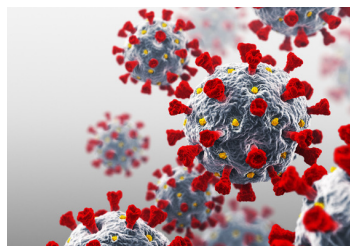


Covid-19 "Vital Signs"

Issue # 308

March 27, 2021



Covid-19 "Vital Signs"

Vaccination Status - US

Vaccinations surged last week, surpassing 137 million to-date. Vaccinations set a new 7-day high of 2.6 million and increasing an average of 8% weekly over the past three weeks.

U.S. Covid-19 Vaccinations - Weekly

7-Day Average, Through the Date Shown

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

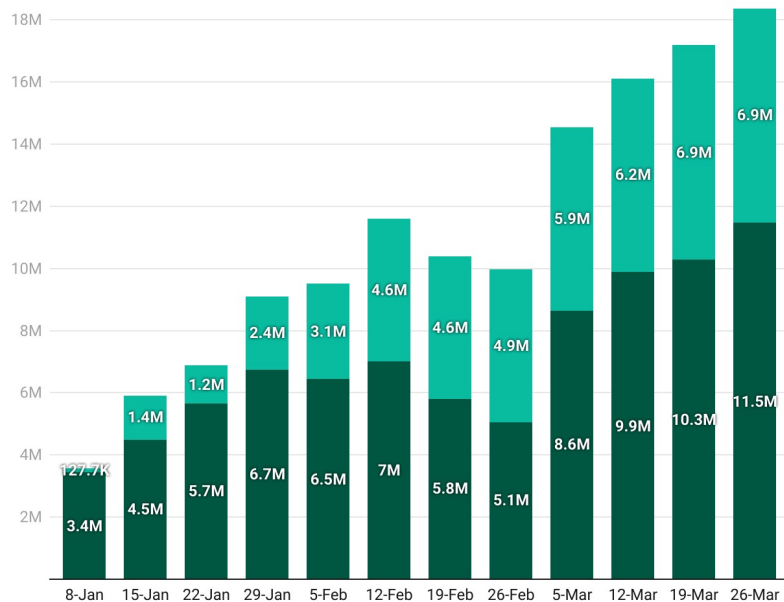


Chart: Health Industry Advisor • Source: Bloomberg • Created with Datawrapper

U.S. Covid-19 Vaccinations - Cumulative

As of the date shown

■ 1st of 2 Doses ■ Fully inoculated

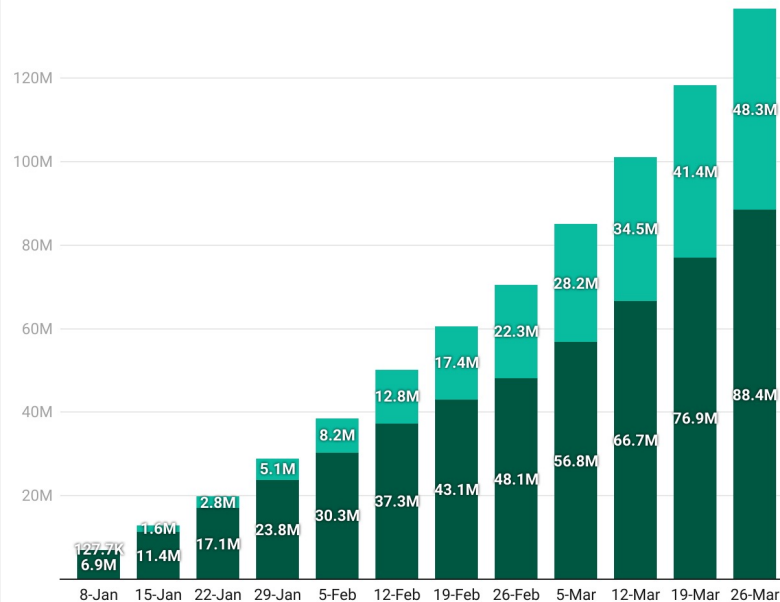


Chart: Health Industry Advisor LLC • Source: Bloomberg • Created with Datawrapper

