







COVID-19 Report

Issue # 137

Sunday, August 16, 2020



Today's Highlights

- Test volume is continuing to show a resurgence in the US. On a
 week-over-week basis, test volume is up 8%. Importantly, the 7day average test-positive rate is at its lowest since June 27
- Six states have both high (>10%) and increasing test-positive rates for the past week: Alabama, Arkansas, Idaho, Kansas, Mississippi and Texas. Sixteen states are experiencing testpositive rates of 5% or lower
- New cases were sharply lower yesterday (not unusual for a Saturday) and are the fewest on any Saturday since Independence Day. On a week-over-week bases, new cases were down 2.6%
- New infections per capita, on a 7-day moving average basis, inched lower again yesterday, continuing a new 5-day trend
- At this point, the U.S. ranks 8th in the world on total cases per capita but, has fallen to 11th in the current rate of new infections per capita; it ranked 5th on this rate just two weeks ago

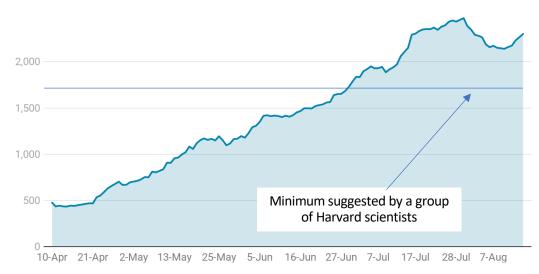
- On a state-by-state basis, the new infection rate seems to be easing in the Southeast and parts of the West. Of the eleven states with the highest rates, only two, Alabama and California, saw these rates increase over the past week
- Among Large Central Metro Areas, twelve of the twenty with the highest current infection rates are in California, Florida and Texas; Six of the ten with the lowest rates are in New Jersey and New York
- A similar pattern is observed with Large Fringe Areas: twelve of the twenty highest rates are in California, Florida and Texas; four of the ten lowest rates are in New Jersey and New York
- Healthcare resource use for COVID-19 cases continues to decline
 - Hospital census is down 22% since July 22 and 26+% since mid-April
 - ICU census is down 18% in the past two weeks and 42% since mid-April
 - ER visits % is now less than 1/2 its early-July peak
- Deaths with the coronavirus remain too high, however, they declined slightly for the 4th consecutive day on Saturday



With testing volume up 8% week-over-week, 7-day test-positive % is as low as been since June 27

Daily Tests Per 1 Million - United States

Trailing 7-Day Moving Average, As of August 15



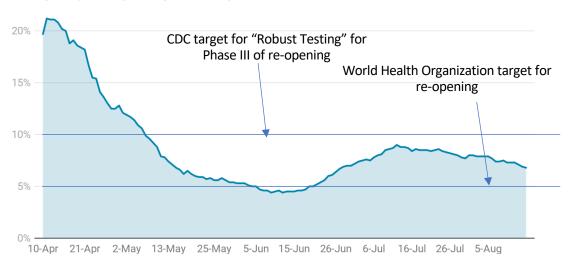
Health Industry Advisor LLC analysis

 $\textbf{Chart: Health Industry Advisor LLC \bullet Source: The Atlantic's Covid Tracking Project \bullet Created with Datawrapper}$

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

Test-Positive Rate - United States

Trailing 7-Day Moving Average, As of August 15



Health Industry Advisor LLC analysis

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

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 $^{\sim}0.1\%$

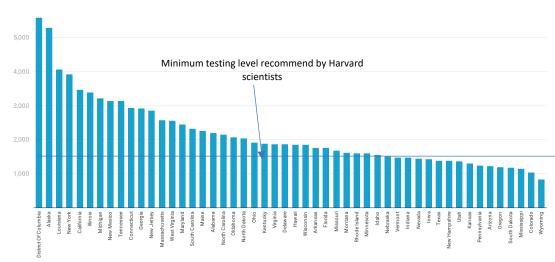


State-By-State

Fifteen states are testing below the level suggested by Harvard scientists Eleven states have test-positive rates above the CDC-target for Phase III reopening; six of these saw increasing rates this week Thirty-four are above the more-stringent WHO recommended target

