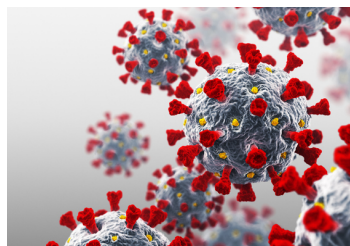


Covid-19 "Vital Signs"

Issue # 296

March 6, 2021



Covid-19 "Vital Signs"

Vaccination and Immunity Status - US

Vaccinations surged last week, overcoming earlier supply issues and weather delays.

Estimated immunity reached 35.5% of the US population, still mostly coming from a prior infection

Covid-19 Vaccinations - US

For the week shown

First Dose Second Dose

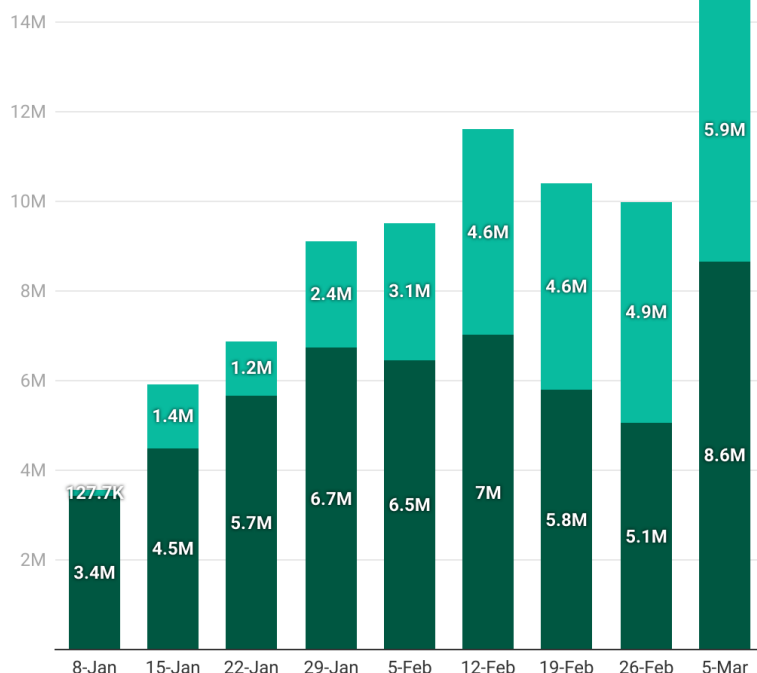
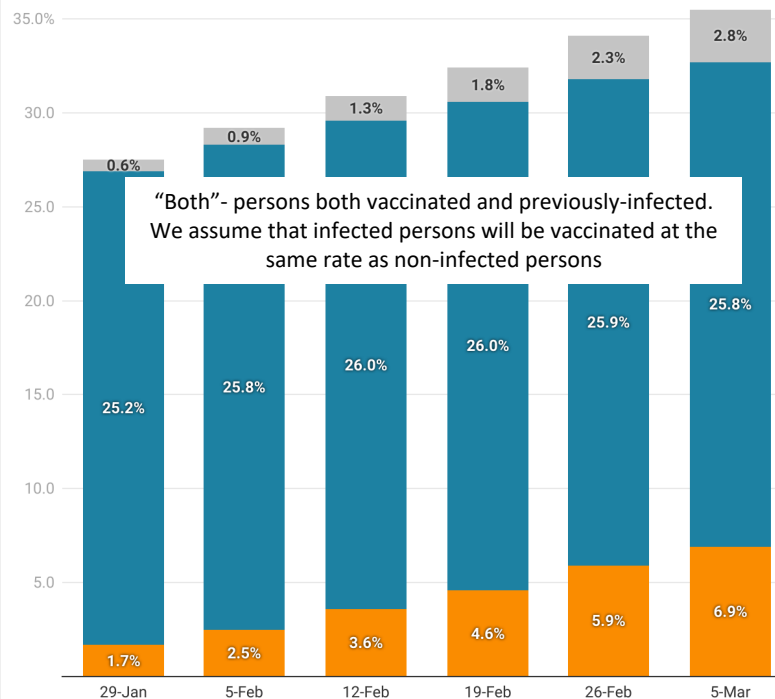


Chart: Health Industry Advisor LLC • Source: Bloomberg • Created with Datawrapper

Estimated % Immunity - US

Based on Vaccination Rate and Estimated True Infections (Gu Model)

Via Vaccination Via Infection Via Both



"Both" - persons both vaccinated and previously-infected.
We assume that infected persons will be vaccinated at the same rate as non-infected persons

<https://covid19-projections.com>

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

Covid-19 "Vital Signs"

Covid-19 Testing

Testing declined slightly week-over-week. Test-positivity, however, sunk to its lowest point since early October.

Weekly Tests - United States

For the 7 days ending on date shown

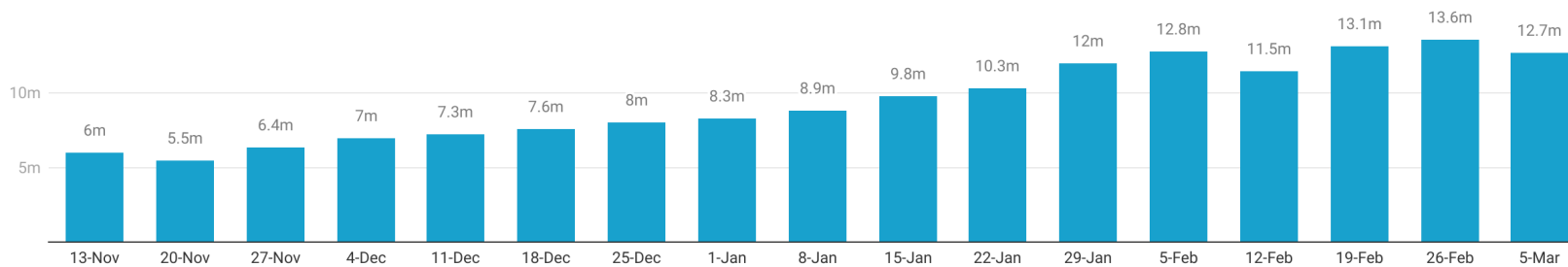


Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

Weekly Test-Positive% - United States

For the 7 days ending on date shown

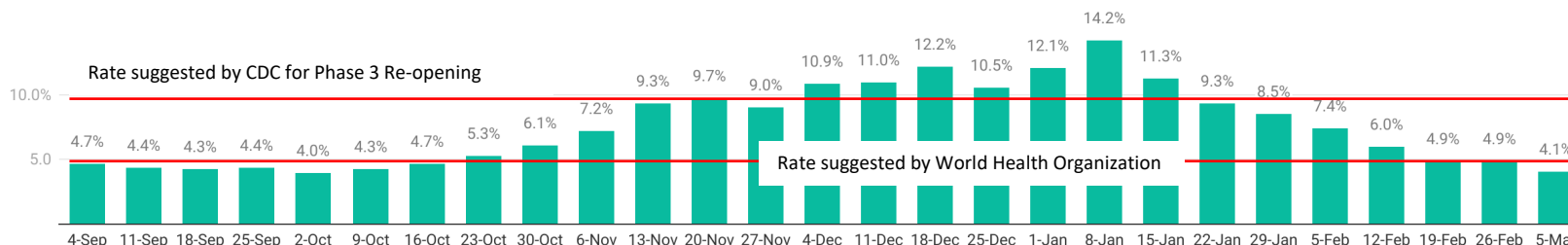


Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking project • Created with Datawrapper

Estimated Actual Infections – Yale/Harvard Model

Estimated infections dropped for the sixth successive week, plummeting by 75% in the time. There were fewer estimated infections last week than any week since mid-October.

