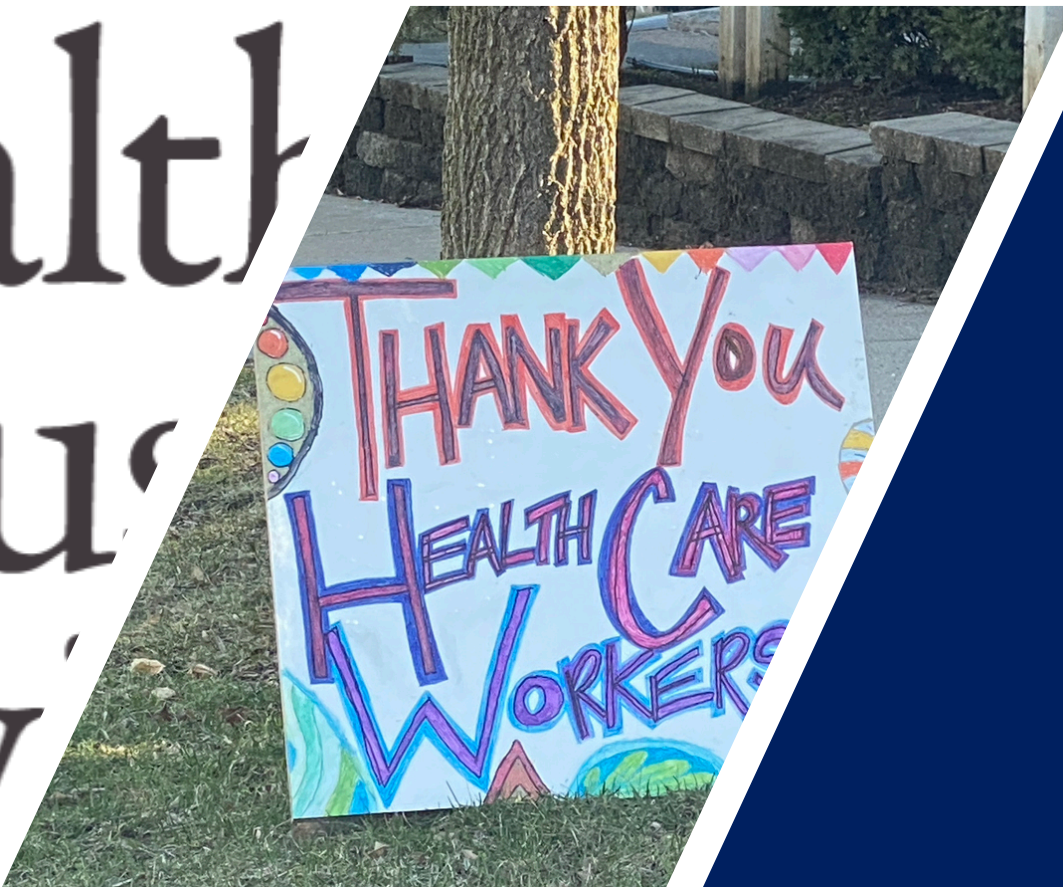




Health
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Issue # 186
Wednesday, October 14, 2020

COVID-19 Report

Highlights

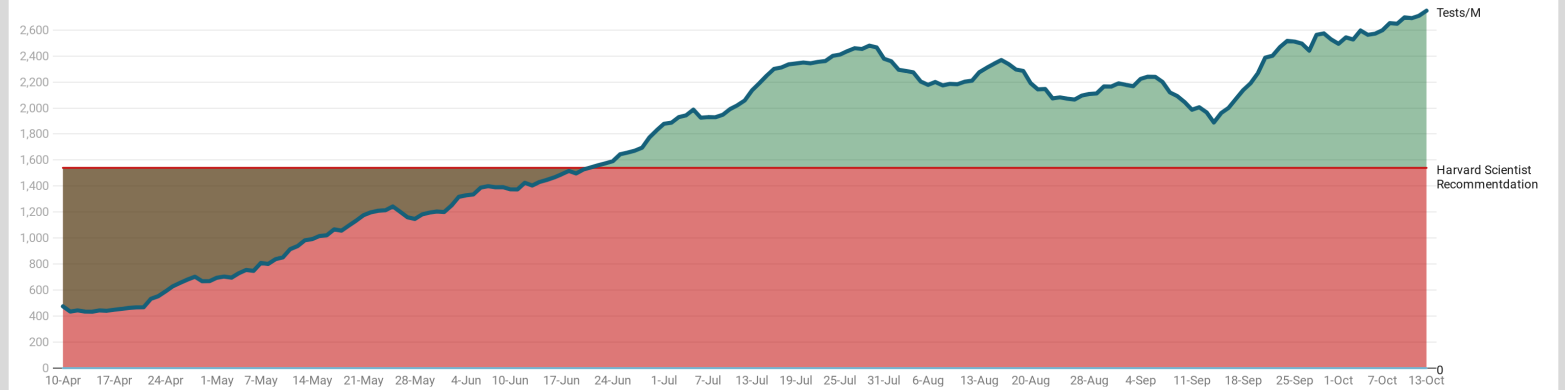
- **7-day average test volume reached another record high yesterday. This has occurred several times during the past week**
- 7-day test-positive rate was unchanged from yesterday. This rate remains just above the WHO target and well below the CDC target for Phase 3 re-openings
- Newly detected cases continue to rise yesterday:
 - **New cases are up 15.7% on a week-over-week basis.** This rate is unchanged from Monday; it is lower than peaks reached on September 19 (19.1%) and June 29 (43%)
 - There were more newly detected cases reported yesterday than on any Tuesday since August 11
- New daily infections per capita continue to rise, particularly in the Upper Midwest and Mountain States
 - **The new daily infection rate per capita rose for the eighth consecutive day.** This rate is higher than it has been since June 16 but, still 25% lower than its July 22 peak
 - **Montana, North Dakota and South Dakota are now experiencing infection rates higher than any other state has at any time during the pandemic; Wisconsin is approaching the peak rate experienced by New York in early April**
- **Inpatient census of Covid-19 patients is increasing but, other healthcare measures are easing**
 - On a same-day, prior week basis, this inpatient census has increased twenty consecutive days. During period of increasing census, it has regained 23% of the census decline posted from late-July to mid-September
 - Encouragingly, **the mix of these patients in the ICU and on ventilators has declined**
 - The mix of ER visits for Covid-19-like illnesses continues to be less than ½ its July rate; Despite the onset of the official flu season, we are not yet observing any uptick in ER visits for influenza-like illnesses
- Deaths with Covid-19 continue a downward trend
 - **The 7-day average deaths were slightly higher but, were lower than on all except four days since July 10**
 - Also, while there were more deaths reported yesterday than last Tuesday and the Tuesday after Labor Day, these were fewer than reported on any other Tuesday since then end of June

