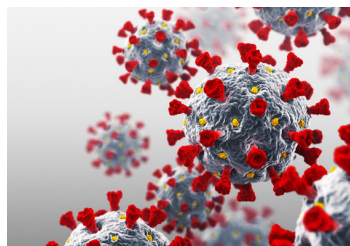


Covid-19 "Vital Signs"

Issue # 304

March 20, 2021



Covid-19 "Vital Signs"

Vaccination Status - US

An average of 2.6 million Americans received a jab each day last week. The vaccination rate increased by an average of nearly 9% per week over the past two weeks. 41.4 million Americans are fully inoculated from Covid-19.

U.S. Covid-19 Vaccinations - Weekly

7-Day Average, Through the Date Shown

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

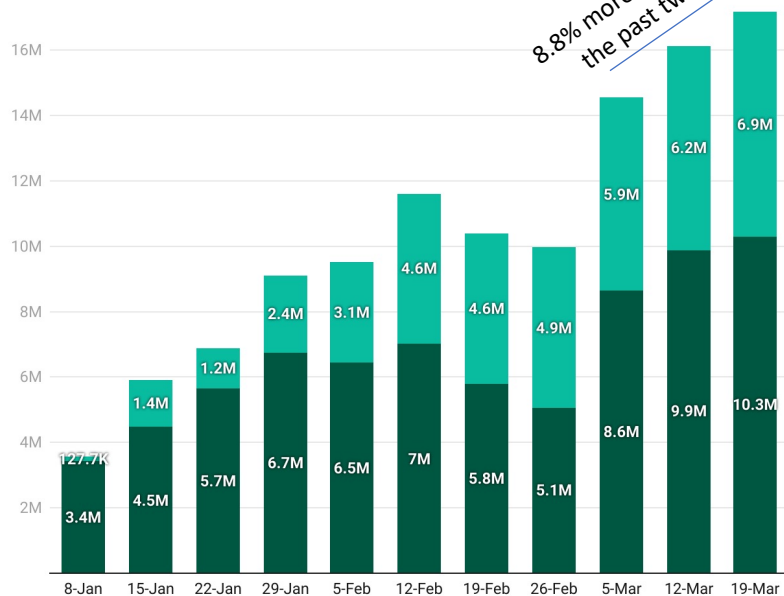


Chart: Health Industry Advisor • Source: Bloomberg • Created with Datawrapper

U.S. Covid-19 Vaccinations - Cumulative

As of the date shown

■ 1st of 2 Doses ■ Fully inoculated

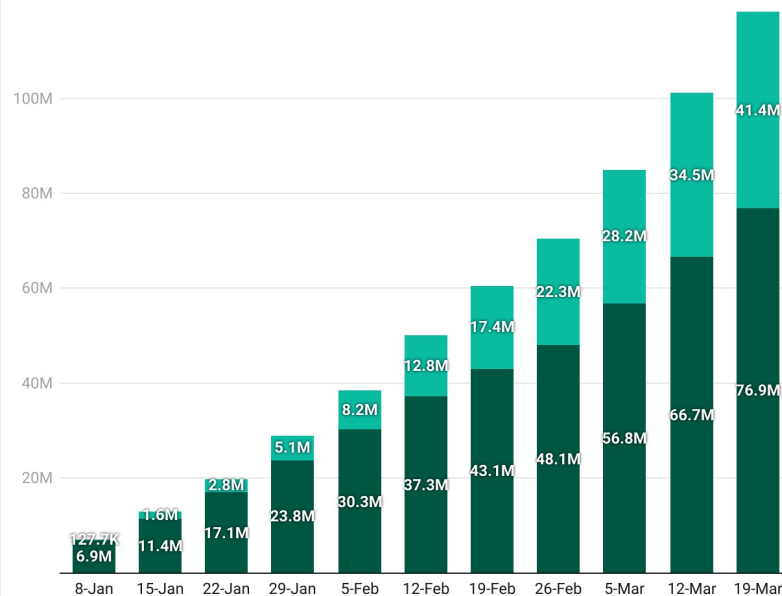


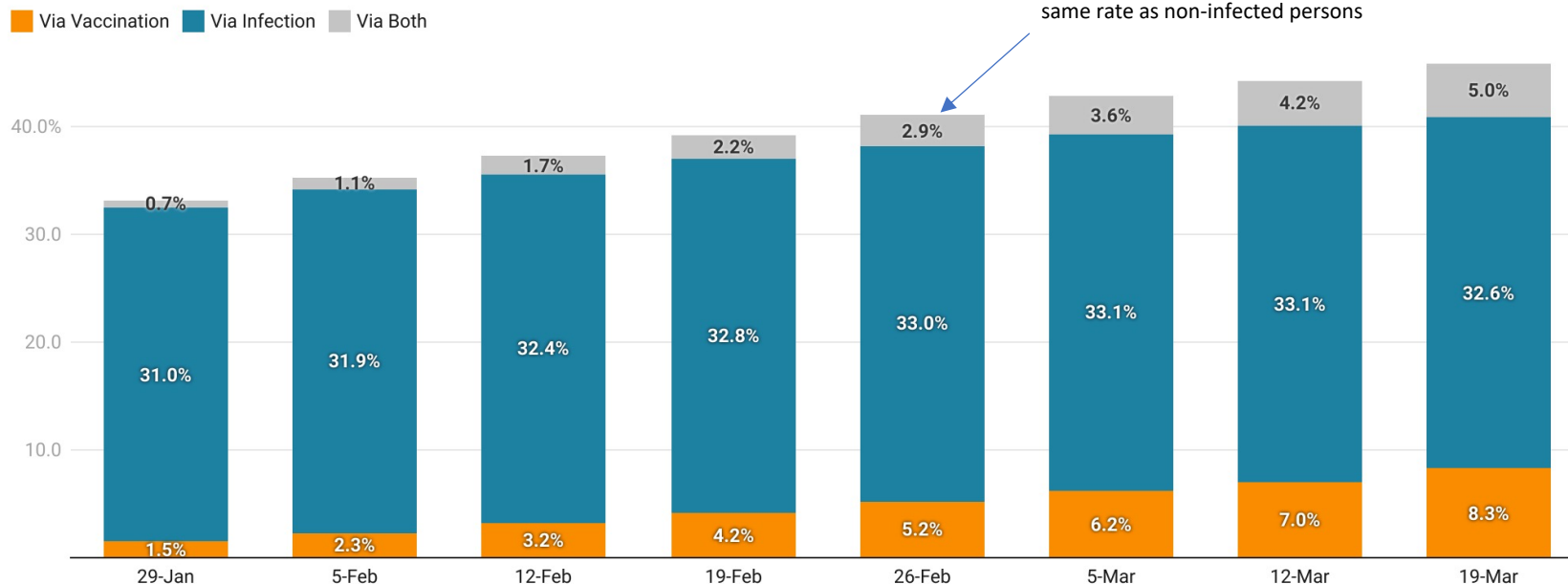
Chart: Health Industry Advisor LLC • Source: Bloomberg • Created with Datawrapper

