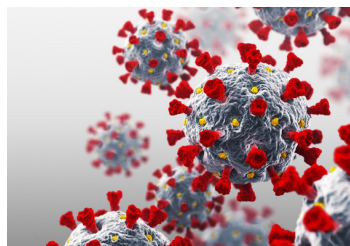


Covid-19 "Vital Signs"

Issue # 329

May 5, 2021



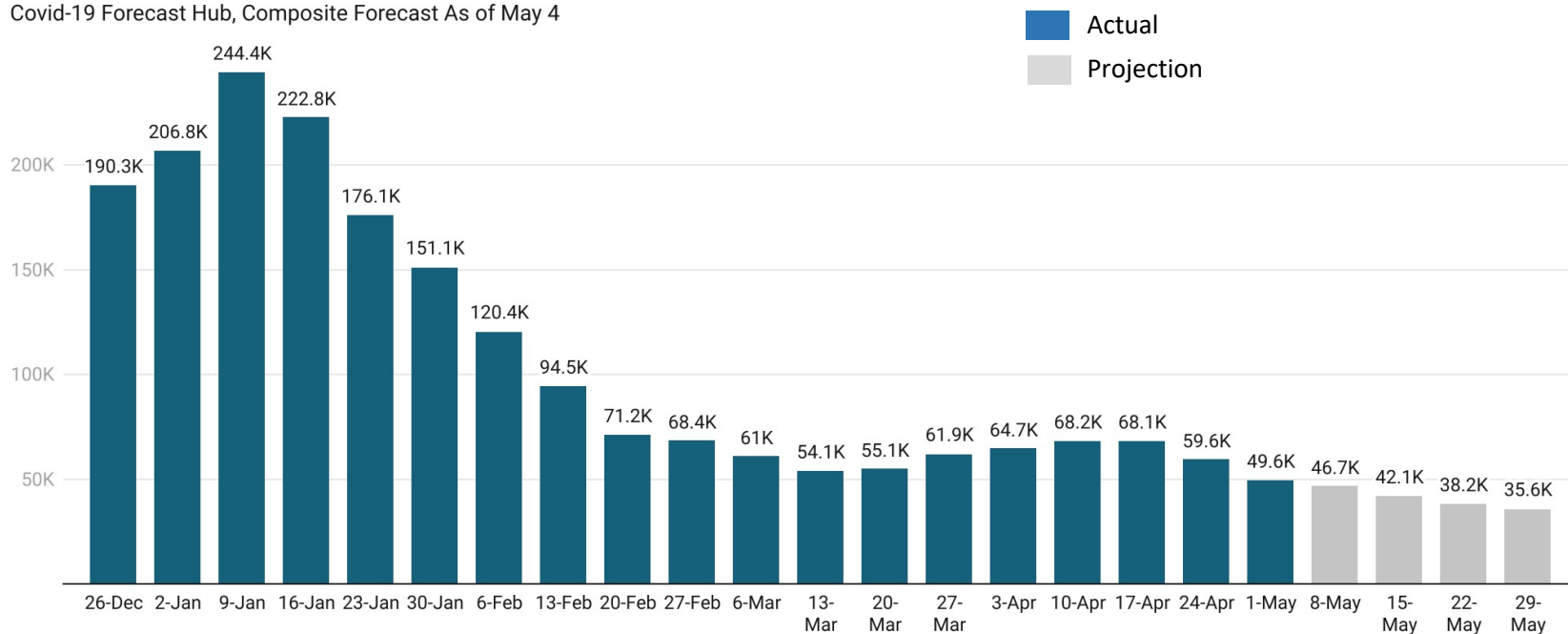
Covid-19 "Vital Signs"

Covid-19 Cases: Ensemble Forecast

The most recent ensemble forecast projects that new daily cases decline each of the next four weeks. By the end of May, there may be fewer new cases than any time in eleven months.

Newly-Detected Cases Per Day

Covid-19 Forecast Hub, Composite Forecast As of May 4



For the week ending on the date shown

Chart: Health Industry Advisor LLC • Source: Covid-19 Forecast Hub • Created with Datawrapper

<https://viz.covid19forecasthub.org>

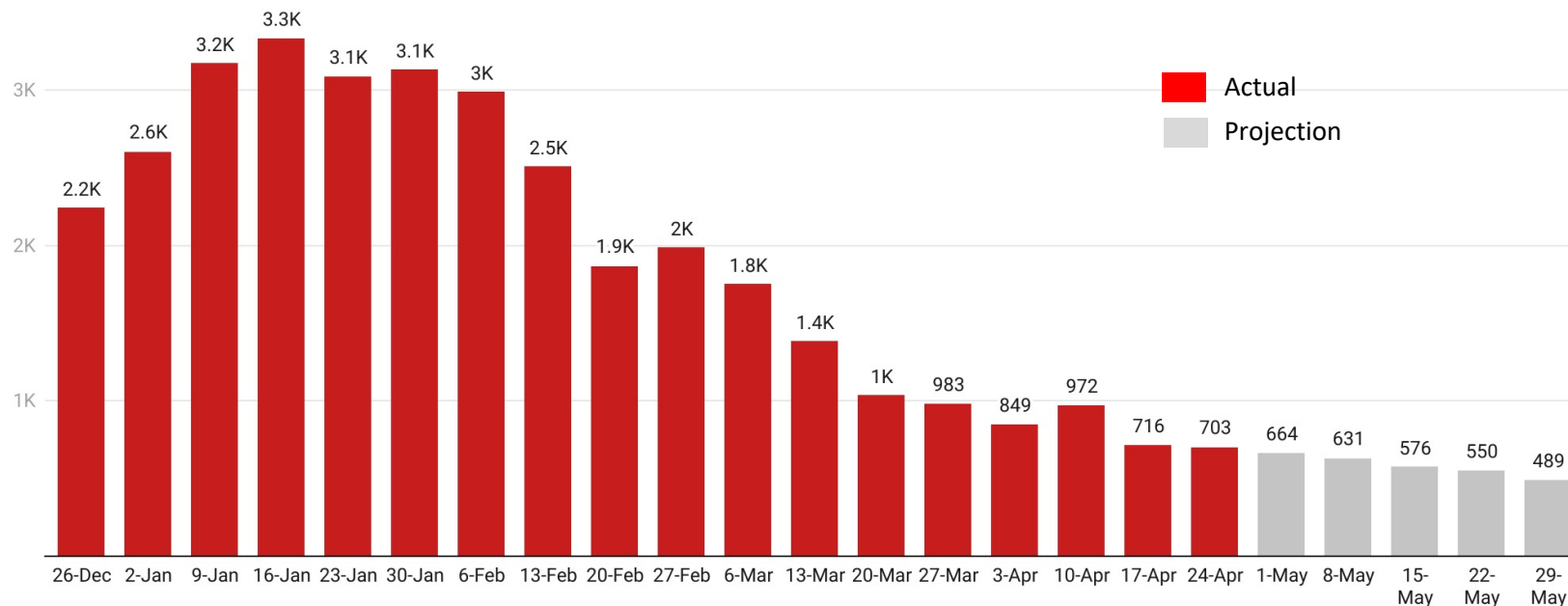
Covid-19 "Vital Signs"

