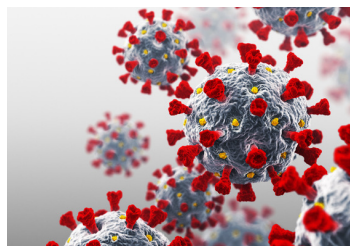


Covid-19 "Vital Signs"

Issue # 341

June 2, 2021



Vaccination Status By Age

86% of seniors are participating in the vaccination process; 75% are fully vaccinated. 57% of younger adults have received at least one shot; 46% are fully vaccinated. Eleven percent of 12-to-17-year-olds have started vaccinations.

Vaccination Status By Age

As of May 31

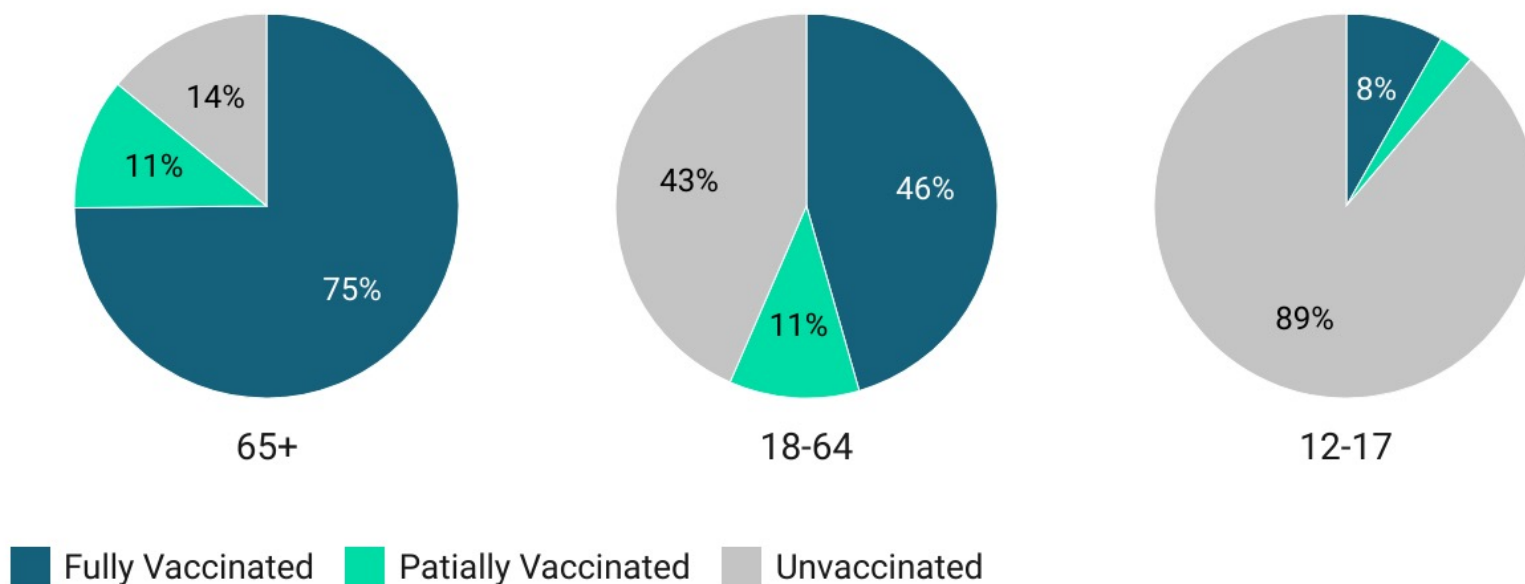


Chart: Health Industry Advisor LLC • Source: CDC • Created with Datawrapper

Estimated Immunity By State

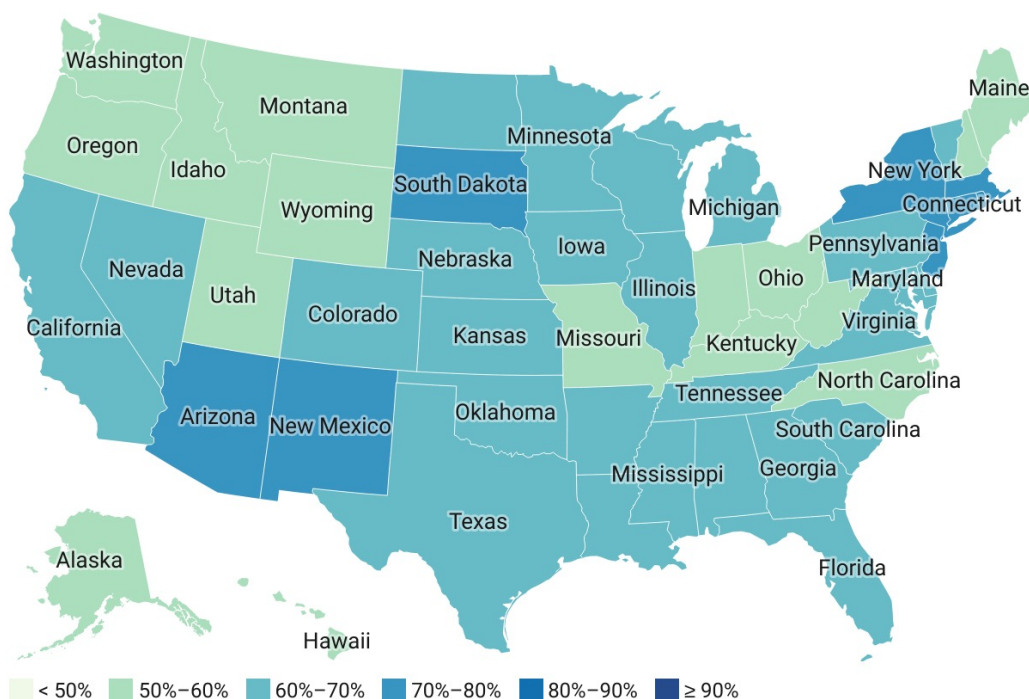
Estimated immunity is highest in Arizona, Connecticut, Massachusetts, New Jersey, New Mexico, New York, Rhode Island, and South Dakota.