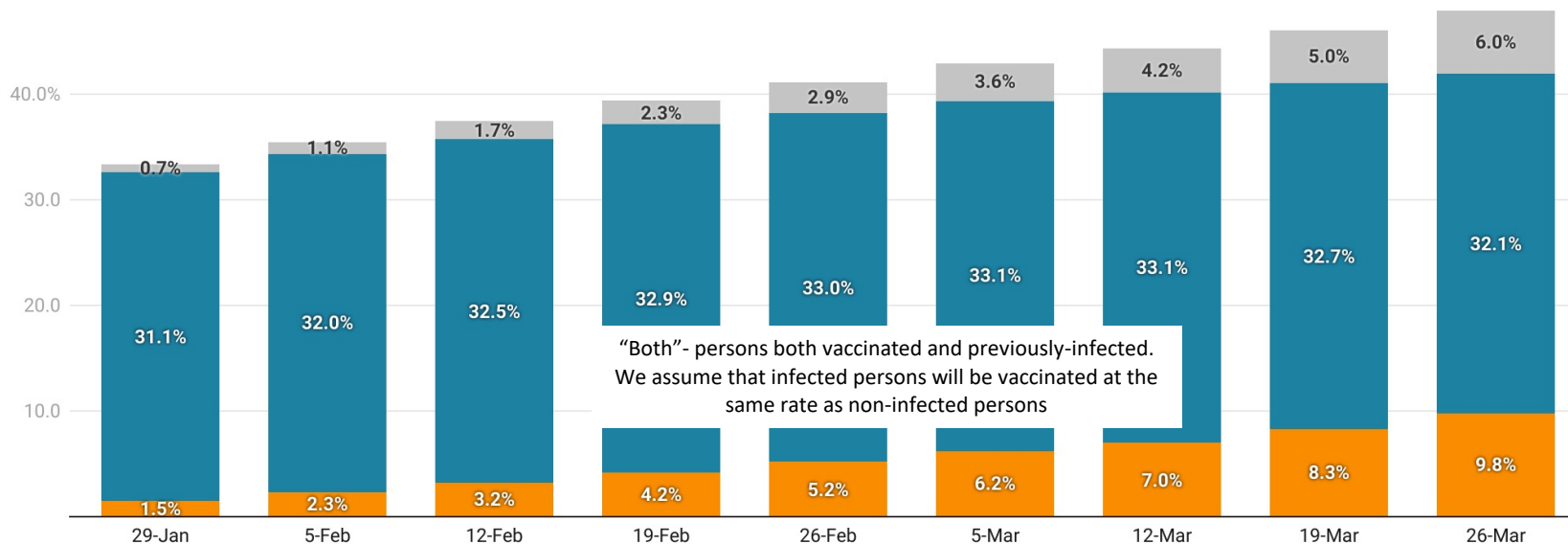
Estimated Immunity Status - US

Estimated immunity neared 48% 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

Covid-19 Testing

Test-positivity increased week-over-week yet remained below the WHO target and lower than all except two weeks during the pandemic.

Weekly Test-Positive% - United States

For the 7 days ending on date shown

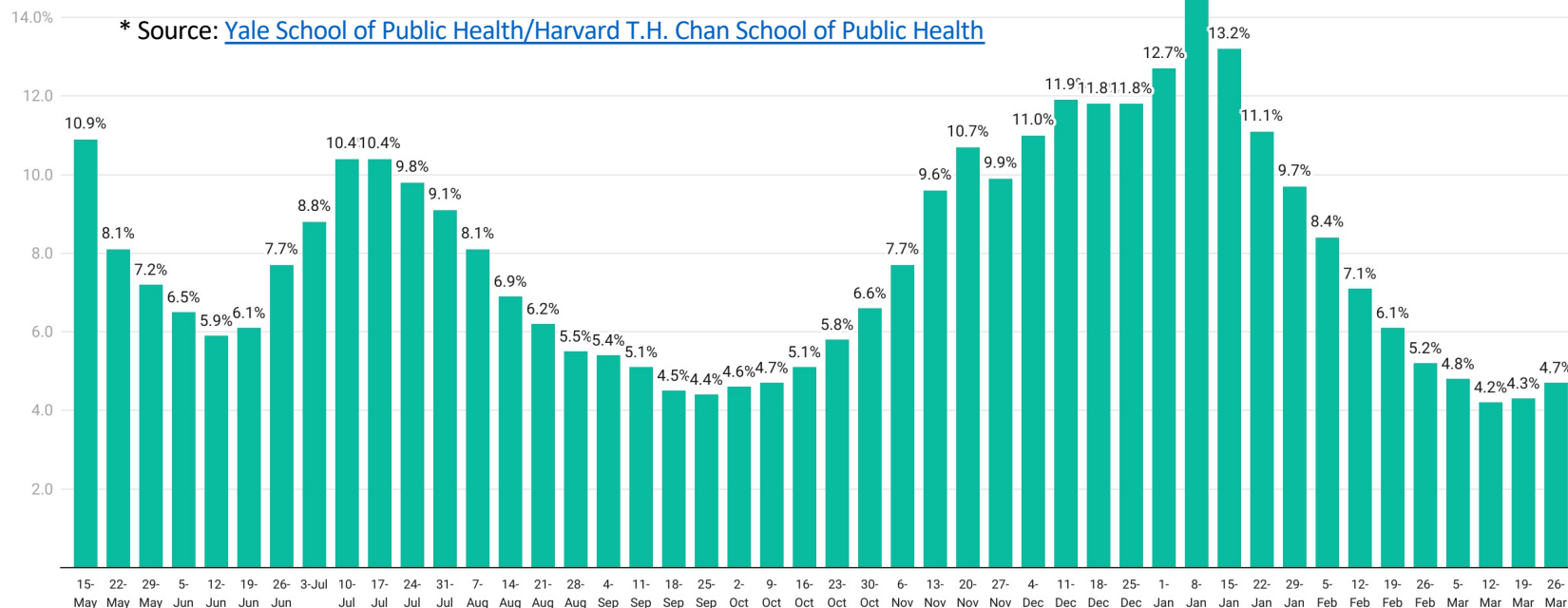


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper



Estimated Actual Infections – Yale/Harvard Model

Estimated infections increased slightly week-over-week, disrupting a ten-week pattern of declining infections.

