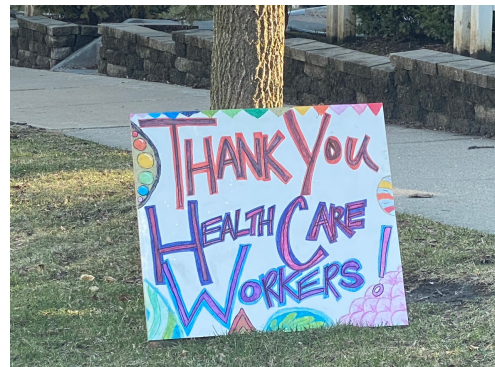
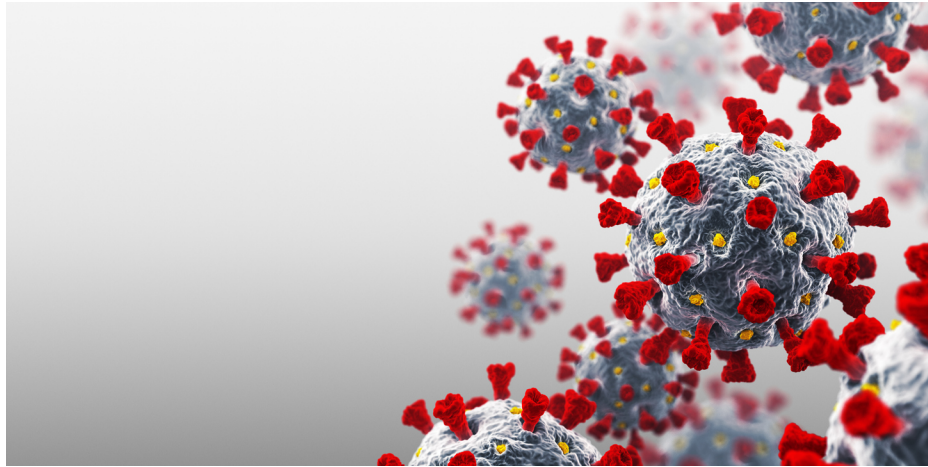
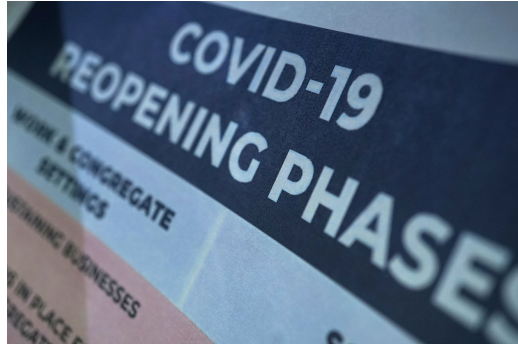




COVID-19 Report

Issue # 128

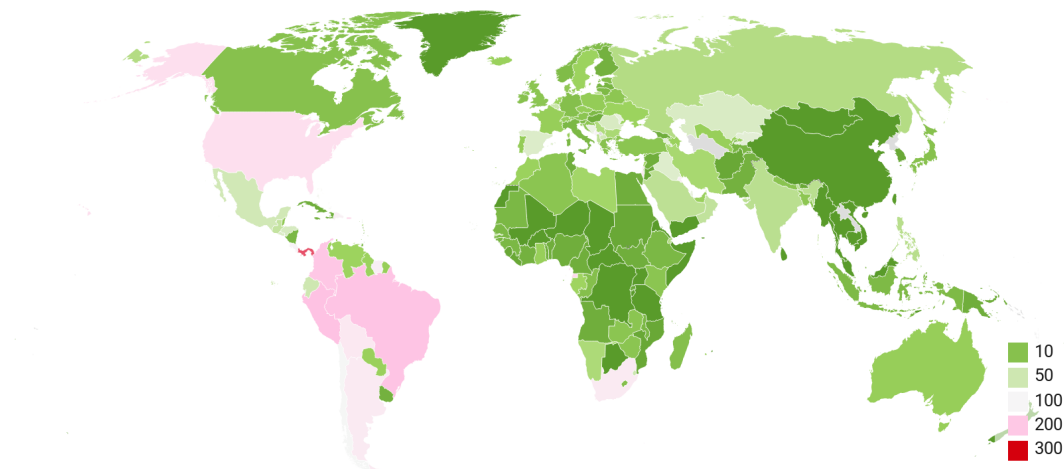
Friday, August 7, 2020

- New cases increased yesterday and were higher than on any of the previous four days. Still, new cases every day this past week were lower than all but one day since July 5. Week-over-week, cases are down 15.6%, and 16.4% over the past two weeks
- The new daily infection rate (trailing 7-day moving average) declined for the 12th consecutive day and now is at its lowest level since July 9th
- The United States now has the 10th highest rate of new daily infections per capita in the world over the past week, down from 5th last week. The Maldives, Panama, Peru and Brazil have the highest rates in the world. Aruba experienced a significant spike this week and ranks 6th; it ranked 130th a week ago
- Encouragingly, no state set a new high for this rate yesterday, as even Hawaii saw a decline. Except for Hawaii, every state is now at least five days past their peak infection rate. Nonetheless, several states are close to peak levels, including Arkansas, Georgia, Hawaii, Indiana, Kansas, Minnesota, Montana, North Dakota and West Virginia
- Testing volumes continue to decline, although the test-positive rate is stable or slightly declining. This relationship is critical - in the past, testing volume and test-positive rates have been inversely related. In effect, as volumes declined, the implicit bias was to test only more-probable cases. This time, however, the lower test-positive rate at lower volumes suggests that true infection rates are more-then-likely declining
- We remain concerned about high test-positive rates in at least thirteen states where they exceeded 10% over the past week. In four of these, Arkansas, Missouri, Nevada and Texas, these rates increased significantly on a week-over-week basis
- Stress on the healthcare system continues to ease: COVID-19 census declined yesterday for the 7th time in 8 days and is down 12% since July 23. Recently hard-hit Arizona, California, Georgia and Texas are included in these declines; Hawaii, Montana and Nebraska are the most notable exceptions to this decline
- ICU patient census has declined since July 29 and, as a percent of all COVID-19 patients, also declined in recent days; Ventilator patients as a % of all COVID patients has been stable for the past two weeks
- ER visits for COVID-19 illnesses (on a % basis) declined again yesterday, continuing a trend that began in early July; this % is now back to early June levels

