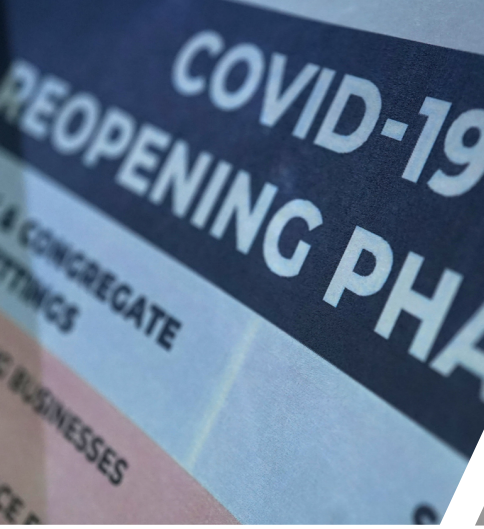

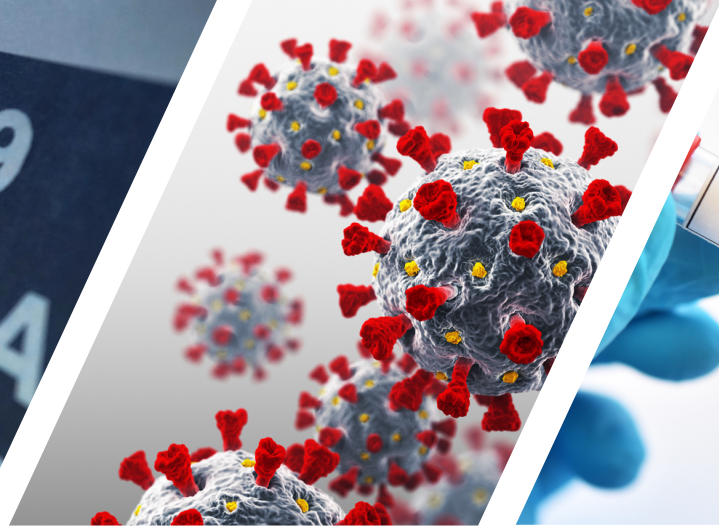

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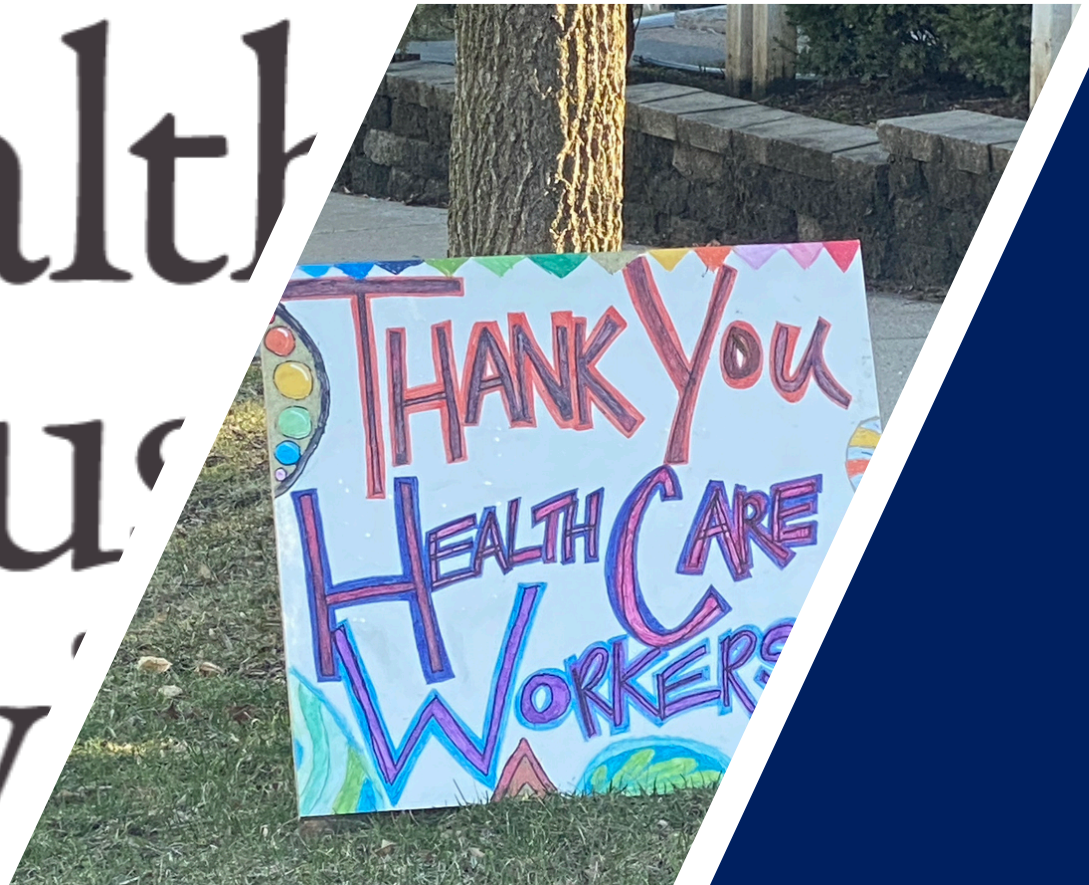


