



"Strategic Advice in an Era of Unprecedented Change"

COVID19 VITAL SIGNS

ISSUE #375

MONDAY, MARCH 28, 2022

Highlights – As of March 25

U.S. View

- ▶ CDC wastewater monitoring signals an increase in Covid levels:
 - ▶ Among 496 sites reporting March 9-23, 42% reported increased SARS-CoV-2 levels compared to the prior 15-day period
 - ▶ On quarter of these sites reported increase of 100% or more
- ▶ Several heavily-populated areas reported increased cases last week:
 - ▶ New York: 32%, New Jersey, 22%; Florida, 9%; Illinois, 8%; Texas, 4%
 - ▶ New York City: 26%
- ▶ The CDC rates 91% of U.S. communities as "Low" for virus transmission and healthcare impact; less than 2% are rated "High"
- ▶ Cases in the U.S. fell to the lowest level since July 6-13. However, the weekly decline in new cases slowed to its lowest point since mid-January
- ▶ Hospital admissions and patient days fell to levels last seen in June 2021
- ▶ IHME predicts cases and hospitalizations will continue falling in the U.S. through at least July 1
- ▶ Fewer people died with Covid last week than at any time since August 1-6

Global View

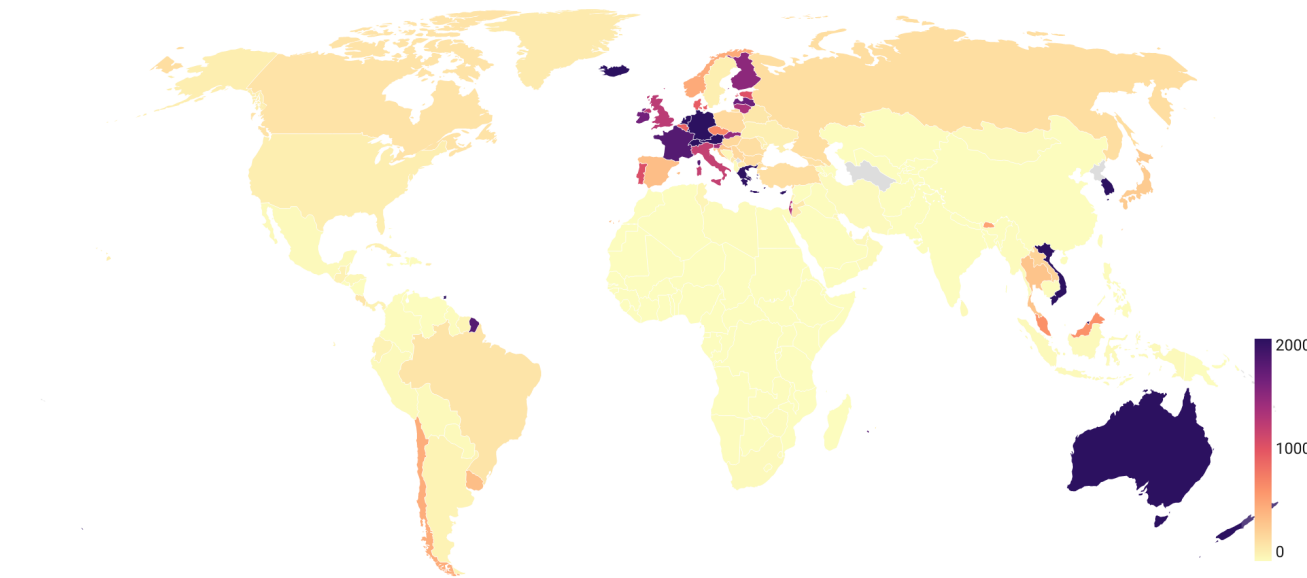
- ▶ Covid infections raged across Europe and the Asia Pacific region last week:
 - ▶ The highest infection rates per capita were found in Australia, Austria, Cyprus, Germany, Greece, Iceland, the Netherlands, New Zealand, South Korea, Switzerland, and Vietnam
 - ▶ The number of new cases spiked week-over-week in Laos (162% increase), Israel (94%), France (43%), Australia (30%) and Spain (26%)
 - ▶ Nonetheless, several European countries saw cases ebb in the past few weeks, including Austria, Greece, the Netherlands, Russia, Sweden, Switzerland, and the United Kingdom
- ▶ Hong Kong suffered 4x as many Covid deaths per capita last week than any other country, and nearly 15x the United States rate
- ▶ IHME projects that Covid infections will increase in China through late-May.
 - ▶ China's projected infection rate peaks at 10.3 million per day
 - ▶ On a per capita basis, this peak represents 60% of the U.S. peak posted in January

Covid spread across Europe and the Asia Pacific region again last week

Global

New Daily Cases / Million

7-Day Average, As of March 25

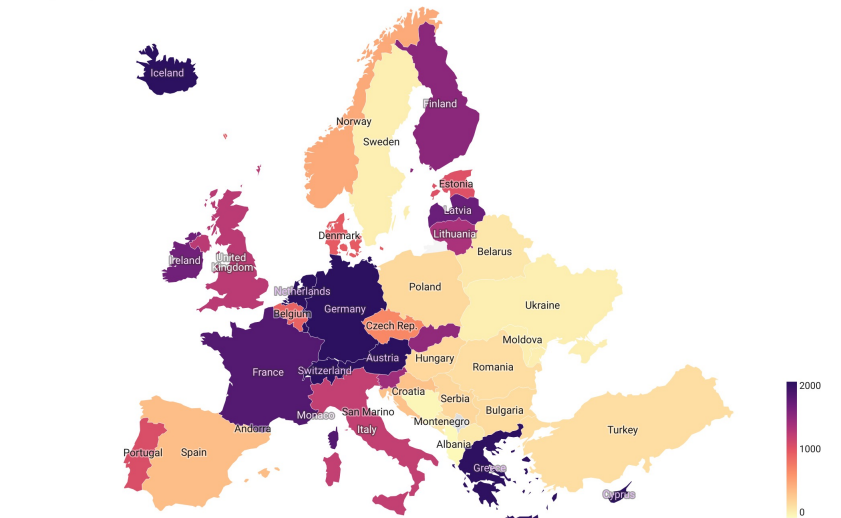


Map: Health Industry Advisor LLC • Source: worldometer.info • Created with Datawrapper

