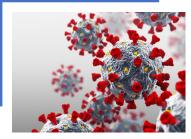


"Strategic Advice in an Era of Unprecedented Change"









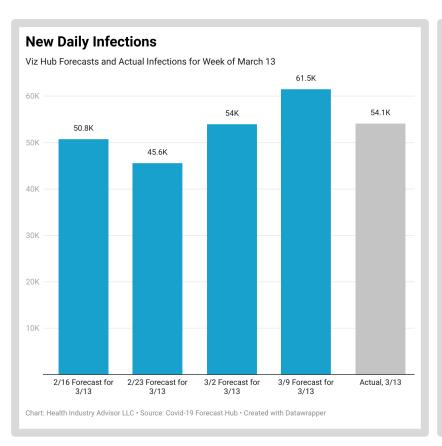
Covid-19 "Vital Signs"

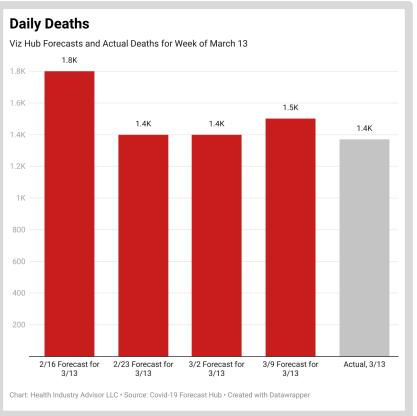
Issue # 302 March 17, 2021



Ensemble Forecasts

Last week's new cases and deaths were lower than the most recent forecast but, in line with the March 2 ensemble forecast.

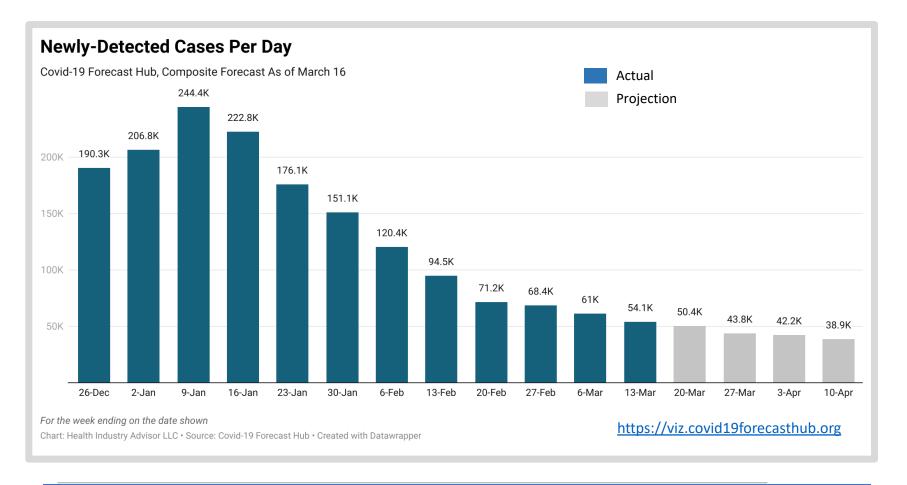




https://viz.covid19forecasthub.org

Covid-19 Cases: Ensemble Forecast

The most recent ensemble forecast projects that new daily cases will decline an average of 8% per week for this and the next three weeks. By April 10th, projected new daily cases reach a twenty-nine-week low.