Weekly New Estimated Infections - Yale/Harvard Model

For the 7 days ending on date shown

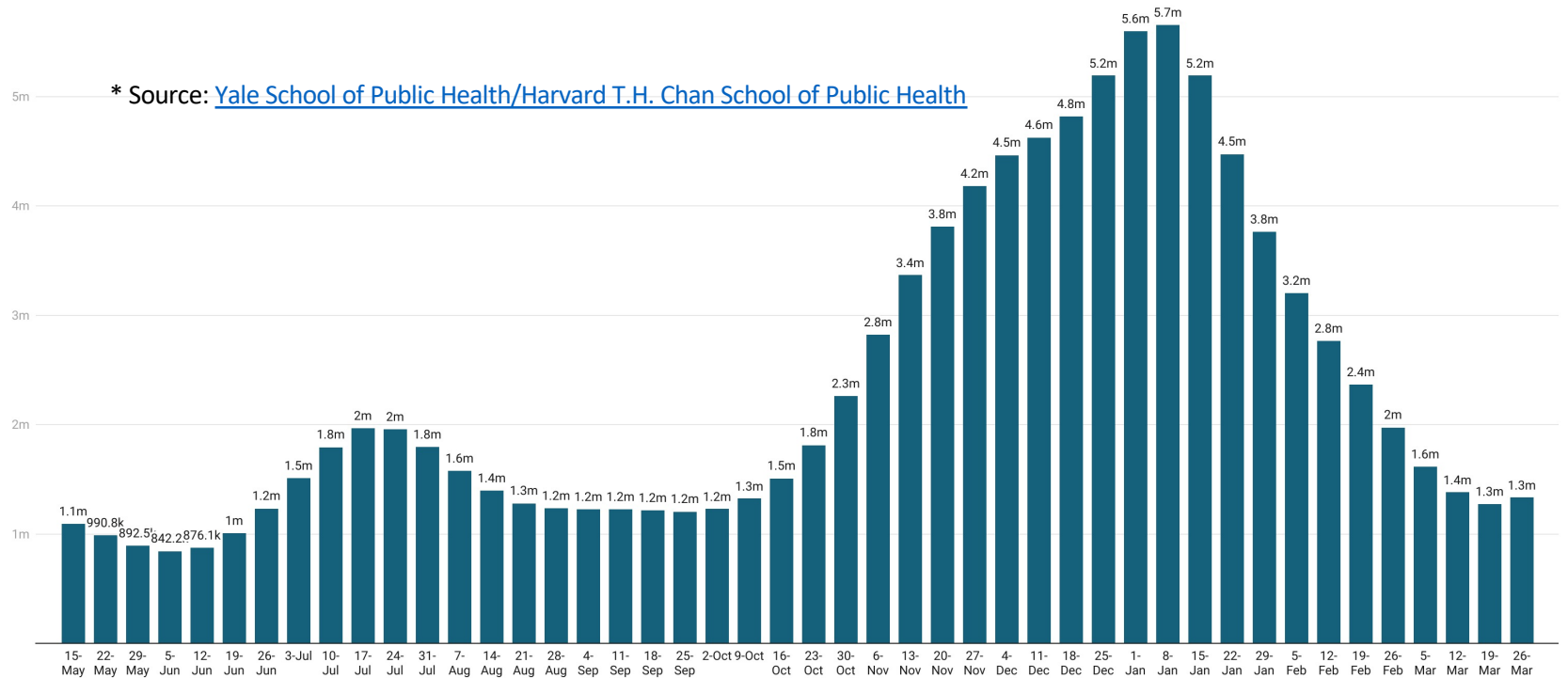


Chart: Health Industry Advisor LLC • Source: Yale and Harvard Schools of Public Health • Created with Datawrapper



Newly Detected Cases

New cases increased week-over-week, disrupting a ten-week streak of declining cases.

