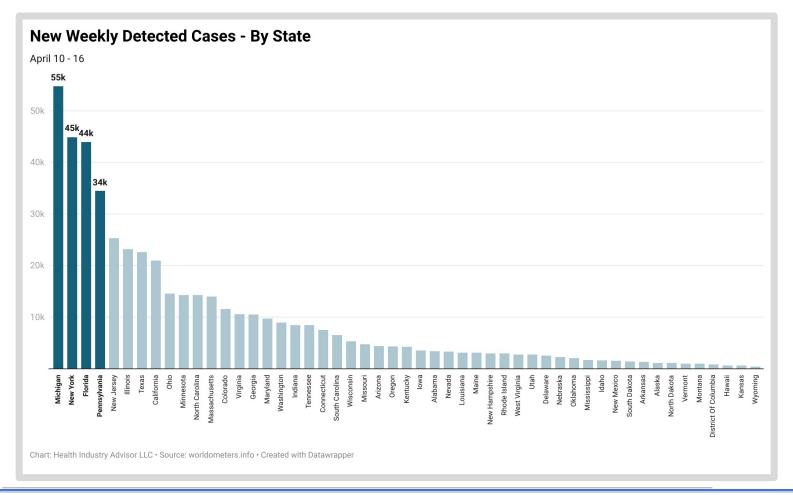






Newly Detected Cases - By State

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

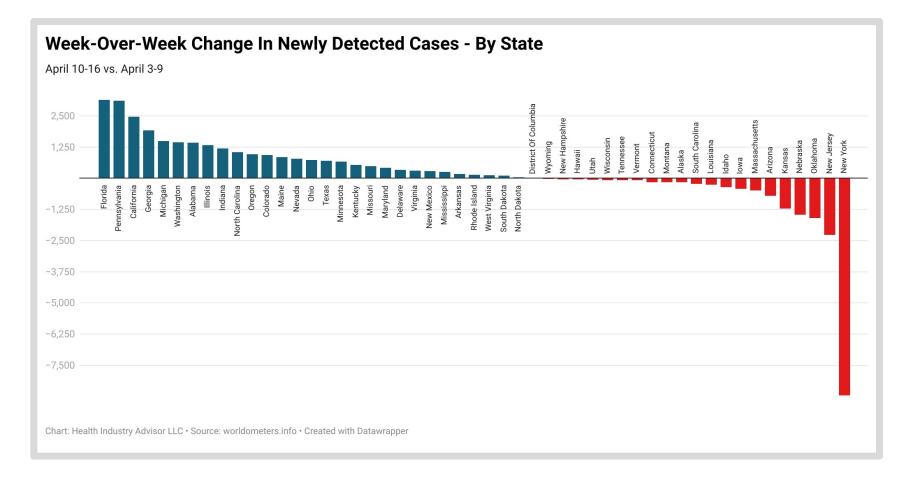






Week-Over-Week Change in Newly Detected Cases

Michigan saw "only" 1,500 more new cases this week than last week. In each of the prior three weeks, Michigan saw new cases rise by at least 10,000. Also, New York experienced a significant decline in new cases week-over-week.

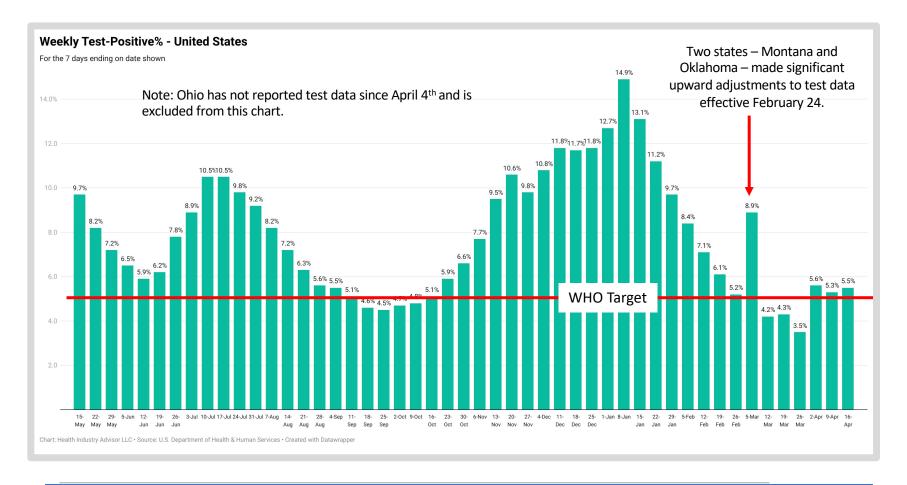






Covid-19 Testing

Test-positivity increased over recent weeks and is slightly above the WHO recommended target. Nonetheless, this rate remains lower than most weeks during the pandemic, especially periods of earlier surges..

