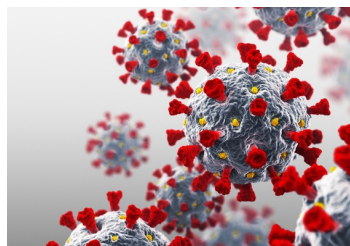


Covid-19 "Vital Signs"

Issue # 310

March 31, 2021



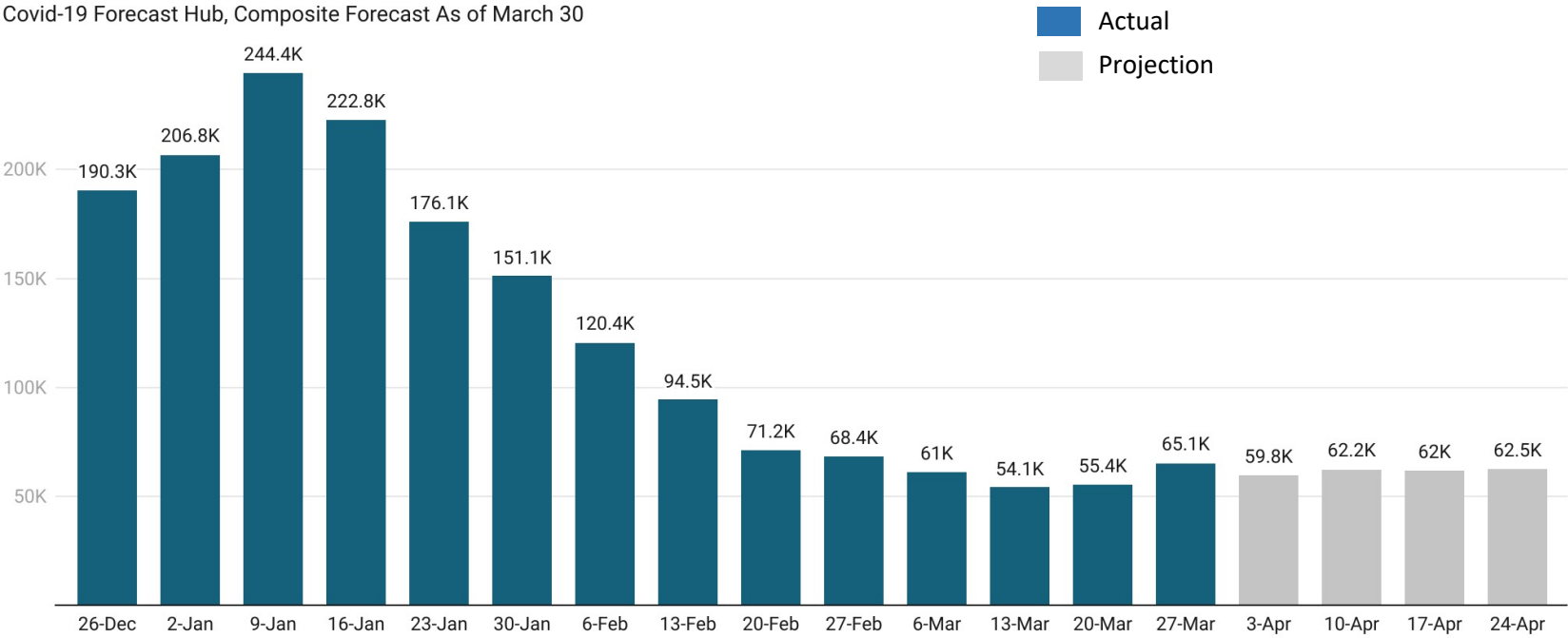


Covid-19 Cases: Ensemble Forecast

The most recent ensemble forecast projects that new daily cases be essentially flat over the next four weeks.

Newly-Detected Cases Per Day

Covid-19 Forecast Hub, Composite Forecast As of March 30



For the week ending on the date shown

Chart: Health Industry Advisor LLC • Source: Covid-19 Forecast Hub

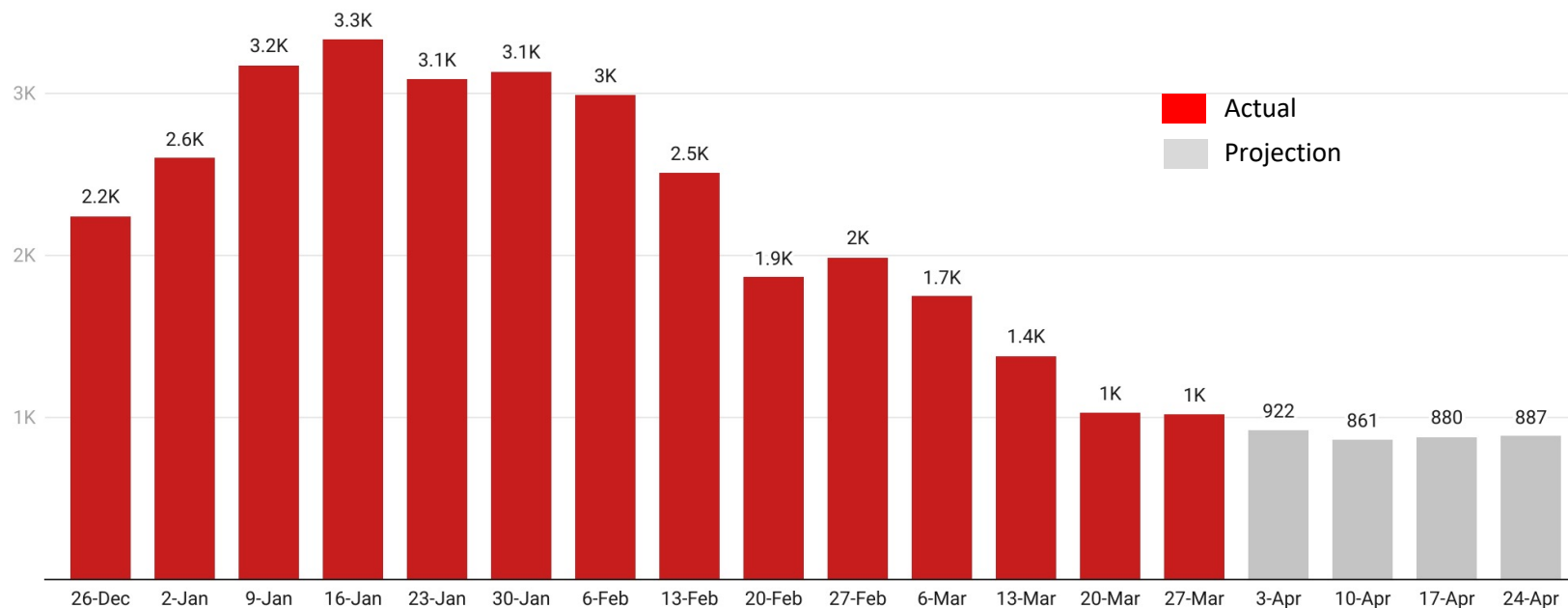
<https://viz.covid19forecasthub.org>

Death Projections – Ensemble Forecast

The most recent ensemble forecast projects that deaths will drop g below 1,000 daily this week, then remain fairly level for the next fee weeks.

