



"Strategic Advice in an Era of Unprecedented Change"

COVID19 VITAL SIGNS

ISSUE #374

MONDAY, MARCH 21, 2022

Highlights – As of March 18

U.S. View

- ▶ Substantially all the country resides in a location deemed at Low or Medium in the CDC's Community Level model
 - ▶ As of last Thursday, 99% of the population lived in a community designated Low or Medium, with a substantial majority in the Low category
 - ▶ A week earlier, this figure stood at 98%; two weeks ago, 90%; and three weeks ago, 70%
- ▶ Several key metrics retreated to levels seen last eight months ago
 - ▶ Hospital admissions and census fell 25% last week and 75% in the last month. Covid patients occupy fewer than 1 of every 16 beds, compared to nearly 1 of 2 in January
 - ▶ New cases dropped 21% last week and 74% in the past month
 - ▶ Deaths declined 24% last week and 60% in the last month

Global View

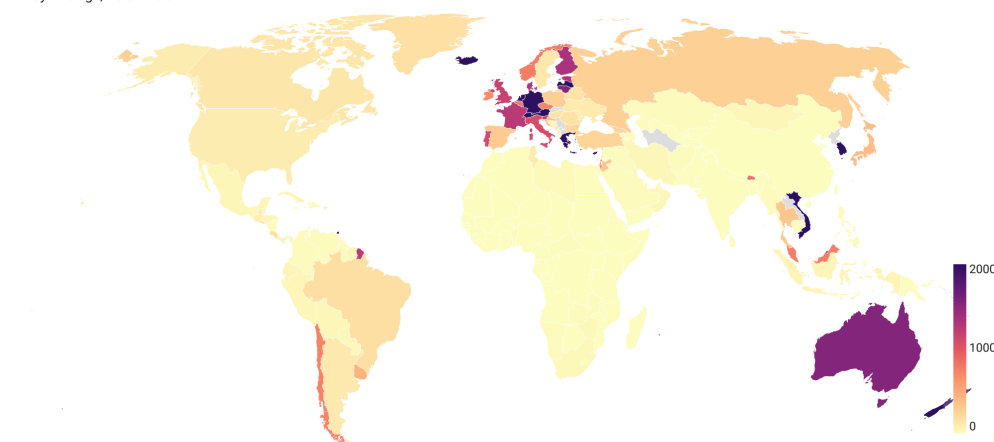
- ▶ Europe and Asia-Pacific represent the epicenter of the BA.2 variant spread
 - ▶ New infections raged in South Korea, Austria, Brunei, New Zealand, Hong Kong, and the Netherlands, among other countries
 - ▶ China suffered the most significant week-over-week increase, with five times more cases last week than the prior week
- ▶ Hong Kong suffered with the most Covid deaths per capita again last week
 - ▶ Hong Kong's rate outpaced second-highest Monaco's by a factor of 3x and the United States' by 14x
 - ▶ Some experts cite Hong Kong's low rates of prior infection and of vaccinations of their elderly population as contributing to the high death rate

Europe and Asia-Pacific find themselves at the epicenter of the BA.2 variant spread

Global View

New Daily Cases / Million

7-Day Average, As of March 17

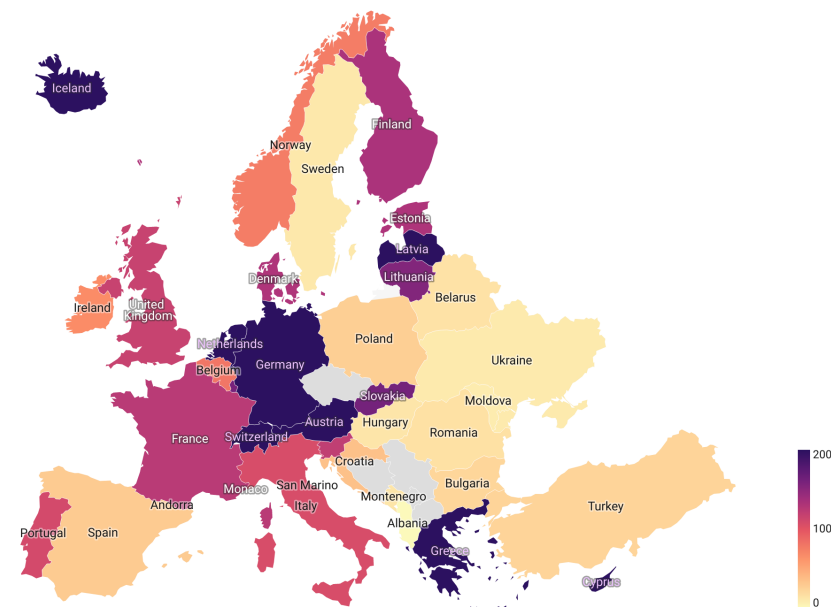


Map: Health Industry Advisor LLC • Source: worldometer.info • Created with Datawrapper

European View

New Daily Cases / Million

7-Day Average, As of March 18



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

Twenty countries recorded more than 1,800 new cases per day per million people last week.

Twenty countries posted case increases of at least 30% in the past week.

