



*"Strategic Advice in an Era of Unprecedented Change"*

Issue #380

Monday, May 2, 2022

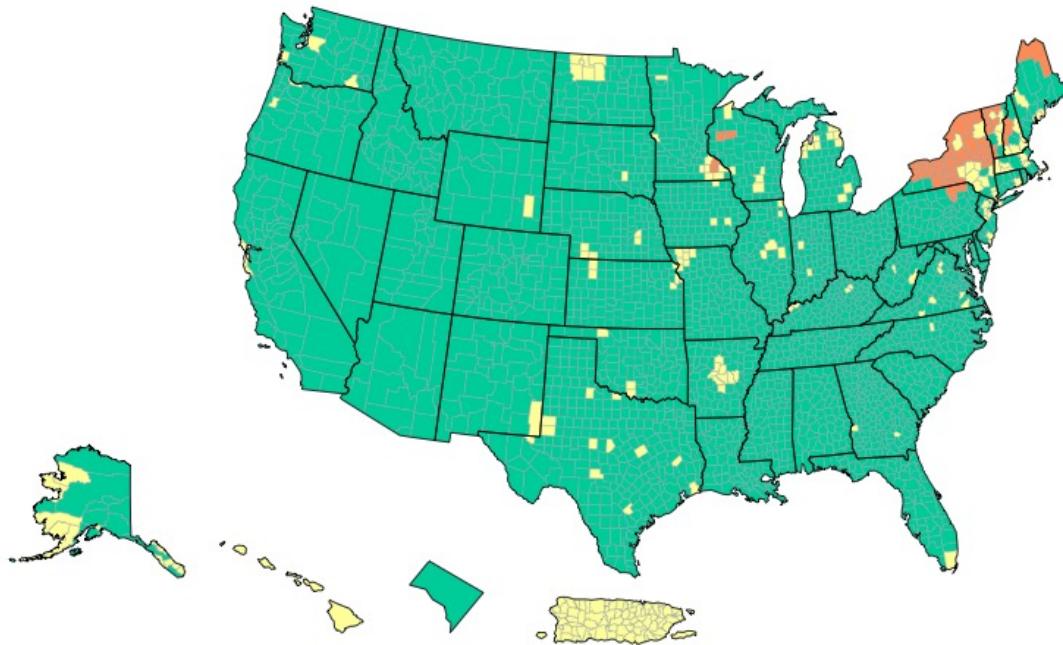
COVID19  
VITAL SIGNS

## Highlights – As of April 29

- Despite rising cases across the United States, the CDC rates much of the country (90% of counties) as “Low” in its latest Community Level scorecard (measuring transmission and health system impact)
- Fewer than 2% of counties rate “High” in this scorecard; these counties are concentrated in New York and Maine
- The CDC’s Community Transmission scorecard tells a different story: Nearly half of all counties rate “High” or Substantial” for virus transmission. These counties are concentrated in the Northeast, Midwest, West , south Florida, and south Texas
- This infection wave commenced two month ago in Northeast states. Cases in these states continue increasing week to week, though the rate of weekly increase may be slowing
- The Northeast endured the highest case rates in the U.S. last week. Vermont, Rhode Island, Massachusetts, New York, and New Jersey led all states
- This latest infection wave has largely spared the healthcare system thus far. Covid admissions increased by one-third in the past two weeks, far slower than cases increased
- New York, often a bellwether for infection spread in this country, experienced a 3.3x increase in daily cases in the past two months. Covid admissions grew at less than half as quickly during this time
- Nearly half of all counties reported no Covid admissions for the seven days through April 27; 92% admitted ten or fewer patients
- Fewer than 300 people died with Covid per day last week - the first time this occurred since mid-July
- An ensemble forecast published last week suggests that new cases will stabilize in the next few weeks. However, this forecast expects that deaths with Covid will rise in the next three weeks
- Worldwide, cases declined 12% from the prior week. Cases fell in Asia (-10%), Europe (-12%) , Oceania (-8%), and South America (-3%) but rose in Africa (3%) and North America (10%)
- Australia, South Korea, Germany, Italy, and France posted the highest rates globally last week , among countries with at least 15 M population. Rates in the countries were at least three times higher than in any other large country
- The United States case rate ranked twelfth among large countries
- Cases in Taiwan surged last week, with 2.5x more cases last week than the week earlier. Cases doubled week-over-week in Ghana, Malawi, and South Africa

Fifty-six counties (1.7%) rate "High" in the CDC's Community Level system, which reflects virus transmission and health system impact. These are concentrated in New York and Maine

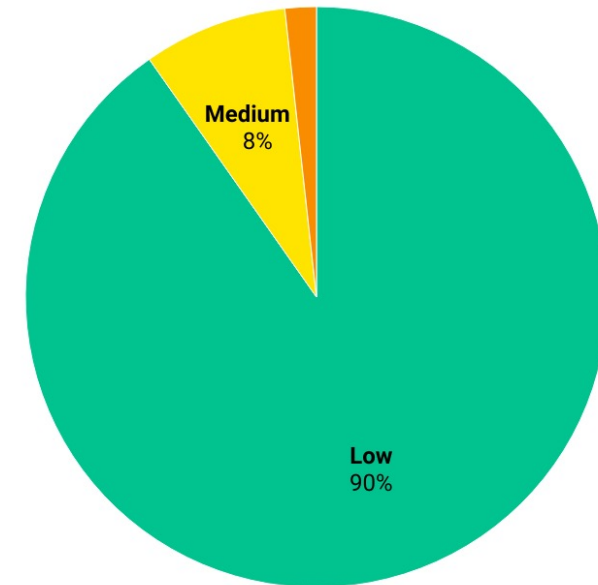
April 20-26, 2022



### Community Levels By County

As of April 27

Low Medium High

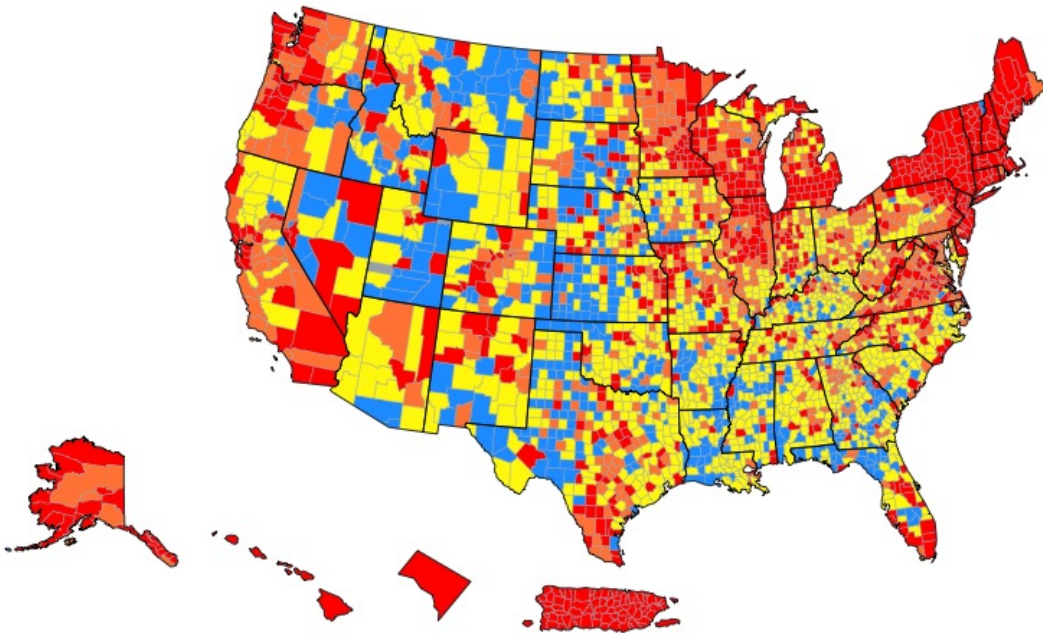


Source: Centers for Disease Control and Prevention website; accessed April 30, 2022