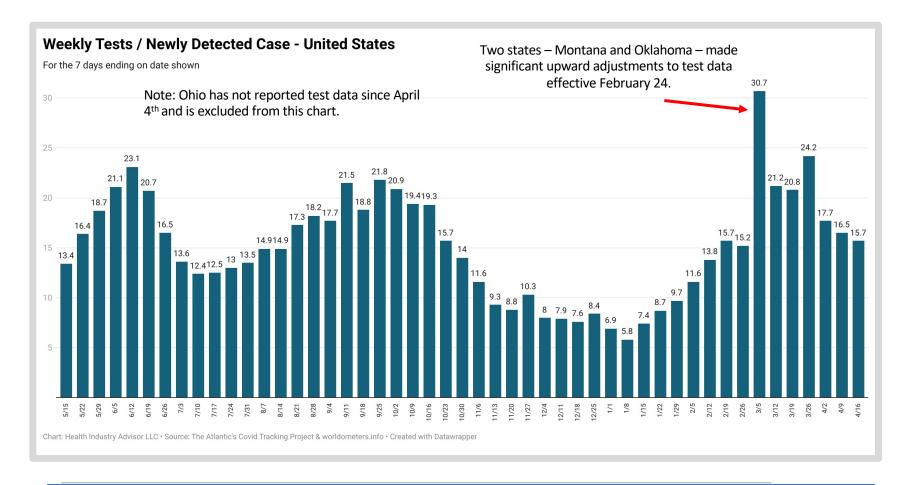




Covid-19 "Vital Signs"

Test Efficiency: Tests Per Case Detected

Test efficiency declined for the fifth straight week yet remains better than posted from late-October through much of February.

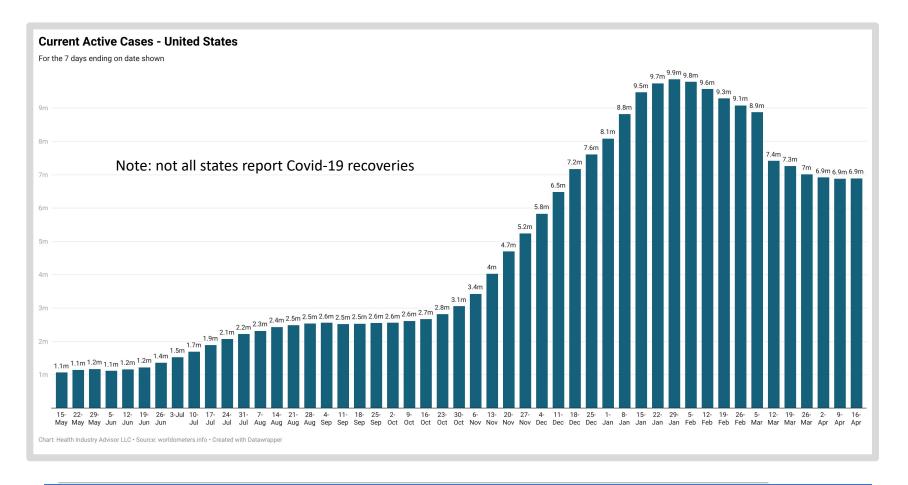






Active Cases

The number of Active Cases increased slightly last week, after declining ten straight weeks.

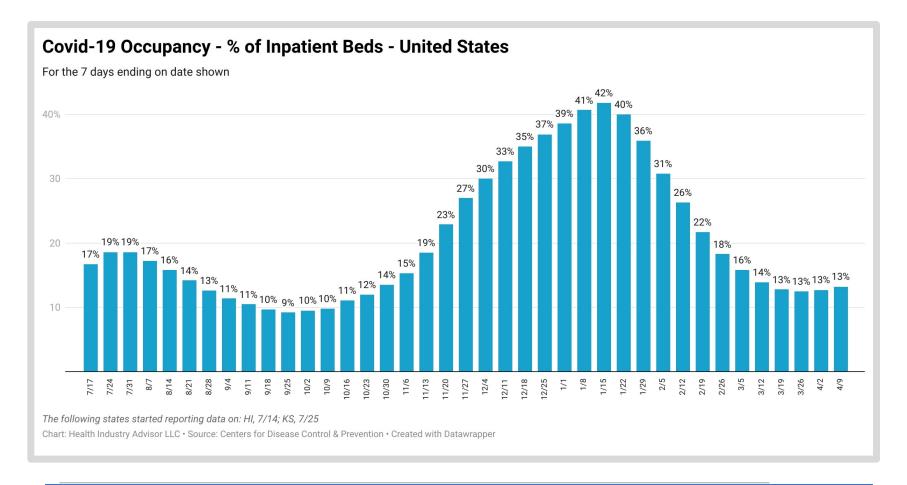






Covid-19 Hospital Occupancy

Covid-19 occupancy inched higher last week yet remains about where it has been for a month. The current Covid-19 census is less than one third of where it was at peak