Europe

New Daily Cases / Million

7-Day Average, As of March 25



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

The Asia-Pacific region faced high infection rates last week

Oceania

New Daily Infections / Million

7 Day Average, As of March 25



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

Asia

New Daily Infections / Million

7 Day Average, As of March 25

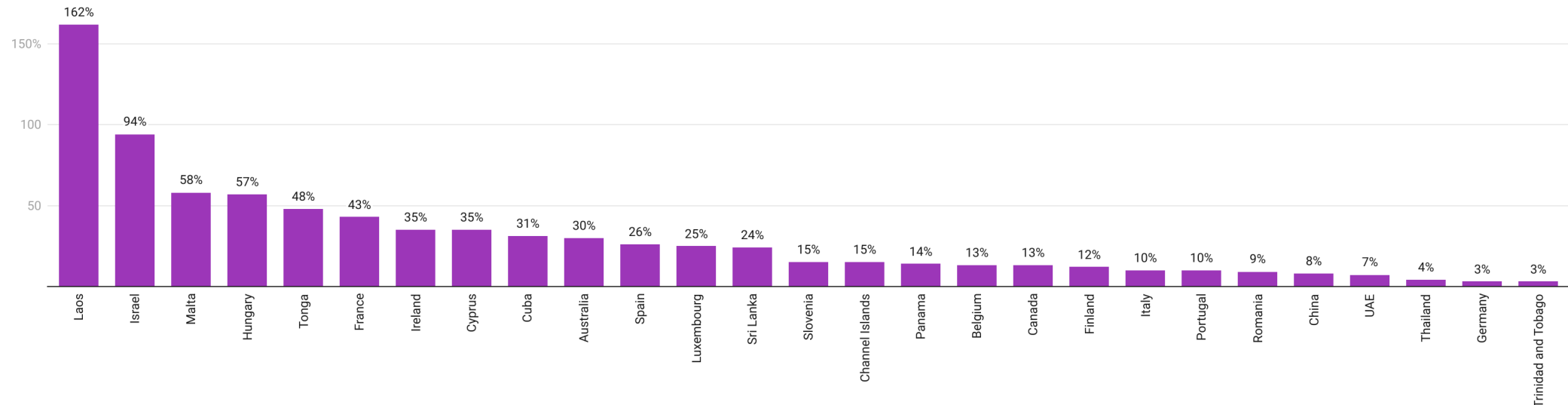


Map: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

New cases nearly doubled in Israel last week and spiked 25-50% in Australia, France, Ireland, and Spain. Even China posted rising cases last week

Week-over-Week Increase in Covid Cases

As of March 25



Countries with a minimum of 1000 daily cases prior week

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

Europe starts to recover from BA.2: Austria, Greece, and the Netherlands report sharply falling cases . However, Germany and France suffer high and increasing infection rates

Daily Cases per Million v. Weekly Case Growth

7-Day Average, as of March 26

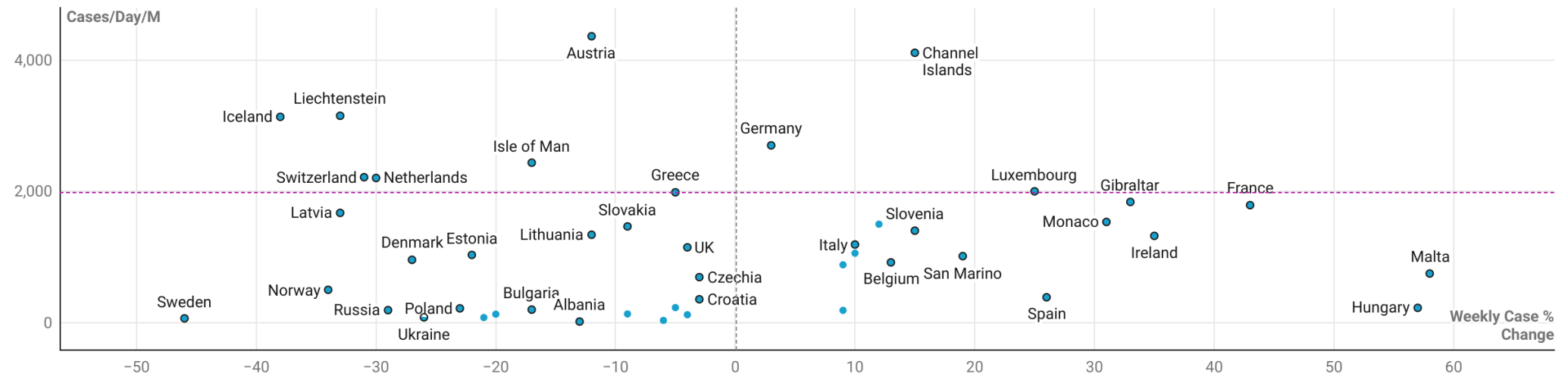


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Several countries with recent surges showing signs of recovery, including Austria, South Korea, and the Netherlands. Germany and France posting rising new cases