Newly-Reported Deaths Per Day

Covid-19 Forecast Hub, Composite Forecast As of March 30



For the week ending on the date shown

Chart: Health Industry Advisor LLC • Source: Covid-19 Forecast Hub • Created with Datawrapper

<https://viz.covid19forecasthub.org>

Covid-19 "Vital Signs"

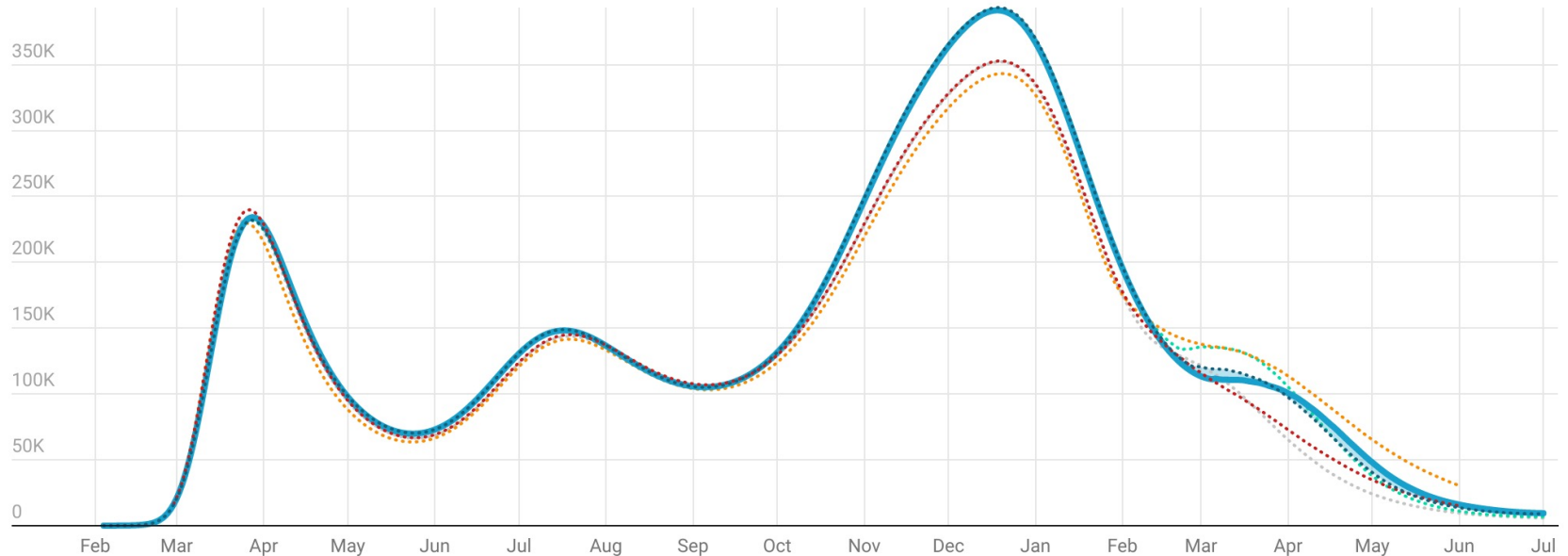
Estimated Infections IHME Projection

Daily infections drop by half from the end of March to the end of April and by two-thirds from the end of May to the end of June. By April 20th, projected infections fall lower than at any time since the first week in March 2020.

Estimated & Projected Covid-19 Infections

Institute for Health Metrics & Evaluation

— 25-Mar ··· 17-Mar ··· 11-Mar ··· 6-Mar ··· 25-Feb ··· 20-Feb



Date reflects date forecast was published

Chart: Health Industry Advisor LLC • Source: Institute for Health Metrics and Evaluation • Created with Datawrapper

Covid-19 "Vital Signs"

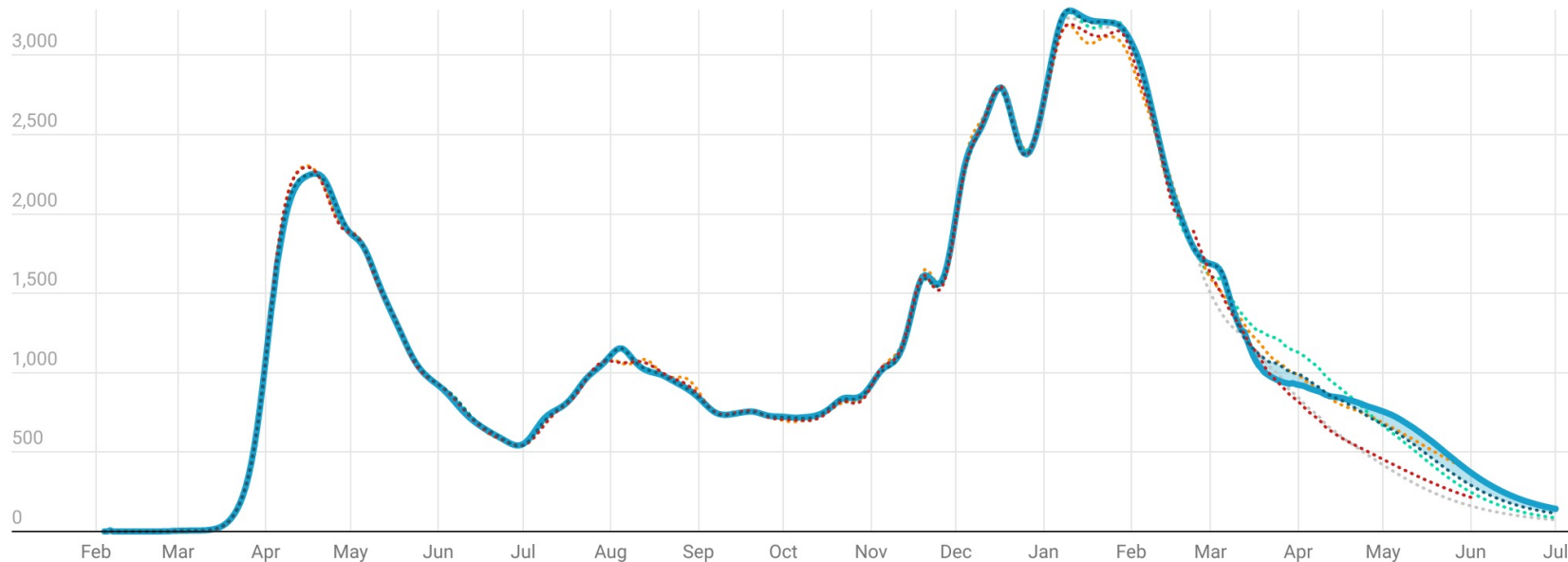
Covid-19 Inpatient Admissions – IHME Projections

Projected Covid-19 admissions decline an average of 1.6% daily in April and 3.7% in May. By May 2nd, projected admissions fall lower than at any time since the pandemic surged in mid-March 2020.

Estimated & Projected Deaths With Covid-19 Admissions

Institute for Health Metrics & Evaluation

— 25-Mar ··· 17-Mar ··· 11-Mar ··· 6-Mar ··· 25-Feb ··· 20-Feb



Date reflects date forecast was published

Chart: Health Industry Advisor LLC • Source: Institute for Health Metrics and Evaluation • Created with Datawrapper