Death Projections – Ensemble Forecast

The most recent ensemble forecast projects that deaths decline each of the next four weeks. By the end of May, there may be fewer weekly deaths than any time in thirteen months.

Newly-Reported Deaths Per Day

Covid-19 Forecast Hub, Composite Forecast As of April 27



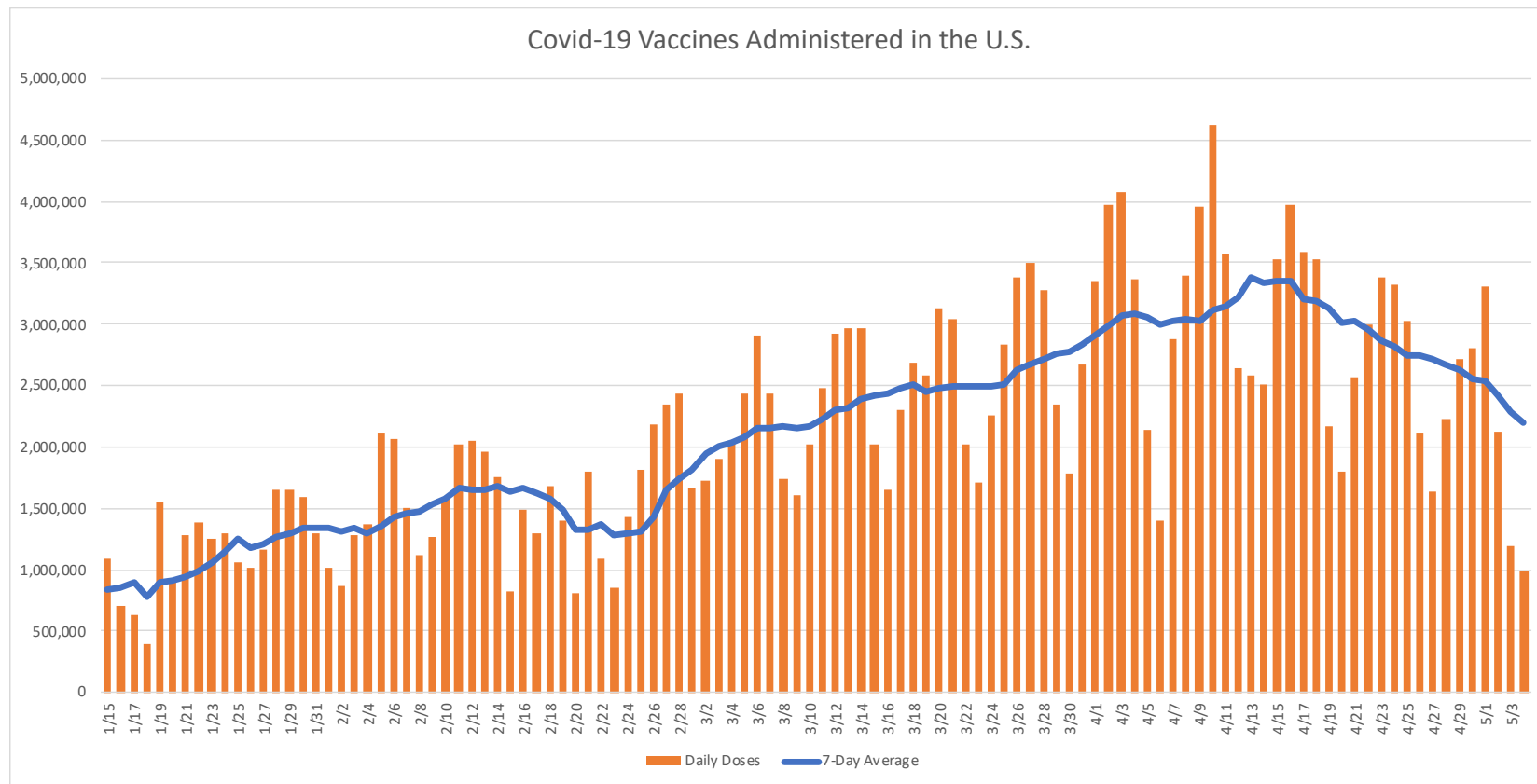
For the week ending on the date shown

Chart: Health Industry Advisor LLC • Source: Covid-19 Forecast Hub • Created with Datawrapper

<https://viz.covid19forecasthub.org>

Pace of Vaccinations

Vaccinations continue to decline in the United States. Fewer than 1 million vaccines were administered on Monday, the fewest since February 23.



