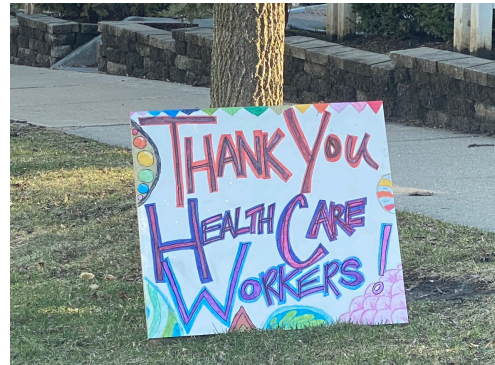
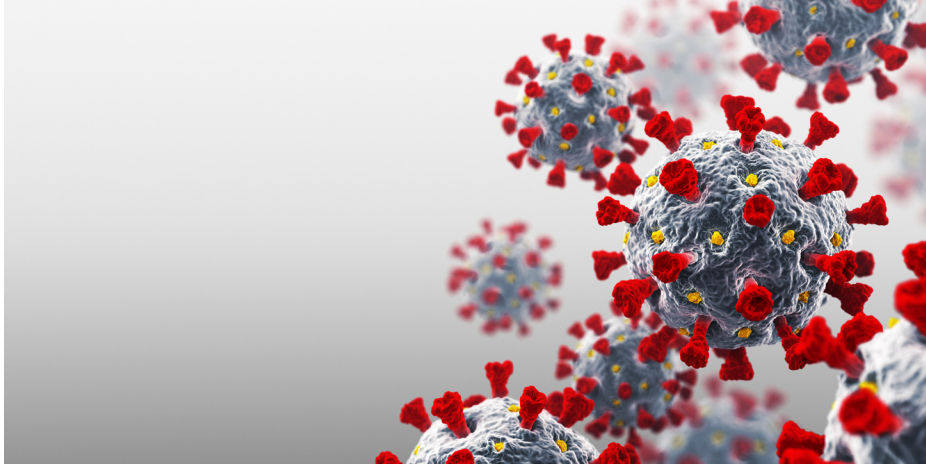
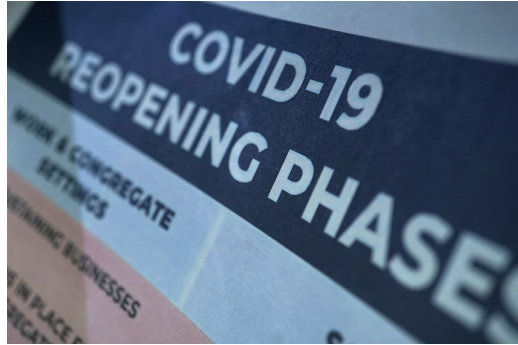




COVID-19 Report

Issue # 135

Friday, August 14, 2020

- Starting with testing today - some progress:
 - Testing volume picked up significantly on Thursday: **testing yesterday was the highest volume since July 24**
 - On a 7-day trend basis, testing is the highest in nine days
 - Other than Monday's results, **test-positive % yesterday was the lowest since June 20**; on a 7-day trend basis, yesterday's rate is the lowest since June 30
- New cases/infections - a mixed story:
 - New cases have declined 2.3% on a week-over-week basis; the rate at which this is declining, however, has diminished for the past six days
 - These new cases have followed a consistent day-of-week pattern, with new cases lowest on weekends and increasing each day until Thursday or Friday. Yesterday's new cases were the lowest for a Thursday since late June
 - **The new infection rate has plateaued over the past week**
 - Reflecting the longer-term trend in infection rates, **only four states have experienced their peak rate during the past 9 days; only eleven states are within 10% of their peak rate**
- Healthcare resources - a continuing positive story
 - **COVID-19 census declined for the 15th consecutive day** and the 19th in the last 21 days; California, Florida and Texas each are seeing more than 1,000 were patients than a week ago
 - **ICU census declined for the 7th consecutive day; it is now 14% below its recent peak and 40% lower than its mid-April peak**
 - ER visits for COVID-19 like illness declined again, continuing a pattern than began in early July; this rate is now lower than any point since June 14
- Deaths with the Coronavirus - still too high
 - Deaths were slightly lower on consecutive days yet, remain >1,000
 - **On a 7-day trend basis, the number of deaths per day has been fairly consistent for the past two weeks**

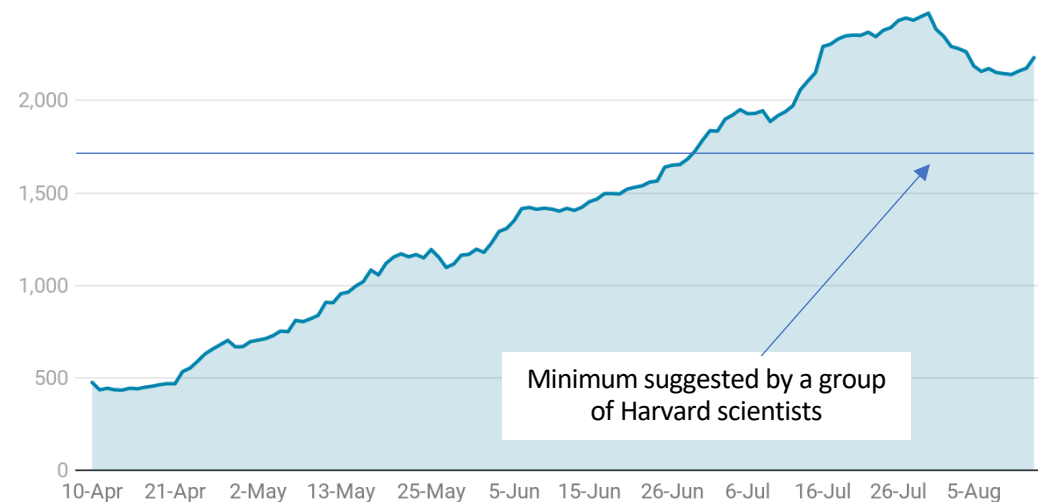
United States

Test volume on Thursday was highest since July 24; week-over-week rate was highest in nine days

Test-positive rate was 2nd lowest since June 20 (August 10 was lowest); weekly rate was lowest since June 30