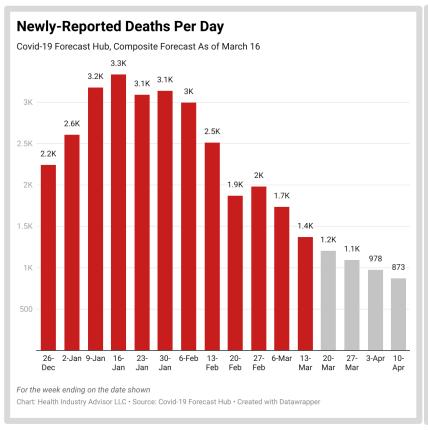


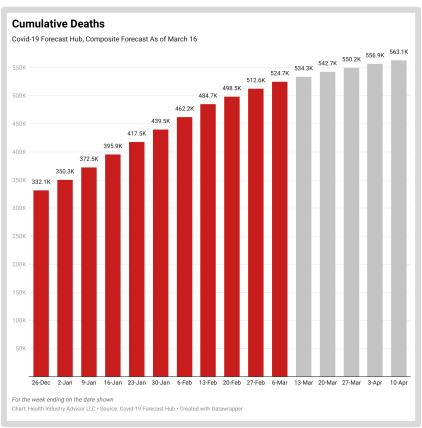




Death Projections – Ensemble Forecast

The most recent ensemble forecast projects that new daily cases will drop by an average of nearly 11% per week this and the next three weeks. By April 10^{th} , projected daily deaths reach a twenty-two-week low.



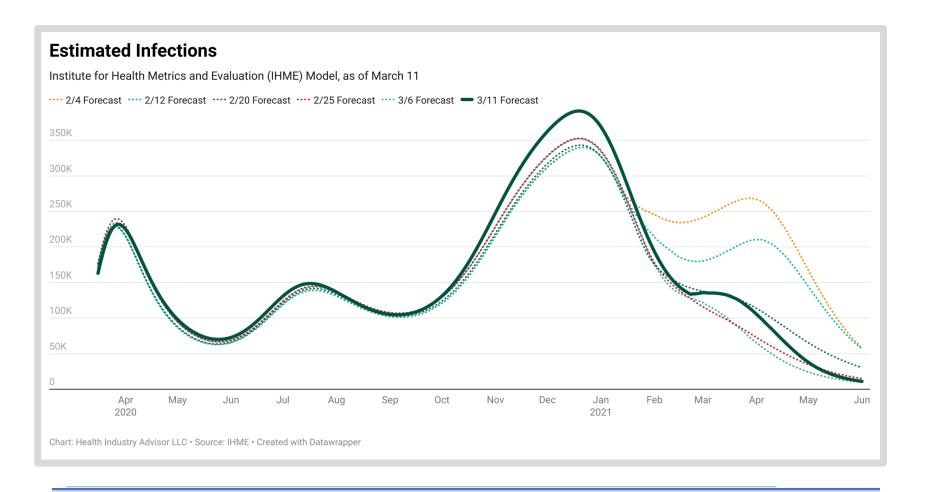


https://viz.covid19forecasthub.org



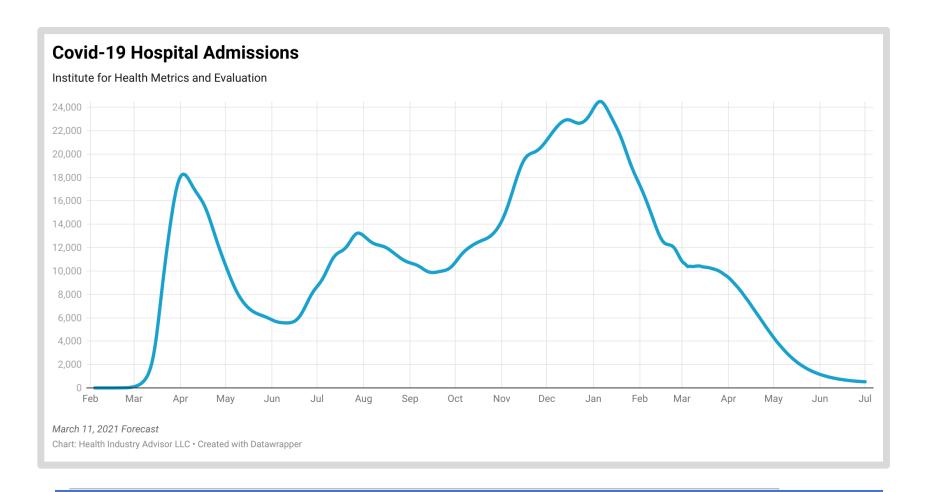
Estimated Infections IHME Projection

IHME's latest infection estimates for November to January are higher than in the previous forecast. Projected new daily infections begin falling again this week, at a 2.6% clip daily through May 1. By mid-April, estimated daily infections will be lower than at any time since early March 2020.