- Public health experts have suggested that 60-80% of the population would need immunity, for herd immunity to be reached
- Immunity could result from an infection or via vaccination
- It is not established how long immunity, from either infection or vaccination, will last
- For purposes of this illustration, we use both reported vaccination rates and the Yale/Harvard* mean estimates of true infections

* <https://covidestim.org>

Estimated Immunity Prevalence, As of June 1

Based on Vaccinations To-Date & Harvard/Yale Estimated Infection Model



Presumed 14-day lag for immunity.

Map: Health Industry Advisor LLC • Source: Harvard/Yale Schools of Public Health • Created with Datawrapper

Newly Detected Cases

New cases declined last week, falling to the lowest point since March 29, 2020.

Newly-Detected Cases / Million

7-Day Average

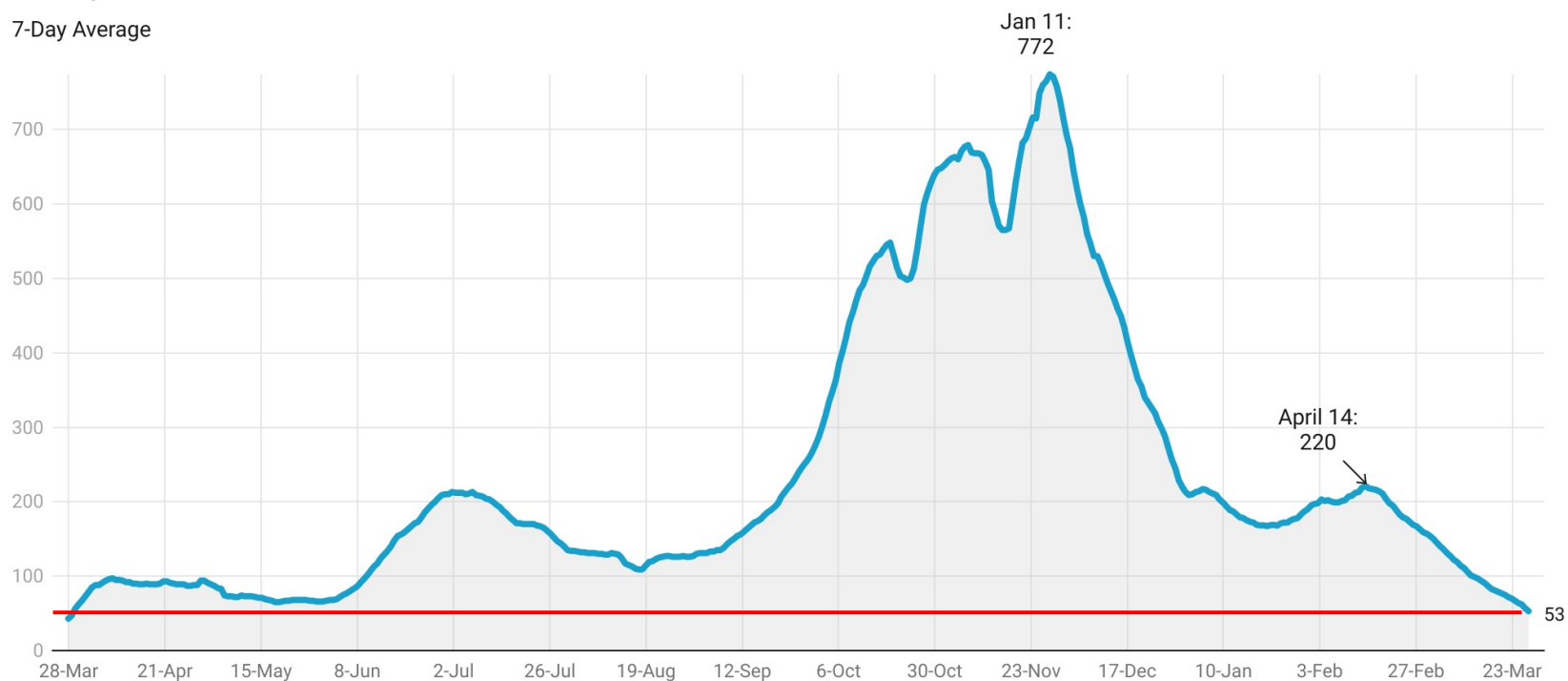


Chart: Health Industry Advisor LLC • Created with Datawrapper

Covid-19 "Vital Signs"

Newly Detected Cases Per Day

In the US, the 7-day new case rate plunged 30% week-over-week and 56% over the past three weeks.