Estimated Immunity Status - US

Nearly 47% of the US population may have immunity from Covid-19, from either a prior infection or an injection.

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

Immunity estimates based on vaccine efficacy and presumed two-week lag from infection or injection to immunity.

Covid-19 "Vital Signs"

Newly Detected Cases

New cases dropped for the tenth straight week and were lower than any week since early October. Despite plunging to less than one-fourth of the mid-January peak, new cases remain 2.5 times the late-May 2020 low.

Weekly New Detected Cases - United States

For the 7 days ending on date shown

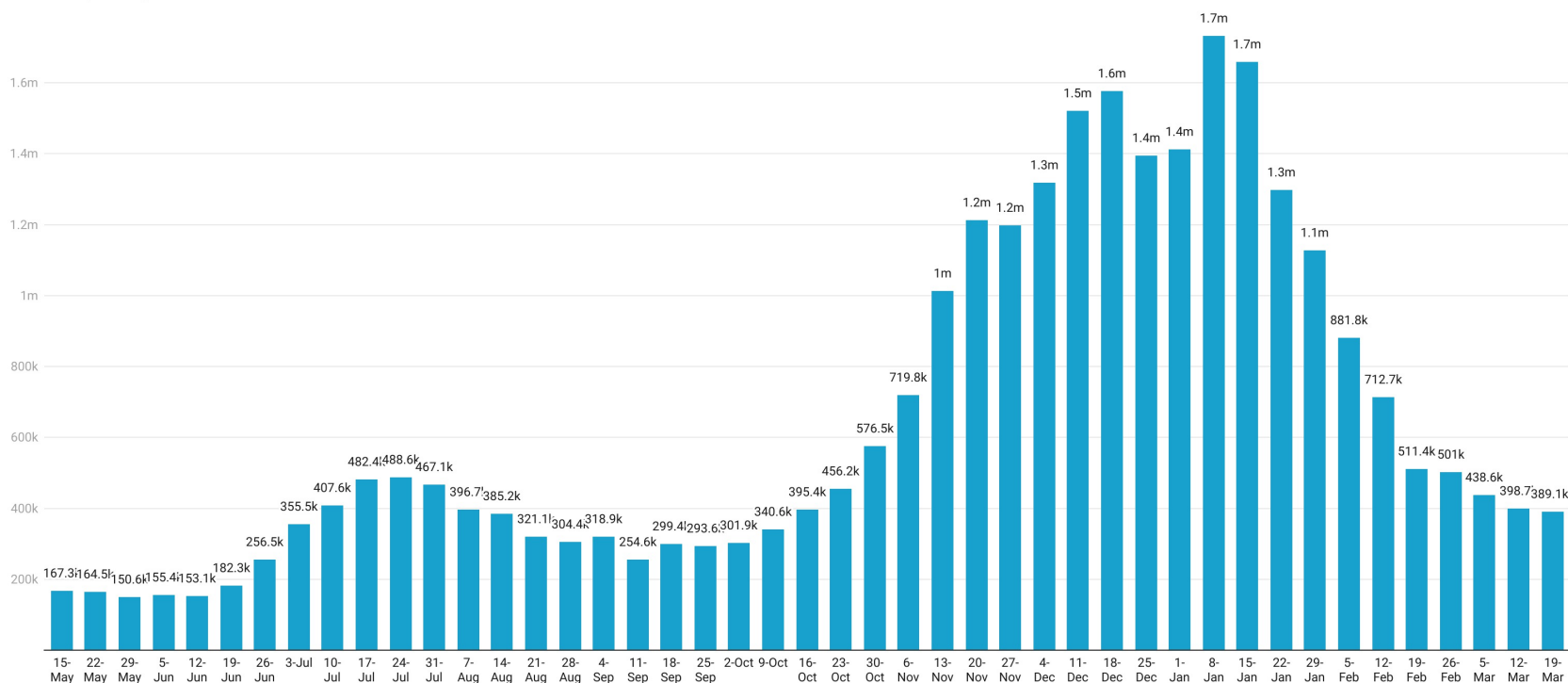


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Covid-19 Testing

Test-positivity registered lower each of the past two weeks than for any other time during the pandemic.