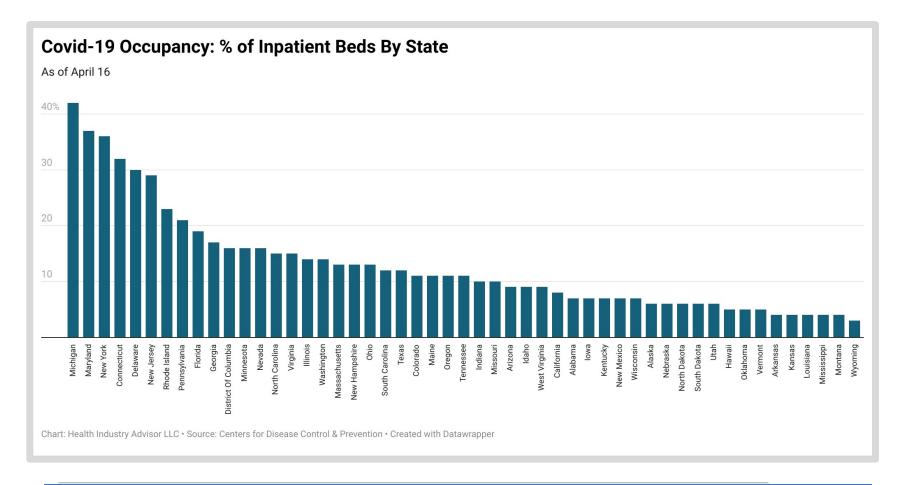






Covid-19 Hospital Occupancy

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

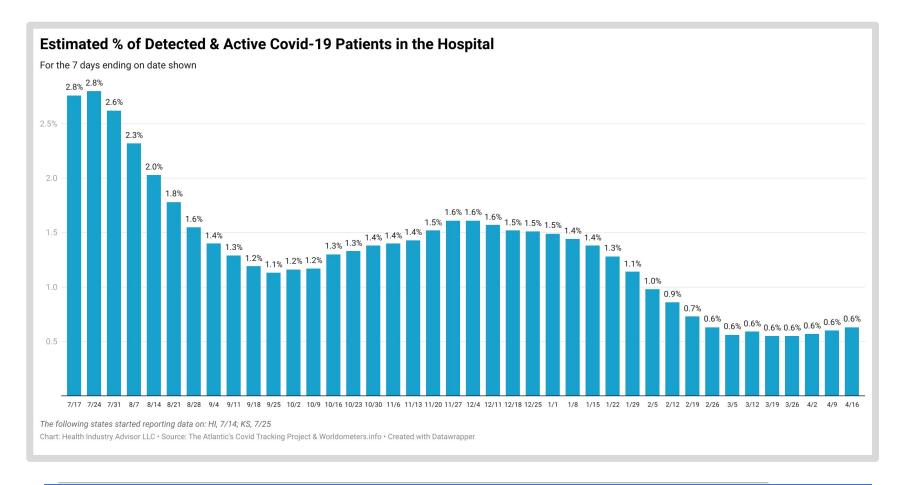






Hospitalized Covid-19 Patients / Active Cases

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

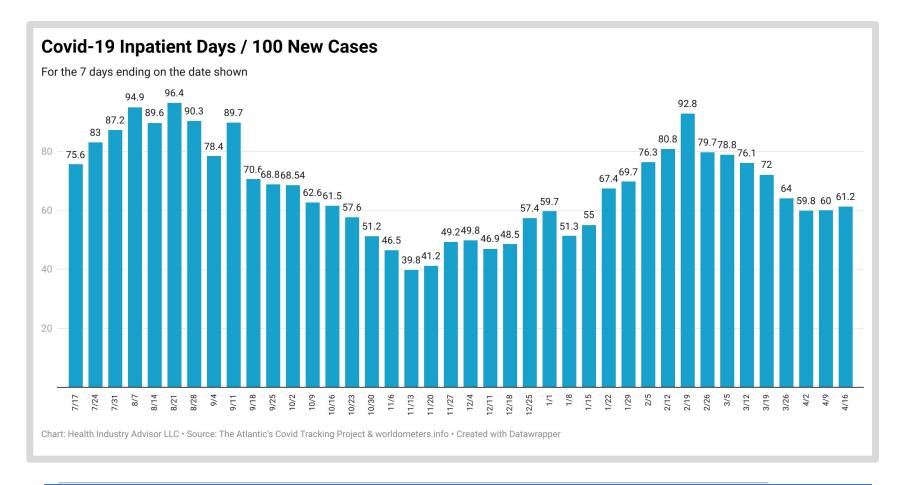






Covid-19 Patient Days / 100 New Cases

Hospitalization rates have moved in lockstep with the rise in new cases in the past several weeks.

