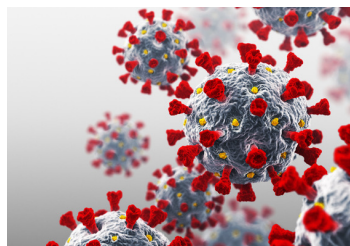


Covid-19 "Vital Signs"

Issue # 316

April 10, 2021



Covid-19 "Vital Signs"

Vaccination Status - US

More than 3 million Americans were vaccinated per day over the past week, a slight increase over last week. The mix tilted slightly toward second doses (or, lone JNJ doses) versus first Moderna or Pfizer doses.

U.S. Covid-19 Vaccinations - Weekly

7-Day Average, Though the Date Shown

■ 1st of 2 Doses ■ Second Dose (or, Only JNJ Dose)

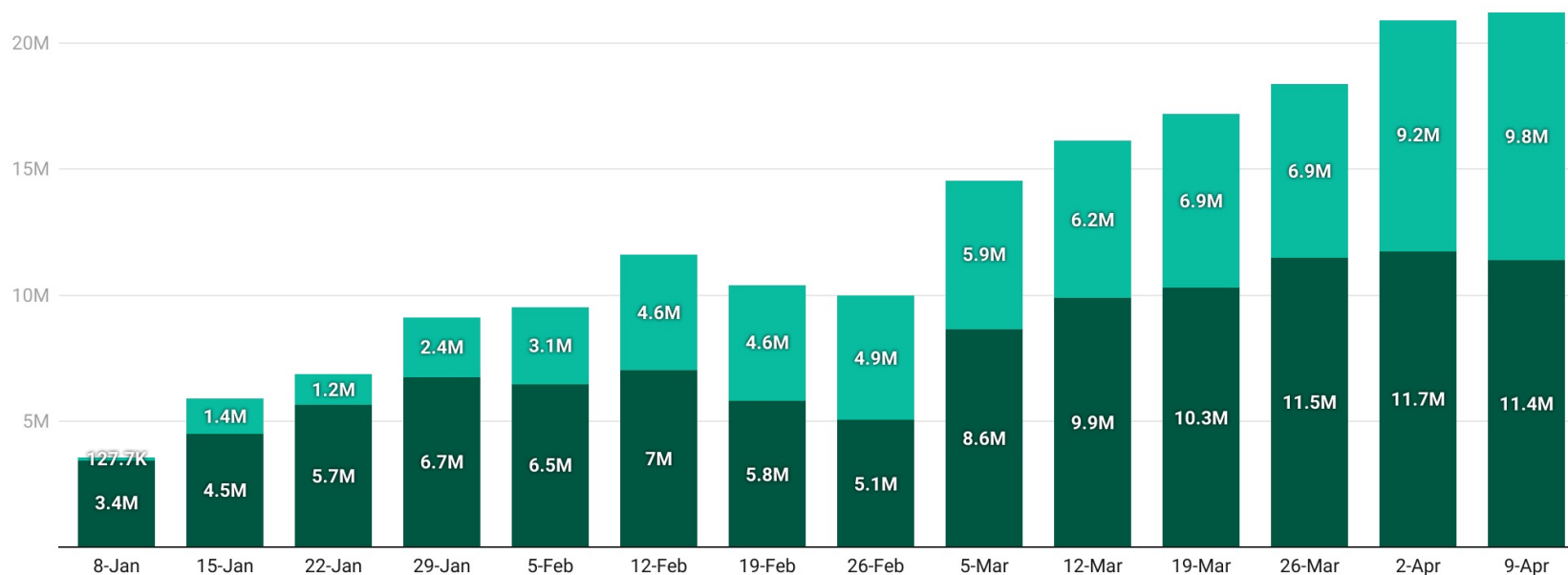


Chart: Health Industry Advisor • Source: Bloomberg • Created with Datawrapper

Vaccination Status - US

Covid-19 "Vital Signs"

Vaccinations neared 179 million to-date. Nearly 44% of adults have received at least one dose and 26.4% are fully vaccinated. Among senior citizens, more than 77% have received at least one dose and nearly 60% are fully inoculated.