The 7-day average testing volume set another record high yesterday

The 7-day test-positive rate was unchanged from Monday

Daily Tests Per 1 Million - United States

Trailing 7-Day Moving Average, As of October 13

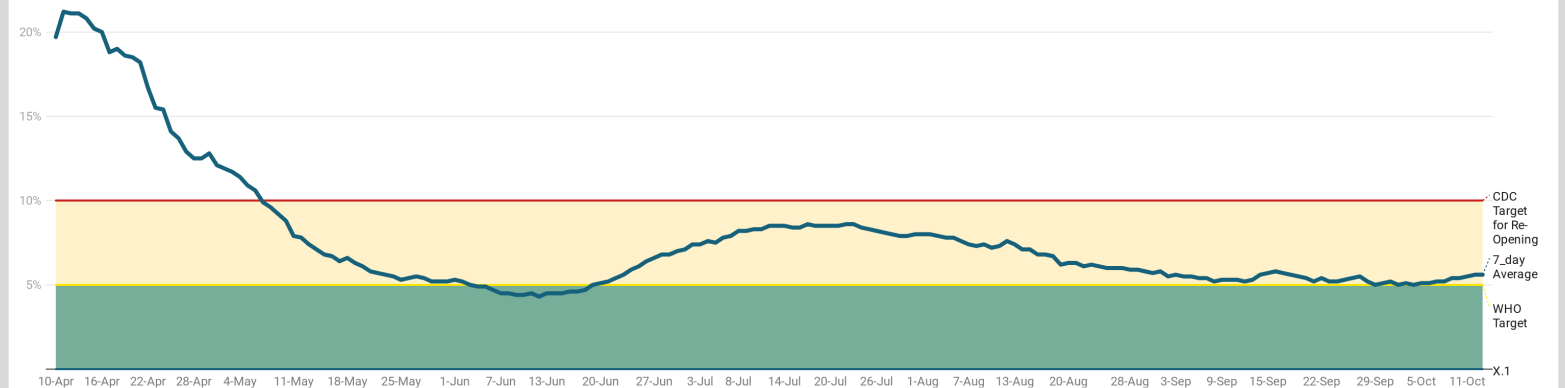


Health Industry Advisor LLC analysis

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 October 13



Health Industry Advisor LLC analysis

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

There were more newly detected cases reported yesterday than on any Tuesday since August 11

On a same-day, prior-week basis, newly detected cases have increased on seven consecutive days and ten of the past eleven days