Daily Tests Per 1 Million Population

Trailing 7-Day Moving Average, As of August 15



Health Industry Advisor LLC analysis

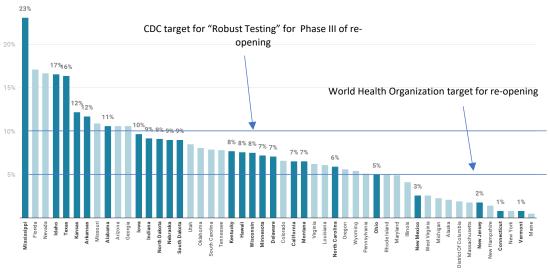
Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid tracking Project • Created with Datawrappe

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

Highlighted states saw increasing rates week-Test-Positive Rate over-week

Trailing 7-Day Moving Average, As of August 15

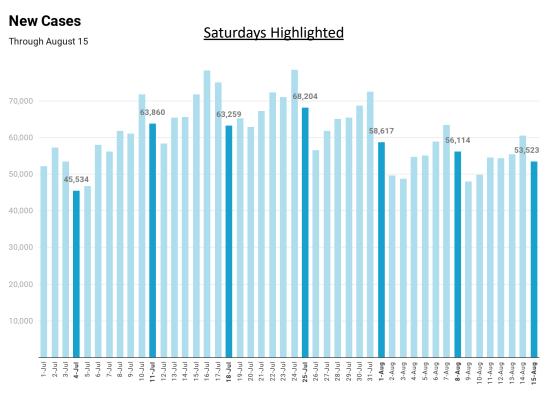


Chart; Health Industry Advisor LLC • Source; The Atlantic's Covid Tracking Projects • Created with Datawrappe

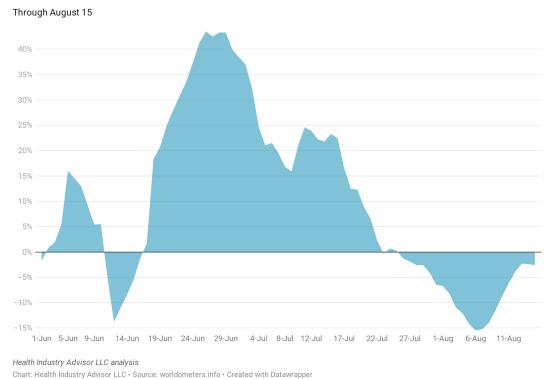
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New cases were down sharply yesterday; were the fewest new cases on a Saturday since July 4th; Week-over-week, new cases are down 2.6%



Week-Over-Week Change In New Cases



Industry Advisor LLC • Source: eorldometers.info • Created with Datawrapper

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

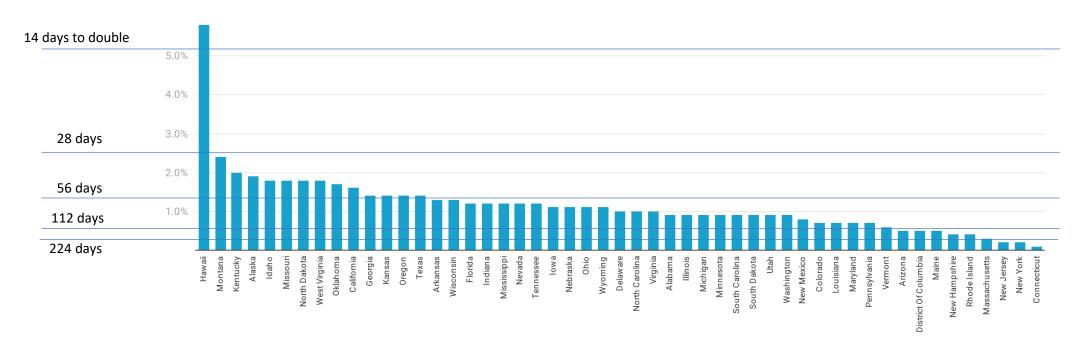


State-By-State

Case growth is slowing but, Hawaii remains the outlier. At current rates, cases are doubling every 12-13 days in Hawaii; every 533 days in Connecticut; 67 days for the United States overall