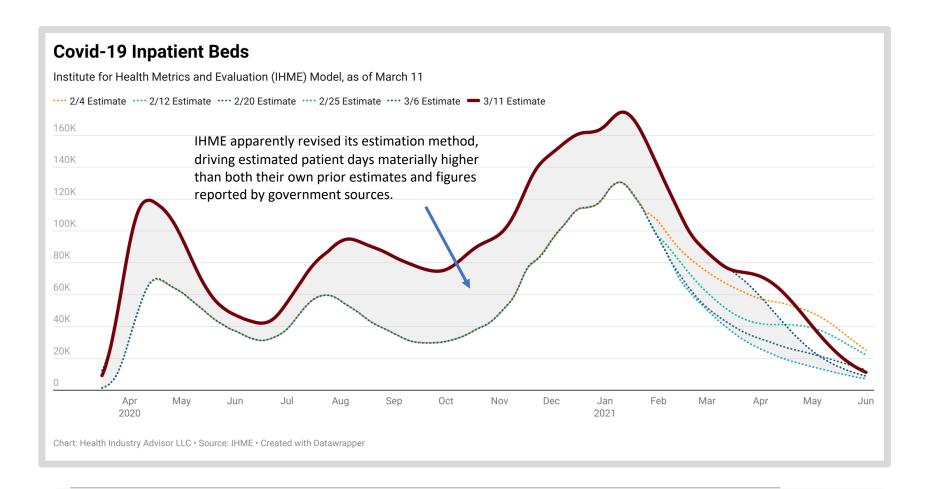
Covid-19 Hospital Admissions – IHME Projections

IMHE estimates Covid-19 hospital admissions will drop an average of 2.5% per day between today and May 18. By April 25^{th} , projected admissions will be lower than at any time since mid-March 2020.



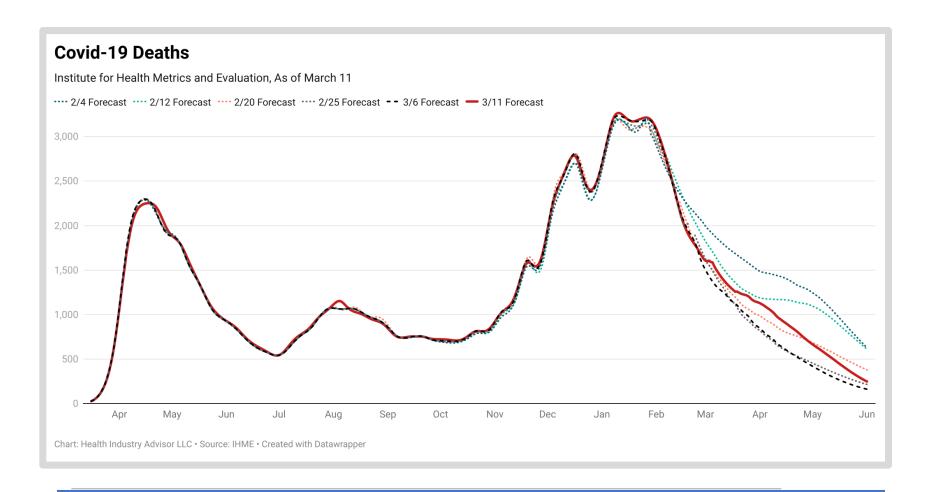
Covid-19 Inpatients – IHME Projections

IMHE estimates Covid-19 days will drop slightly through the end of March before declining an average of 2.9% daily through the end of May. By April 29, estimated inpatient census will be lower than at any time since March 23, 2020.