Newly Detected Cases

Through October 13

Tuesdays Highlighted

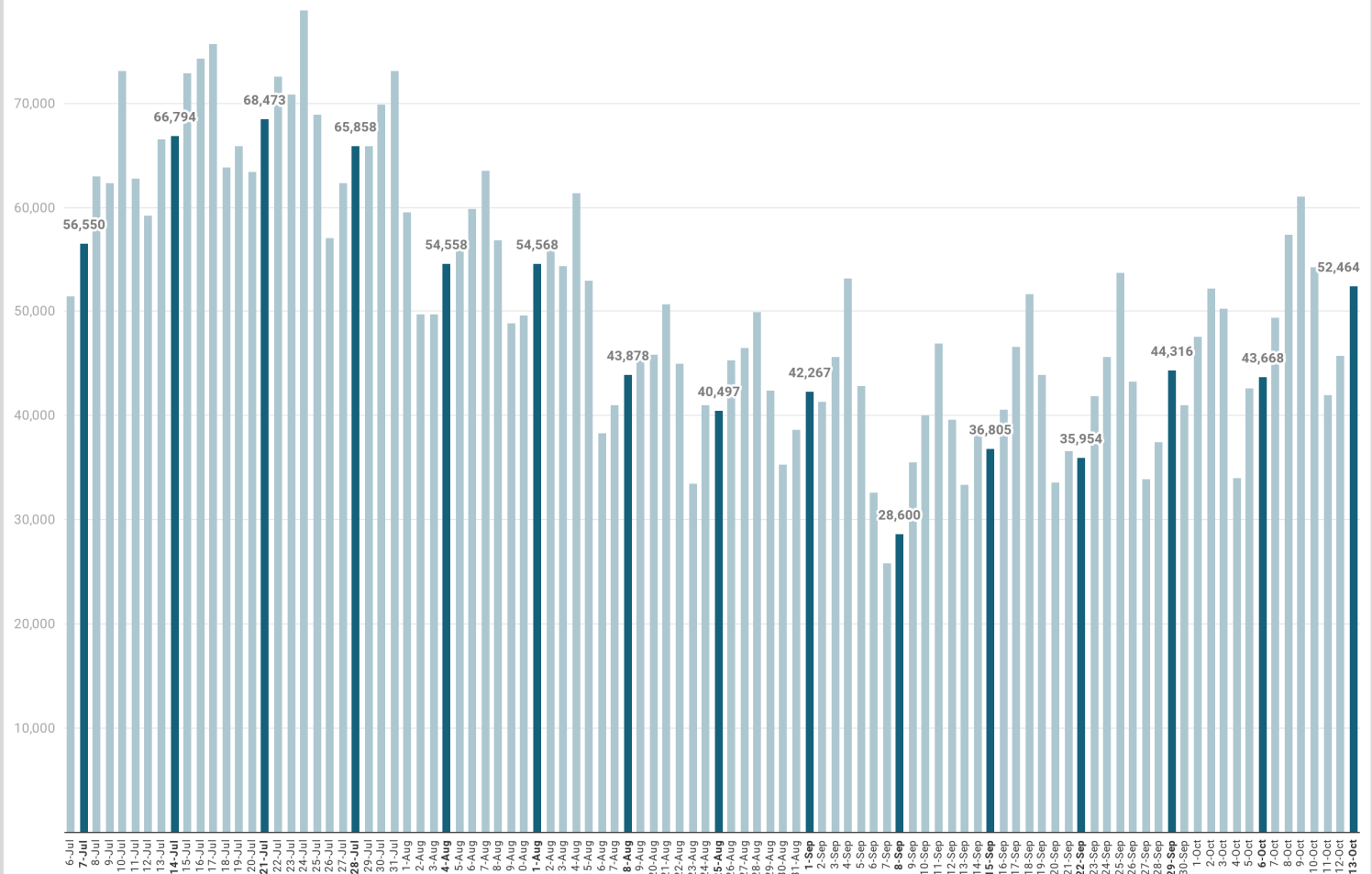


Chart: Health Industry Advisor LLC • Source: eoridometers.info • Created with Datawrapper

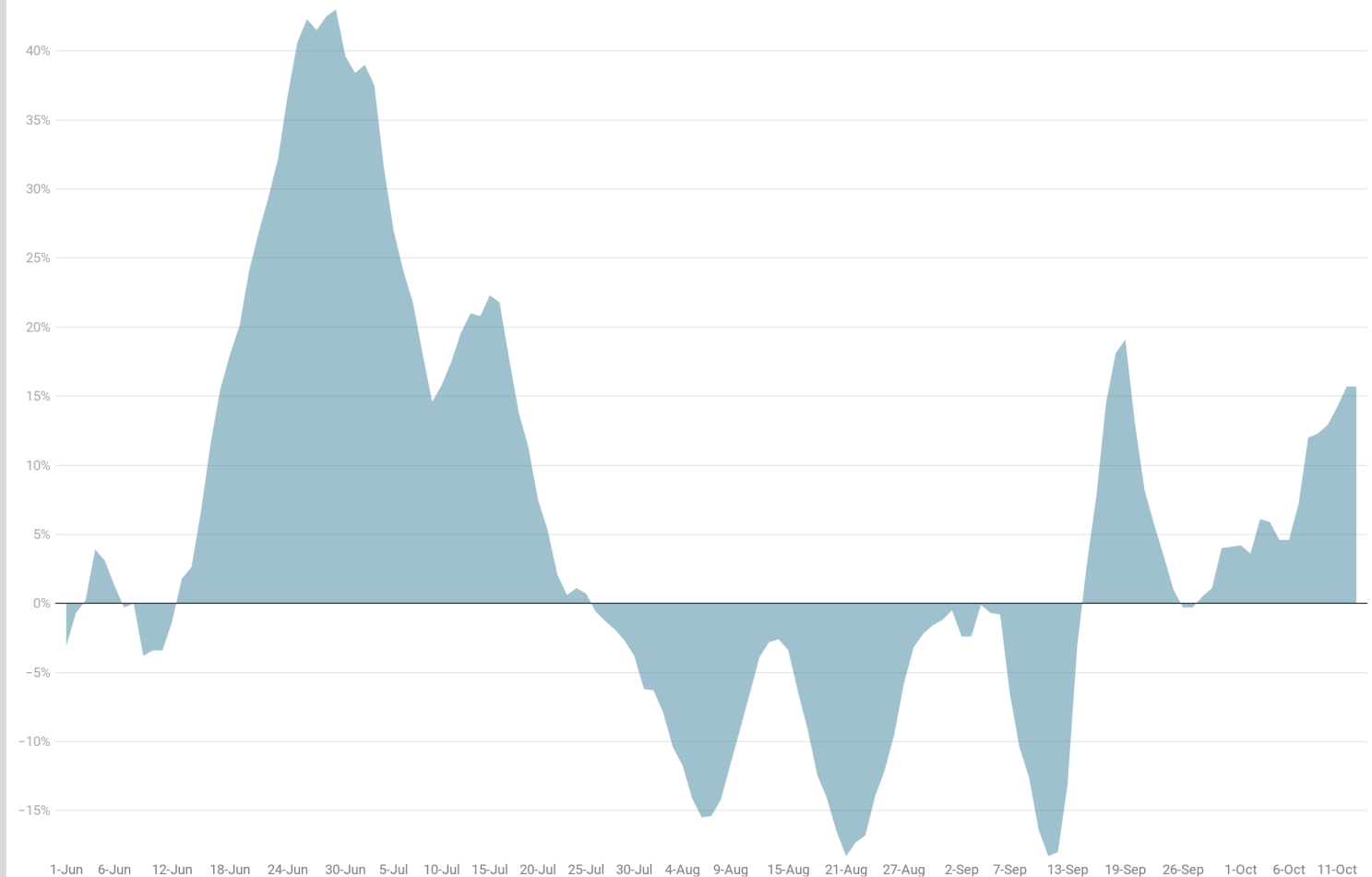
Following a seven-week period of decline, new cases began increasing on a week-over-week basis on September 15