New Daily Cases per Million

7-day average

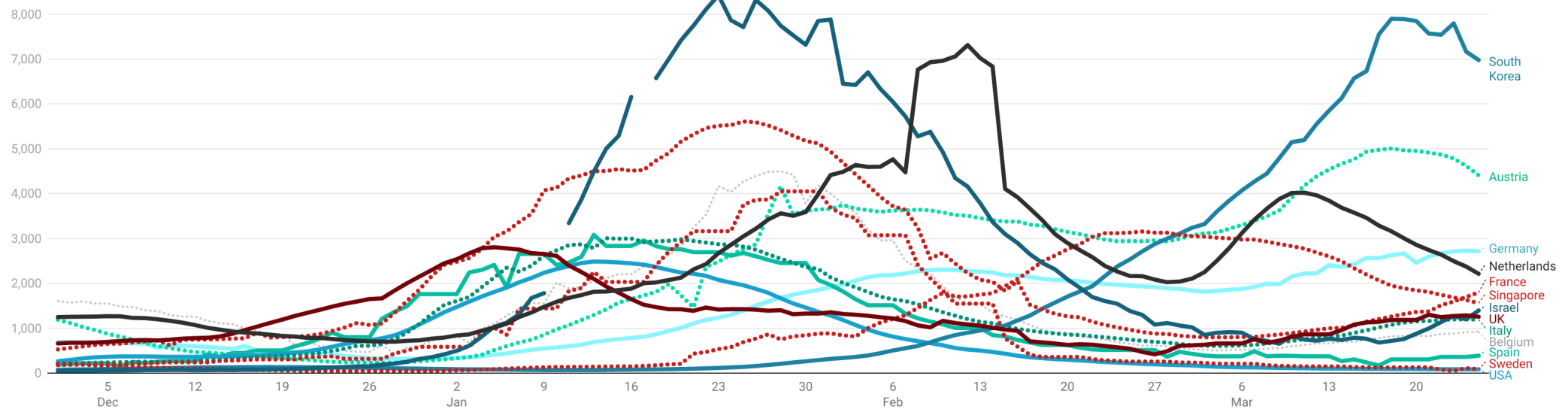


Chart: health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Hong Kong suffered substantially more deaths per capita from Covid last week than any other country – 4x higher than 2nd highest Lichtenstein and 14.6x that of the United States

Covid Deaths per Day per Million Population

7-Day Average, As of March 25

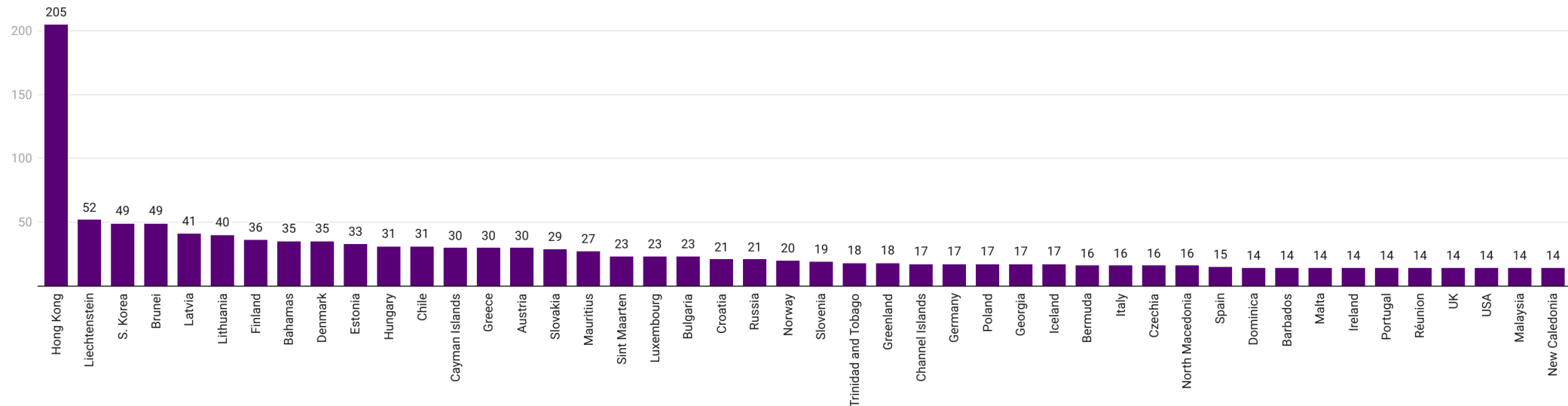
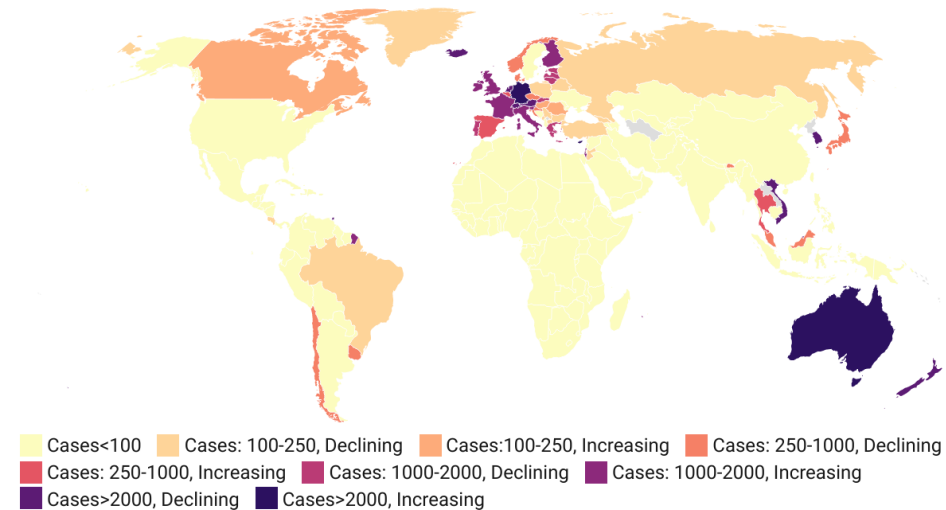