Growth Rate in Total Cases

Trailing 5-Day Moving Average, Through August 15



Health Industry Advisor LLC analysis

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



New infections per capita* declining ever-so-slightly for the past five days

New Infections Per 1 Million Population - United States

Trailing 7-Day Moving Average, Through August 15



Health Industry Advisor LLC analysis

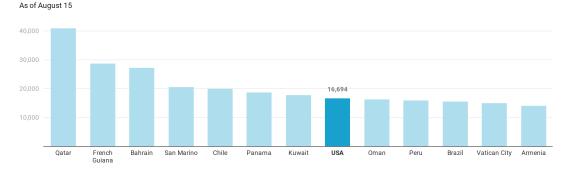
Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

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



United States ranked 8th in the world in total infections per capita and 11th in the current infection rate per capita*. Two weeks ago, the U.S. had the 5th highest rate of infections per capita

Total Infections / Million Population

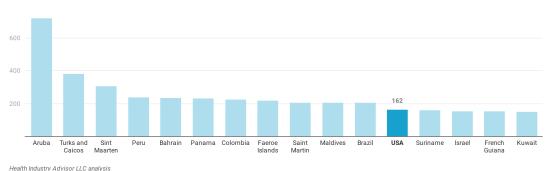


Health Industry Advisor LLC analysis

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

New Daily Infections / Million Population

Trailing 7-Day Moving Average, As of August 15



 $\textbf{Chart: Health Industry Advisor LLC \cdot Source: worldometers.} info \cdot \textbf{Created with Datawrapper}$

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

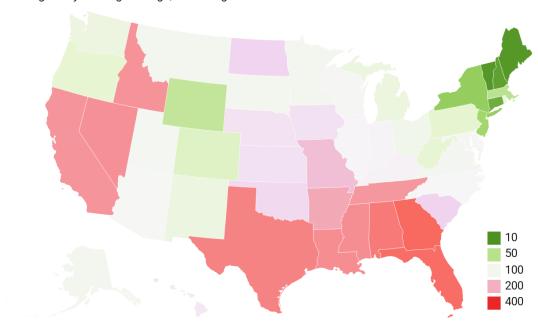


State-By-State

New daily infection rates, although easing, remain high in the Southeast and parts of the West; Of the eleven states with the highest rates, only two saw this rate increase last week

New Daily Infections Per 1 Million Population

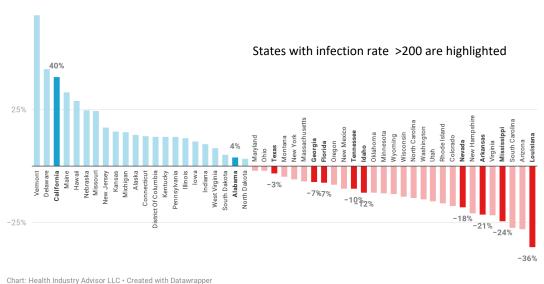
Trailing 7-Day Moving Average, As of August 15



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

Week-Over-Week Change in New Daily Infections / Million

Trailing 7-Day Moving Average, August 15 v. August 8



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

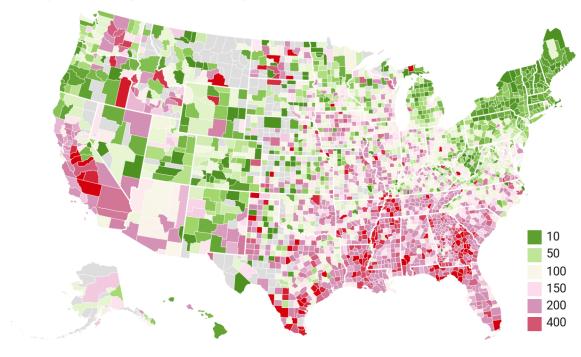


Metro-By-Metro

New Infection rates remain high yet easing in parts of the Southeast; Increasing in parts of California