Daily Tests Per 1 Million - United States

Trailing 7-Day Moving Average, As of August 13

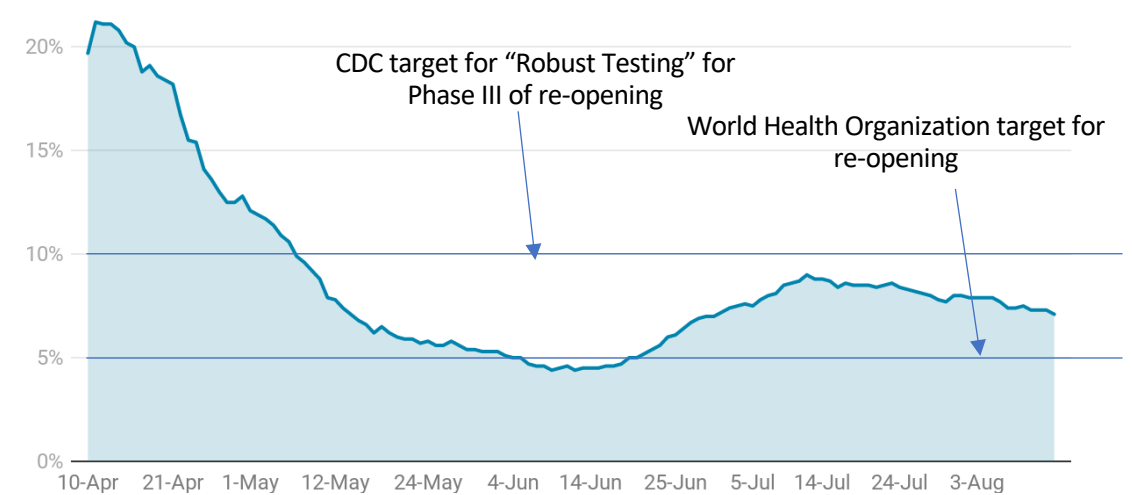


Health Industry Advisor LLC analysis

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 13



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

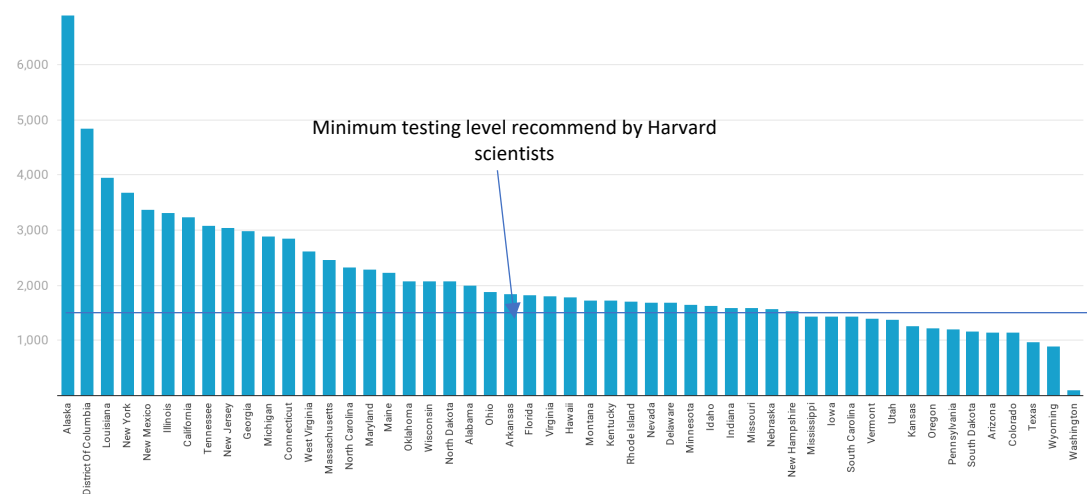
Note: Due to a computer glitch, Washington has only reported positive results since August 1. Therefore, test-positive rates from that point forward are slightly overstated by ~0.1%

State-By-State

Fourteen states are testing below the level suggested by Harvard scientists
 Twelve states have test-positive rates above the CDC-target for Phase III re-opening
 Thirty-two are above the more-stringent WHO recommended target

Daily Tests Per 1 Million Population

Trailing 7-Day Moving Average, As of August 13



Health Industry Advisor LLC analysis

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

1 – source: (source: <https://www.kff.org/coronavirus-policy-watch/what-testing-capacity-do-we-need/>)

2- Minnesota made an adjustment to tests counts this week, rendering this value meaningless

Test-Positive Rate

Trailing 7-Day Moving Average, As of August 13

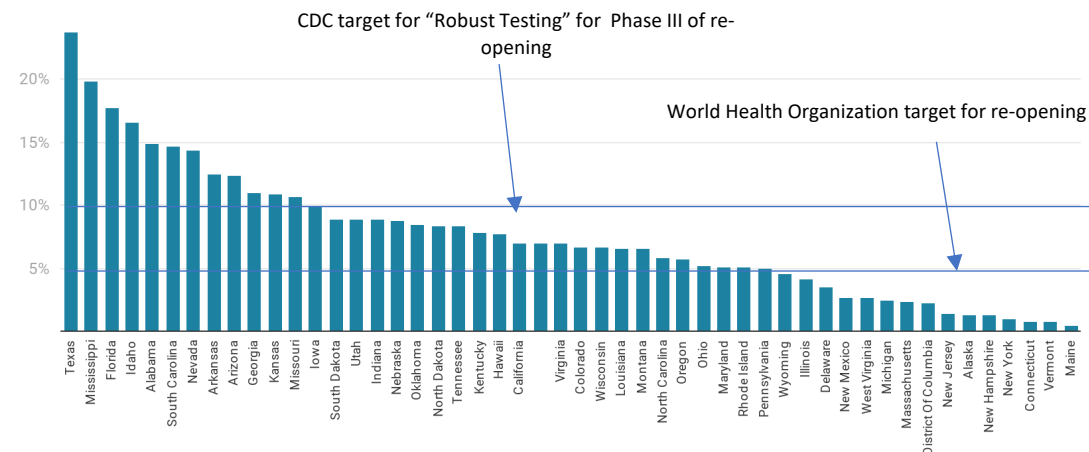


Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Projects • Created with Datawrapper

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

United States

New cases were up slightly yesterday; were the fewest new cases on a Thursday since June 25; Week-over-week, new cases are down 2.3%, although this rate of decline is diminishing

