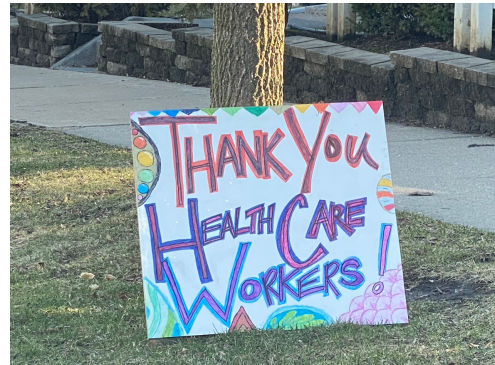
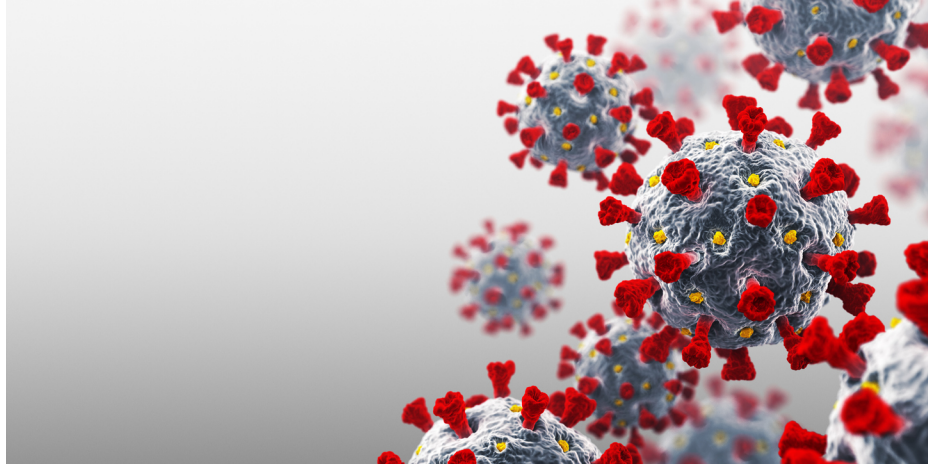
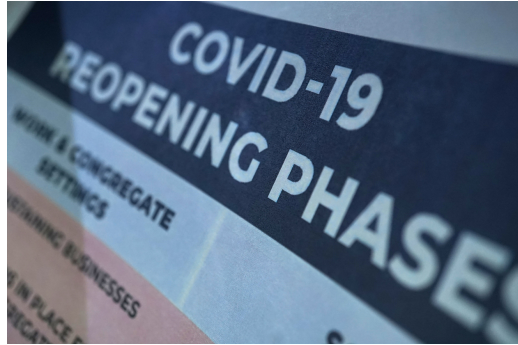




COVID-19 Report

Issue # 146

Wednesday, August 26, 2020

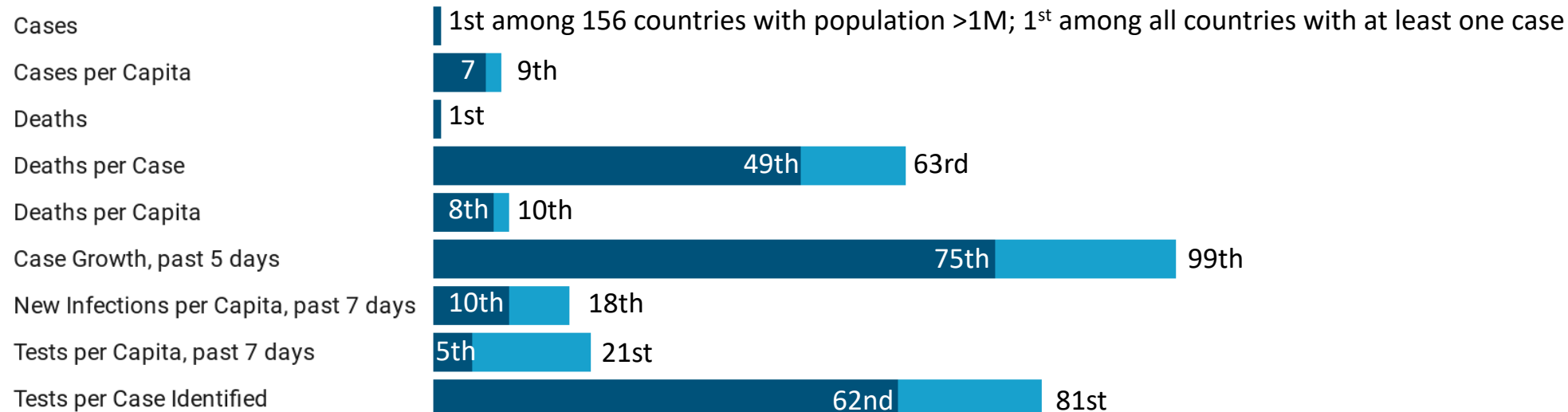
- United States ranking worldwide:
 - As widely-reported, the U.S. has the highest number of reported cases and deaths of any country in the world
 - On a per capita basis, the U.S. ranks:
 - 9th (of 215 countries) in cases (7th among 156 countries with 1M+ population)
 - 10th in deaths (8th)
 - 21st in tests for the most recent 7-day period (5th)
 - 18th in new infections for the most recent 7-day period (10th)
- Worldwide:
 - **Over the most recent 7-day period the islands of Aruba, Maldives, Saint Martin, Sint Maarten and Turks and Caicos experienced the highest rates of new infections per capita**
 - South American countries Argentina, Brazil, Columbia and Peru also are experiencing high infection rates
- New Cases and infection rates in the United States:
 - New cases reported yesterday were lower than on Monday - a break from the pattern of cases increasing each day from Sunday-Thursday
 - **New cases yesterday were the fewest on a Tuesday in 8 weeks**
 - **New cases for the 7-day period through yesterday were down 12.6% from the prior 7-day period.** New cases have not increased on a week-over-week basis in a month
 - **New infections per capita for the most recent 7-day period continued its downward trend that began more than a month ago; this rate is as low as it has been in 8 weeks**
- This infection rate decline has occurred across much of the country:
 - Only 7 states have experienced a peak rate in the past 3 weeks; 15 states have gone at least 60 days since experiencing their peak rate
 - The most recent infection rate is within 10% of its peak in only 8 states; in 12 states, the most recent rate is 1/3 or less than its peak for that state
- Testing
 - **Test volume for the most-recent 7-day period is off by 9% from the prior period** and 12% off its peak; Nonetheless, it remains above the WHO-recommended minimum level (and, as stated above, 5th highest in the world among countries with 1M+ population)
 - The test-positive rate continues improving: for the most recent 7-day period, **the test-positive rate is lower than for any other period since June 18-24, and is nearing the strict WHO standard (5%)**
- Healthcare resource use
 - **Only 1.5% of active cases are currently requiring hospitalization; 3 weeks ago, this was 2.4%**
 - **There are 35% fewer COVID-19 patients in hospitals and ~30% fewer in ICUs than a month ago**
 - **ER visits for COVID-19 illnesses, as a % of all ER visits, have declined by more than 1/2 since early July;** Visits for influenza-like illnesses also have declined during this time
- Deaths with the coronavirus
 - **Daily deaths for the most-recent 7-day period continued to decline - a pattern that began 8 days ago**
 - This daily death average is now as low as it has been since July 20-26

U.S. ranks high in cases, deaths, cases/capita, deaths/capita; lower in deaths/case and case growth rate. Tests/capita is reasonably favorable

