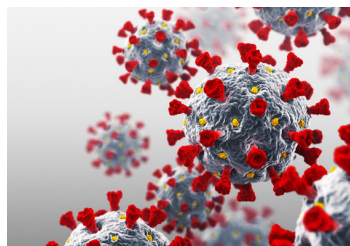


Covid-19 "Vital Signs"

Issue # 312

April 3, 2021



Covid-19 "Vital Signs"

Vaccination Status - US

Vaccinations surpassed 157 million to-date. Vaccinations set a new 7-day high of 3 million and increasing an average of 9.5% weekly over the past four weeks. Nearly 40% of adults have received at least one dose and 22.5% are fully vaccinated.

U.S. Covid-19 Vaccinations - Weekly

7-Day Average, Through the Date Shown

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

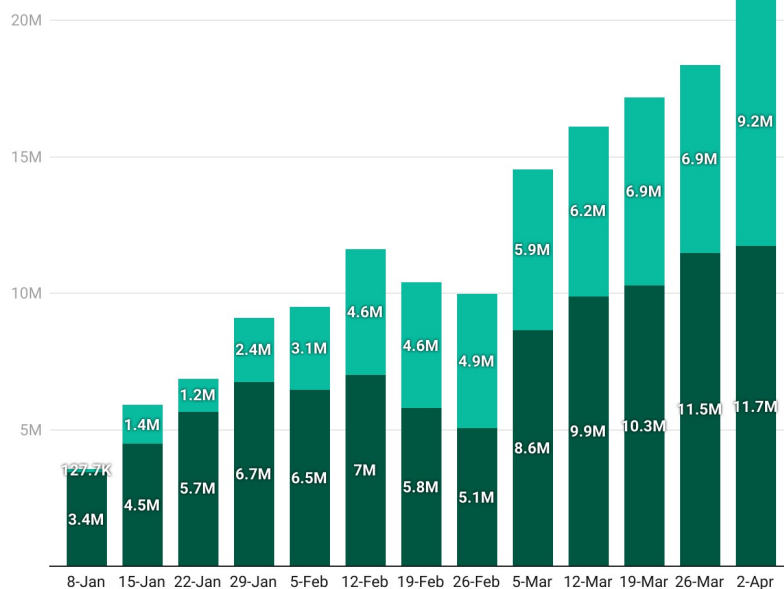


Chart: Health Industry Advisor • Source: Bloomberg • Created with Datawrapper

U.S. Covid-19 Vaccinations - Cumulative

As of the date shown

■ 1st of 2 Doses ■ Fully inoculated

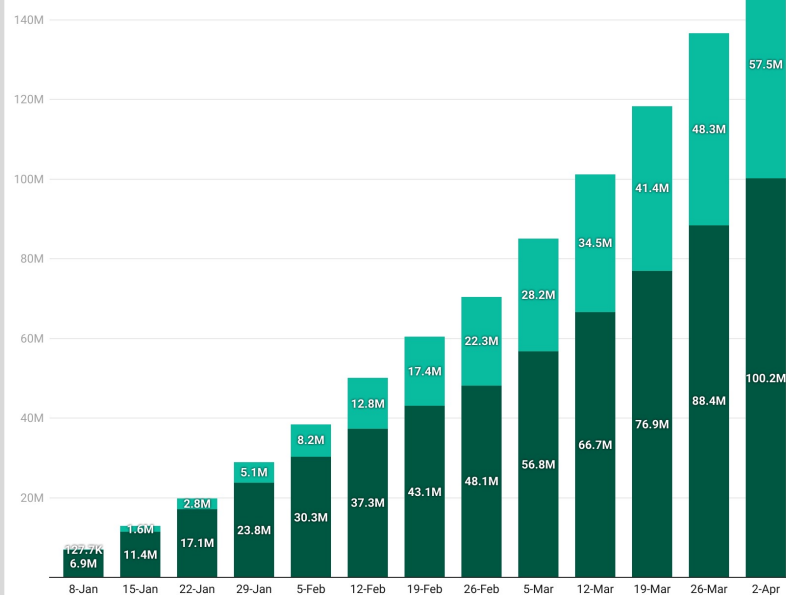


Chart: Health Industry Advisor LLC • Source: Bloomberg • Created with Datawrapper

Covid-19 "Vital Signs"