Newly Detected Cases

As of June 1

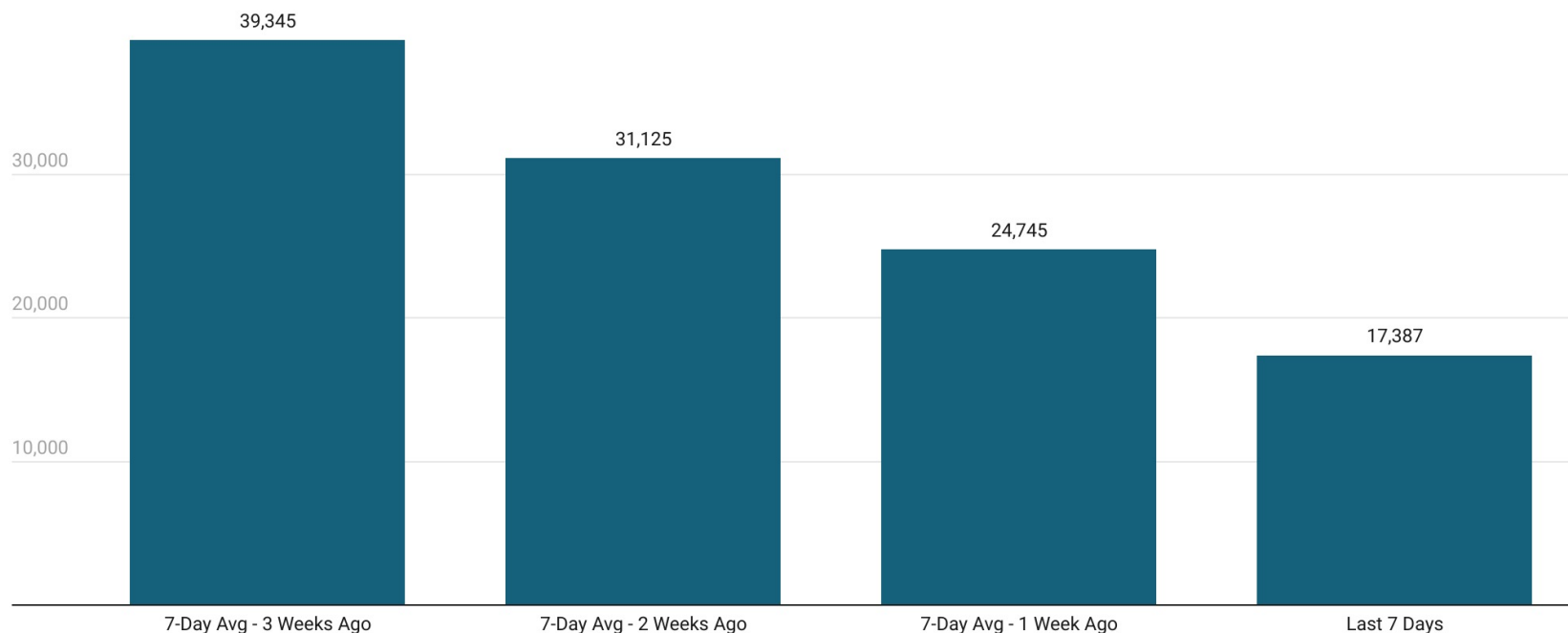


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

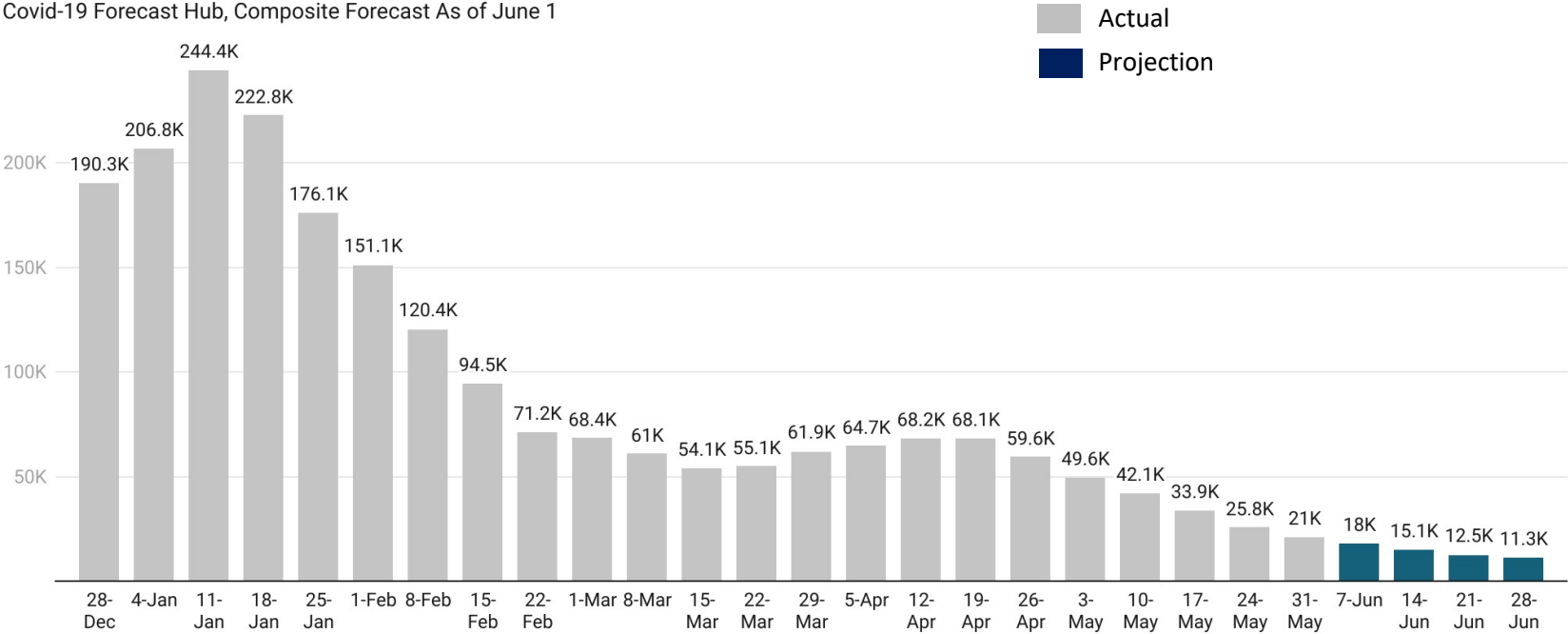


Covid-19 Cases: Ensemble Forecast

The most recent ensemble forecast projects that new daily cases decline 14% per week over the next four weeks.