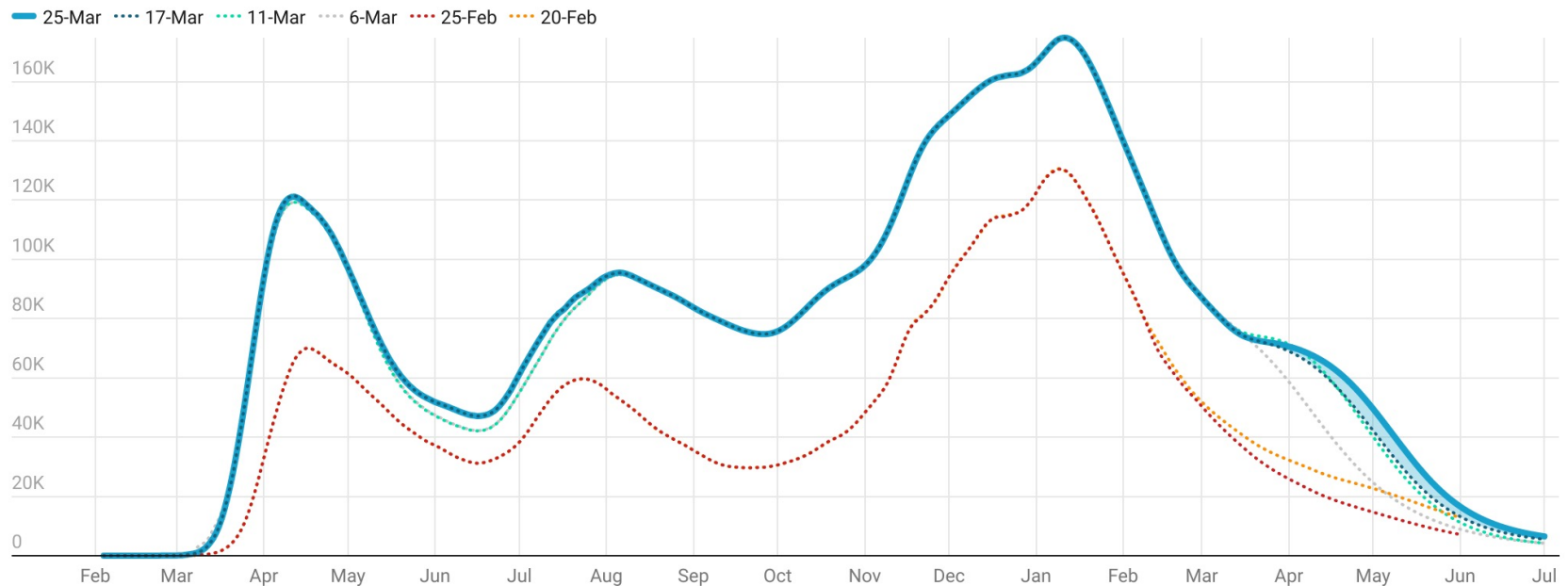
Covid-19 "Vital Signs"

Covid-19 Inpatients – IHME Projections

Projected Covid-19 inpatients drops in half by mid-May and in half again by the end of May. By May 4th, projected inpatient census falls lower than at any time since the last week in March 2020.

Estimated & Projected Covid-19 Inpatient Days

Institute for Health Metrics & Evaluation



Date reflects date forecast was published

Chart: Health Industry Advisor LLC • Source: Institute for Health Metrics and Evaluation • Created with Datawrapper

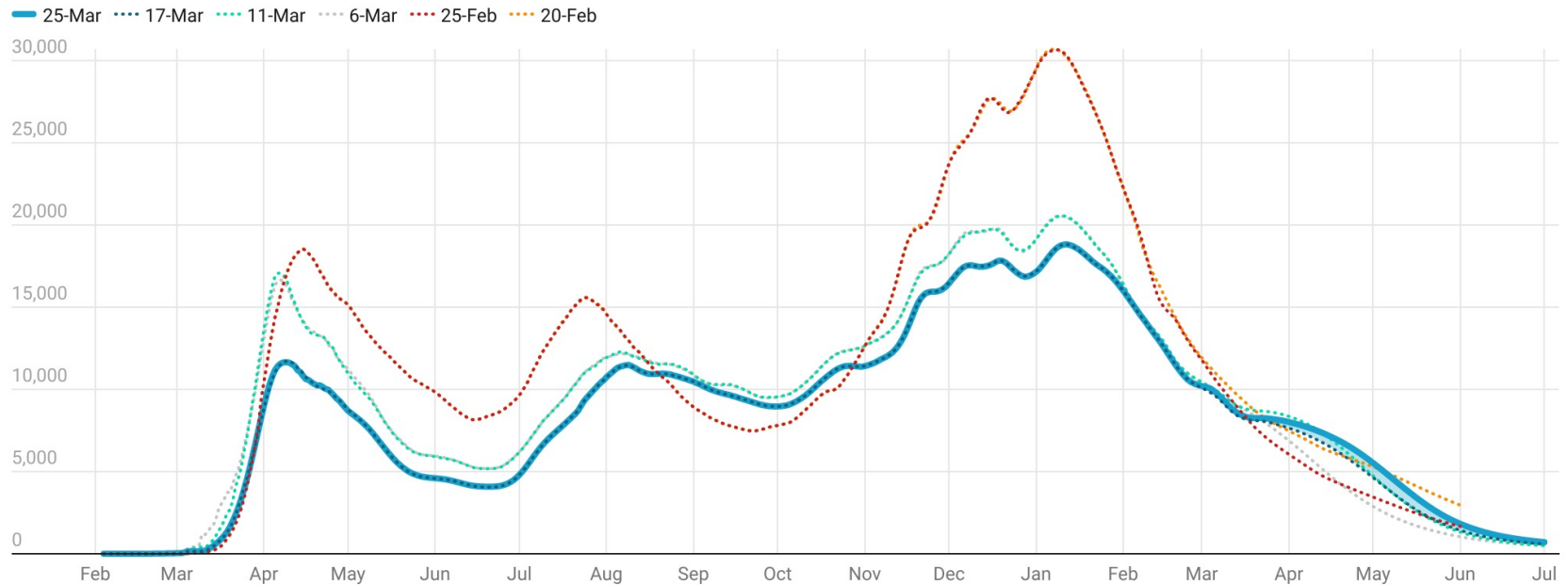
Covid-19 "Vital Signs"

Covid-19 ICU Days – IHME Projections

By May 12th, projected ICU census falls lower than at any time since the last week in March 2020.

Estimated & Projected Covid-19 ICU Days

Institute for Health Metrics & Evaluation



Date reflects date forecast was published

Chart: Health Industry Advisor LLC • Source: Institute for Health Metrics and Evaluation • Created with Datawrapper

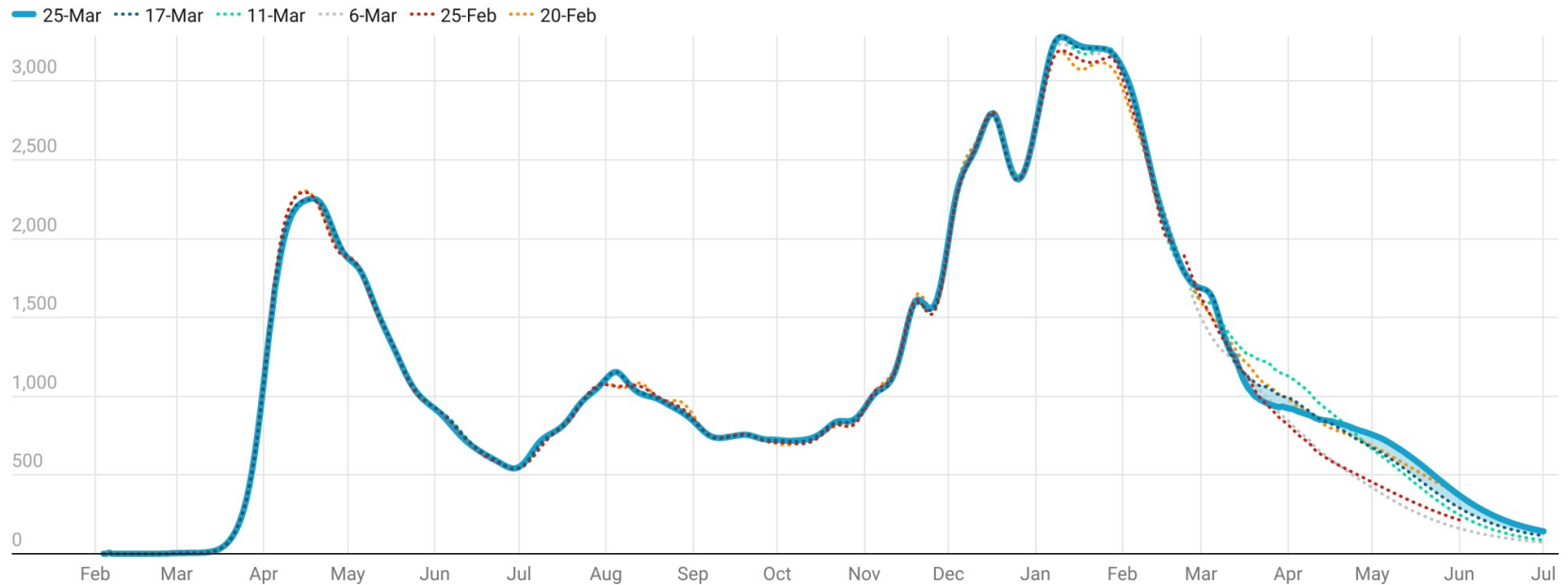
Covid-19 "Vital Signs"