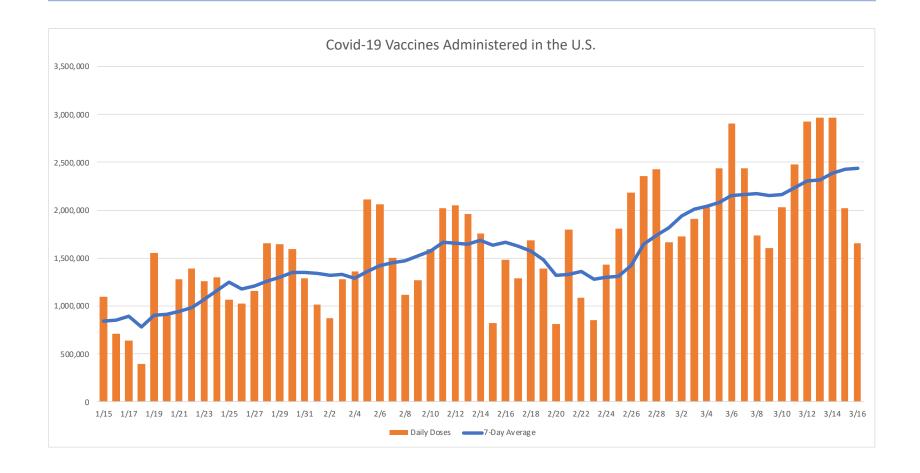
Deaths With Covid-19: IHME Projection

Daily deaths with Covid-19 are projected to drop by an average of 2.1% per day between today and June 1. By May 10^{th} , projected daily deaths will be lower than at any time since the end of March 2020.



Pace of Vaccinations

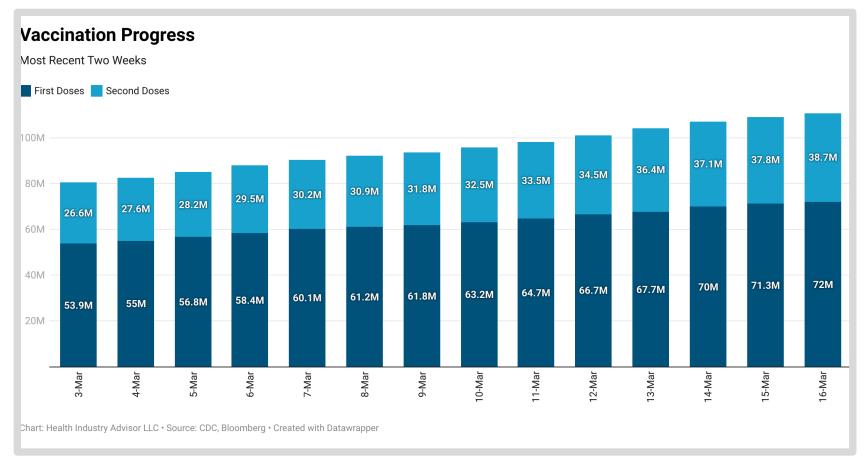
An average of 2.44 million people were vaccinated over the past week, an increase of more than 13% from one week earlier and 25% from two weeks earlier.





Vaccine Tracking

To date, the US has administered 110.7 million doses, with 38.7 million people jabbed twice. As of yesterday, 28.2% of U.S. adults have received at least one dose; 15.2% have received two.