United States Ranking

As of August 25

■ 1M+ Pop ■ All



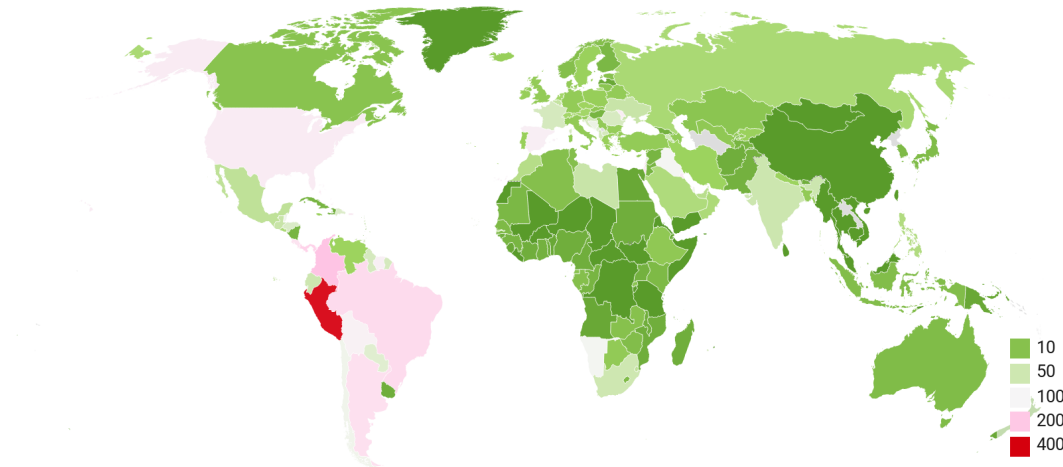
156 Countries with 1M+ Population; All: 215 countries with at least 1 case

Created with Datawrapper

The islands of Aruba, Maldives, Saint Martin, Sint Maarten and Turks and Caicos lead the world in current New Daily Infection Rates
South American countries Argentina, Brazil, Colombia and Peru are high in these rankings

New Daily Infections / 1 Million Population

Trailing 7-Day Moving Average, As of August 25

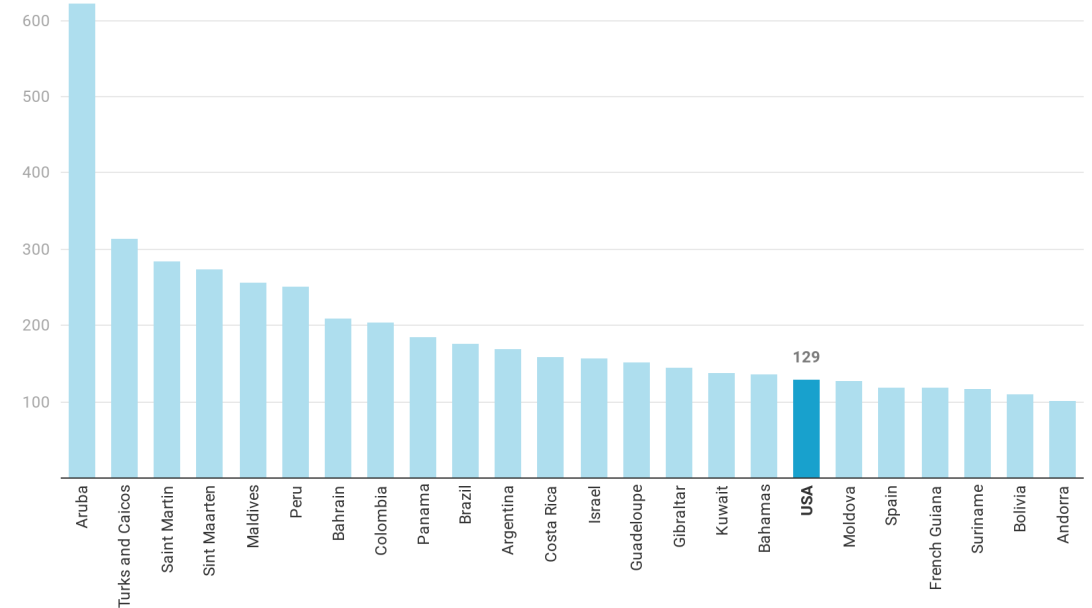


Health Industry Advisor LLC analysis

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

New Daily Infections / Million Population

Trailing 7-Day Moving Average, As of August 25



Health Industry Advisor LLC analysis

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

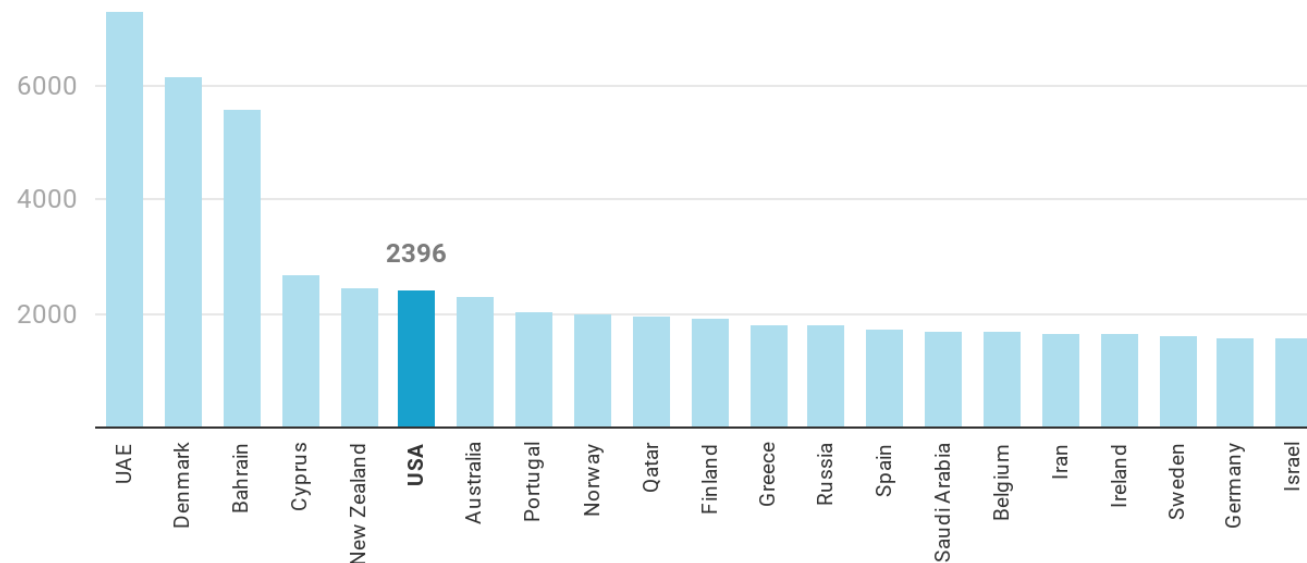
* - per million per day, trailing 7-day moving average

156 Countries With 1M+ Residents

United States ranks 5th overall and is among twenty countries currently testing above the minimum suggested level current testing rate

Daily Tests Per 1 Million Population

Trailing 7-Day Moving Average, As of August 25



Among 156 Countries With 1M+ Population

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

156 Countries With 1M+ Residents

United States ranks 49th in deaths per case; in deaths per capita, U.S. ranks 8th