Yesterday, this rate was up 15.7% on a week-over-week basis (same rate as yesterday)

This rate had previously peaked at 19.1% on September 19 and 43% on June 29

Week-Over-Week Change In New Cases

Through October 13



Health Industry Advisor LLC analysis

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

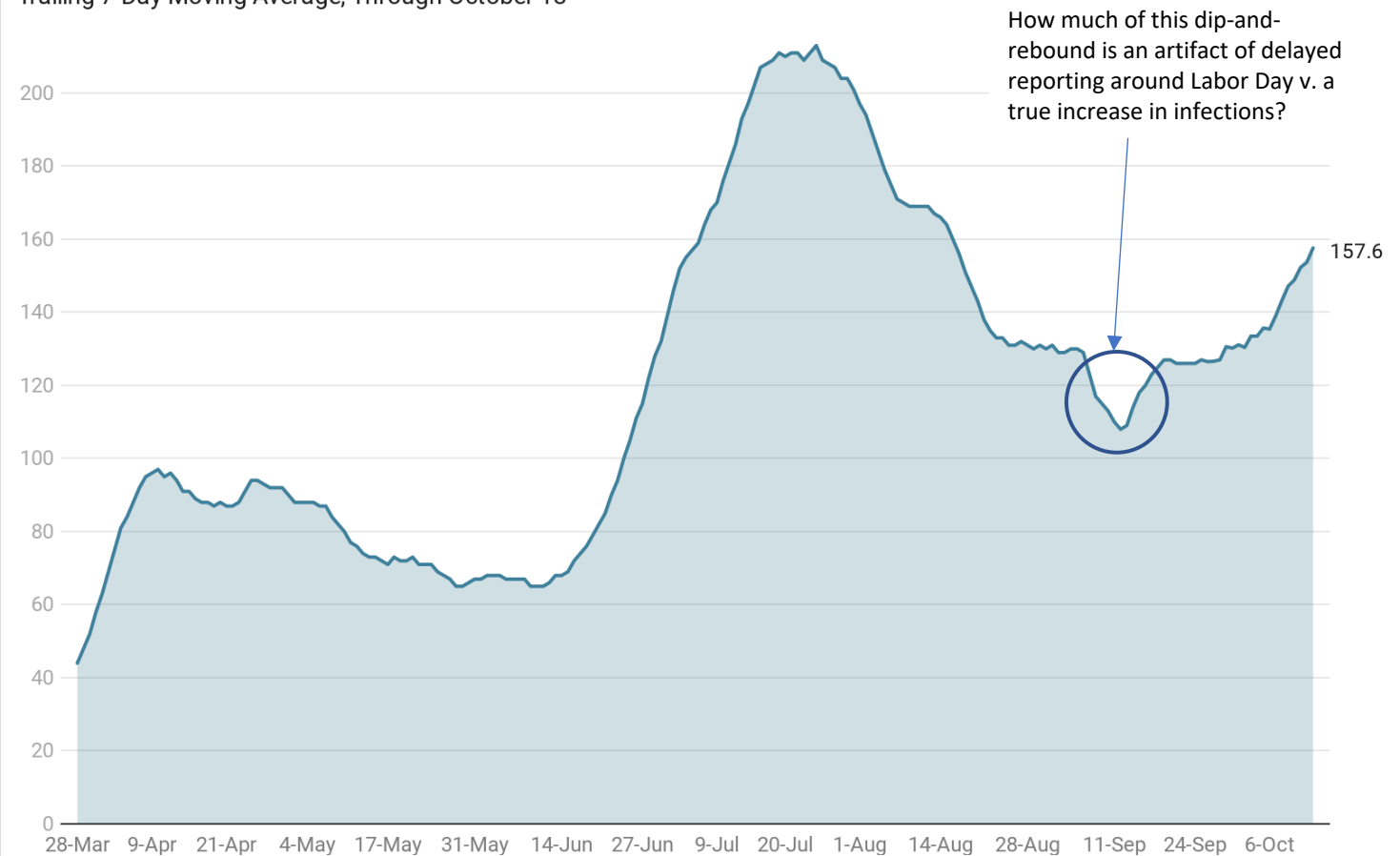
The rate of new infections per capita* in the U.S. Rose for the eighth consecutive day

