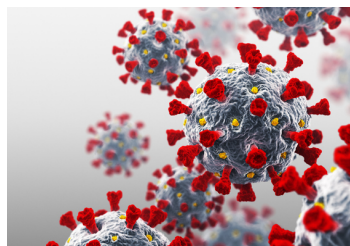


Covid-19 "Vital Signs"

Issue # 284

February 13, 2021



- Vaccinations and immunity:
 - The US jabbed nearly 1.7 million people per day last week, up from 1.3-1.4 million each of the prior two weeks. Second doses took priority, with 4.6 million people getting a second dose, compared to 3.1 million a week earlier;
 - To date, 50 million Covid-19 vaccines have been administered, 12.8 million as second doses;
 - Estimated immunity surpassed 30% in the US, with most of this coming from a prior infection.
- Testing:
 - Covid-19 testing dipped for the fourth straight week, as fewer people dread having been recently-exposed;
 - Test-positivity improved for the fourth straight week and is better than at any time since mid-October;
 - Test efficiency - the number of tests required to detect a single case - strengthened for the fifth straight week. The current rate outperforms its best reading since mid-October.
- New and Active Cases; Recoveries:
 - New cases shrank for the fifth consecutive week; Weekly new cases nosedived 250% since January 2-8;
 - Fifteen weeks have gone by since weekly new cases have been as low as detected last week;
- Texas identified 37,500 fewer cases over the past seven days than one week earlier; California, 26,800 fewer;
- Active Covid-19 cases dipped for the second straight week;
- Recoveries outpaced new cases last week, the first time this happened since September 12-18.
- Healthcare resources:
 - Covid-19 patients spent fewer days in the hospital again last week, the fourth consecutive weekly decline;
 - Covid-19 hospital occupancy dropped to 25%, from 41% in early-January. Occupancy should decline further in the next few weeks, as inpatient stays catch-up with declining new cases;
 - ICU Covid-19 census declined for the fourth straight week, falling to its lowest point since November 14-20;
 - Ventilator days dropped for the fifth consecutive week;
 - Flu visits waned from already low levels, even during what usually is peak flu season.
- Deaths with coronavirus:
 - Deaths fell sharply week-over-week; Fewer deaths were recorded last week than during each of the prior five weeks.

Covid-19 "Vital Signs"

Vaccination and Immunity Status - US

Vaccinations leapt this past week. Second doses paced the increase, with 4.6 million Americans receiving a second jab. Immunity via vaccination wallows below 5%, due to the lag from vaccination to immunity. Still, presumed immunity exceeds 30% in the US.

Covid-19 Vaccinations - US

For the week shown

First Dose Second Dose

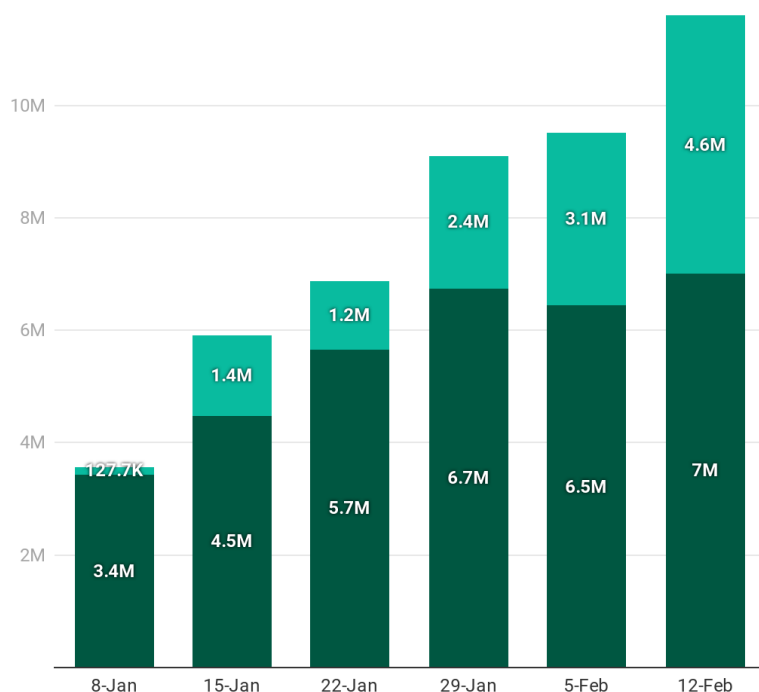
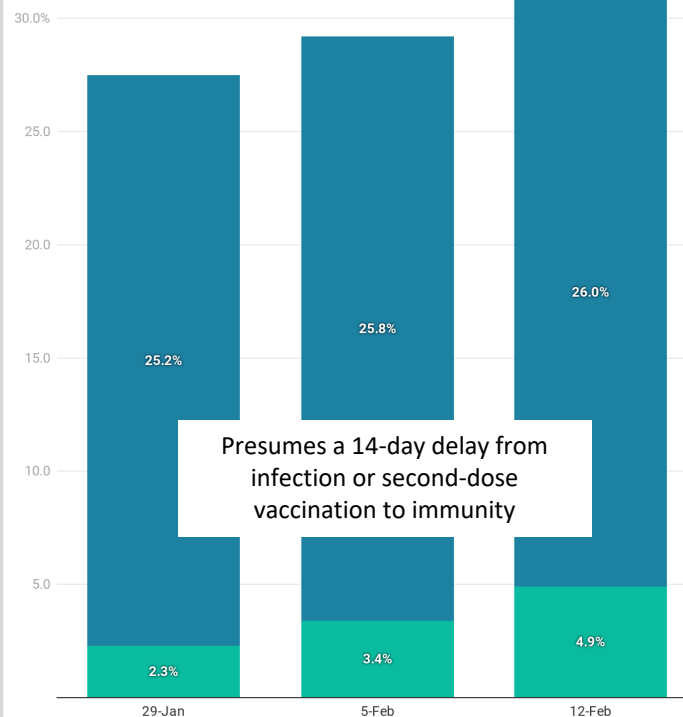


Chart: Health Industry Advisor LLC • Source: Bloomberg • Created with Datawrapper

Estimated % Immunity - US

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

Via Vaccination Via Infection



<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 for the fourth straight week, suggesting that fewer people are concerned about a recent exposure. Test-positivity improved for the fifth straight week, and was stronger than any week since the third week of October