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

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

Virus Spread

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



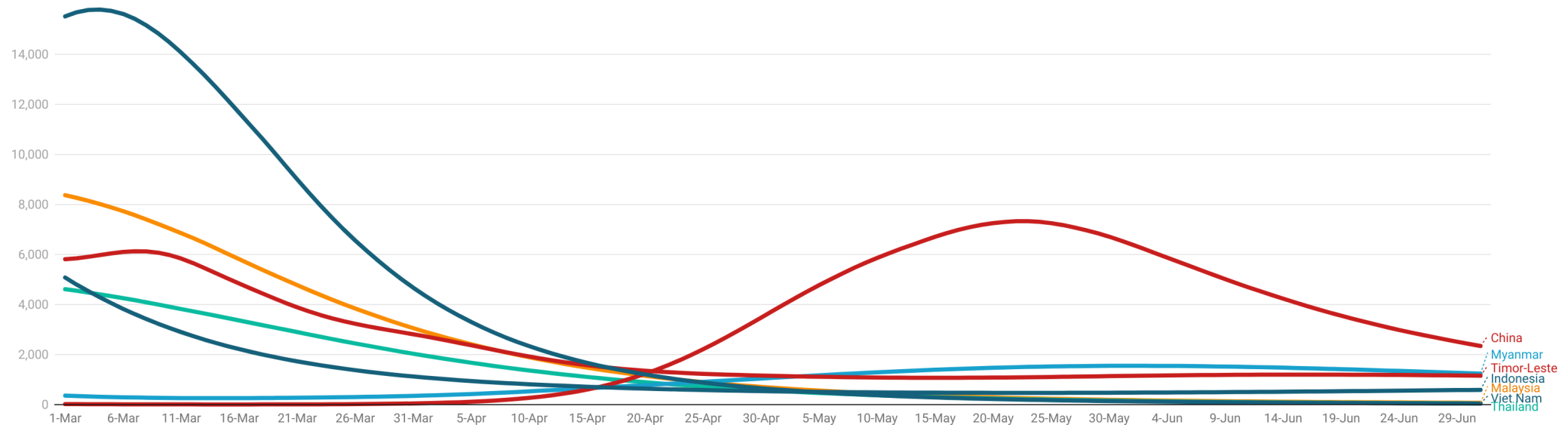
7-Day Average, As of March 25

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

IHME predicts a significant infection surge in China and a smaller wave in Myanmar. Projected infections recede in other Asia-Pac countries

Estimated Infections / Million (Projected)

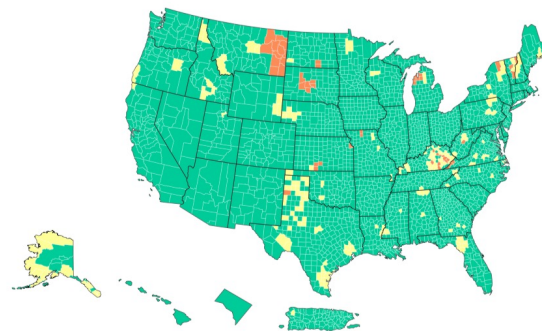
As of March 22



Source: Institute for Health Metrics and Evaluation • Created with Datawrapper

CDC rates most of the country as “Low” for Covid19 transmission and healthcare impact

COVID-19 Community Levels of All Counties in US



COVID-19 Community Levels in US by County

	Total	Percent	% Change
High	53	1.65%	-0.37%
Medium	233	7.24%	-6.09%
Low	2934	91.12%	6.46%

[How are COVID-19 Community Levels calculated?](#)

Source:
https://covid.cdc.gov/covid-data-tracker/#county-view?list_select_state=all_states&list_select_county=all_counties&data-type=CommunityLevels

Low Medium High No Data

Sat Mar 26 2022 05:58:58 GMT-0400

Cases eased lower last week, to the lowest level seen since July 7-13. However, modest decline (<7%) reflected the smallest week-over-week decline since mid-January

New Daily Cases per Million

7-Day Average, Through March 25

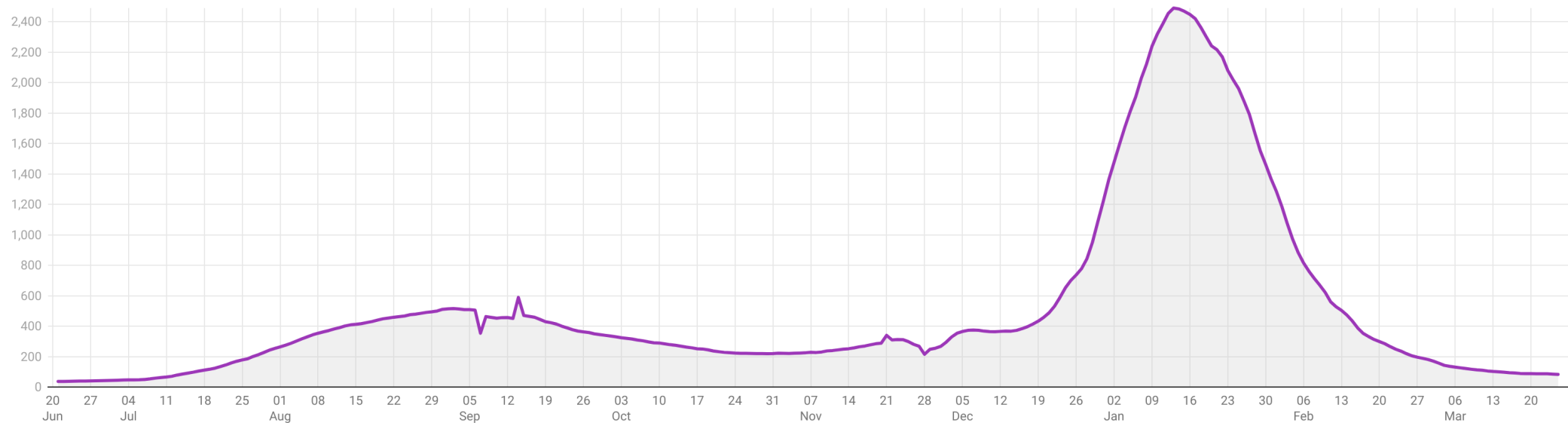


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Source: Covid-19 Forecast Hub