Newly-Detected Cases Per Day

Covid-19 Forecast Hub, Composite Forecast As of June 1



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>

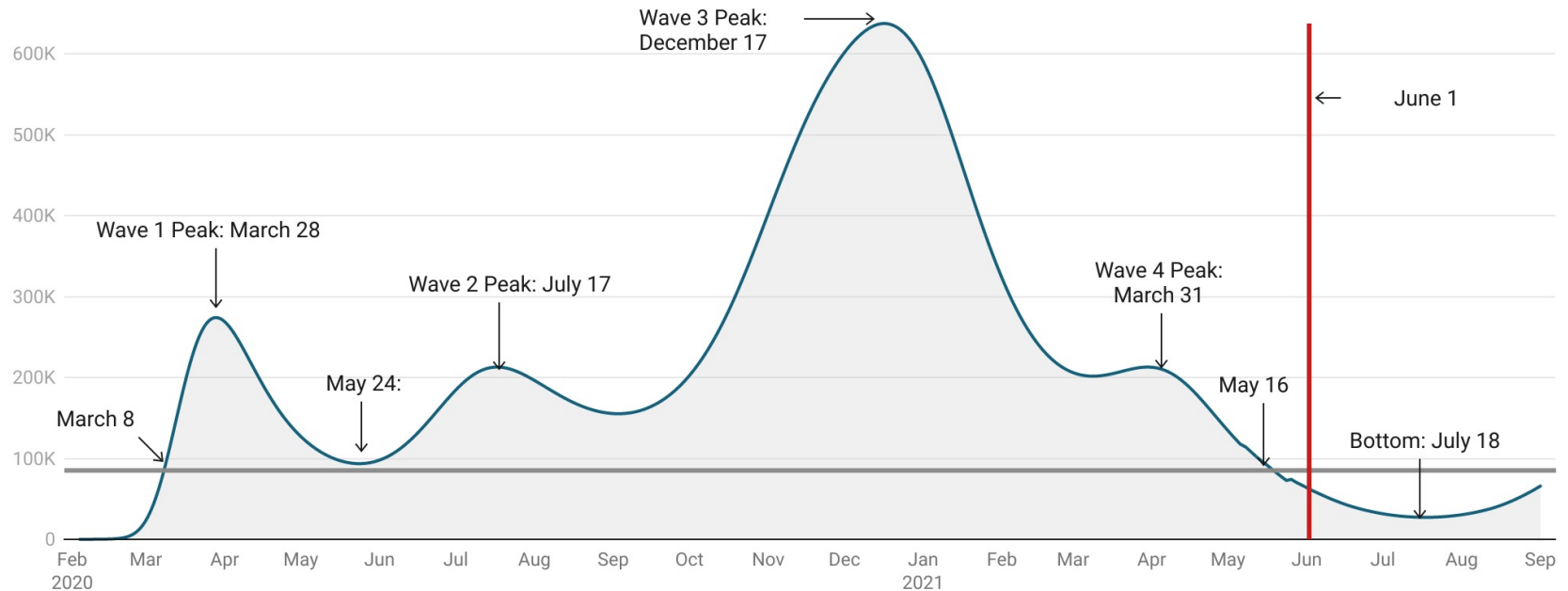
Covid-19 "Vital Signs"

Estimated Infections IHME Projections

Estimated new infections in the U.S. have fallen to the lowest point since March 6, 2020.

Estimated and Projected Infections

Institute For Health Metrics and Evaluation



Forecast Date: May 28th

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

Covid-19 Inpatient Census

Covid-19 inpatient census has declined 12% in the last week and 39% in the last four weeks.

Hospitalized Covid-19 Patients

Compared to Same Day, Prior Weeks

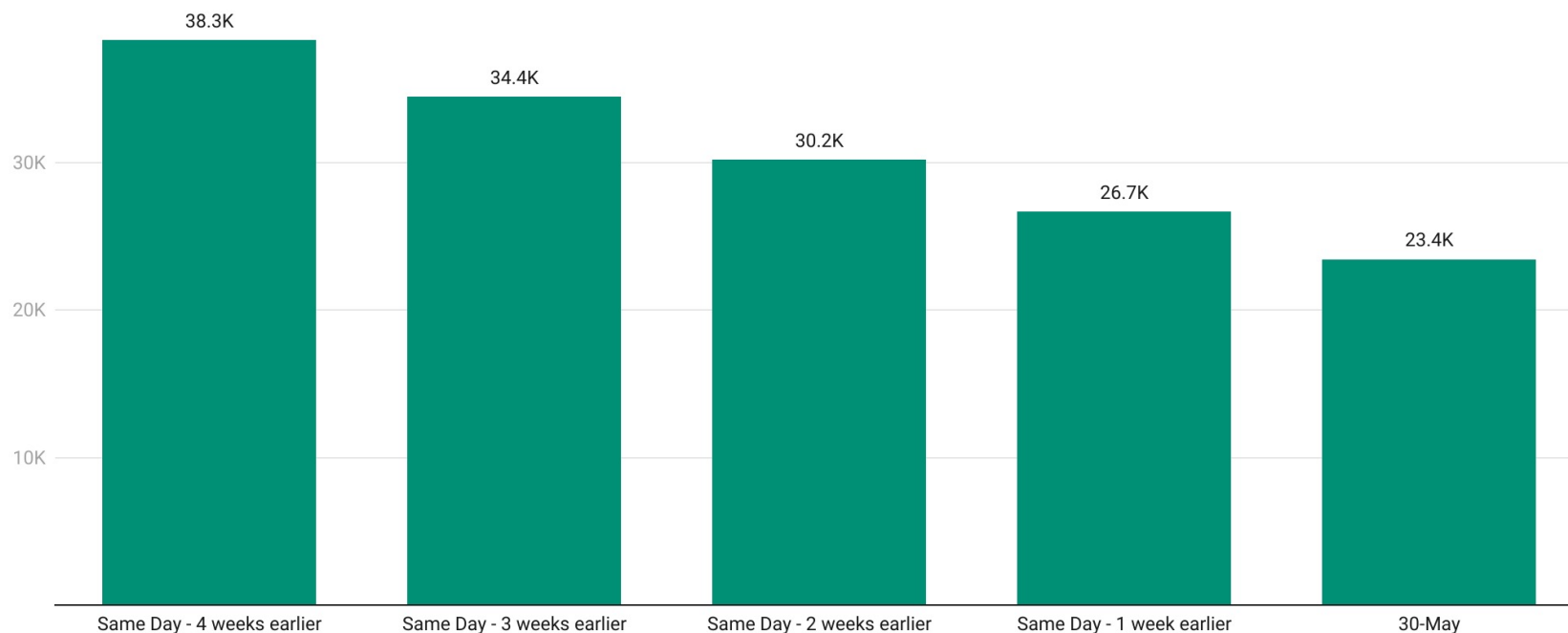


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper

Covid-19 "Vital Signs"

Covid-19 Inpatient Census

Covid-19 inpatient census has dropped to levels unseen since these data were reported back in July 2020.

