







# COVID-19 Report

Issue # 122

Saturday, August 1, 2020



# Today's Highlights

- Friday was a challenging day in the United States:
  - New cases were the highest reported in a week
  - Test volume was the lowest since July 13
  - The test-positive rate was the highest since July 11
  - More deaths were reported on Friday than on Thursday. The trend (trailing 7-day moving average) was up for the 4th consecutive day
- Other trends, however, remain favorable:
  - New cases are down 6% on a week-over-week basis
  - The rate of new daily infections per capita fell to its lowest rate since July 15 (measured on a trailing 7-day moving average basis). It has now been 12 days since this rate peaked
  - Hospital COVID-19 census declined on Friday, and for the 6th time in the past 8 days. This census is now at its lowest point since July 13
  - Less than 2% of active cases are currently in the hospital. Two weeks ago, this rate was 3%
  - ER visits (%) for COVID-19-like illnesses declined again on Tuesday (latest data available), continuing a 3-week long trend. This rate is now as low as it has been since June 19

- Trends at the state-level are more mixed:
  - Only 5 states reported their highest rate of new infections to-date yesterday: Alaska, Hawaii, Missouri, Montana and Oklahoma
  - Two states that are at least two months removed from their peak rate are, nonetheless, risking returning to their peak: Maryland and Virginia
  - In contrast, several states, despite recording a peak rate in the past several weeks, have already seen their rates drop by more than 15%: Arizona, California, Florida, Idaho, Iowa, Kansas, Louisiana, South Carolina, Texas and Utah
  - Half the states saw their rates increase in the past week; half saw them decline
  - Of the 11 states with rates >250 per day per million, however, eight saw their rates decline this past week. Montana, Oklahoma and Tennessee are of the most concern, as they each have rates >250 and saw these rates increase this past week
- In today's report, we examined the large central and fringe metro areas with high new infection rates (>250 per day per million):
  - Twenty large central metro areas exceeded this level (31% of all such metro areas), led by Miami-Dade, FL. Eight of these twenty are in Florida or Texas
  - Seventy-seven large fringe metro areas exceeded this level (31% of all such metro areas), led by Tunica, MS. The five highest rates are each in Florida and Mississippi: Tunica and Benton, MS; Broward, Osceola and Baker, FL



# Now eleven days past peak, new infections per capita continue a gradual decline

## **New Infections Per 1 Million Population - United States**

Trailing 7-Day Moving Average, As of July 31



Health Industry Advisor LLC analysis



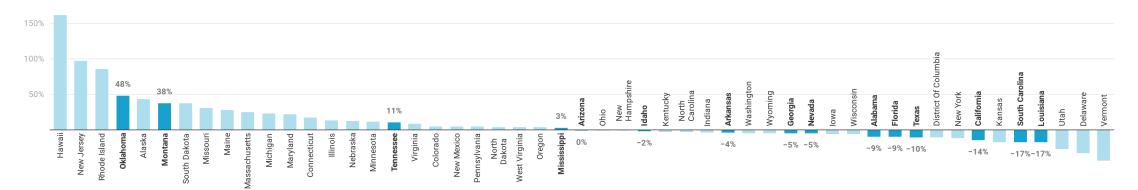
State-By-State

New infection rate increased in 25 states last week; Of the 14 states with rates >250 daily per million, however, 11 saw this rate decline

Oklahoma, Montana and Tennessee have rates > 250 per million each day and have seen this rate increase in the past week

#### **Week-Over-Week Change in New Infection Rate**

Trailing 7-Day Moving Average, July 31 v. July 24



Health Industry Advisor LLC analysis

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

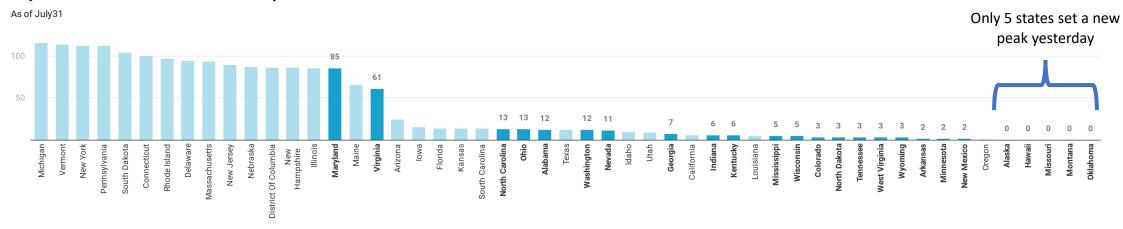
Highlighted states have a new daily infection rate > 250 million (trailing 7-day moving average)