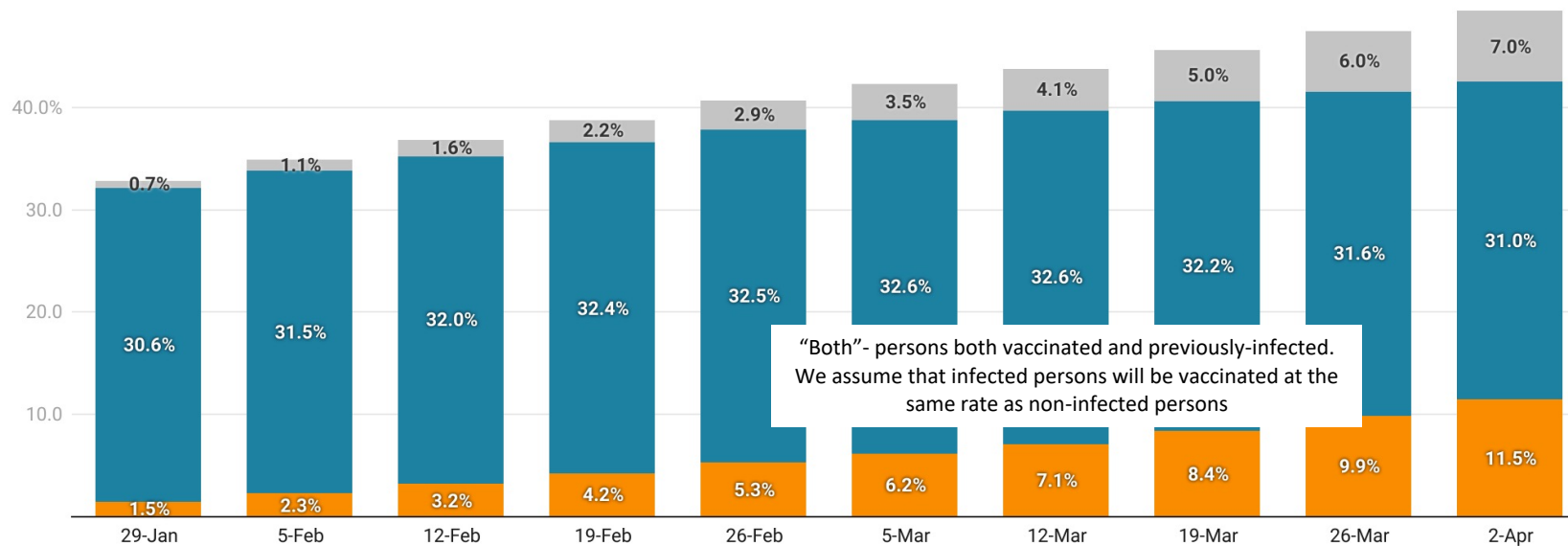
Estimated Immunity Status - US

Estimated immunity neared 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)

■ Via Vaccination ■ Via Infection ■ Via Both



<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 sharply week-over-week, reverting to the late-February level.

Weekly New Estimated Infections - Yale/Harvard Model

For the 7 days ending on date shown

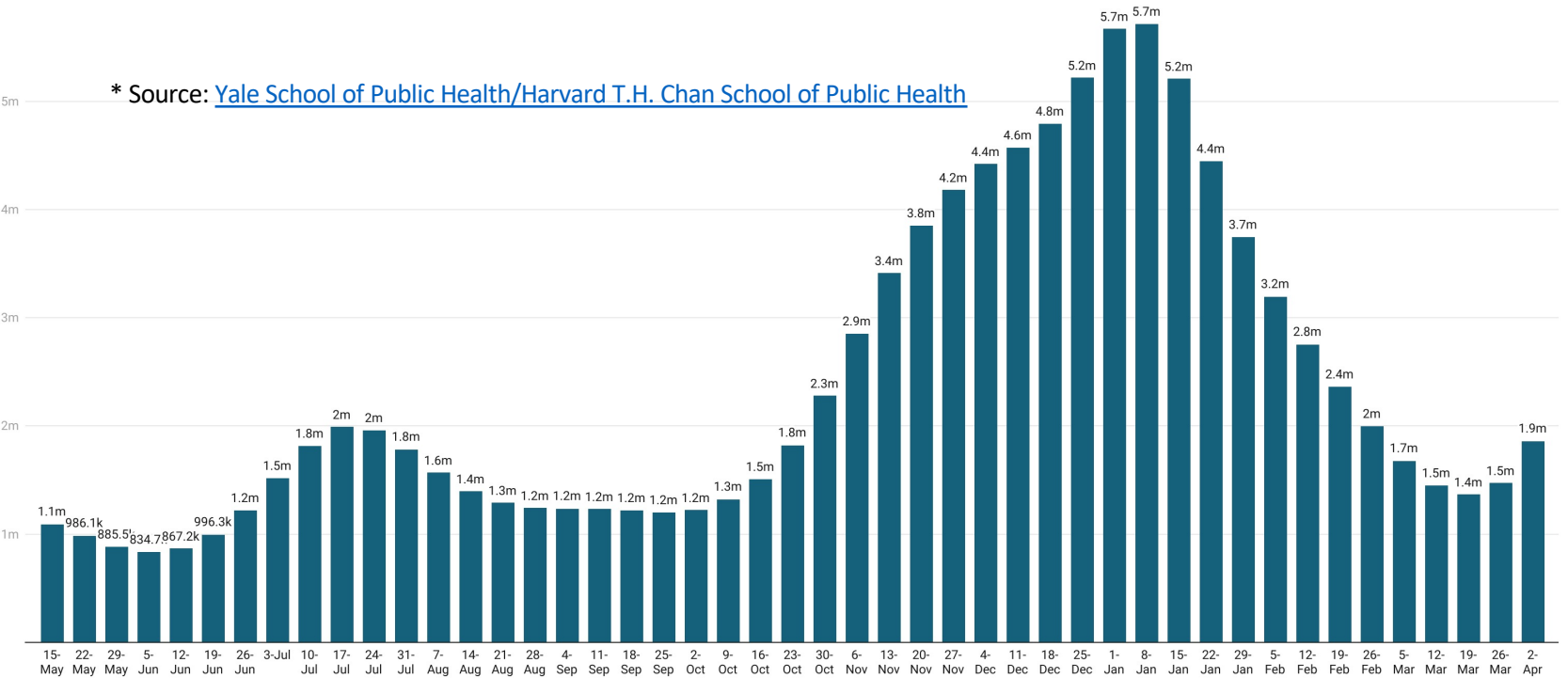


Chart: Health Industry Advisor LLC • Source: Yale and Harvard Schools of Public Health • Created with Datawrapper