Covid-19 Inpatient Census

Through May 31

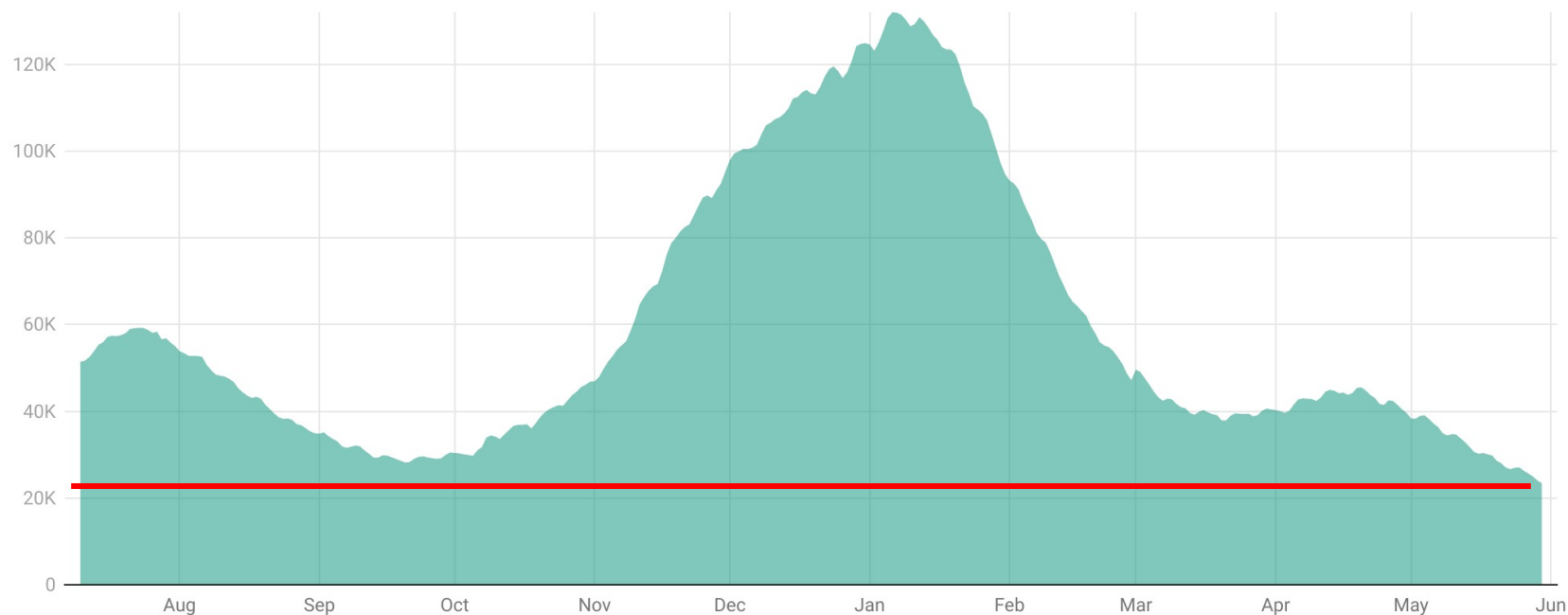


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper

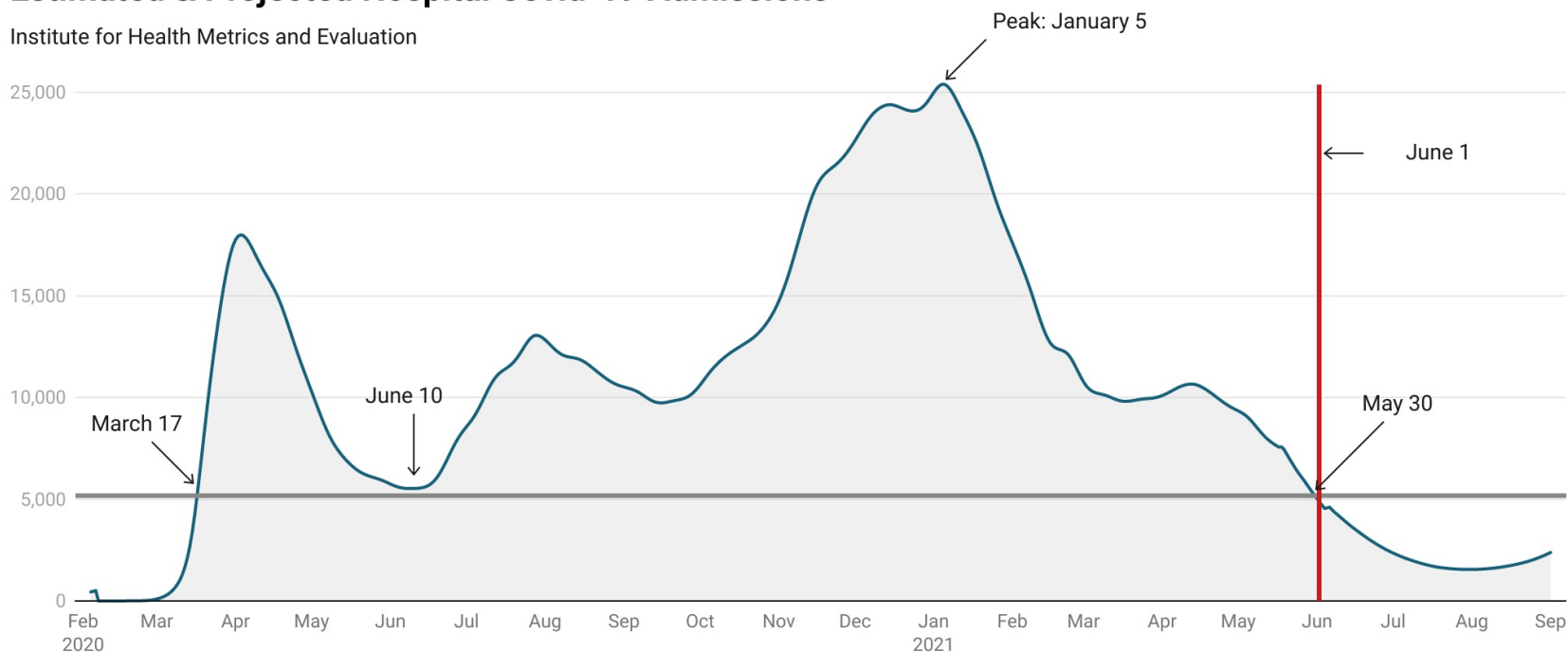
Covid-19 “Vital Signs”

Covid-19 Inpatient Admissions – IHME Projections

Projected Covid-19 admissions began declining weeks ago, according to the latest IHME model. As of yesterday, projected admissions could be lower than at any time since mid-March 2020.