Weekly Tests - United States

For the 7 days ending on date shown

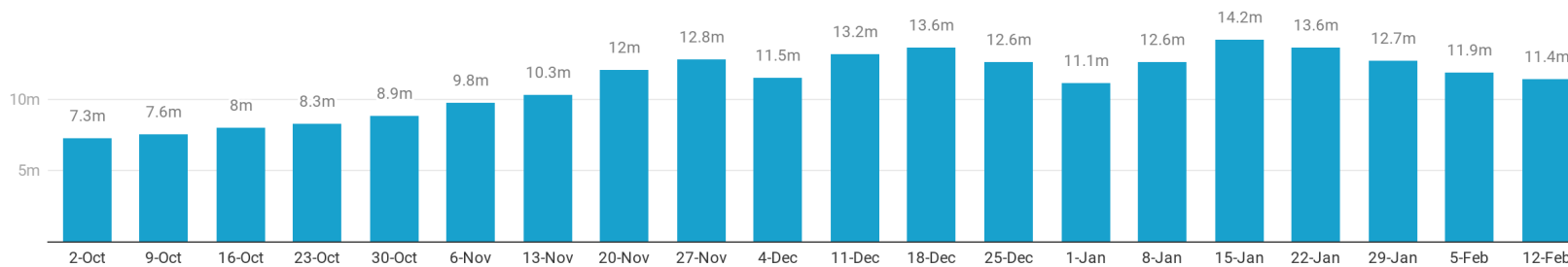


Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

Weekly Test-Positive% - United States

For the 7 days ending on date shown

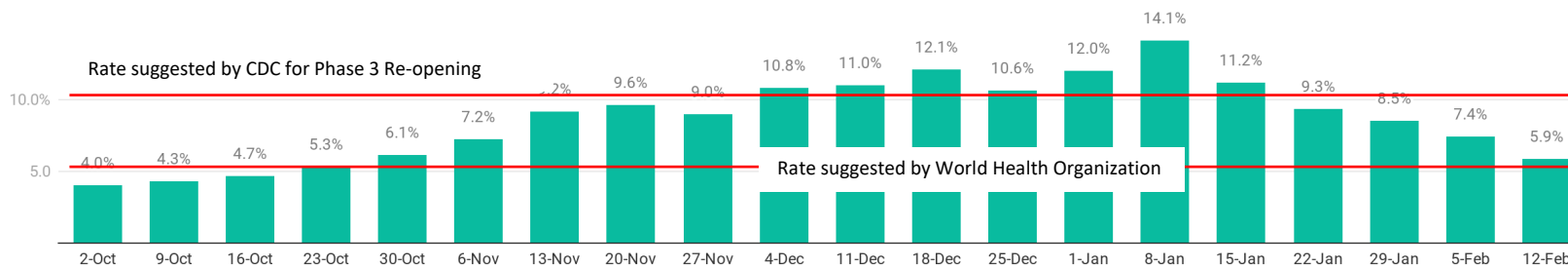


Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking project • Created with Datawrapper

Covid-19 "Vital Signs"

Newly Detected Cases

New cases dropped for the fifth successive week, plunging 250% in that time. New cases reverted to a level unseen since late-October.

Weekly New Detected Cases - United States

For the 7 days ending on date shown

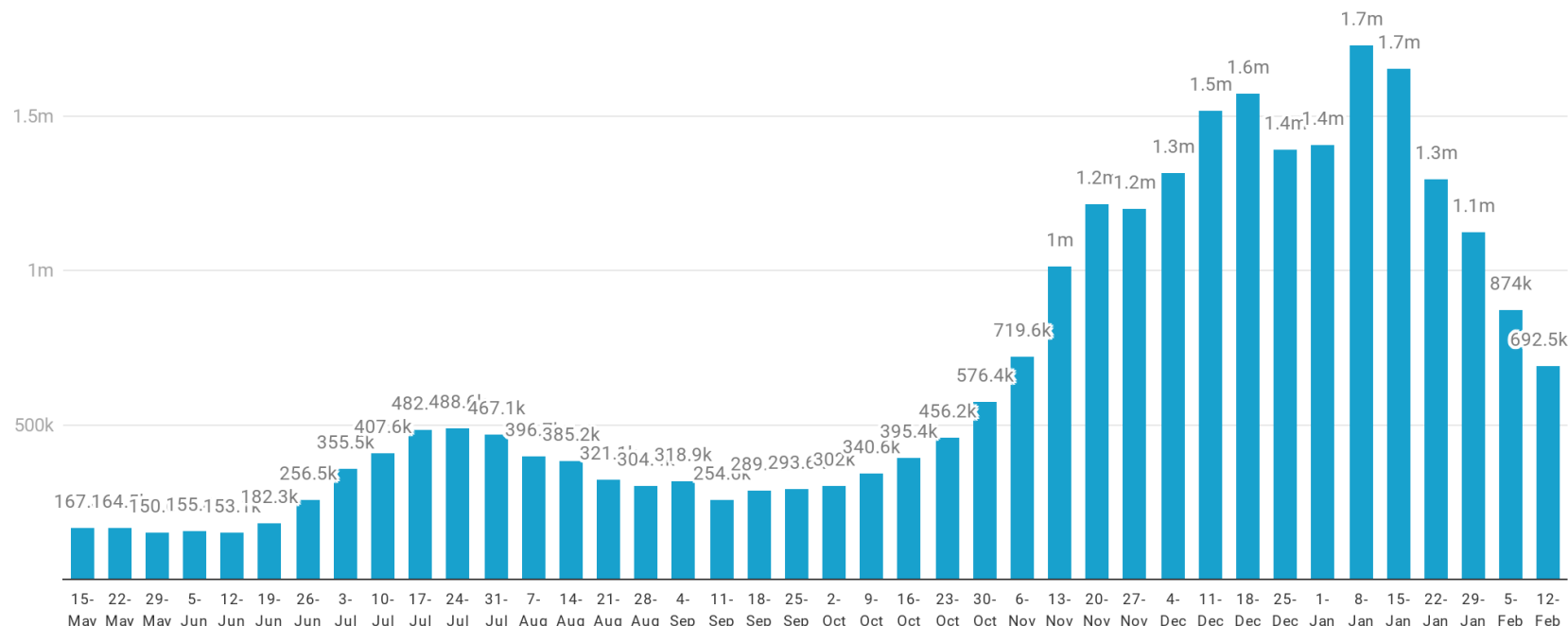


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Newly Detected Cases - By State

California, Florida, New York and Texas accounted for nearly 40% of all new cases in the US over the past seven days