Covid-19 Vaccinations - US

For the week shown

■ 1st of 2 Doses ■ Fully inoculated

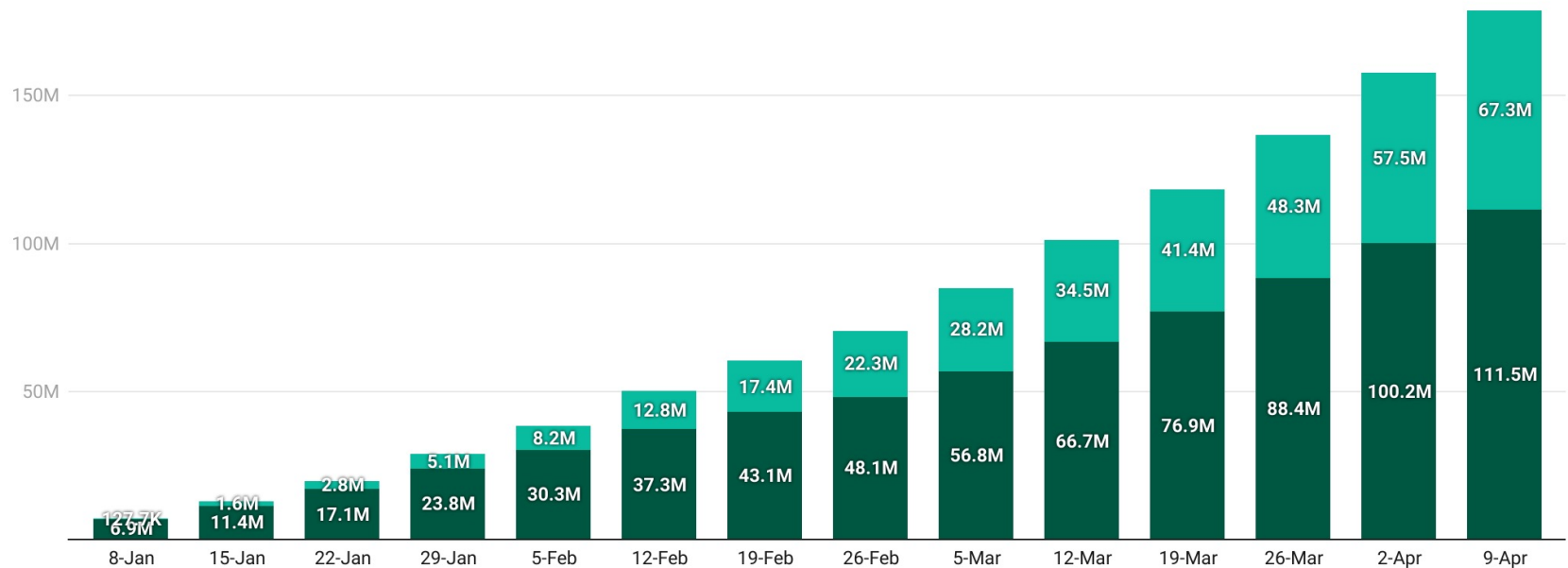


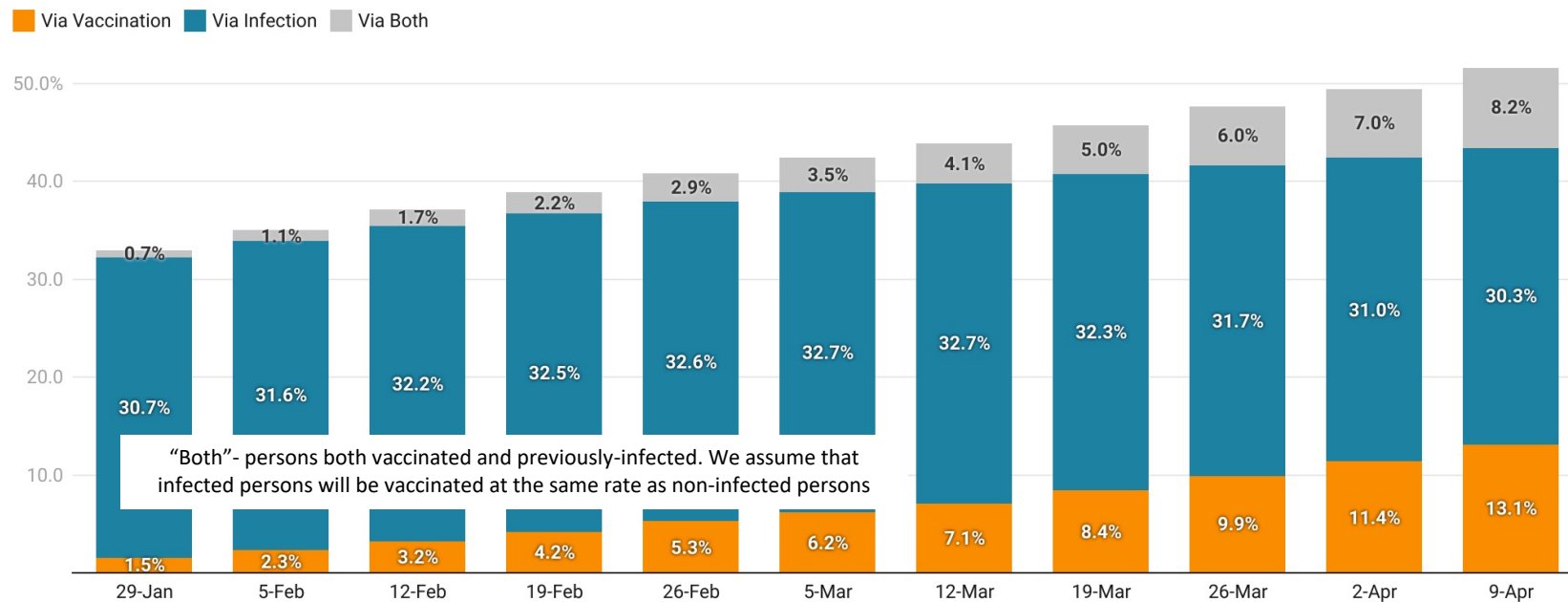
Chart: Health Industry Advisor LLC • Source: Bloomberg • Created with Datawrapper

Estimated Immunity Status - US

Estimated immunity exceeds 50% of the US population, still mostly coming from a prior infection.

Estimated % Immunity - US

Based on Vaccination Rate and Estimated True Infections (Yale/Harvard Model)



<https://covid19-projections.com/>; <https://covidestim.org>

Chart: Health Industry Advisor LLC • Source: Harvard/Yale and Bloomberg • Created with Datawrapper



Estimated Actual Infections – Yale/Harvard Model

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

Weekly New Estimated Infections - Yale/Harvard Model

For the 7 days ending on date shown

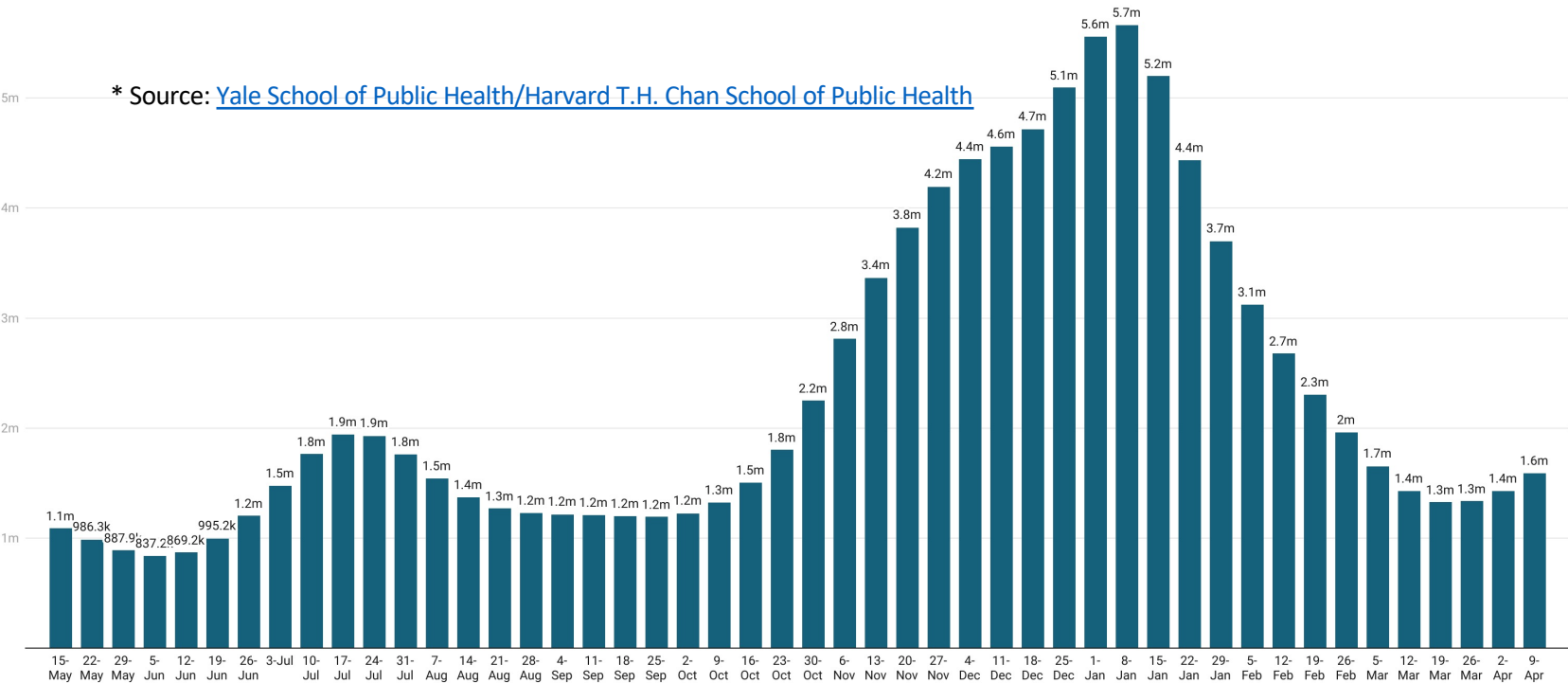


Chart: Health Industry Advisor LLC • Source: Yale and Harvard Schools of Public Health • Created with Datawrapper