Brazil, Maldives, Panama and Peru have highest current rate of new infections*; Aruba has been hit hard recently. United States, French Guiana, Israel and South Africa among countries seeing declining rates

New Daily Infections / 1 Million Population

Trailing 7-Day Moving Average, As of August 6



Health Industry Advisor LLC analysis

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

New Daily Infections / Million Population

Trailing 7-Day Moving Average

As of July 23 As of July 30 As of August 6

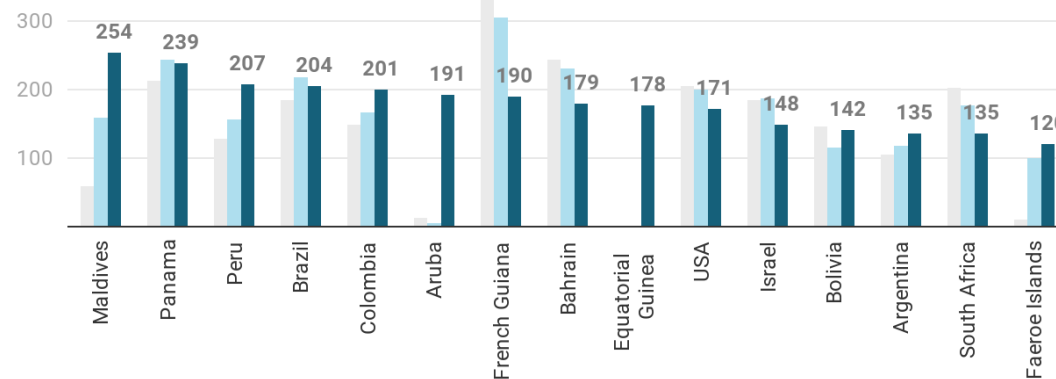


Chart: Health IndustryAdvisor LLC • Created with Datawrapper

* - per million per day, trailing 7-day moving average

More new cases on Thursday than any of previous 4 days; On a week-over-week basis, however, new cases are down 15.6%

New Cases

Through August 6

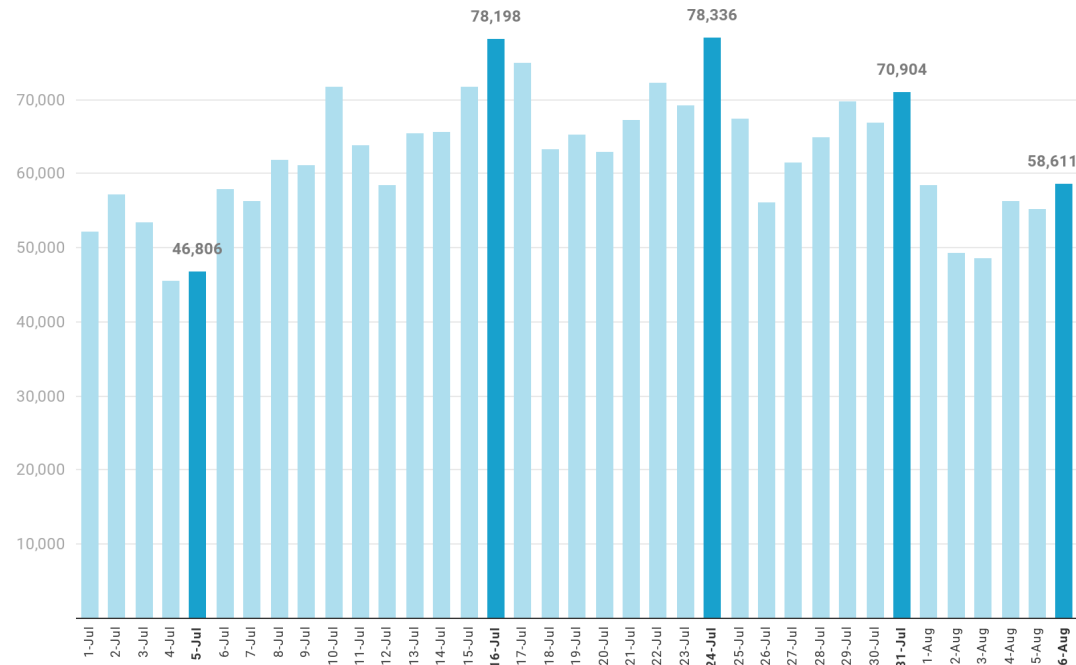
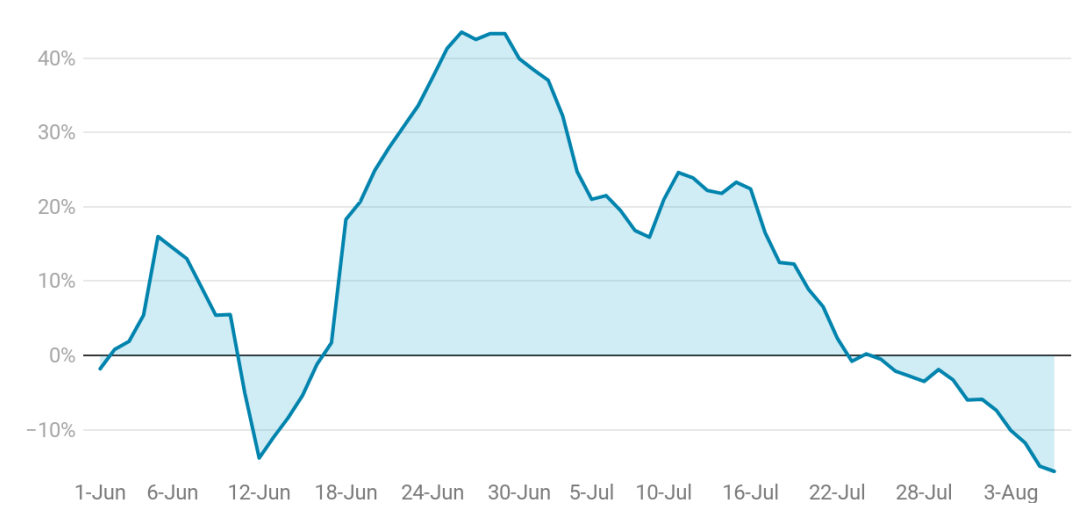


Chart: Health Industry Advisor LLC • Source: eorlometers.info • Created with Datawrapper