New Daily Infections Per Million Population





Health Industry Advisor LLC analysis

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



County-By-County

Miami-Dade has by far the highest rate of new infections among Large Central Metro Areas this week; 12 of the top 20 are in California, Florida and Texas. Six of the ten areas with the lowest rates are in New Jersey and New York

New Daily Infections / Million - Large Central Metro Areas

Trailing 7-Day Moving Average, As of August 15

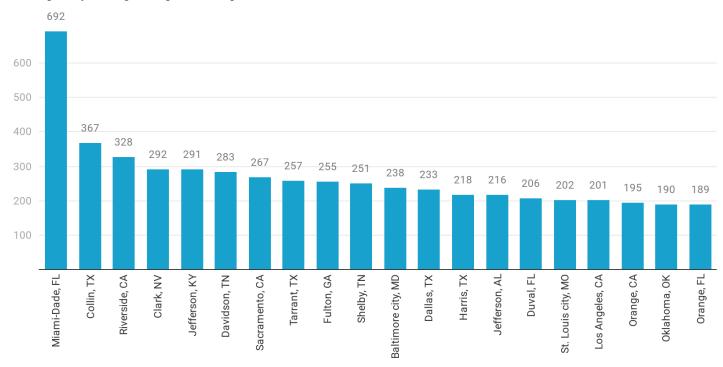


Chart: Health Industry Advisor LLC • Created with Datawrapper

Areas with the lowest current infection rates:

- 1. Hartford, CT
- 2. Essex, NJ
- 3. New York City
- 4. Erie, NY
- 5. Monroe, NY
- 6. Suffolk, MA
- 7. Union, NJ
- 8. Hudson, NJ
- 9. Kent, MI
- 10. Multnomah, OR



County-By-County

Among Large Fringe Metro Areas, 12 of the top 20 highest current infection rates are in California, Florida and Texas. Four of the ten areas with the lowest rates are in New Jersey and New York

New Daily Infections / Million - Large Fringe Metro Areas



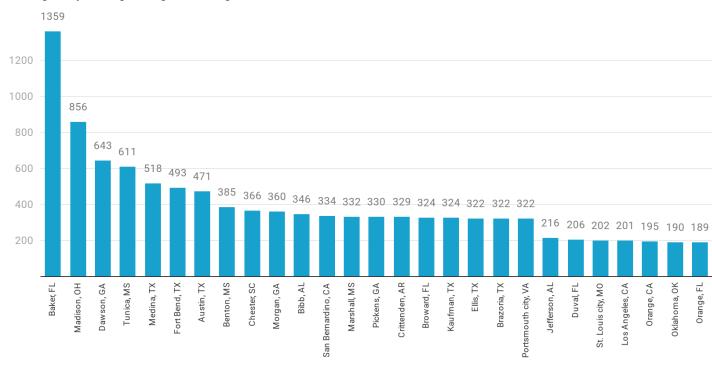


Chart: Health Industry Advisor LLC • Created with Datawrapper

Areas with the lowest current infection rates:

- 1. Caldwell, MO
- 2. Tolland, CT
- 3. Park, CO
- 4. Livingston, NY
- 5. Orleans, NY
- 6. Hunterdon, NJ
- 7. Ontario, NY
- 8. Clear Creek, CO
- 9. Rockingham, NH



Industry COVID-19 census has declined 22% since July 24; Now, down 26+% from mid-April peak

Hospital Census: COVID-19 Patients

As of August 15



Florida data first available on July 10

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

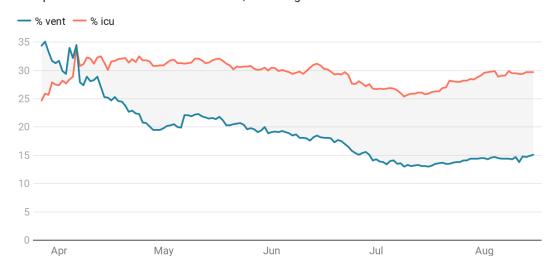


Stress on ICU beds and ventilators is also easing; ICU census is 18% below its recent peak; 42% lower than its mid-April peak