Covid-19 "Vital Signs"

Newly Detected Cases

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

Weekly New Detected Cases - United States

For the 7 days ending on date shown

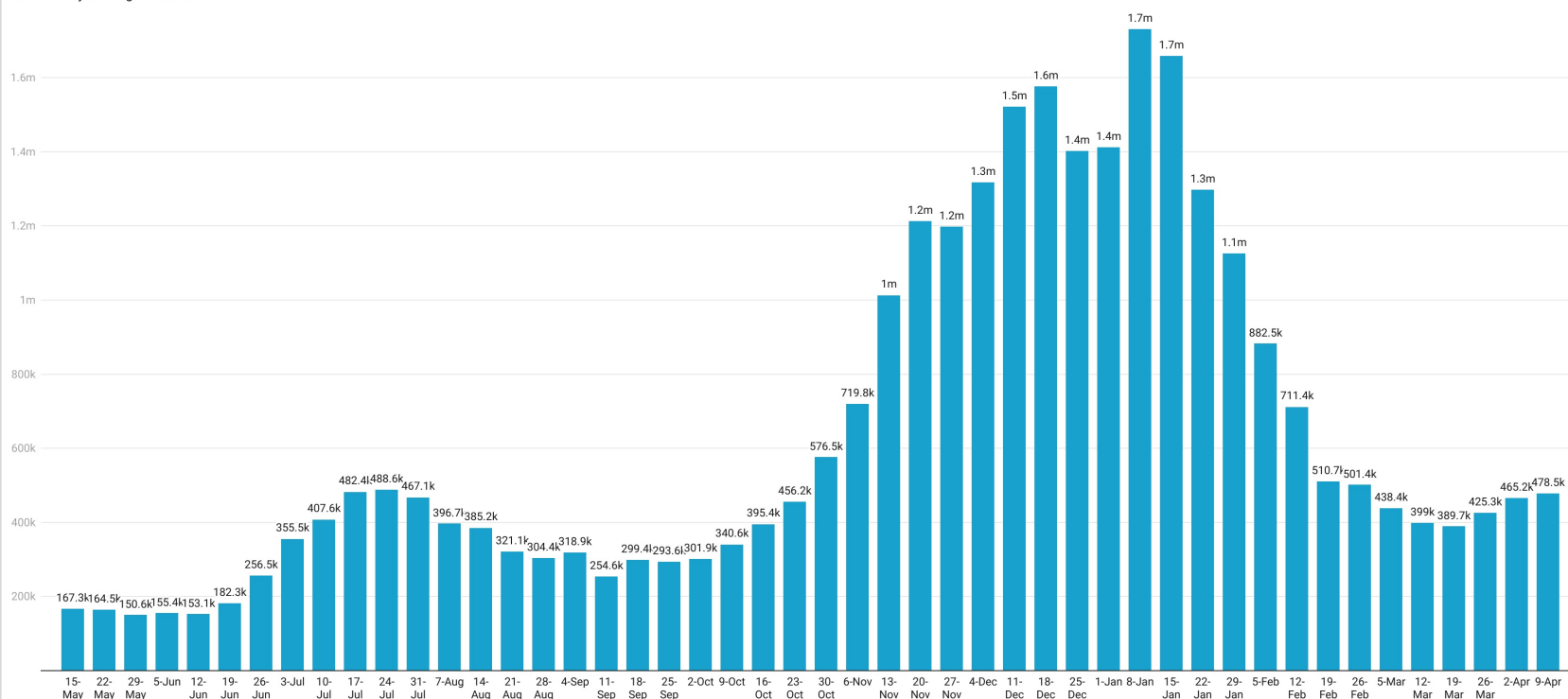


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Weekly Change in Newly Detected Cases

The rate of increase in new cases slowed last week compared to the previous two weeks.

Weekly Change in New Detected Cases - United States

For the 7 days ending on date shown

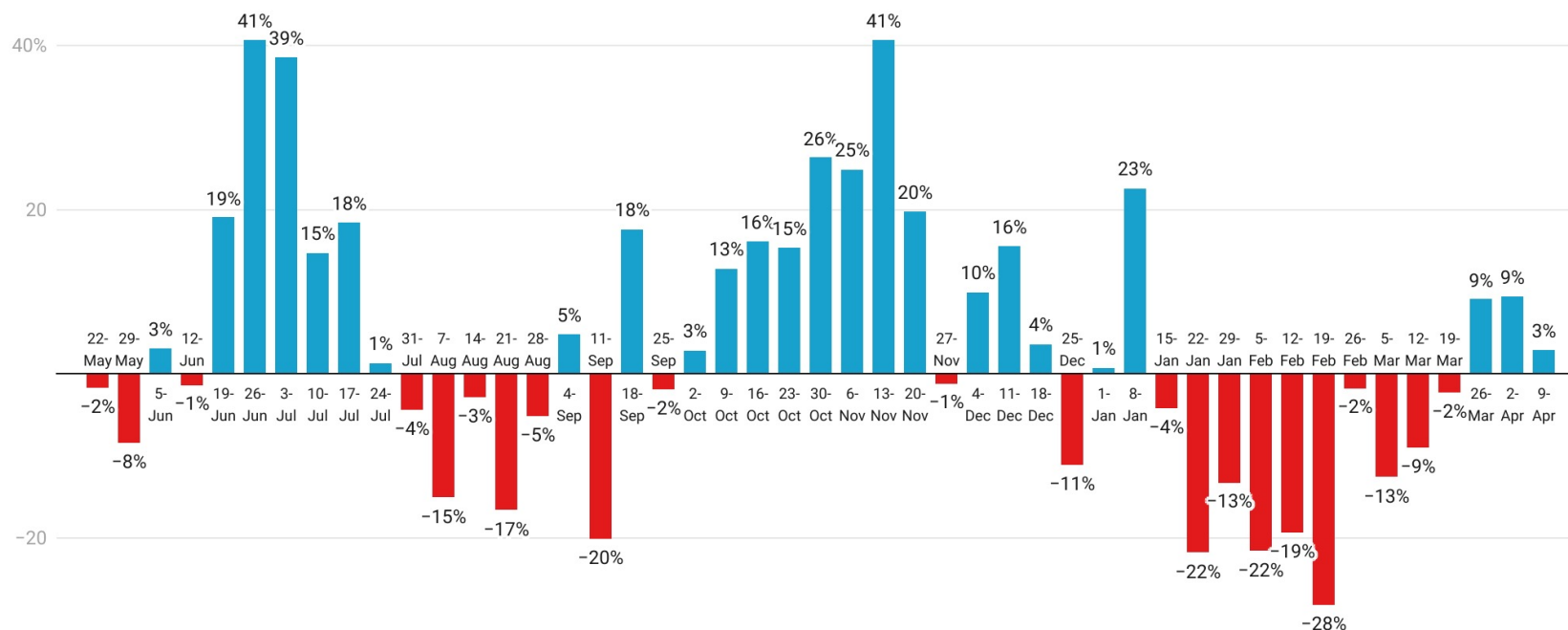


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Covid-19 "Vital Signs"

Newly Detected Cases - By State

More than half of all new cases in the past week were detected in just seven states: Florida, Illinois, Michigan, New Jersey, New York, Pennsylvania, and Texas.