Weekly Test-Positive% - United States

For the 7 days ending on date shown

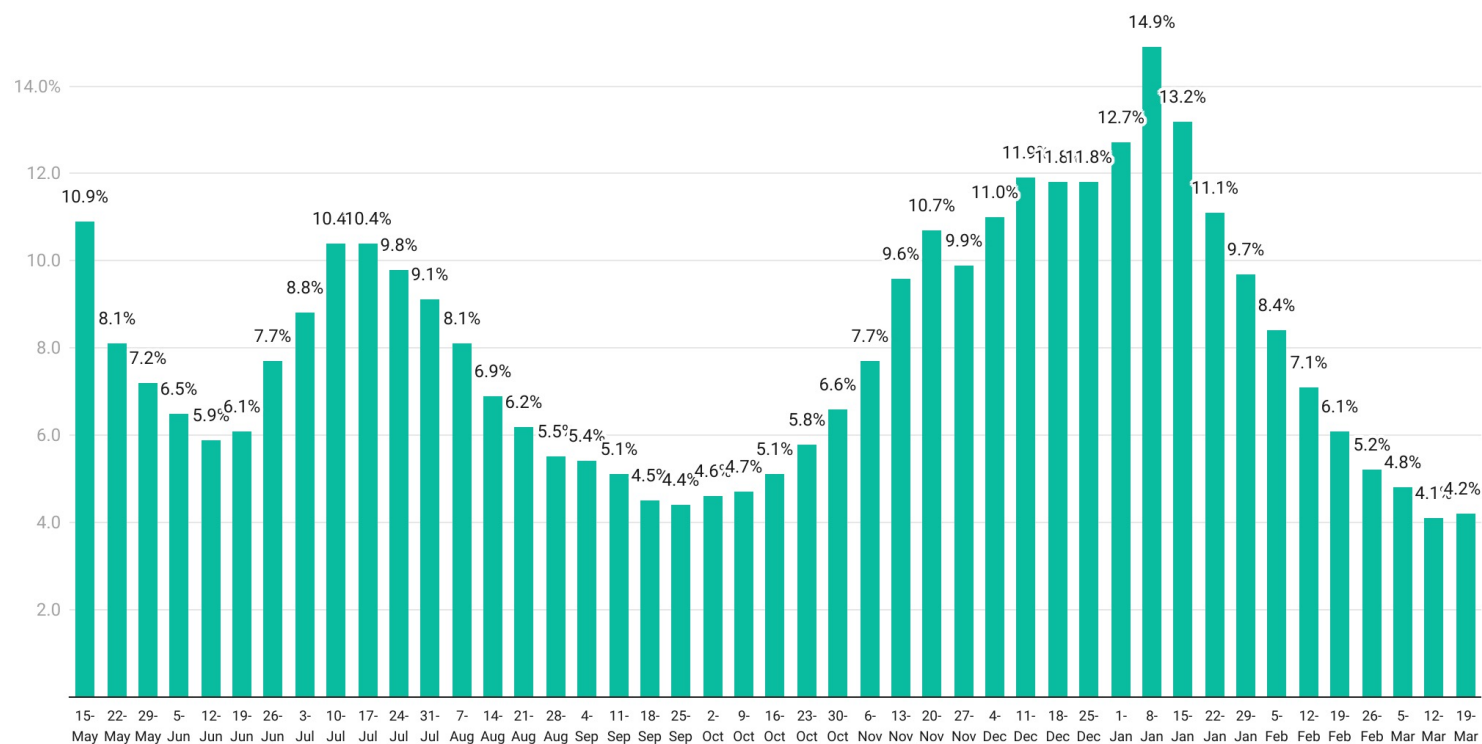


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper

Test Efficiency: Tests Per Case Detected

Despite declining on successive weeks, test efficiency remained at a relative high rate by pandemic-levels.