Covid-19 "Vital Signs"

Vaccine Tracking

To date, the US has distributed 318 million doses and administered 248 million. 105 million people are fully inoculated – 41.2% of the adult population. Another 38 million people have received the first of two required doses.

Vaccination Progress

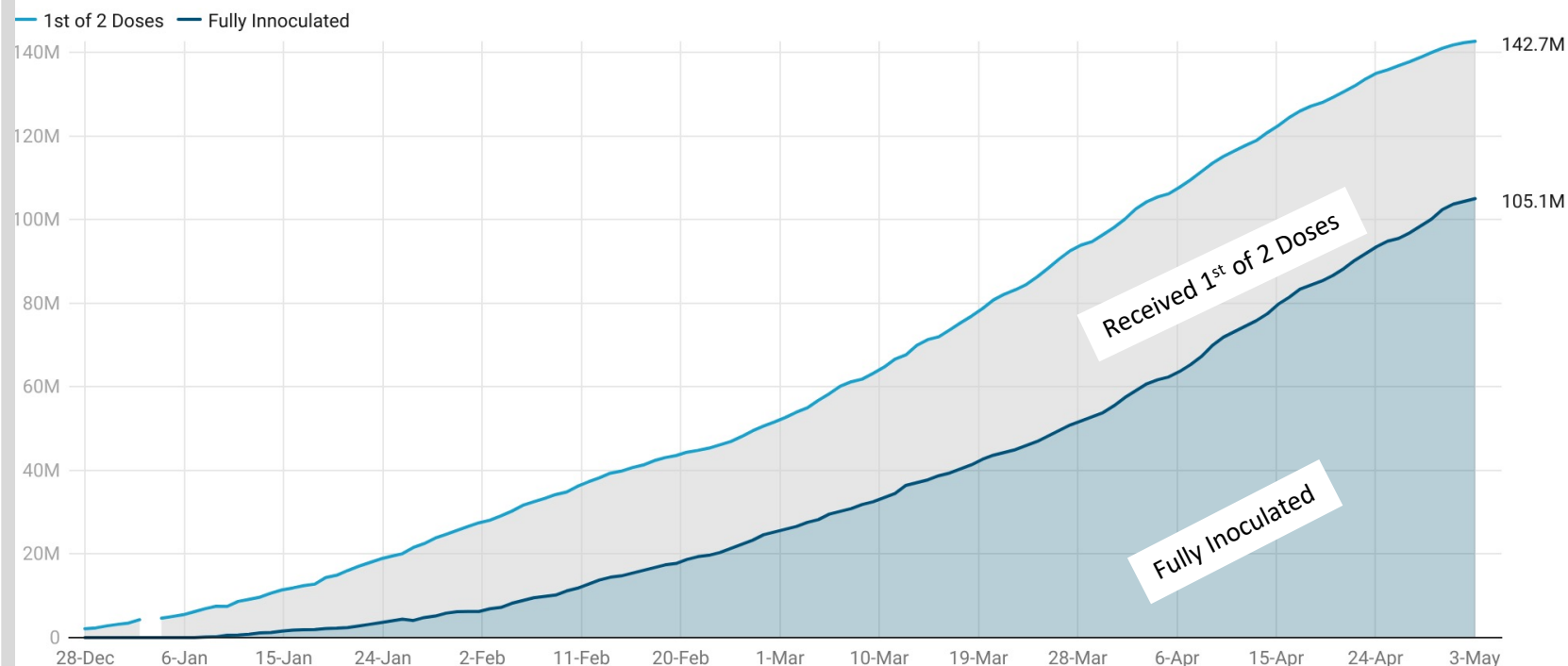


Chart: Health Industry Advisor LLC • Source: CDC, Bloomberg • Created with Datawrapper

Vaccine data from: [Centers for Disease Control and Prevention](#) and [Bloomberg Vaccine Tracker](#)

Vaccination Status By Age

83% of seniors are participating in the vaccination process; 70% are fully vaccinated. Nearly half of younger adults have received at least one shot; one-third are fully vaccinated..