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

Virus spread in 28% of U.S. counties rates as “High”; spread is “Substantial” in 19% of these counties

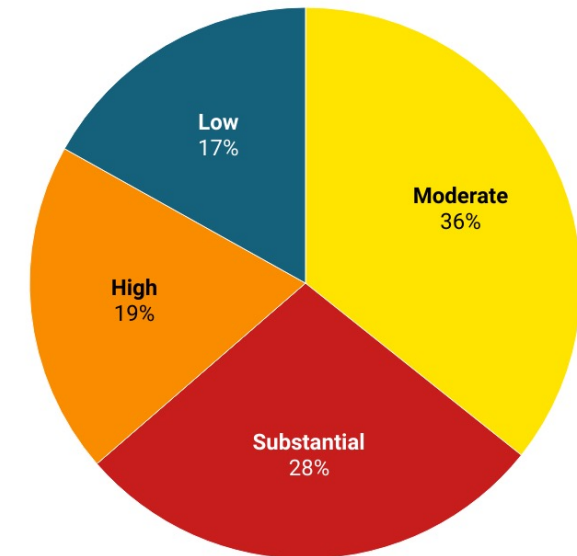
Community Transmission  
April 23-30, 2022



Community Transmission By  
County

As of April 27

Moderate Substantial High Low



Source: Centers for Disease Control and Prevention website; accessed April 30, 2022

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

Globally, cases fell 12% from a week earlier. Africa and North America reported more cases than a week ago; other continents reported declining cases

### Weekly Change in Cases By Continent

As of April 28

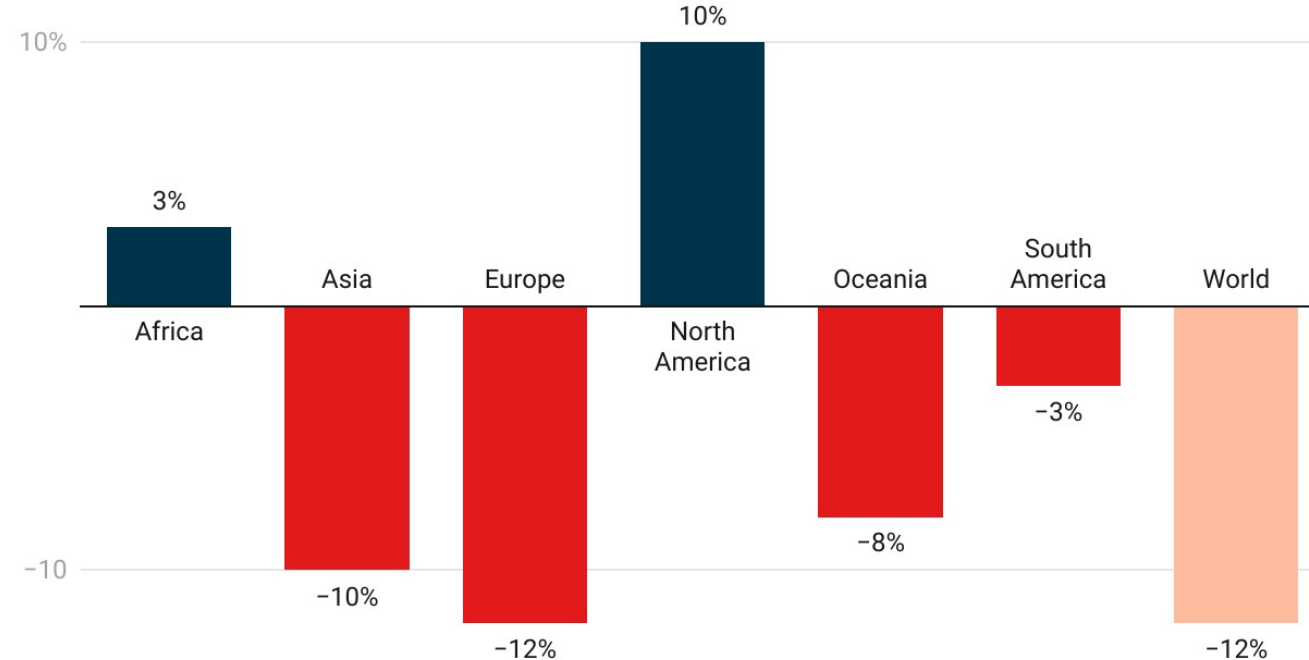
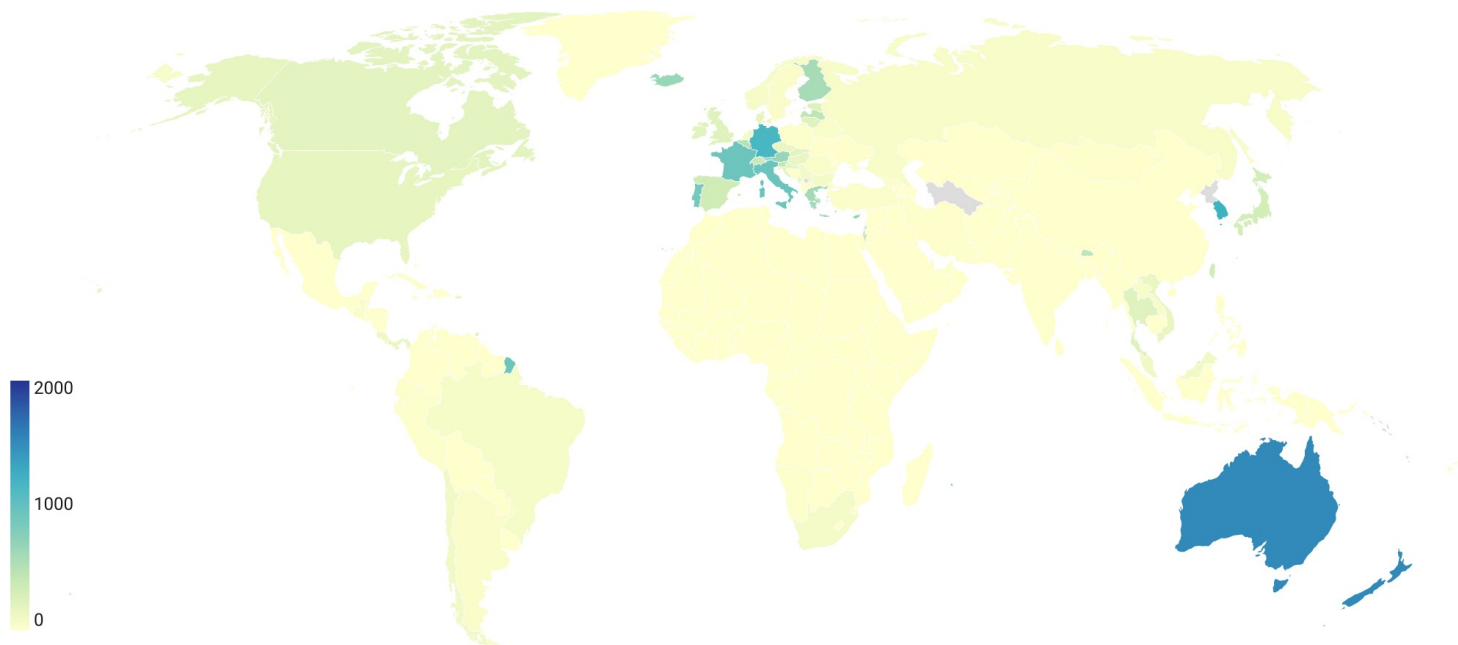