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](#)

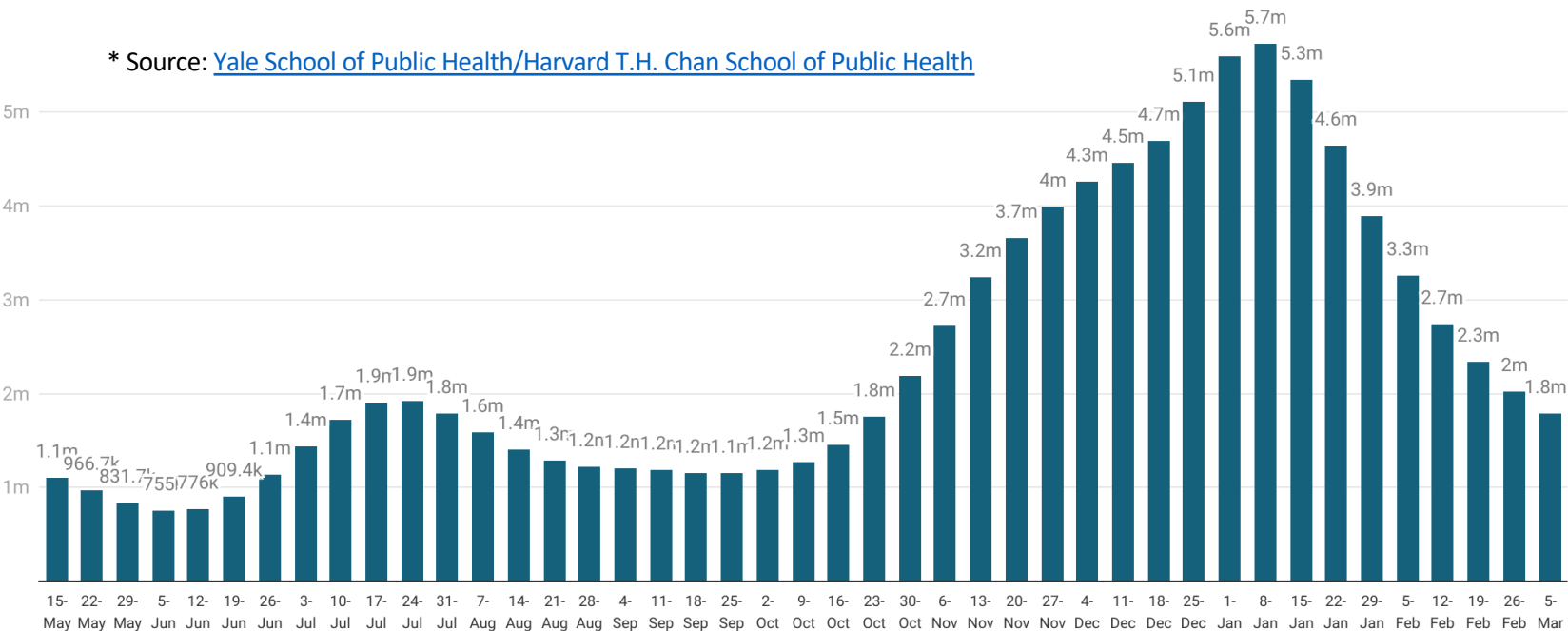


Chart: Health Industry Advisor LLC • Source: Yale and Harvard Schools of Public Health • Created with Datawrapper

Covid-19 "Vital Signs"

Newly Detected Cases

New cases dropped for the eighth successive week, plunging to just 26% of the early-January peak. We are witnessing new case levels as low as they have been since mid-October.

Weekly New Detected Cases - United States

For the 7 days ending on date shown

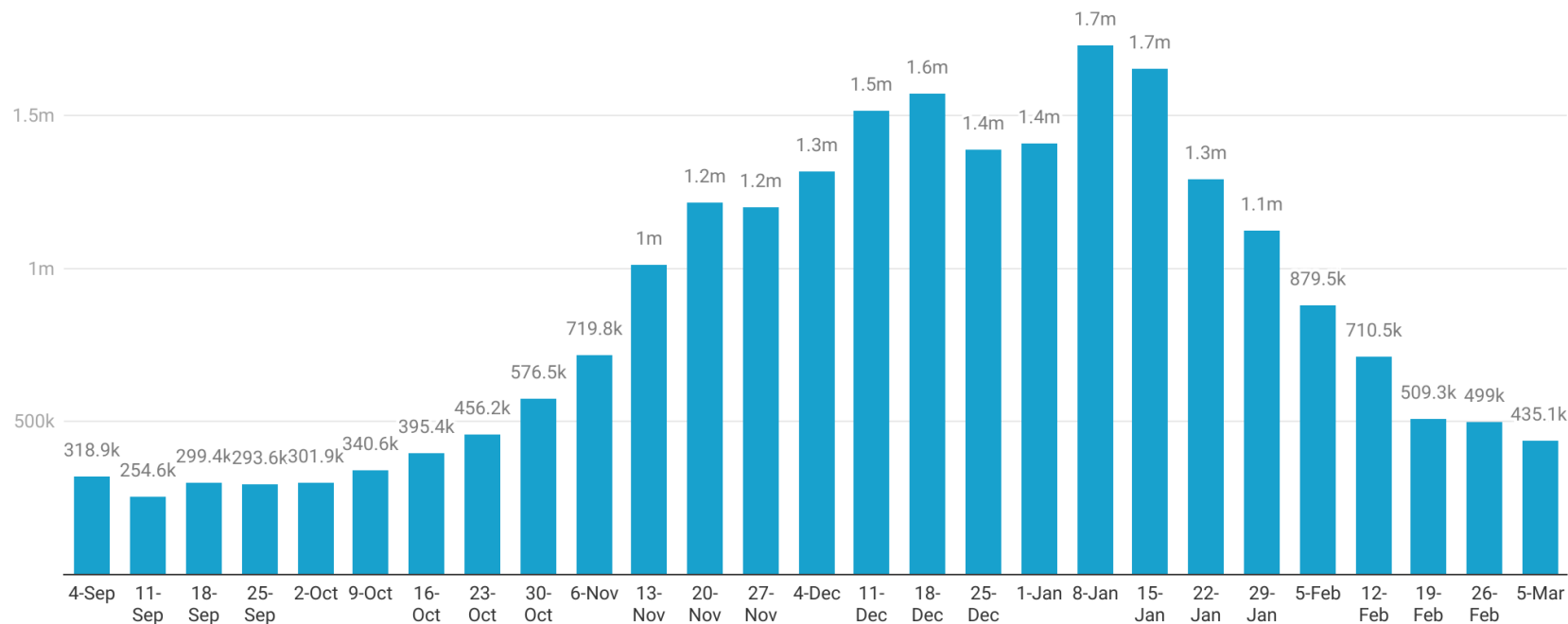


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Newly Detected Cases - By State

California, Florida, New York and Texas accounted for 42% of all new cases in the US over the past seven days.