Newly Detected Cases

New cases increased week-over-week for the second straight week

Weekly New Detected Cases - United States

For the 7 days ending on date shown

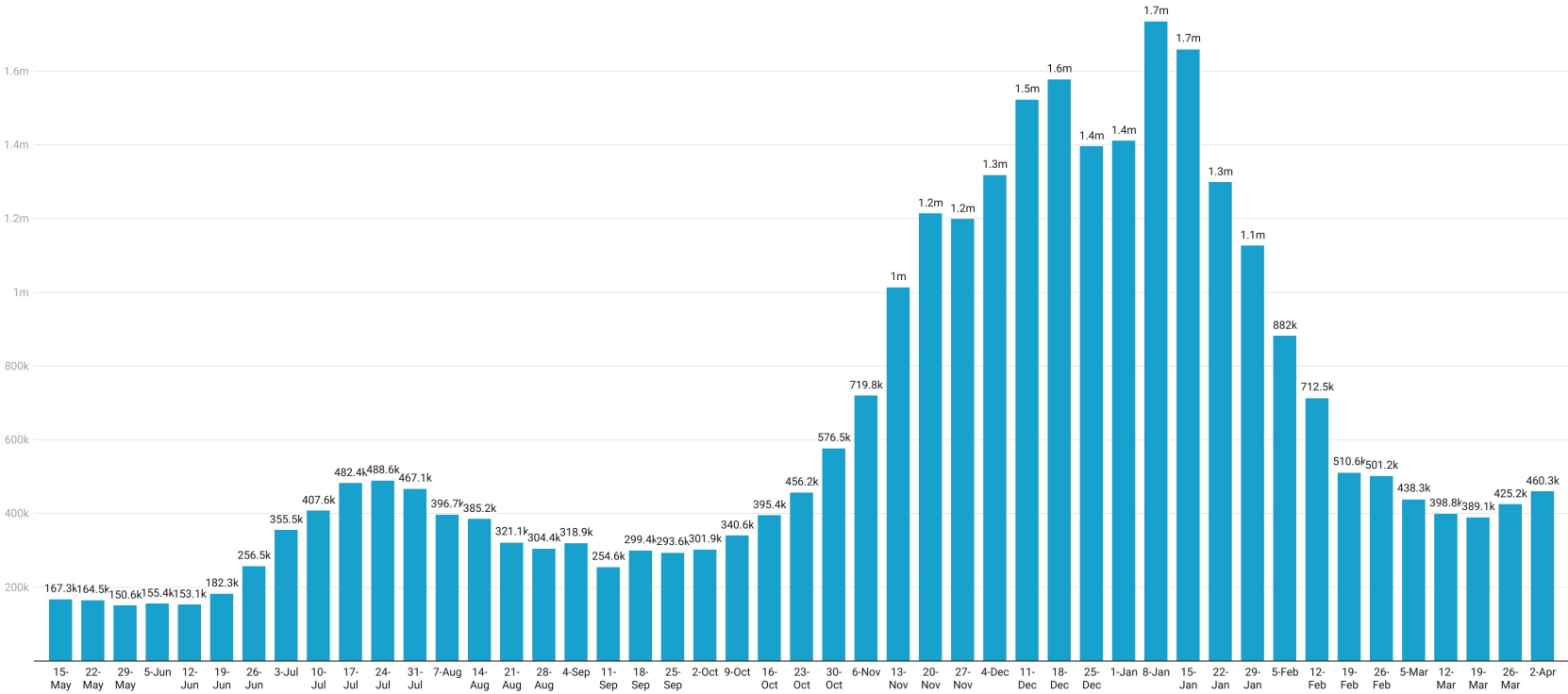


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Covid-19 "Vital Signs"