Chart: Health Industry Advisor LLC • Source: world-meters.info • Created with Datawrapper

Among large countries\*, Australia posted the highest case rate per capita last week, followed in order by South Korea, Germany, Italy, and France. The United States ranked twelfth

### New Daily Cases / Million

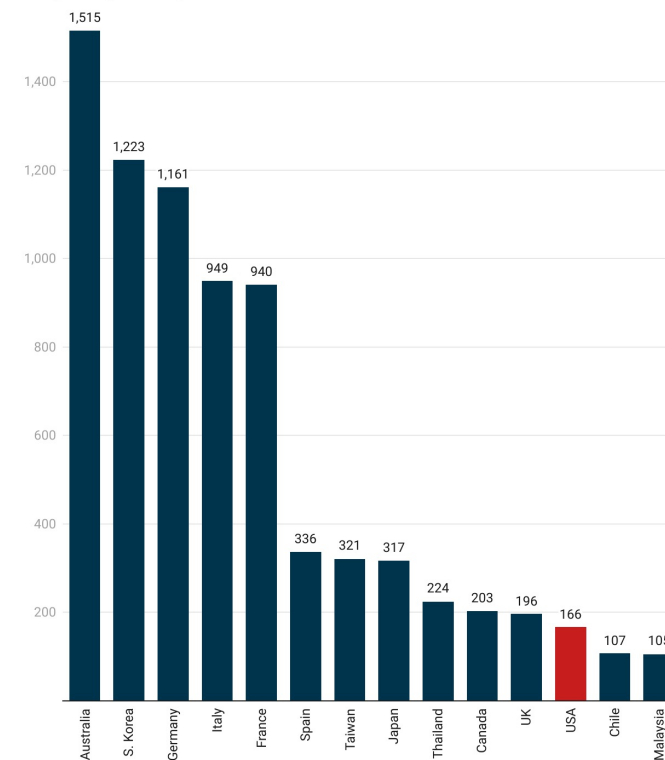
7-Day Average, As of April 29



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

### New Daily Cases Per Million

7-Day Average, As of April 29

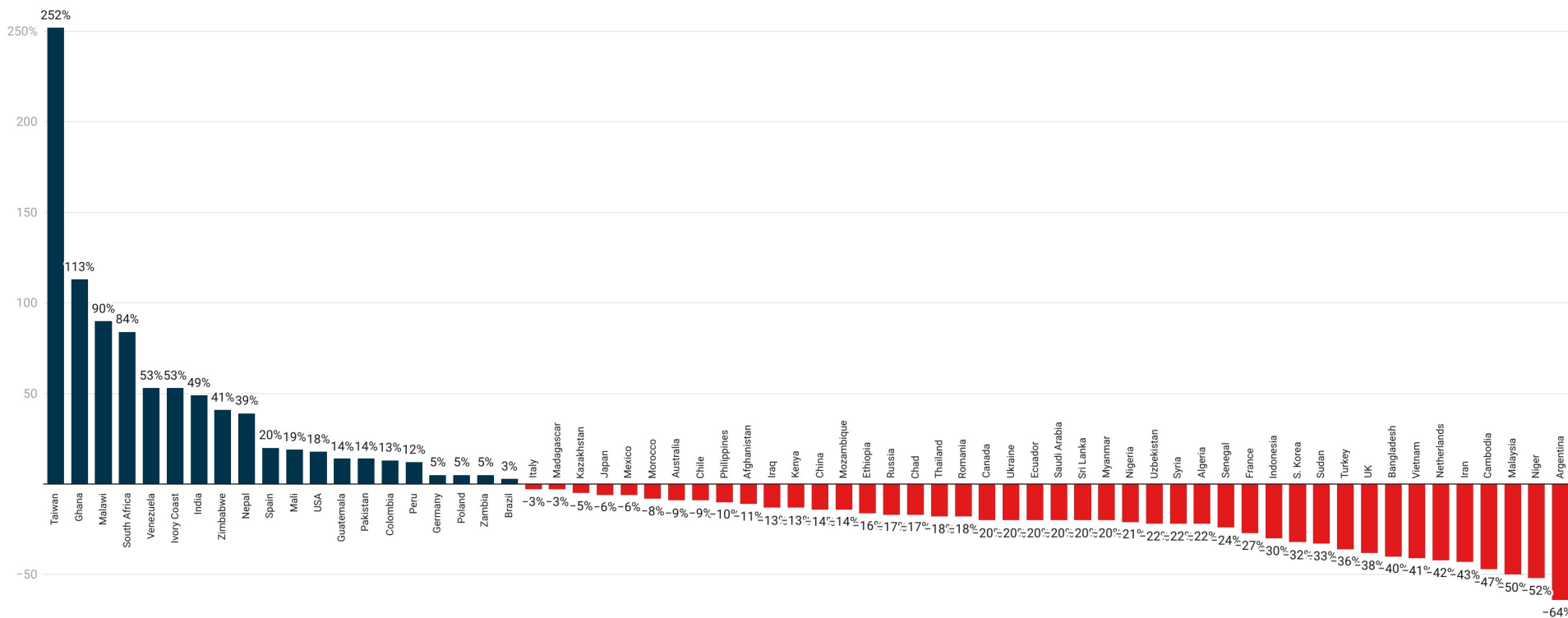


Countries with minimum 15M population and at least 10 new cases last week and prior week  
Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Taiwan outpaced large countries, with cases increasing by 2.5x from a week ago. Cases doubled in Ghana and nearly doubled in Malawi and South Africa