Estimated & Projected Hospital Covid-19 Admissions

Institute for Health Metrics and Evaluation



Forecast Date: May 28th

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

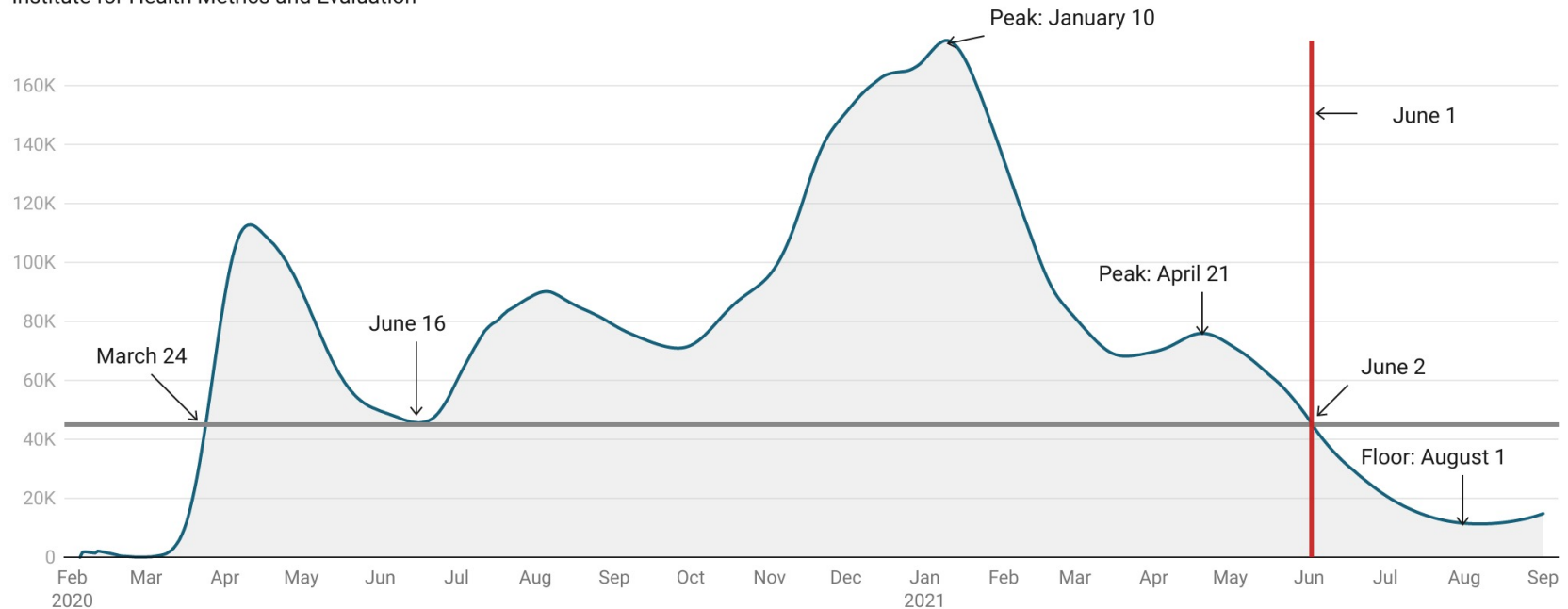
Covid-19 "Vital Signs"

Covid-19 Inpatient Census – IHME Projections

Projected Covid-19 admissions peaked a month ago according to the latest IHME model. By Thursday, projected admissions drop lower than at any time since March 24, 2020.

Estimated & Projected Hospital Covid-19 Inpatient Census

Institute for Health Metrics and Evaluation



Forecast Date: May 28th

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

Deaths Reported With Coronavirus

The 7-day death rate declined 13% week-over-week and 34% in the last three weeks.