New Weekly Detected Cases - By State

February 6 - 12

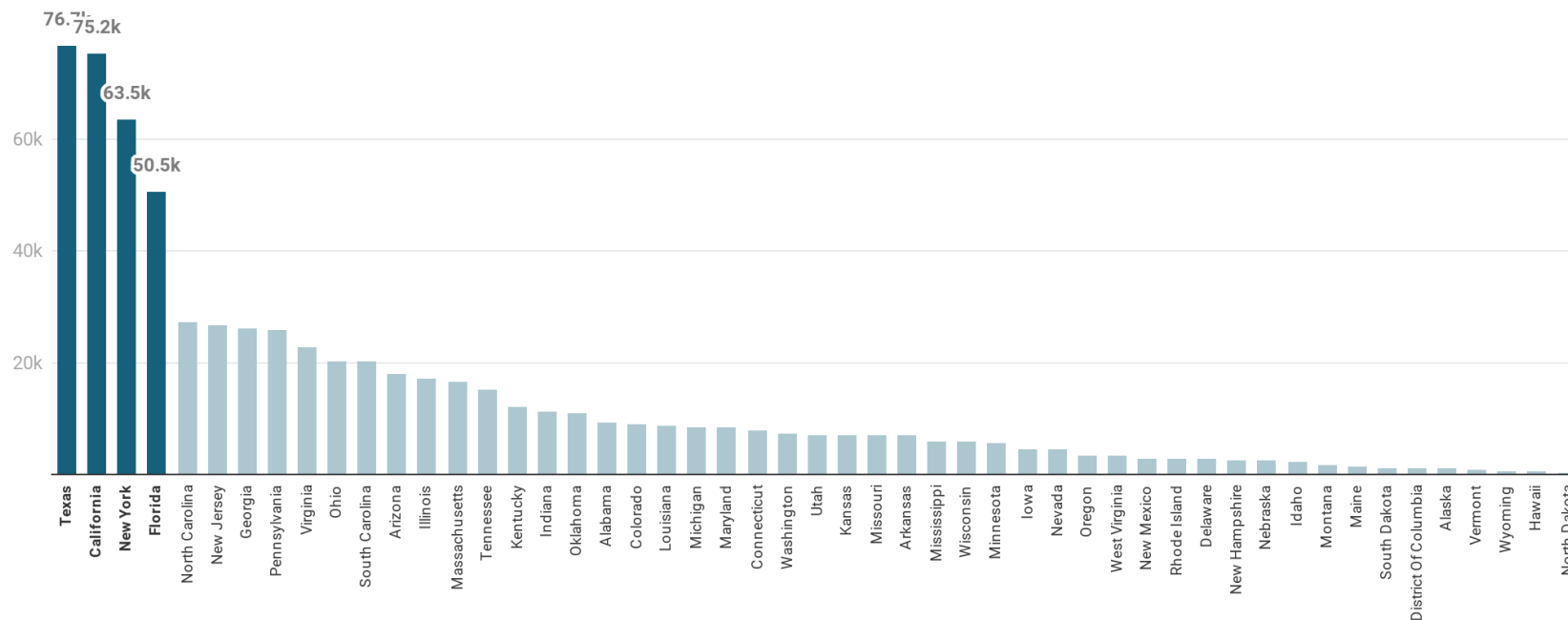


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Covid-19 "Vital Signs"

Week-Over-Week Change in Newly Detected Cases

Texas detected 37,500 fewer new cases last week than the week prior and California, 26,800 fewer. Only four states recorded more new cases than one week earlier; each increase was minor.

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

February 6-12 v. January 30-February 5

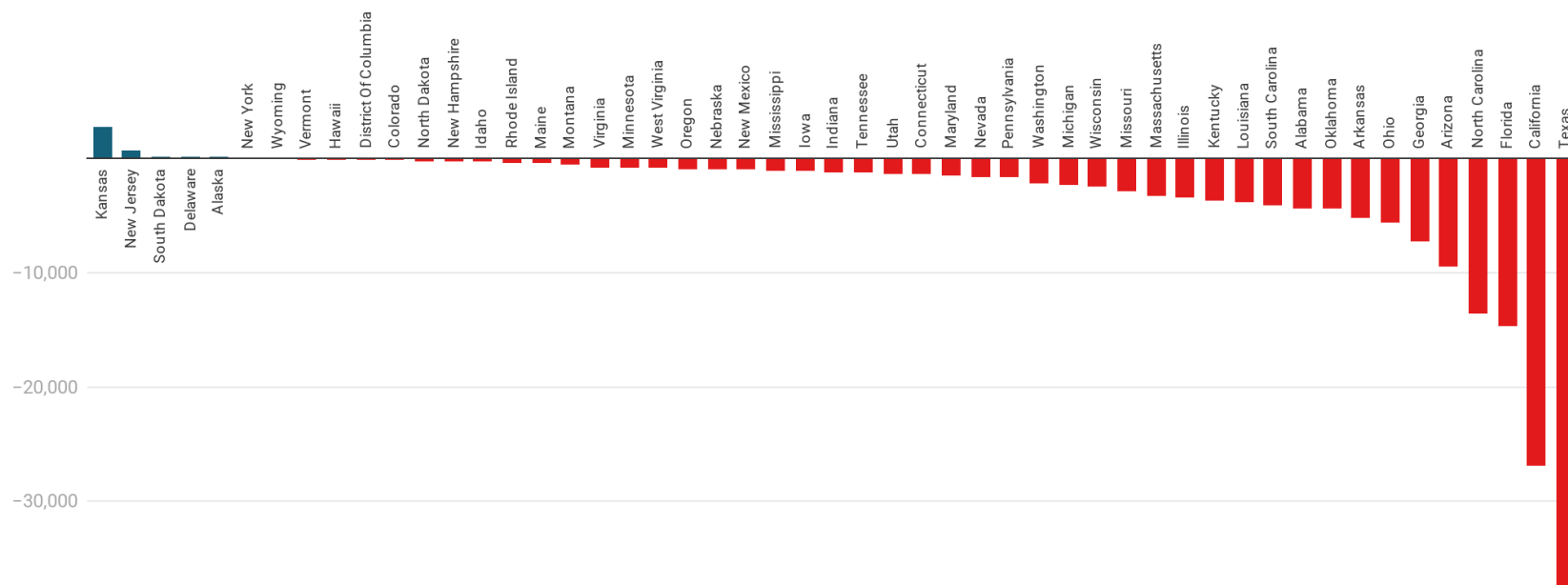


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Test Efficiency: Tests Per Case Detected

Test efficiency strengthened for the fifth successive week, thanks to an improving test-positivity and falling cases.