### Week-over-Week Increase in Covid Cases

As of April 29



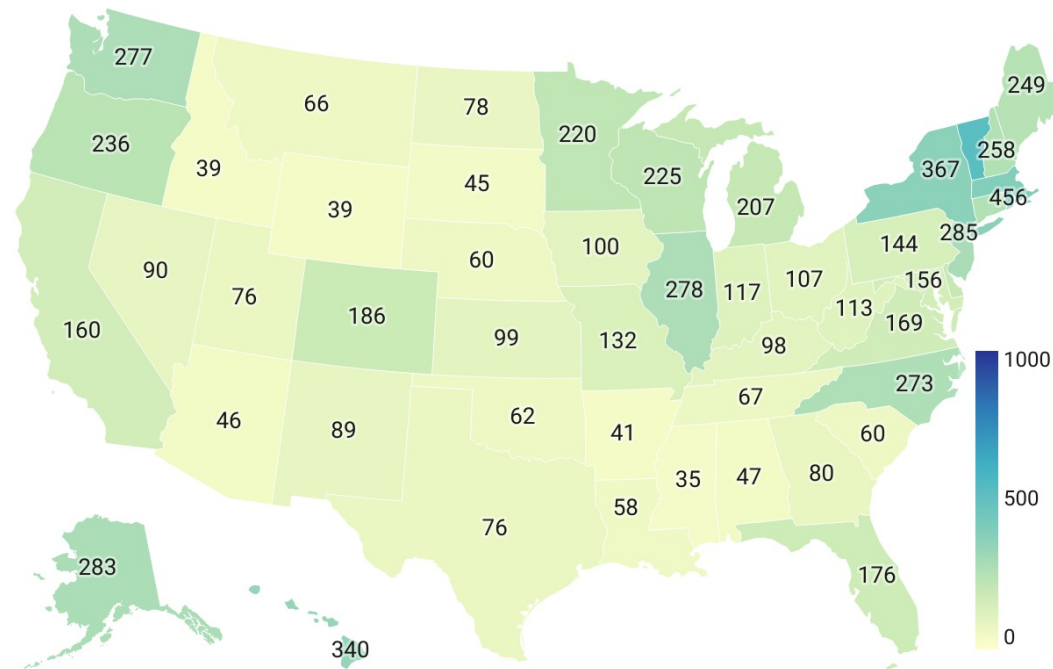
Countries with >15M population and minimum 10 cases each week

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

Case rates, while generally low in the United States, have moved higher in the past month in many states

### New Cases / Million / Day

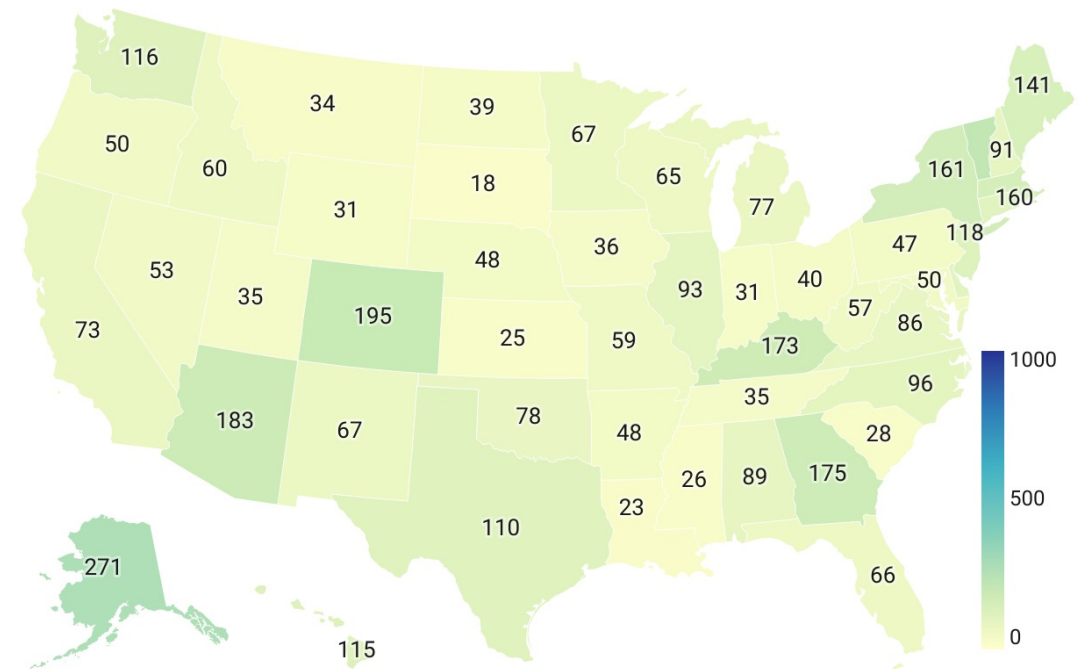
7-Day Average, As of April 29



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

### New Cases / Million / Day

7-Day Average, As of March 29



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

Cases continue trending upward in the Northeast, two months into this wave. However, the impact on hospitalizations has been restrained