Weekly Tests / Newly Detected Case - United States

For the 7 days ending on date shown

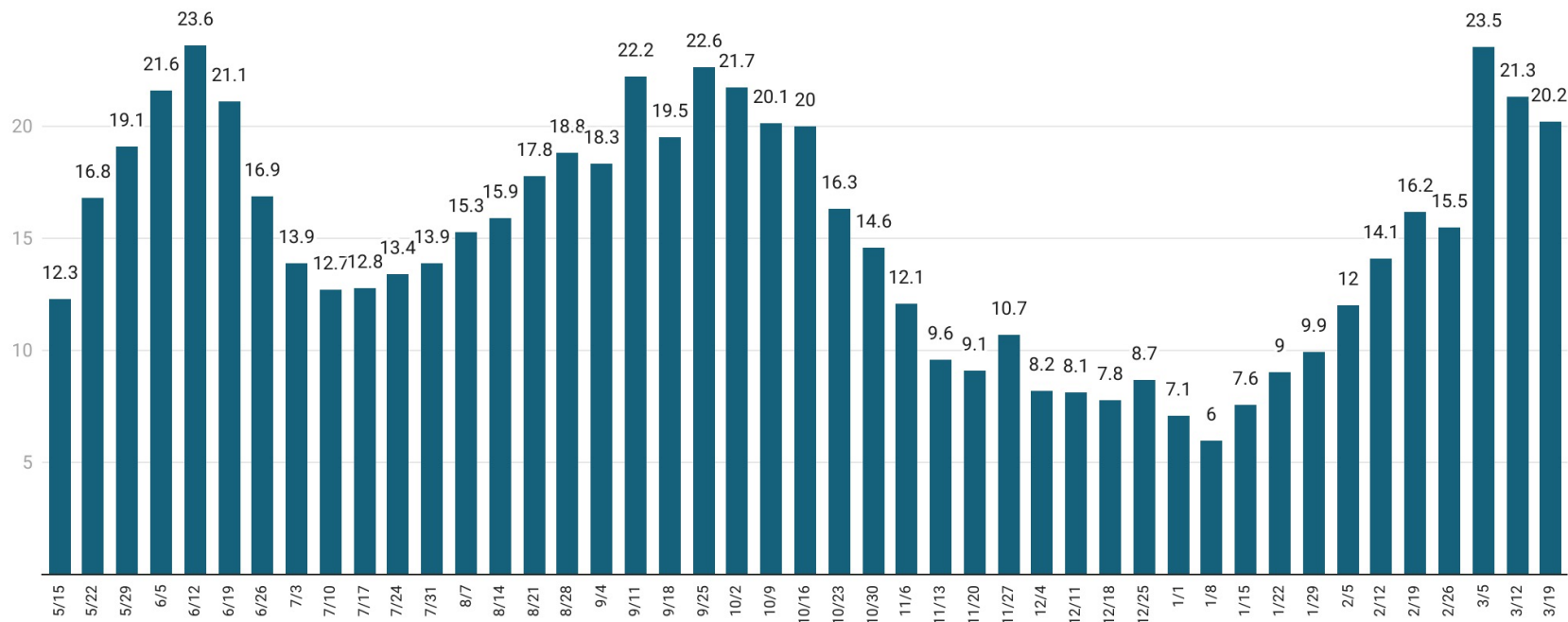


Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project & worldometers.info • Created with Datawrapper



Estimated Actual Infections – Yale/Harvard Model

Estimated infections dropped for the tenth straight week. Only briefly in early June were there fewer estimated infections in the U.S. than last week.

Weekly New Estimated Infections - Yale/Harvard Model

For the 7 days ending on date shown

* Source: [Yale School of Public Health/Harvard T.H. Chan School of Public Health](#)

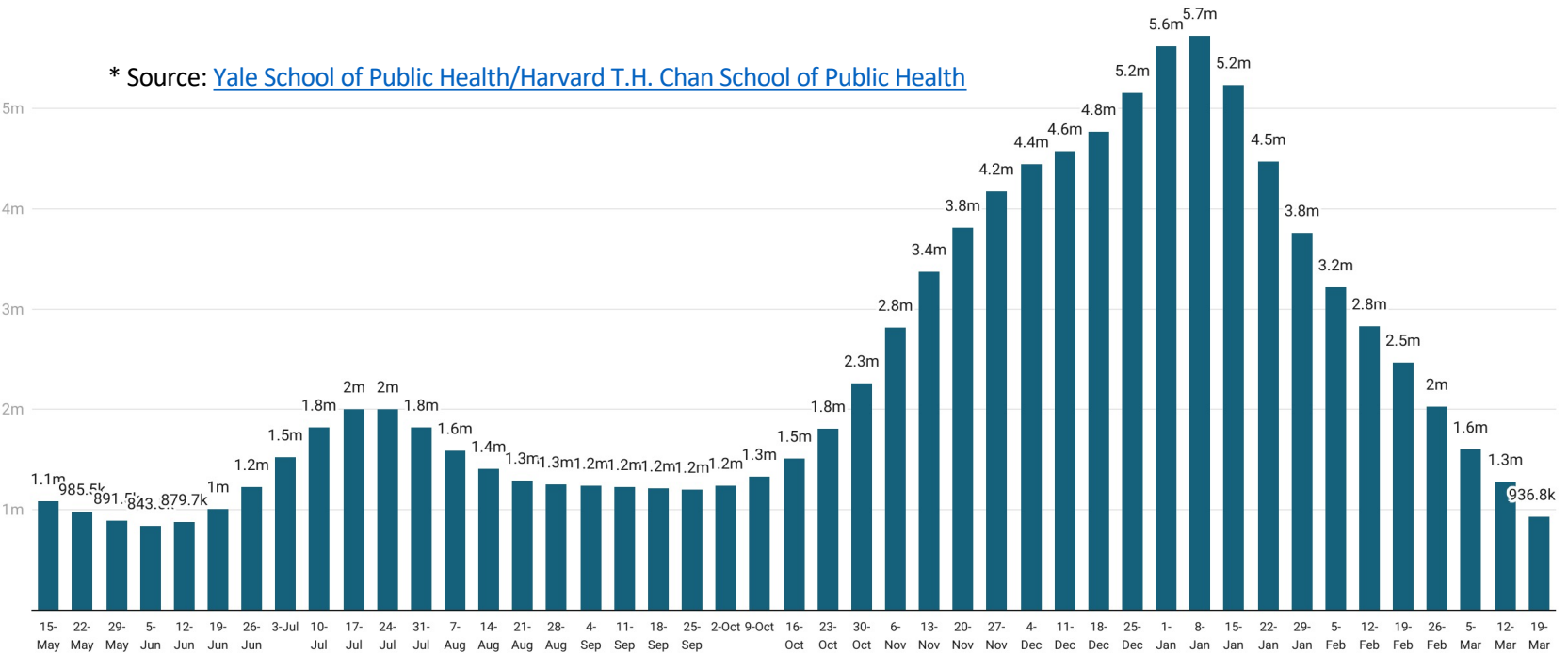


Chart: Health Industry Advisor LLC • Source: Yale and Harvard Schools of Public Health • Created with Datawrapper