Weekly New Detected Cases - United States

For the 7 days ending on date shown

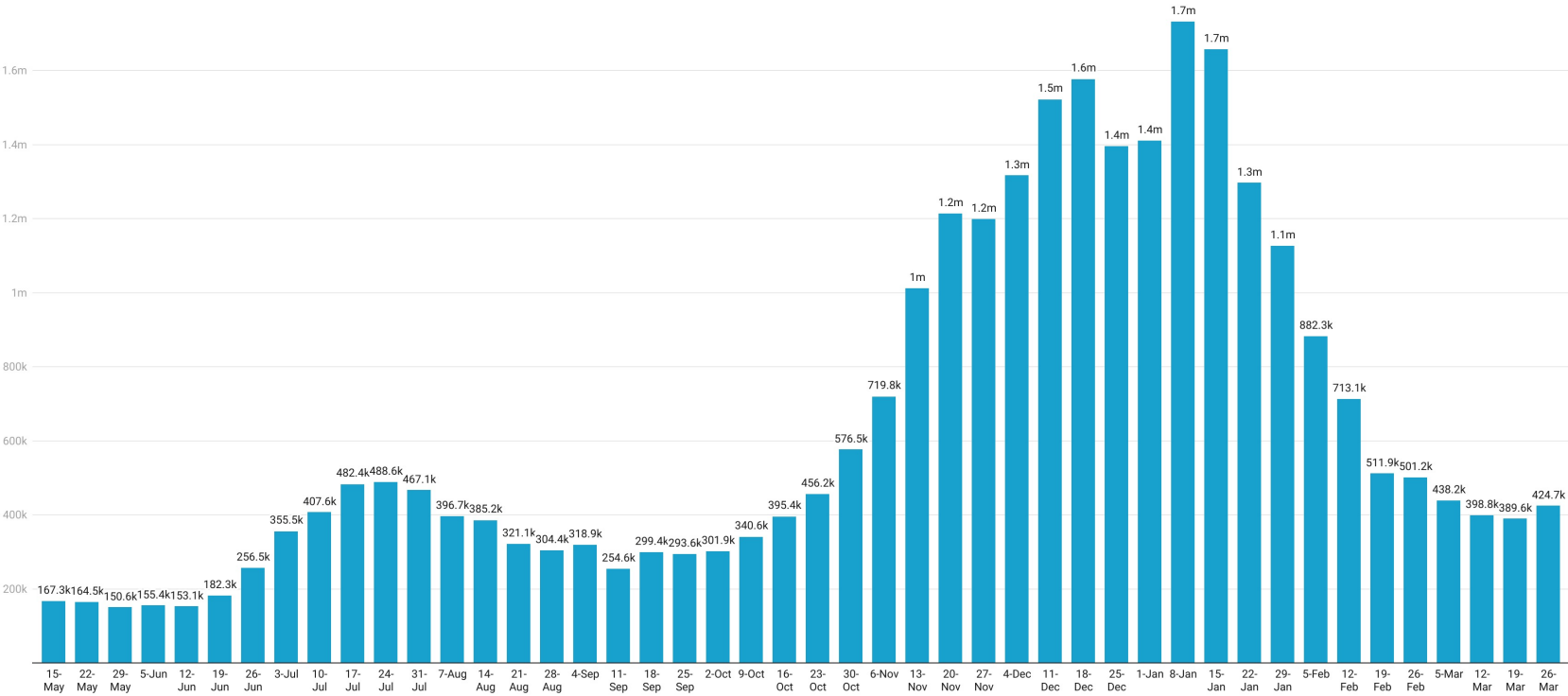


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Covid-19 "Vital Signs"

Newly Detected Cases - By State

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

New Weekly Detected Cases - By State

March 20 - March 26

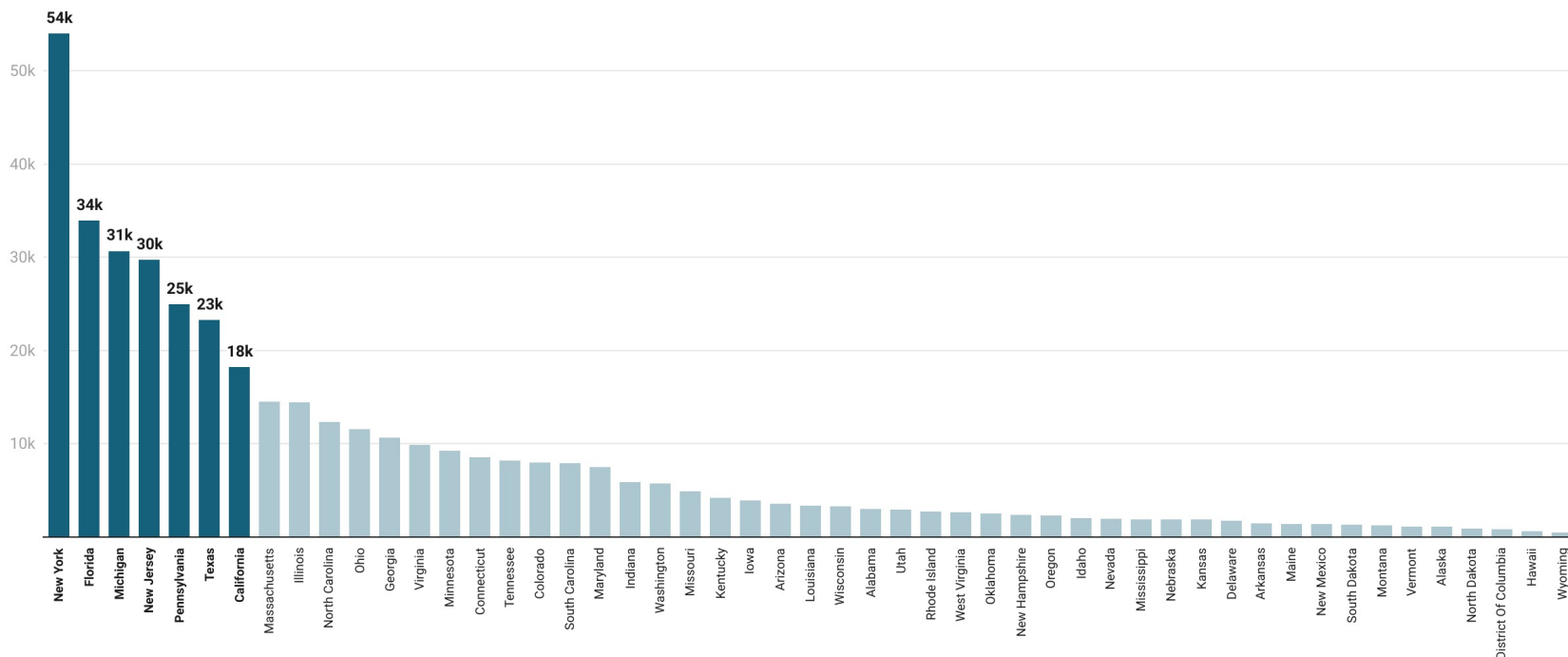


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Week-Over-Week Change in Newly Detected Cases

Michigan reported the largest week-over-week increase in new cases, followed by Pennsylvania. Texas and California reported the largest declines in new cases.