New Covid Cases per Day per Million Population

7-Day Average, As of March 17

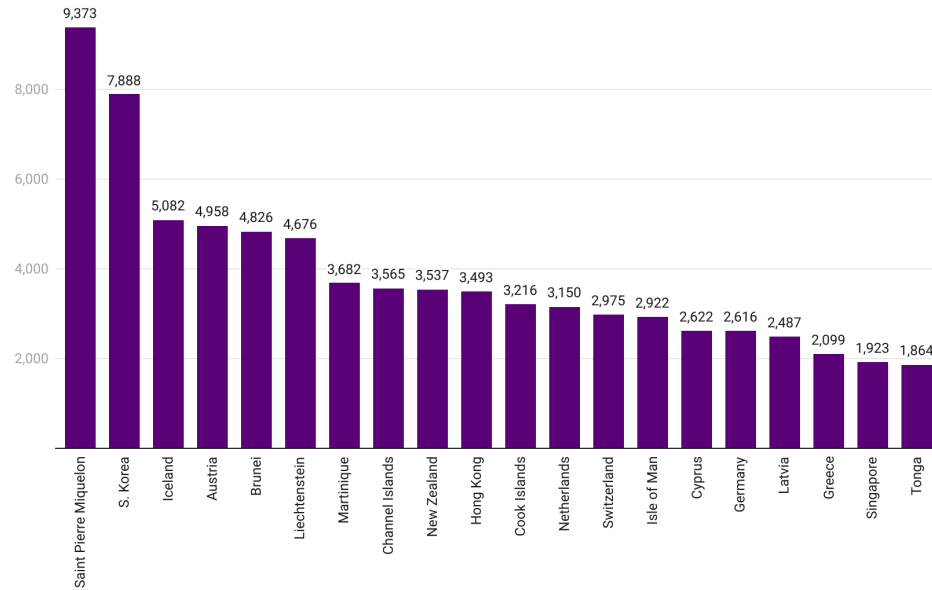
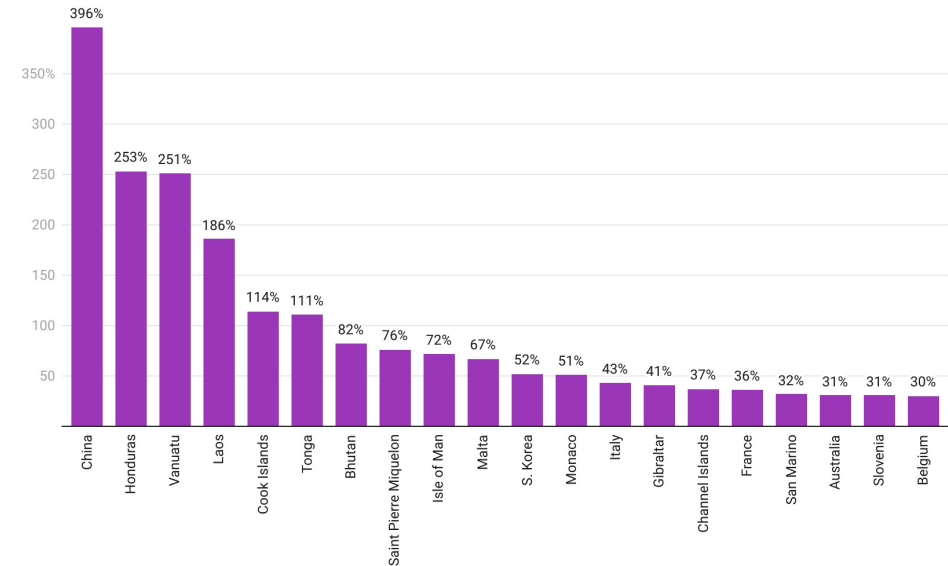


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Week-over-Week Increase in Covid Cases

As of March 18



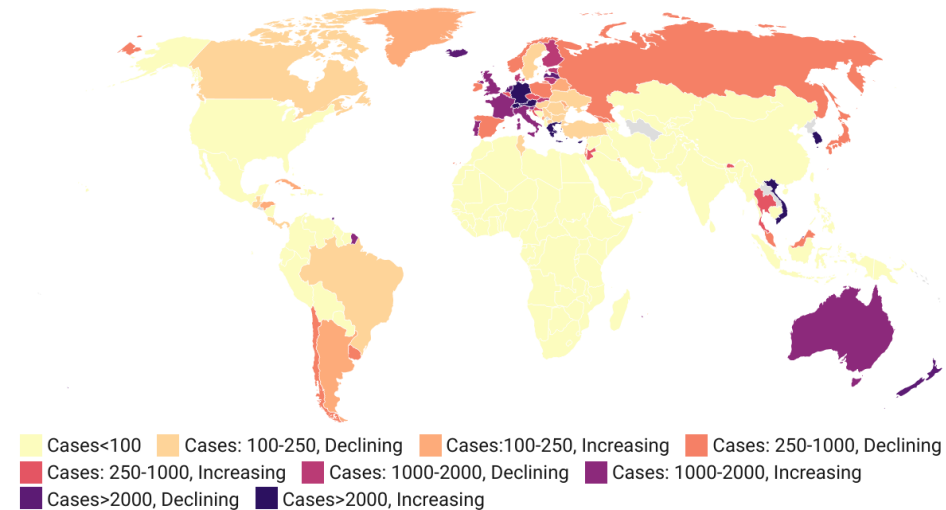
Countries with a minimum of 100 daily cases prior week

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

Considering both the number of cases and the weekly increase in cases . . .