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

Week-Over-Week Change in Newly Reported Cases

7-Day Average

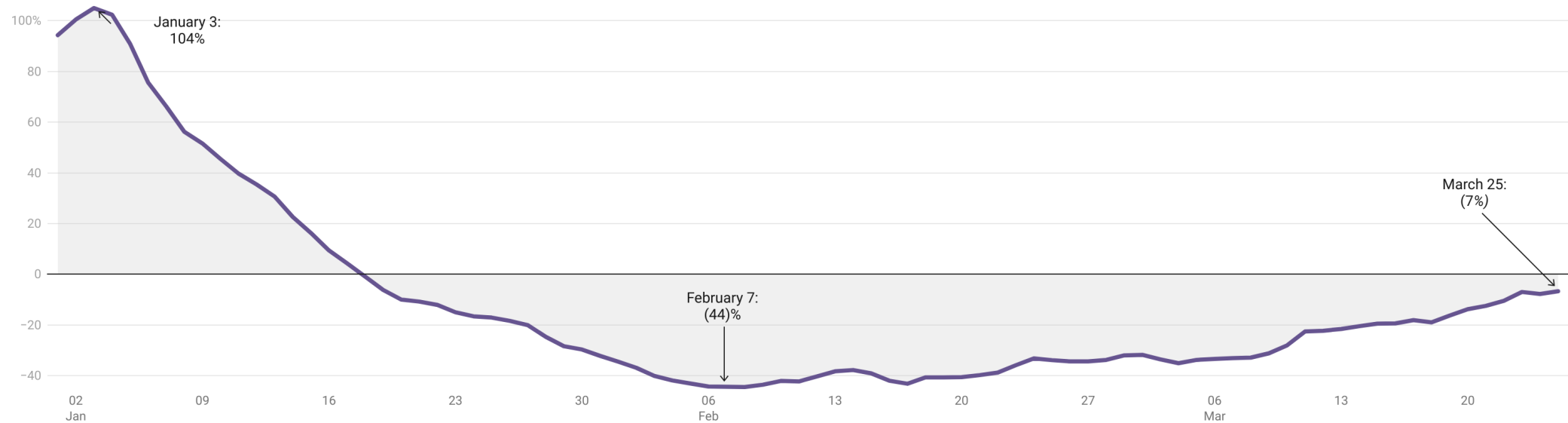
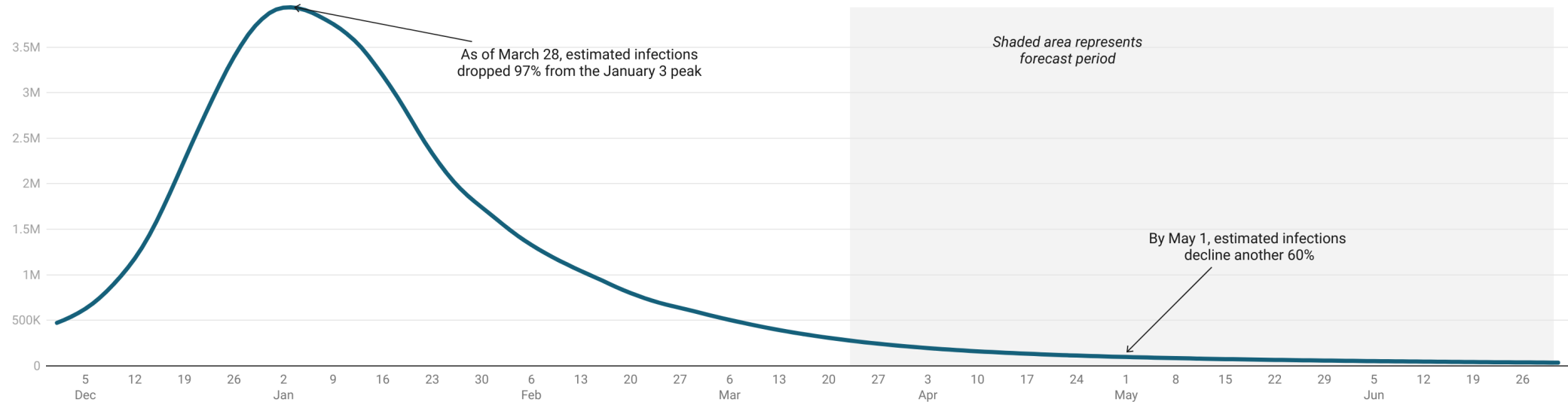


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

IHME projects infections to decline another 60% during April

Estimated and Projected Infections - U.S.

Institute For Health Metrics and Evaluation



Forecast Date: March 22

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

Nationwide, Covid admissions and patient days fell to levels not seen since late June 2021

Covid-19 Admissions & Census

7-Day Average Thru March 23

The Covid census fell to its lowest level since June 28, 2021

Covid admissions fell to the lowest level since June 25, 2021

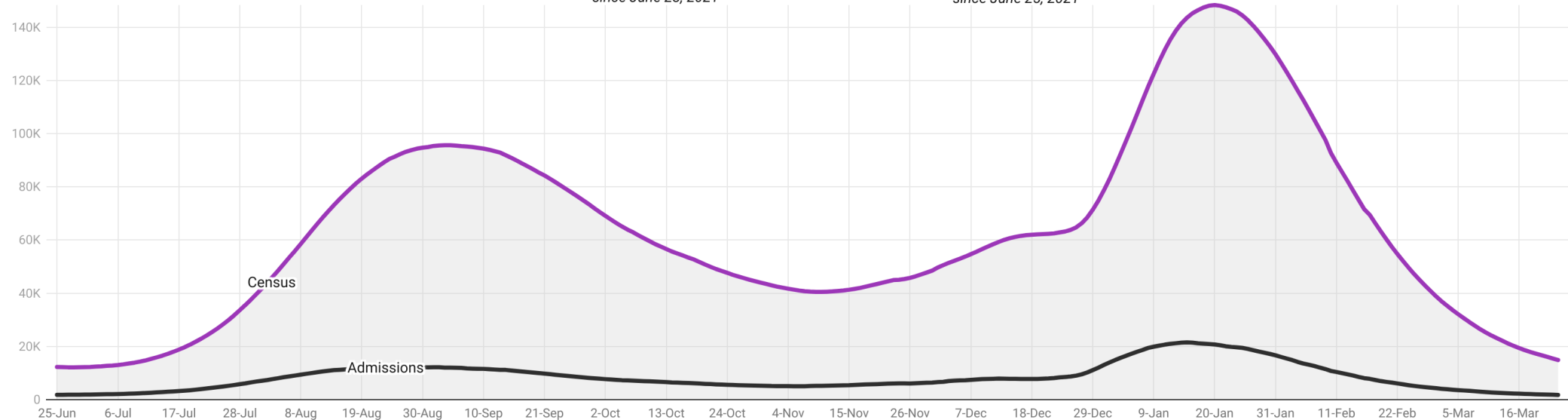
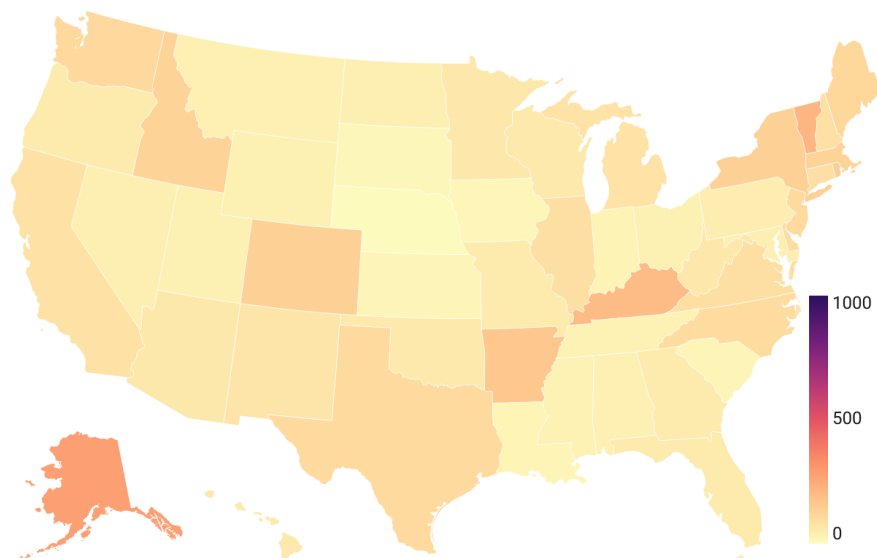