Vaccination Status By Age

As of May 4

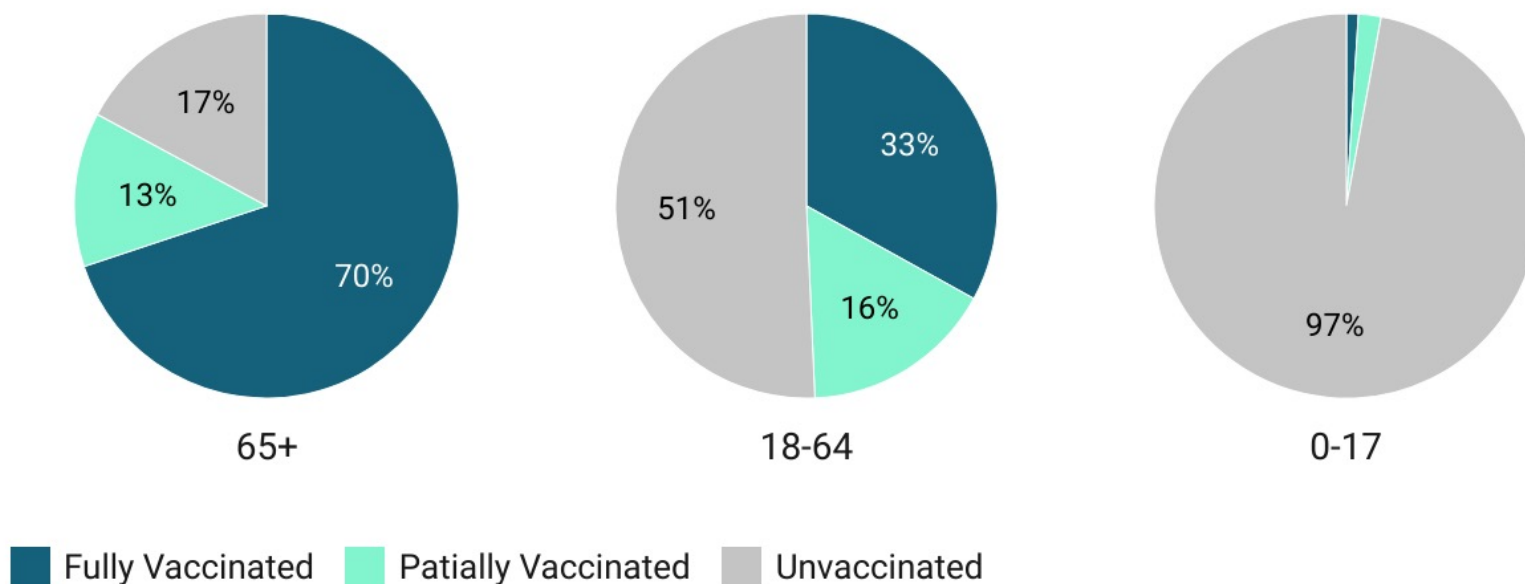


Chart: Health Industry Advisor LLC • Source: CDC • Created with Datawrapper

Covid-19 "Vital Signs"

Newly Detected Cases / Million - US

The U.S. 7-day new case rate declined for the twentieth straight day, dropping below 150 per million. This rate is lower than it has been since October 12.

Newly-Detected Cases / Million

7-Day Average

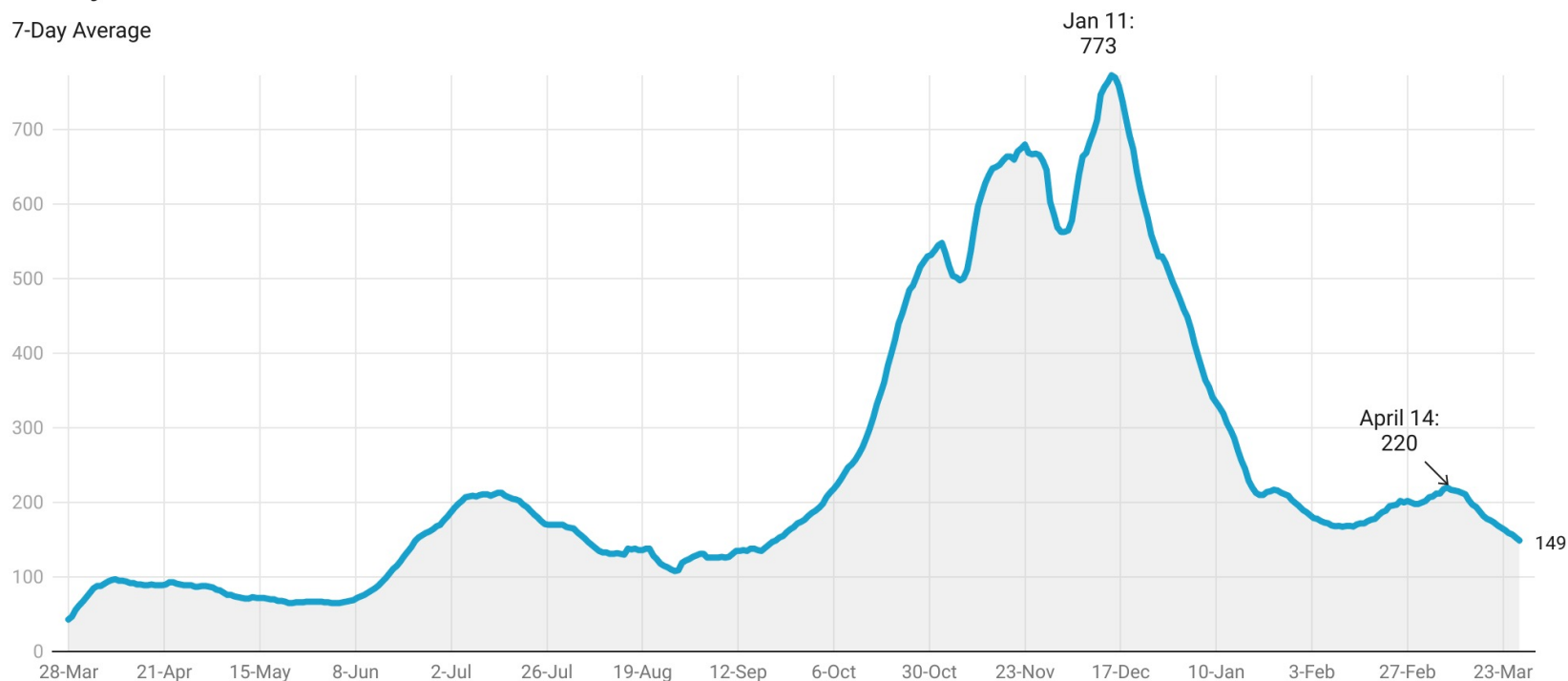


Chart: Health Industry Advisor LLC • Created with Datawrapper

Covid-19 "Vital Signs"

Newly Detected Cases / Million - % Highest State Rates

The U.S. 7-day new case rate is declining in each of the states with the highest current rates in the U.S. Michigan, with the highest current rate, has seen its rate cut in half in the past 18 days.