Virus Spread

Daily Cases per Million ("Cases") & Weekly Change in Cases



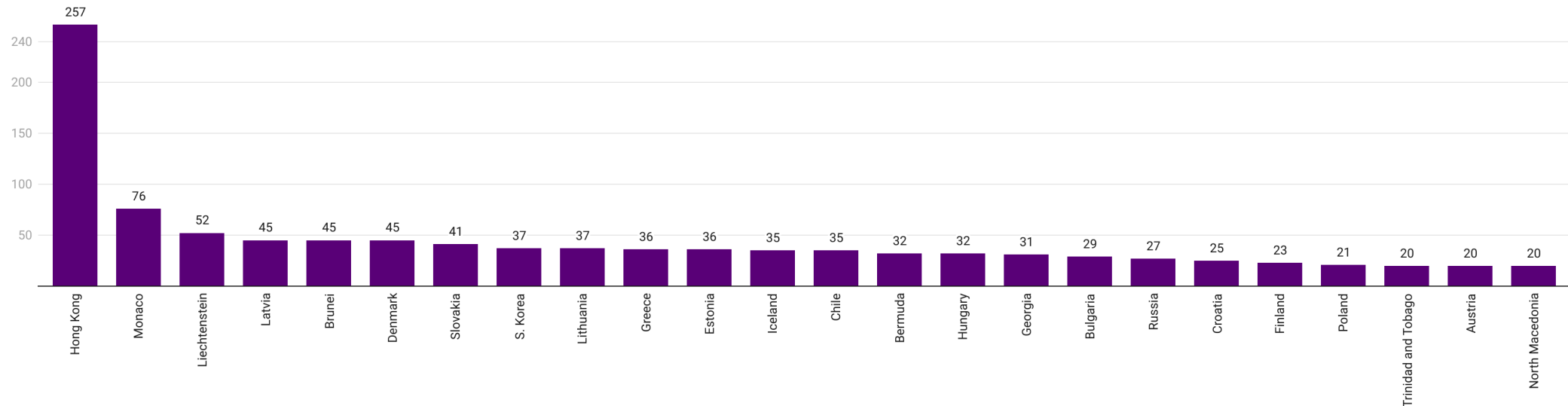
7-Day Average, As of March 17

Map: Health Industry Advisor LLC • Source: Worldometers.info • Created with Datawrapper

Hong Kong suffered substantially more deaths per capita from Covid last week than any other country

Covid Deaths per Day per Million Population

7-Day Average, As of March 17

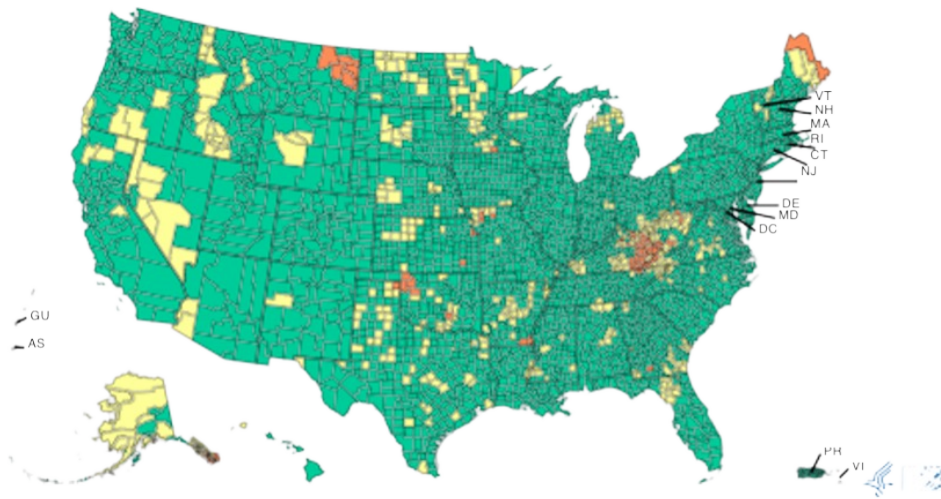


Countries with a minimum of 100 deaths prior week

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

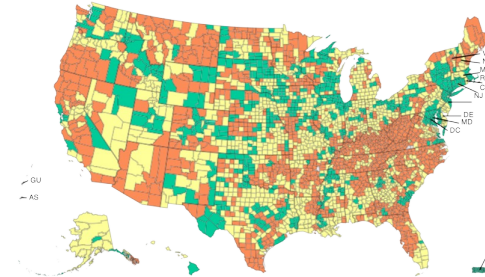
More than 99% of the U.S. population lives in a Low or Medium Community Level, up from 98% last week, 90% two weeks ago, and 70% three weeks ago