Week-Over-Week Change In New Cases

Through August 6



Health Industry Advisor LLC analysis

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

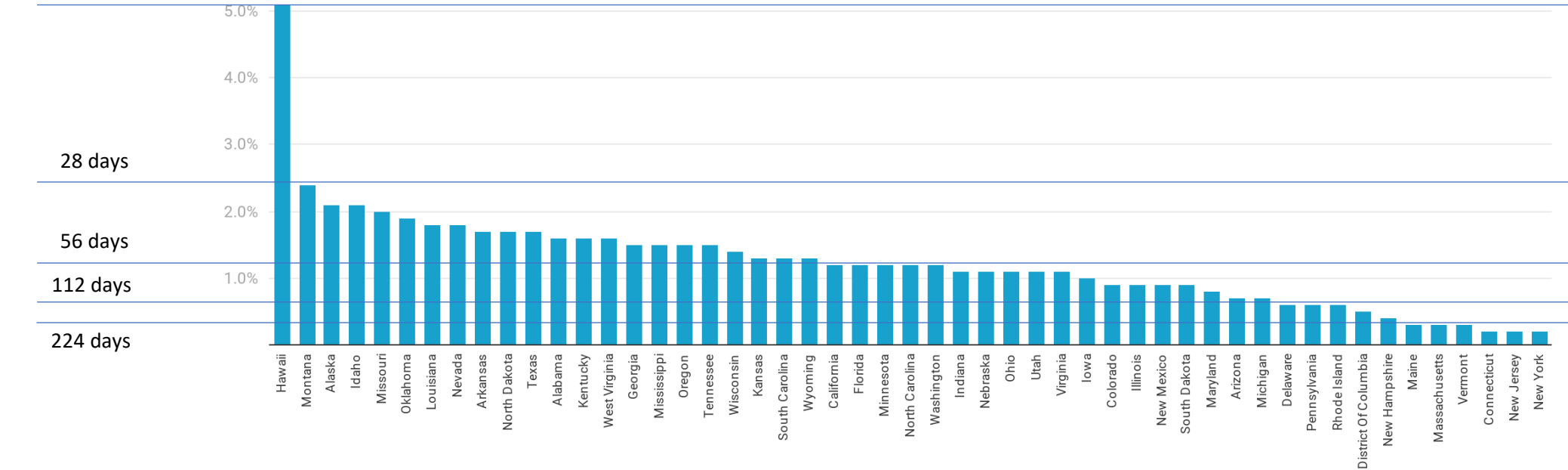
State-By-State

Case growth is slowing but, Hawaii remains a concern here. At current rates, cases are doubling every 14 days in Hawaii; every 408 days in New York; 63 for the United States overall

Growth Rate in Total Cases

Trailing 5-Day Moving Average, Through August 6

14 days to double



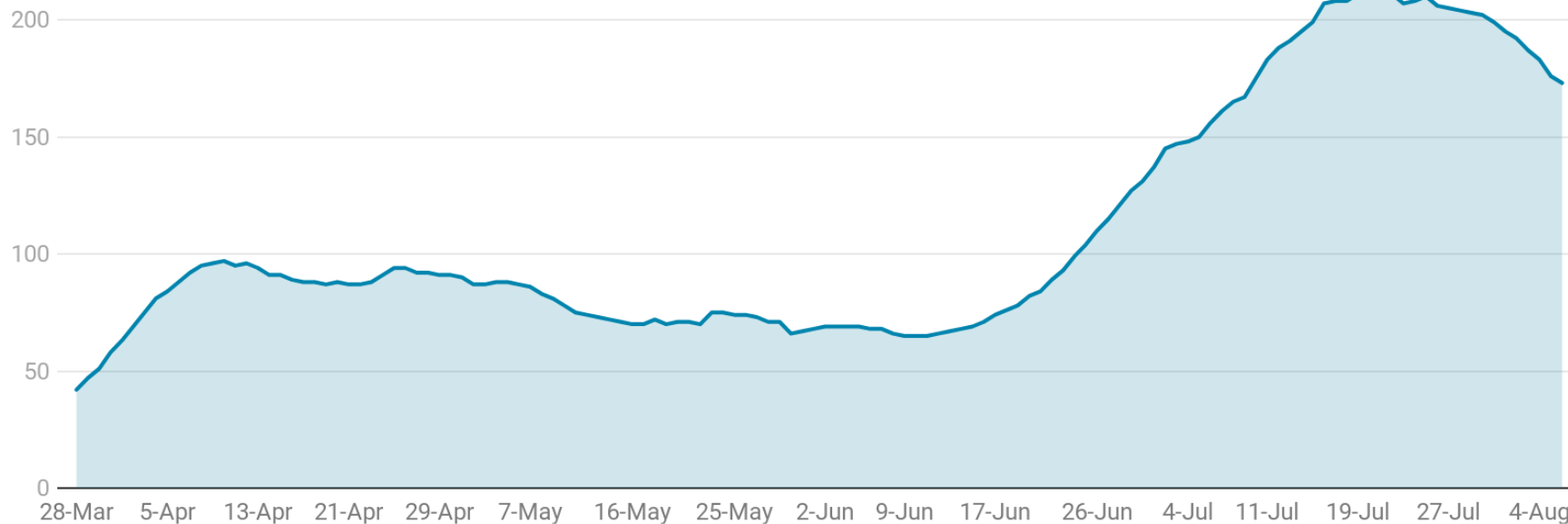
Health Industry Advisor LLC analysis

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

New infections per capita* declined for the 12th consecutive day on Thursday; At its lowest level since July 9th