New Cases

Through August 13

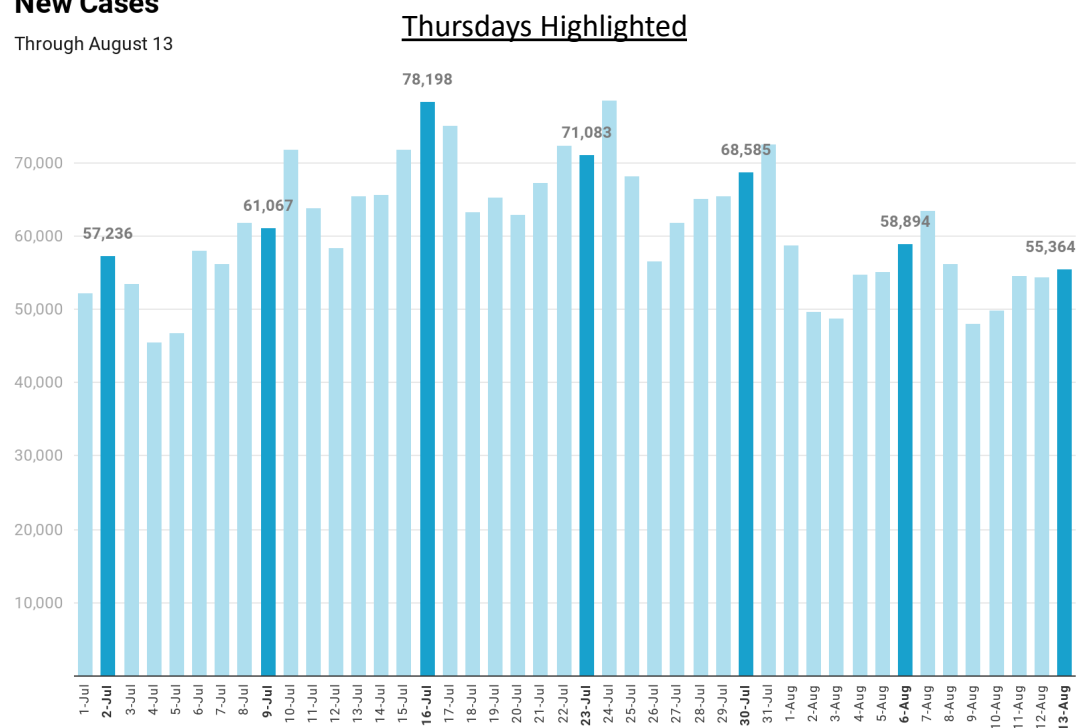
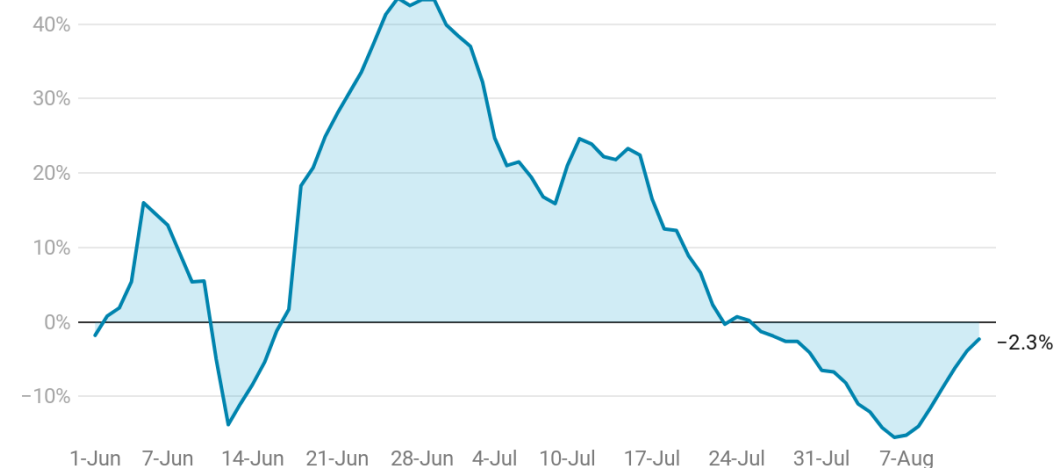


Chart: Health Industry Advisor LLC • Source: eorlometers.info • Created with Datawrapper

Note the daily pattern: new cases are typically low on Sunday, then increase each day through the week

Week-Over-Week Change In New Cases

Through August 13



Health Industry Advisor LLC analysis

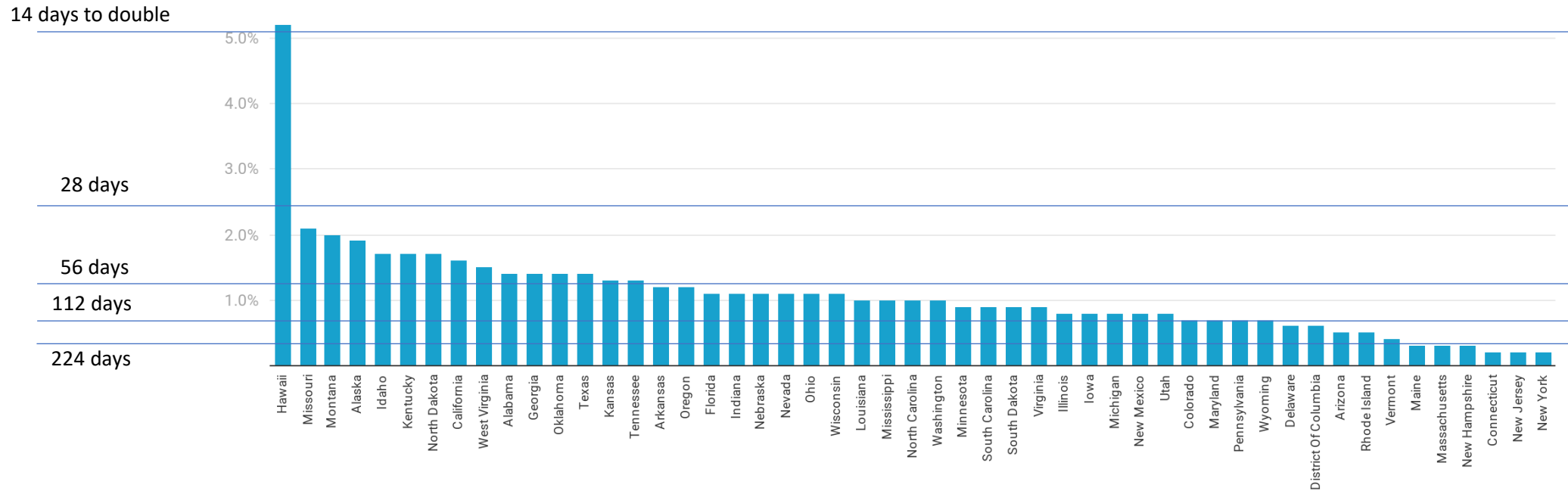
Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

State-By-State

Case growth is slowing but, Hawaii remains the outlier. At current rates, cases are doubling every 13-14 days in Hawaii; every 446 days in New York; 69 days for the United States overall