Deaths/ Case

As of August 25

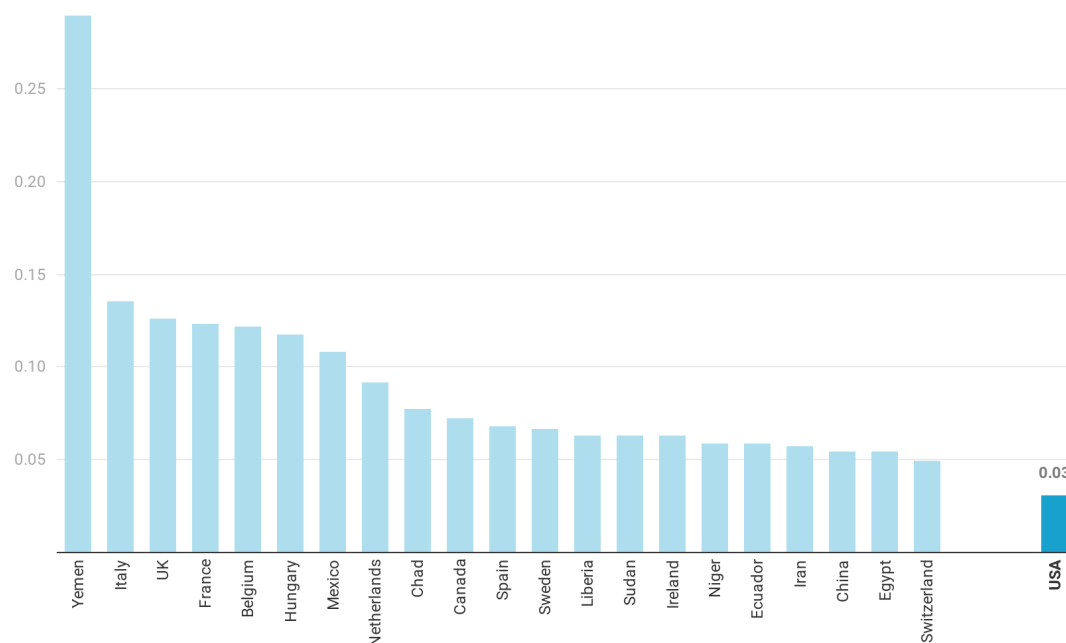
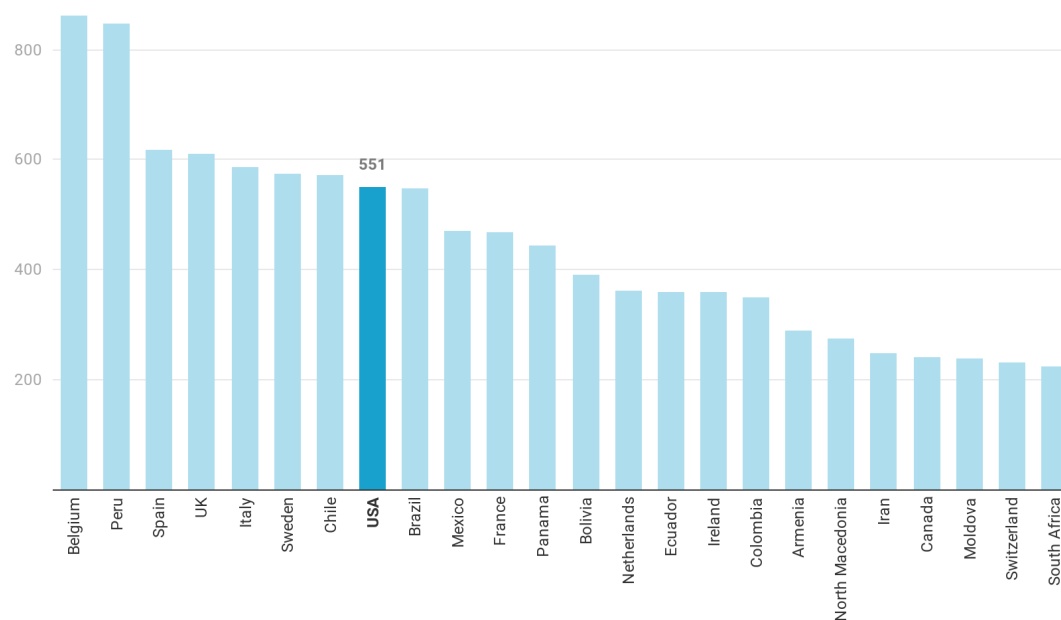


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Deaths/ Million Population

As of August 25



Among 156 countries with 1M+ residents

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

Tuesday's Experience— New Cases & Deaths

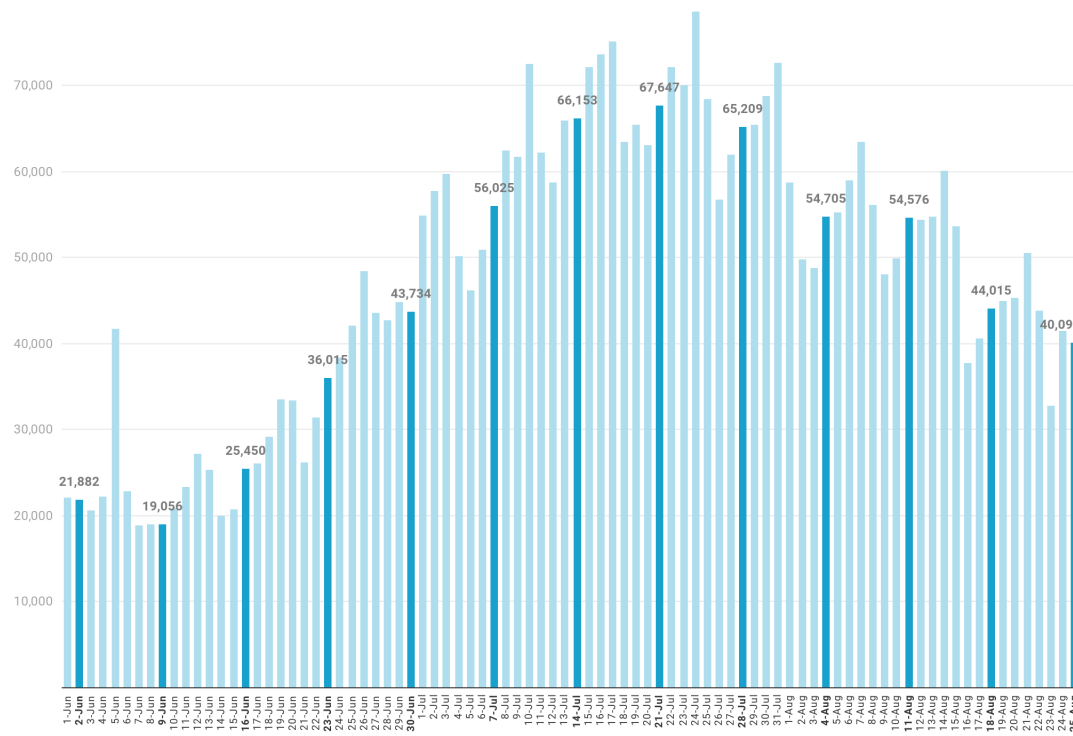
There were fewer new cases yesterday than on any Tuesday in 8 weeks

Deaths were up significantly from Monday yet (typical day-of-week pattern); were the fewest on a Tuesday in 4 weeks