New Infections Per 1 Million Population - United States

Trailing 7-Day Moving Average, Through August 6



Health Industry Advisor LLC analysis

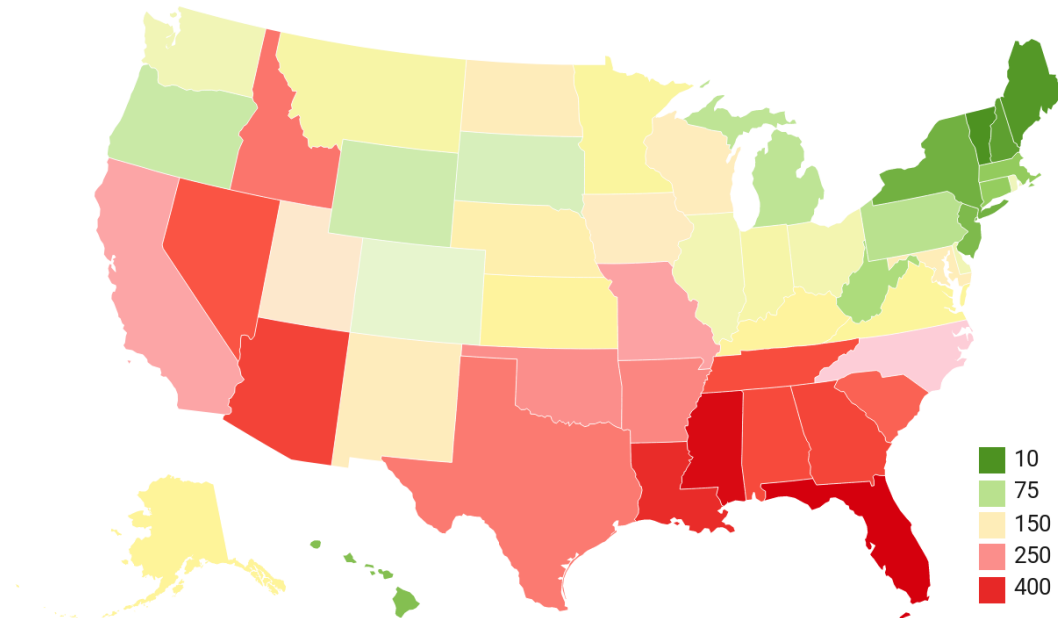
Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

* - per million per day, trailing 7-day moving average

While new daily infection rates* remain high, especially in the South and West, there is evidence of week-over-week improvement in many states

New Daily Infections Per 1 Million Population

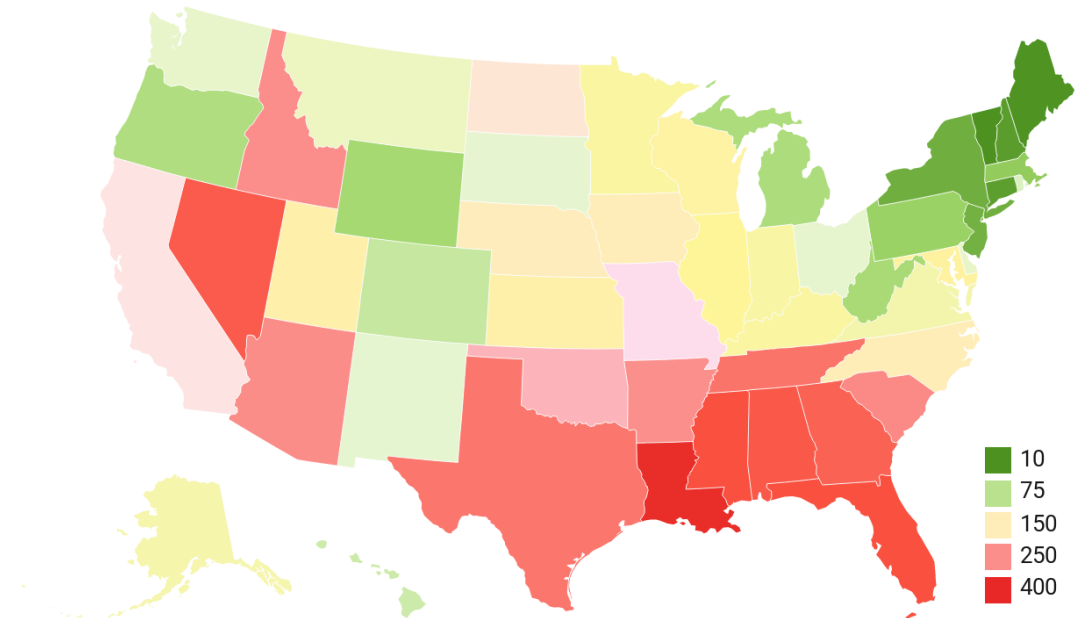
Trailing 7-Day Moving Average, As of July 30



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

New Daily Infections Per 1 Million Population

Trailing 7-Day Moving Average, As of August 6



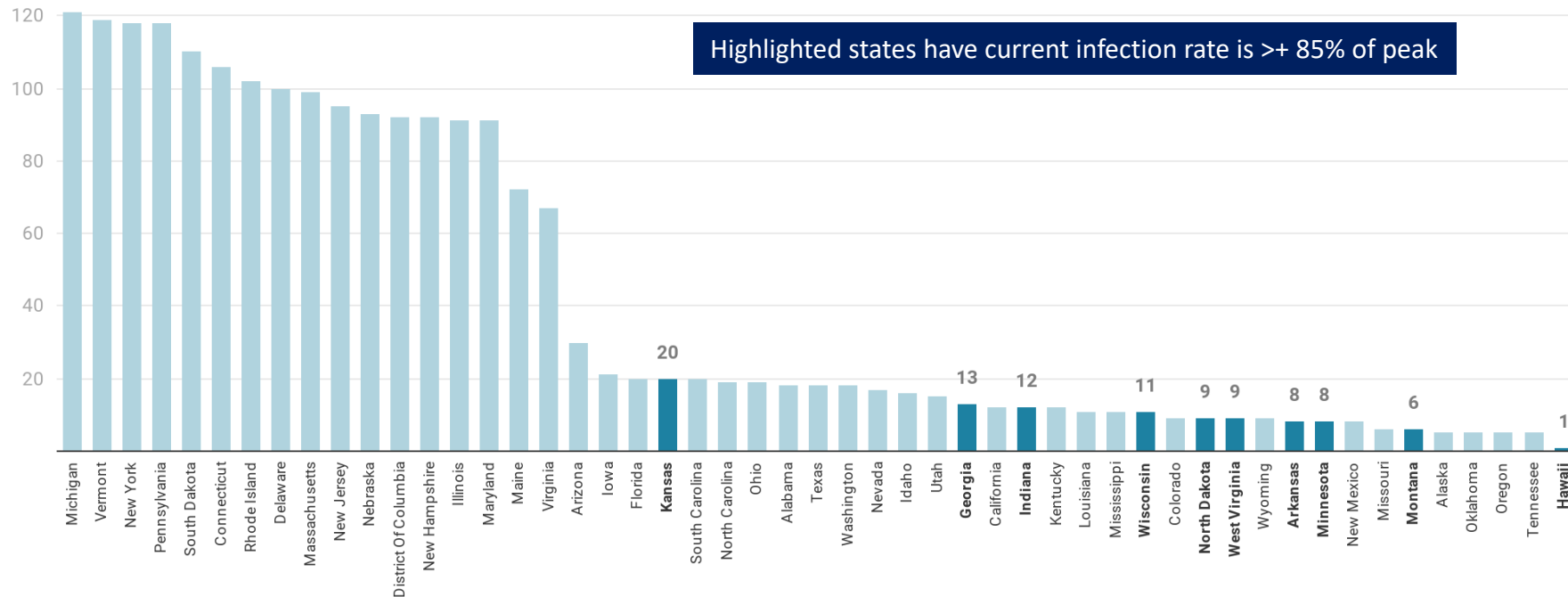
Map: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