Growth Rate in Total Cases

Trailing 5-Day Moving Average, Through August 13

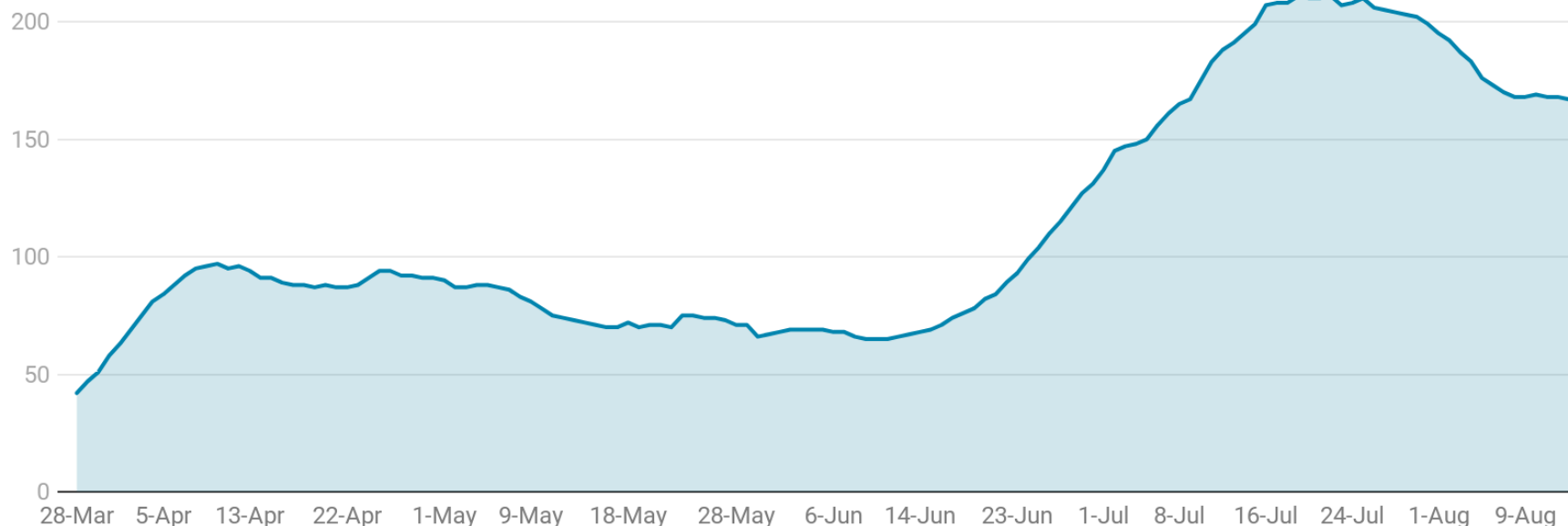


Health Industry Advisor LLC analysis

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

New Infections Per 1 Million Population - United States

Trailing 7-Day Moving Average, Through August 13



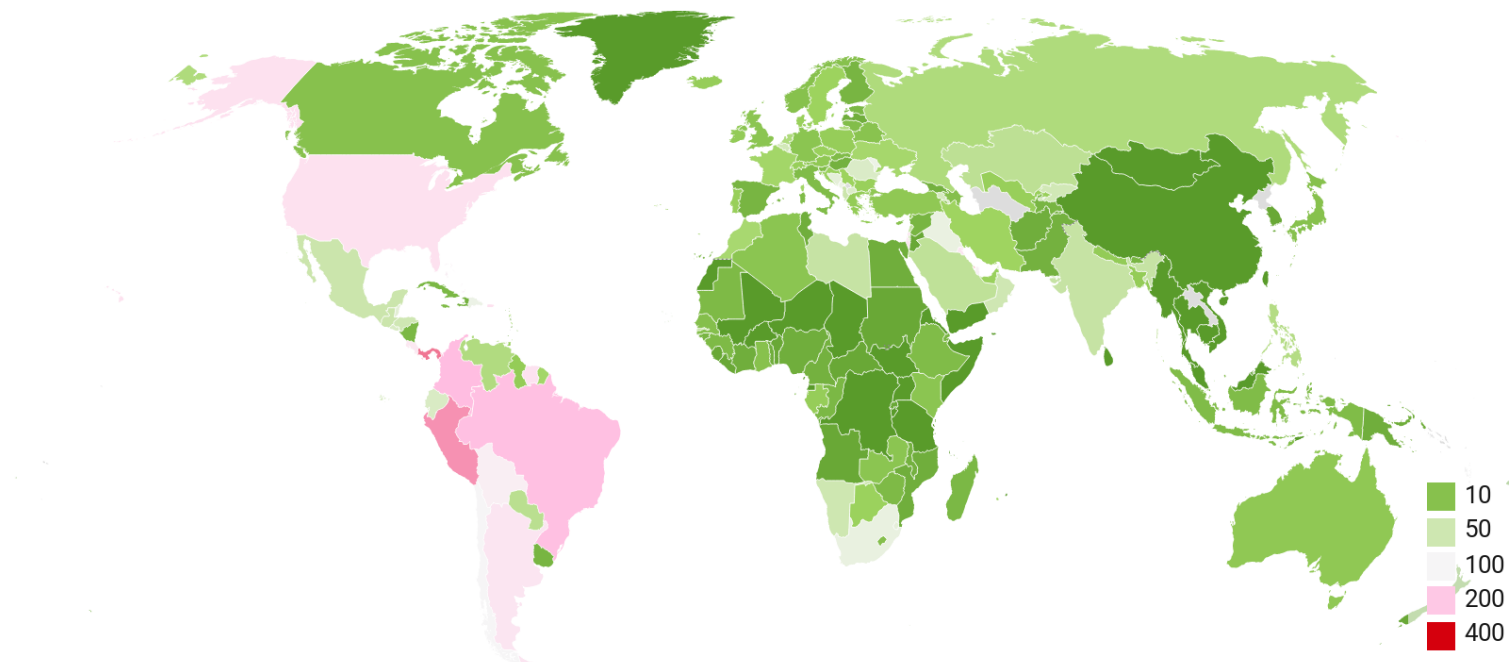
Health Industry Advisor LLC analysis

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

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

New Daily Infections / 1 Million Population

Trailing 7-Day Moving Average, As of August 13