Daily Deaths Reported With Coronavirus

As of June 1

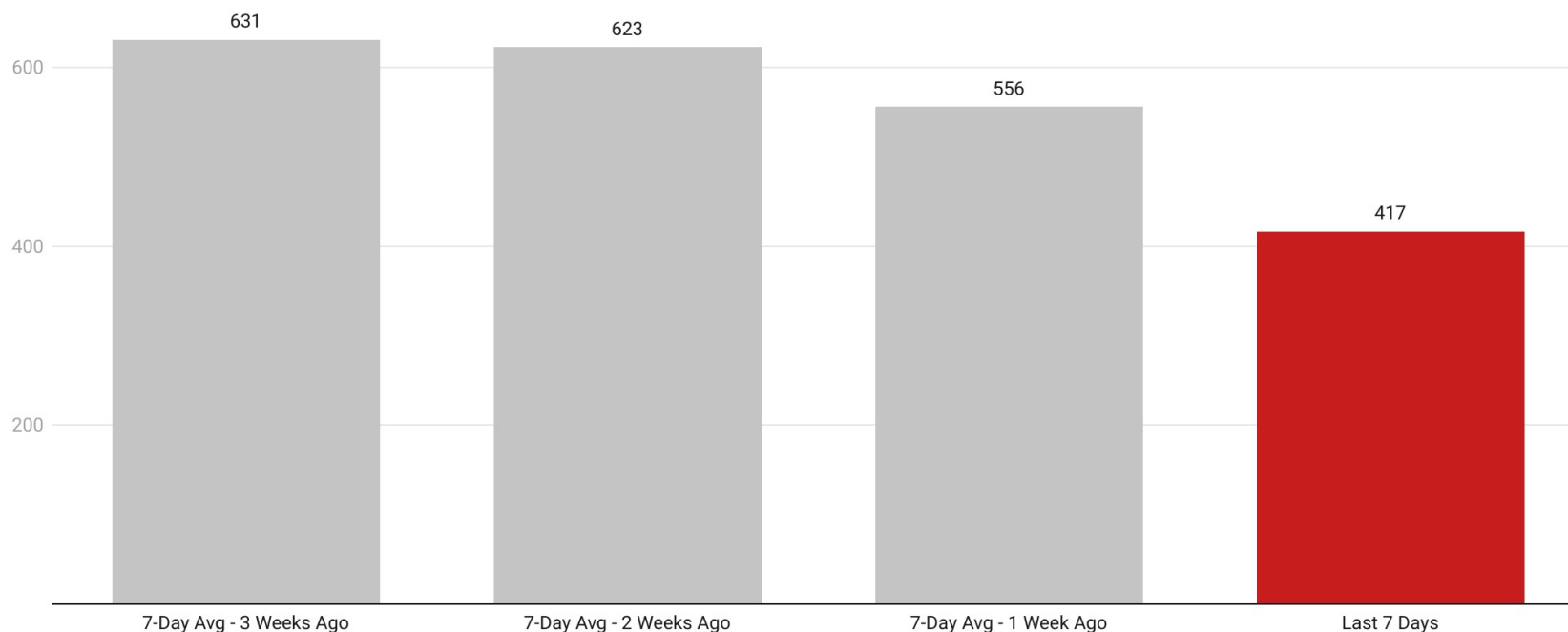


Chart: Health Industry Advisor LLC • Source: worldometer.info • Created with Datawrapper

Covid-19 "Vital Signs"

Deaths With Coronavirus

The U.S. is reporting fewer deaths with coronavirus (7-day average) than any day since March 29, 2020