New Weekly Detected Cases - By State

February 27 - March 6

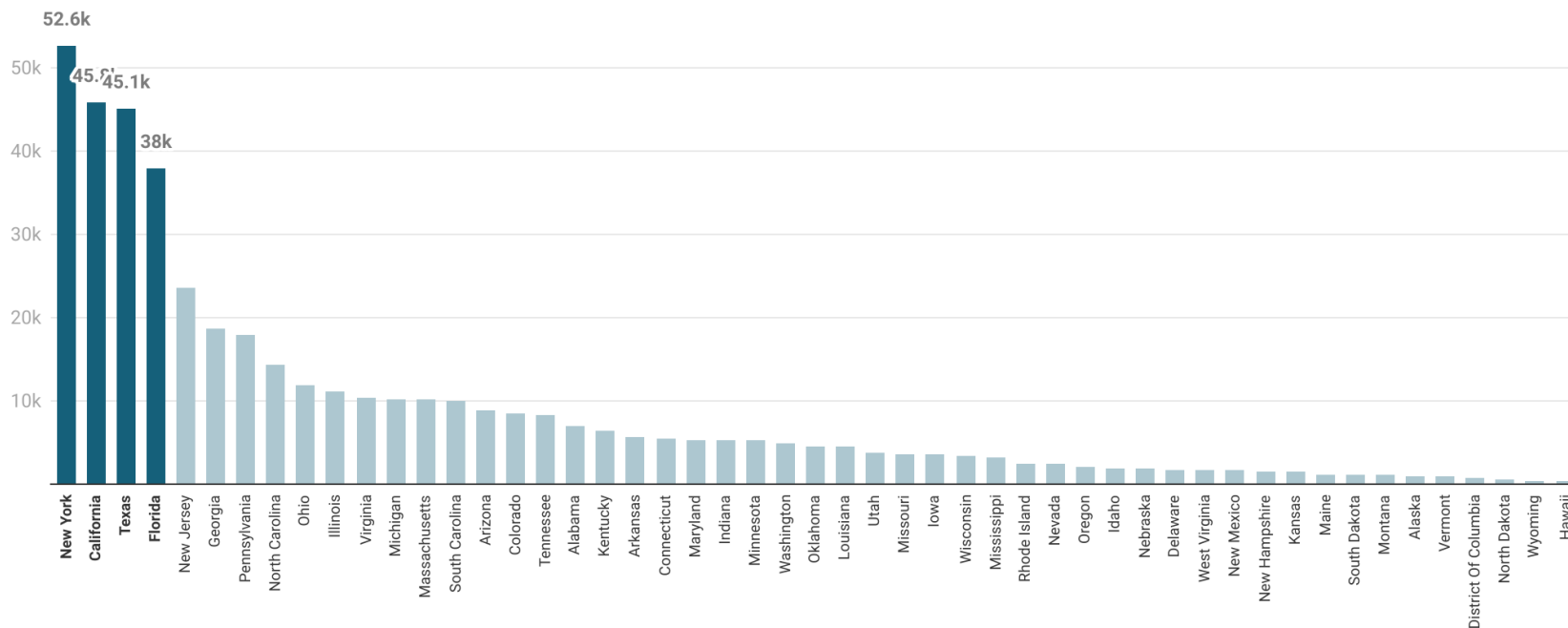


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Covid-19 "Vital Signs"

Week-Over-Week Change in Newly Detected Cases

Texas recorded a significant decline in new cases week-over-week - likely an artifact of delayed reporting from the severe weather two weeks ago. Several states reported week-over-week increases, though they were relatively small.

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

February 27-March 5 v. February 20-26

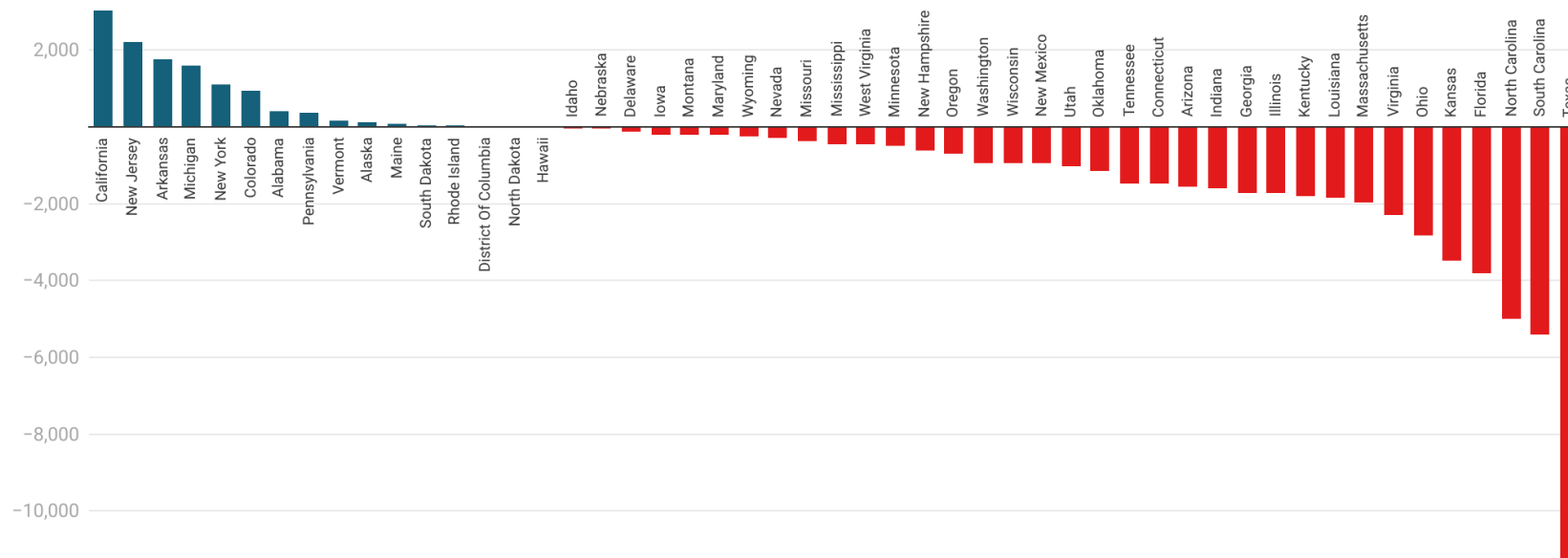


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Test Efficiency: Tests Per Case Detected

Test efficiency surged last week reaching its best level since the pandemic began. following a six-week improvement. It required ~24 tests to detect a new case the past two weeks week, up from a low of only 7 tests in early January.