Newly Detected Cases - By State

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

New Weekly Detected Cases - By State

March 27 - April 2

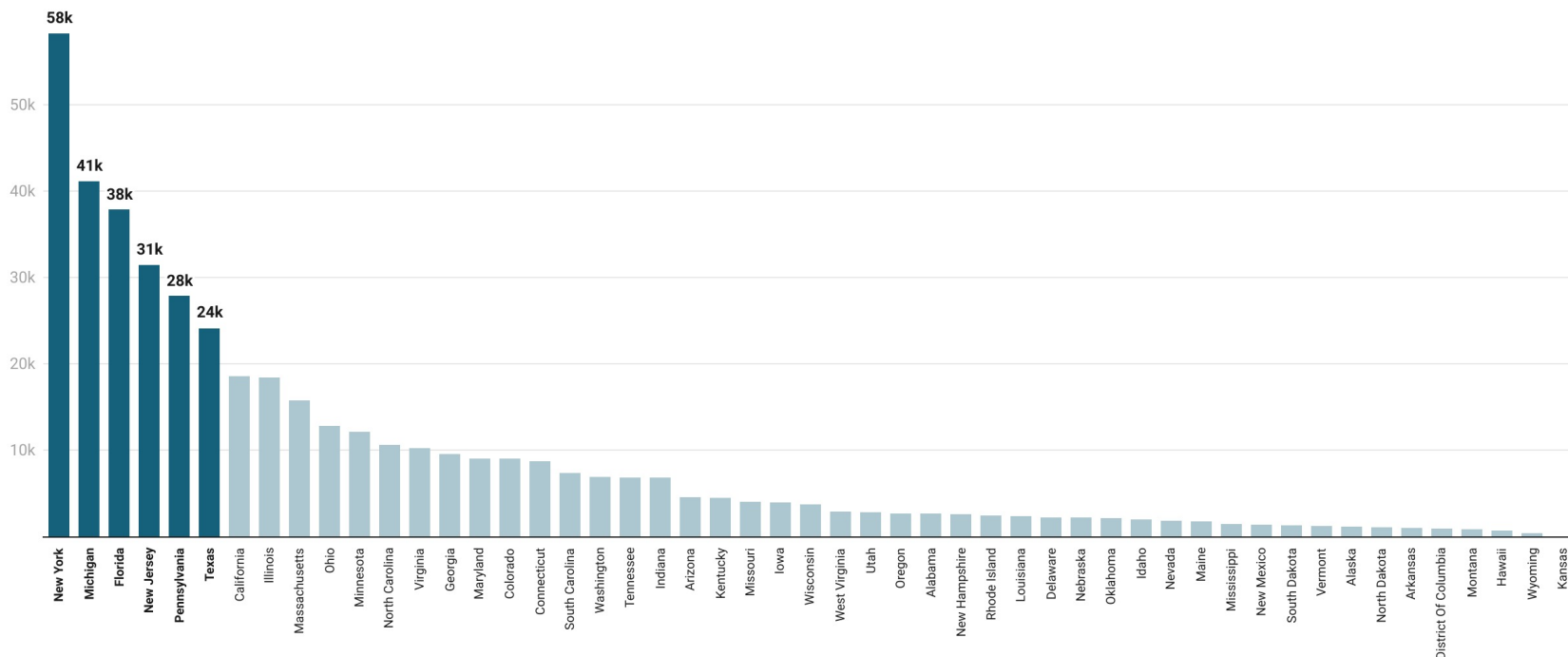


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Week-Over-Week Change in Newly Detected Cases

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

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

March 27-April 2 vs. March 20-26

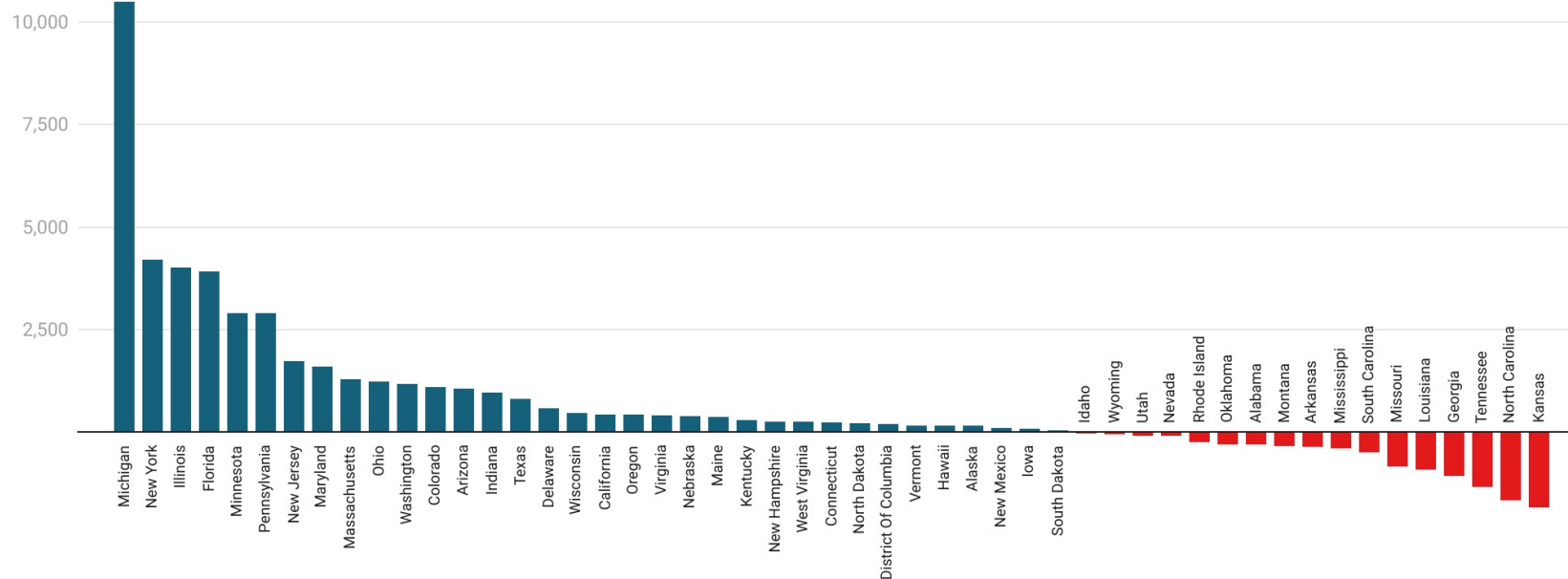


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Covid-19 "Vital Signs"

Covid-19 Testing

Test-positivity increased over recent weeks yet remains lower than most weeks during the pandemic and lower than the WHO targeted level.