March 17

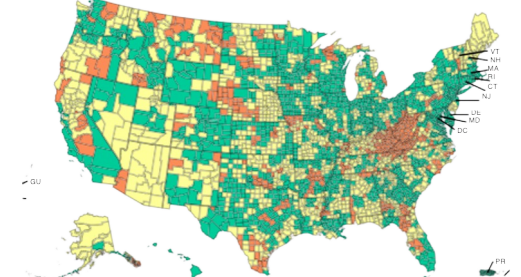


Source: CDC, As of February 24, 2022, March 4, 2022, March 10, 2022, and March 17, 2022, <https://www.cdc.gov/coronavirus/2019-ncov/your-health/covid-by-county.html>

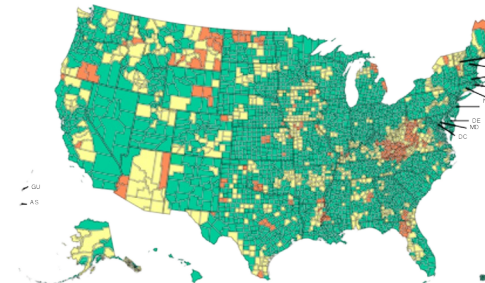
February 24



March 4



March 10



High
Medium
Low

CDC Community Level Scoring Table

COVID-19 Community Levels

COVID-19 Community Levels – Use the Highest Level that Applies to Your Community				
New COVID-19 Cases				
Per 100,000 people in the past 7 days	Indicators	Low	Medium	High
Fewer than 200	New COVID-19 admissions per 100,000 population (7-day total)	<10.0	10.0-19.9	≥20.0
	Percent of staffed inpatient beds occupied by COVID-19 patients (7-day average)	<10.0%	10.0-14.9%	≥15.0%
200 or more	New COVID-19 admissions per 100,000 population (7-day total)	NA	<10.0	≥10.0
	Percent of staffed inpatient beds occupied by COVID-19 patients (7-day average)	NA	<10.0%	≥10.0%

The COVID-19 community level is determined by the higher of the new admissions and inpatient beds metrics, based on the current level of new cases per 100,000 population in the past 7 days

Source: Centers for Disease Control and Prevention,
<https://www.cdc.gov/coronavirus/2019-ncov/science/community-levels.html>

Nationwide, Covid admissions and patient days fell by 25% in the past week and by 75% in the last month