Deaths With Covid-19: IHME Projection

By May 20th, projected Covid-19 deaths fall lower than at any time since the last week in March 2020.

Estimated & Projected Deaths With Covid-19

Institute for Health Metrics & Evaluation



Date reflects date forecast was published

Chart: Health Industry Advisor LLC • Source: Institute for Health Metrics and Evaluation

Covid-19 "Vital Signs"

Doses Per Person

Israel ramped its vaccination process early and has administered more than 1 dose for every resident. The United Kingdom and the United States more slowly than Israel but, much faster than most countries. Chile has accelerated its pace over the past month.

Doses Per Person

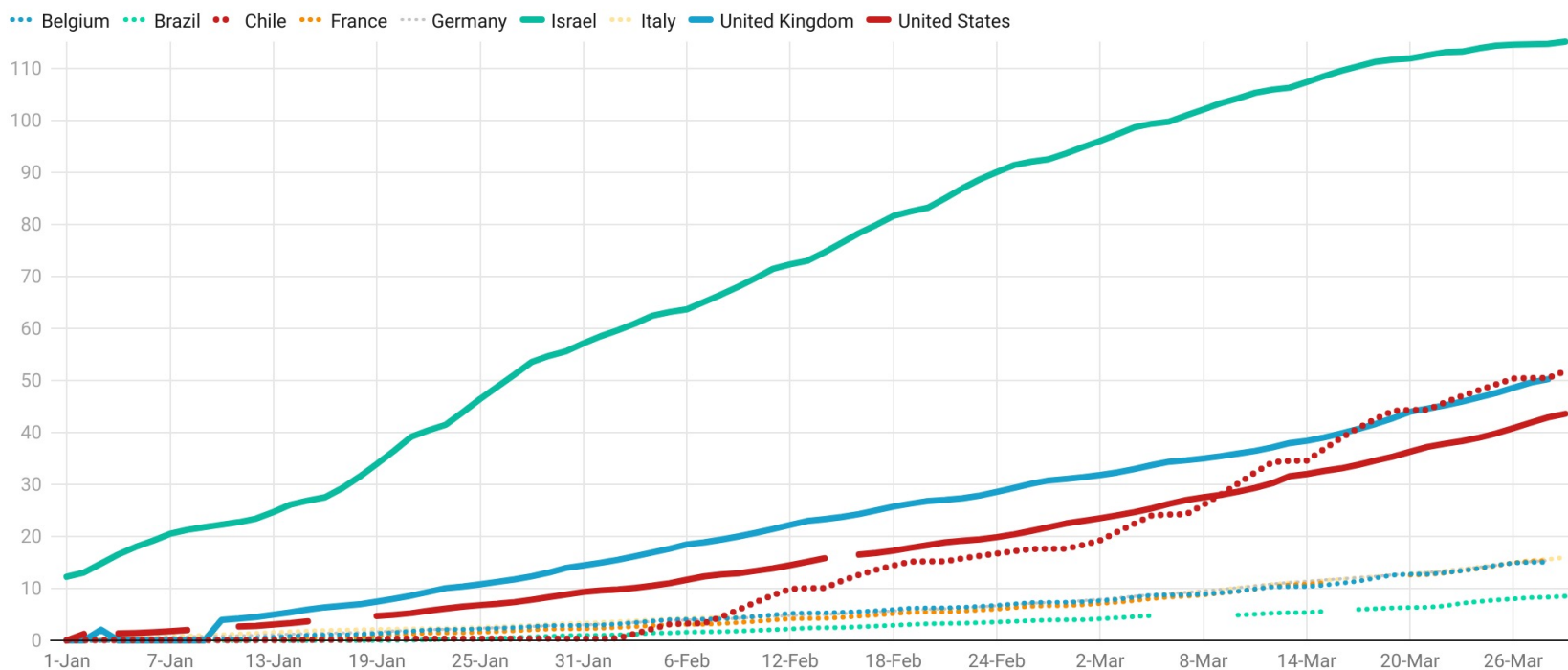


Chart: Health Industry Advisor LLC • Source: Our World in Data

Covid-19 "Vital Signs"

New Cases Per Million

Israel, the United Kingdom, and the United States each suffered staggering case rates early in January, followed by rapid declines through at least February. Many other European and South American countries avoided the early-January surge but are experiencing surging cases lately.