Weekly Tests / Newly Detected Case - United States

For the 7 days ending on date shown

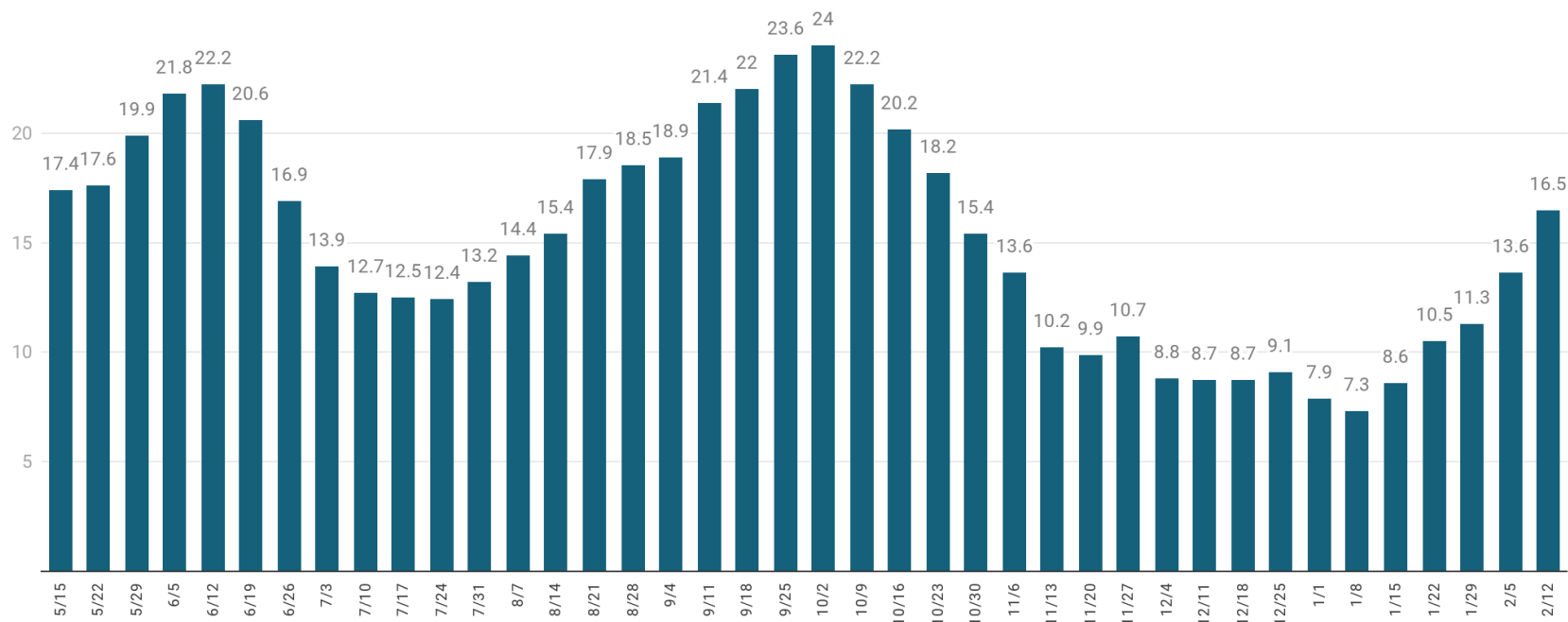


Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project & worldometers.info • Created with Datawrapper