New Daily Cases

Through August 25

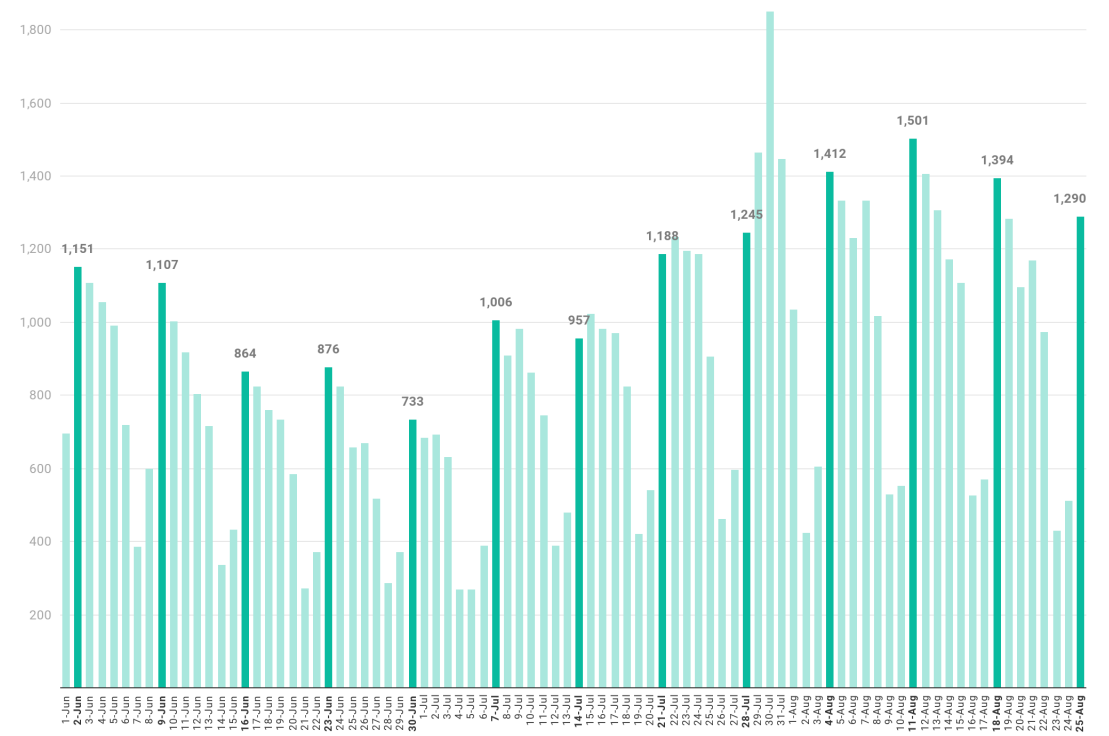
Tuesdays Highlighted



New Deaths

Through August 25

Tuesdays Highlighted

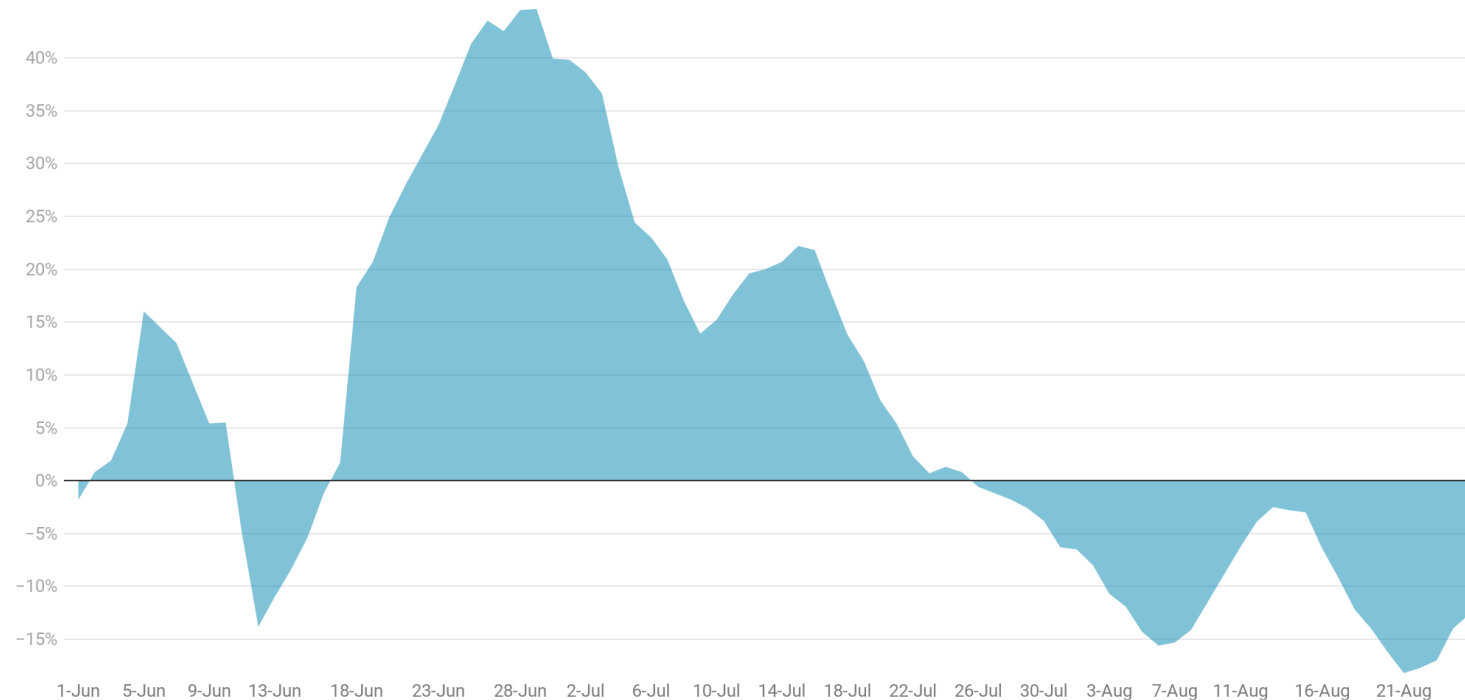


Note the daily pattern: new cases are typically low on Sunday, then increase each day through the week. While we have been noting this for the past few weeks, researchers from MIT, Boston University and Harvard Medical School confirmed this in [a report published by CIDRAP on August 17](#)

Week-over-week, new cases are down 12.6%; new cases haven't increased week-over-week since July 25

Week-Over-Week Change In New Cases

Through August 25

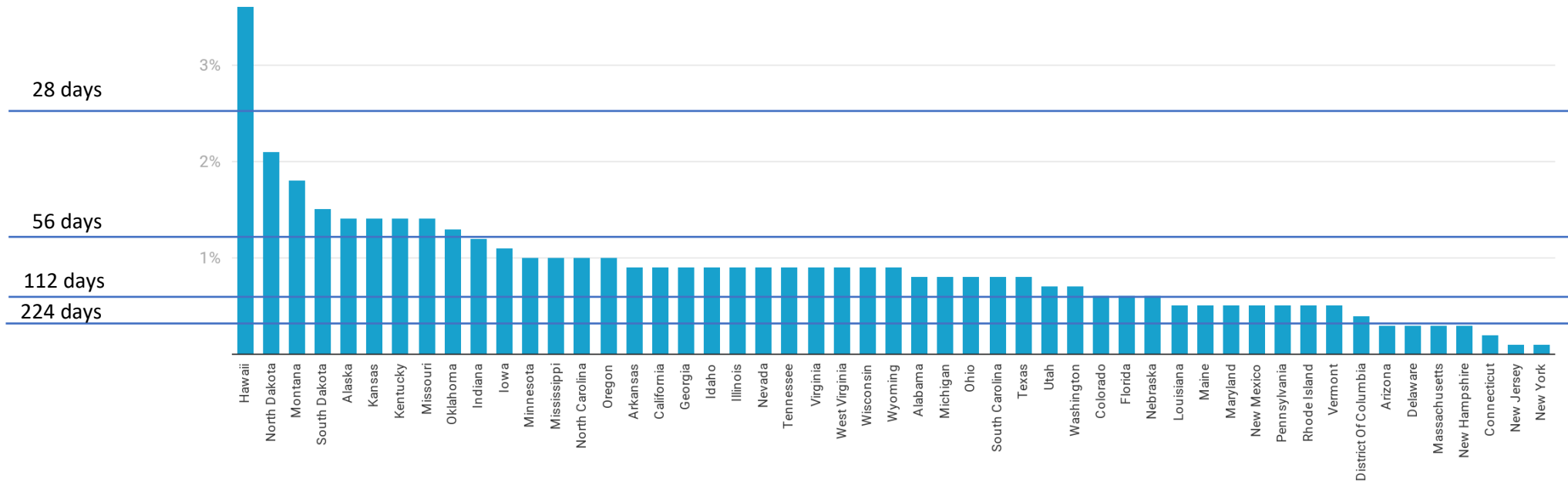


Health Industry Advisor LLC analysis

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

Growth Rate in Total Cases

Trailing 5-Day Moving Average, Through August 25



Health Industry Advisor LLC analysis

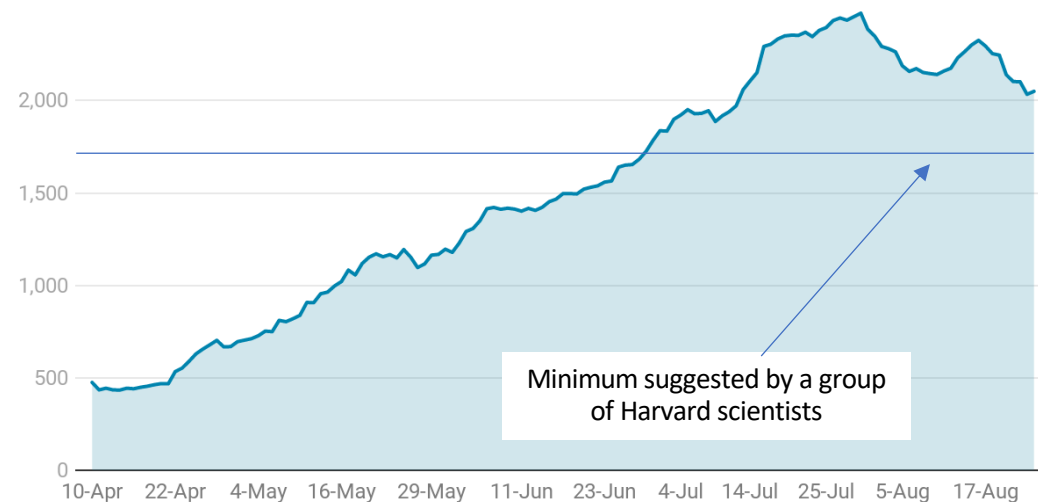
Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Testing volume dropped yesterday and is down 9% week-over-week
 Test-positive rate for the past 7 days, however, was as low as its been since June 18-24;
 Is nearing WHO-recommended target