Issue # 168

Wednesday, September 23, 2020

COVID-19 Report

Highlights

- **The highest rate of infection spread worldwide continues to be in certain island, European and South American countries**: Aruba continues to experience the highest rate per capita. Among countries with > 1 million population, Israel, Bahrain, Spain, Costa Rica and Argentina lead this list
- **Testing has ramped back up in the United States**. The 7-day average rate as of yesterday was higher than any day since July 30. The important test-positive rate increased somewhat yesterday (7-day average) yet, remains just above the strict WHO target
- **New daily cases have increased 5.9% on a week-over-week basis**. The rate of increase, however, has slowed each of the past three days; there were fewer new cases yesterday than on any Tuesday in the past 14 weeks, except for Labor Day week

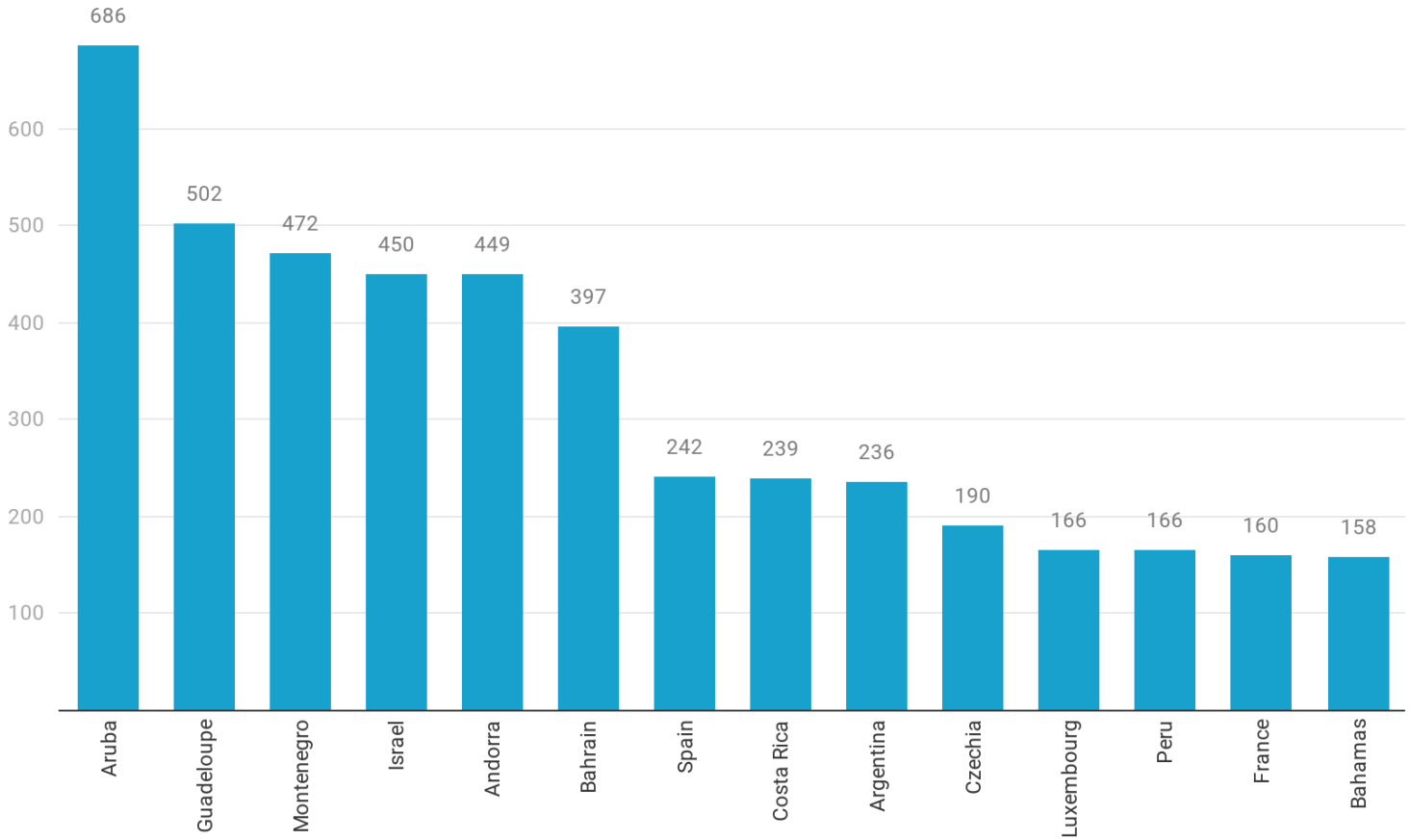
- **New daily infections per capita, on a 7-day average basis, have been essentially level for the past 4 days.** This rate had been increasing since Labor Day, so its encouraging to see it at least plateau.
- North and South Dakota, Wisconsin and Oklahoma continue to experience the highest rates in the country. Vermont's rate dropped again, to 4 new daily infections per million population
- **On a 7-day average basis, reported deaths with the virus have declined for seven consecutive days**; there were fewer deaths reported yesterday than on any other Tuesday in the past ten weeks, except for Labor Day week