Active Cases

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

Current Active Cases - United States

For the 7 days ending on date shown

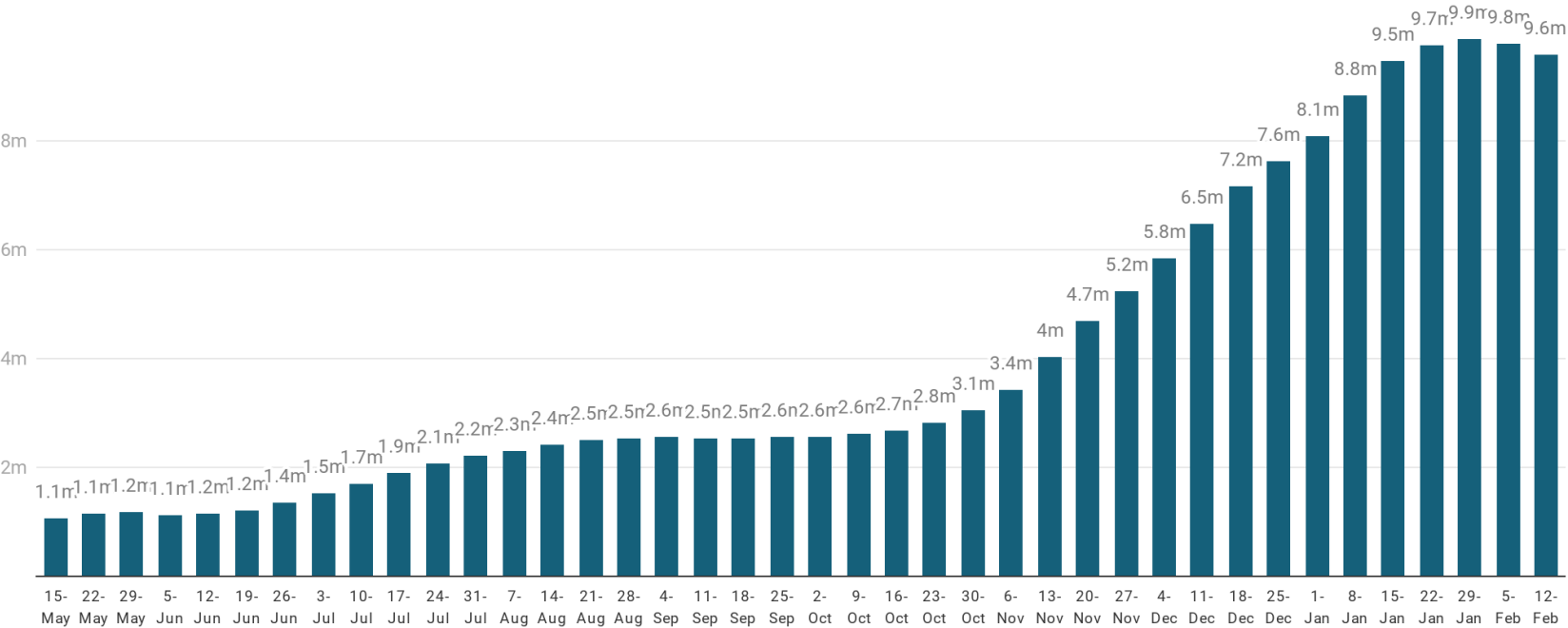


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

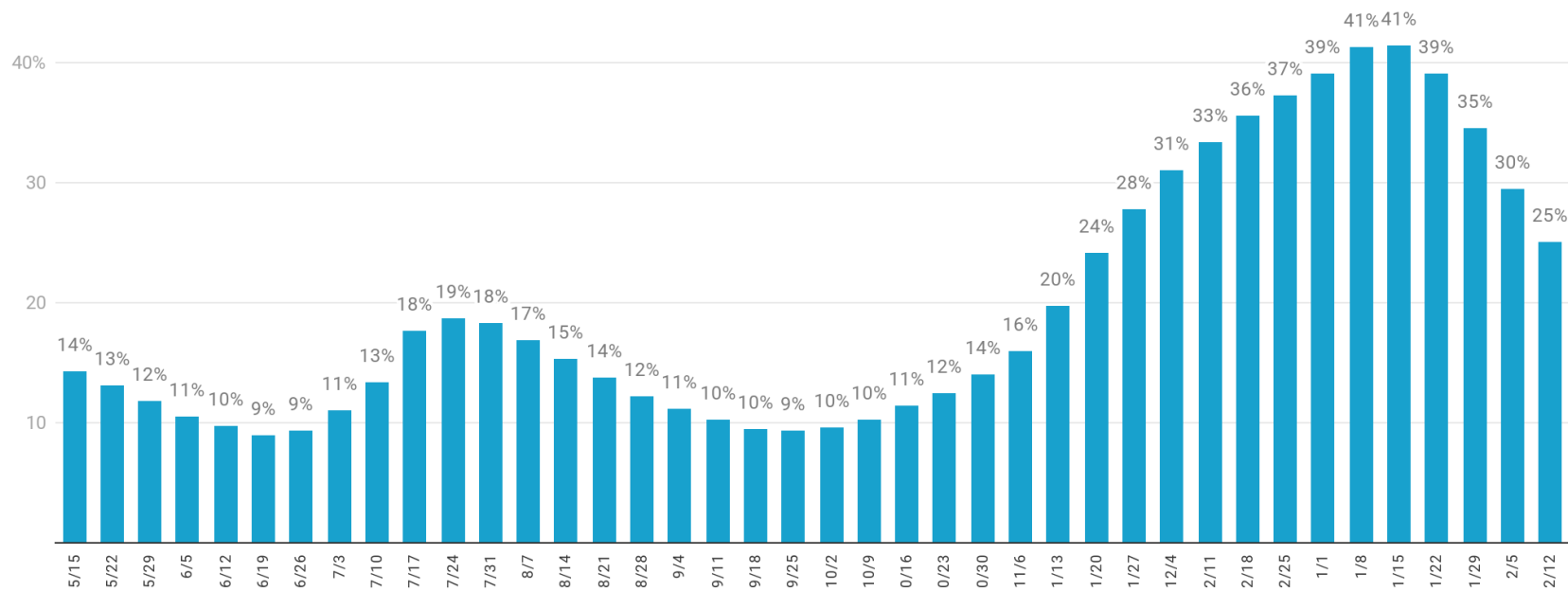
Covid-19 "Vital Signs"

Covid-19 Hospital Occupancy

Covid-19 patients spent fewer days in the hospital for the fourth straight week. Covid-19 occupancy fell to its lowest rate since the week before Thanksgiving.

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 further in the coming weeks.

Covid-19 Inpatient Days / 100 New Cases

For the 7 days ending on the date shown

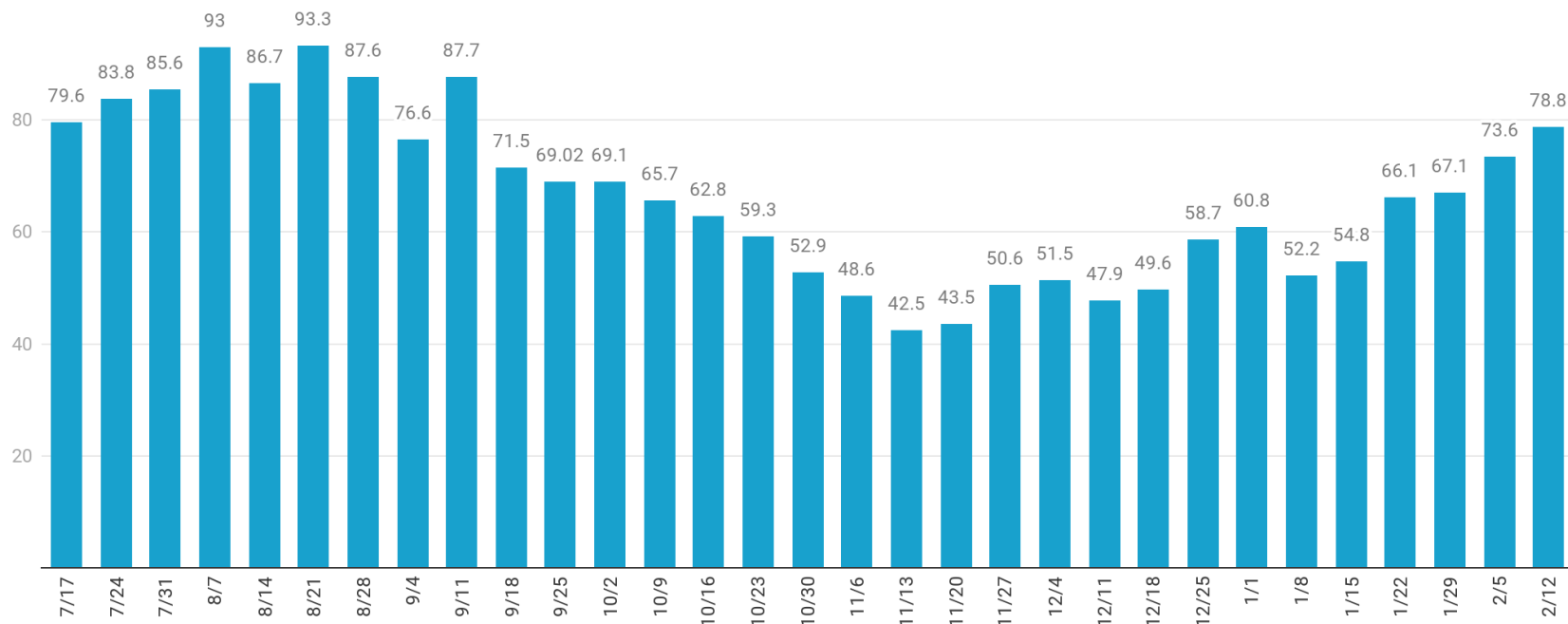


Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project & worldometers.info • Created with Datawrapper