Covid-19 "Vital Signs"

Week-Over-Week Change in Newly Detected Cases

Michigan recorded the largest week-over-week increase in new cases, followed by New Jersey and Pennsylvania. Michigan has recorded week-over-week increases four straight weeks. Arizona, California, and Texas recorded sizable week-over-week declines in new cases.

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

March 13-20 v. March 6-12

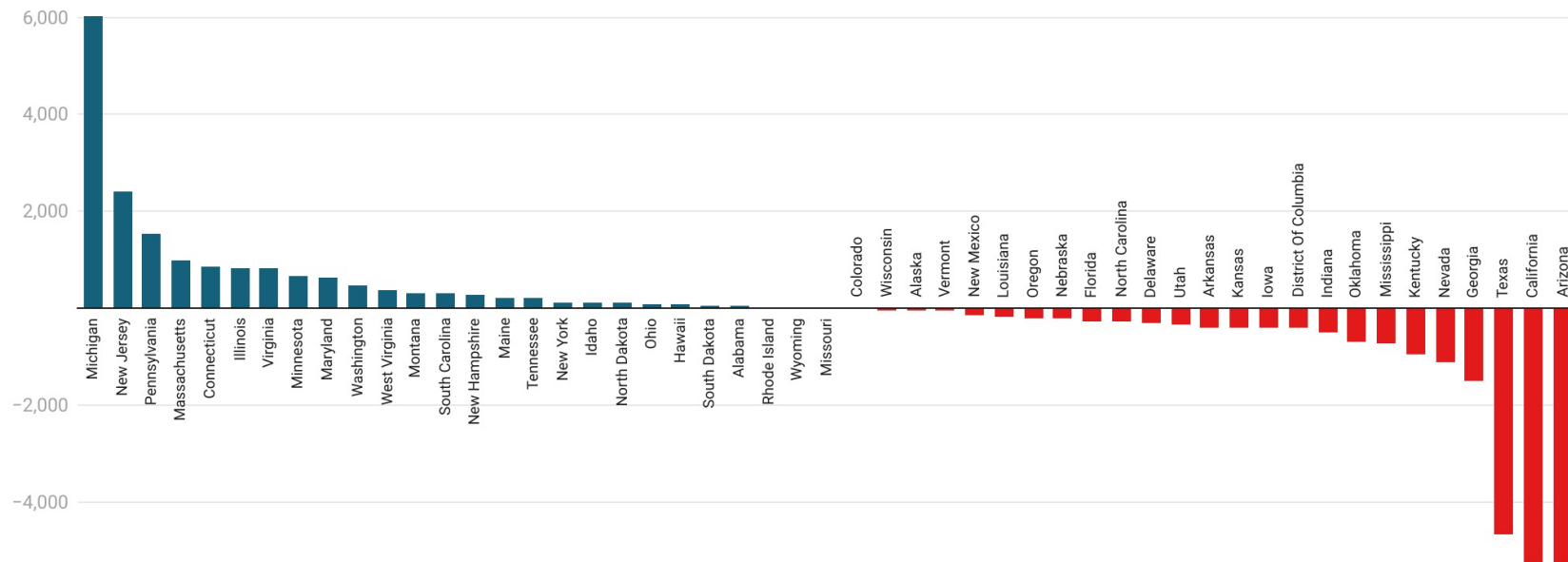


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Covid-19 "Vital Signs"

Covid-19 Hospital Occupancy

Covid-19 inpatient days plunged 8% week-over-week, and by an average of more than 20% per week since mid-February.