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

March 20-26 v. March 13-19

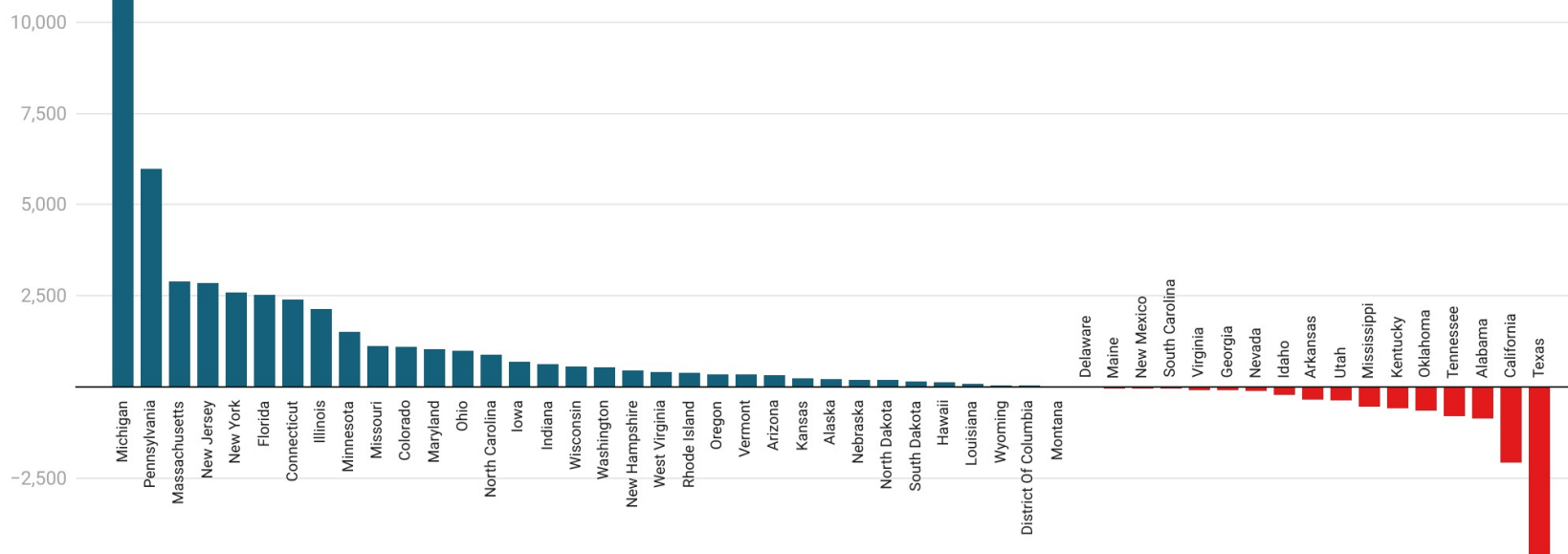


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Test Efficiency: Tests Per Case Detected

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

Weekly Tests / Newly Detected Case - United States

For the 7 days ending on date shown

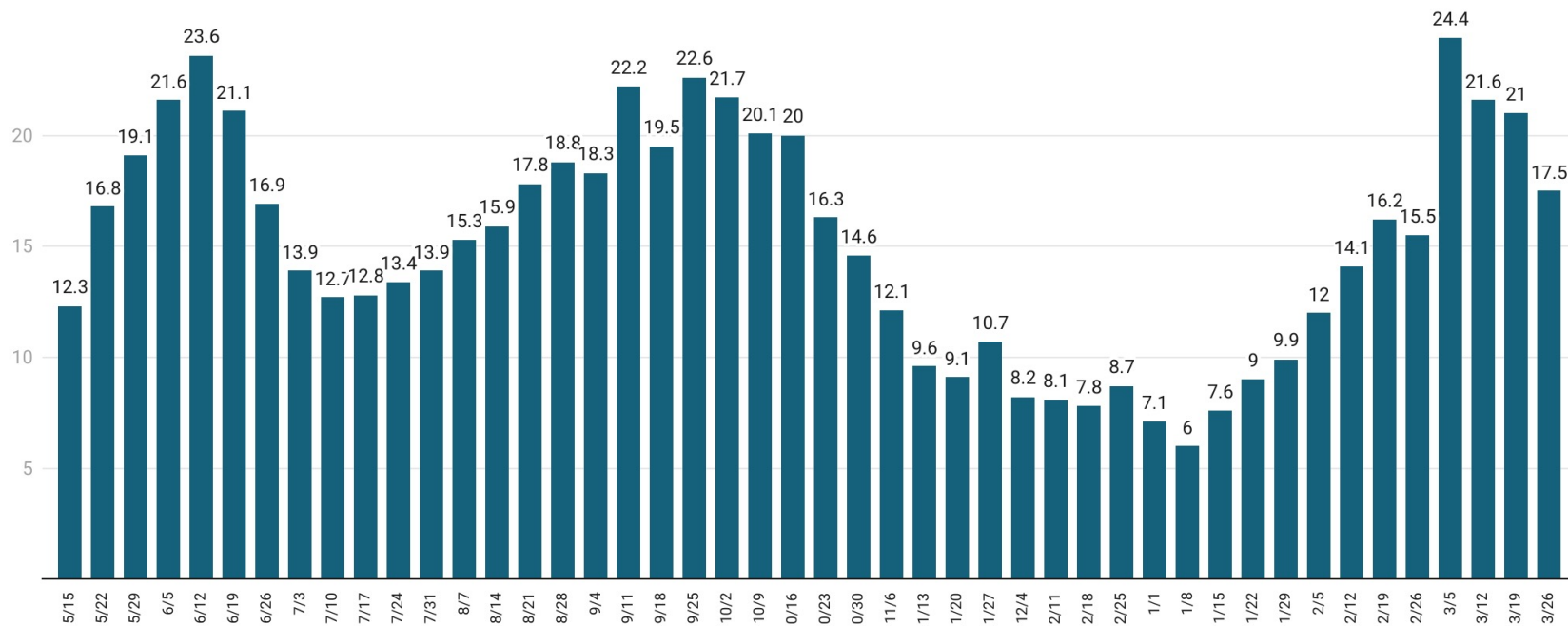


Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project & worldometers.info • Created with Datawrapper



Active Cases

The number of Active Cases dropped last week, as recoveries outpaced newly-detected cases. There are fewer active cases now than anytime since mid-December.