Weekly Tests / Newly Detected Case - United States

For the 7 days ending on date shown

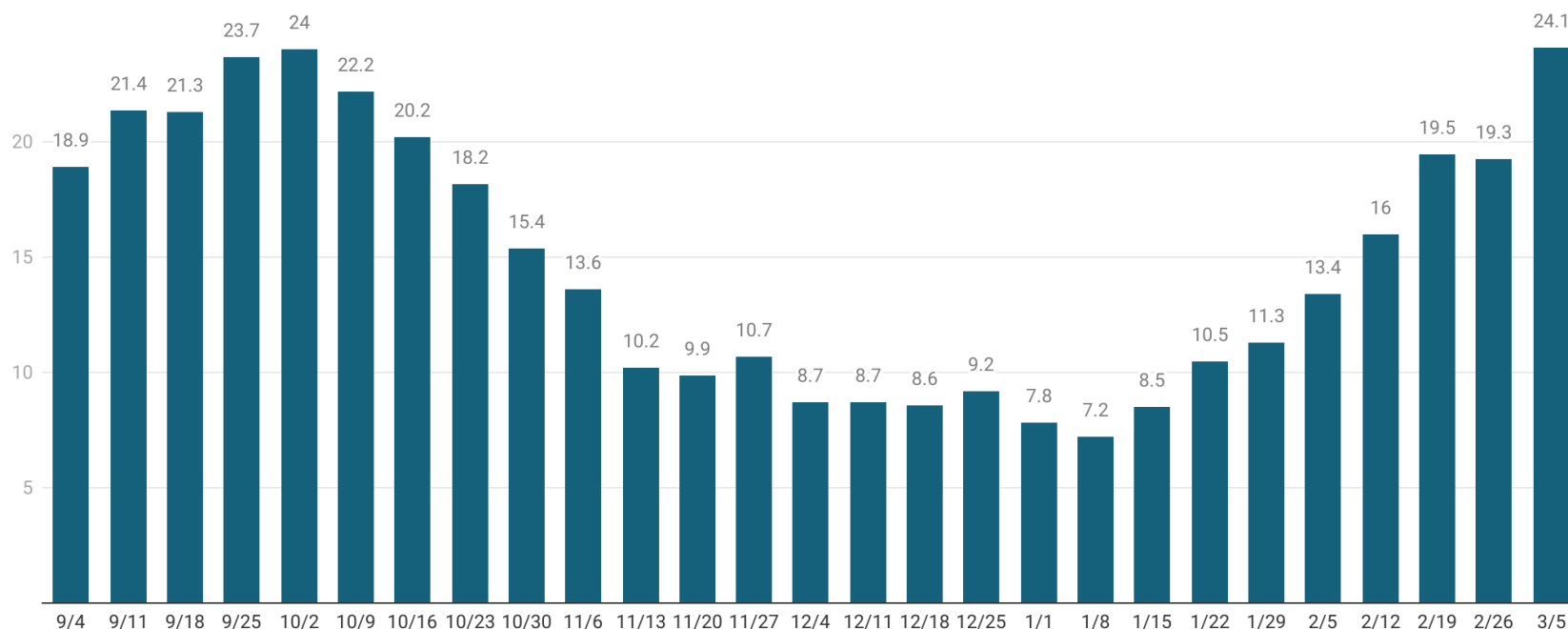


Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project & worldometers.info • Created with Datawrapper



Active Cases

The number of Active Cases eased for the fifth straight week, as recoveries outpaced newly-detected cases