New Weekly Detected Cases - By State

March 27 - April 2

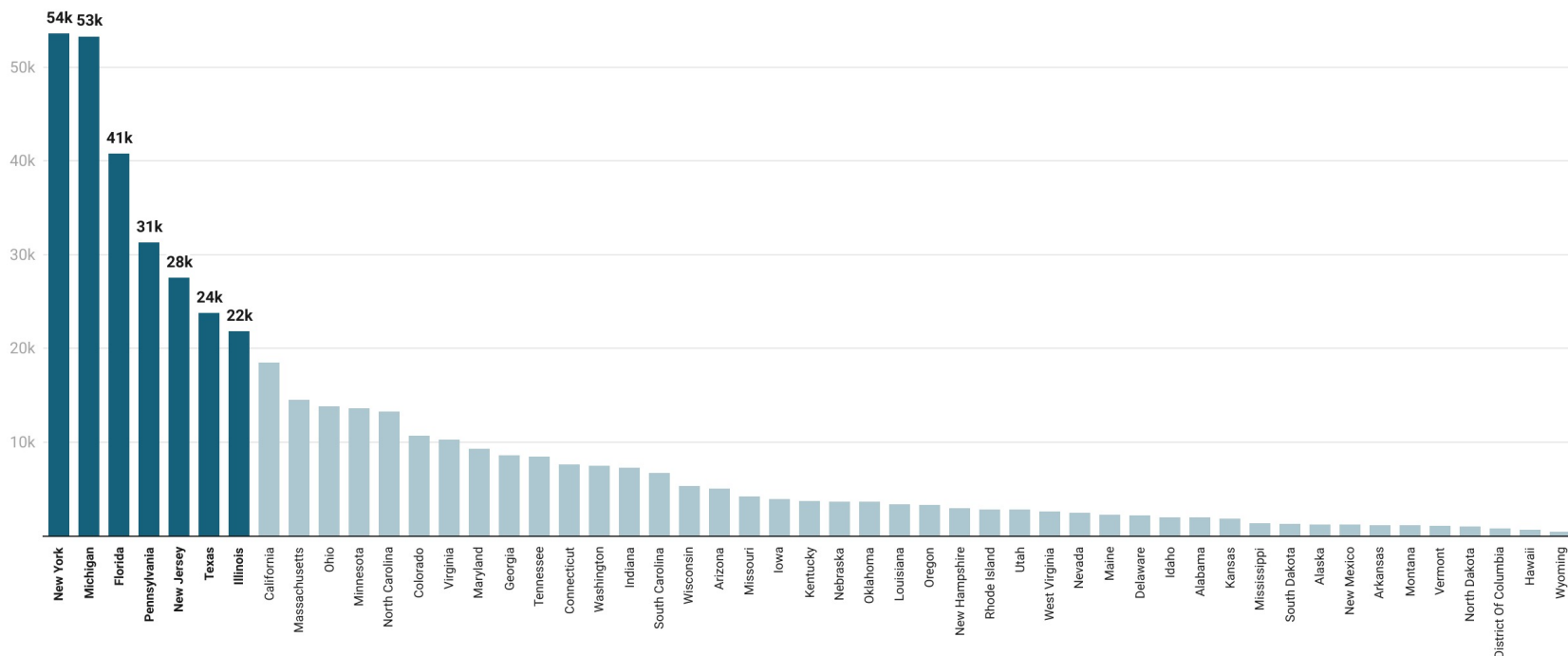


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Week-Over-Week Change in Newly Detected Cases

For the third straight week, Michigan reported the largest week-over-week increase in new cases – the second straight week by a substantial margin.

Week-Over-Week Change In Newly Detected Cases - By State

April 3-9 vs. March 27-April 2

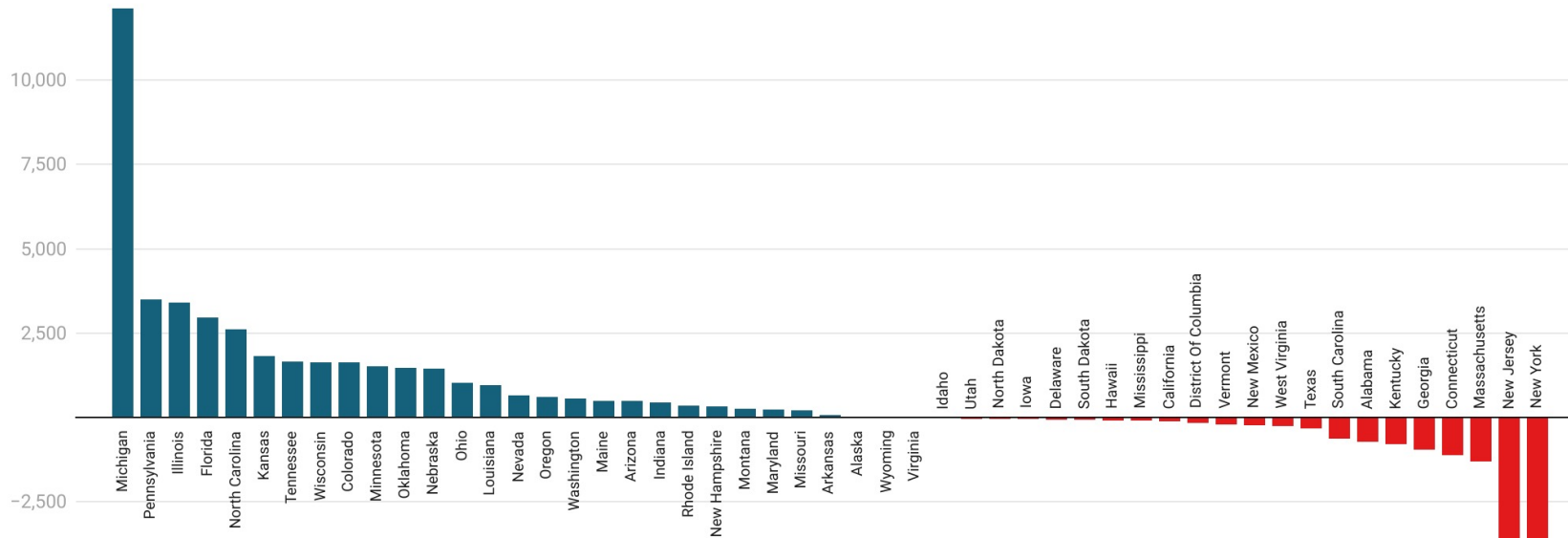


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Covid-19 "Vital Signs"

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..