* - per million per day, trailing 7-day moving average

No state experienced their highest new infection rate yesterday; ten states, however, are within reach of their peak rate

Days Since Peak New Infection Rate

Trailing 7-Day Moving Average, As of August 6

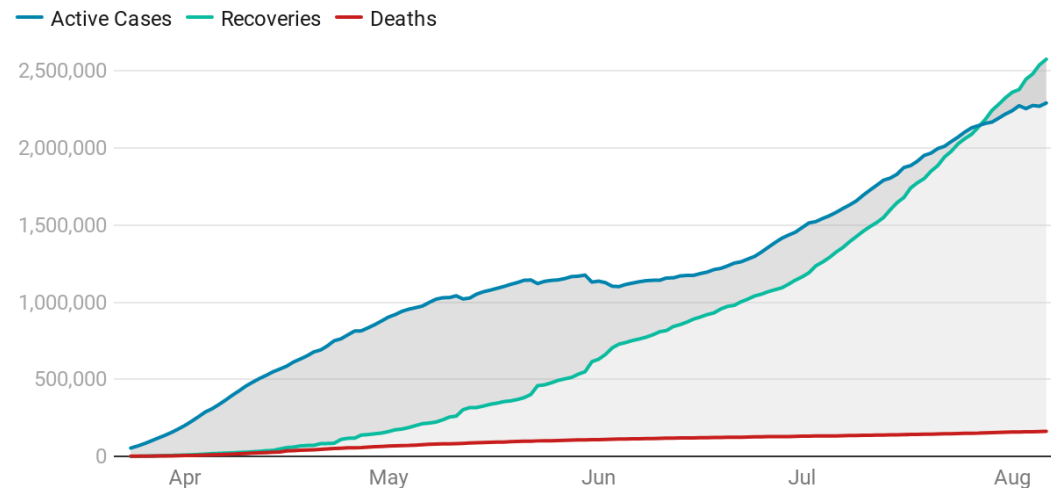


Health Industry Advisor LLC analysis

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

Active Cases v. Recoveries & Deaths

Through August 6

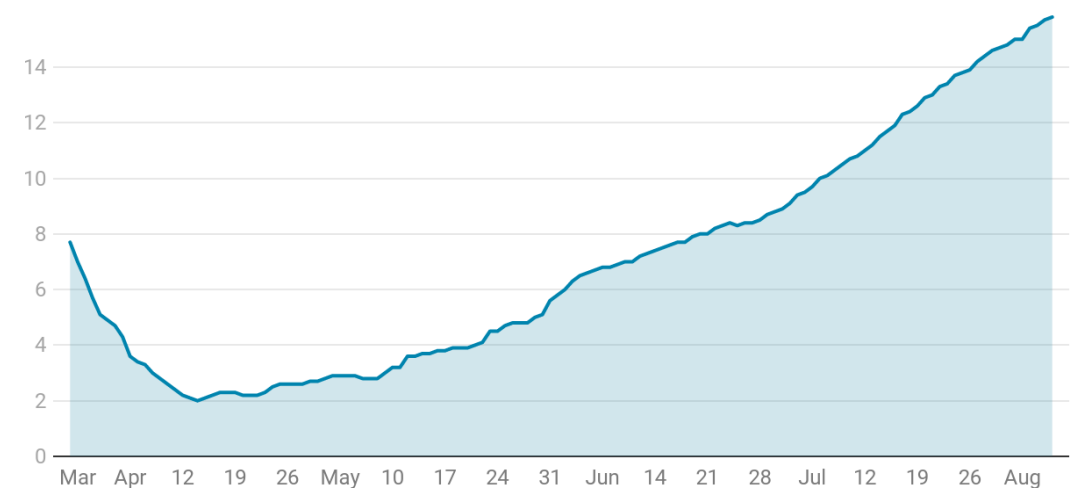


Health Industry Advisor LLC analysis

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

Recoveries: Deaths - United States

As of August 6



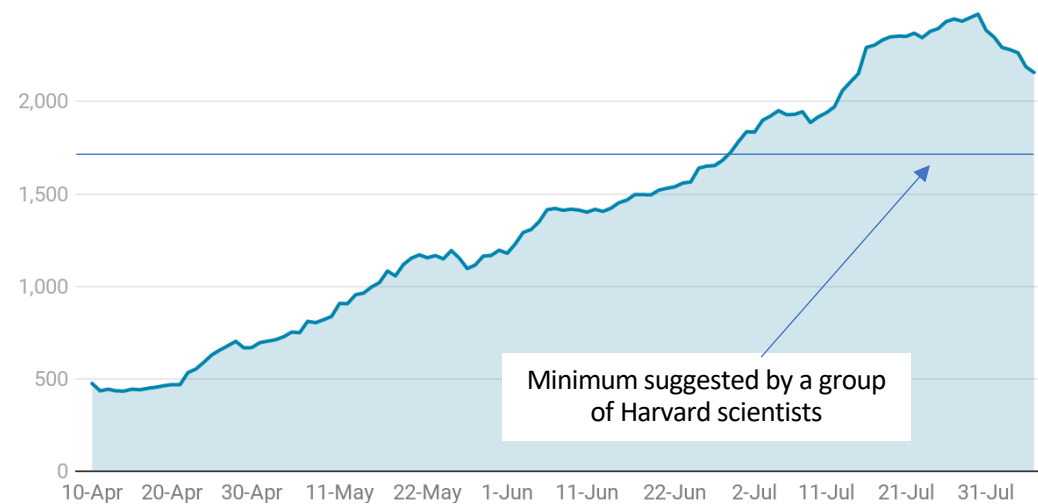
Health Industry Advisor LLC analysis

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

Test volume trending downward; Test-positive rate, however, is stable or declining. Previously, test volumes and test-positive rates were inversely-related