This rate is the highest it has been since August 16

* - 7-day moving average basis

New Infections Per 1 Million Population - United States

Trailing 7-Day Moving Average, Through October 13



Health Industry Advisor LLC analysis

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

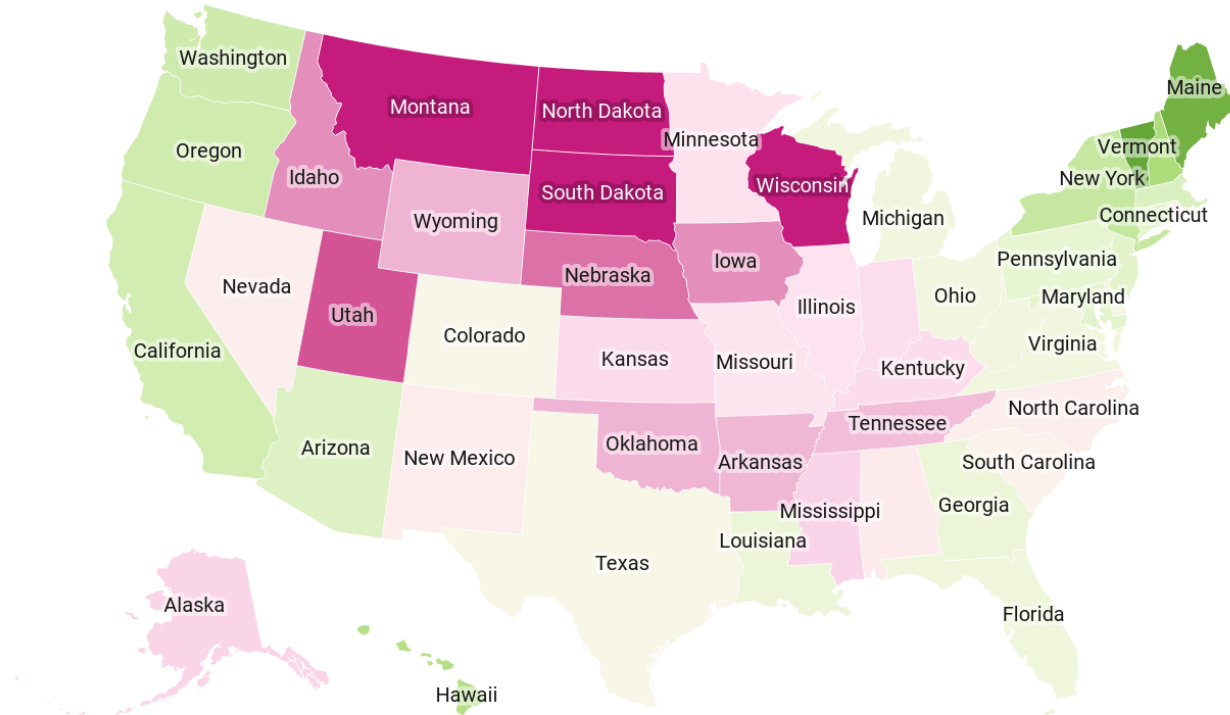
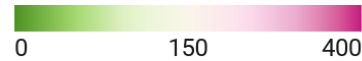
New daily infections rates are Montana, North Dakota and South Dakota are the highest experienced by any state since the pandemic began

Wisconsin's current rate is nearing New York's peak, which occurred in early April

Other states with high rates are concentrated in the Upper Midwest and Mountain States