Weekly Test-Positive% - United States

For the 7 days ending on date shown

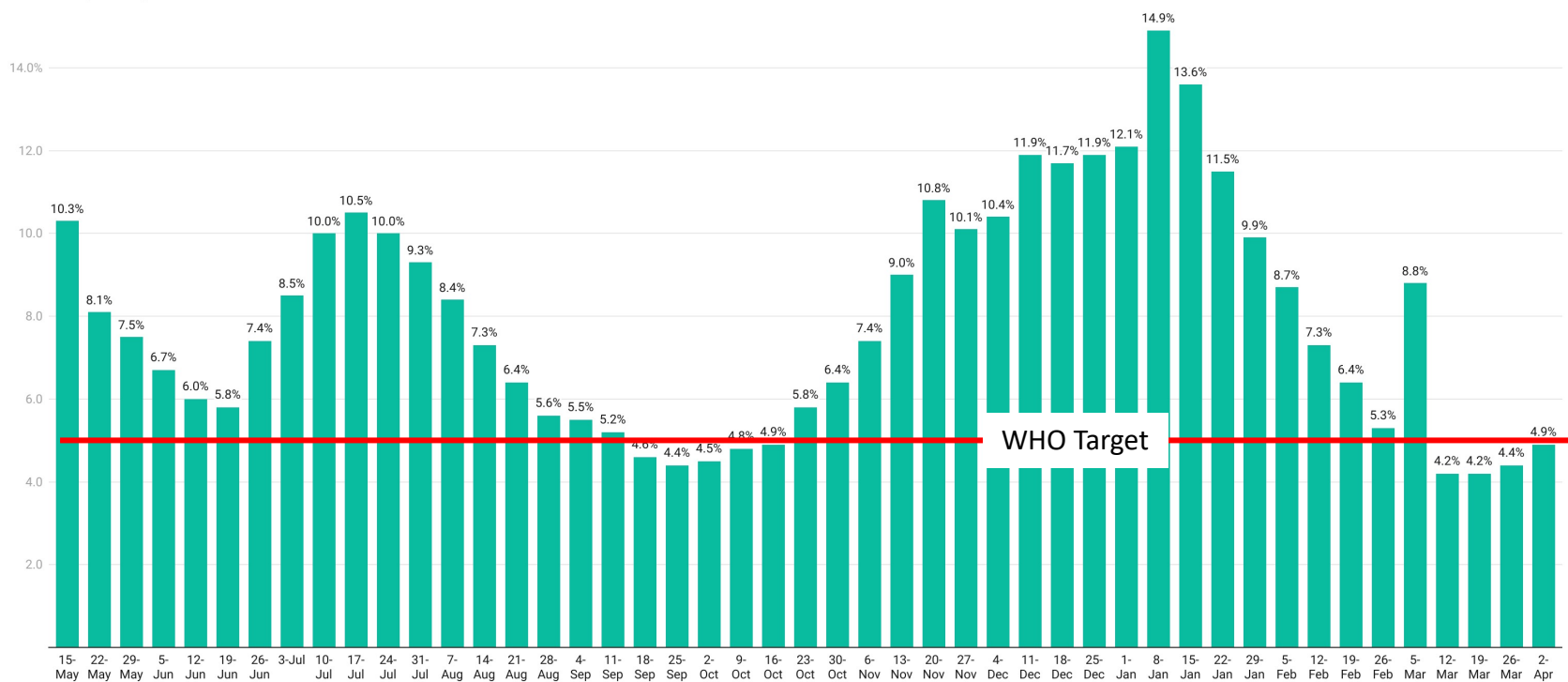


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper



Active Cases

The number of Active Cases dropped for the ninth straight week, as recoveries outpaced newly-detected cases again. There are fewer active cases now than anytime since early-December.