# Only four states set a new high for daily infections per capita yesterday

Maryland and Virginia are close to peak infection rates set months ago. In contrast, Arizona, California, Florida, Idaho, Iowa, Kansas, Louisiana, South Carolina, Texas and Utah have seen rates decline by more than 15% from recent peak levels

#### **Days Since Peak New Infections Per Capita**



Health Industry Advisor LLC analysis

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

Highlighted states have a new daily infection rate >= 85% of their peak level (trailing 7-day moving average)

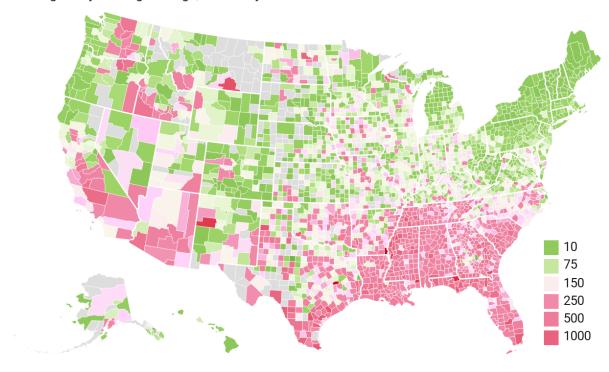


# County-By-County

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

## **New Daily Infections / Million Population**

Trailing 7-Day Moving Average, As of July 31



Map: Health Industry Advisor LLC • Created with Datawrapper

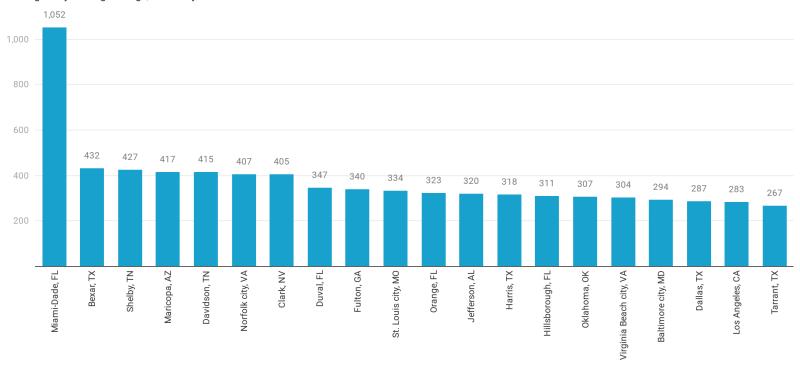


# County-By-County

# Twenty large central metro areas (31%) have new daily infections rates > 250 per million, 8 of these are in Florida and Texas

#### **New Infections / 1 Million**





Health Industry Advisor LLC analysis

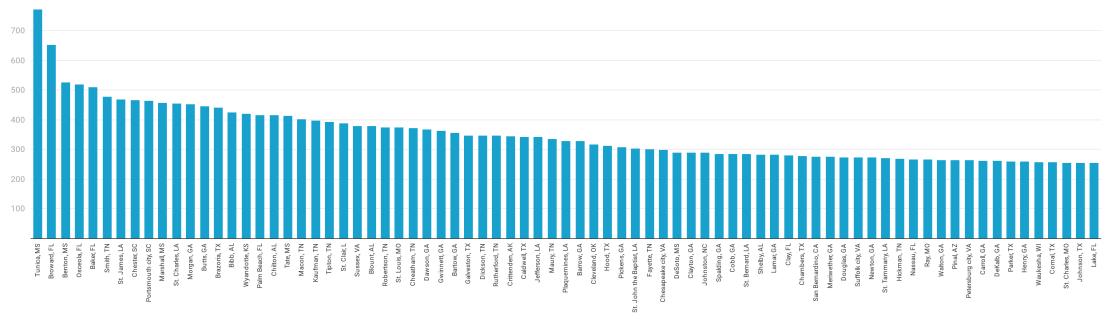


# County-By-County

# 77 large fringe metro areas (21%) have new daily infections rates > 250 per million

#### **New Infections / 1 Million**

Large Fringe Metro Areas, Trailing 7-Day Moving Average, As of July 31



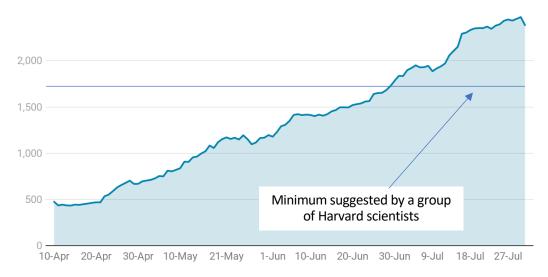
Health Industry Advisor LLC analysis



Fewest tests reported on Friday since July 13 and is down slightly week-over-week; test-positive rate was highest since July 11 yet, still lower week-over-week