### Trend: New Daily Cases per Million

7-day average

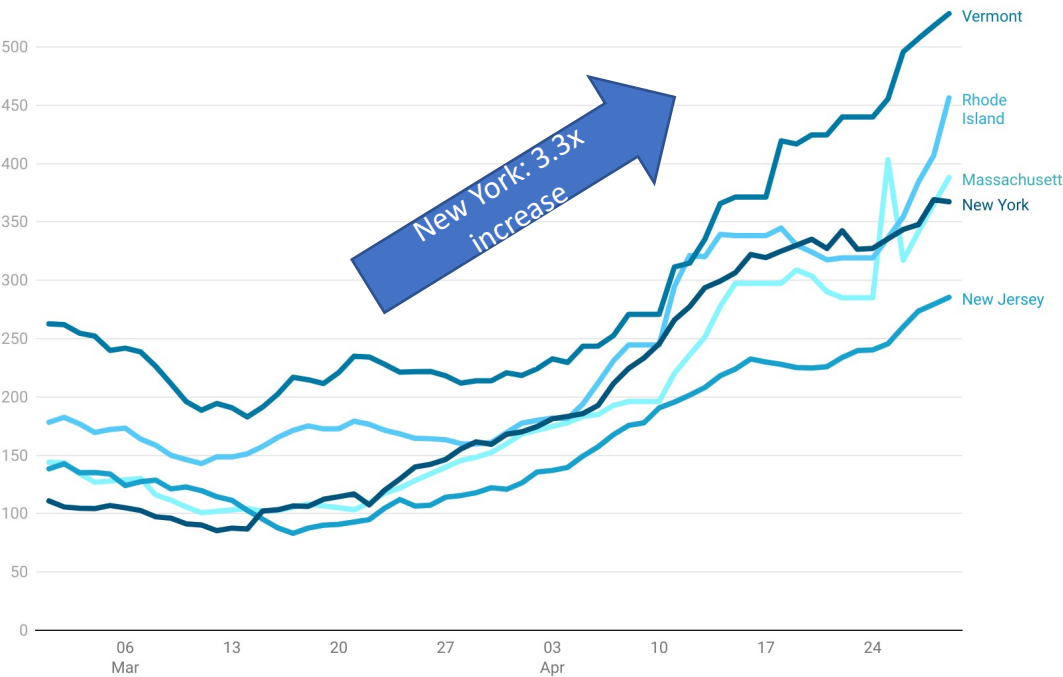


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

### Trend: New Covid Admissions

7-day average

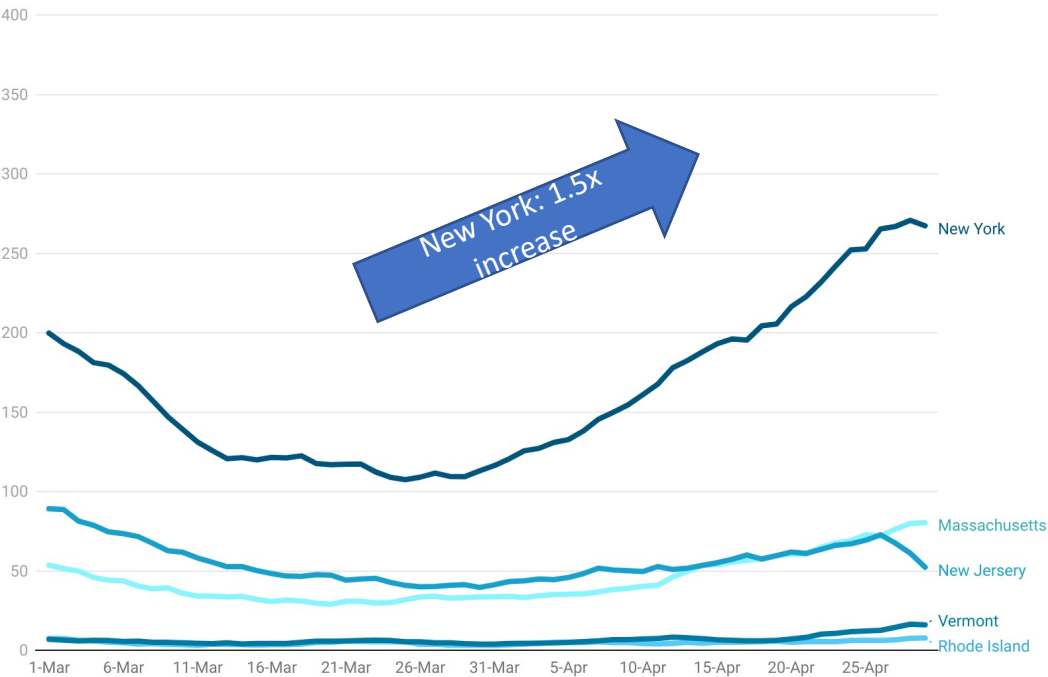


Chart: Health Industry Advisor LLC • Source: Centers for Disease Control and Prevention • Created with Datawrapper

Covid patient days increased 10% last week and 14% in the past two weeks. Covid admissions increased 17% and 31% in this time.