Current Active Cases - United States

For the 7 days ending on date shown

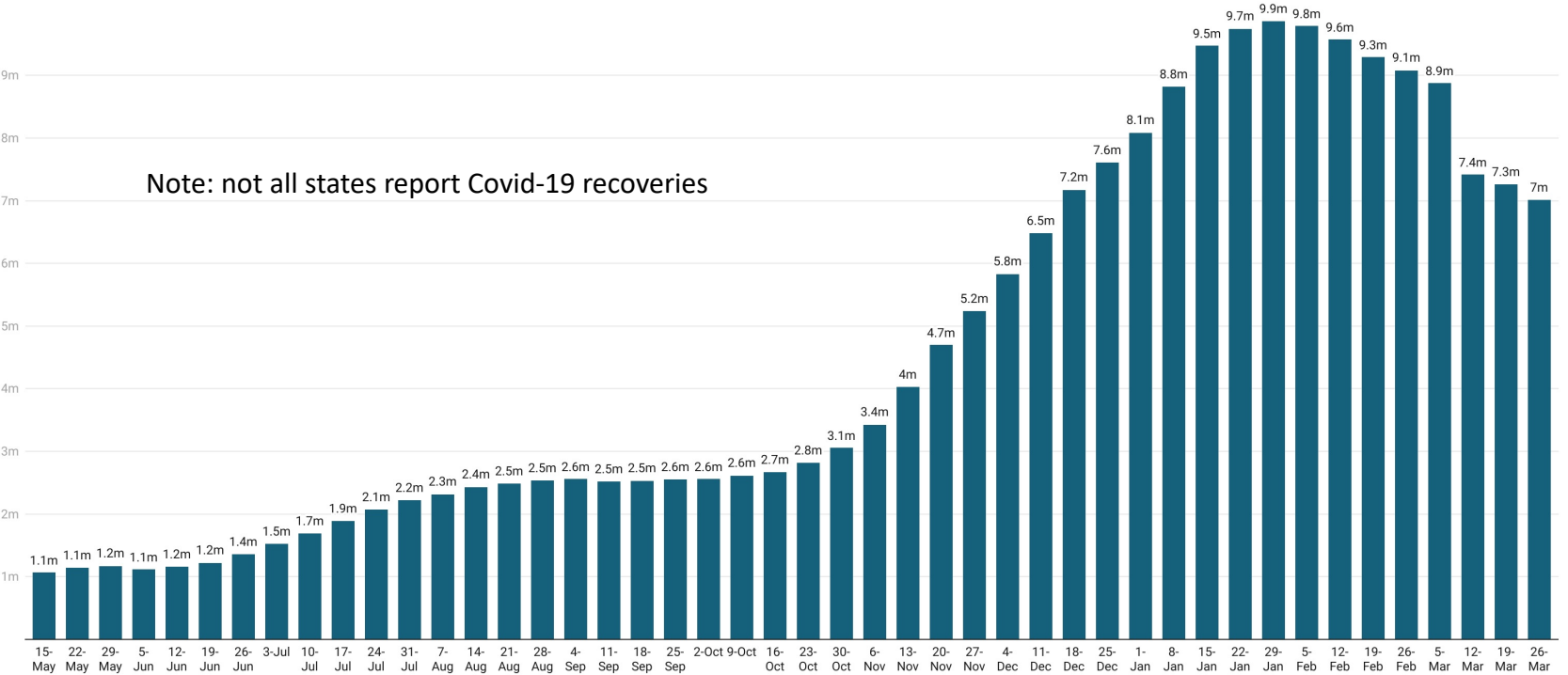


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Covid-19 "Vital Signs"

Covid-19 Hospital Occupancy

Covid-19 inpatient days declined last week but at a slower rate than any week the past two months.