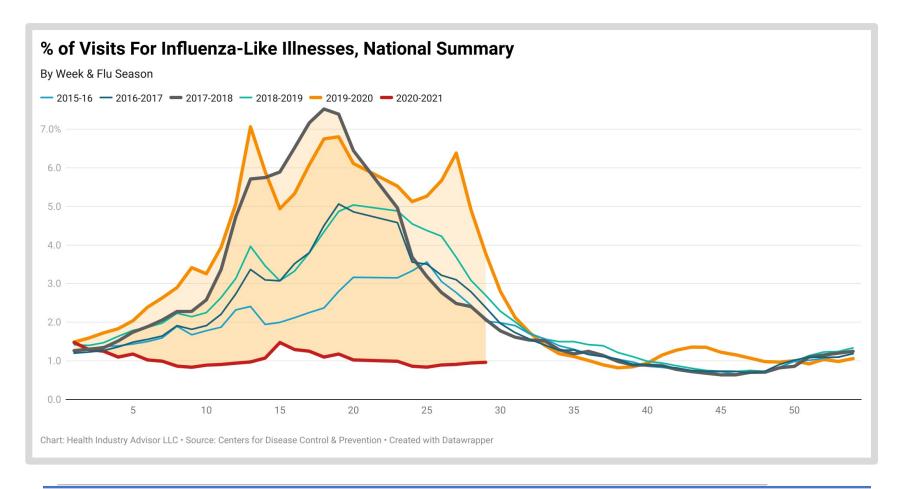






% of Visits Relating to Influenza

The United States avoided the typical flu season this year.

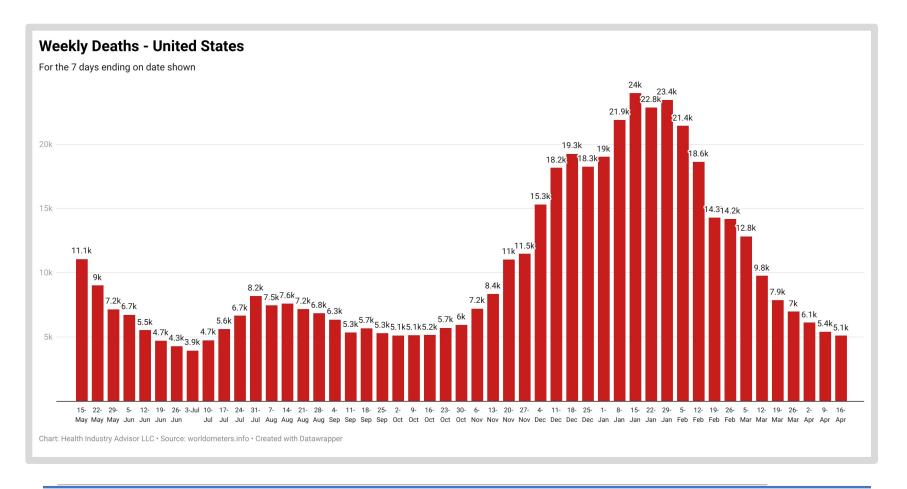






Deaths With Coronavirus

Deaths with coronavirus this week dropped to 5,100 this week. The U.S. has not experienced fewer Covid-19 deaths since mid-July.







Sources

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

- U.S. Department of Health & Human Services: https://healthdata.gov/dataset/covid-19-estimated-patient-impact-and-hospital-capacity-state
- 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 https://gis.cdc.gov/grasp/fluview/fluportaldashboard.html
- 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, https://www.cdc.gov/coronavirus/2019-ncov/vaccines/index.html
- Institute for Health Metrics and Evaluation, COVID-19 estimate downloads http://www.healthdata.org/covid/data-downloads
- New York Times, Covid-19 data https://github.com/nytimes/covid-19-data
- COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University https://github.com/CSSEGISandData/COVID-19
- COVID-19 Projections Using Machine Learning, https://covid19-projections.com
- Our World In Data, https://ourworldindata.org/covid-vaccinations
- Covid-19 Forecast Hub, https://viz.covid19forecasthub.org
- 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