### Covid-19 Admissions & Census

7-Day Average Thru April 28

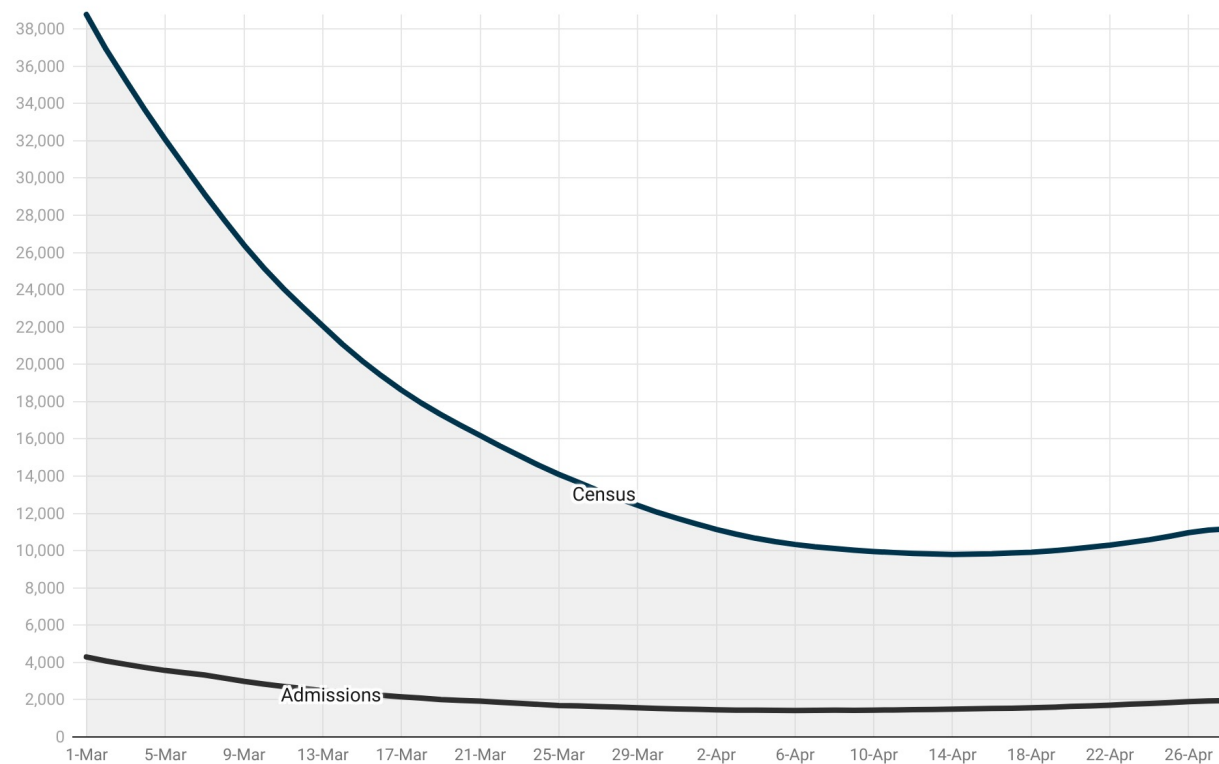


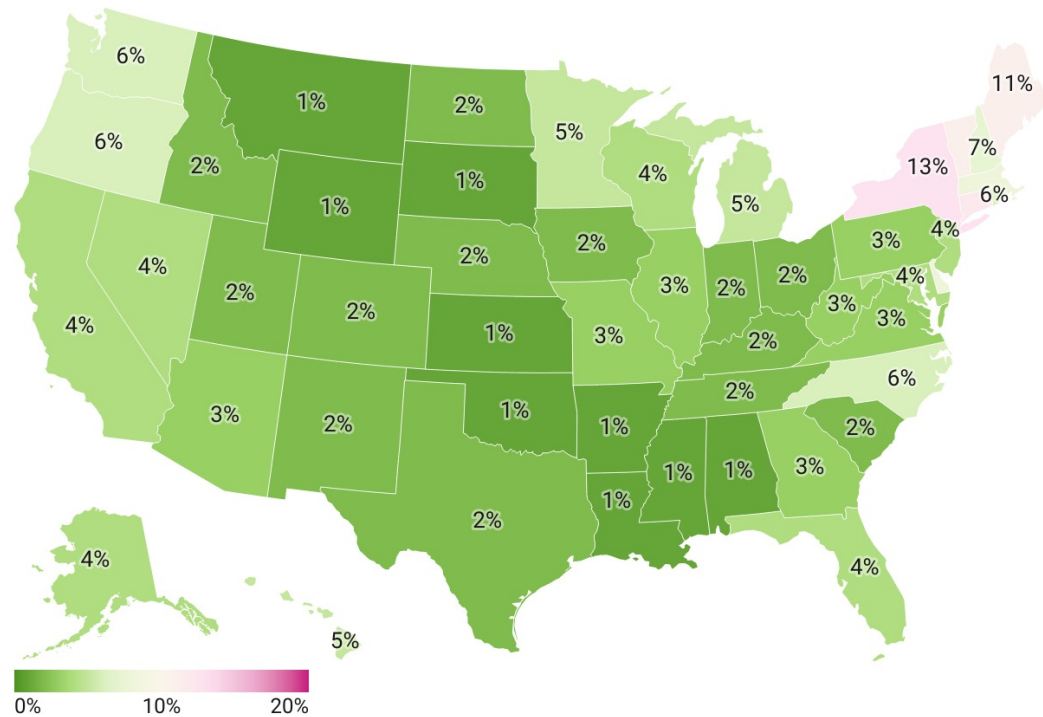
Chart: Health Industry Advisor LLC • Source: Centers for Disease Control and Prevention • Created with Datawrapper

Hospitalizations with Covid remain low. However, Covid patients now occupy more than 10% of inpatient beds in Connecticut, Maine, New York, and Vermont

### Covid-19 Patients As % of All Inpatient Beds

April 28

As of April 28

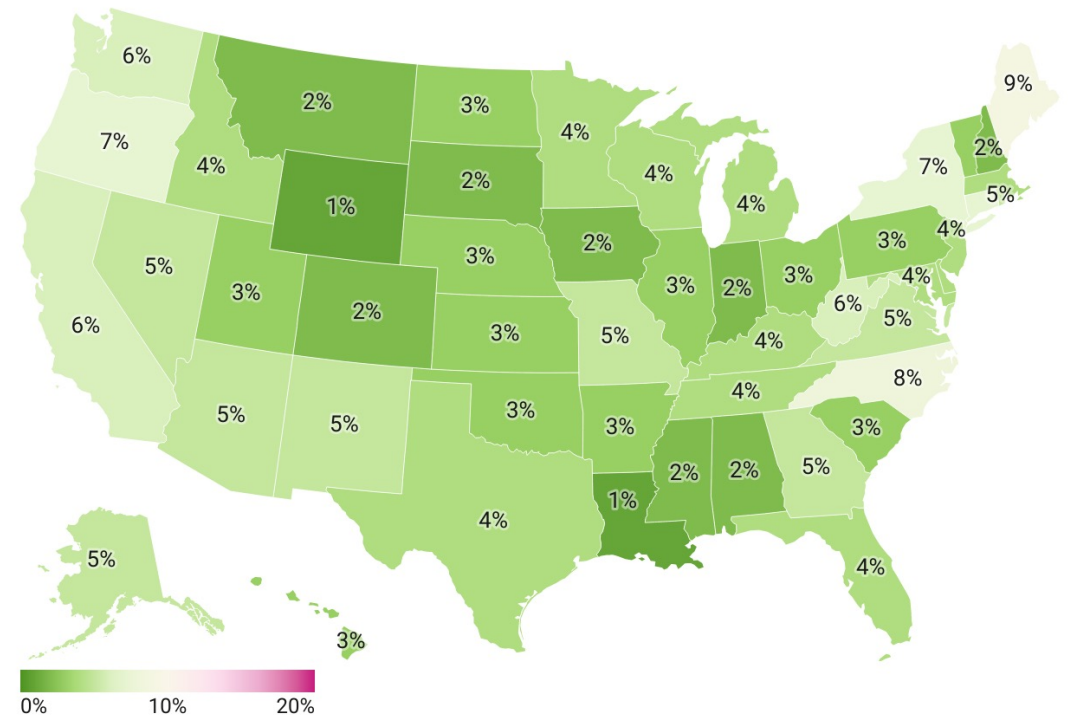


Map: Health Industry Advisor LLC • Source: Centers for Disease Control and Prevention • Created with Datawrapper

### Covid-19 Patients As % of All Inpatient Beds

March 28

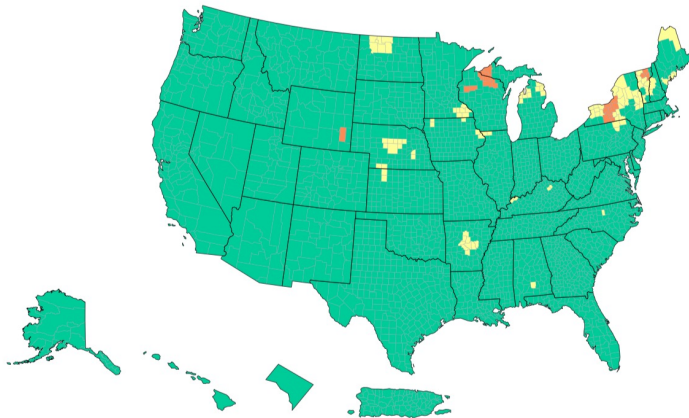
As of March 28



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

New Covid admissions remain low for much of the country: 96% of all counties admitted fewer than ten patients per 100,000 population

New COVID-19 admissions per 100,000 population (last 7 days) of  
All Counties in US



Sat Apr 30 2022 04:35:22 GMT-0400

### New Covid Admissions/100,000 By County - Week

As of April 27

■ <10 ■ 10-19.9 ■ >20

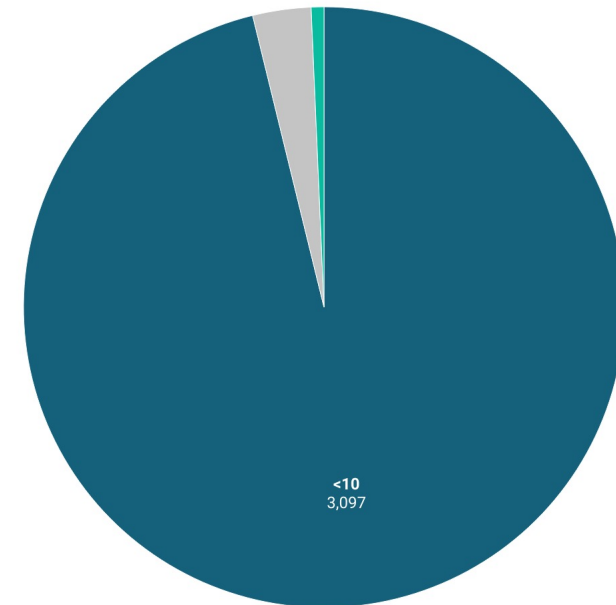
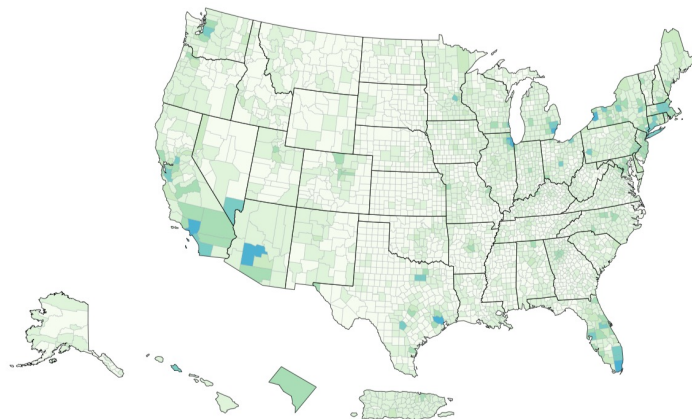