Current Active Cases - United States

For the 7 days ending on date shown

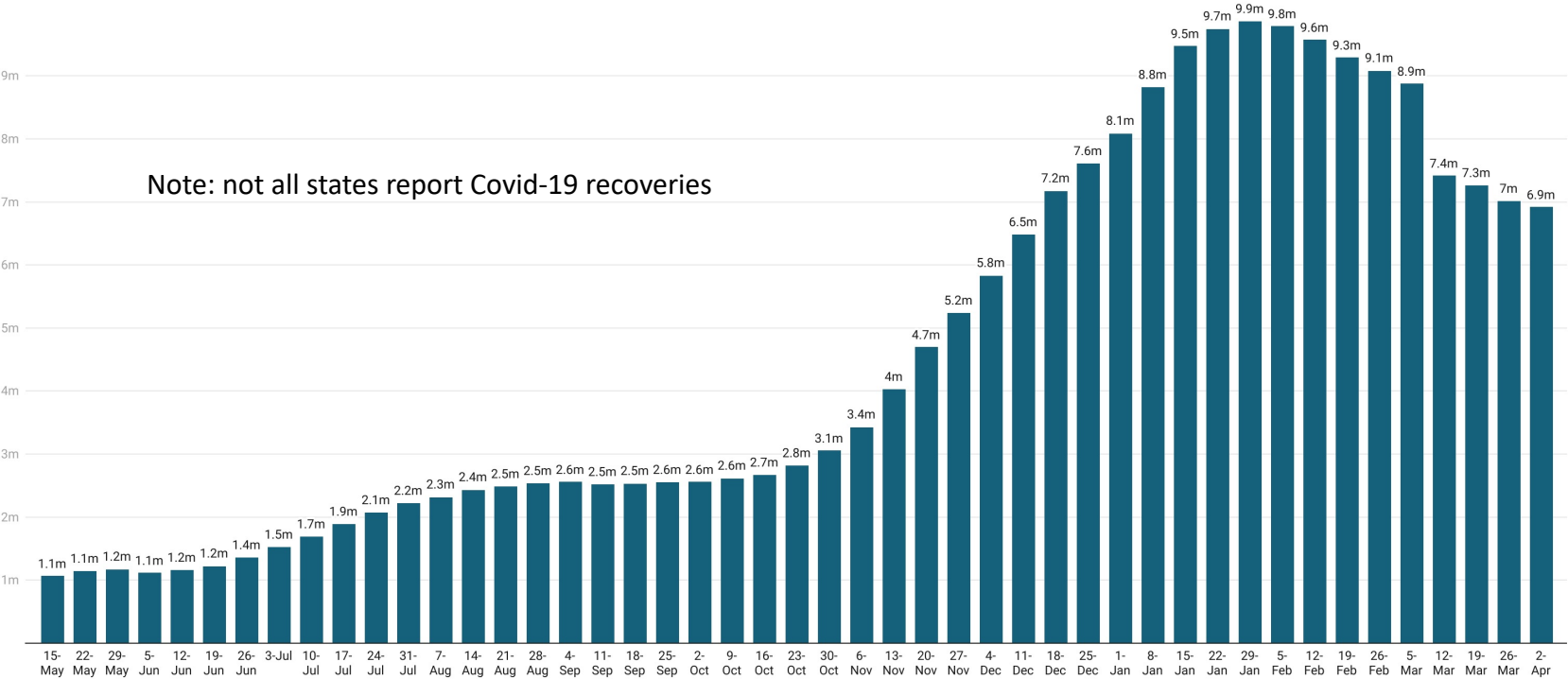


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

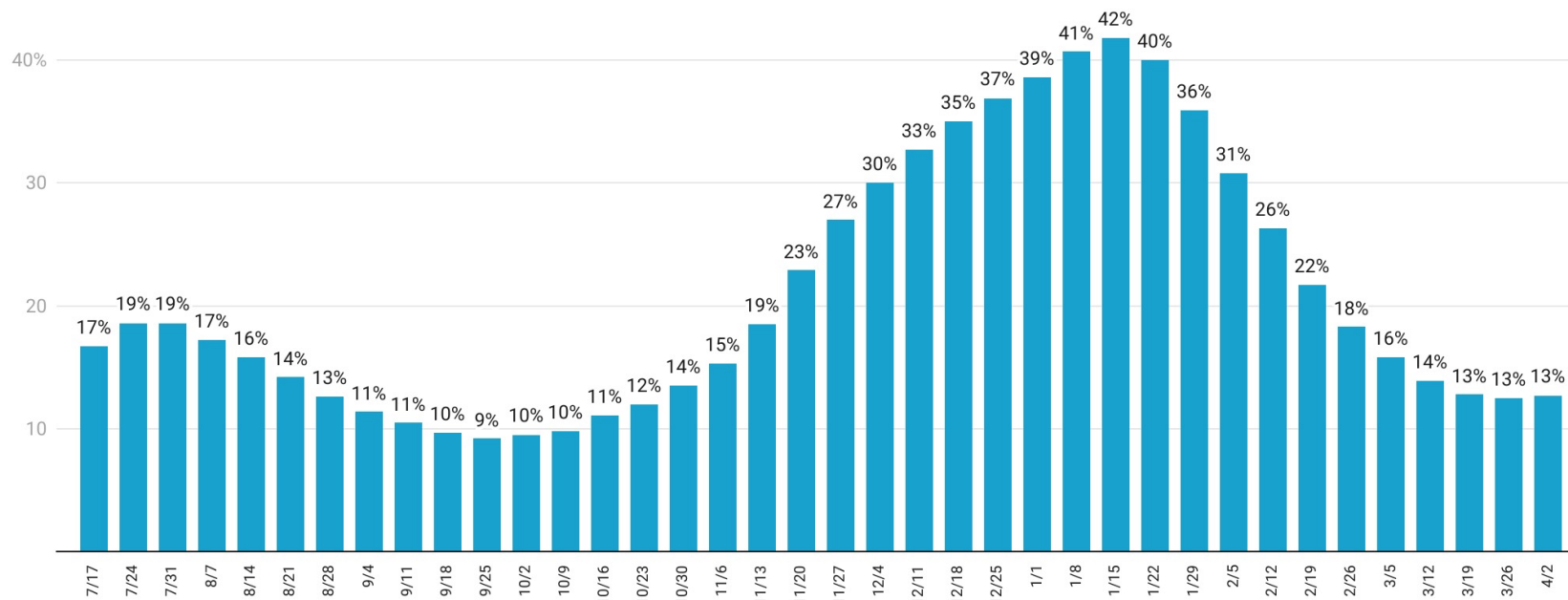
Covid-19 "Vital Signs"

Covid-19 Hospital Occupancy

Covid-19 occupancy inched higher last week yet remains lower than anytime from October through mid-March.

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

New York remains the only state where Covid-19 patients occupy more than four of every ten inpatient beds. In Connecticut and Maryland, Covid-19 patients occupy more than three of every ten beds. In Michigan, despite the surge in cases, these patients occupy one of every four beds.