New Cases / Million

7-Day Average

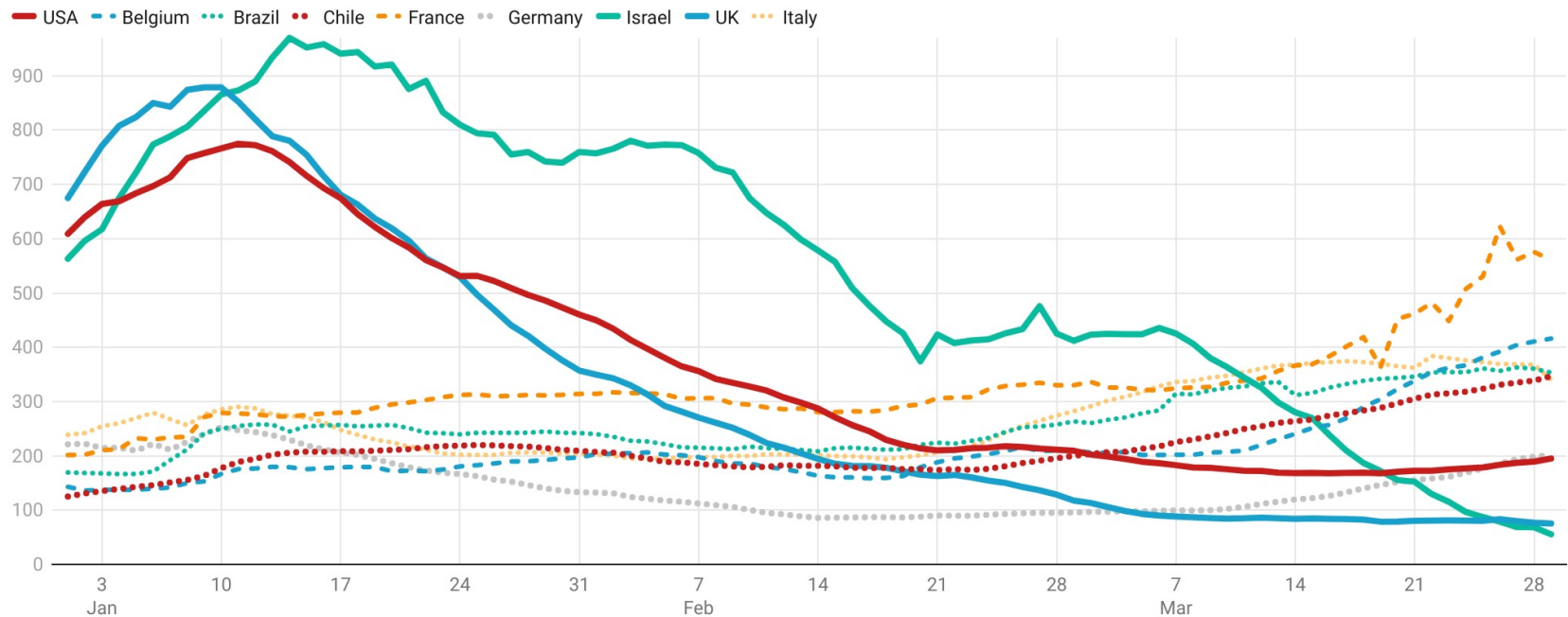
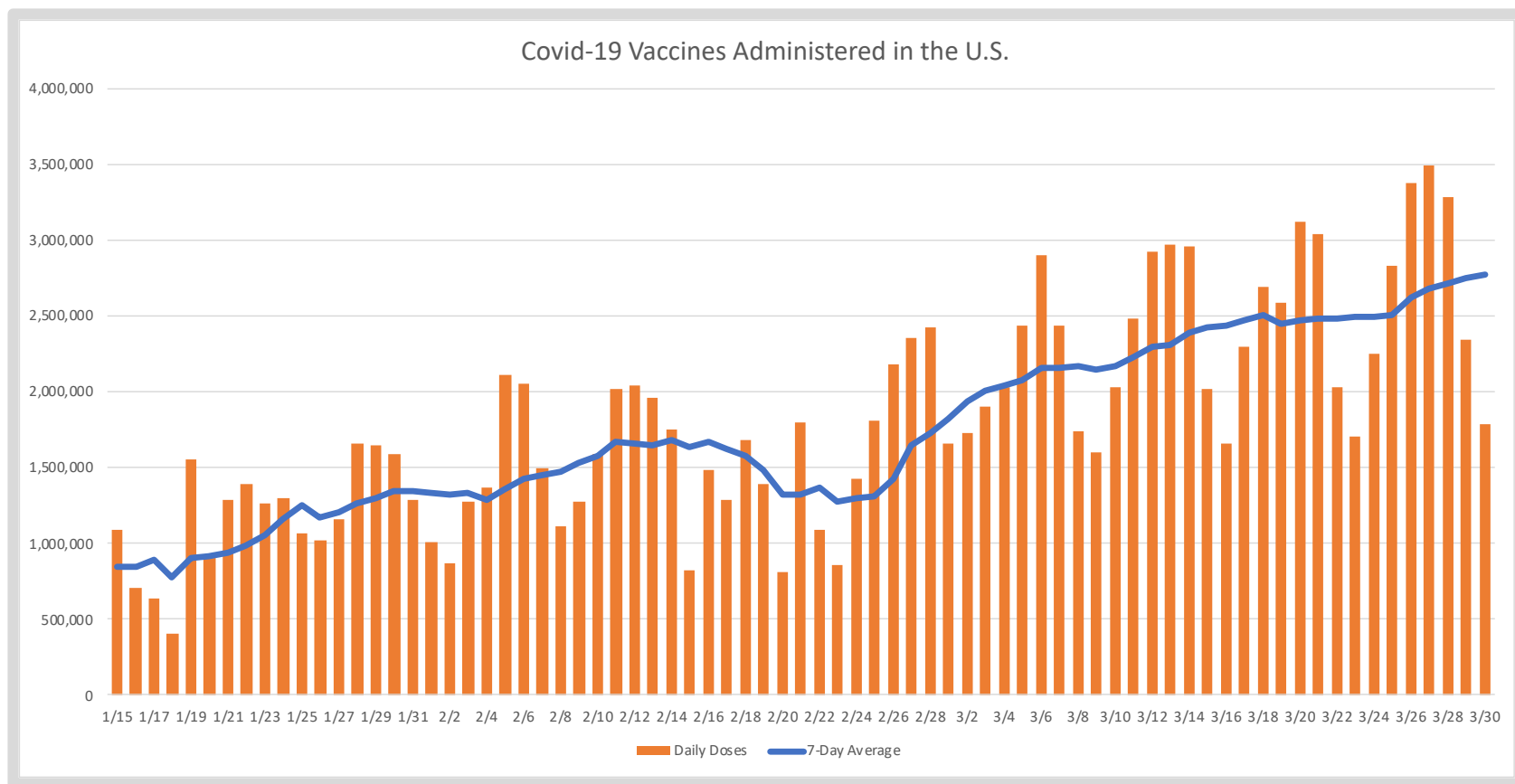


Chart: Health Industry Advisor LLC • Source: worldometers.info

Covid-19 "Vital Signs"

Pace of Vaccinations

The vaccination pace accelerated over the past week. As of yesterday, the U.S. is vaccinating an average of 2.8 million people daily (7-day average). Expect this to continue, as sufficient new doses were distributed this week to vaccinate more than 3.6 million daily.



Covid-19 "Vital Signs"

Vaccine Tracking

To date, the US has administered 148 million doses, with 53 million people fully inoculated – nearly 21% of the adult population. Another 42 million people have received the first of two required doses.