Covid-19 Inpatient Days - United States

For the 7 days ending on date shown

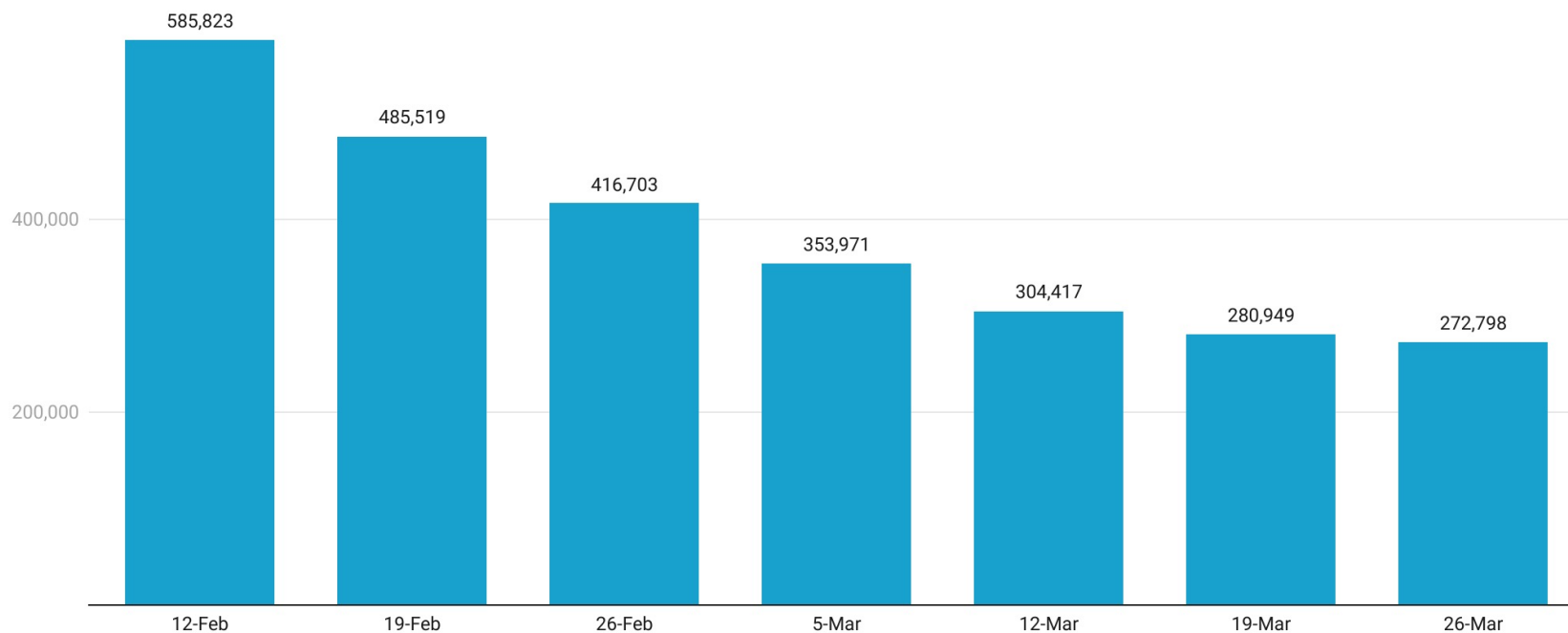


Chart: Health Industry Advisor LLC • Source: Department of Health & Human Services • Created with Datawrapper

Covid-19 "Vital Signs"

Covid-19 Hospital Occupancy

Michigan posted a large week-over-week increase in Covid-19 patient days. Connecticut, Maryland, and New Jersey also posted significant week-over-week increases in Covid-19 patients.