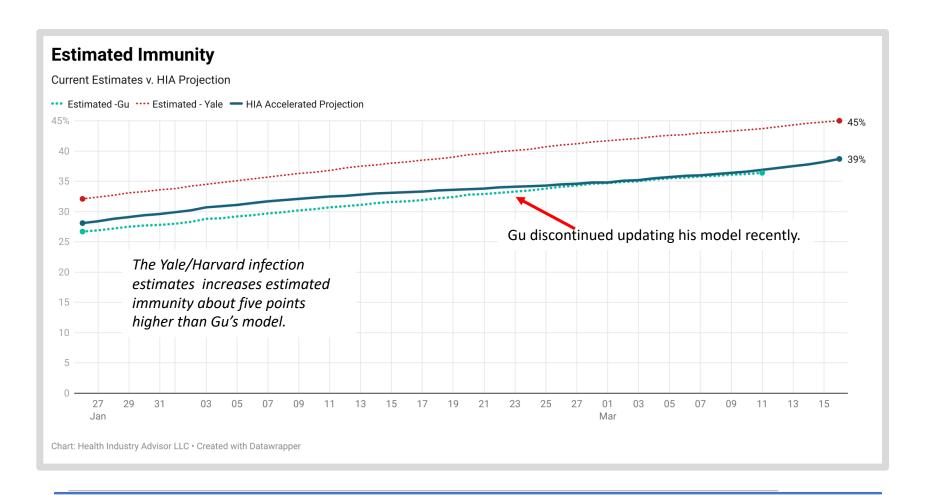


Vaccine data from: Centers for Disease Control and Prevention and Bloomberg Vaccine Tracker



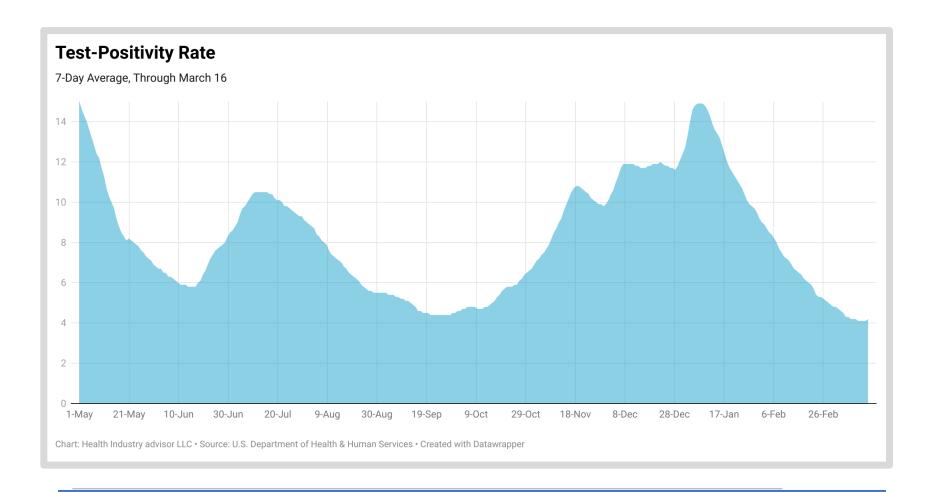
Immunity: Projected v. Estimated

Estimated immunity is 39% to 45%, based on vaccination and estimated infection rates, vaccine efficacy and a presumed two-week lag from infection or vaccination to immunity.



Test-Positivity Rate

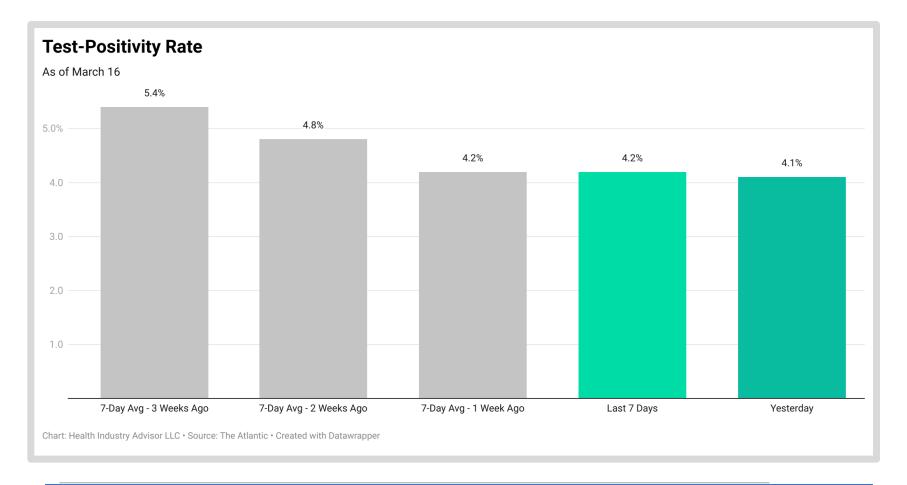
The 7-day test-positivity rate reached its lowest point since the pandemic began.