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

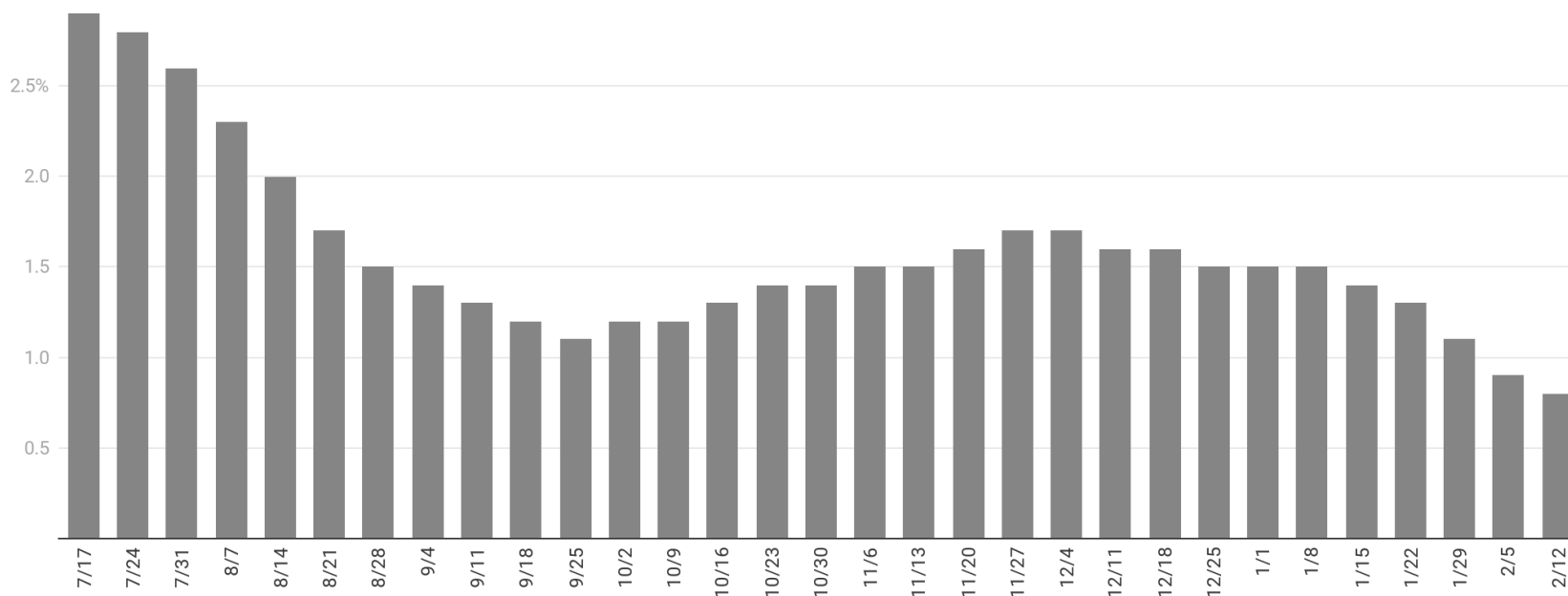


Chart: Health Industry Advisor LLC • Source: The Atlantic and worldometers.info • Created with Datawrapper

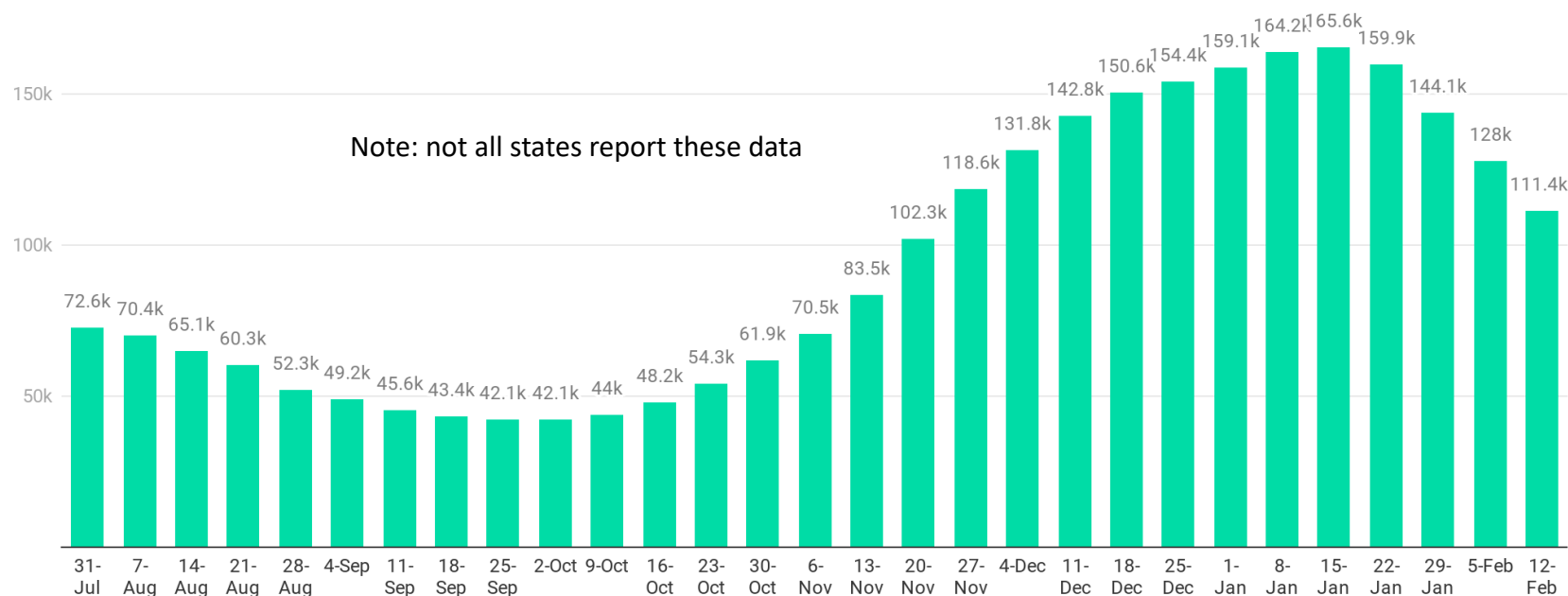
Covid-19 "Vital Signs"

Covid-19 ICU Patient Days

Covid-19 ICU patient days declined for the fourth straight week,. There were fewer Covid-19 patients in the ICU last week than any week since November 14-20.

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

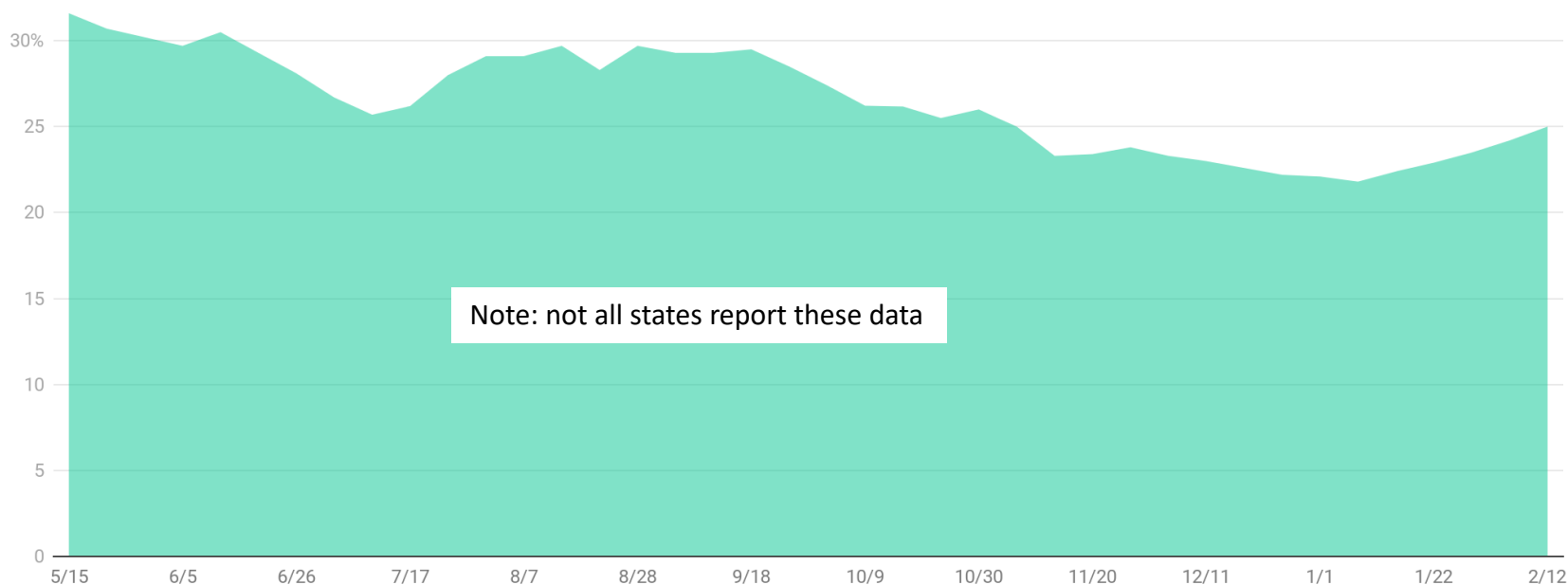
Covid-19 "Vital Signs"