## **Daily Tests Per 1 Million - United States**

Trailing 7-Day Moving Average, As of July 31

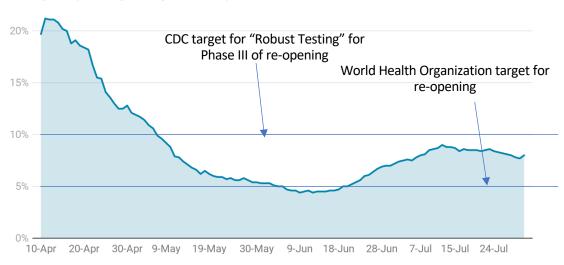


#### Health Industry Advisor LLC analysis

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 July 31



#### Health Industry Advisor LLC analysis

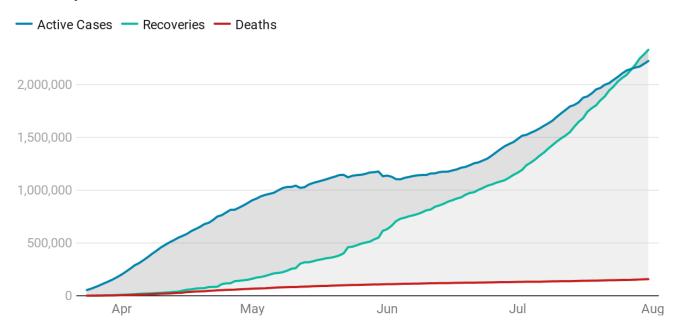
Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper



# Recoveries exceed active cases in the United States

## **Active Cases v. Recoveries & Deaths**

As of July 31



Health Industry Advisor LLC analysis



# Leading Indicator: After weeks of slower growth, new cases have now declined 6% on a week-over-week basis

## **Week-Over-Week Change In New Cases**

United States, As of July 31



Health Industry Advisor LLC analysis



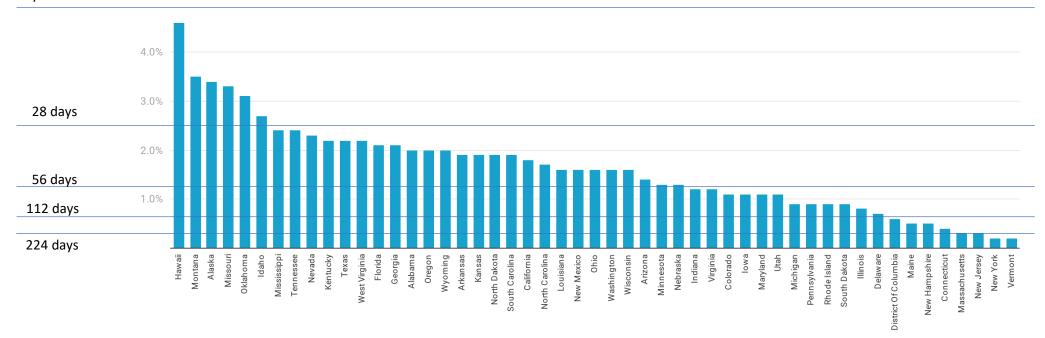
State-By-State

At current rates, cases are doubling every 15-16 days in Hawaii; every 396 days in New York; 47 for the United States overall

### **Growth Rate in Total Cases**

14 days to double

Trailing 5-Day Moving Average, As of July 31



Health Industry Advisor LLC analysis

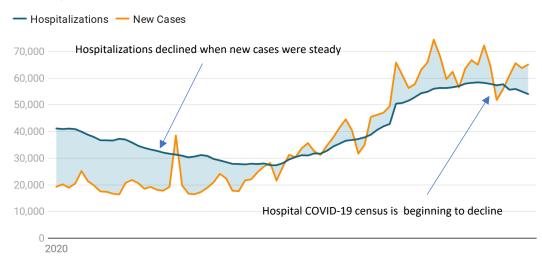


# Over the past week, COVID-19 hospital census has declined; Patients in the ICU (%) are increasing

COVID-19 stress on hospital beds is easing somewhat

## **Hospitalizations v. New Cases**

As of July 31



#### Health Industry Advisor LLC analysis

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

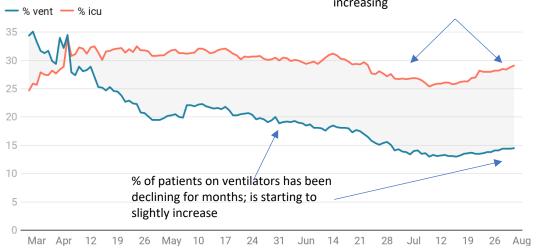
Data excludes Alabama, Alaska, Hawaii, Idaho, Kansas, Nebraska and Tennessee – data either not reported or not consistently reported