New Infections / Million

7-Day Moving Average, As of October 13



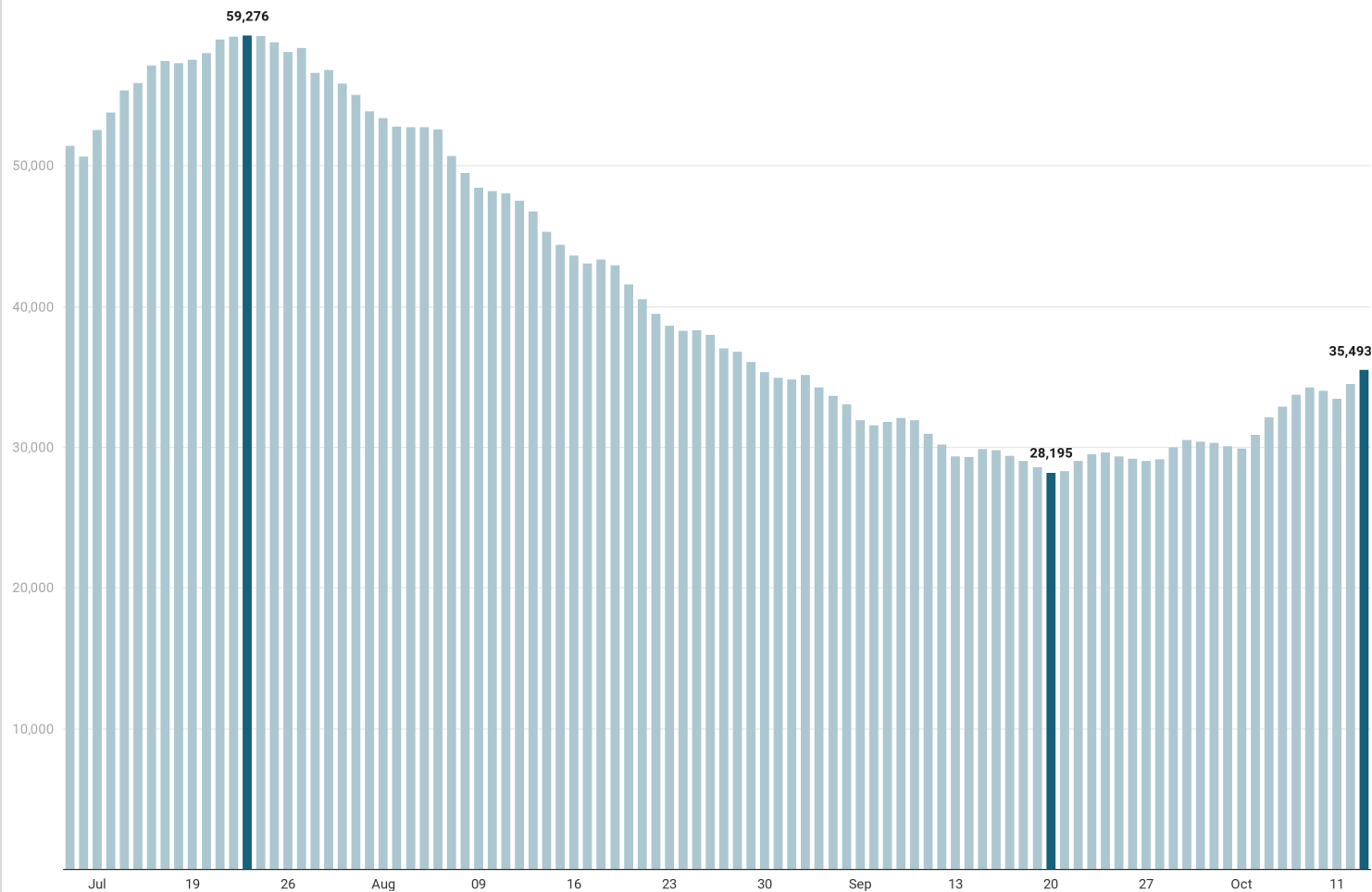
Map: Health Industry Advisor LLC • Created with Datawrapper

On a same-day, prior-week basis, inpatient Covid-19 census increased for the 20th consecutive day

This census has regained 23% of the reduction in realized from late-July to September 20