Chart: Health Industry Advisor LLC • Source: Centers for Disease Control and Prevention • Created with Datawrapper

New case rates started to increase last week in heavily-populated Florida, Illinois, New Jersey, New York, and Texas

New Cases / Million / Day

7-Day Average, As of March 25



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

Weekly Increase (Decrease)% in New Cases

7-Day Average, As of March 25

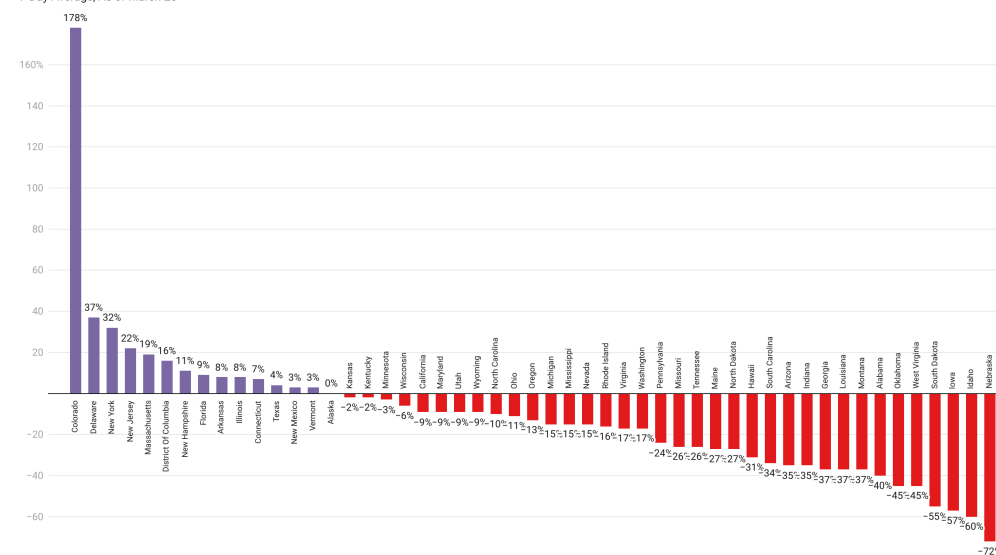


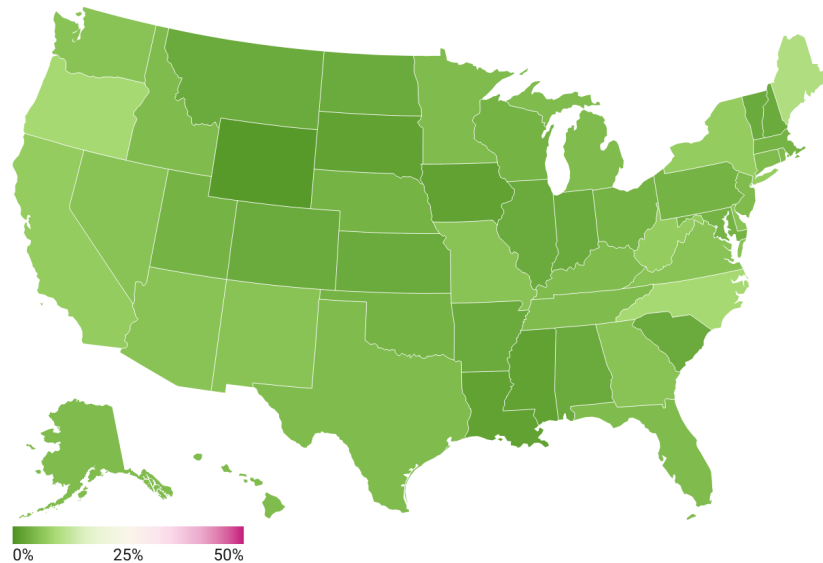
Chart: Health Industry Advisor LLC • Source: worldometer.info • Created with Datawrapper

Hospital Covid census plunged in the past two months. In January, Covid patients occupied nearly one of every two beds. Last week, Covid patients occupied only one of every twenty beds

As of March 23

Covid-19 Patients As % of All Inpatient Beds

As of March 23

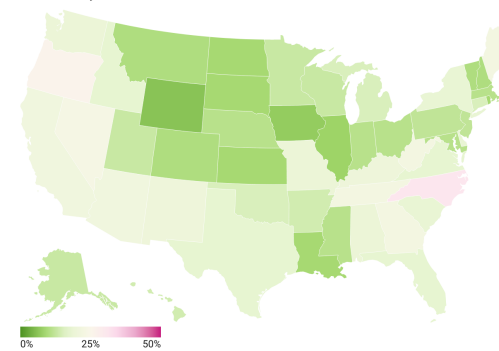


Map: Health Industry Advisor LLC • Source: Centers for Disease Control and Prevention • Created with Datawrapper