Mix of Covid-19 Patients: % in ICU

The % of Covid-19 patients requiring intensive care increased each of 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"

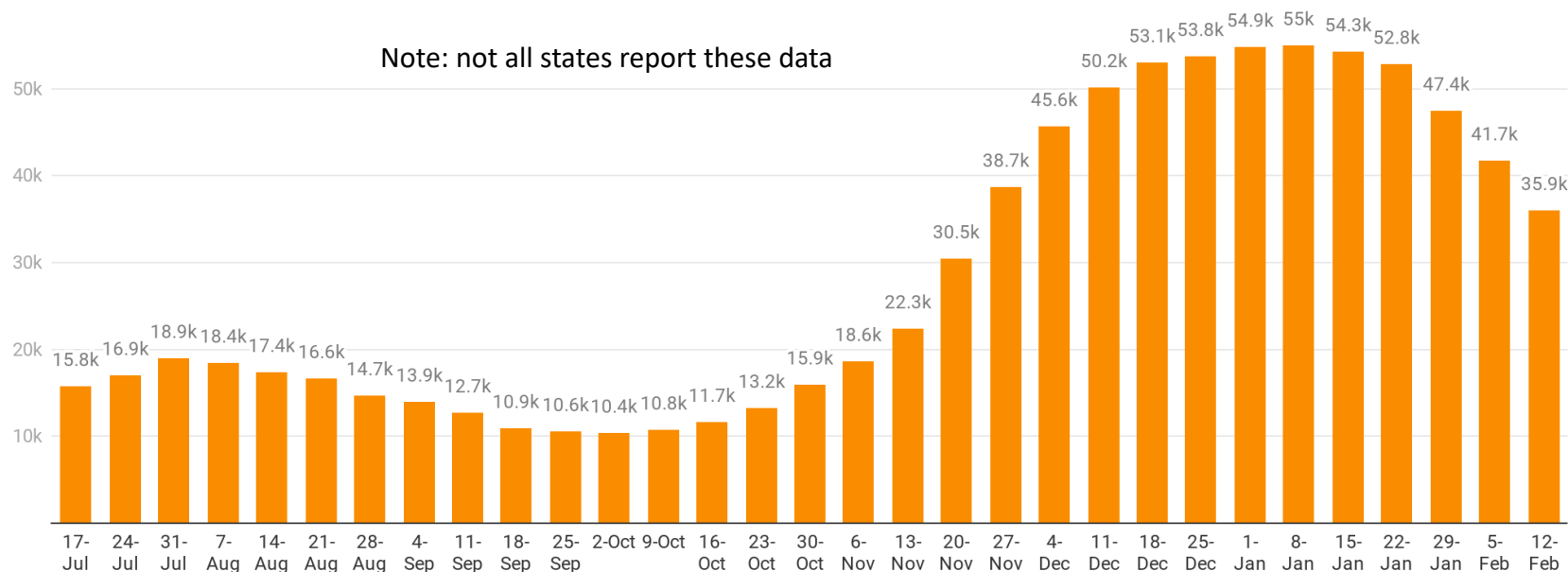
Covid-19 Ventilator Days

Covid-19 ventilator days dropped for the fifth straight week. There were 19,000 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

Note: not all states report these data



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

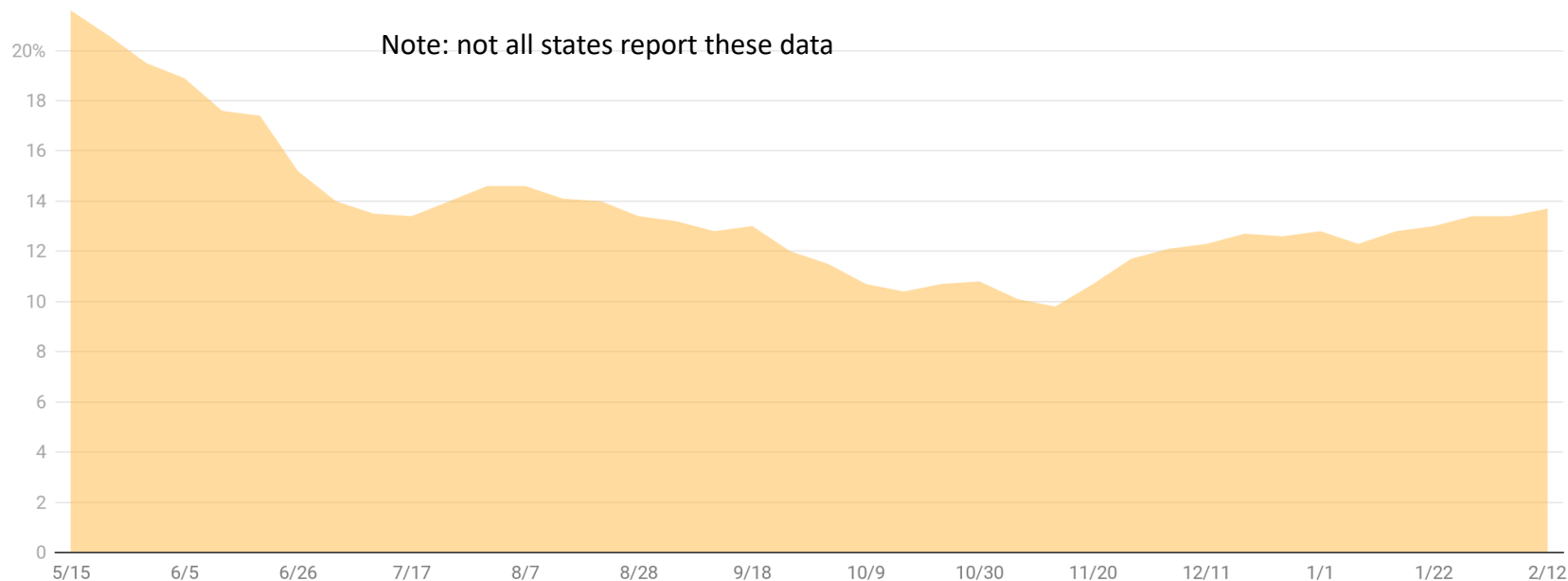
Covid-19 "Vital Signs"

Mix of Covid-19 Patients: % on Ventilators

The % of Covid-19 patients requiring ventilator care has inched upward since the beginning of the year

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

The US is experiencing its mildest flu season in at least five years.