Daily Tests Per 1 Million - United States

Trailing 7-Day Moving Average, As of August 6

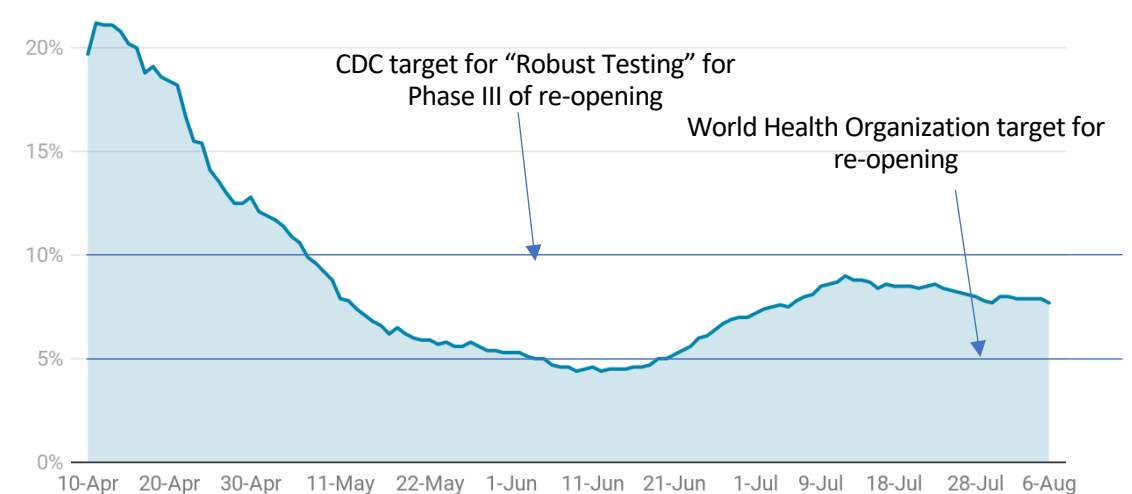


Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

Test-Positive Rate - United States

Trailing 7-Day Moving Average, As of August 6



Health Industry Advisor LLC analysis

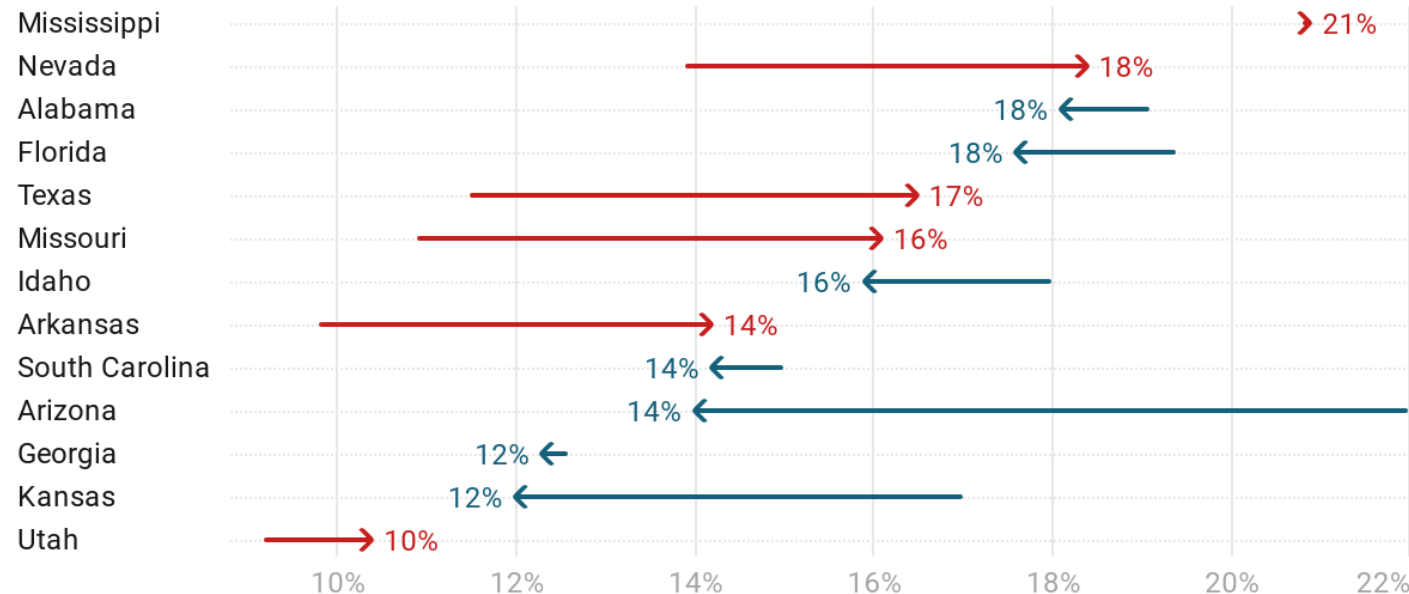
Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

State-By-State

Thirteen states have test-positive rates above the recommended levels for Phase 3 re-opening; Four – Nevada, Texas, Missouri and Arkansas - saw a sharp increase in this rate last week

Test-Positive Rates

Trailing 7-Day Moving Average, July 30 v August 6



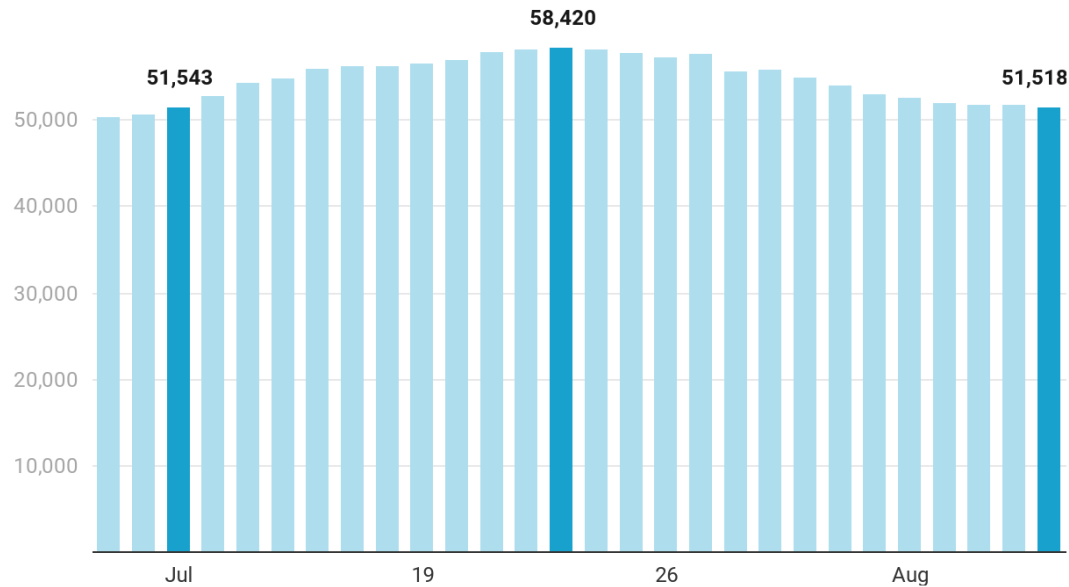
Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