Covid-19 Admissions & Census

7-Day Average Thru March 17

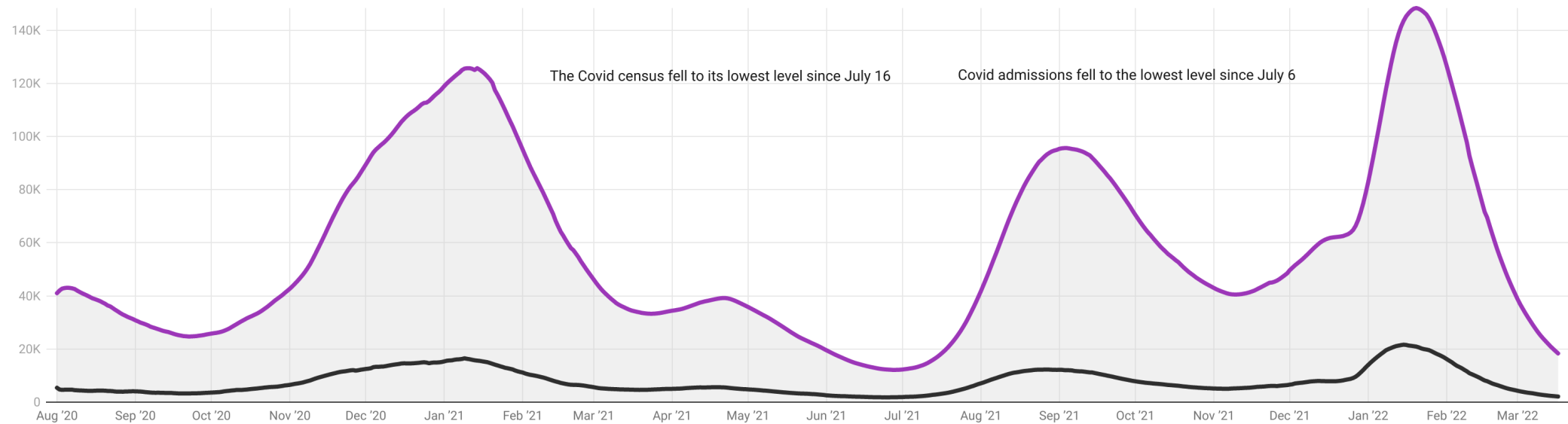


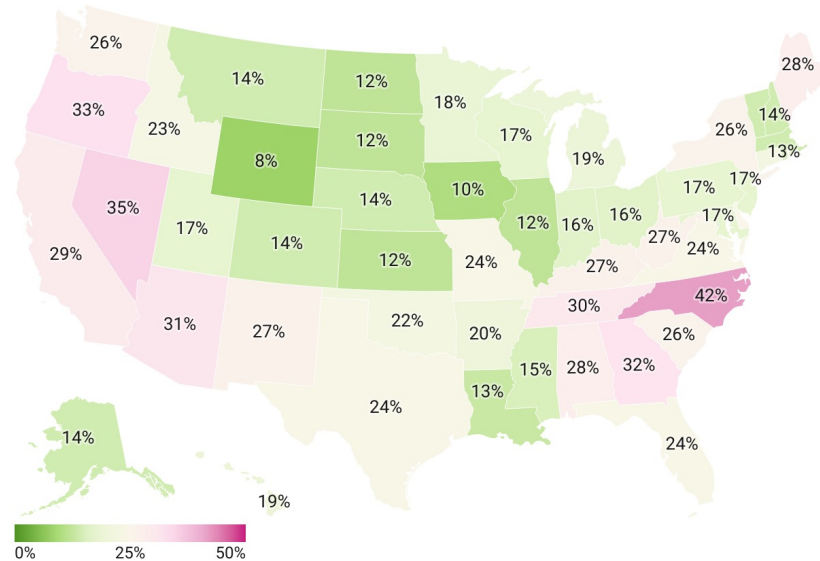
Chart: Health Industry Advisor LLC • Source: Centers for Disease Control and Prevention • Created with Datawrapper

Hospital Covid census eased during the past month. Only three states used at least one of every of its beds for Covid patients – Maine, North Carolina, and Oregon

As of February 17

Covid-19 Patients As % of All Inpatient Beds

As of February 17

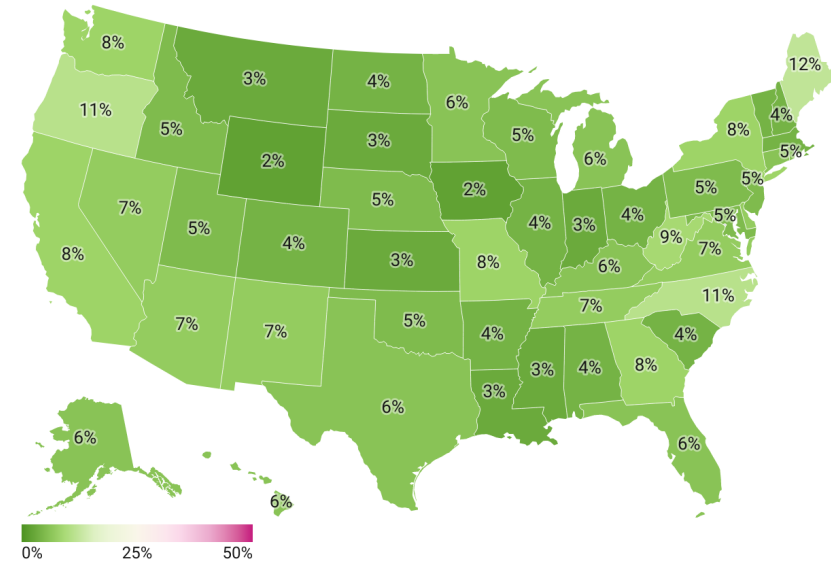


Map: Health Industry Advisor LLC • Source: Centers for Disease Control and Prevention • Created with Datawrapper

As of March 17

Covid-19 Patients As % of All Inpatient Beds

As of March 17



Map: Health Industry Advisor LLC • Source: Centers for Disease Control and Prevention • Created with Datawrapper

The test-positive rate fell to 2.5% last week - as low as it has been since July 1

Test-Positivity Rate

7-Day Average, Through March 10

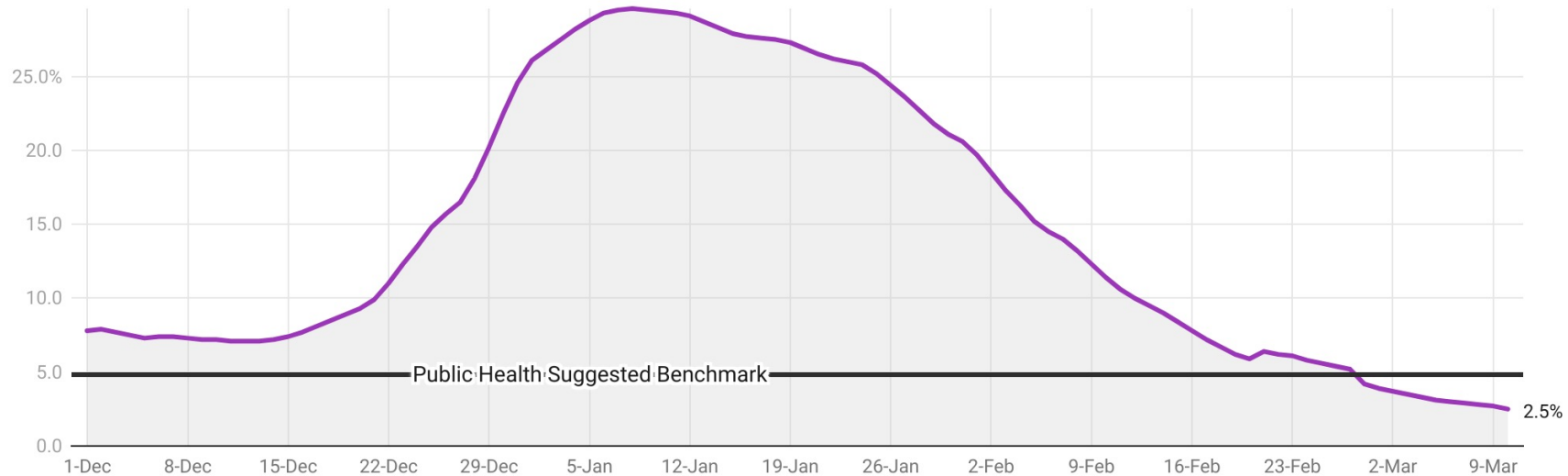


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper

Cases tumbled 21% in the past week and 74% in a month. The ensemble forecast predicts infections will retreat another 40% in the next two weeks. However, predicted cases tick upward in about three weeks