Hospital Census: COVID-19 Patients

As of October 13



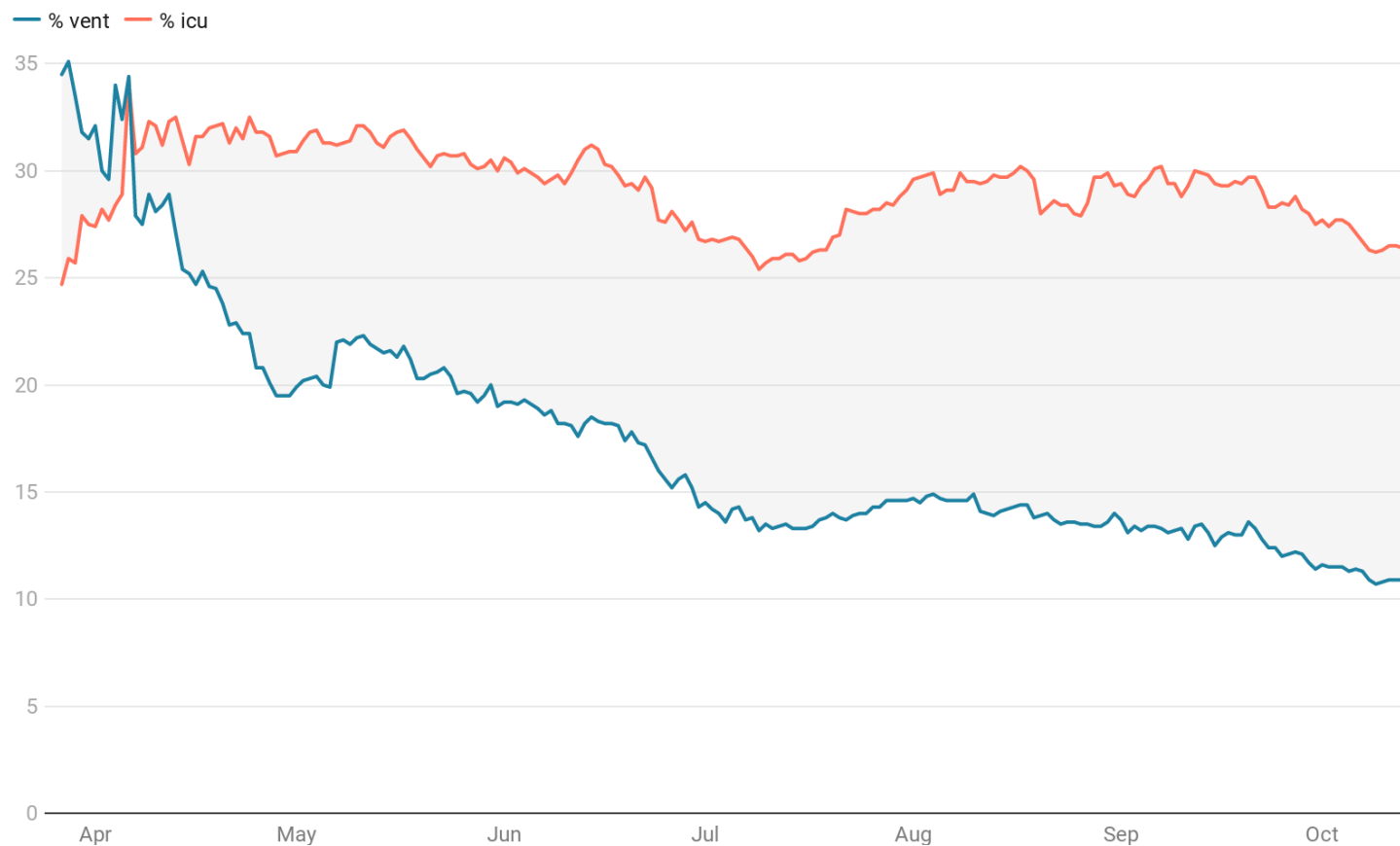
Florida data first available on July 10

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

During the rise in inpatient Covid-19 census, the mix of both ICU and ventilator patients has declined

Severity of Hospitalized Patients

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



Health Industry Advisor LLC analysis

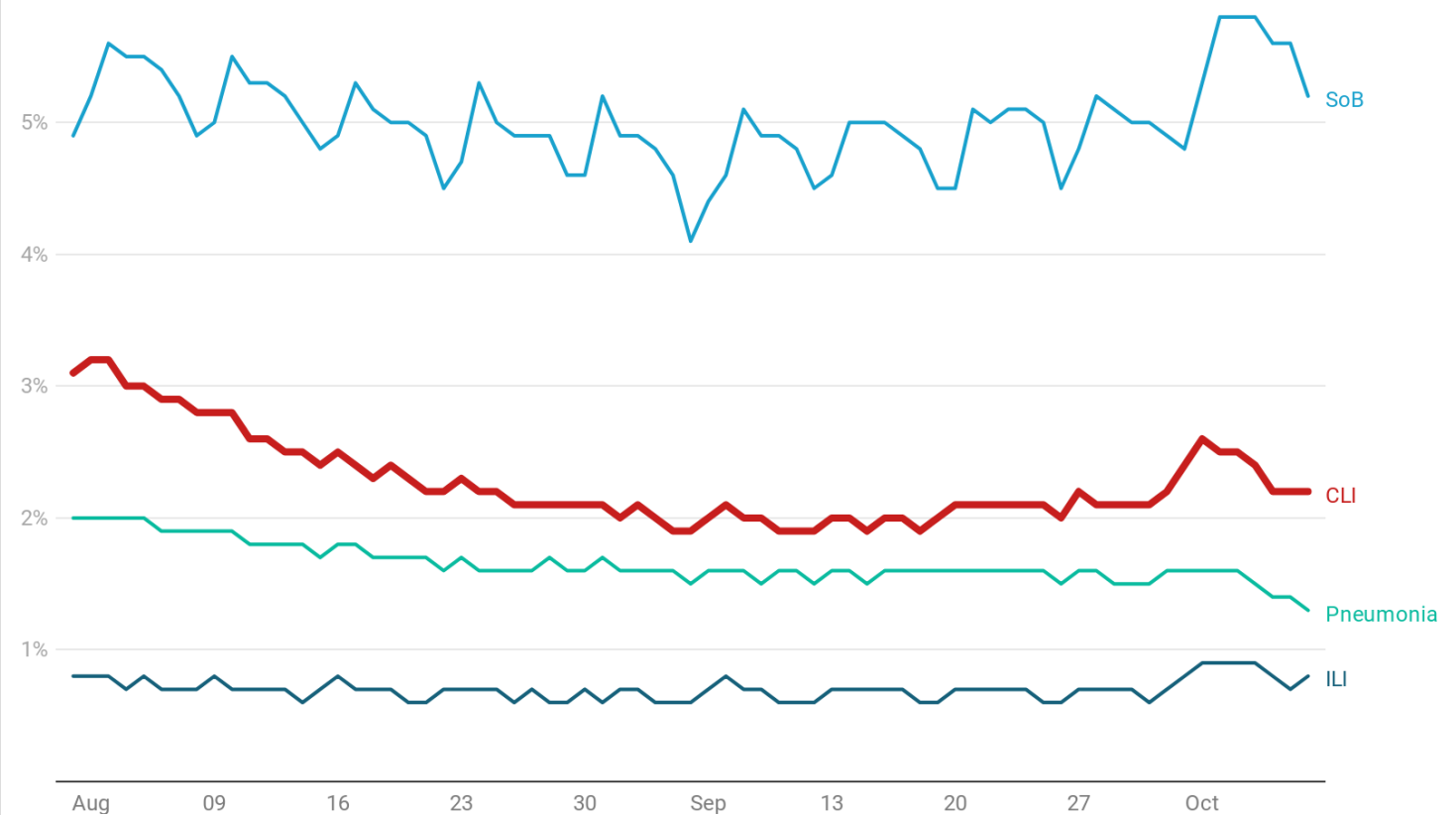
Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