Covid-19 Inpatient Days - United States

For the 7 days ending on date shown

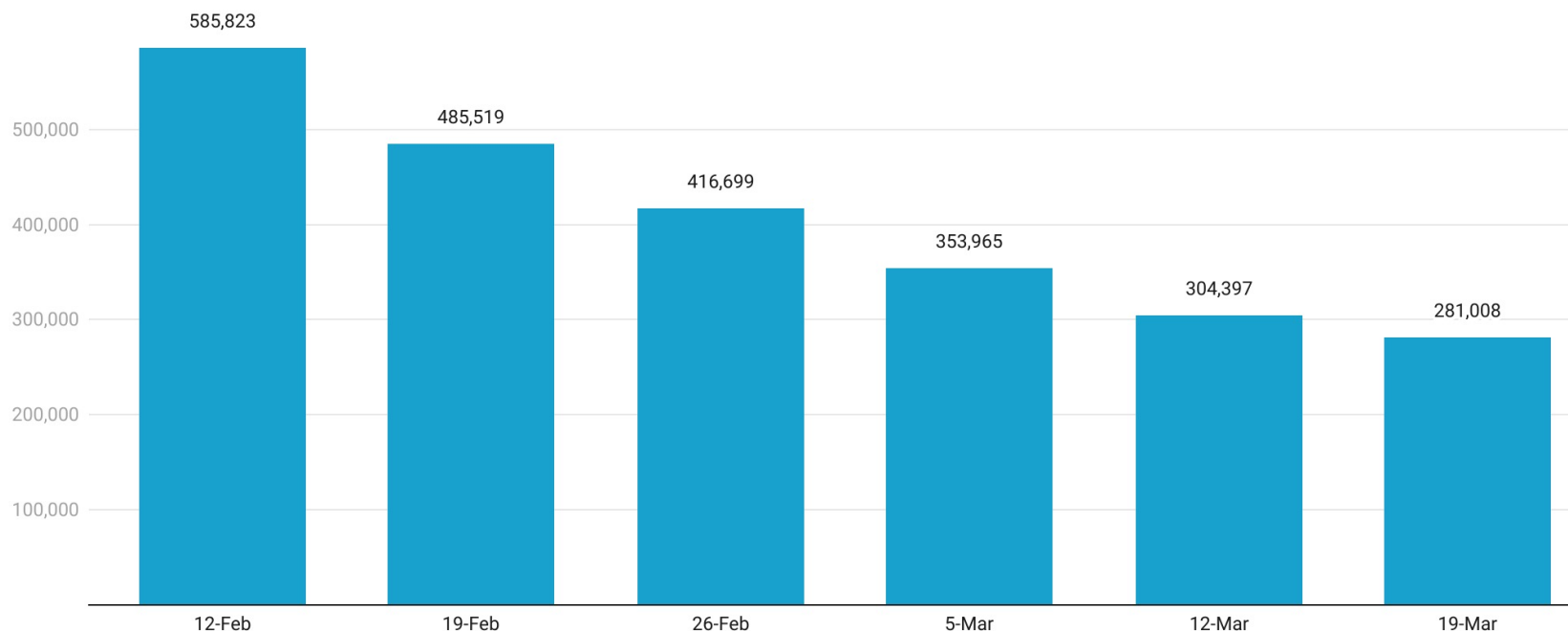


Chart: Health Industry Advisor LLC • Source: Department of Health & Human Services • Created with Datawrapper

Covid-19 "Vital Signs"

Week-Over-Week Change in Covid-19 Hospital Occupancy

Delaware and Michigan both posted meaningful week-over-week increases in Covid-19 hospital patients. Michigan has posted slight increases each of the preceding two weeks, while Delaware had posted significant declines the previous five weeks.

Week-Over-Week Change in Covid-19 Hospital Occupancy

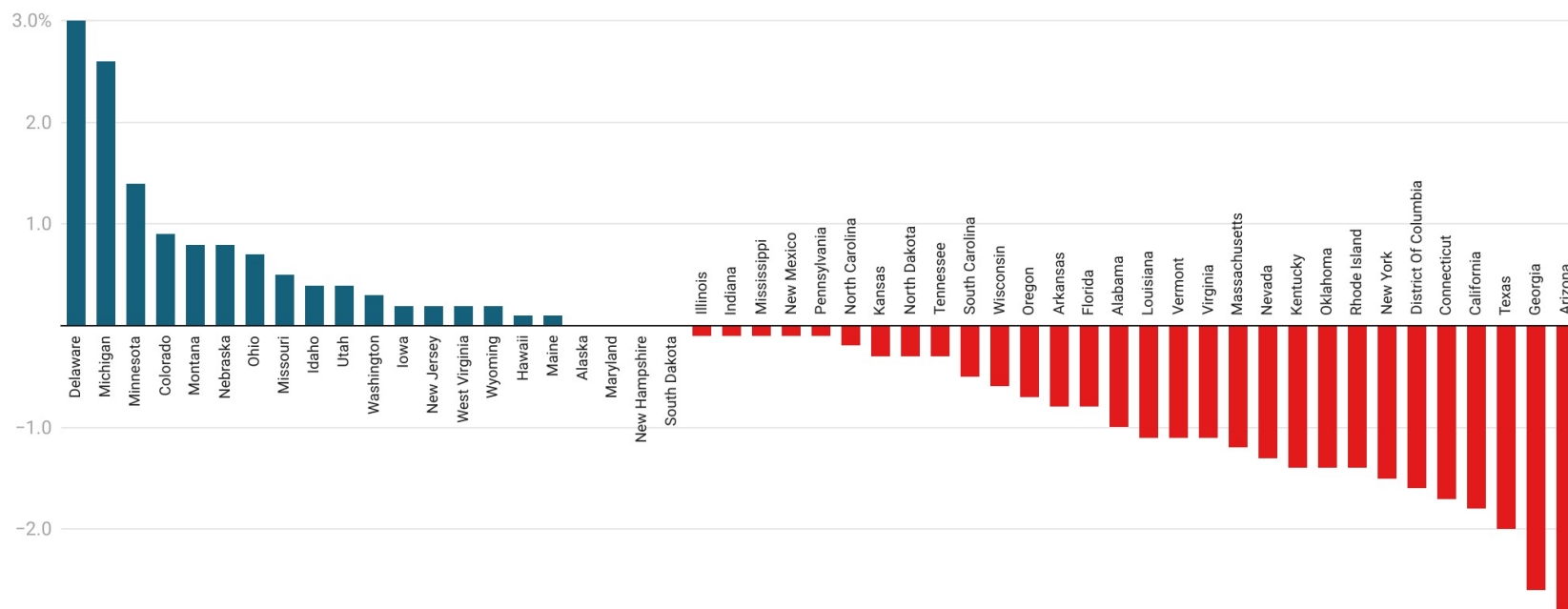


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper

Covid-19 "Vital Signs"

Deaths With Coronavirus

Deaths with coronavirus declined last week, for the seventh time in the last nine weeks. While the number of deaths last week fell to only one-third as many as during the middle of January, there were more than twice as many as during the week prior to Independence Day.