Weekly Test-Positive% - United States

For the 7 days ending on date shown

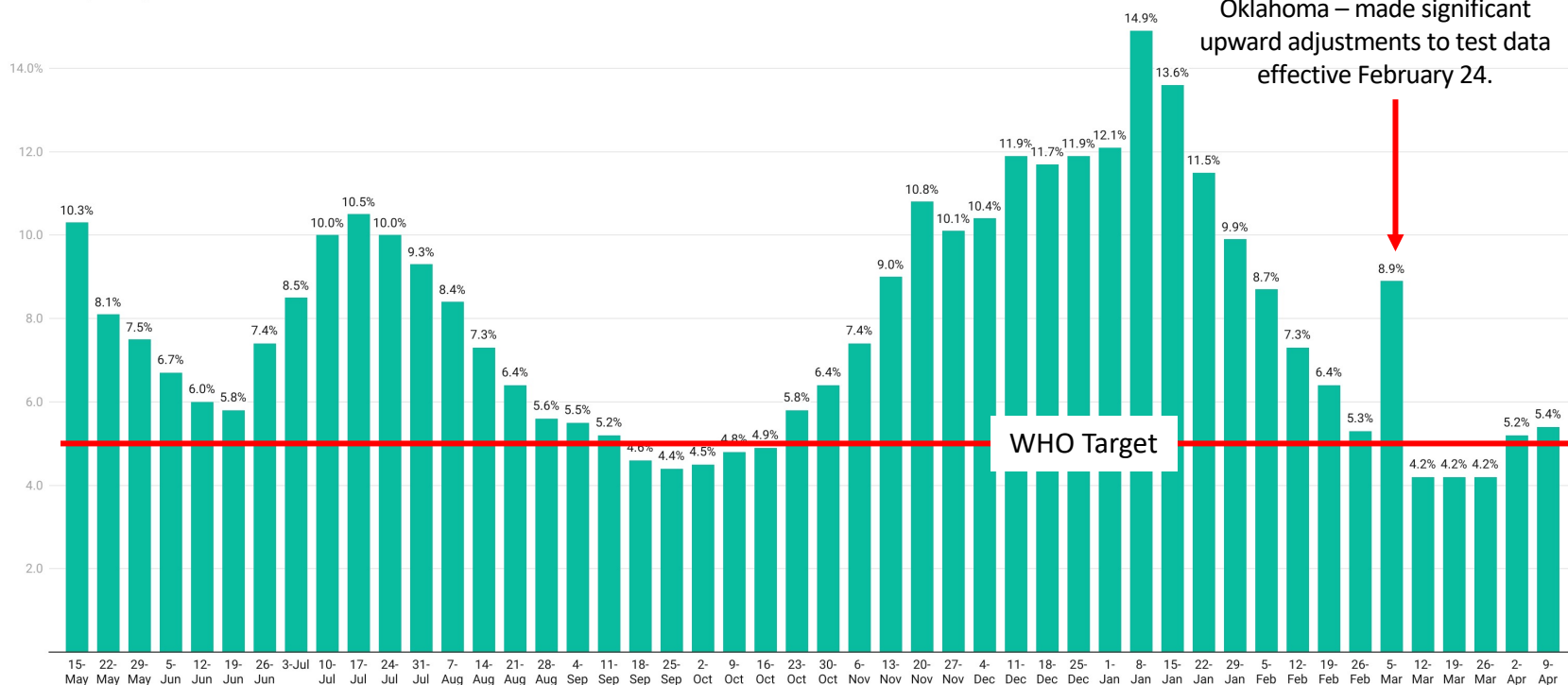


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper

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.

Weekly Tests / Newly Detected Case - United States

For the 7 days ending on date shown

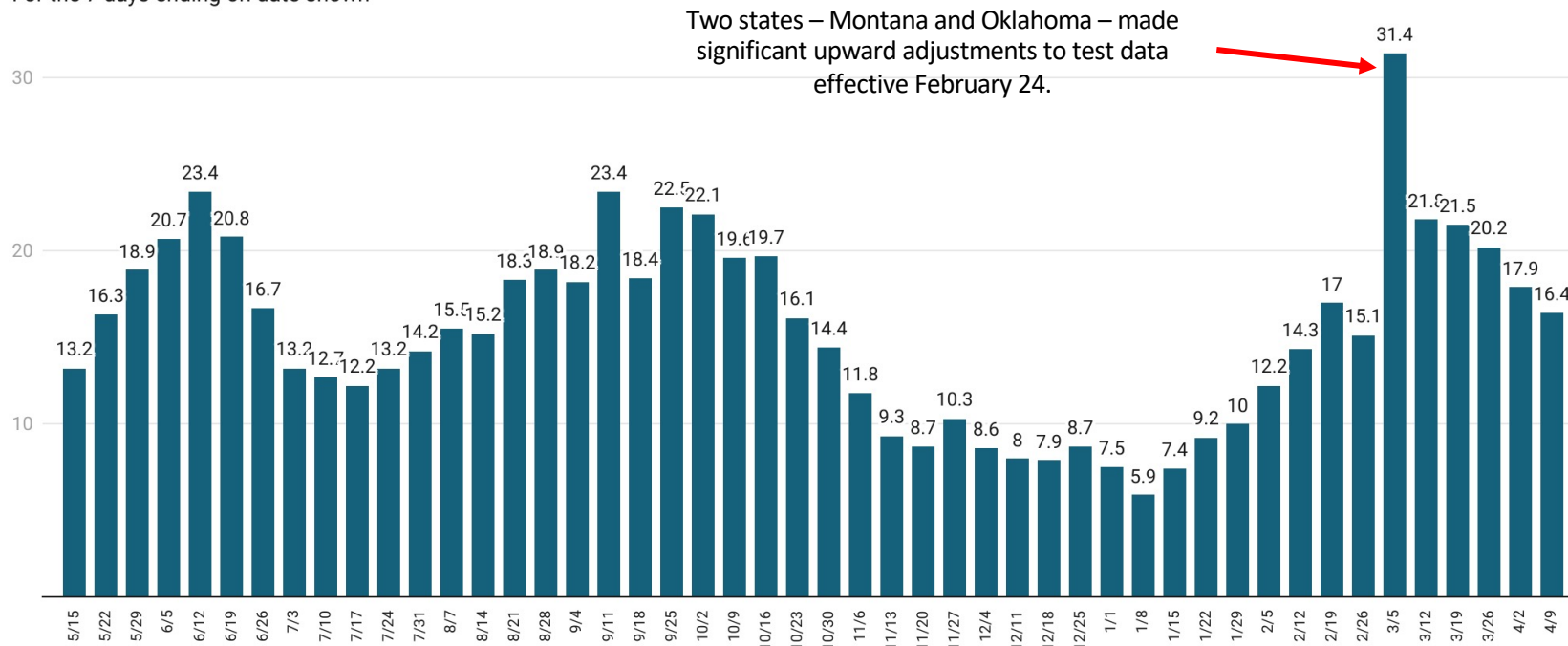


Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project & worldometers.info • Created with Datawrapper



Active Cases

The number of Active Cases dropped slightly last week, the for the tenth straight weekly decline.