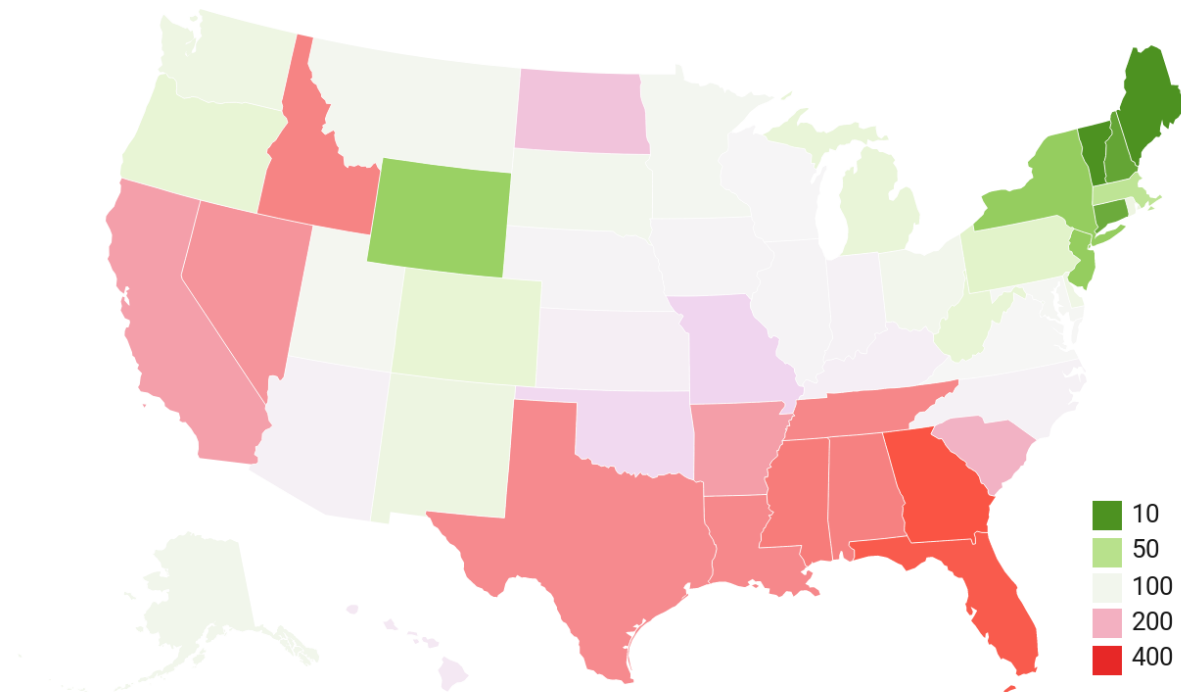


Health Industry Advisor LLC analysis

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 13



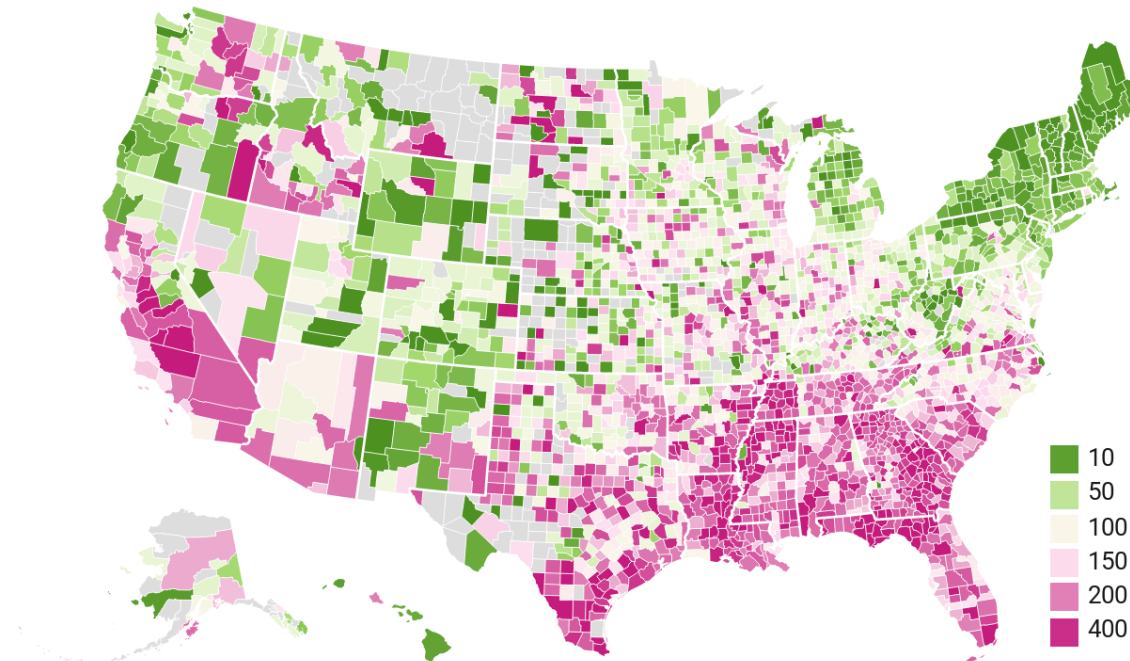
Map: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

ay, trailing 7-day moving average

New Infection rates remain highest in the Southeast, Texas, California and Arizona

New Daily Infections Per Million Population

Trailing 7-Day Moving Average, As of August 13



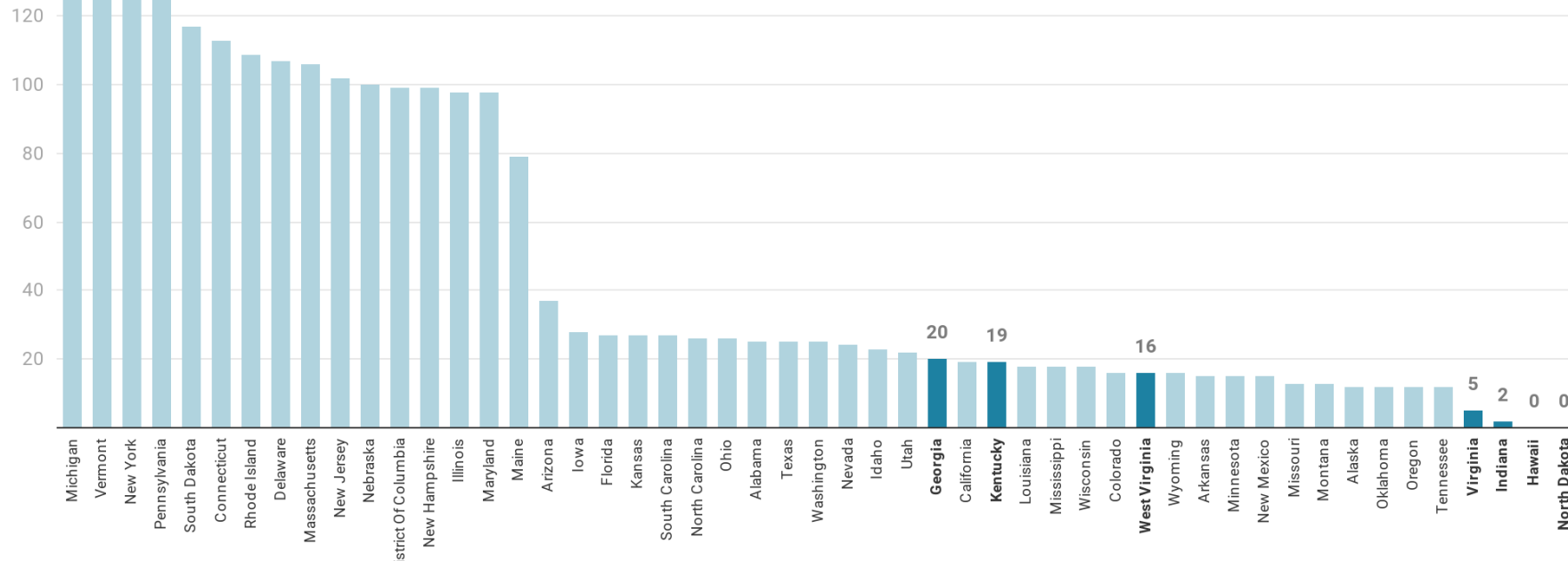
Health Industry Advisor LLC analysis

Map: Health Industry Advisor LLC • Source: New York Times • Created with Datawrapper