COVID-19 census declined yesterday, the 7th time in the past 8 days;
Census is now down nearly 12% since July 23; Up significantly, however, in
Hawaii, Montana and Nebraska

Hospital Census: COVID-19 Patients

As of August 6

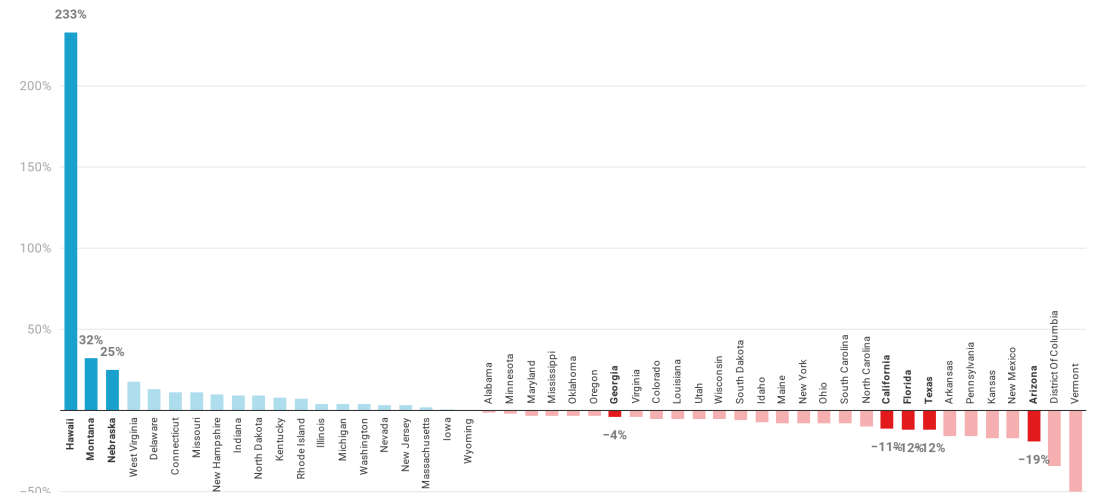


Florida data first available on July 10

Chart: Health Industry Advisor LLC • Source: the Atlantic's Covid Tracking Project • Created with Datawrapper

Week-Over-Week Change COVID-19 Census

Trailing 7-Day Moving Average, August 6 v. July 30



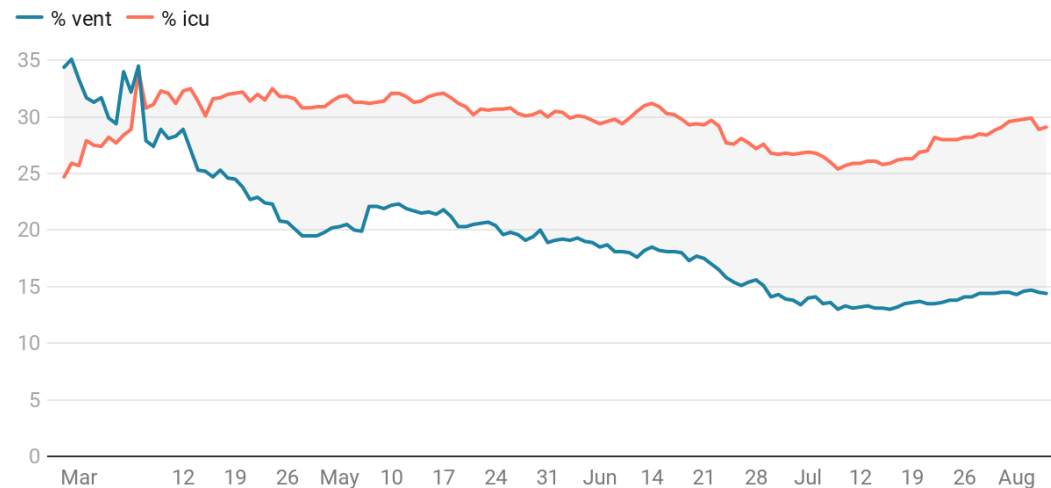
Health Industry Advisor LLC analysis

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

A greater % of patients are in the ICU

Severity of Hospitalized Patients

% of patients on ventilators and in the ICU, As of August 6



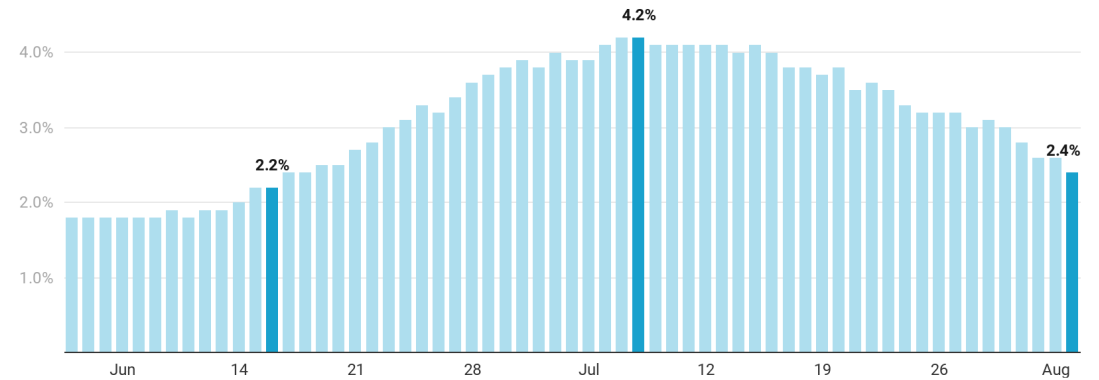
Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