Current Active Cases - United States

For the 7 days ending on date shown

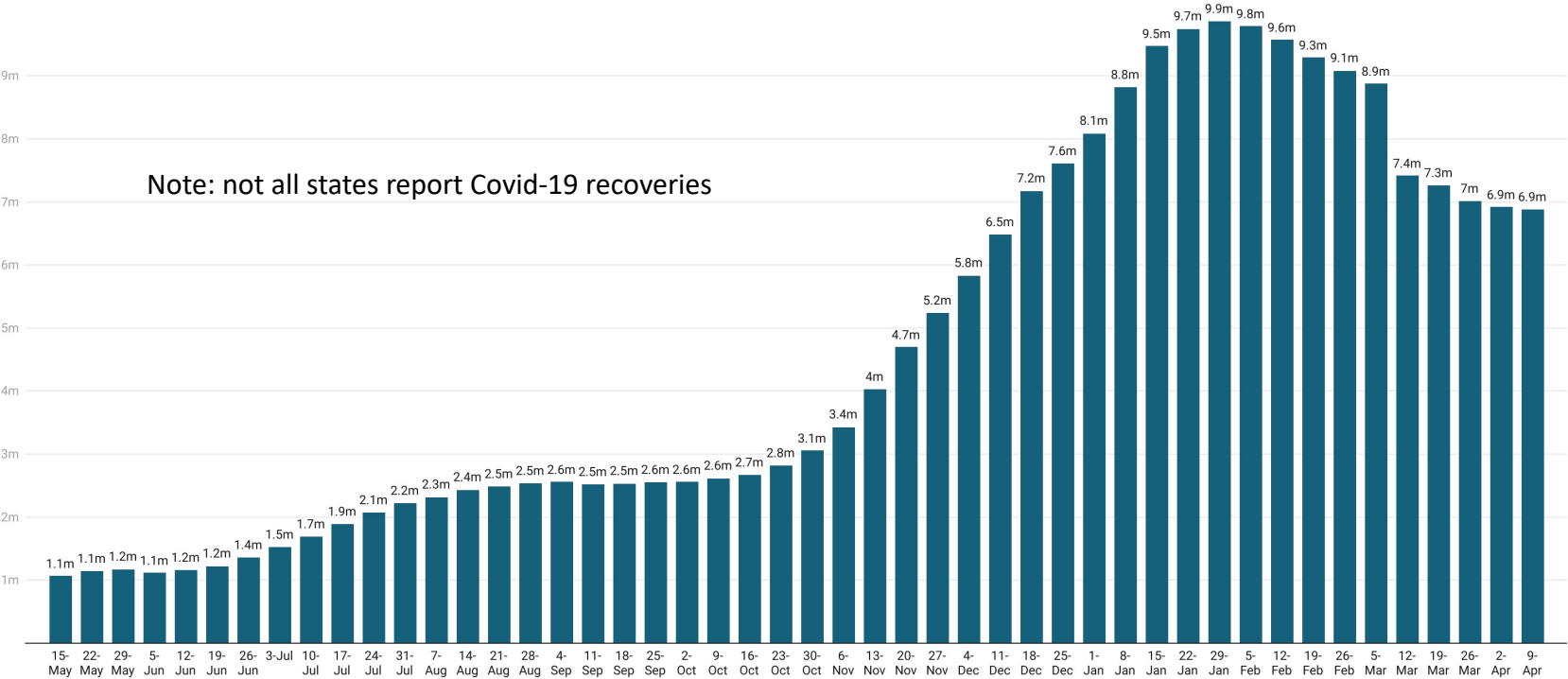


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

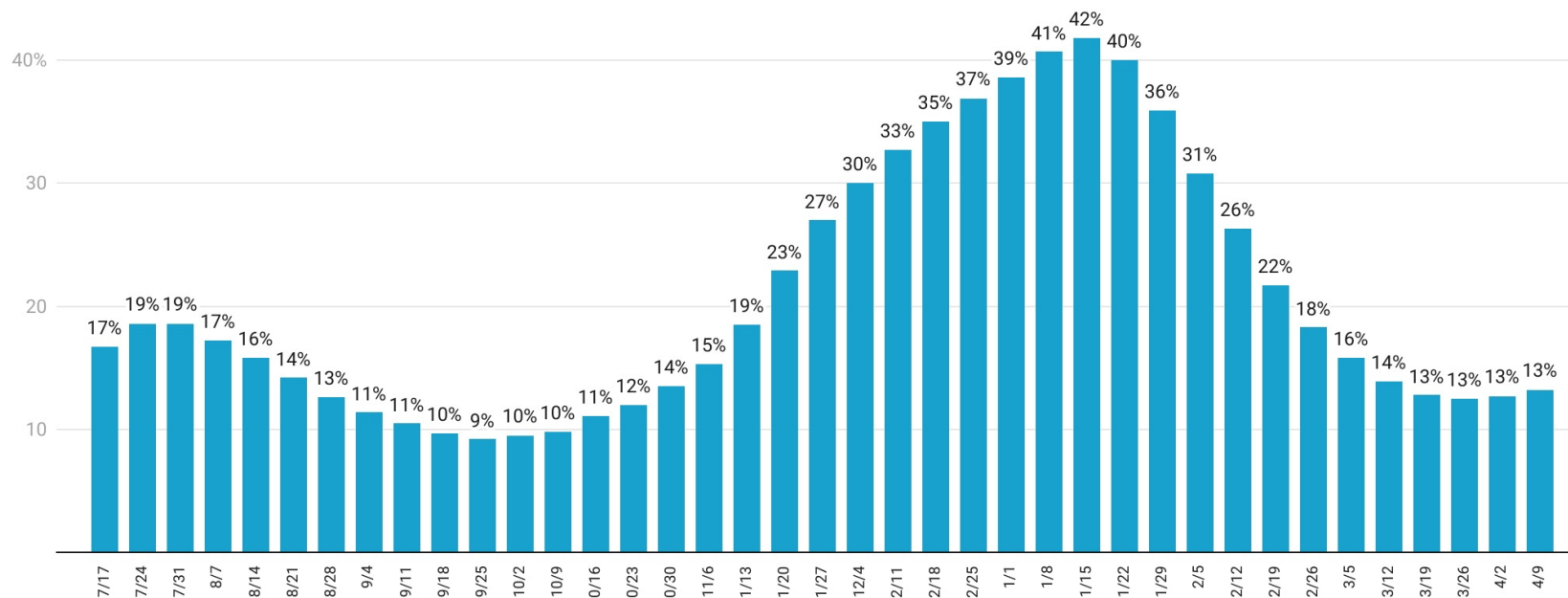
Covid-19 "Vital Signs"

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 Occupancy - % of Inpatient Beds - United States