Current Active Cases - United States

For the 7 days ending on date shown

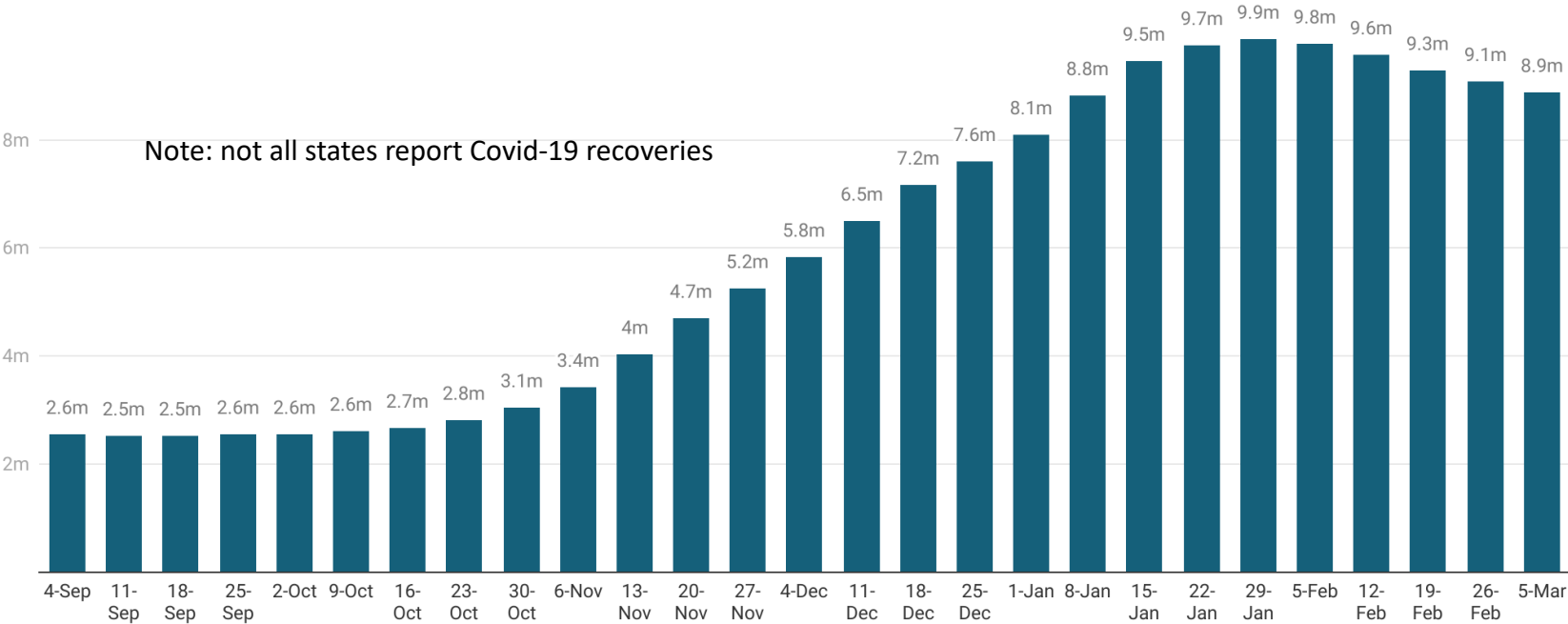


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

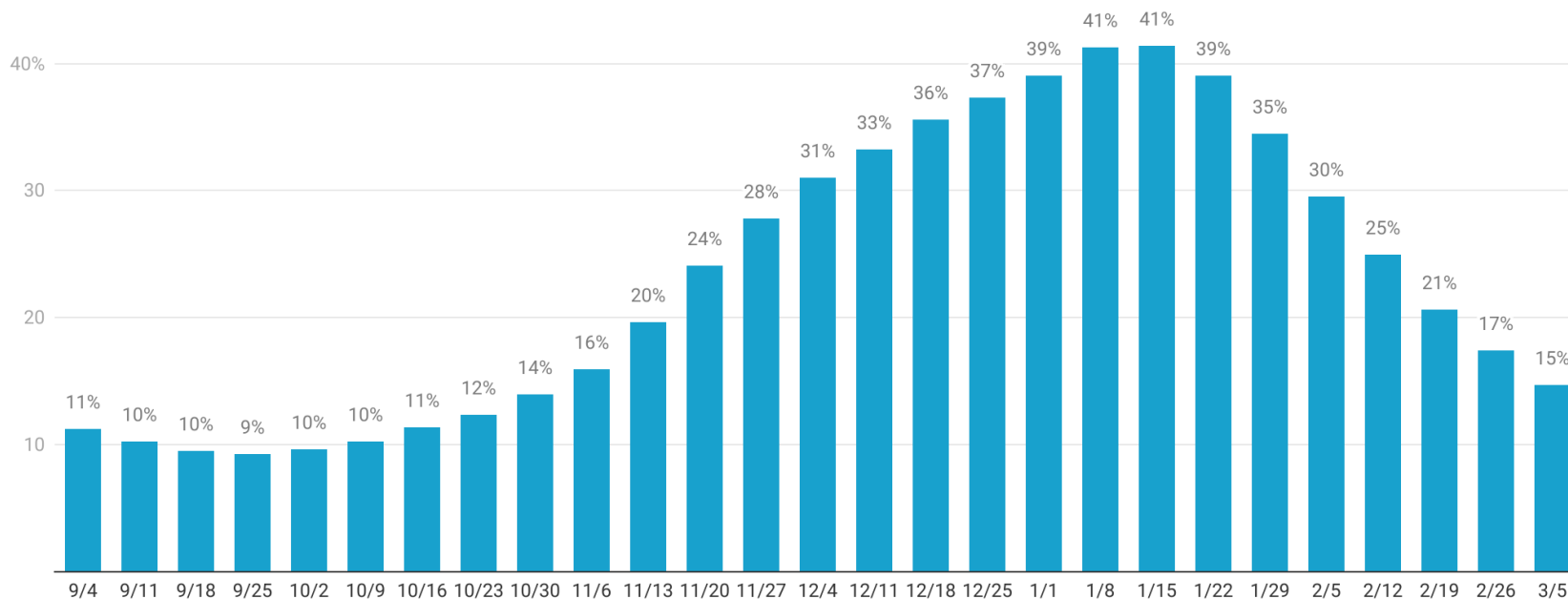
Covid-19 "Vital Signs"

Covid-19 Hospital Occupancy

Covid-19 patients spent fewer days in the hospital for the seventh straight week, falling nearly 60% in that time. Covid-19 occupancy fell to its lowest rate since the end of October.

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: The Atlantic's Covid Tracking Project • Created with Datawrapper

Covid-19 "Vital Signs"

Covid-19 Patient Days / 100 New Cases

Newly-detected cases declined faster than Covid-19 census over the past month. Given the lag from new case detection to hospital discharge, Covid-19 census should decline even further in the coming weeks.

Covid-19 Inpatient Days / 100 New Cases

For the 7 days ending on the date shown

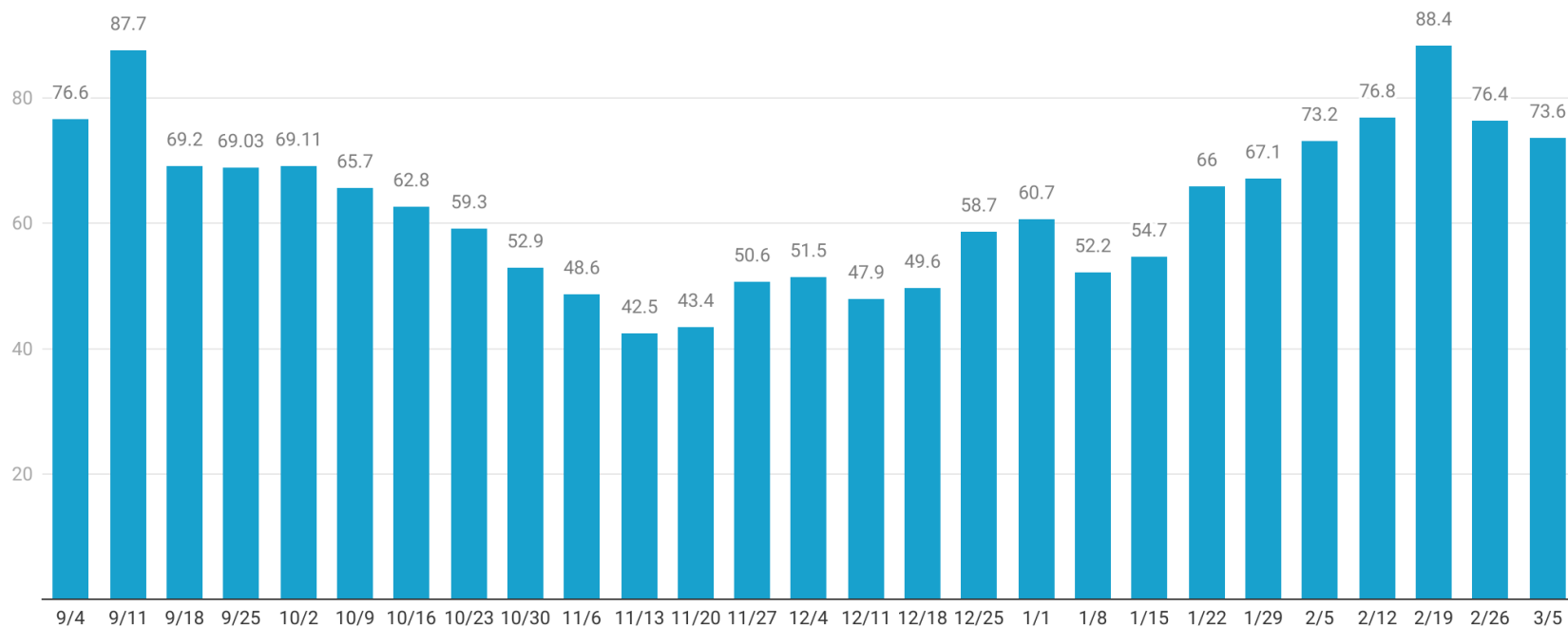


Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project & worldometers.info • Created with Datawrapper

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.