Test-Positivity Rate

The test-positivity rate has dropped by more than 20% in the past three weeks. Yesterday's rate was the lowest it has been on any single day during the pandemic.

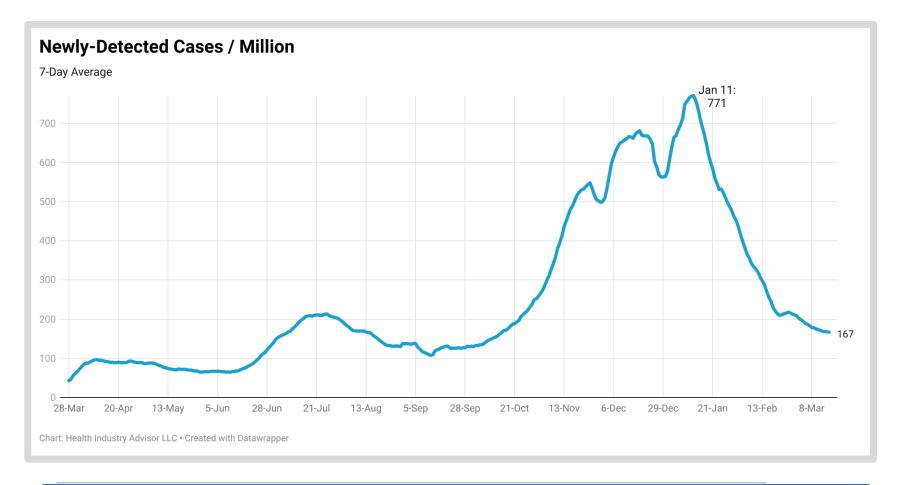






Newly Detected Cases / Million - US

Newly detected cases (7-day average) continue dropping from a January 11^{th} peak, plunging nearly 80% during this time. Yesterday's rate set a five-month low.

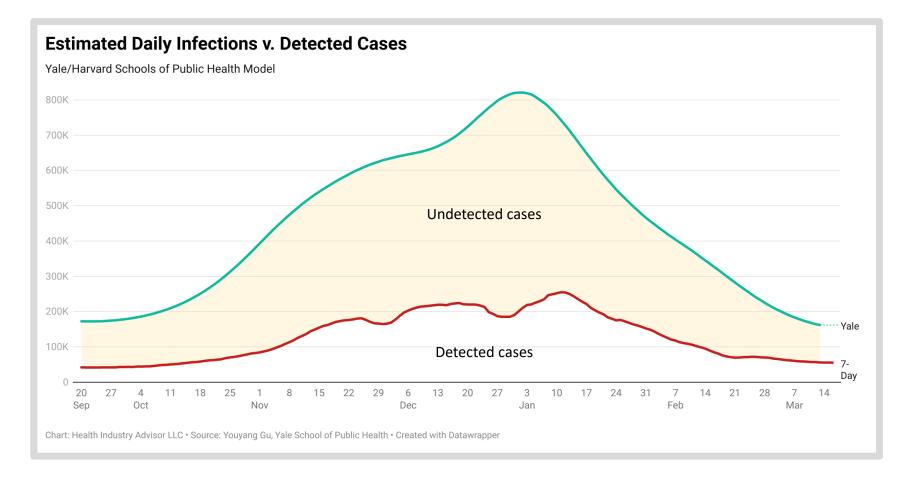




Estimated Daily Infections & New Case Rates

Covid-19 "Vital Signs"