Testing refers to tests for active infection, as reported via state health agencies; does not reflect antibody testing for prior infection

Daily Tests Per 1 Million - United States

Trailing 7-Day Moving Average, As of August 25

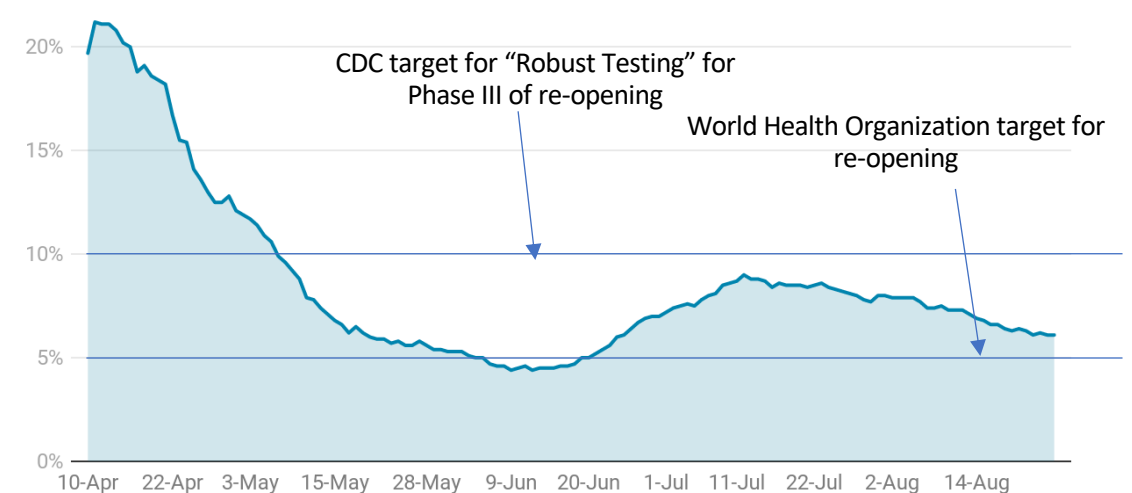


Health Industry Advisor LLC analysis

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 25



Health Industry Advisor LLC analysis

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

Note: On August 11, North Carolina made a significant adjustment, removing 220,000 tests from their YTD totals. We manually removed this negative adjustment from the August 11 data to better reflect actual testing for that date

Note: Due to a computer glitch, Washington has only reported positive results since August 1. Therefore, test-positive rates from that point forward are slightly overstated by ~0.1%

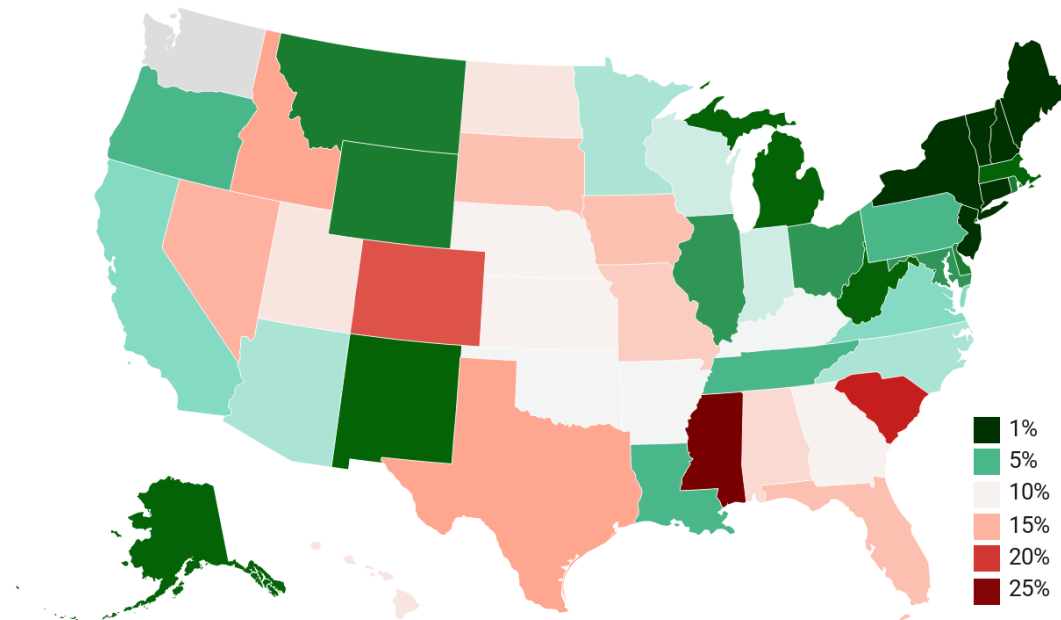
State-By-State

Twelve states have test-positive rates above the CDC-target (10%) for Phase III re-opening; Twenty states have rates $\leq$ the stricter WHO target (5%)
Of those with high rates, Colorado and South Carolina also saw the largest rate increases over the prior week

Testing refers to tests for active infection, as reported via state health agencies; does not reflect antibody testing for prior infection