Weekly Deaths - United States

For the 7 days ending on date shown

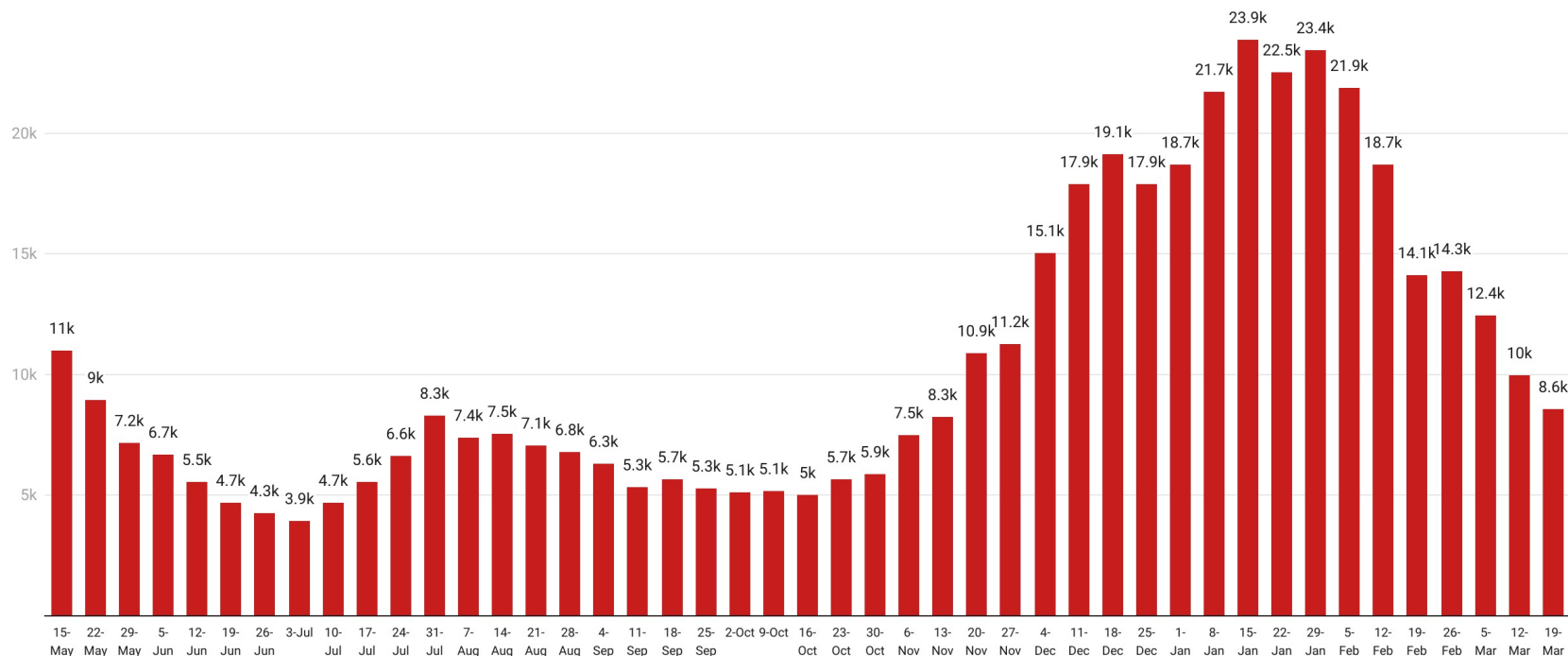


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper



Active Cases

The number of Active Cases fell for the seventh straight week, as recoveries continued to outpace newly-detected cases.