Stress on ERs from COVID-19 cases is diminishing

% of Emergency Department Visits for COVID-Like Illness

As of August 3



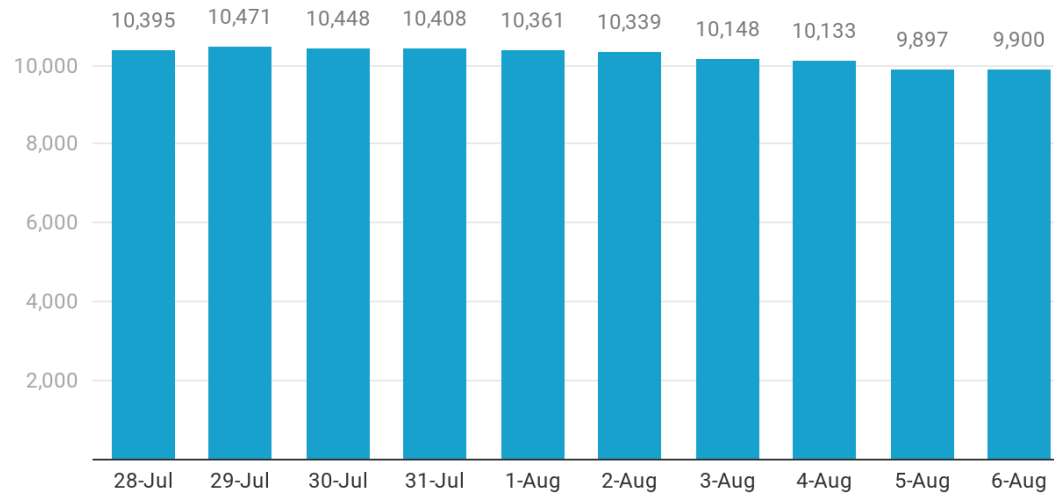
Health Industry Advisor LLC analysis

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

ICU census, for those states that report, has declined by 5.5% since a recent peak on July 29; States with the highest census – Arizona, California and Texas fueled this decline

ICU Census

As of August 6

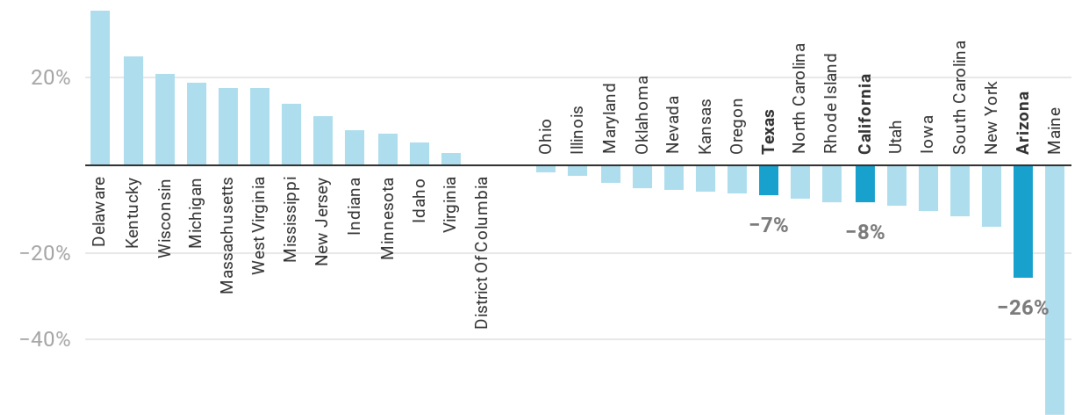


Not all state report these data

Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracing Project • Created with Datawrapper

Change in ICU Census Since July 29

As of August 6



States not shown do not report these data

Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

A slight respite? Fewer deaths each of the past two days; week-over week rate has returned to rate of a week ago. Deaths per case are still declining

Deaths Recorded With Coronavirus in the U.S.

Trailing 7-Day Moving Average, As of August 6



Health Industry Advisor LLC analysis

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

Deaths per Case

As of August 6

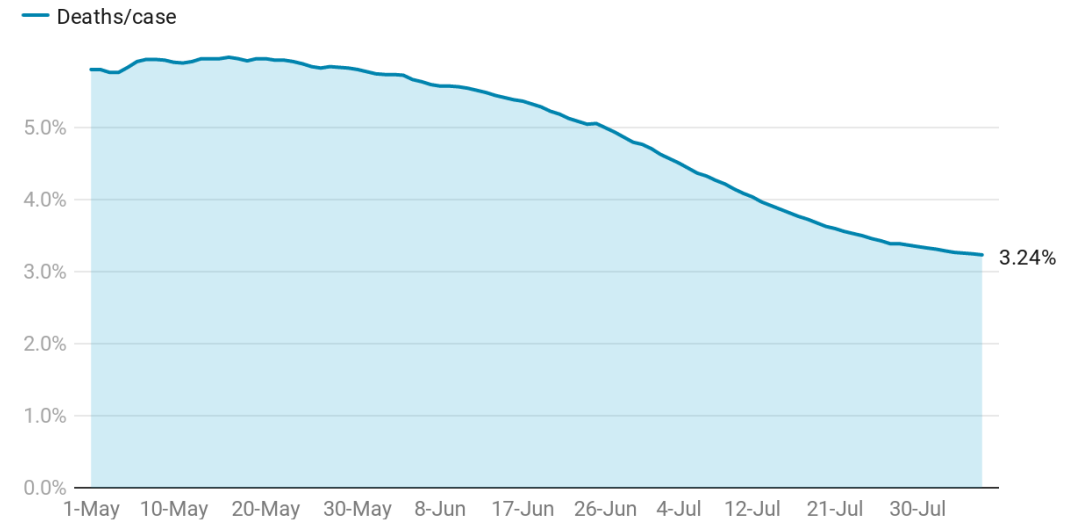


Chart: Health Industry Advisor LLC • Created with Datawrapper

The following data sources are accessed on a daily or weekly basis:

- The Atlantic's Covid Tracking Project: <https://covidtracking.com>
- Worldometers.info: <https://www.worldometers.info/coronavirus/>
- Centers for Disease Control, National, Regional, and State Level Outpatient Illness and Viral Surveillance
<https://gis.cdc.gov/grasp/fluview/fluportaldashboard.html>
- Centers for Disease Control, COVID-19 Laboratory-Confirmed Hospitalizations
https://gis.cdc.gov/grasp/COVIDNet/COVID19_5.html
- Centers for Disease Control, COVID Data Tracker <https://www.cdc.gov/covid-data-tracker/index.html#mobility>
- 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>