New Daily Cases per Million

7-Day Average, Through March 18

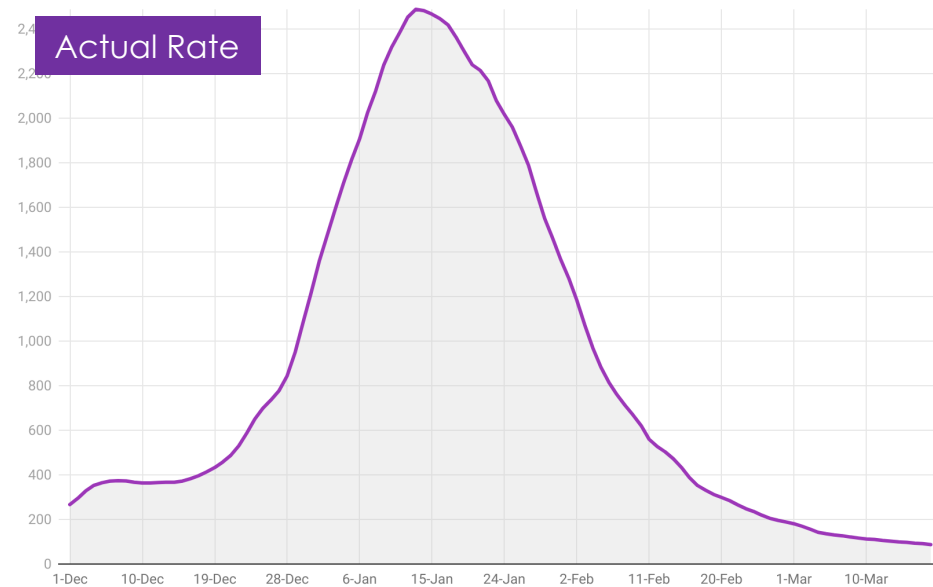
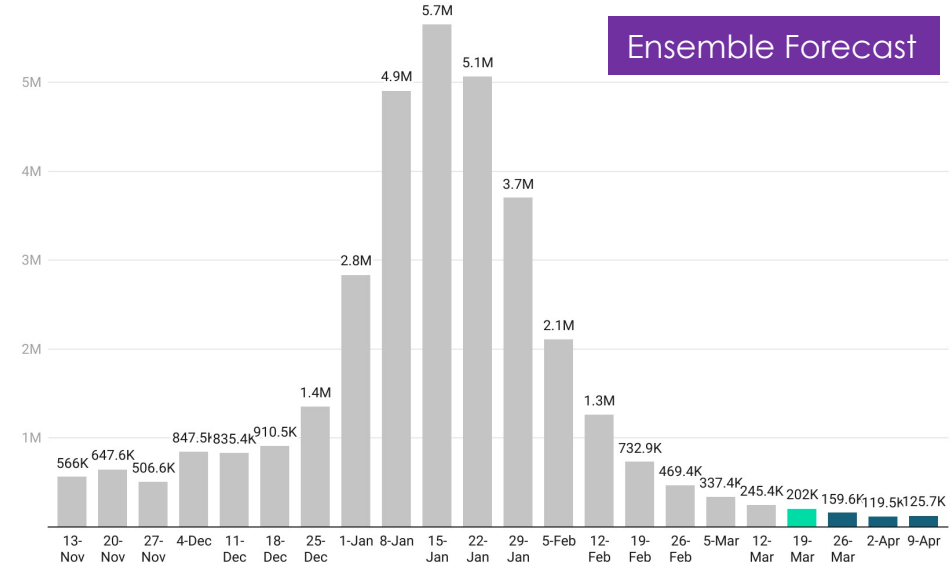


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Newly-Reported Cases Per Week

Covid-19 Forecast Hub, Composite Forecast As of March 12



For the week ending on the date shown

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

Source: Covid-19 Forecast Hub

Although cases continued to decline week-over-week, the slowdown has eased over the past month