Deaths With Coronavirus

7-Day Average, Through June 1

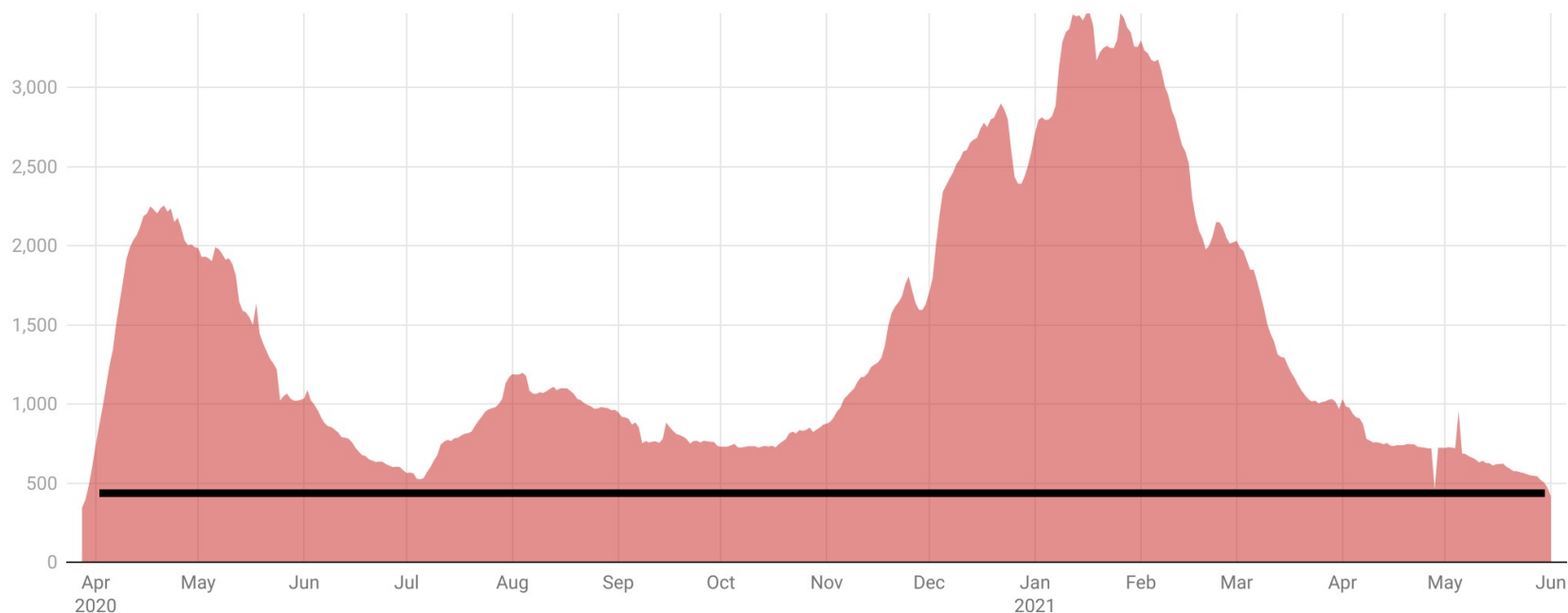


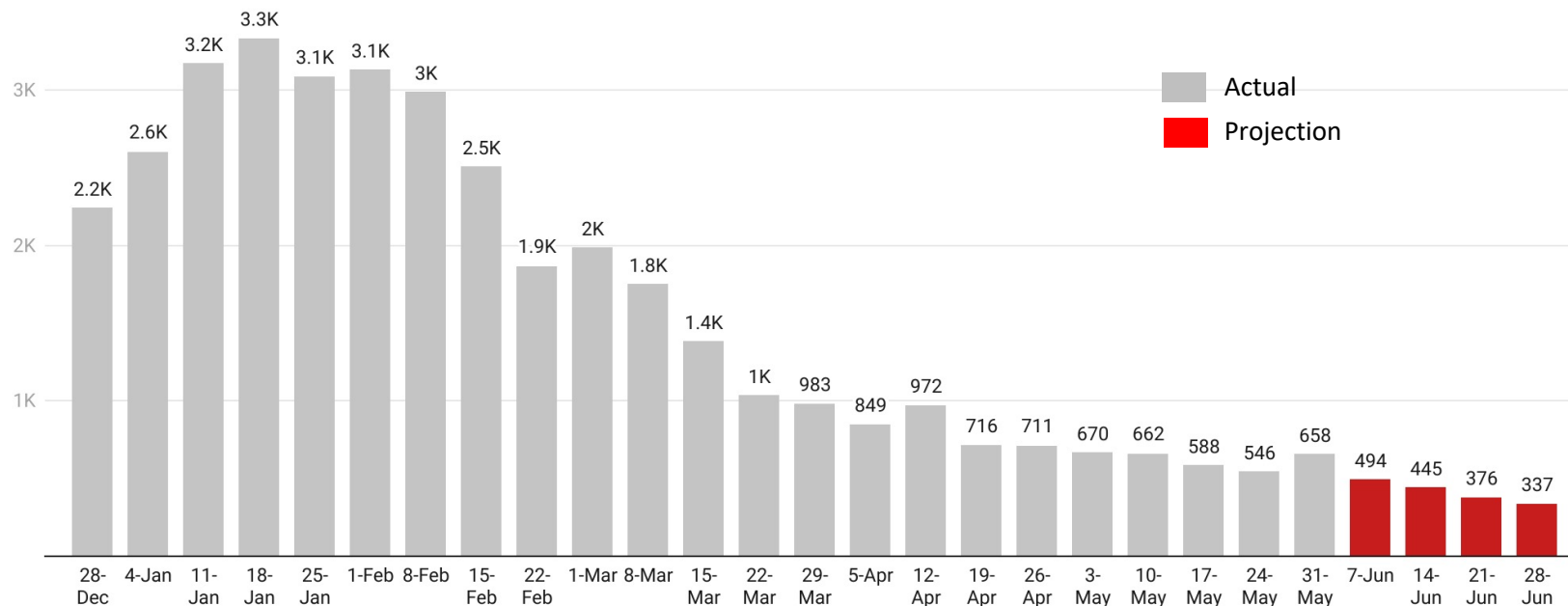
Chart: Health Industry Advisor LLC • Created with Datawrapper

Death Projections – Ensemble Forecast

The most recent ensemble forecast projects that deaths decline 15% per week over the next four weeks.

Newly-Reported Deaths Per Day

Covid-19 Forecast Hub, Composite Forecast As of June 1



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>

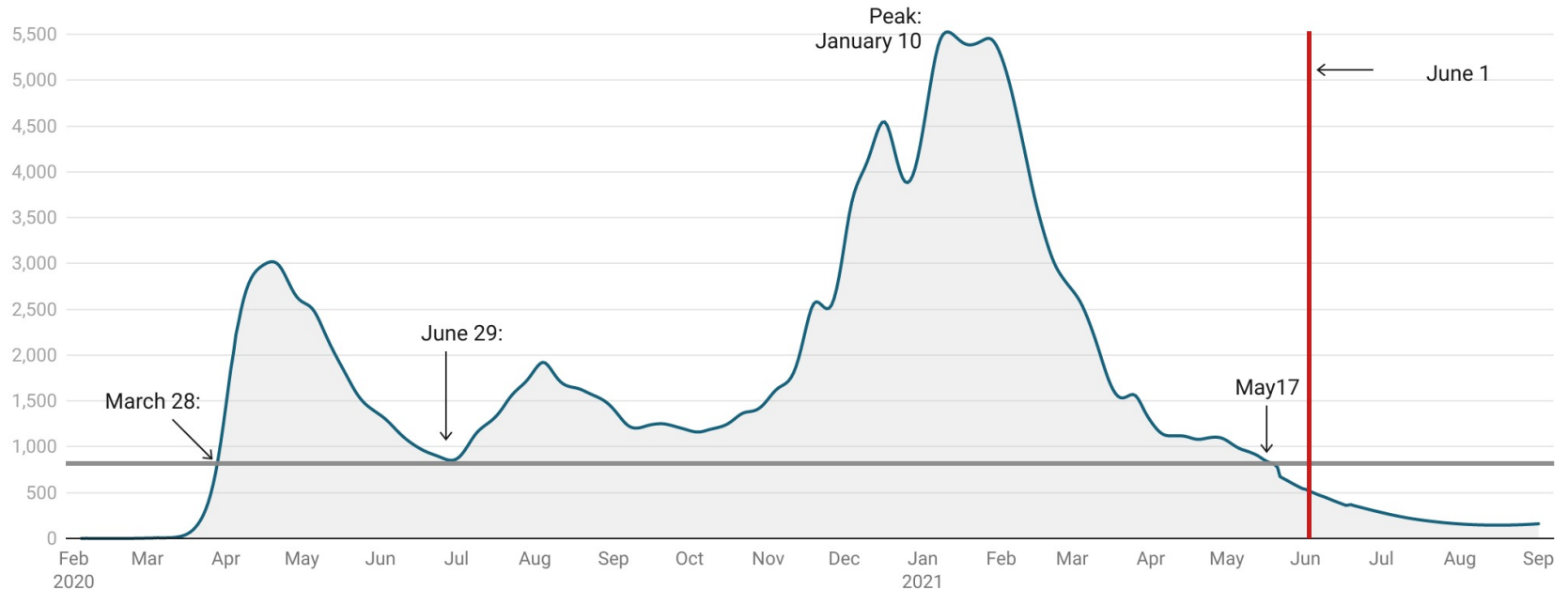
Covid-19 "Vital Signs"

Deaths With Covid-19: IHME Projection

Covid-19 deaths are below levels experienced at any time since March 26, 2020.

Estimated & Projected Deaths With Covid-19

Institute for Health Metrics and Evaluation



Forecast Date: May 28th

Chart: Health Industry Advisor LLC • Source: Institute for Health Metrics and Evaluation • 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>
- Our World In Data, <https://ourworldindata.org/covid-vaccinations>
- 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>