States With Highest New Cases/Million

7-Day Average

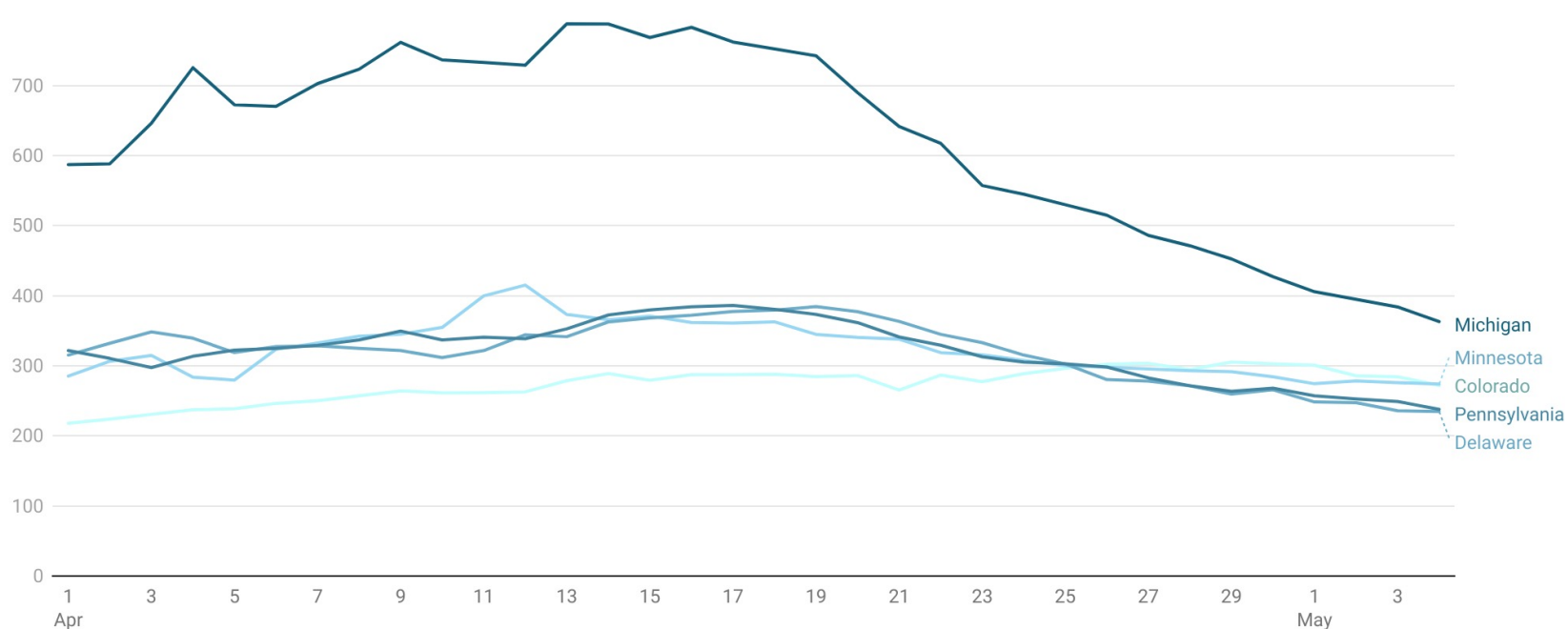


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Covid-19 "Vital Signs"

Estimated Daily Infections & New Case Rates

Estimated infections have dropped to the lowest level since last March when the pandemic had just begun. Detected cases have dropped to levels seen briefly in September and October.

Estimated Daily Infections v. Detected Cases

Yale/Harvard Schools of Public Health Model

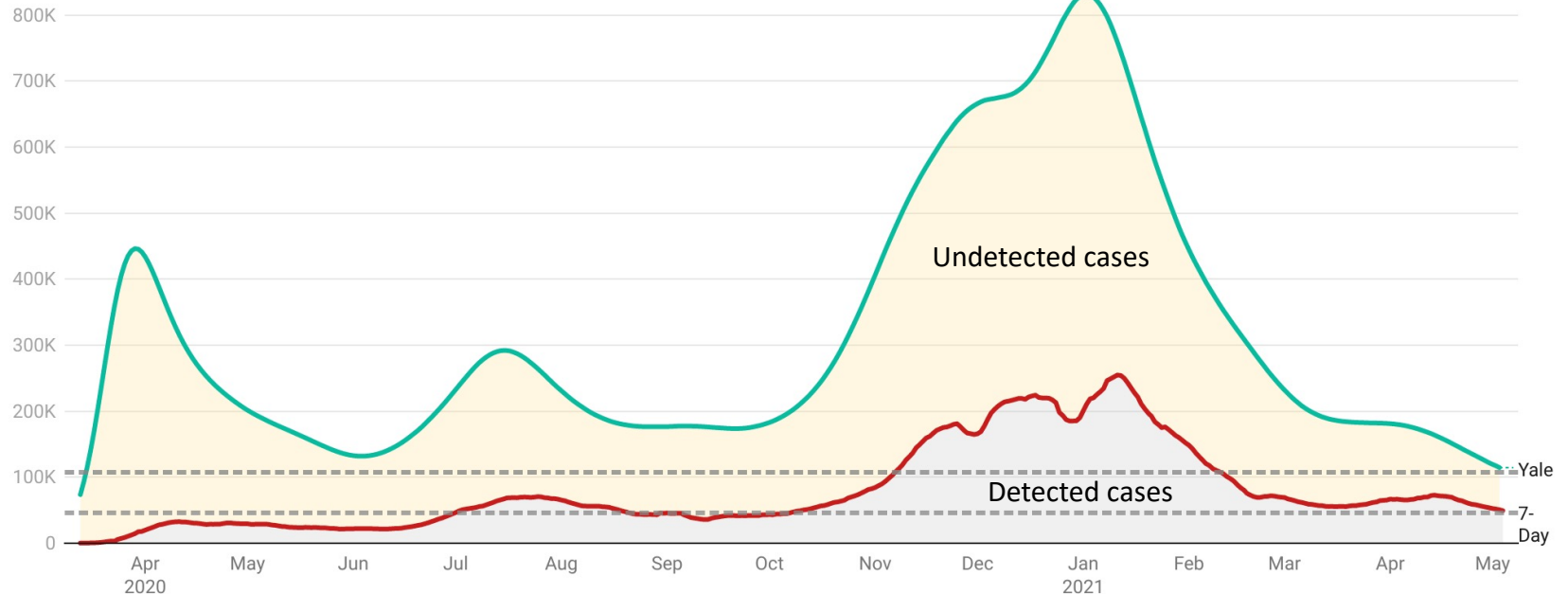


Chart: Health Industry Advisor LLC • Source: Yale School of Public Health • Created with Datawrapper

Covid-19 "Vital Signs"

Week-Over-Week Changes in New Cases

The rate of change in new cases in the U.S. turned negative sixteen days ago. Worldwide, new cases have been trending down for four days.