Only four states have experienced their highest infection rate within the past eleven days; Those four, plus West Virginia, Kentucky and Georgia are the only states with current rates within 10% of peak

Days Since Peak New Infection Rate

Trailing 7-Day Moving Average, As of August 13



Highlighted states have a new daily infection rate $\geq$ 90% of their peak level (trailing 7-day moving average)

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

United States

Thirteen states are experiencing new infection rates less than ½ their peak; Connecticut, New Jersey and New York are under 10%

New Daily Infections / Million

% of YTD Peak, Trailing 7-Day Moving Average, As of August 13

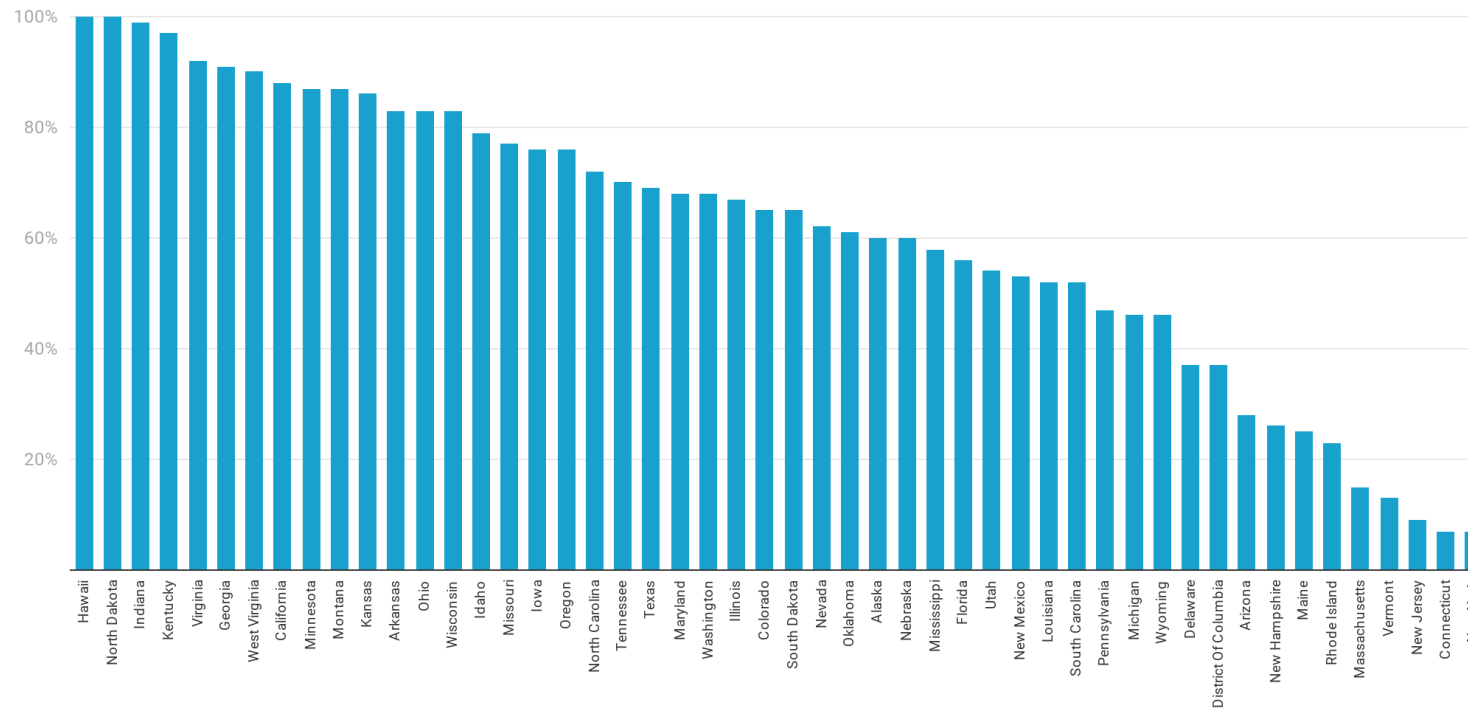


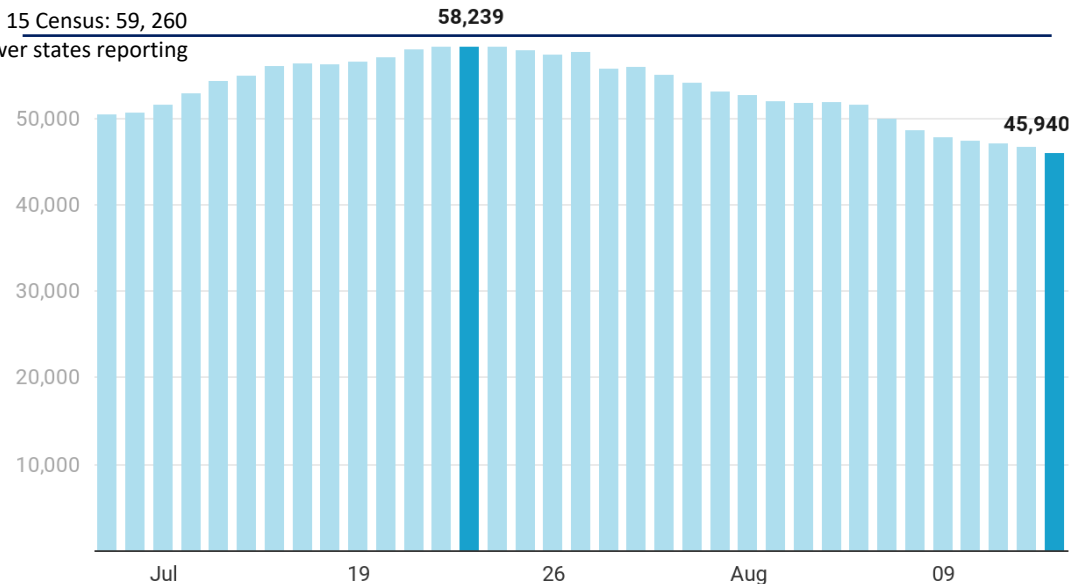
Chart: Health Industry Advisor LLC • Created with Datawrapper