The % of ER visits for COVID-19-like illnesses (CLI) has eased over the past five days; this rate remains less than ½ of what it was in mid-July

Although the flu season has officially begun, we have yet to observe any impact on the rate of influenza-like illness (ILI) visits to the ER

% of Emergency Department Visits for COVID-Like Illness (CLI), Influenza-Like Illness (ILI), Pneumonia & Shortness-of-Breath (SoB)

As of October 10



Health Industry Advisor LLC analysis

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

The 7-day average deaths per day rose modestly yesterday; Nonetheless, this rate has trended down since mid-September

Deaths Reported With Coronavirus in the U.S.

Trailing 7-Day Moving Average, As of October 13



Health Industry Advisor LLC analysis

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

There were more deaths reported yesterday than last Tuesday and the Tuesday following Labor Day

There were fewer deaths reported yesterday than on any other Tuesday since the end of June

Newly Reported Deaths

Through October 13

Tuesdays Highlighted

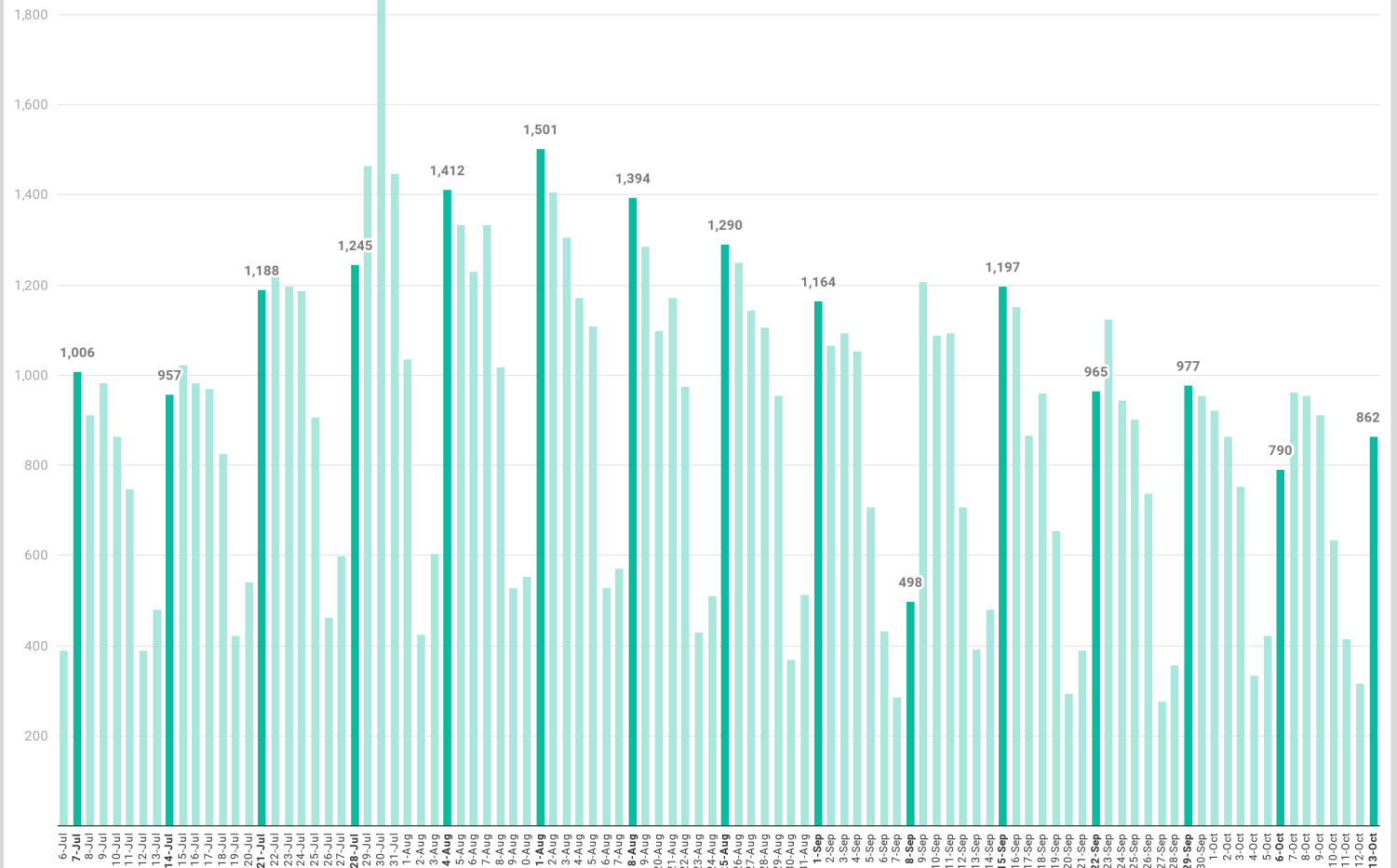


Chart: Health Industry Advisor LLC • Source: eorlometers.info • Created with Datawrapper

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>