Week-Over-Week Changes in Newly-Detected Cases: USA v. Worldwide

7-Day Moving Average, As of May 4

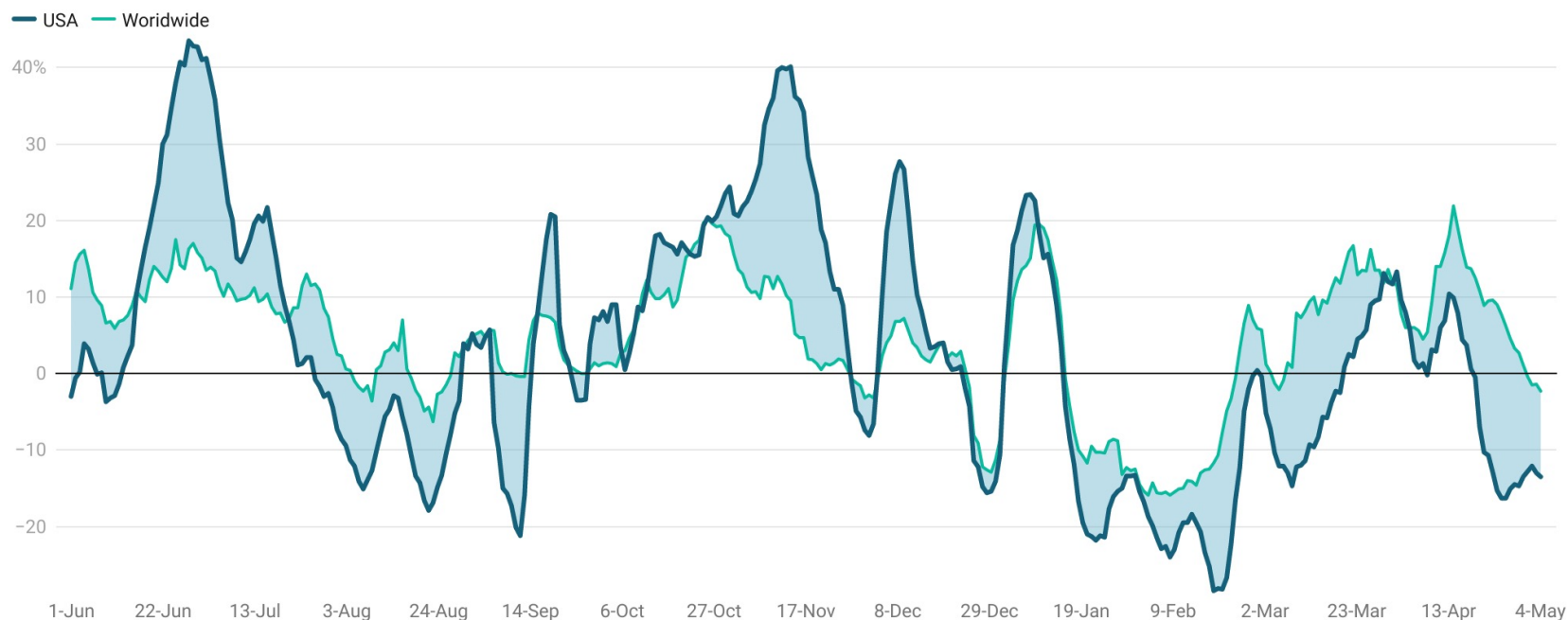


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Covid-19 Inpatient Census

Covid-19 inpatient census has been declining for several weeks.