Covid-19 Occupancy: % of Inpatient Beds By State

As of April 2

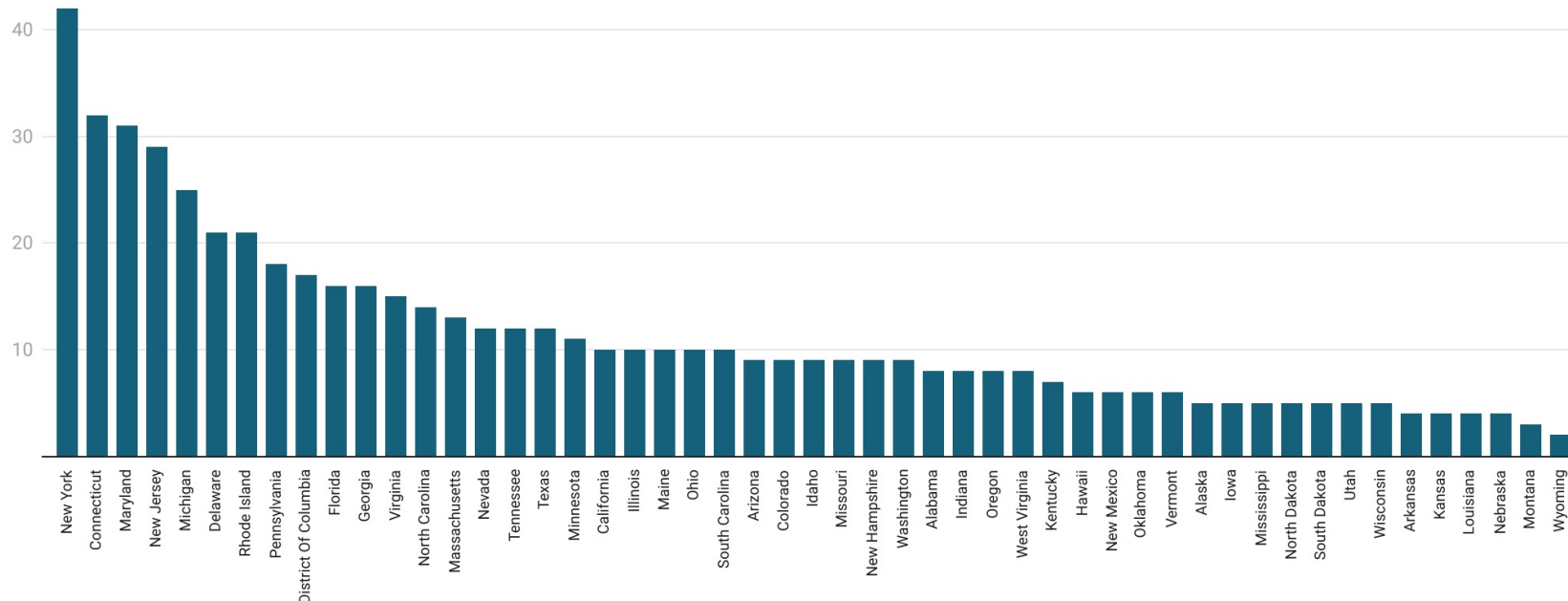


Chart: Health Industry Advisor LLC • Source: Centers for Disease Control & Prevention • Created with Datawrapper

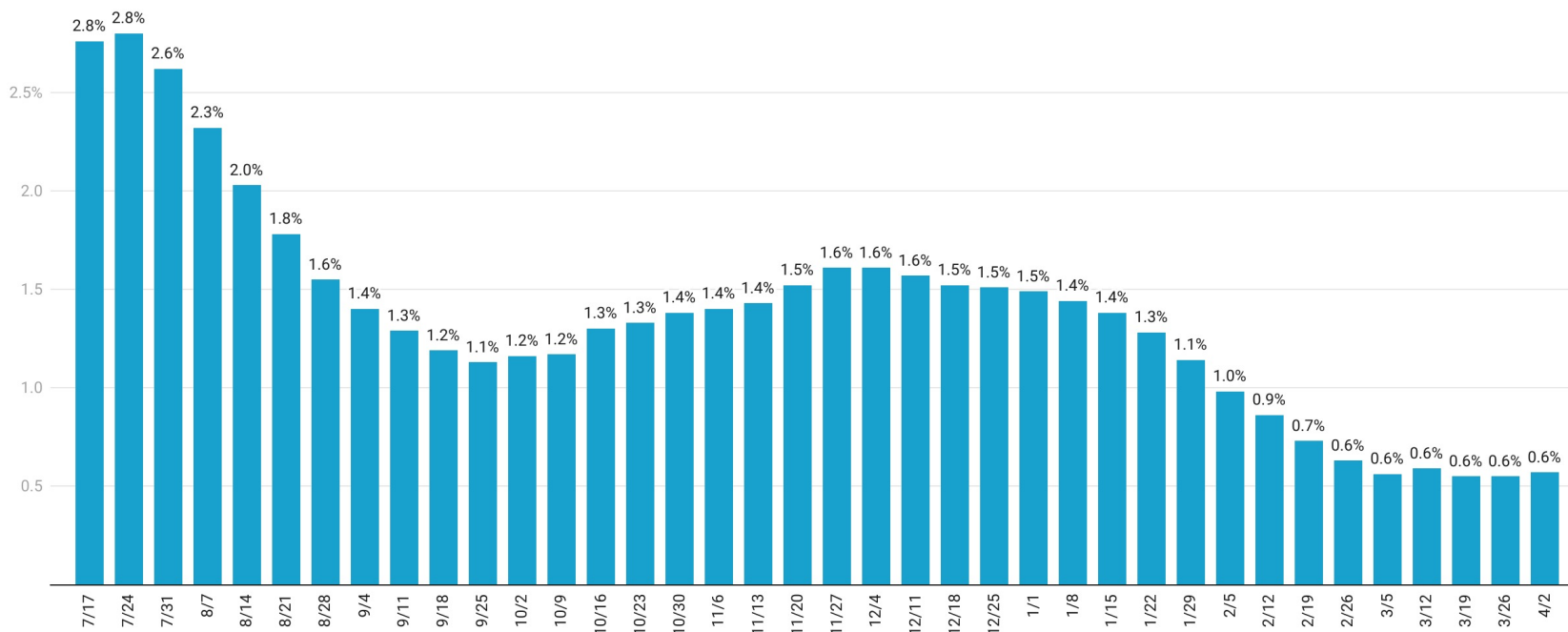
Covid-19 "Vital Signs"

Hospitalized Covid-19 Patients / Active Cases

Active Covid-19 cases increasingly are recovering outside hospitals – more so than at any other time during 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