Test-Positive Rate

Trailing 7-Day Moving Average, As of August 25



Health Industry Advisor LLC analysis

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

Week-Over-Week Change in Test-Positive Rate

Trailing 7-Day Moving Average, As of August 25 v August 18

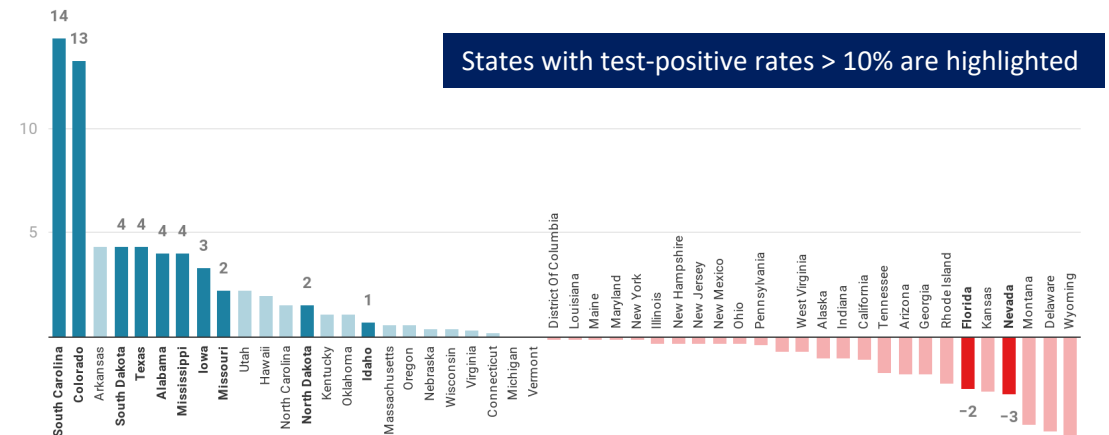


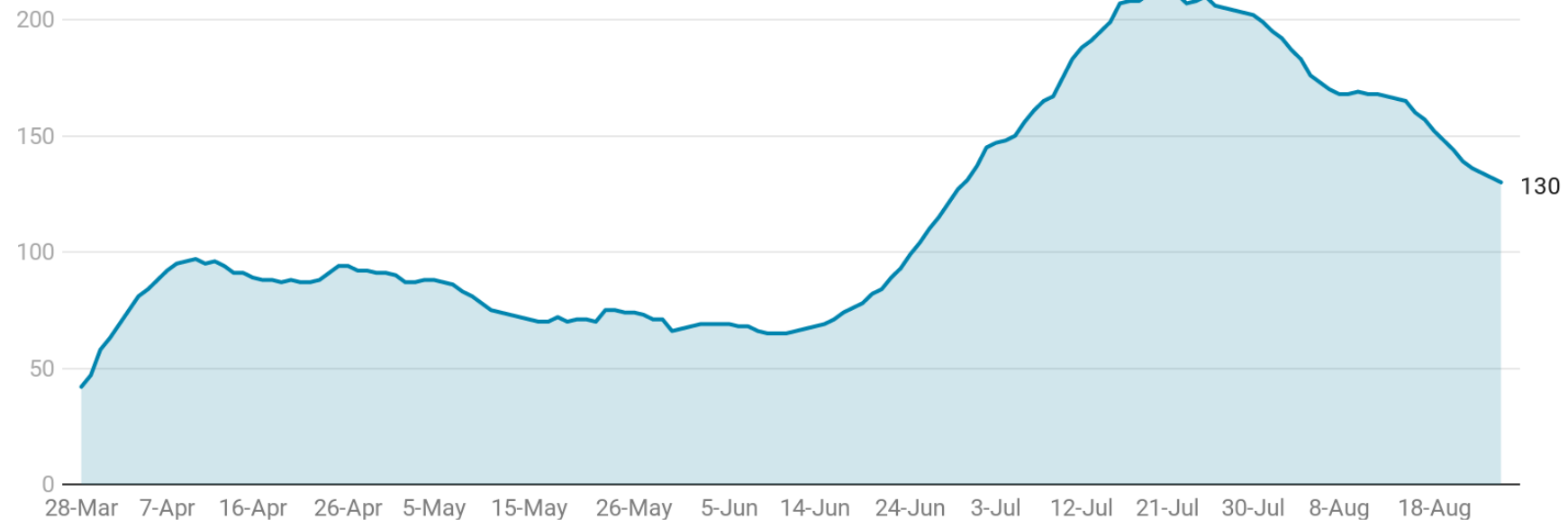
Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Projects • Created with Datawrapper

Note: Due to a computer glitch, Washington has only reported positive results since August 1.

New infections per capita* has steadily declined since its peak during the third week of July; Now at its lowest point in 8 weeks

New Infections Per 1 Million Population - United States

Trailing 7-Day Moving Average, Through August 25



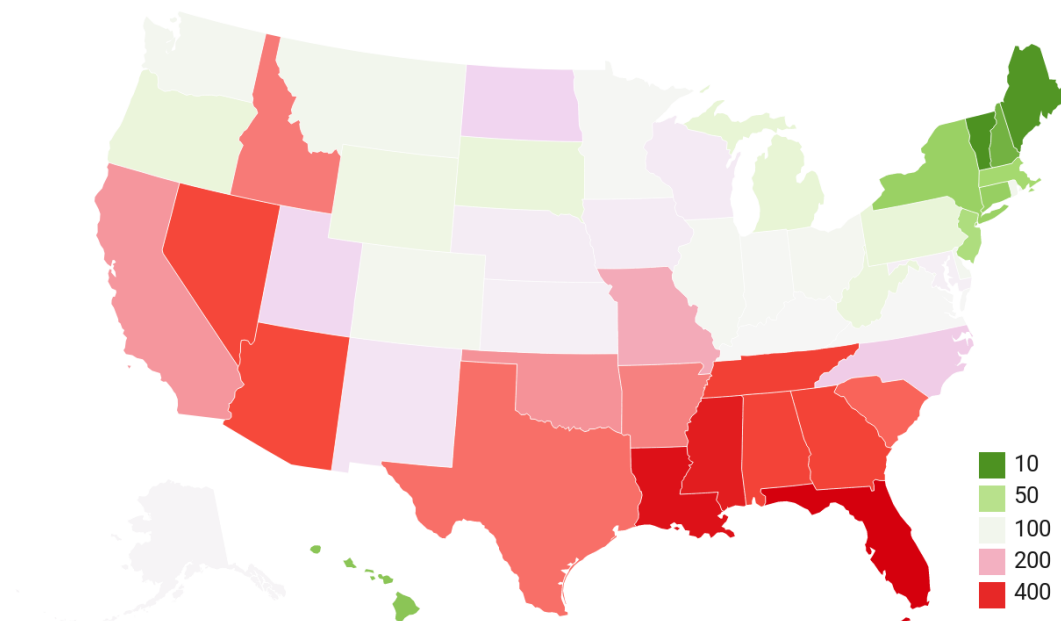
Health Industry Advisor LLC analysis

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

ng average

New Daily Infections Per 1 Million Population

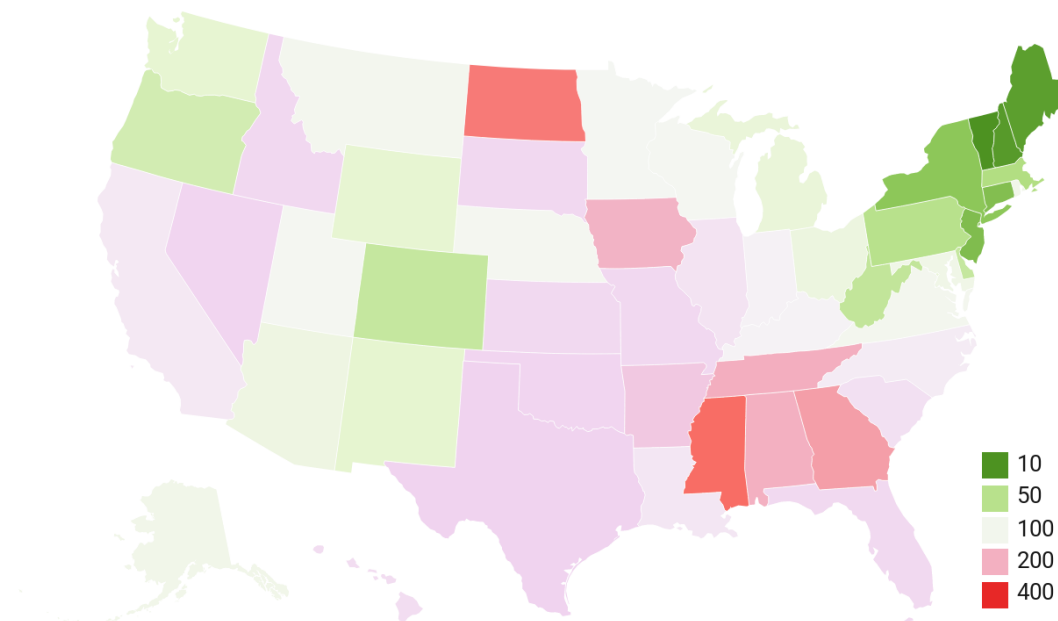
Trailing 7-Day Moving Average, As of July 28



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 25



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

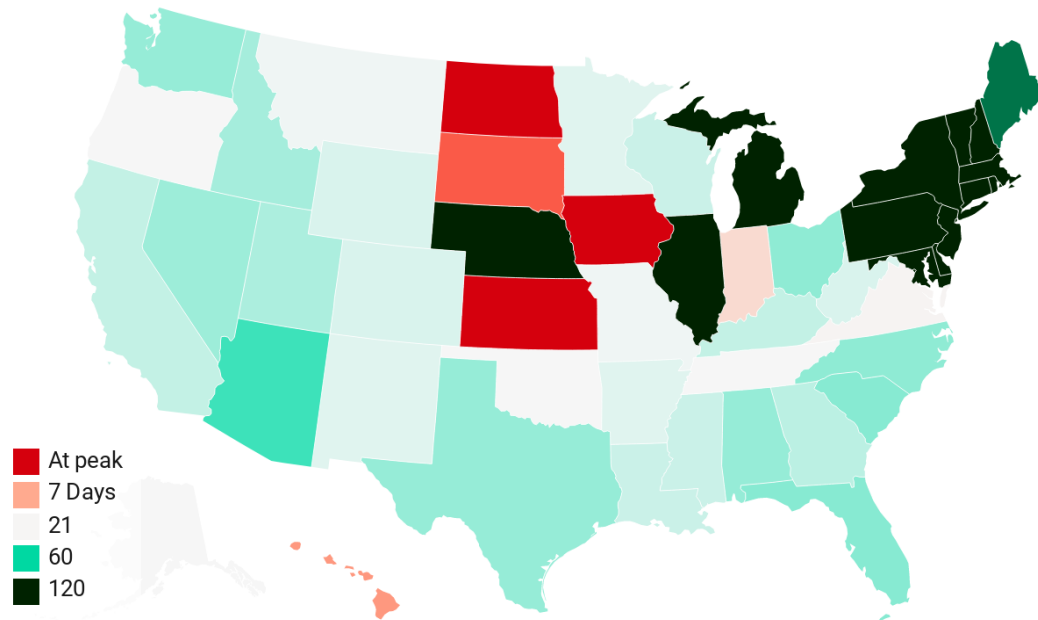
United States

Only 7 states experienced their peak infection rate in the past 3 weeks; 15 states have gone more than 60 days since setting their peak rate