COVID-19 census declined for 15th consecutive day and 19th in past 3 weeks; Now, down 20% in three weeks; Decline led by easing in California, Florida and Texas

Hospital Census: COVID-19 Patients

As of August 13

April 15 Census: 59,260
8 fewer states reporting



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 in COVID-19 Hospital Census

As of August 13

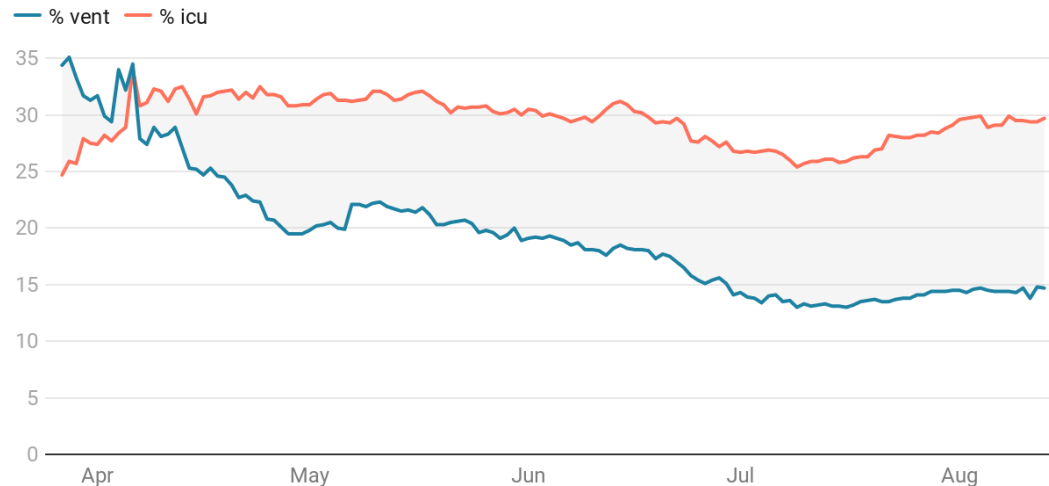


Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid tracking Project • Created with Datawrapper

ER Visits for COVID-19 are Declining

Severity of Hospitalized Patients

% of patients on ventilators and in the ICU, As of August 13

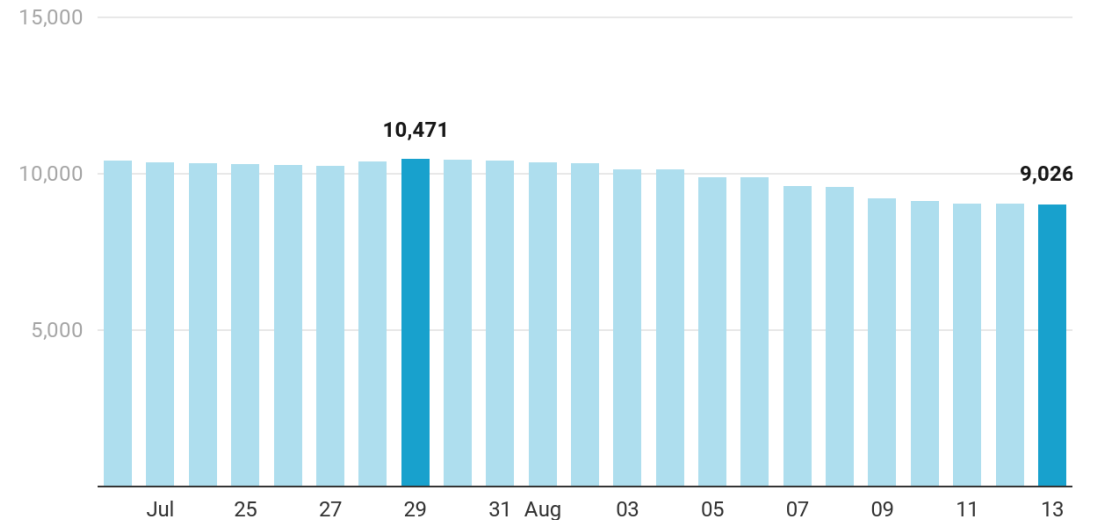


Health Industry Advisor LLC analysis

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

ICU COVID-19 Census Also Down

COVID-19 ICU Census

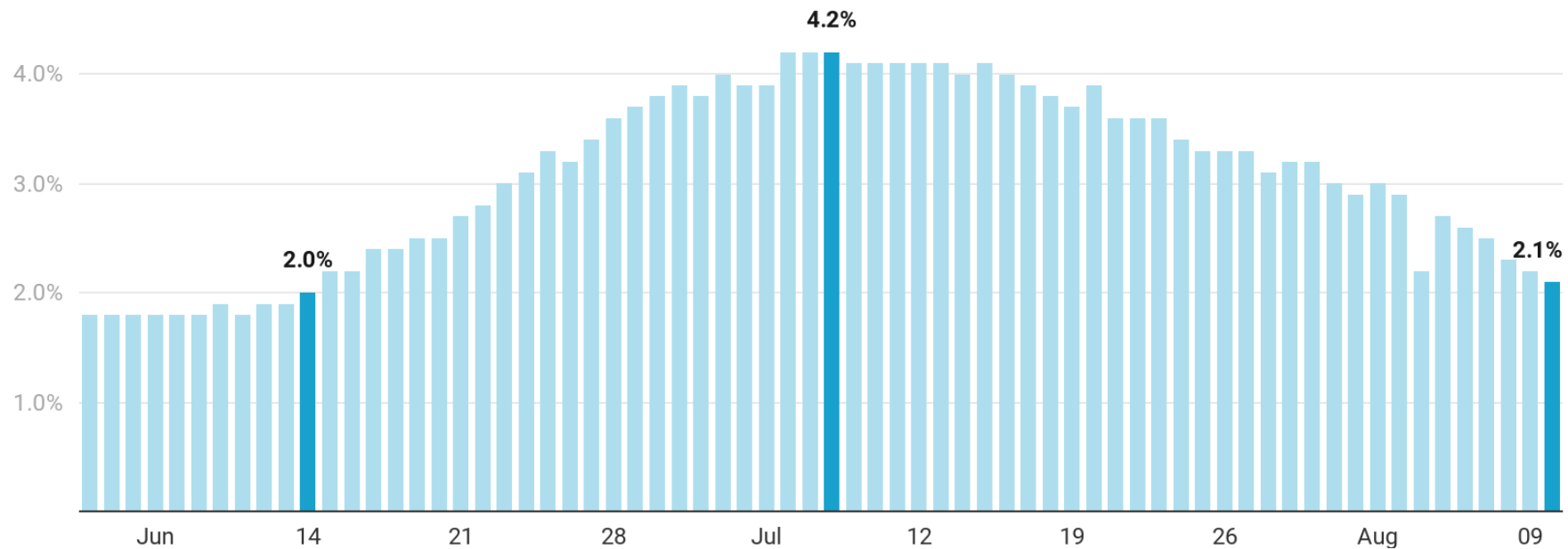


For states reporting these data: AZ, CA, ID, IL, IN, IA, KS, KY, ME, MD, MA, MI, MN, MS, NV, NJ, NY, NC, OH, OK, OR, RI, SC, TX, UT, VA, WI & WY