### Yet, more patients require ICU care

### **Severity of Hospitalized Patients**

% of patients on ventilators and in the ICU, As of July 31

% of patients in the ICU declined for a period following the case surge; now is increasing



#### Health Industry Advisor LLC analysis

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



Rate of hospitalization of active cases has declined over the past few weeks, as has the % of ER Visits for COVID-Like Illnesses. Less than 2% of active cases are in the hospital; less than 0.5% in the ICU

The vast majority of cases are being managed outside of the hospital

### **Distribution of Active Cases**

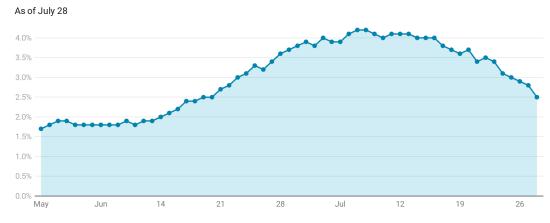
As of July 31



Chart: Health Industry Advisor LLC • Created with Datawrapper

### Stress on ERs from COVID-19 cases is diminishing

#### % of Emergency Department Visits for COVID-Like Illness



Health Industry Advisor LLC analysis

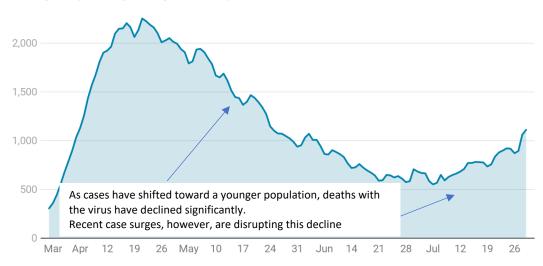
Chart: Health Industry Advisor LLC • Source: Centers for Disease Control • Created with Datawrapper



# As expected, deaths on week-over-week basis are rising; Recoveries outnumber deaths by >14:1

### Deaths Recorded With Coronavirus in the U.S.

Trailing 7-Day Moving Average, As of July 31

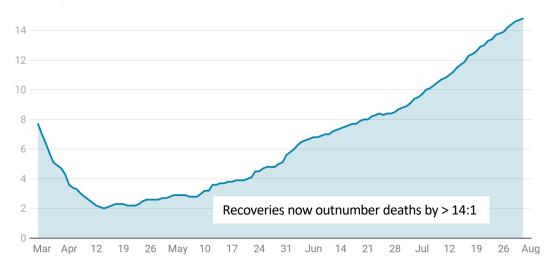


#### Health Industry Advisor LLC analysis

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

### **Recoveries: Deaths - United States**

As of July 31



#### Health Industry Advisor LLC analysis



# **Data Sources**

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

- The Atlantic's Covid Tracking Project: <a href="https://covidtracking.com">https://covidtracking.com</a>
- Worldometers.info: https://www.worldometers.info/coronavirus/
- Centers for Disease Control, National, Regional, and State Level Outpatient Illness and Viral Surveillance <a href="https://gis.cdc.gov/grasp/fluview/fluportaldashboard.html">https://gis.cdc.gov/grasp/fluview/fluportaldashboard.html</a>
- Centers for Disease Control, COVID-19 Laboratory-Confirmed Hospitalizations <a href="https://gis.cdc.gov/grasp/COVIDNet/COVID19">https://gis.cdc.gov/grasp/COVIDNet/COVID19</a> 5.html
- Centers for Disease Control, COVID Data Tracker <a href="https://www.cdc.gov/covid-data-tracker/index.html#mobility">https://www.cdc.gov/covid-data-tracker/index.html#mobility</a>
- Institute for Health Metrics and Evaluation, COVID-19 estimate downloads <a href="http://www.healthdata.org/covid/data-downloads">http://www.healthdata.org/covid/data-downloads</a>
- New York Times, Covid-19 data <a href="https://github.com/nytimes/covid-19-data">https://github.com/nytimes/covid-19-data</a>
- COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University https://github.com/CSSEGISandData/COVID-19