Vaccination Progress

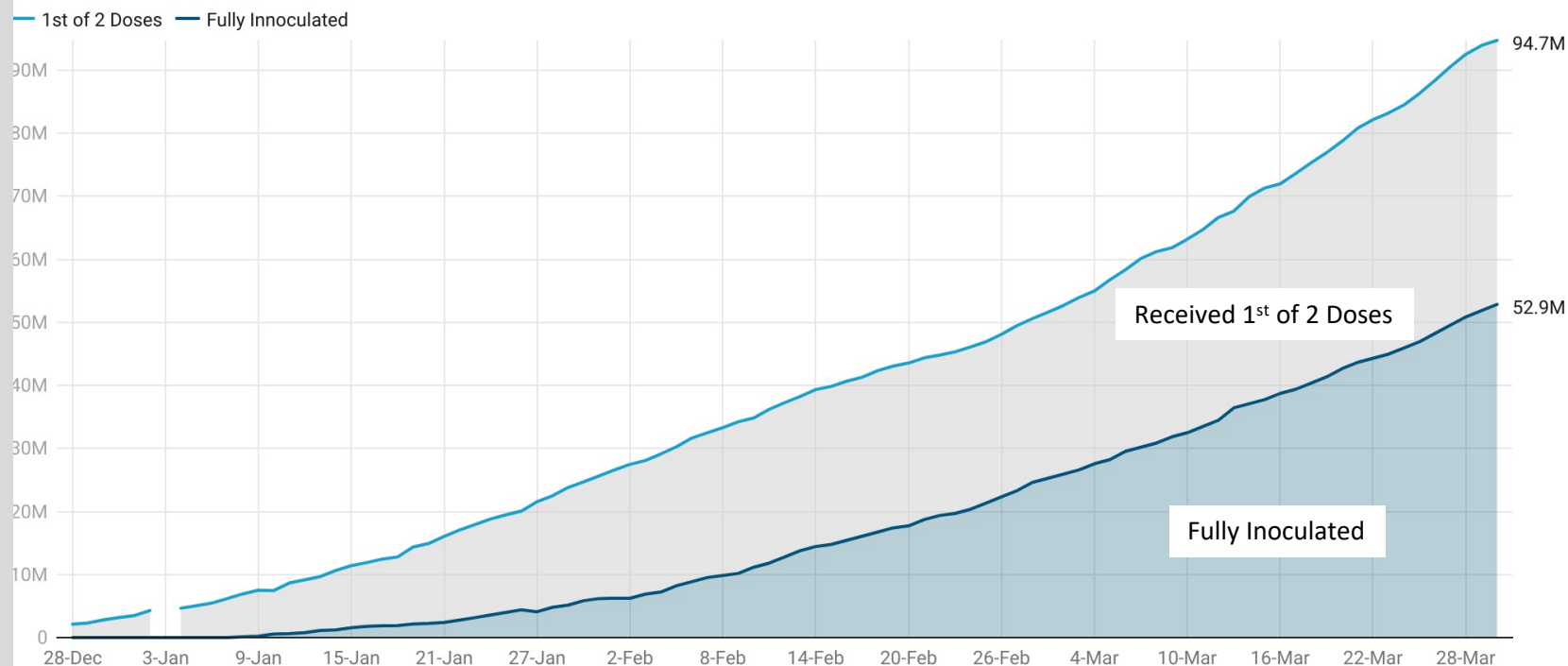


Chart: Health Industry Advisor LLC • Source: CDC, Bloomberg

Vaccine data from: [Centers for Disease Control and Prevention](#) and [Bloomberg Vaccine Tracker](#)

Covid-19 "Vital Signs"

Newly Detected Cases Per Day

In the US, 7-day new case rates increased 12% week-over-week (10% relative to three weeks ago). Outside the U.S., cases increased 14% week-over-week and more than 40% over the last three weeks.

Newly Detected Cases

As of March 30

■ United States ■ Outside the US

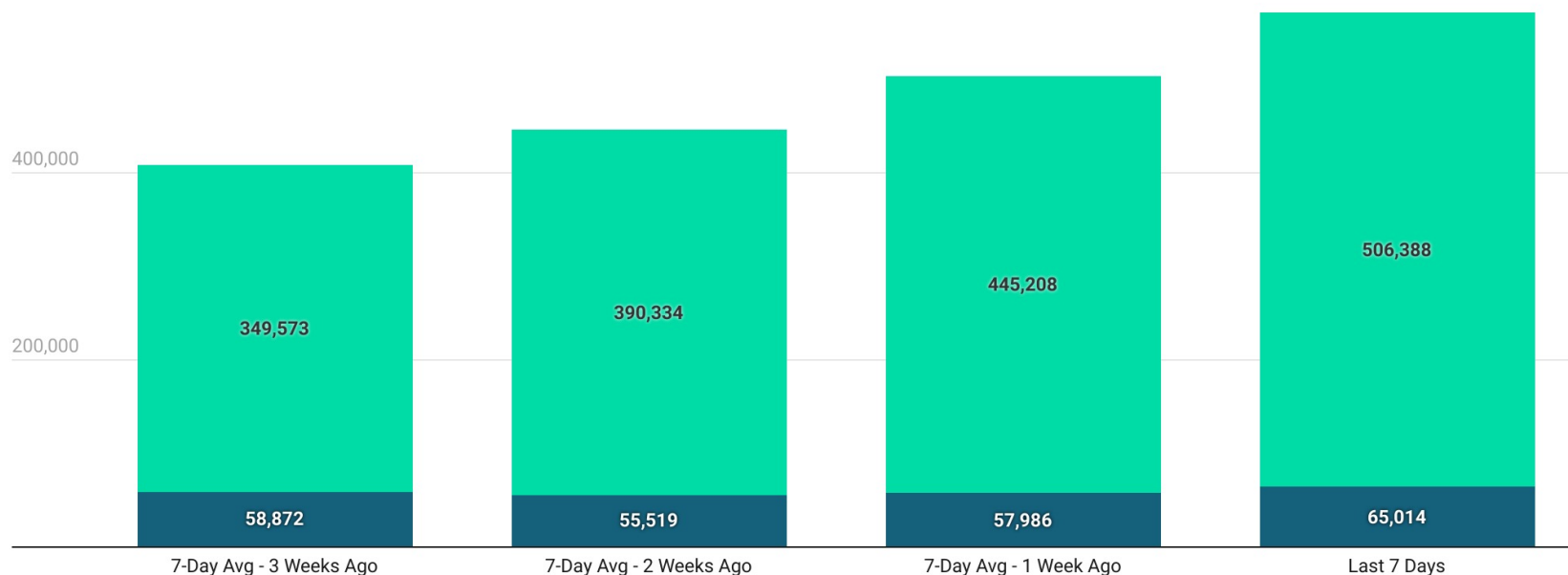


Chart: Health Industry Advisor LLC • Source: The Atlantic

Covid-19 "Vital Signs"

Newly Detected Cases / Million - US

New case rates in the United States rose over the past week but thus far remain lower than during November through February and lower than the late-July peak.

Newly-Detected Cases / Million

7-Day Average

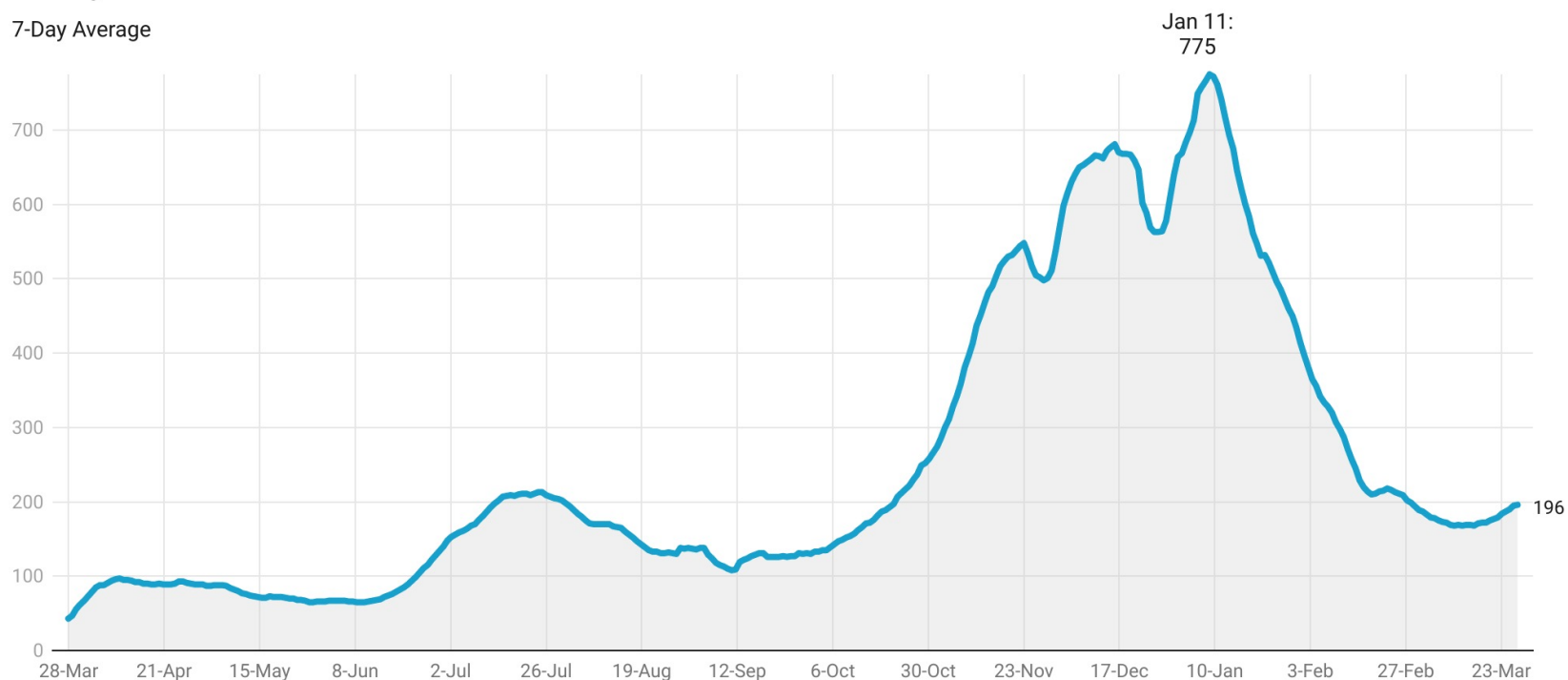


Chart: Health Industry Advisor LLC

Covid-19 "Vital Signs"

Test-Positivity Rate

The 7-day test-positivity rate increase over the last several days. However, this rate remains strong by historical levels and below the target set by the World Health Organization.