As hospital census declines, % in ICU is stable

Severity of Hospitalized Patients

% of patients on ventilators and in the ICU, As of August 15



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

5,000 April 22 Census: 15,013 8 fewer states reporting



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

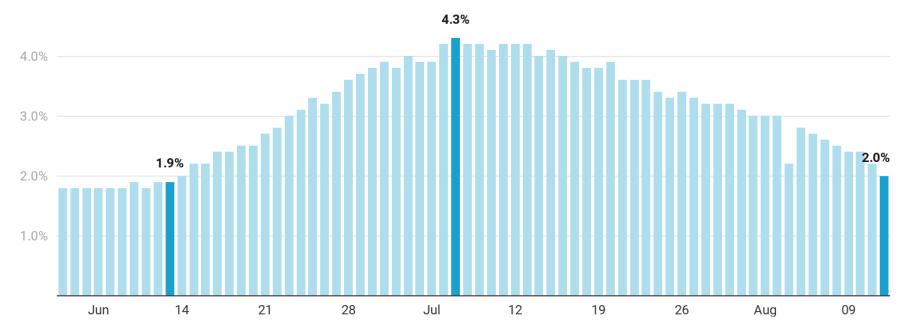
Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper



ER visits for COVID-19-like illnesses continue to decline; Now, < ½ of peak rate and lowest since June 13

% of Emergency Department Visits for COVID-Like Illness

As of August 12



Health Industry Advisor LLC analysis

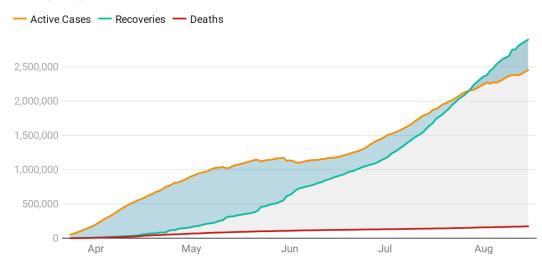
Chart: Health Industry Advisor LLC • Source: Centers for Disease Control • Created with Datawrapper



Nearly 2.9 million have recovered from the coronavirus in the U.S.; Nearly 17 recovered persons for each death

Active Cases v. Recoveries & Deaths

Through August 15

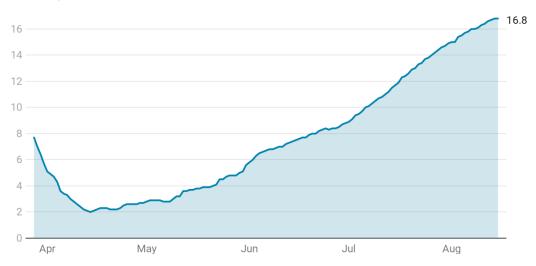


Health Industry Advisor LLC analysis

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

Recoveries: Deaths - United States

As of August 15



Health Industry Advisor LLC analysis

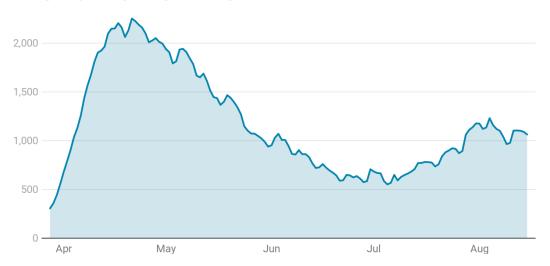
Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper



Deaths down slightly for 4th consecutive day yet, remained high on Saturday; Week-over-week rate continuing to decline slightly Deaths per case down to 3.12%

Deaths Recorded With Coronavirus in the U.S.

Trailing 7-Day Moving Average, As of August 15



Health Industry Advisor LLC analysis

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

Deaths Per Case

As of August 15



Health Industry Advisor LLC analysis

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



Data Sources

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