Week-Over-Week Change In Covid-19 Hospital Census - By State

March 20-26 v. March 13-19

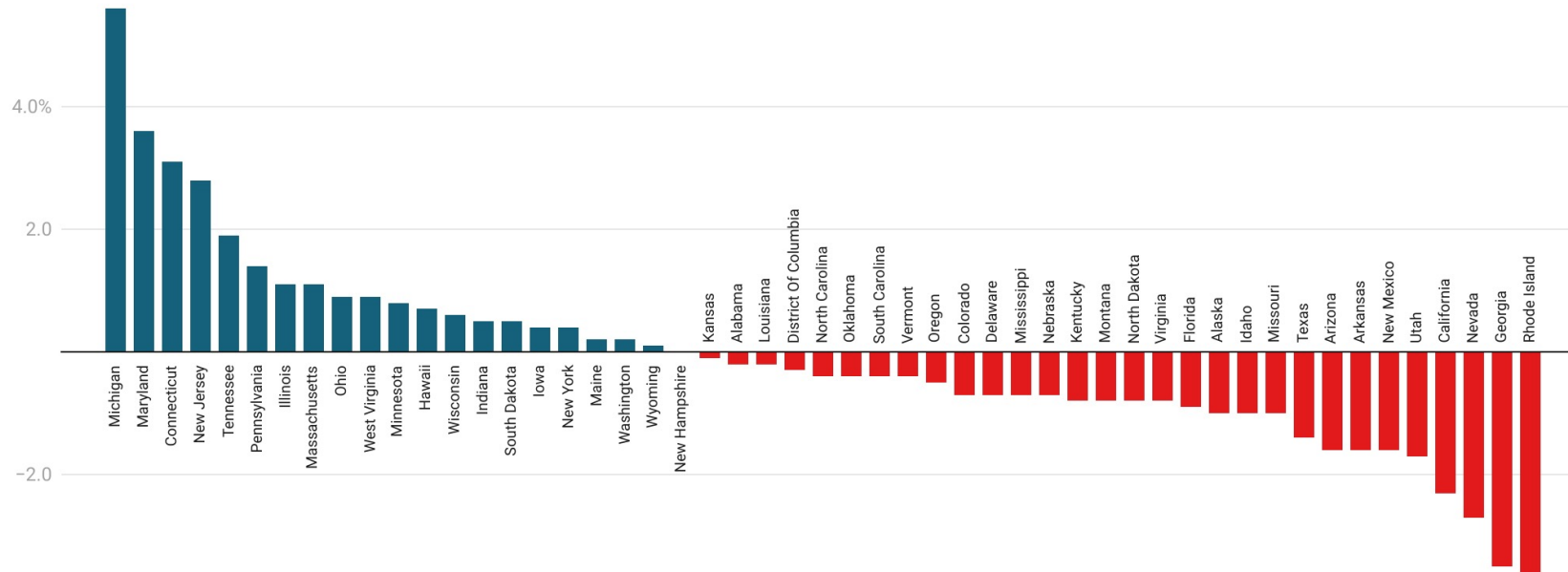


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

% 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

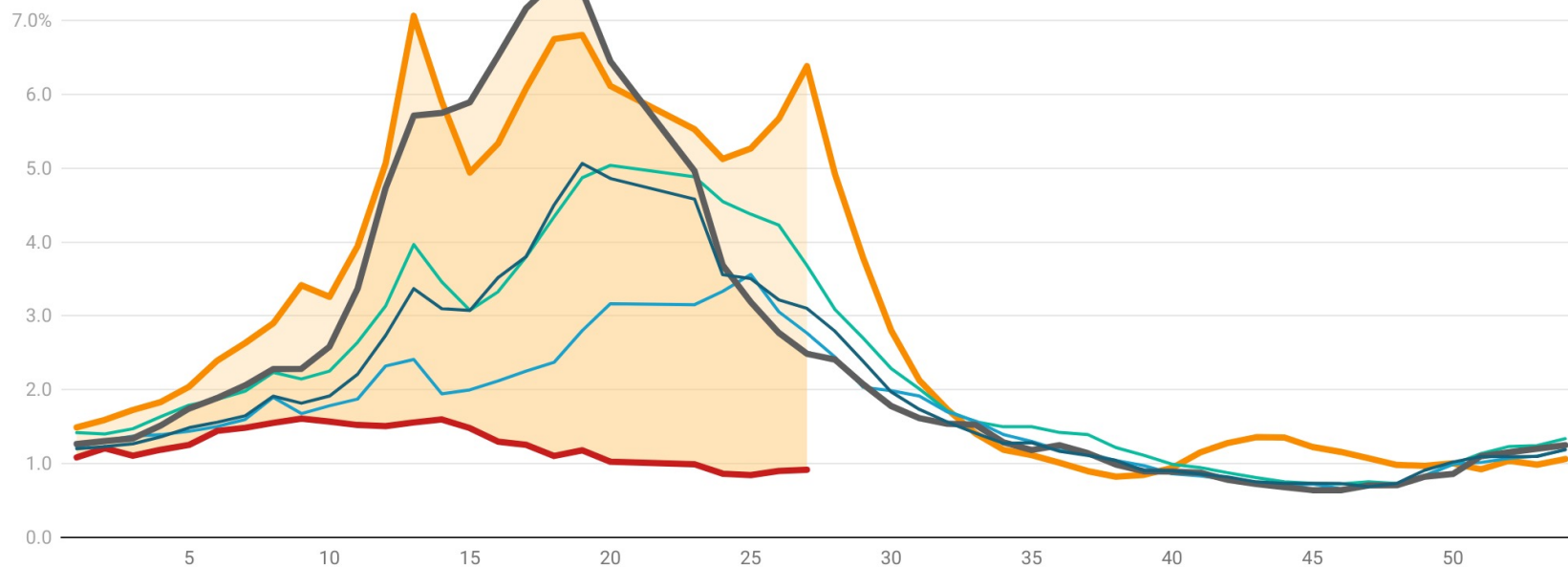


Chart: Health Industry Advisor LLC • Source: Centers for Disease Control & Prevention • Created with Datawrapper

Covid-19 "Vital Signs"

Deaths With Coronavirus

There were fewer deaths with coronavirus last week than during any week since October. Deaths have declined seven of the last eight weeks.

Weekly Deaths - United States

For the 7 days ending on date shown

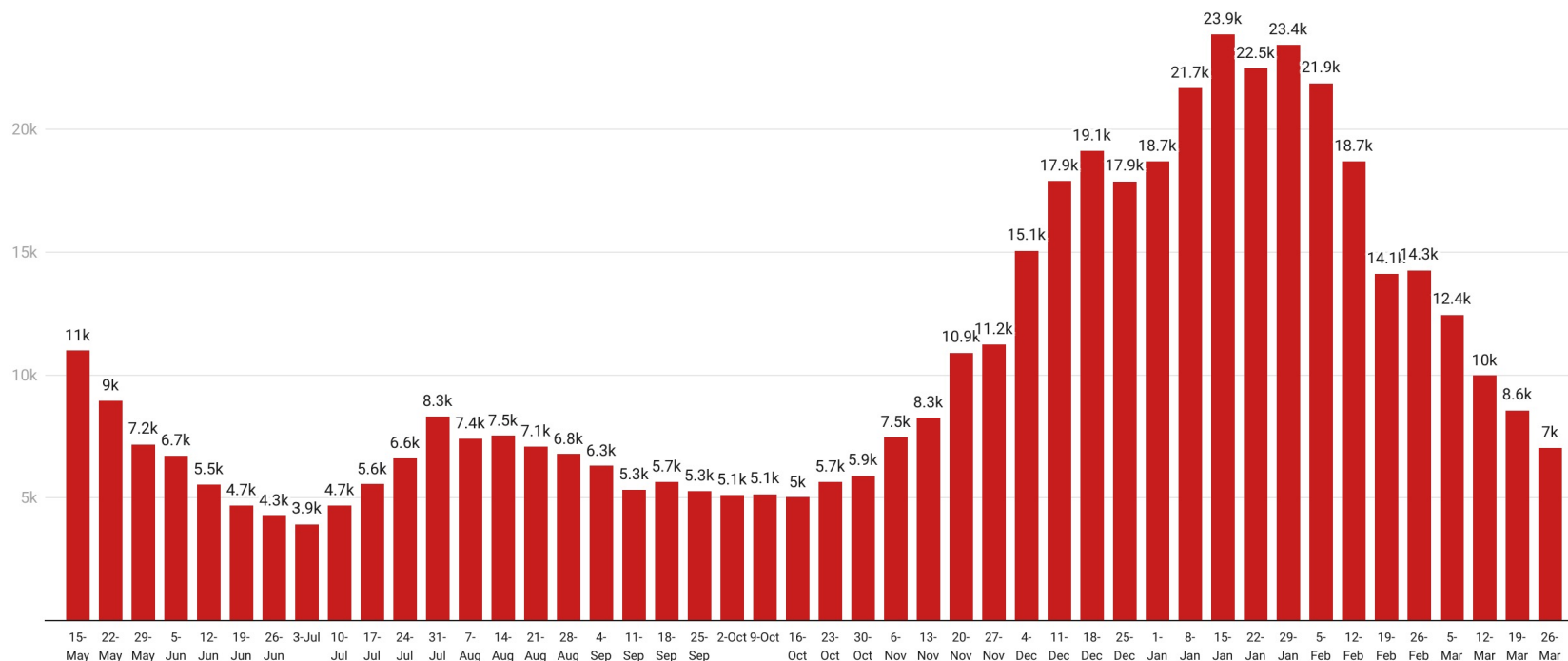


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

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>
- 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>