Test-Positivity Rate

7-Day Average, Through March 30

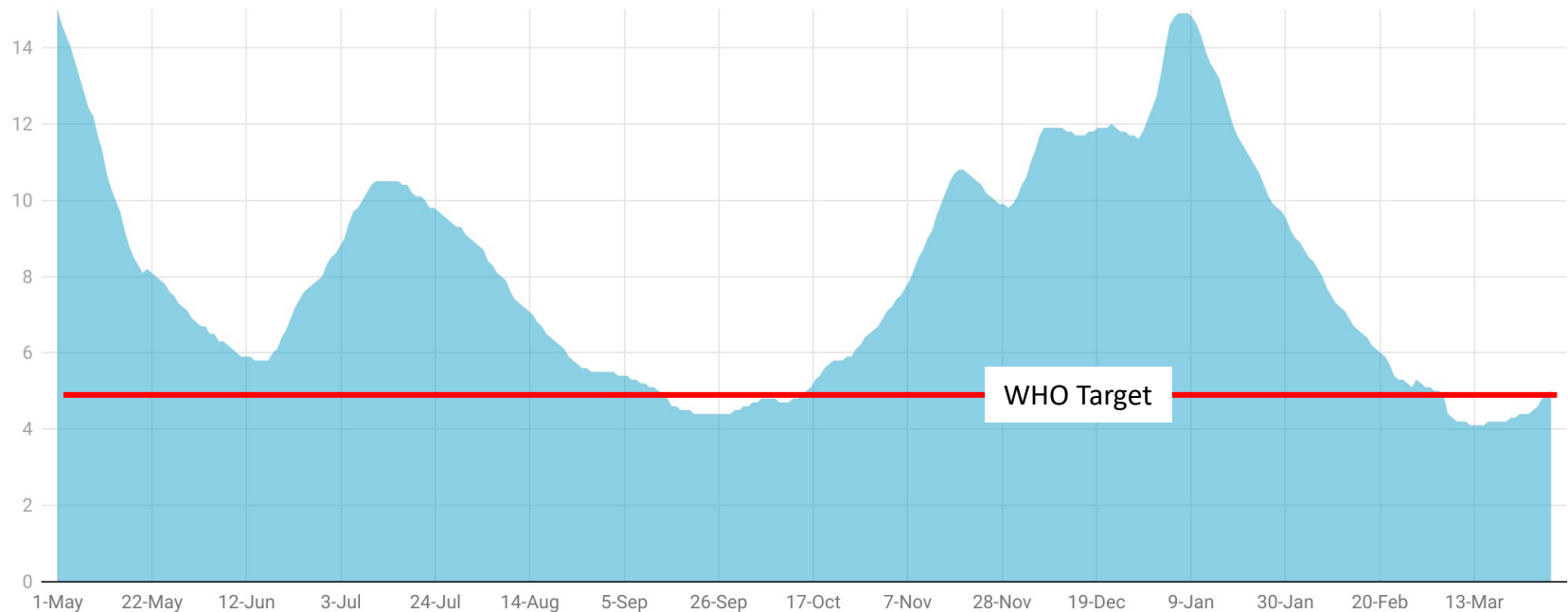


Chart: Health Industry advisor LLC • Source: U.S. Department of Health & Human Services

Test-Positivity Rate

The test-positivity rate increased slightly last week yet remains at or below the suggested WHO target.

Test-Positivity Rate

As of March 30

Note: California's data is several days behind. That state's test volume is typically high and its positivity rate low (2%). As a result, the "Last 7 Day" rate depicted here is likely overstated.

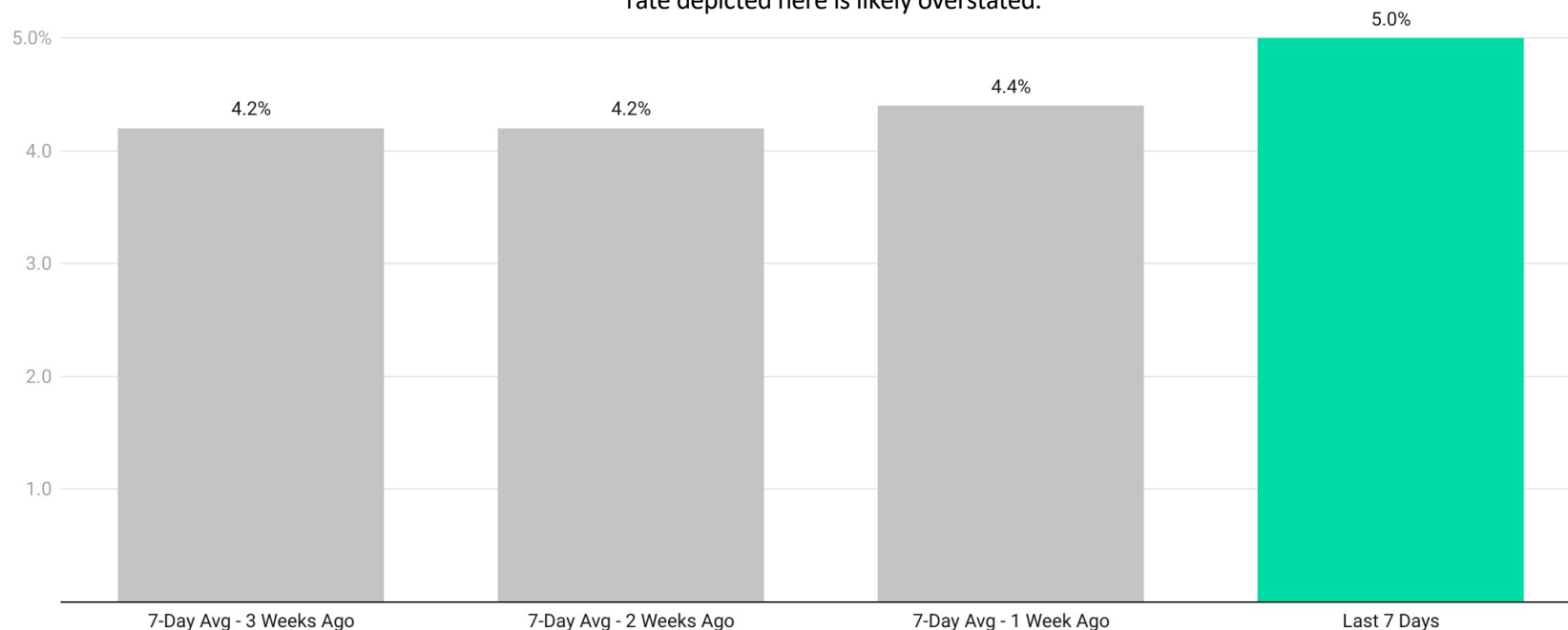


Chart: Health Industry Advisor LLC • Source: The Atlantic

Covid-19 "Vital Signs"

Covid-19 Inpatient Census

Covid-19 inpatient census was relatively stable over the past two weeks, despite the increase in new cases.