Week-Over-Week Change in Newly Reported Cases

7-Day Average

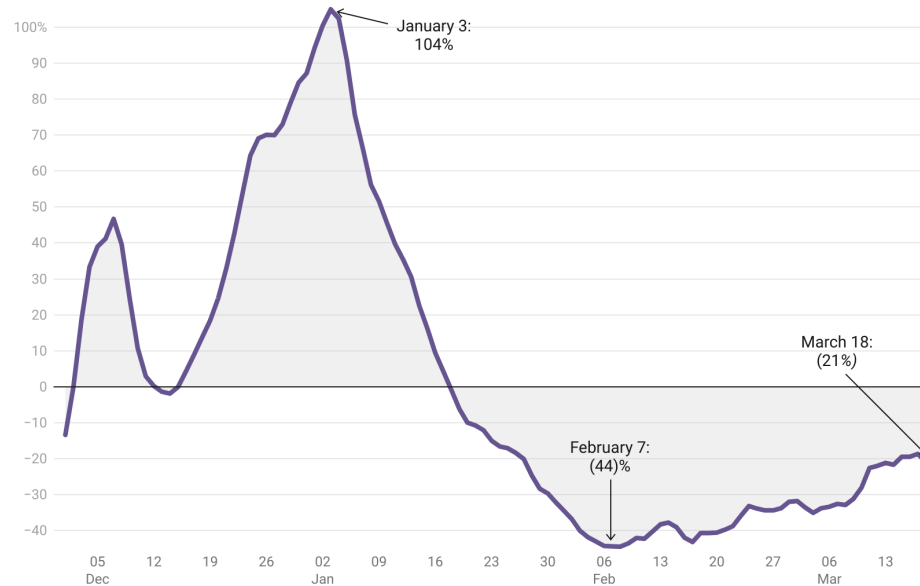


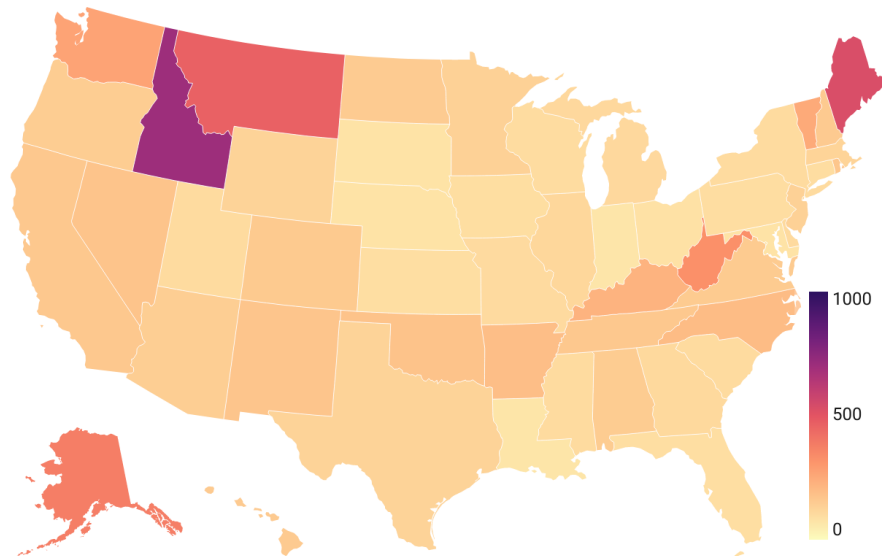
Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

New case rates improved across every state during the past two weeks

As of March 4

New Cases / Million / Day

7-Day Average, As of March 4

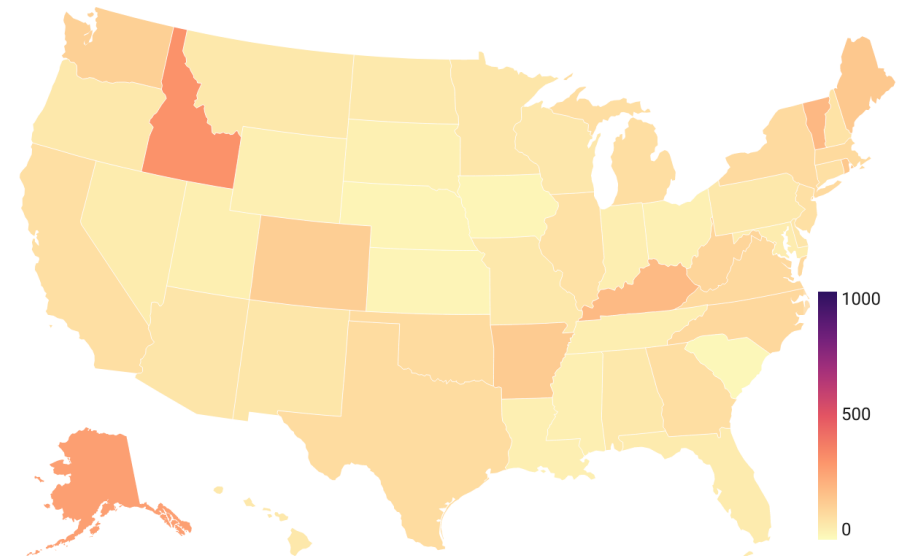


Map: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

As of March 18

New Cases / Million / Day

7-Day Average, As of March 18



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

Fewer people died with Covid last week than any week in seven months. Forecasted deaths drop by one-half again in the next three weeks