% of Visits For Influenza-Like Illnesses, National Summary

By Week & Flu Season

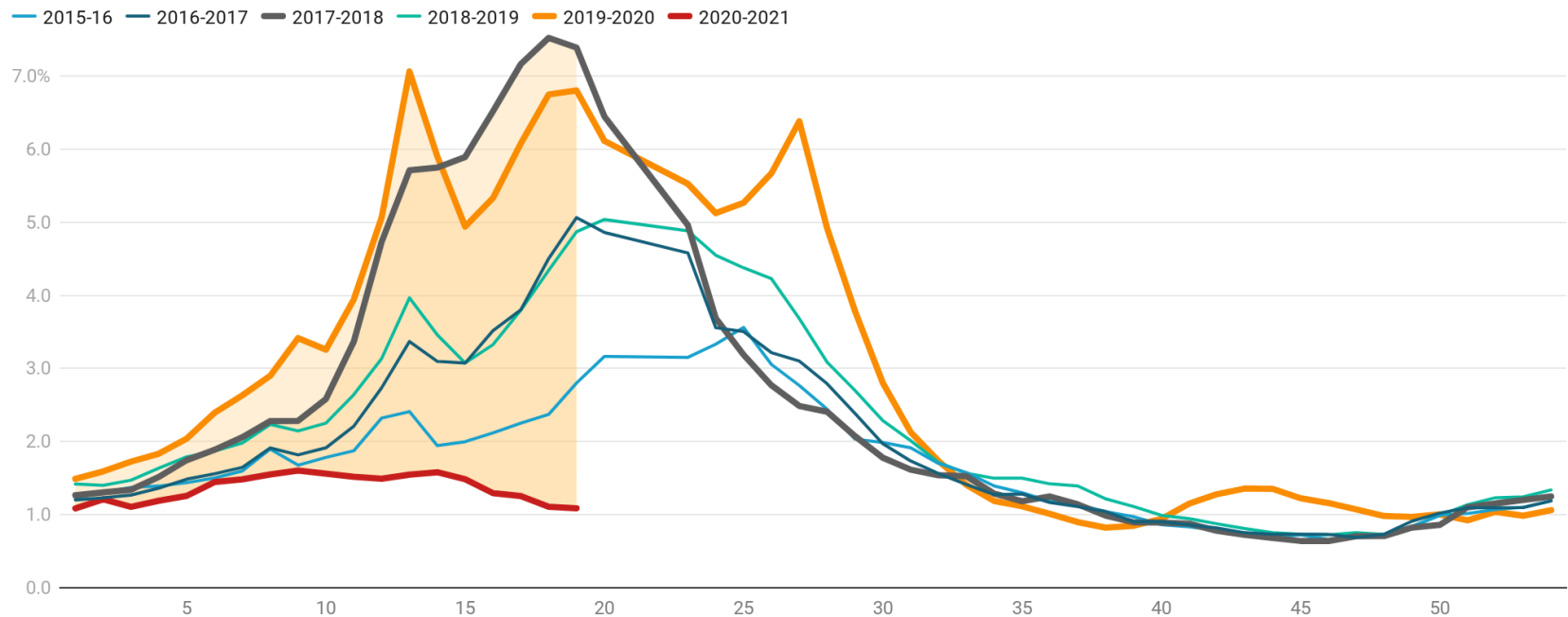


Chart: Health Industry Advisor LLC • Source: Centers for Disease Control & Prevention • Created with Datawrapper

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 each of the previous five weeks.

Weekly Deaths - United States

For the 7 days ending on date shown

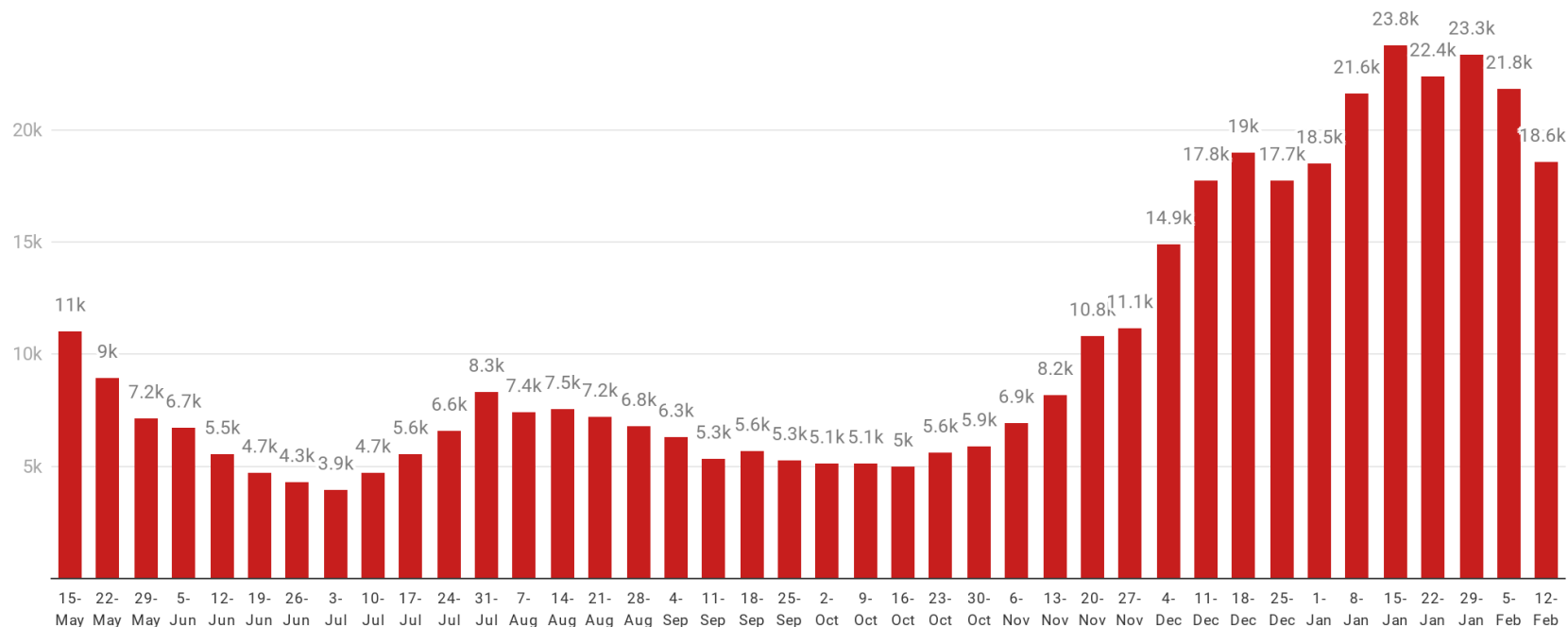


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Sources

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

- 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>