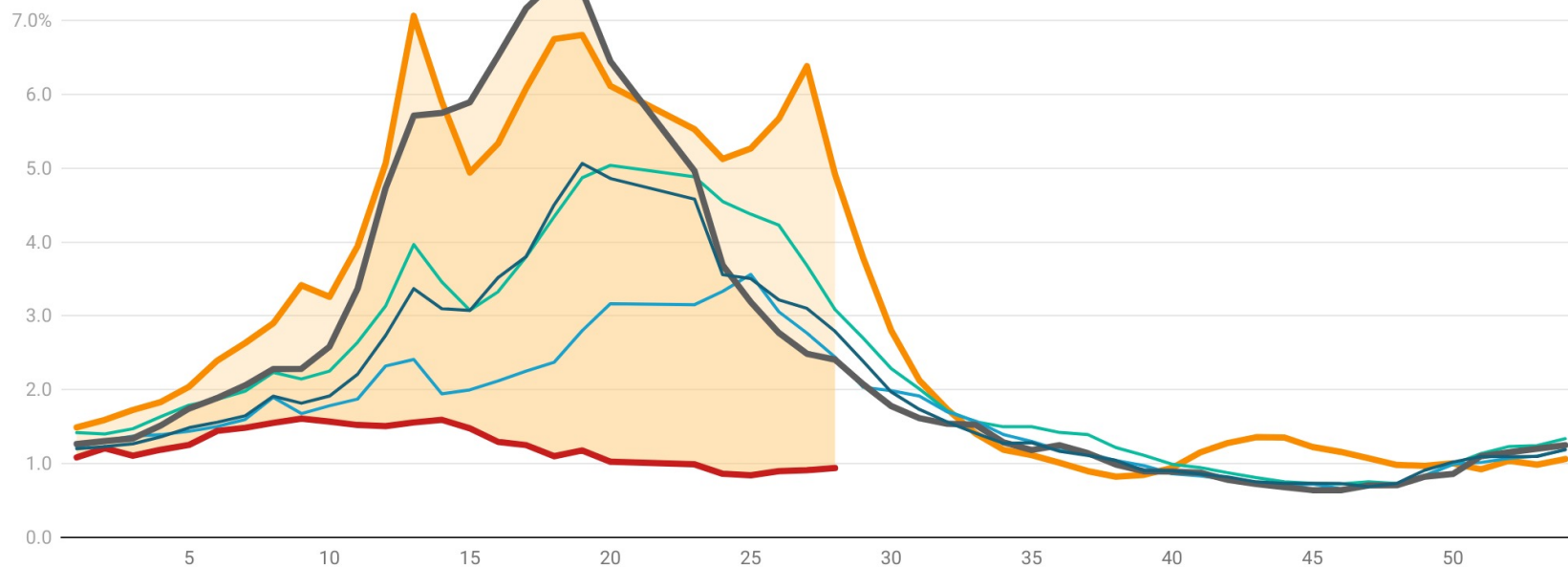


Chart: Health Industry Advisor LLC • Source: Centers for Disease Control & Prevention • Created with Datawrapper



Deaths With Coronavirus

Deaths with coronavirus dropped below 1,000 per day for the first time in five months

Weekly Deaths - United States

For the 7 days ending on date shown

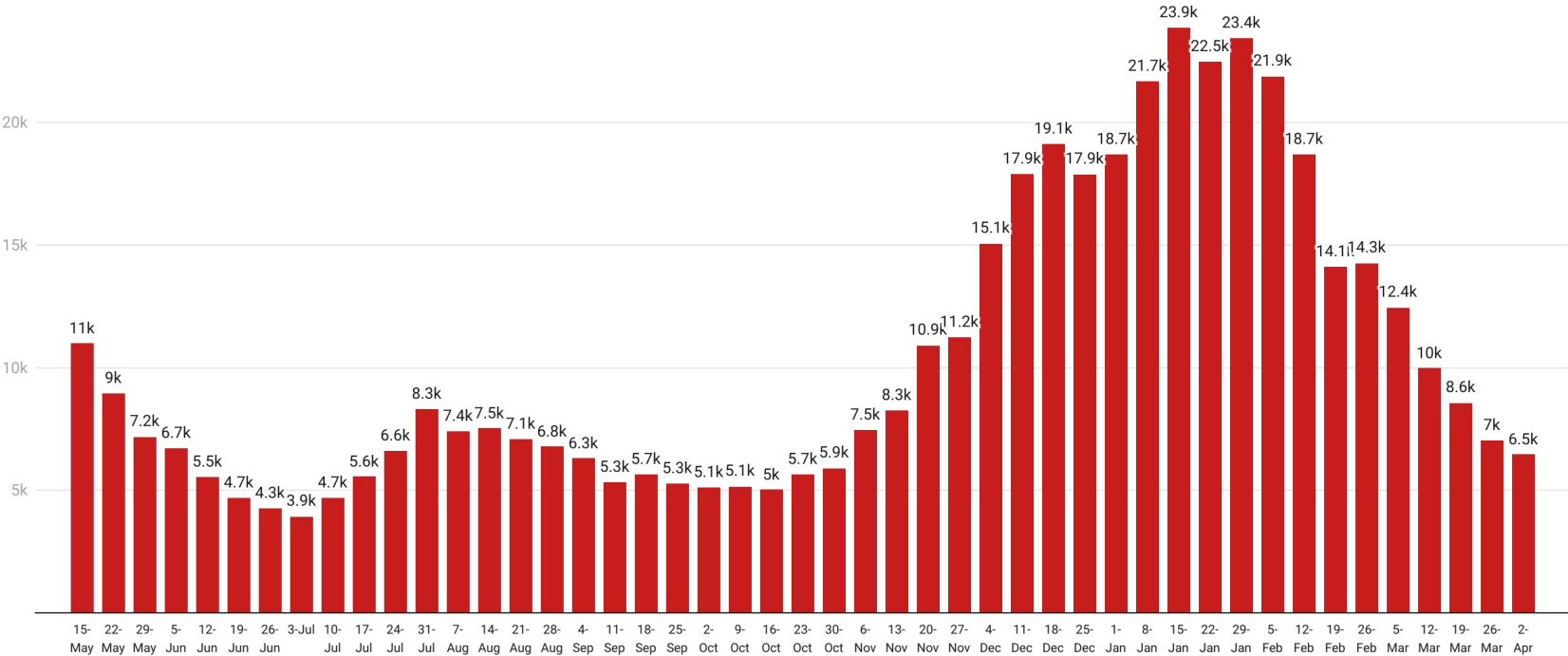


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

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>
- 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>