Current Active Cases - United States

For the 7 days ending on date shown

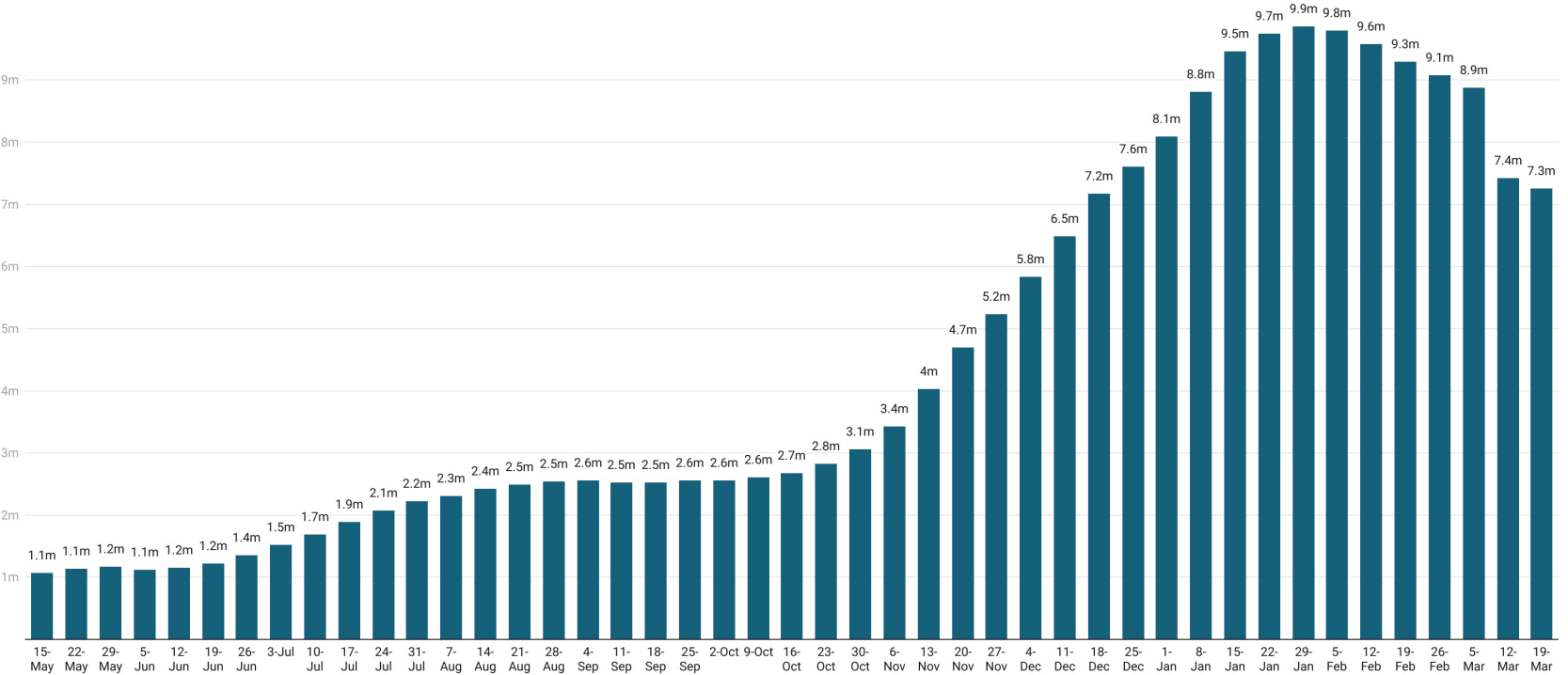


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

% 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

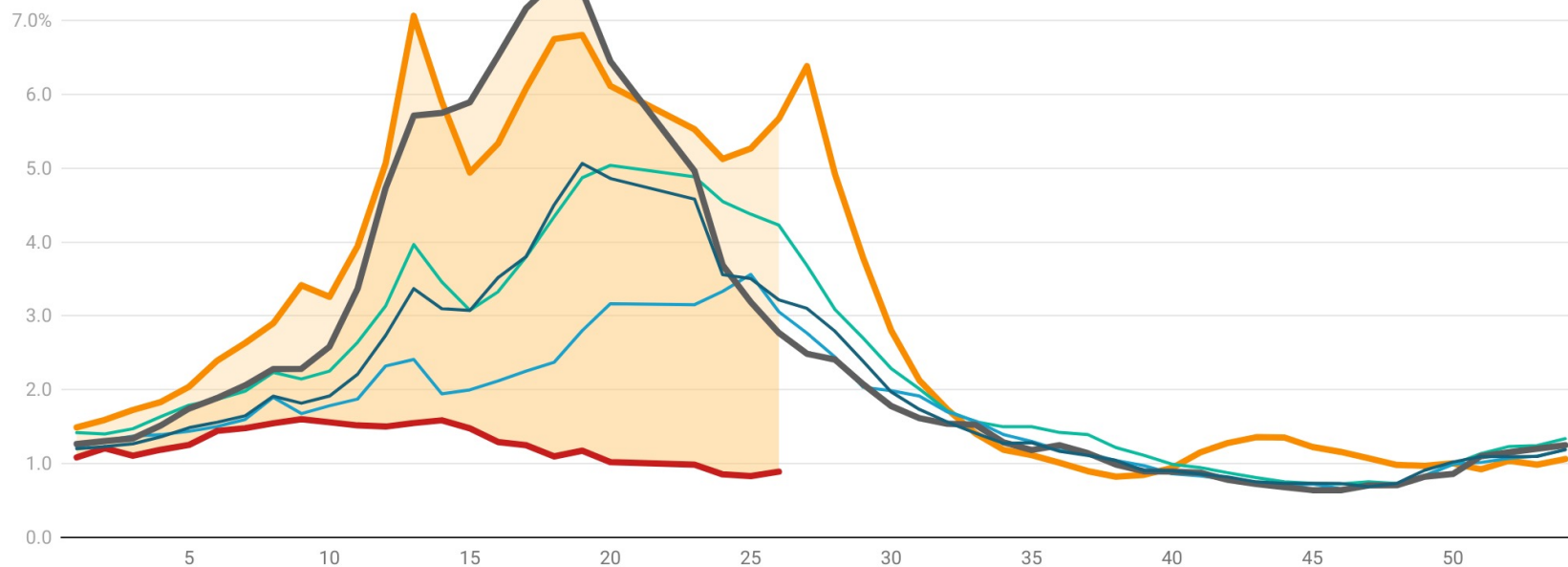


Chart: Health Industry Advisor LLC • Source: Centers for Disease Control & Prevention • Created with Datawrapper

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>