Only 8 states are within 10% of their peak rate; 12 states are have seen their rates drop by at least 2/3 from peak levels

Days Since Peak New Infections Per Capita

Trailing 7-Day Moving Average, As of August 25



New Daily Infections / Million - Current Rate as % of Peak

Trailing 7-Day Moving Average, As of August 25

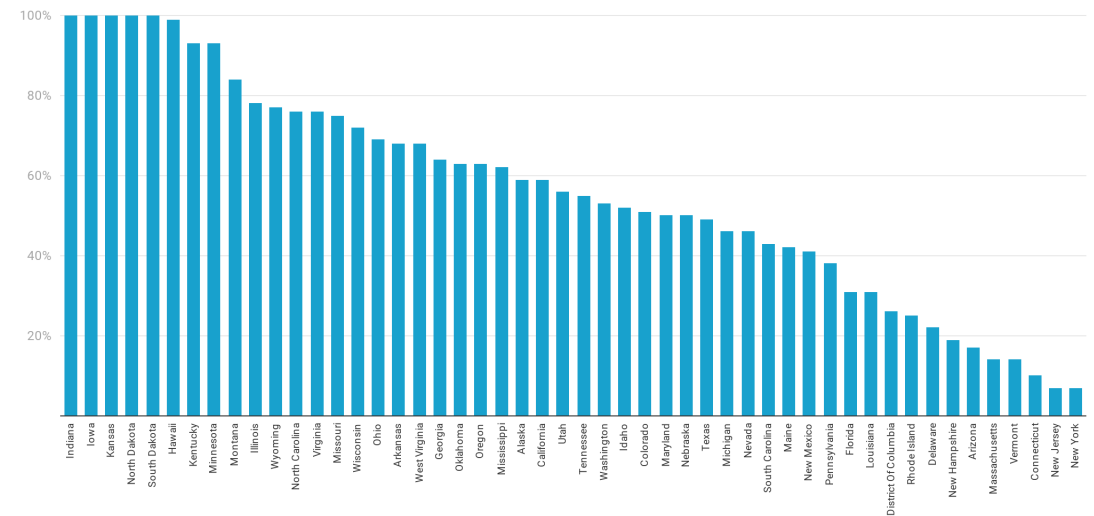


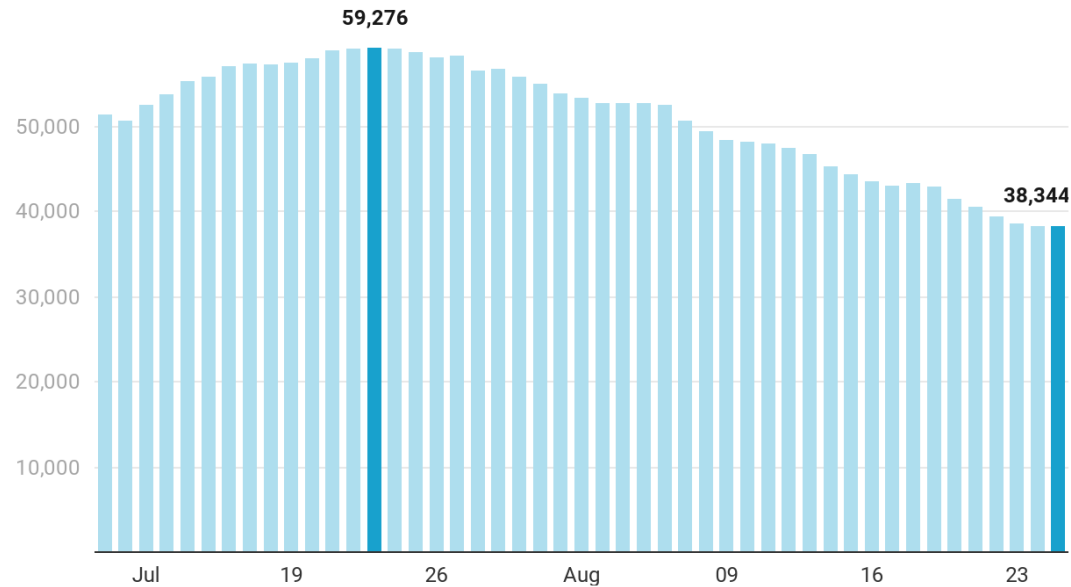
Chart: Health Industry Advisor LLC • Created with Datawrapper

Health Industry Advisor LLC analysis

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

Hospital Census: COVID-19 Patients

As of August 25

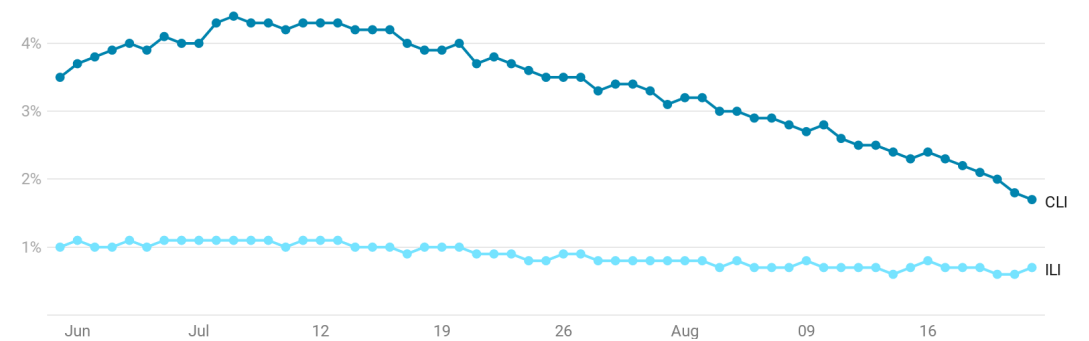


Florida data first available on July 10

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

% of Emergency Department Visits for COVID-Like Illness (CLI) and Influenza-Like Illness (ILI)

As of August 22

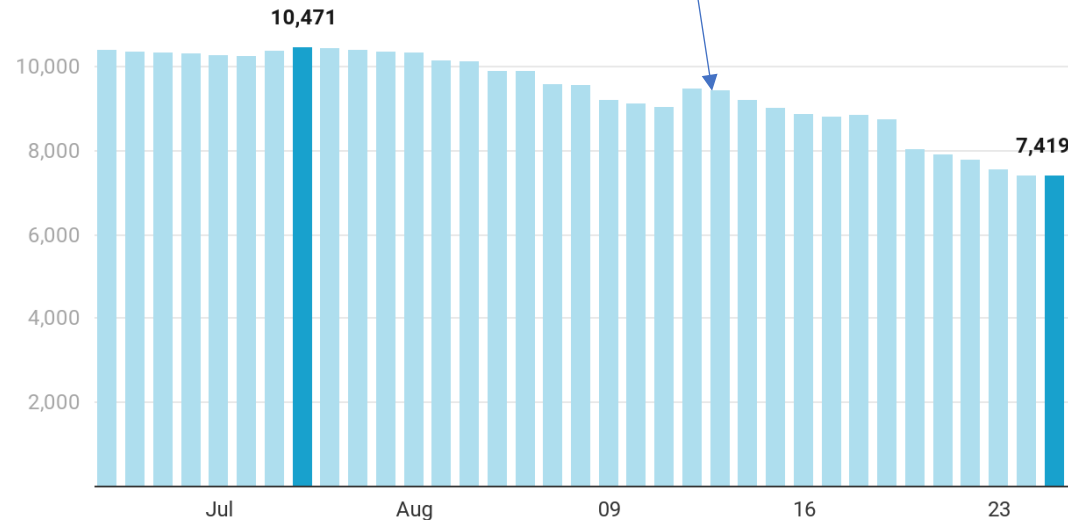


Health Industry Advisor LLC analysis

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

Stress on ICU beds and ventilators continues to ease: Daily ICU census has declined since mid-July % of inpatients in the ICU or on ventilators are both decreasing