Actual Rate

Deaths With Coronavirus

7-Day Average, Through March 18

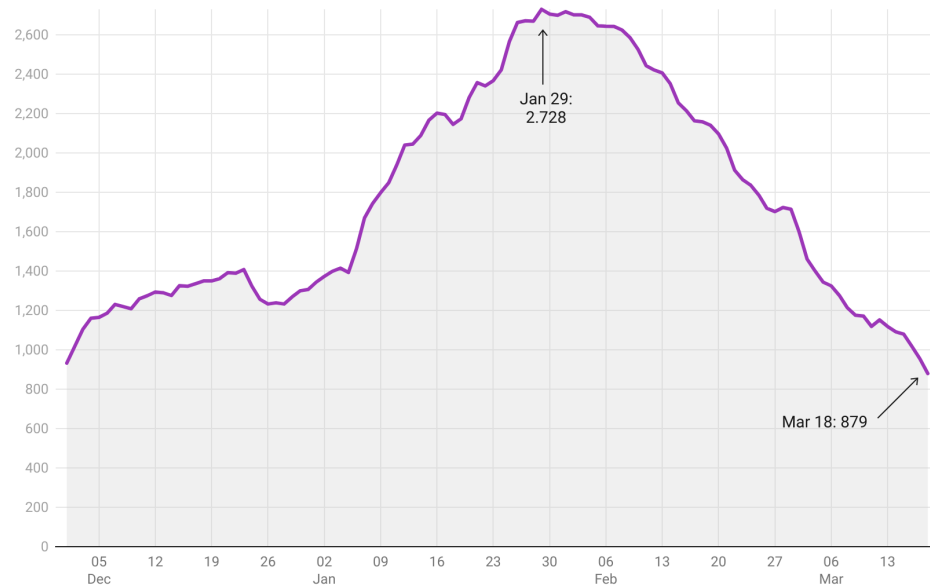
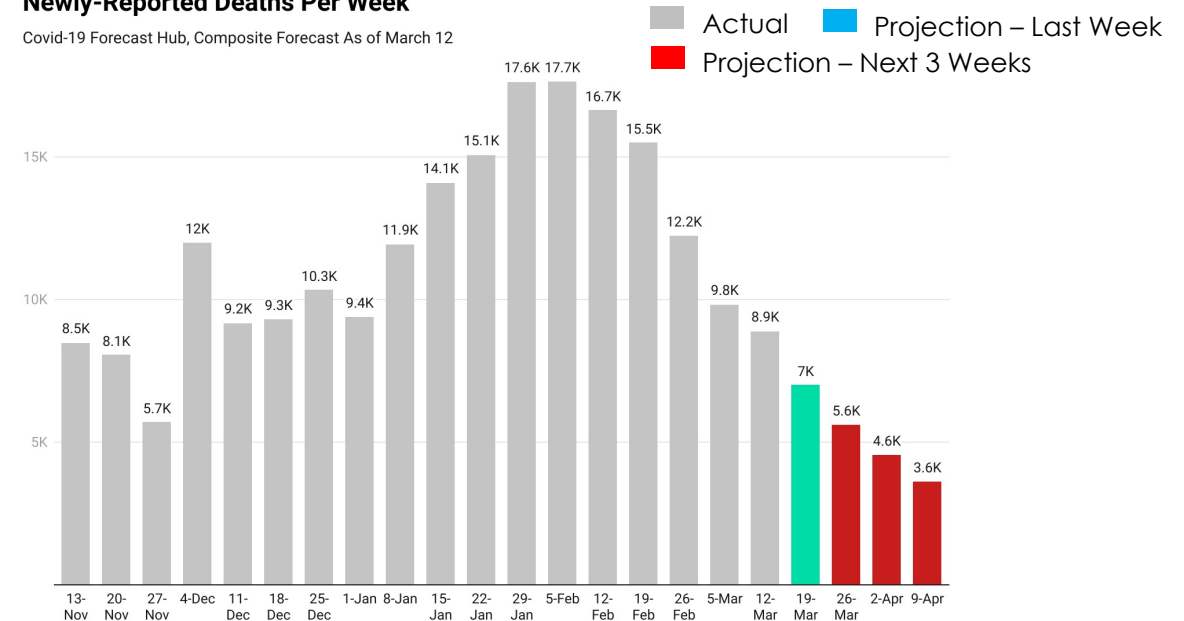


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Ensemble Forecast

Newly-Reported Deaths Per Week

Covid-19 Forecast Hub, Composite Forecast As of March 12



For the week ending on the date shown

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

Sources

- ▶ Bloomberg Vaccine Trackers, <https://www.bloomberg.com/graphics/covid-vaccine-tracker-global-distribution/?sref=Z0b6TmH>
- ▶ 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, COVID-19 Laboratory-Confirmed Hospitalizations https://gis.cdc.gov/grasp/COVIDNet/COVID19_5.html
- ▶ 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, Vaccines, <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/index.html>
- ▶ 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 Forecast Hub, <https://viz.covid19forecasthub.org>
- ▶ COVID-19 Projections Using Machine Learning, <https://covid19-projections.com>
- ▶ 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>
- ▶ Our World In Data, <https://ourworldindata.org/covid-vaccinations>
- ▶ U.S. Department of Health & Human Services <https://beta.healthdata.gov/dataset/COVID-19-Diagnostic-Laboratory-Testing-PCR-Testing/j8mb-icvb>
- ▶ U.S. Department of Health & Human Services: <https://healthdata.gov/dataset/covid-19-estimated-patient-impact-and-hospital-capacity-state>
- ▶ Worldometers.info: <https://www.worldometers.info/coronavirus/>
- ▶ Yale School of Public Health & Harvard TH Chan School of Public Health, <https://covidestim.org>