Hospitalized Covid-19 Patients

Compared to Same Day, Prior Weeks, As of March 30

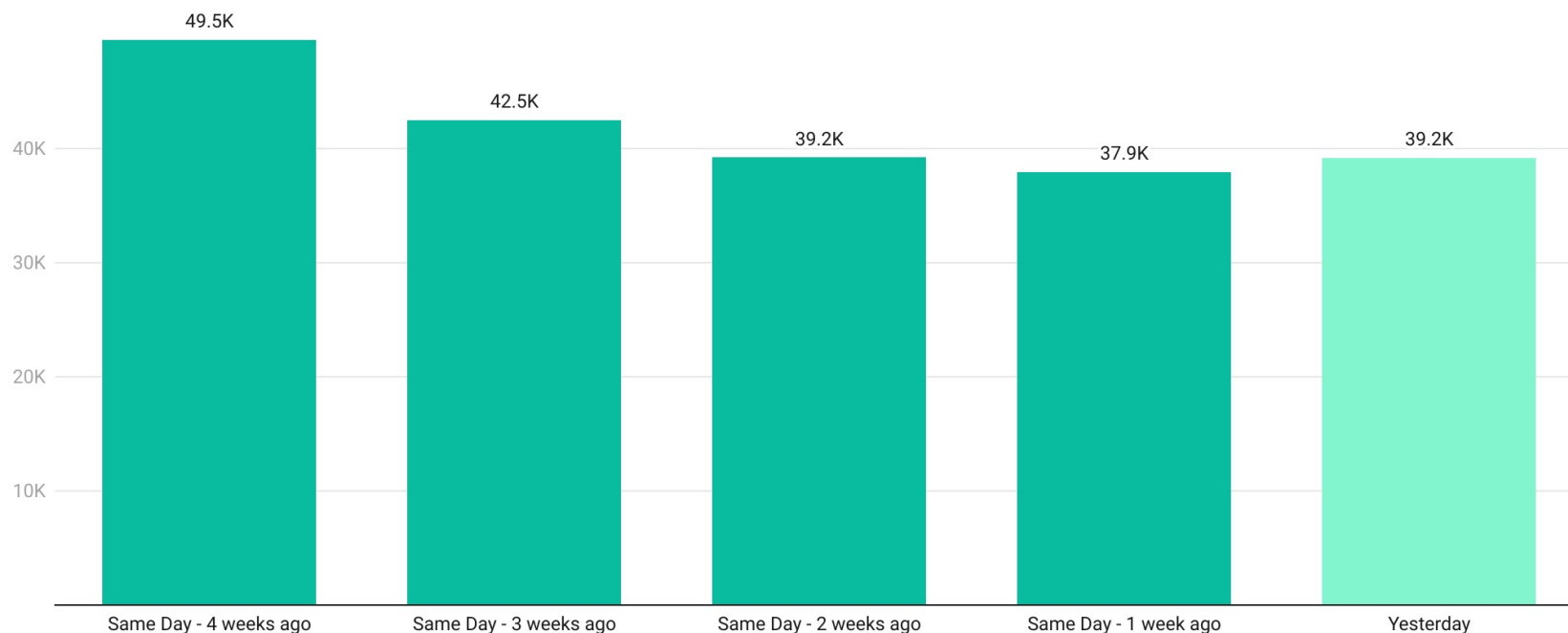


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services

Covid-19 "Vital Signs"

Deaths With Coronavirus

Deaths with coronavirus (7-day average) have declined by 70% since a peak in late January. This rate is lower than at any time in the last twenty weeks.

Deaths With Coronavirus

7-Day Average, Through March 30



Chart: Health Industry Advisor LLC

Covid-19 "Vital Signs"

Deaths Reported With Coronavirus

The 7-day average death rate fell 4% from last week and 35% in three weeks. This 7-day rate has not been lower than 1,000 since the beginning of November.

Daily Deaths Reported With Coronavirus

As of March 30

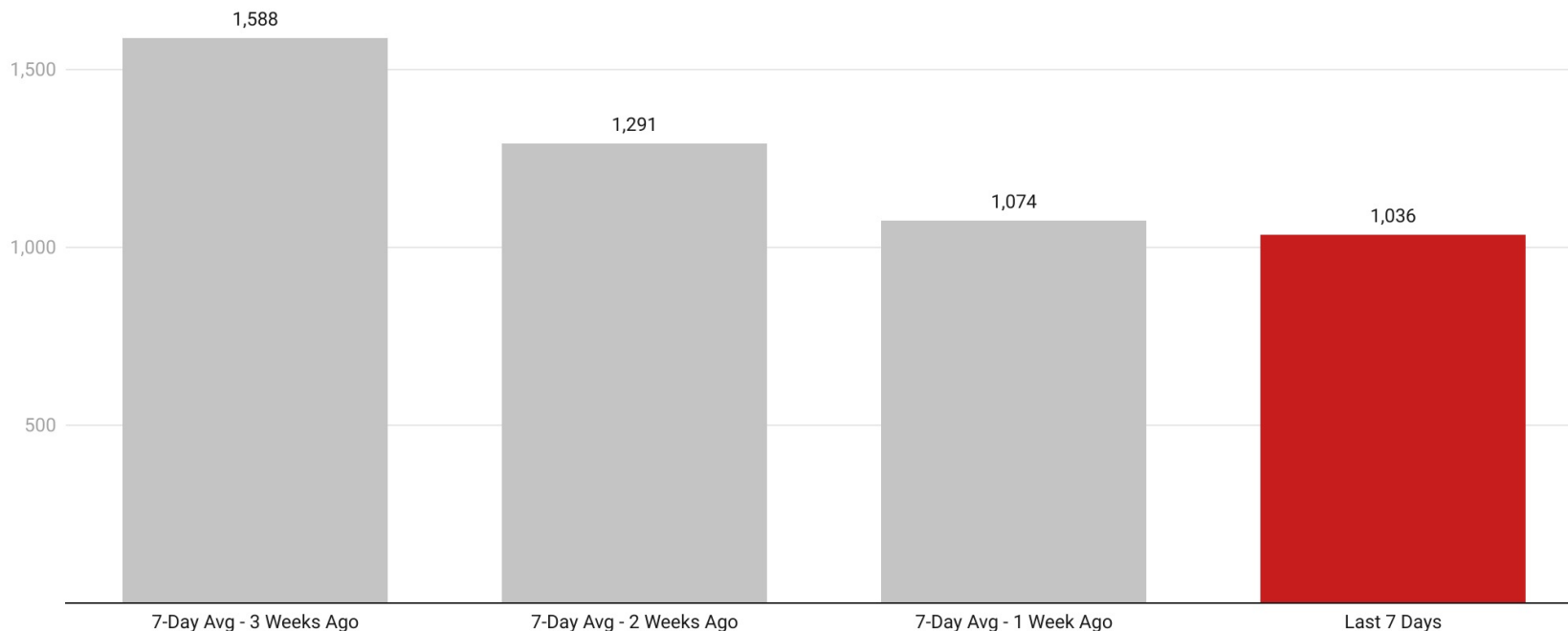


Chart: Health Industry Advisor LLC • Source: The Atlantic

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>