Hospitalized Covid-19 Patients

Compared to Same Day, Prior Weeks

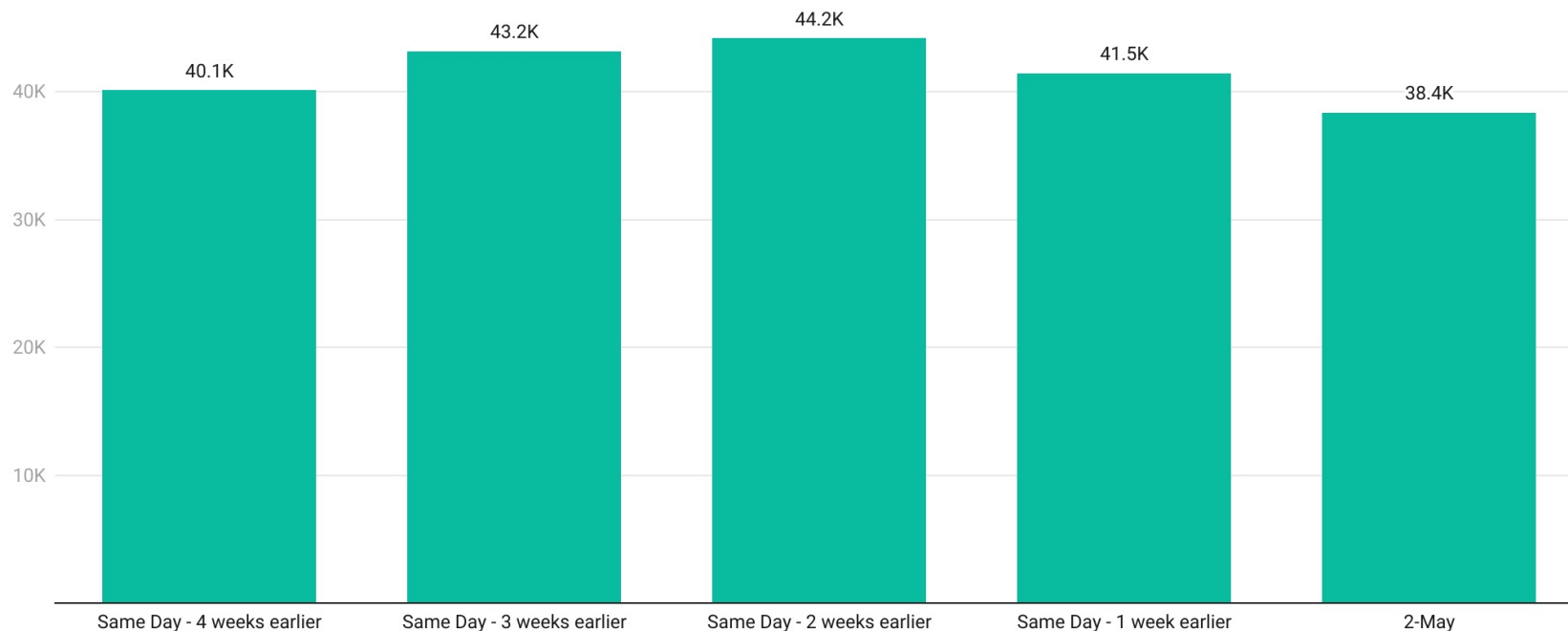


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper



Covid-19 Inpatient Census

Covid-19 inpatient census has dropped to levels unseen since last October.

Covid-19 Inpatient Census

As of May 2

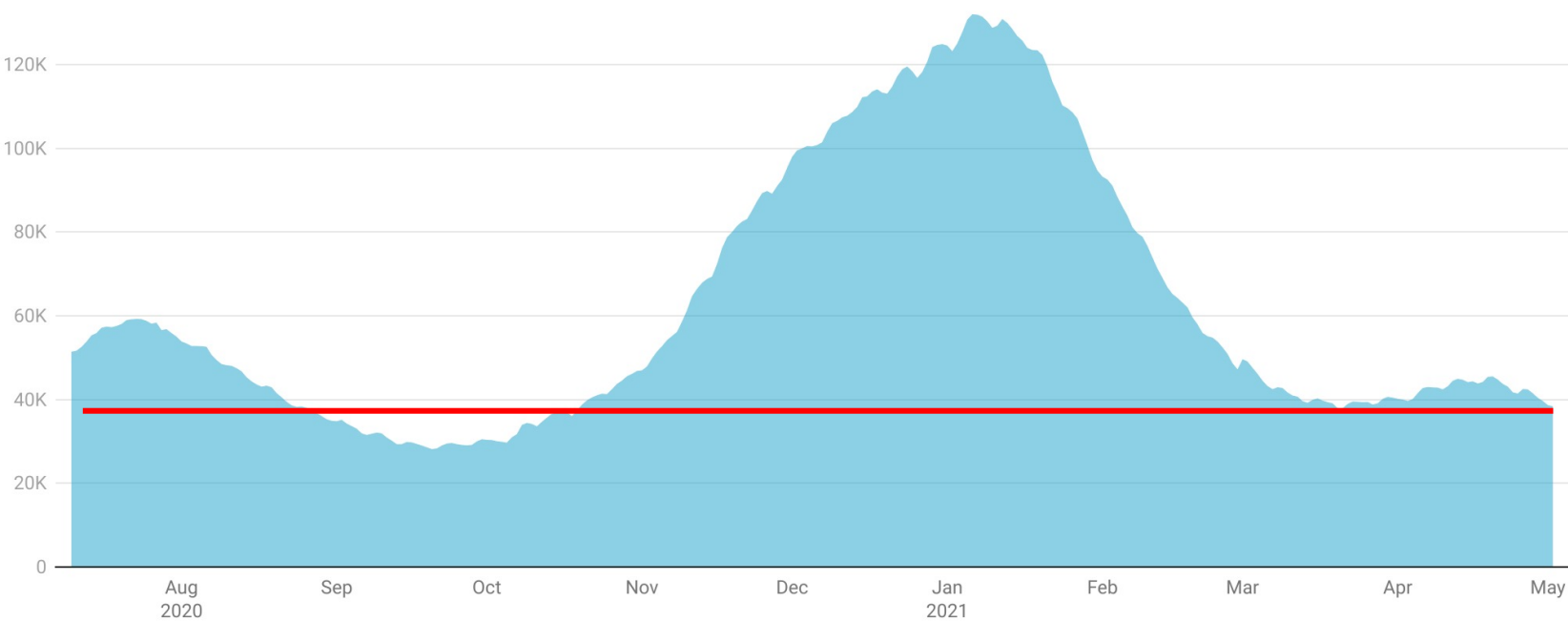


Chart: Health Industry Advisor LLC • Source: Centers for Disease Control and Prevention • Created with Datawrapper

Deaths Reported With Coronavirus

The 7-day death rate increased slightly week-over-week yet is 5% lower than two weeks ago.