% of Active Cases in the Hospital

For the week shown

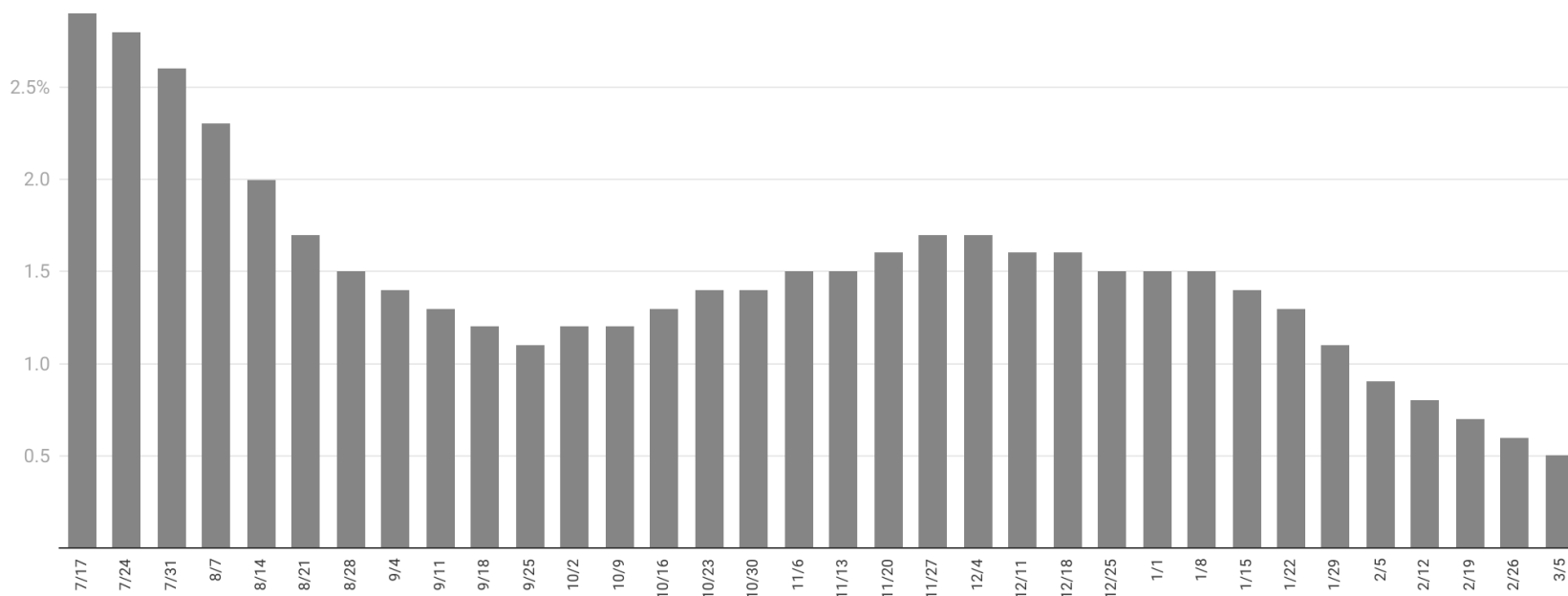


Chart: Health Industry Advisor LLC • Source: The Atlantic and worldometers.info • Created with Datawrapper

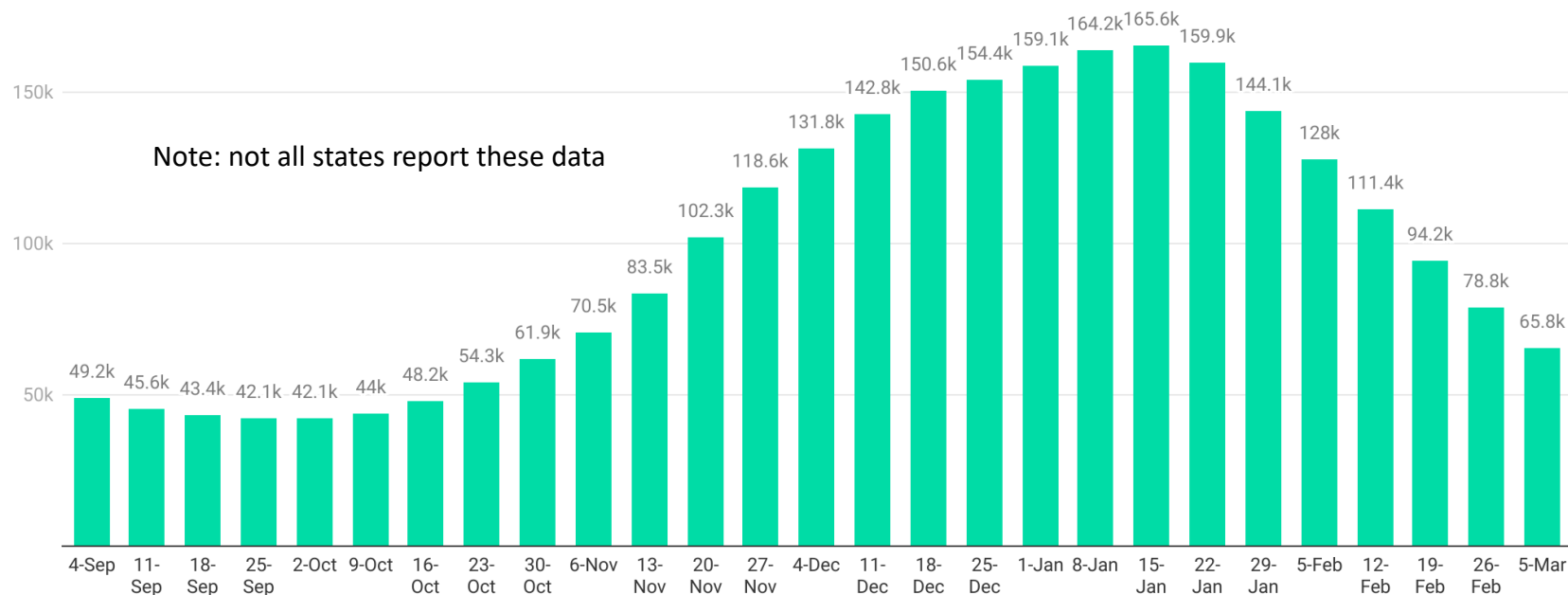
Covid-19 "Vital Signs"

Covid-19 ICU Patient Days

Covid-19 ICU patient days declined for the seventh straight week,. There were fewer Covid-19 patients in the ICU last week than any week since the end of October.

Weekly ICU Covid-19 Census - United States

For the 7 days ending on date shown



The following states started reporting data on: HI, 7/30; ND, 8/19; SC, 7/28; TN, 8/12. The following states do not report: AL, AK, AR, CO, CT, FL, GA, LA, MO, MT, NE, NH, NM, PA, SD, VT, WA

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

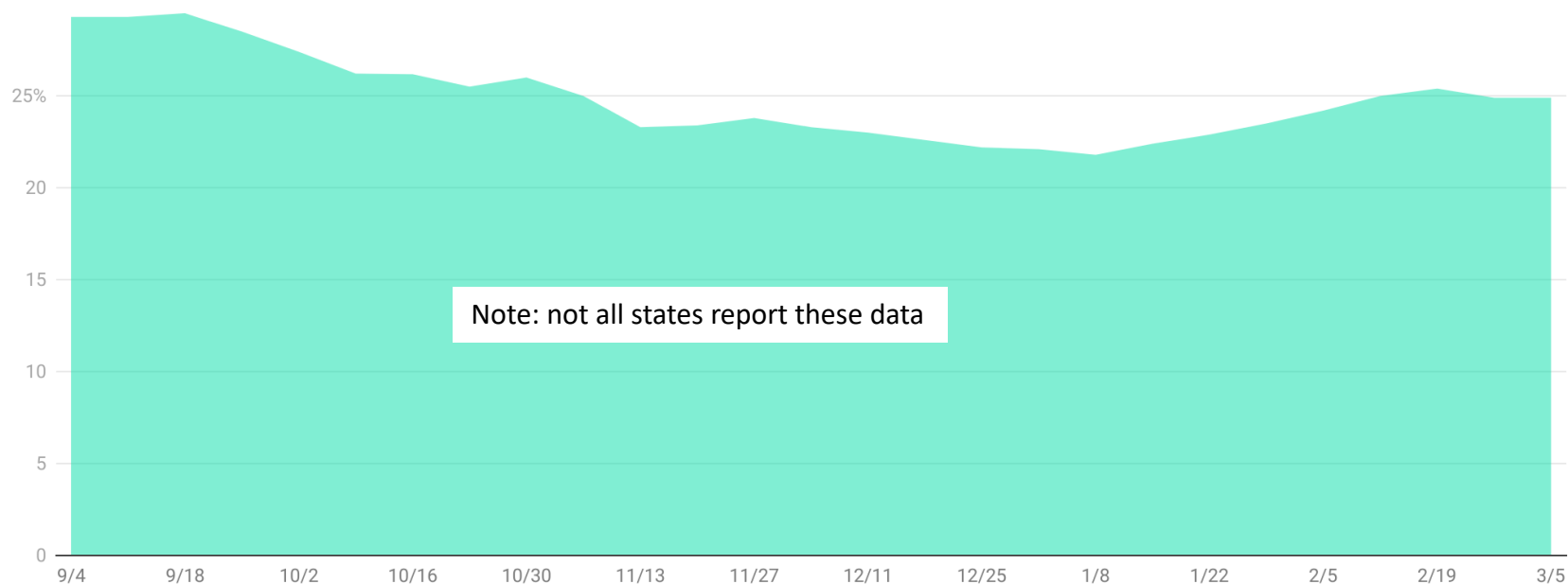
Covid-19 "Vital Signs"

Mix of Covid-19 Patients: % in ICU

The % of Covid-19 patients requiring intensive care eased slightly the past few weeks.