As of February 24

Covid-19 Patients As % of All Inpatient Beds

As of February 24

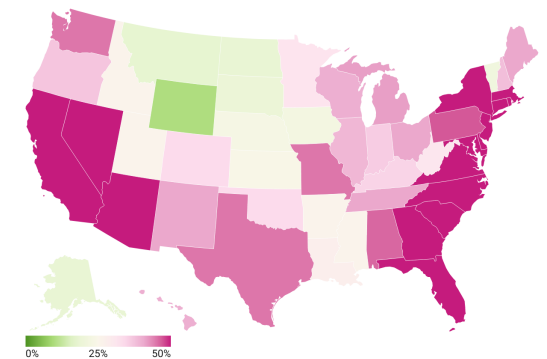


Map: Health Industry Advisor LLC • Source: Centers for Disease Control and Prevention • Created with Datawrapper

As of January 23

Covid-19 Patients As % of All Inpatient Beds

As of January 23

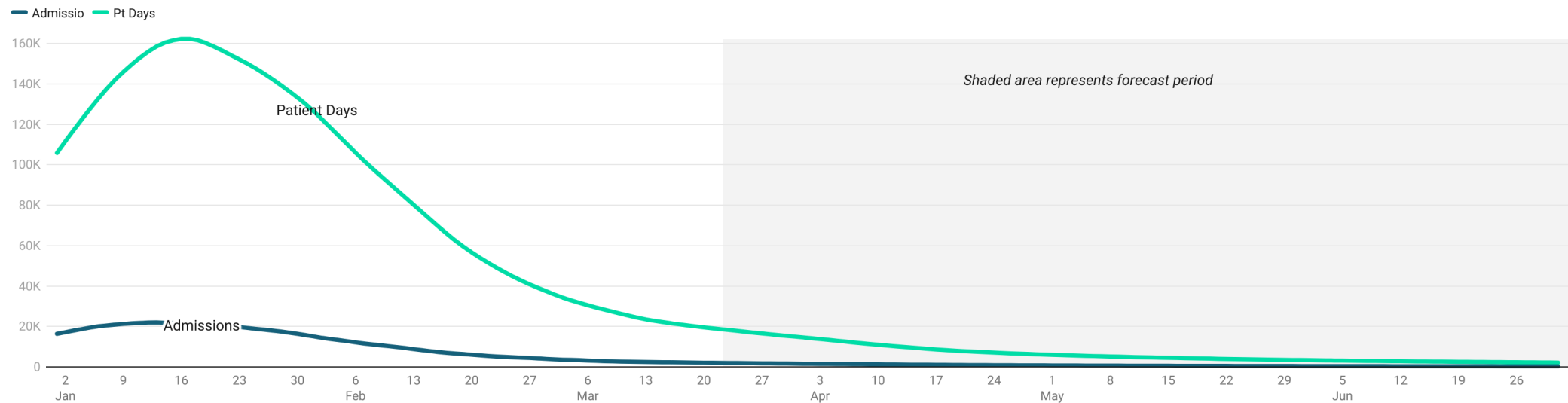


Map: Health Industry Advisor LLC • Source: Centers for Disease Control and Prevention • Created with Datawrapper

IHME anticipates further drops in Covid admissions and patient days – admissions but more than ½ in a month and by 75% in the next two months; 61% and 78% for patient days

Estimated & Projected Hospital Covid-19 Admissions & Patient Days

Institute for Health Metrics and Evaluation



Forecast Date: March 22

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

The test-positive rate fell to 2.2% last week - as low as it has been since last June