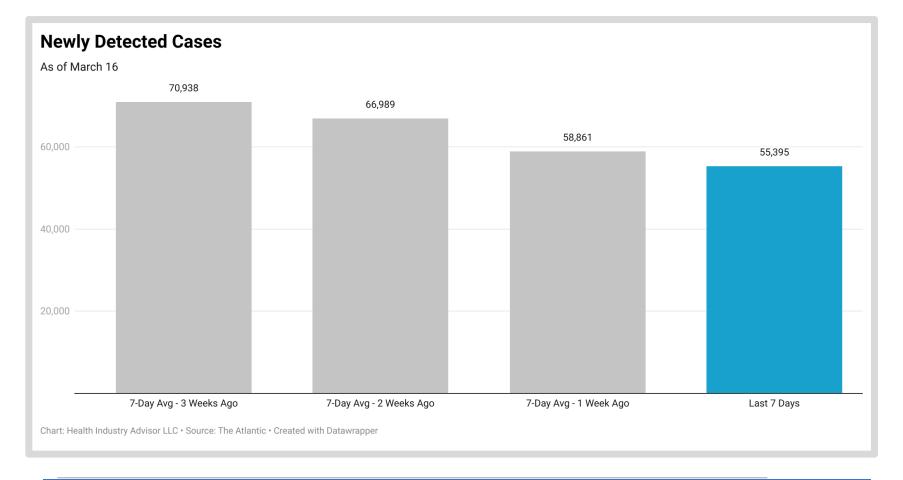
Estimated new infections and reported cases continue falling in the US. The Yale/Harvard model suggests that infections have plummeted 80% since the beginning of the year.





Newly Detected Cases Per Day

In the US, 7-day new case rates dropped 6% week-over-week and 22% in the last two weeks.

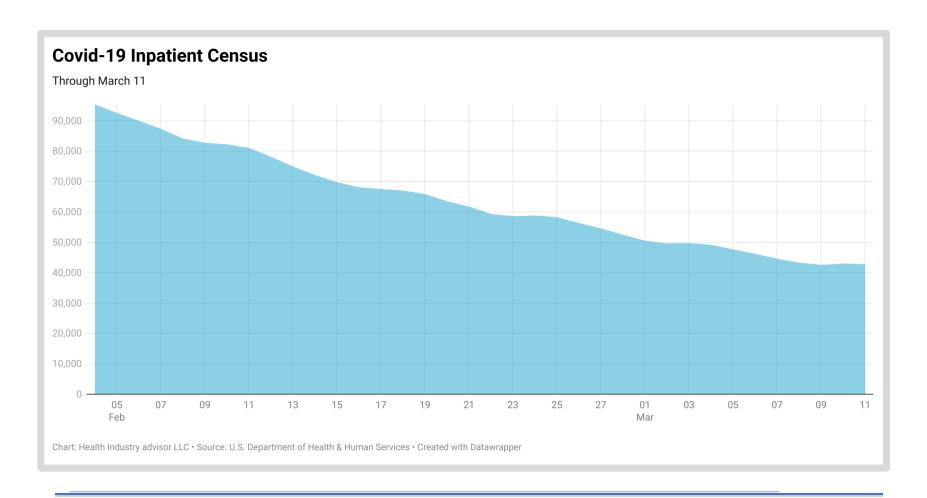






Covid-19 Inpatient Census

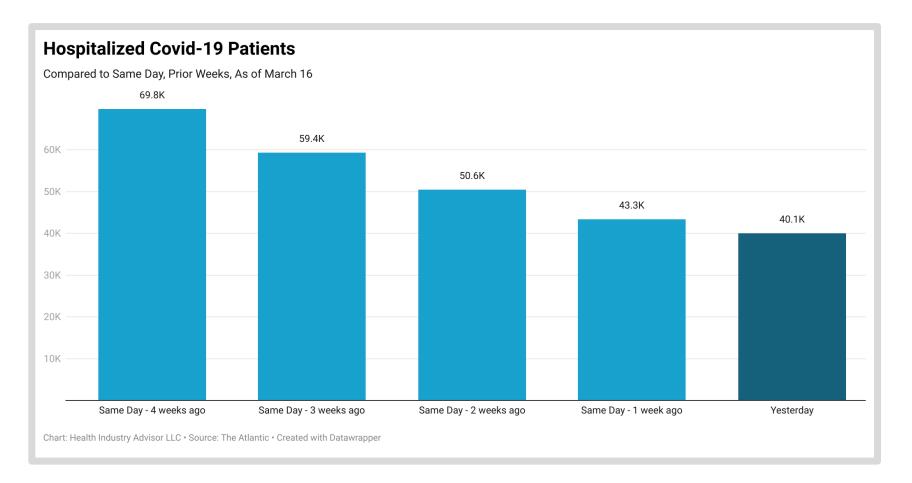
Covid-19 inpatient census has declined steadily since early February, when the Department of Health & Human Services began tabulating these data (a 58% decline in five weeks).