% of Hospitalized Covid-19 Patients in the ICU

For the date shown



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

Chart: Health Industry Advisor LLC • Source: Atlantic's Covid Tracking project • Created with Datawrapper

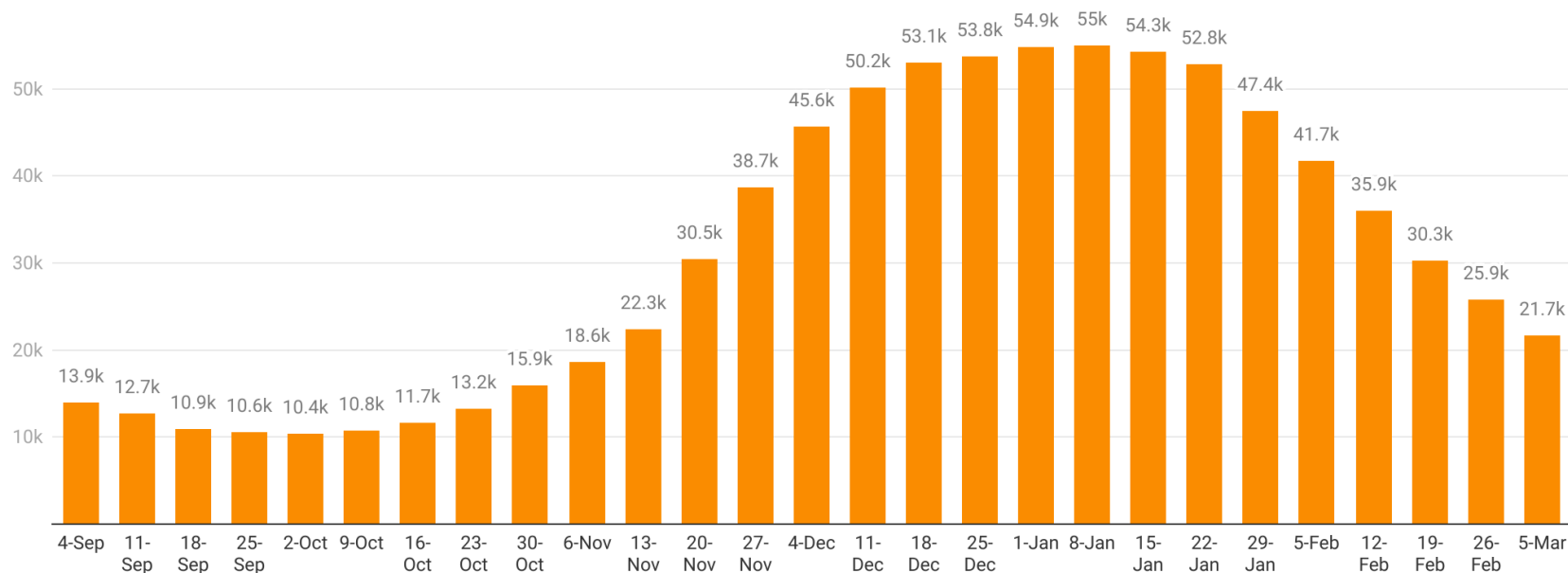
Covid-19 "Vital Signs"

Covid-19 Ventilator Days

Covid-19 ventilator days dropped for the eighth straight week. There were 33,000 fewer Covid-19 ventilator days last week than the week of January 2-8.

Ventilator Days Covid-19 - United States

For the 7 days ending on date shown



The following states started reporting data: HI, 7/31; KS, 7/16; SC, 7/24; TN, 8/12. The following states do not report: AL, CA, CO, CT, FL, GA, ID, KY, MD, MN, MT, NH, NM, NC, ND, OK, SD, TX, UT, VT, WI, WY

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

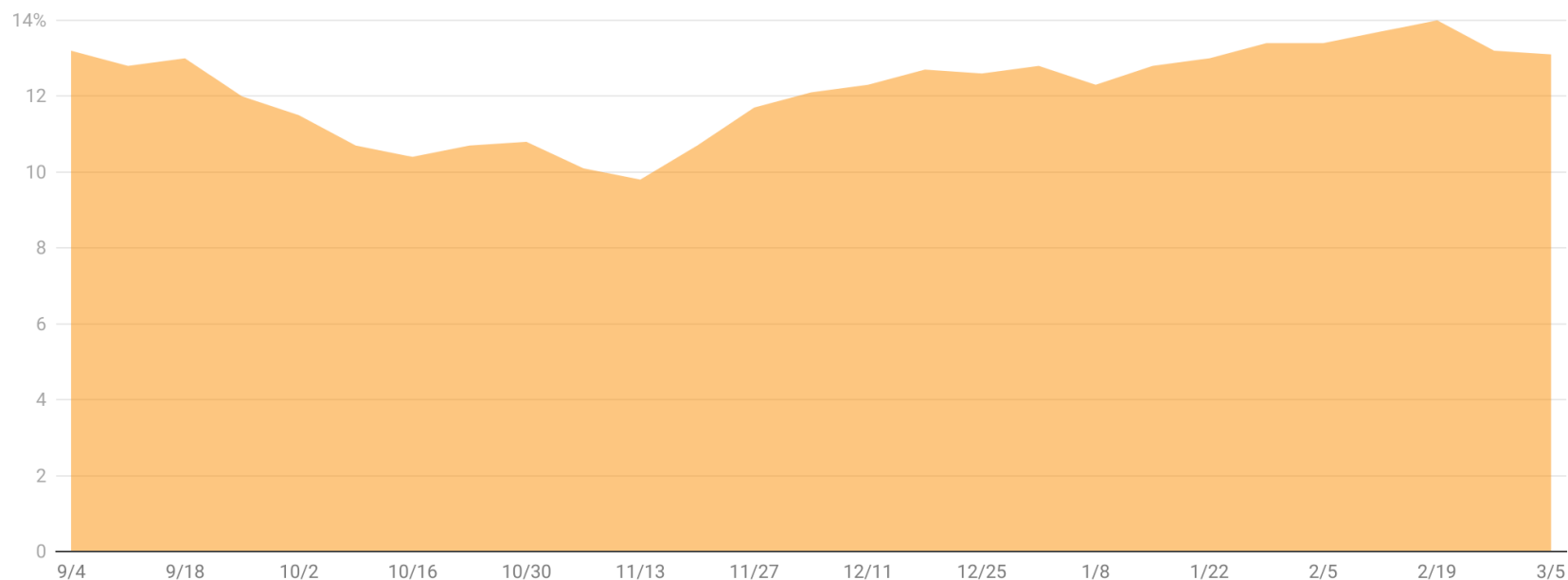
Covid-19 "Vital Signs"

Mix of Covid-19 Patients: % on Ventilators

The % of Covid-19 patients requiring ventilator care declined over the past several weeks.