COVID-19 ICU Census

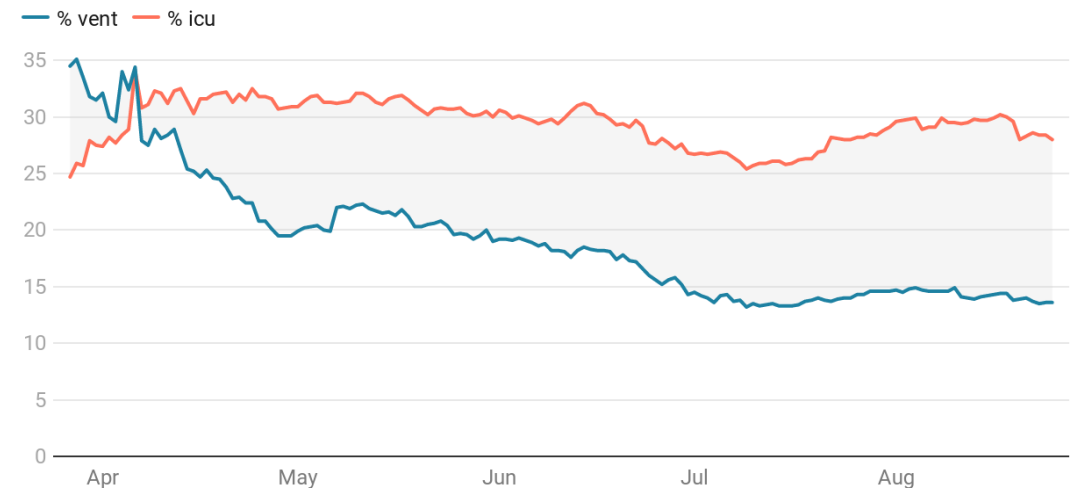


For states reporting these data: AZ, CA, ID, IL, IN, IA, KS, KY, ME, MD, MA, MI, MN, MS, NV, NJ, NY, NC, OH, OK, OR, RI, SC, TX, UT, VA, WI & WY

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

Severity of Hospitalized Patients

% of patients on ventilators and in the ICU, As of August 25



Health Industry Advisor LLC analysis

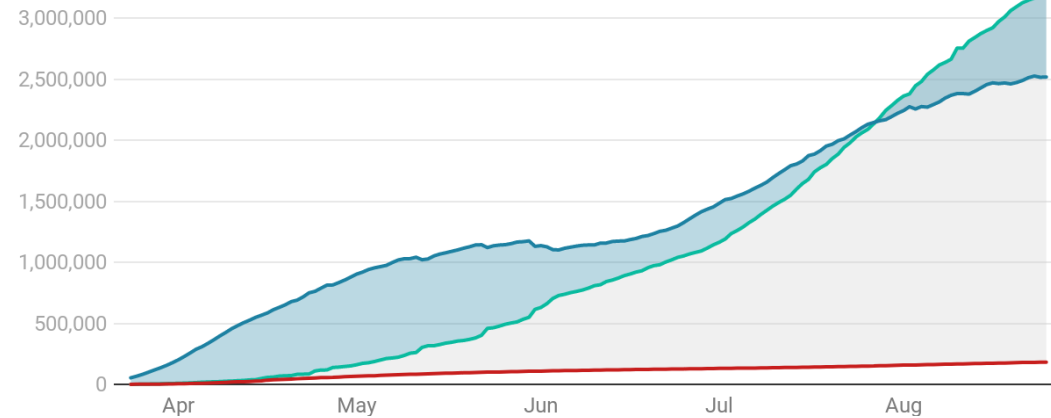
Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

3.25 million have recovered from the coronavirus in the U.S.
30% more recoveries than active cases at this point
Nearly 18 recovered persons for each death

Active Cases v. Recoveries & Deaths

Through August 25

— Active Cases — Recoveries — Deaths

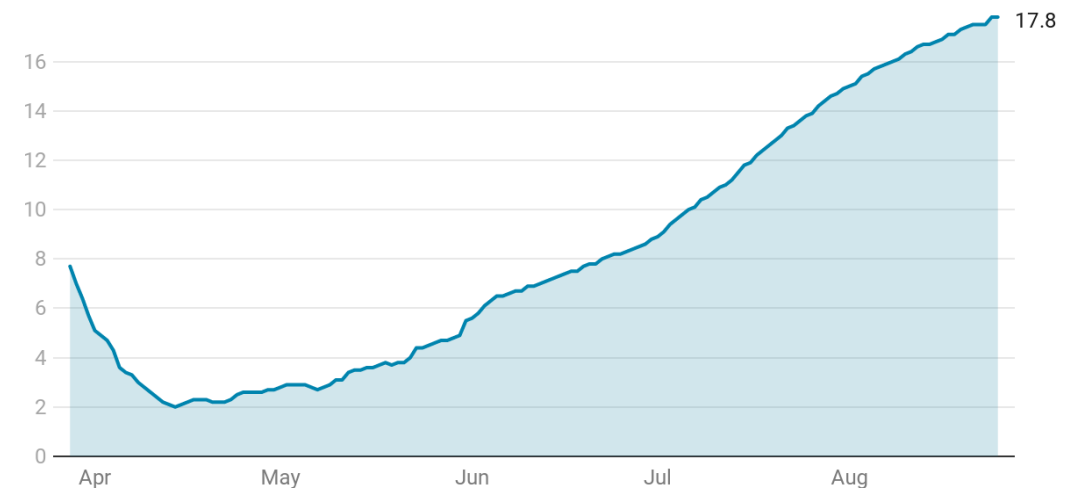


Health Industry Advisor LLC analysis

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

Recoveries: Deaths - United States

As of August 25



Health Industry Advisor LLC analysis

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

Daily deaths (7-day average) have trended down for past 8 days; now at their lowest point since July 20-26

Deaths per reported case now <3.1%

Deaths Recorded With Coronavirus in the U.S.

Trailing 7-Day Moving Average, As of August 25

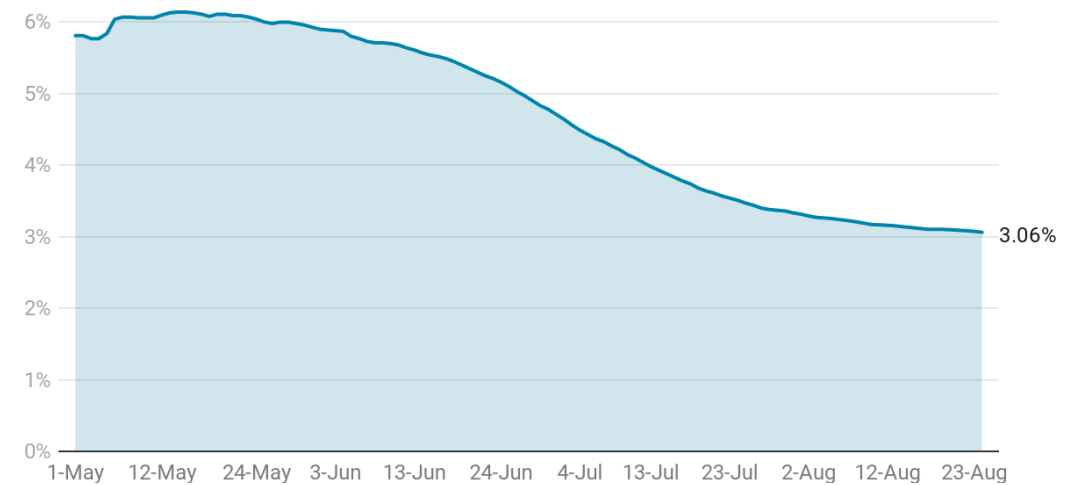


Health Industry Advisor LLC analysis

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

Deaths Per Case

As of August 24



Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: worldometers.info • 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>
- COVID-19 Projections Using Machine Learning, <https://covid19-projections.com>