For the 7 days ending on date shown



The following states started reporting data on: HI, 7/14; KS, 7/25

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

Covid-19 "Vital Signs"

Covid-19 Hospital Occupancy

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

Covid-19 Occupancy: % of Inpatient Beds By State

As of April 9

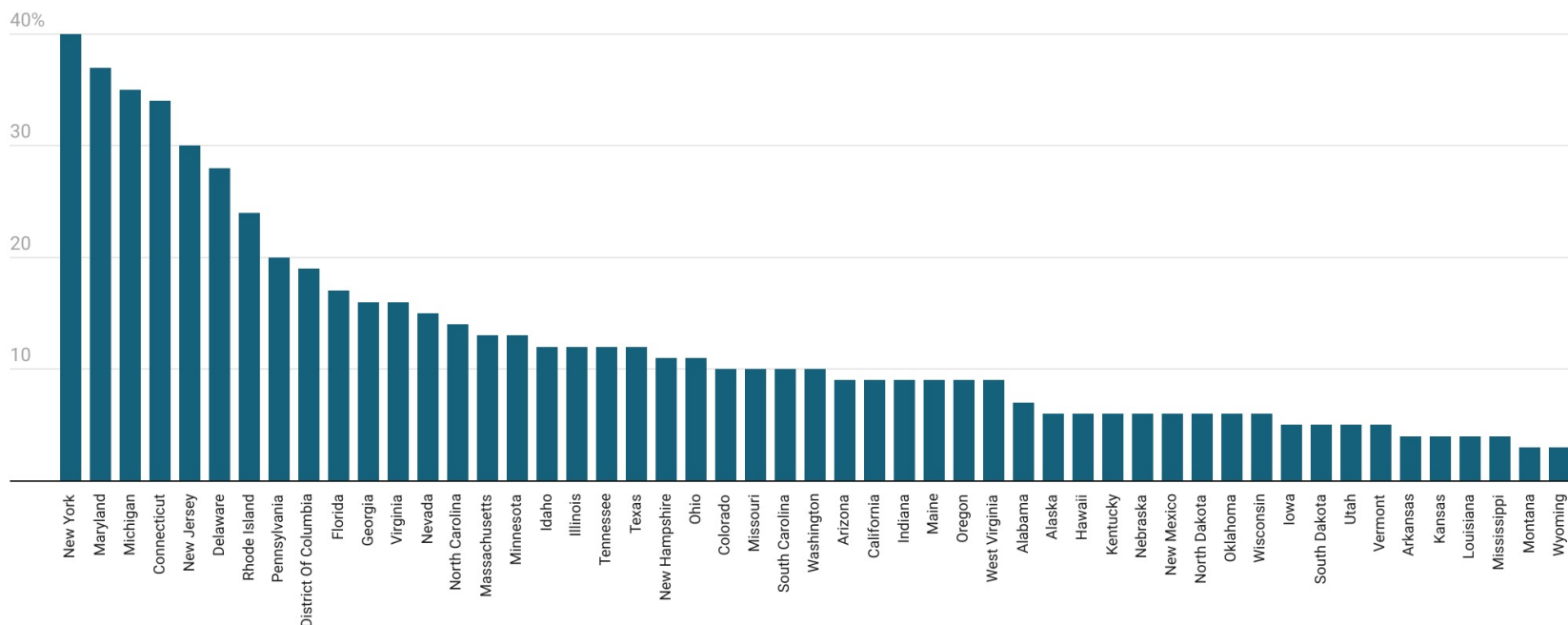


Chart: Health Industry Advisor LLC • Source: Centers for Disease Control & Prevention • Created with Datawrapper

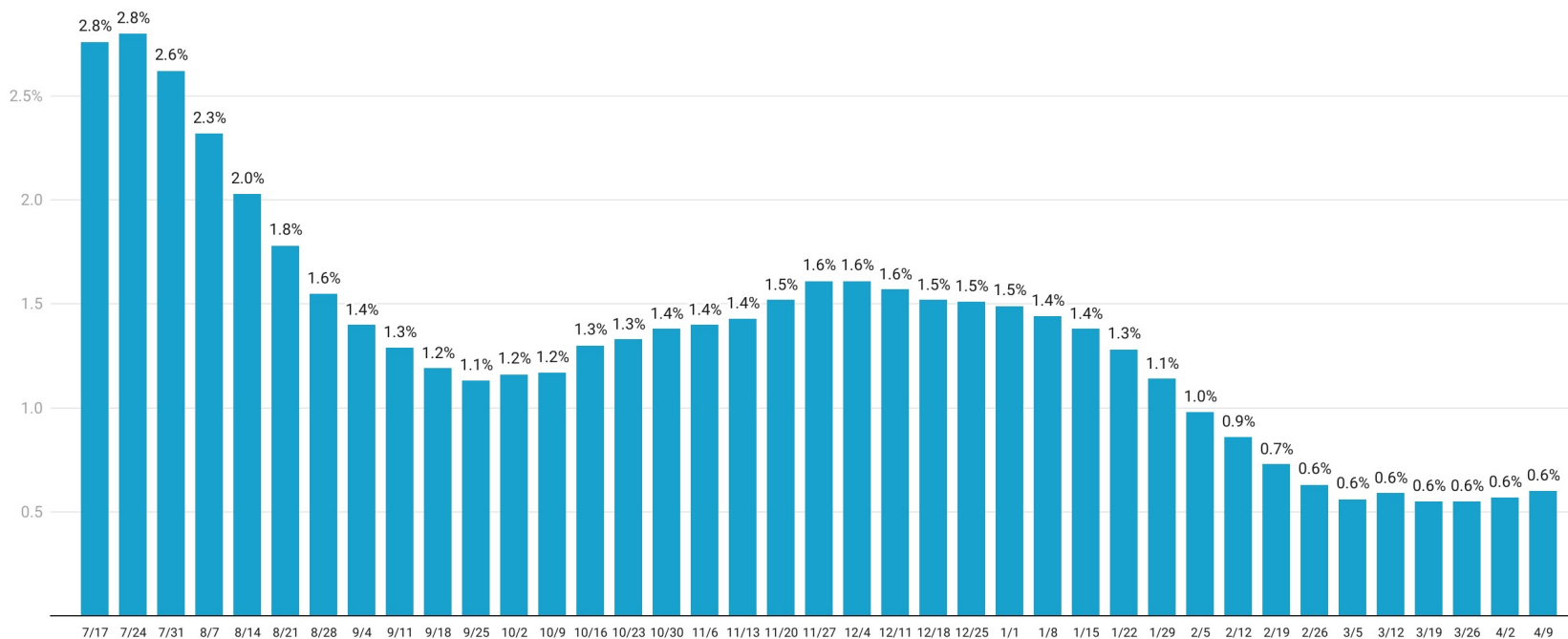
Covid-19 "Vital Signs"

Hospitalized Covid-19 Patients / Active Cases

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

Estimated % of Detected & Active Covid-19 Patients in the Hospital

For the 7 days ending on date shown



The following states started reporting data on: HI, 7/14; KS, 7/25

Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project & Worldometers.info • Created with Datawrapper

% of Visits Relating to Influenza

As we move past the normal peak of the flu season, we observe how mild this season was compared to each of the past several seasons.