Weekly Comparison of the % of Hospitalized Covid-19 Patients on Ventilators

For the 7 days as of the date shown



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

Chart: Health Industry Advisor LLC • Source: Atlantic's Covid Tracking project • 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

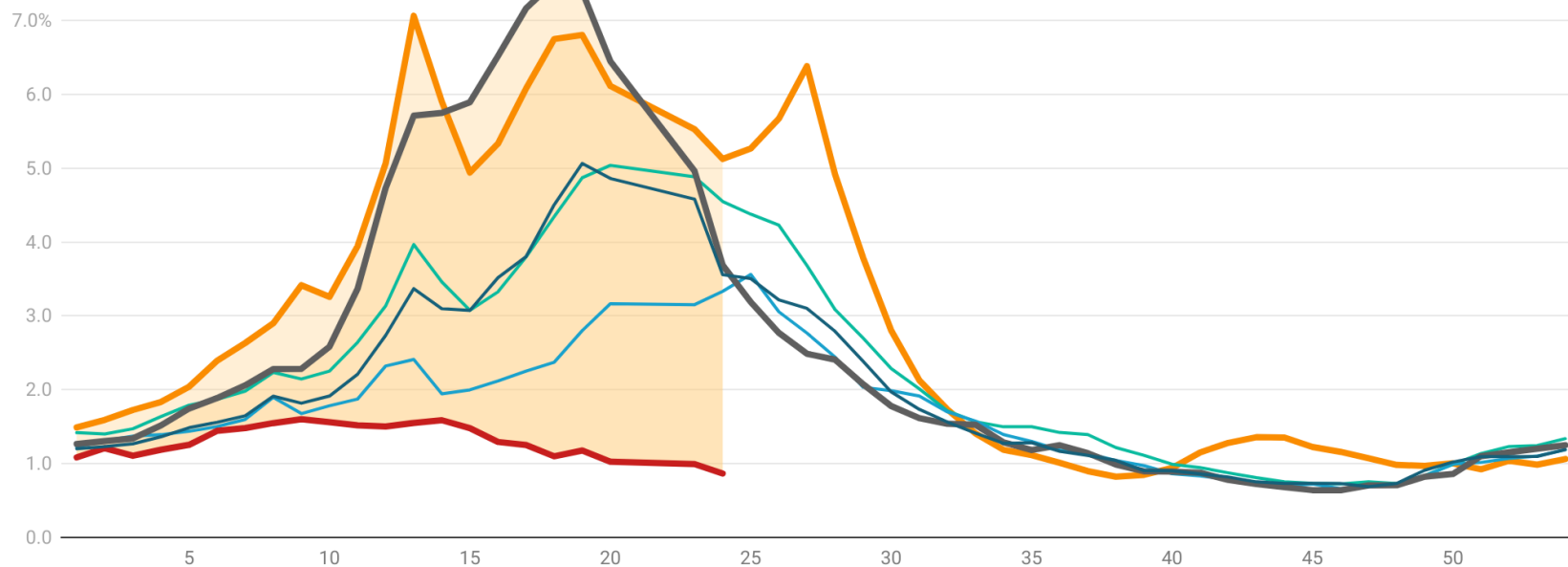


Chart: Health Industry Advisor LLC • Source: Centers for Disease Control & Prevention • Created with Datawrapper

Covid-19 "Vital Signs"

Deaths With Coronavirus

Tragically, too many people died with coronavirus last week. Still, there were fewer deaths with coronavirus last week than during any week since Thanksgiving week.

Weekly Deaths - United States

For the 7 days ending on date shown

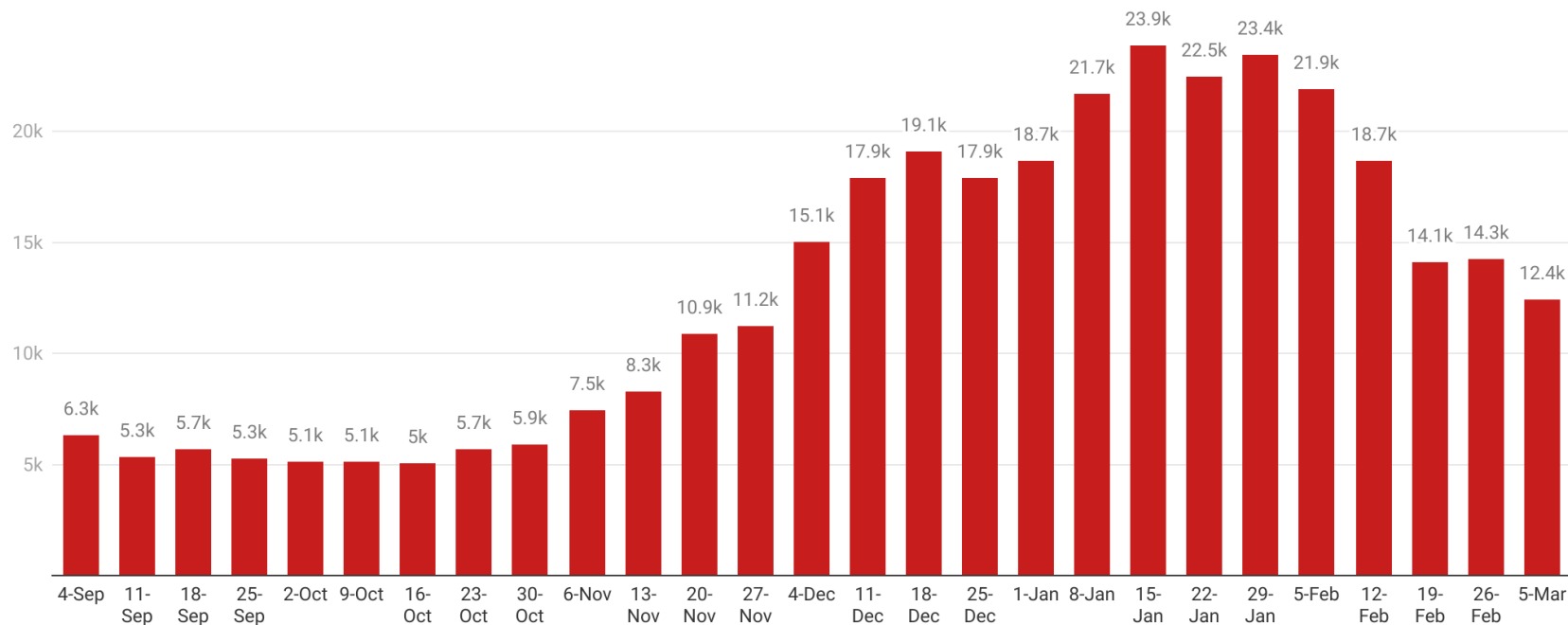


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Sources

The following data sources are accessed on a daily or weekly basis

- The Atlantic's Covid Tracking Project: <https://covidtracking.com>
- 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>
- Oliver Wyman Pandemic Navigator, <https://pandemicnavigator.oliverwyman.com/forecast?mode=country®ion=United%20States&panel=mortality>
- [Rt.live](https://rt.live)
- 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=Z0b6TmHW>