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

% of Emergency Department Visits for COVID-Like Illness

As of August 10

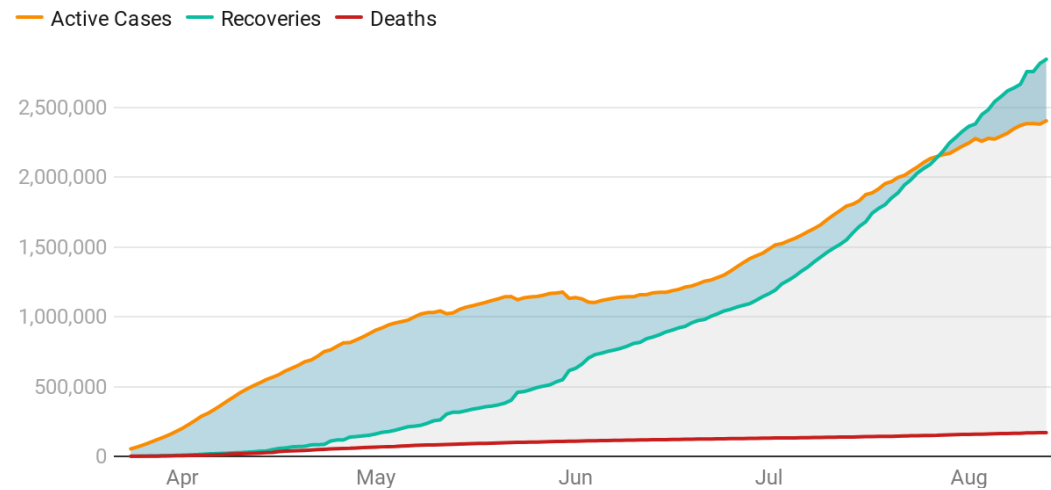


Health Industry Advisor LLC analysis

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

Active Cases v. Recoveries & Deaths

Through August 13

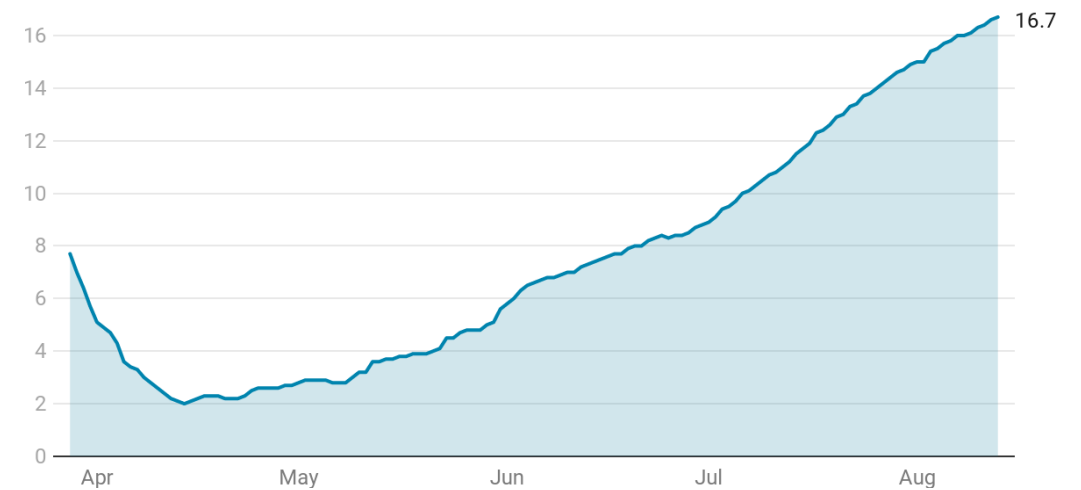


Health Industry Advisor LLC analysis

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

Recoveries: Deaths - United States

As of August 13



Health Industry Advisor LLC analysis

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

Deaths down slightly on consecutive days yet remained high on Thursday;
Week-over-week rate consistent with range during past two weeks
Deaths per case down to 3.15%

Deaths Recorded With Coronavirus in the U.S.

Trailing 7-Day Moving Average, As of August 13

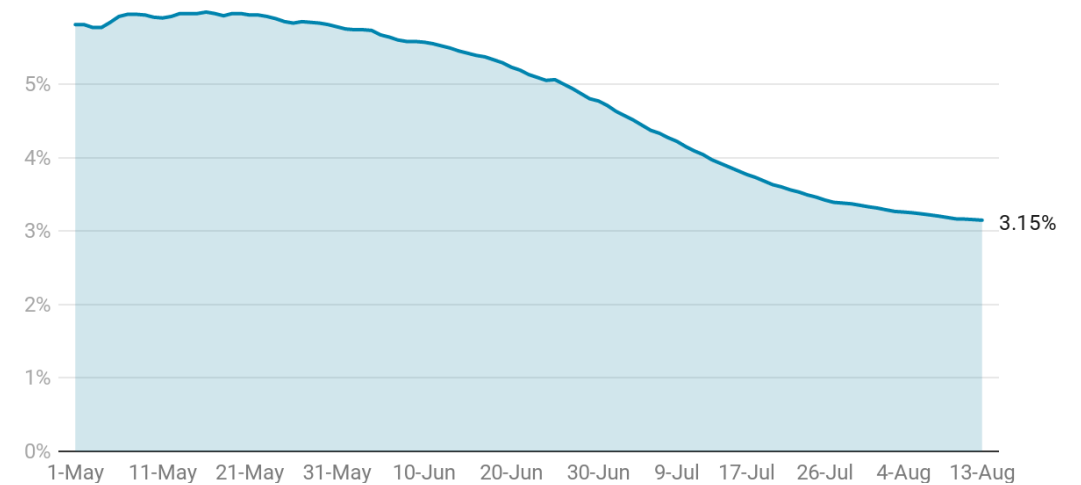


Health Industry Advisor LLC analysis

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

Deaths Per Case

As of August 13



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>