% of Visits For Influenza-Like Illnesses, National Summary

By Week & Flu Season

— 2015-16 — 2016-2017 — 2017-2018 — 2018-2019 — 2019-2020 — 2020-2021

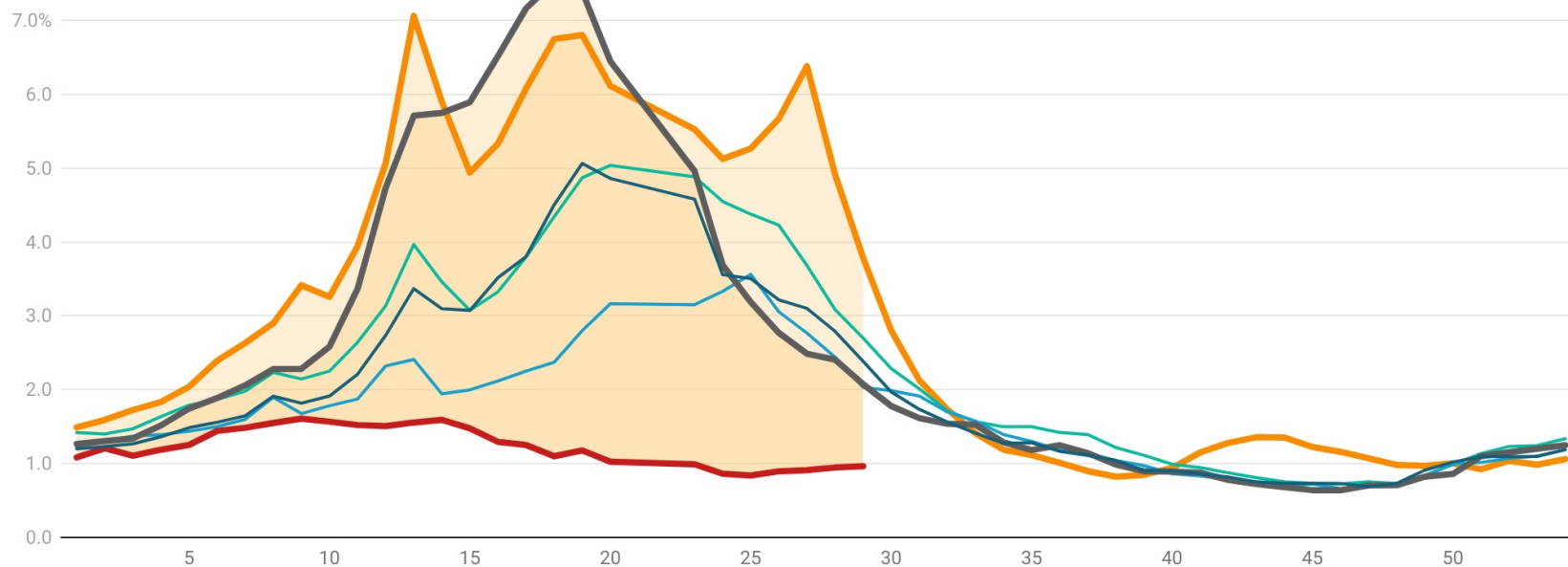


Chart: Health Industry Advisor LLC • Source: Centers for Disease Control & Prevention • Created with Datawrapper

Covid-19 "Vital Signs"

Deaths With Coronavirus

Deaths with coronavirus this week dropped below 5,500 for the first time since mid-October. Deaths have declined ten consecutive weeks.

Weekly Deaths - United States

For the 7 days ending on date shown

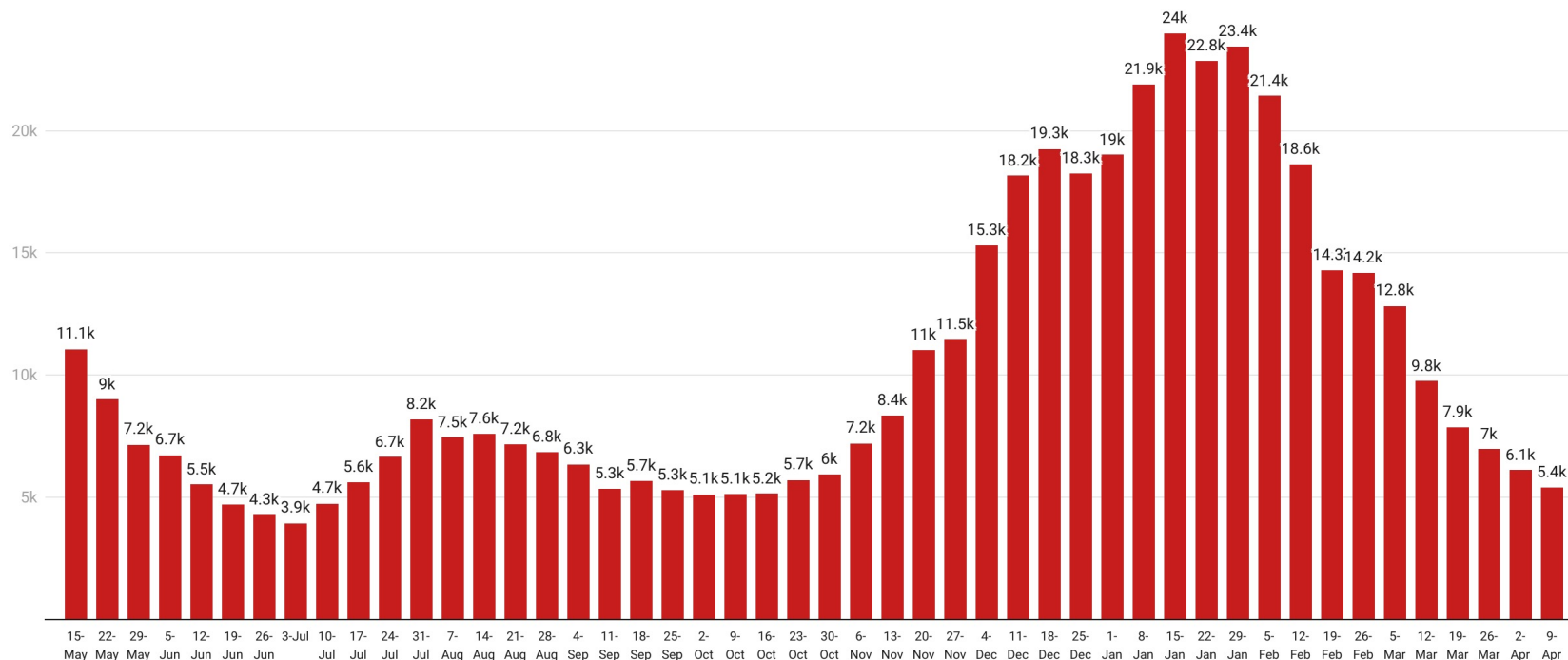


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

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>