Covid-19 Inpatient Census

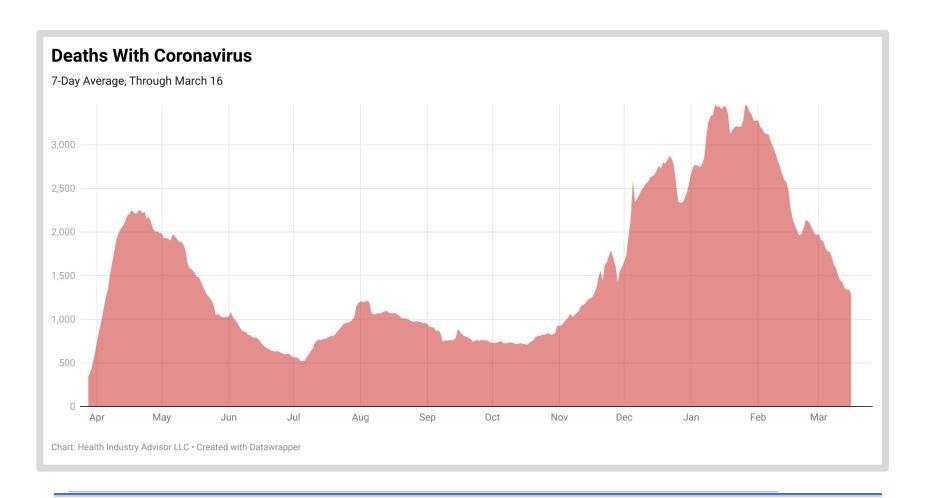
Covid-19 inpatient census fell 7% from last week and more than 40% in the past four weeks.





Deaths With Coronavirus

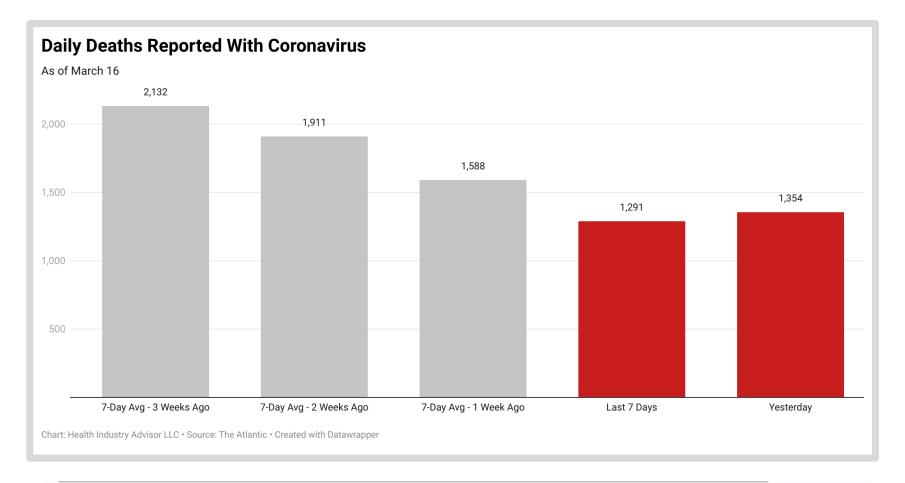
Deaths with coronavirus (7-day average) have declined by 63% since a peak in late January. This rate is lower than at any time in the last four months.





Deaths Reported With Coronavirus

The 7-day average death rate fell 19% from last week and 40% in three weeks.







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