Chart: Health Industry Advisor LLC • Source: Centers for Disease Control and Prevention • Created with Datawrapper

Source: Centers for Disease Control and Prevention

Nearly half of all counties reported no admissions for the seven days through April 27; 92% admitted ten or fewer patients

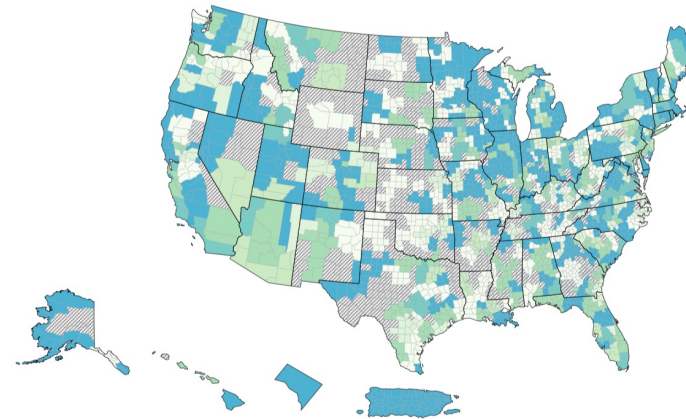
New admissions of confirmed COVID-19 of All Counties in US



0 1 to 10 11 to 20 21 to 50 51 to 150 151 to 1,000 1,001+ No Data

Sat Apr 30 2022 04:35:22 GMT-0400

% Change in new admissions of confirmed COVID-19 from previous 7 days of All Counties in US

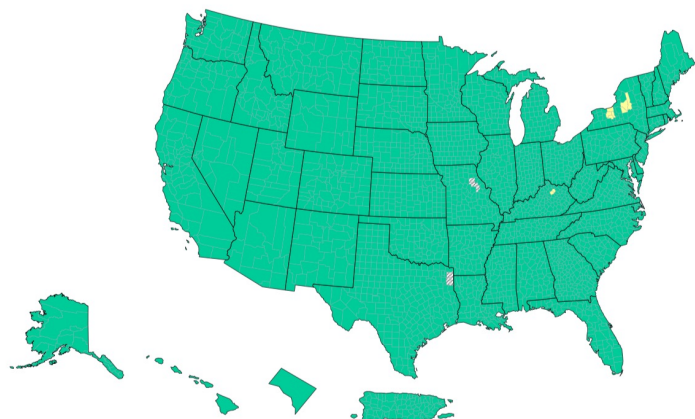


-25.01% or less -25% - -10.01% -10% - -0.01% 0% - 10% 10.01% - 25% 25.01% or more No Data

Sat Apr 30 2022 04:35:22 GMT-0400

Covid patients occupy less than 10% of inpatient beds in nearly every county in the United States. Only eight New York counties exceed 10% of bed capacity for Covid patients

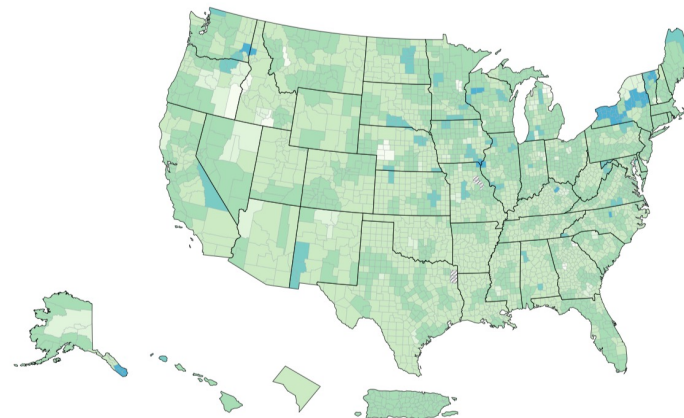
% Staffed inpatient beds in use by patients with confirmed COVID-19, last 7 days of All Counties in US



● < 10% ● 10.0% - 14.9% ● ≥ 15.0% ■ No Data

Sat Apr 30 2022 04:35:22 GMT-0400

Absolute change, % staffed inpatient beds in use by patients with confirmed COVID-19 from previous 7 days of All Counties in US

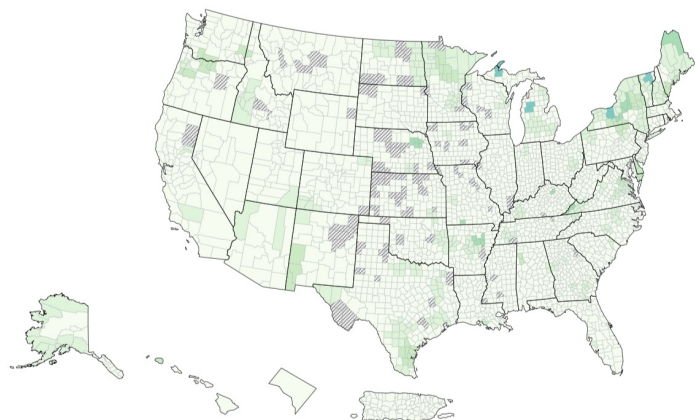


● -2.01% or less ● -2% to -1.01% ● -1% to 0% ● +0.01 -to +1% ● +1.01% to +2%  
● +2.01% or more ■ No Data

Sat Apr 30 2022 04:35:22 GMT-0400

Covid patients occupy relatively few ICU beds: In 84% of counties, these patients occupy less than 3% of ICU beds ; in 96% of all counties, these patients occupy less than 7% of ICU beds

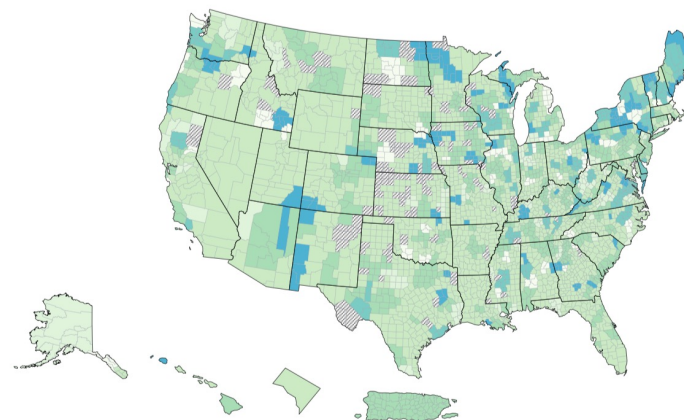
% Staffed ICU beds in use by patients with confirmed COVID-19, last 7 days of All Counties in US