Daily Deaths Reported With Coronavirus

As of May 4

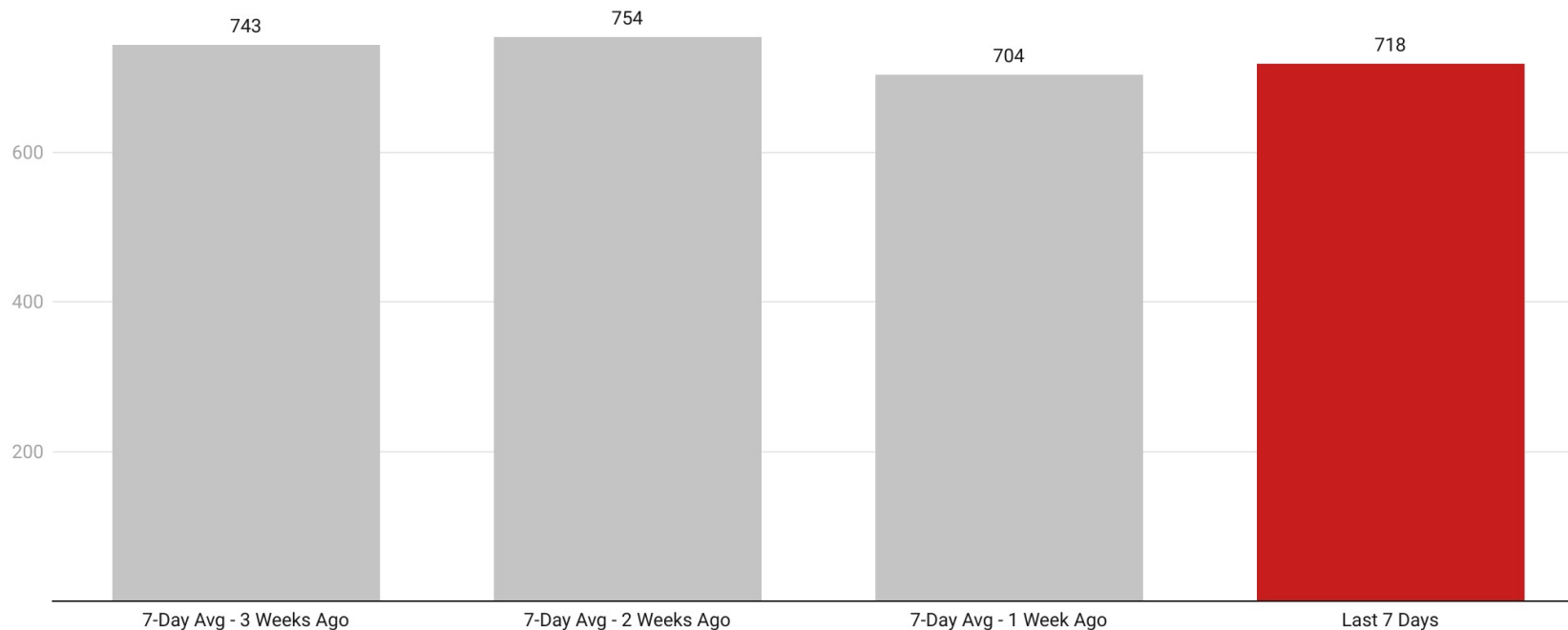


Chart: Health Industry Advisor LLC • Source: worldometer.info • Created with Datawrapper

Covid-19 “Vital Signs”

Deaths With Coronavirus

Deaths with coronavirus (7-day average) remains lower than it has been for most of the last nine months.

Deaths With Coronavirus

7-Day Average, Through May 4

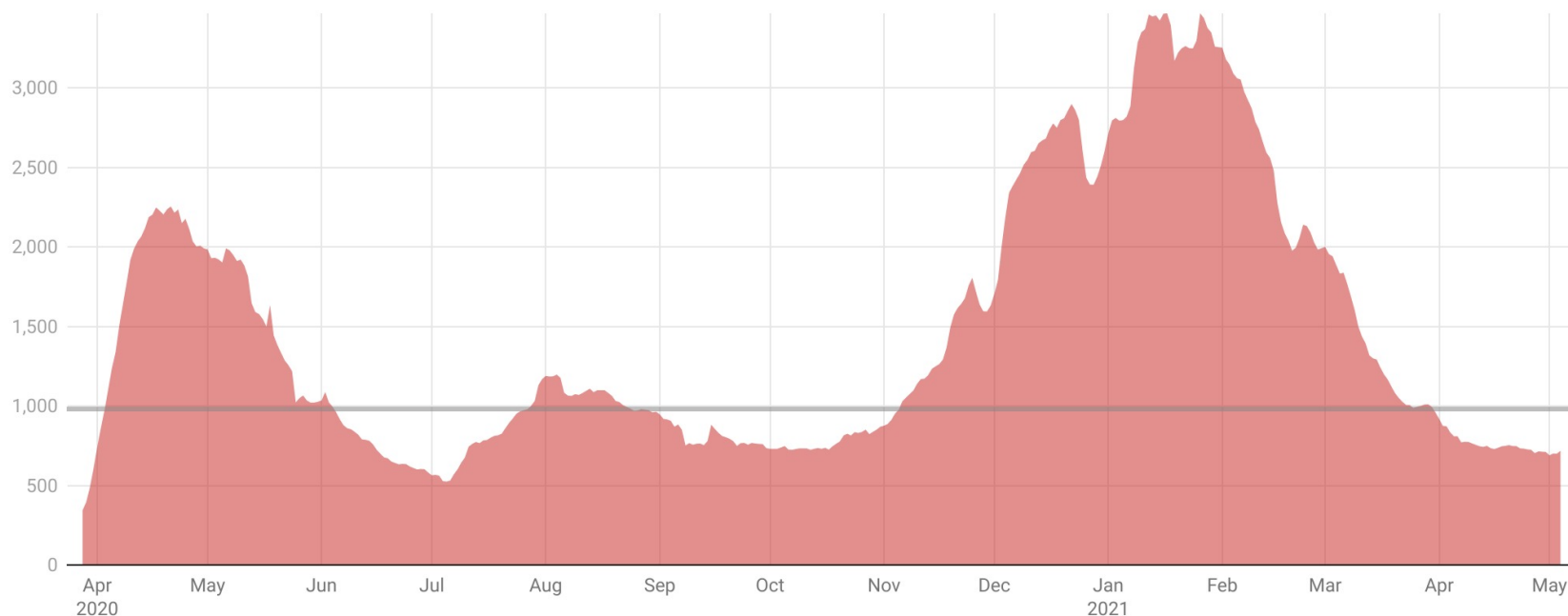


Chart: Health Industry Advisor LLC • Created with Datawrapper

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>