Test-Positivity Rate

7-Day Average, Through March 22

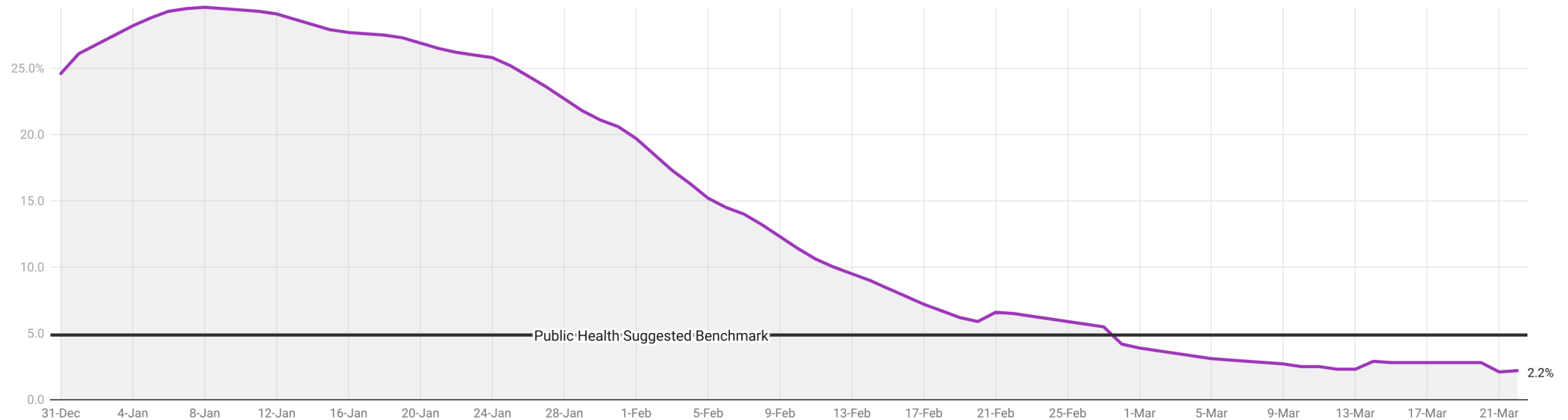


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper

Fewer people died with Covid last week than at any time since August 1-6

Deaths With Coronavirus

7-Day Average, Through March 25

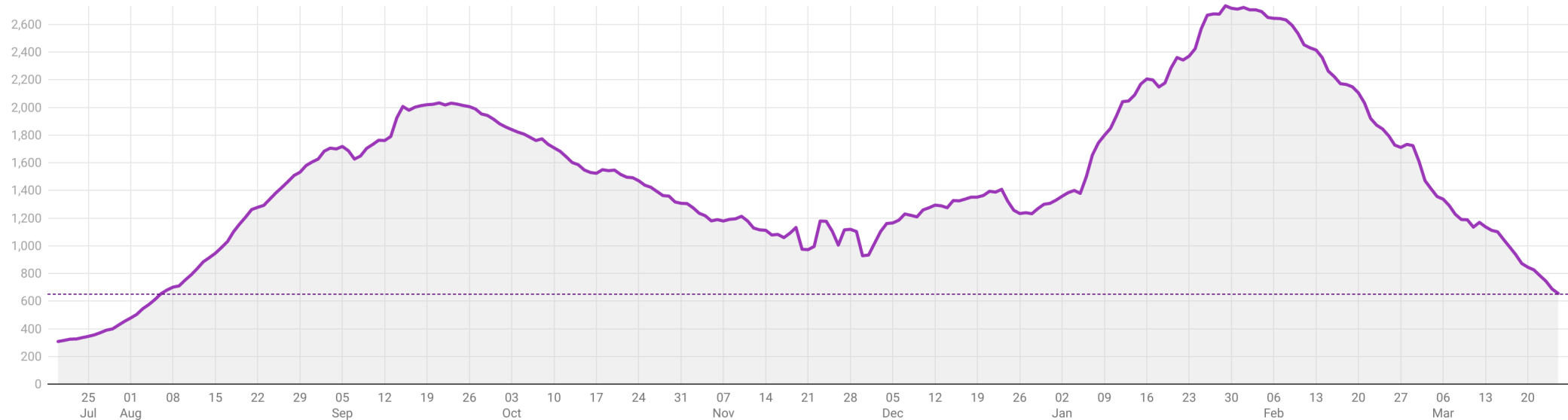


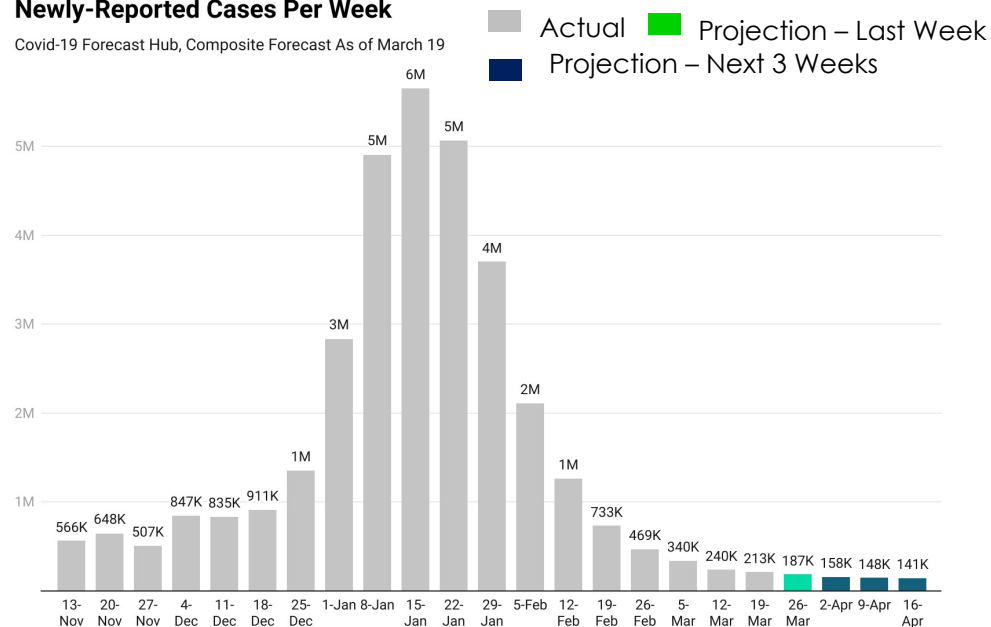
Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

An ensemble forecast predicts cases and deaths will further decline over the next three weeks

Forecasted Infections

Newly-Reported Cases Per Week

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



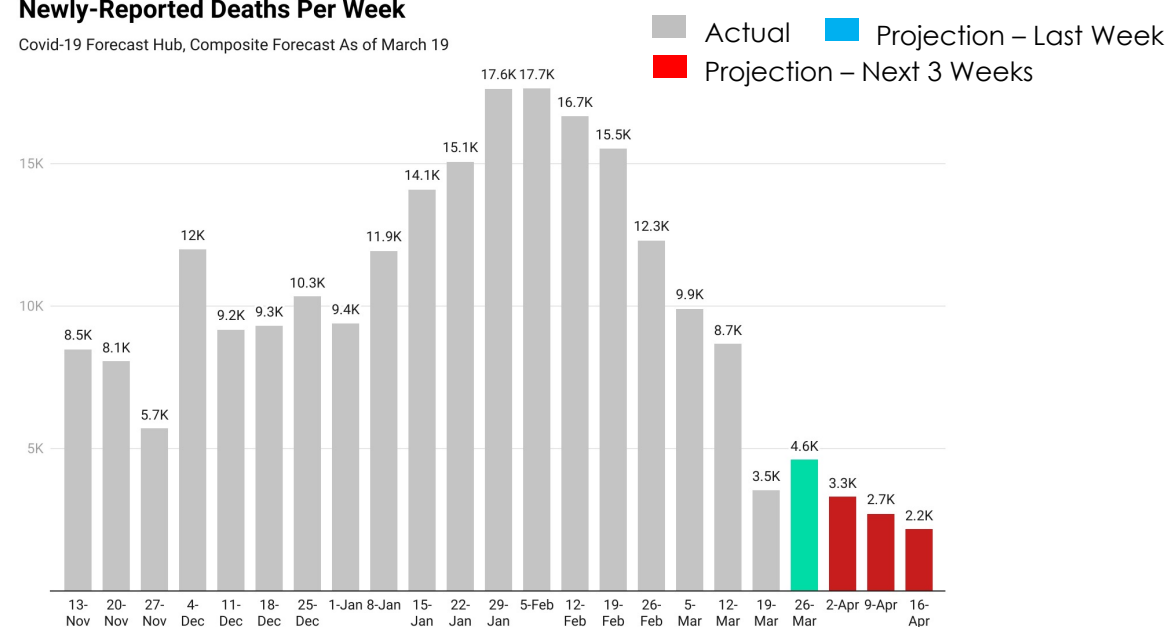
For the week ending on the date shown

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

Forecasted Deaths

Newly-Reported Deaths Per Week

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



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=ZOb6TmH>
- ▶ 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>
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- ▶ 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>