0% - 3% 3.01% - 7% 7.01% - 12% 12.01% - 15% 15.01% - 20% 20.01% - 25%  
25.01% - 30% 30.01% or more No Data

Sat Apr 30 2022 04:35:22 GMT-0400

Absolute change, % staffed ICU beds in use by patients with confirmed COVID-19 from previous 7 days of All Counties in US



-2.01% or less -2% to -1.01% -1% - 0% +0.01 - +1% +1.01 - +2%  
+2.01% or more No Data

Sat Apr 30 2022 04:35:22 GMT-0400

Fewer than 300 people died with Covid per day last week - the first time since mid-July this occurred

### Deaths With Coronavirus

7-Day Average, Through April 29

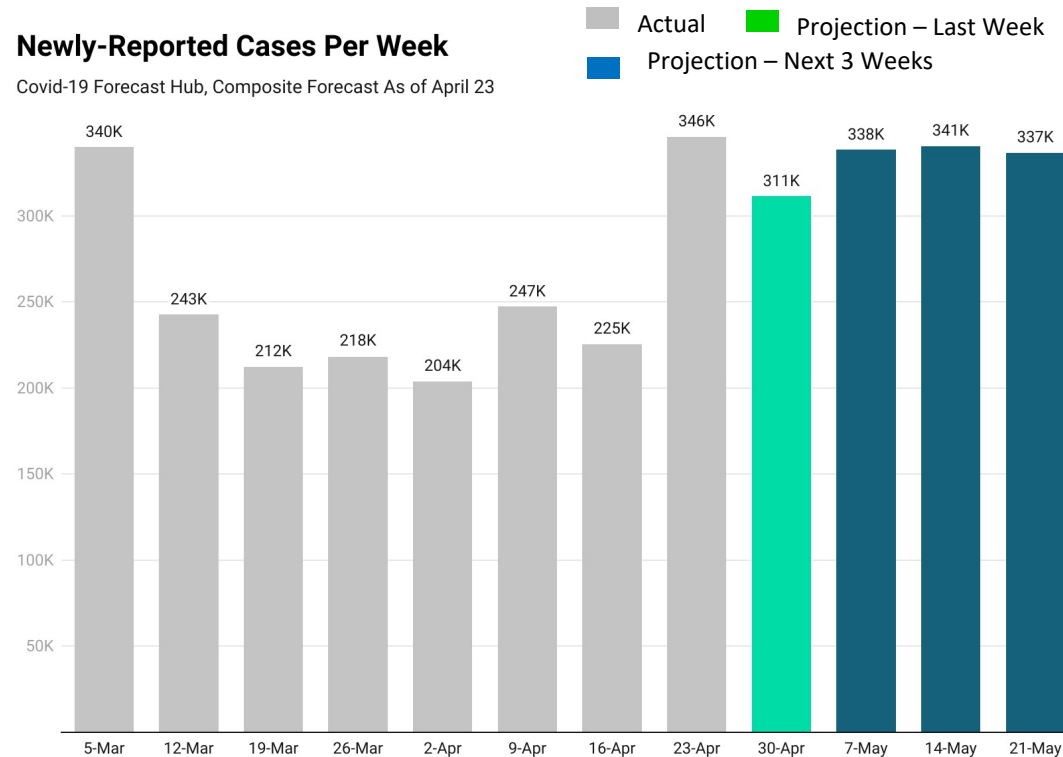


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

An ensemble forecast predicts cases will stabilize but deaths will increase in the next three weeks

### Newly-Reported Cases Per Week

Covid-19 Forecast Hub, Composite Forecast As of April 23

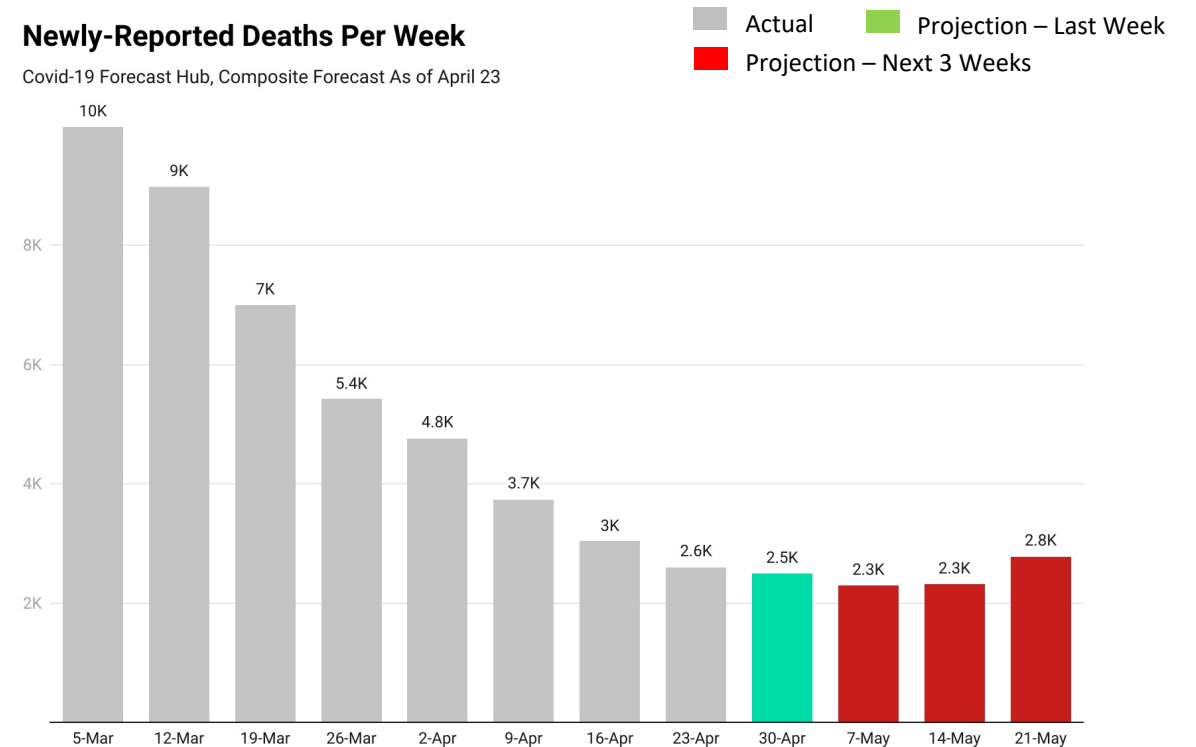


For the week ending on the date shown

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

### Newly-Reported Deaths Per Week

Covid-19 Forecast Hub, Composite Forecast As of April 23



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>
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- Worldometers.info: <https://www.worldometers.info/coronavirus/>
- Yale School of Public Health & Harvard TH Chan School of Public Health, <https://covidestim.or>