Island Nations and countries in South America and Europe head the list of countries with the highest current infection rates*

* - 7-day moving average basis

New Daily Infections / Million Population

Trailing 7-Day Moving Average, As of September 22



Health Industry Advisor LLC analysis

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

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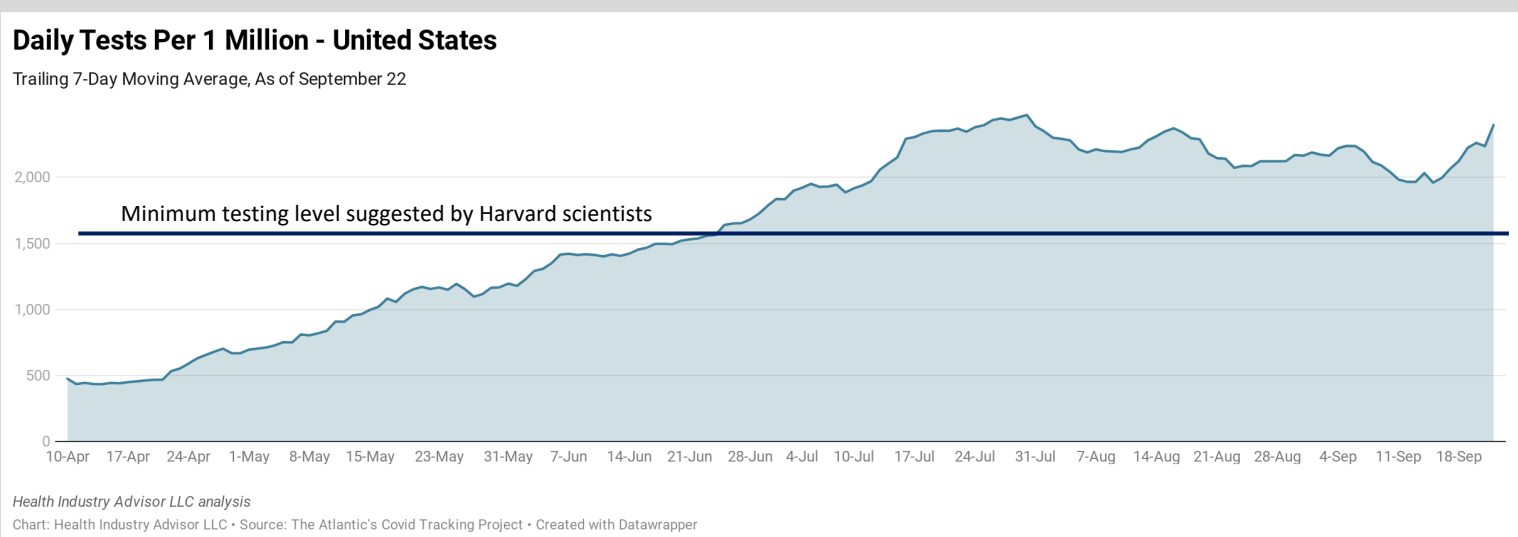
7-day average daily test volume has increased 26% week-over-week

This rate is higher than any point since July 30

7-day average test-positive rate increased yesterday; it remains just above the WHO target level



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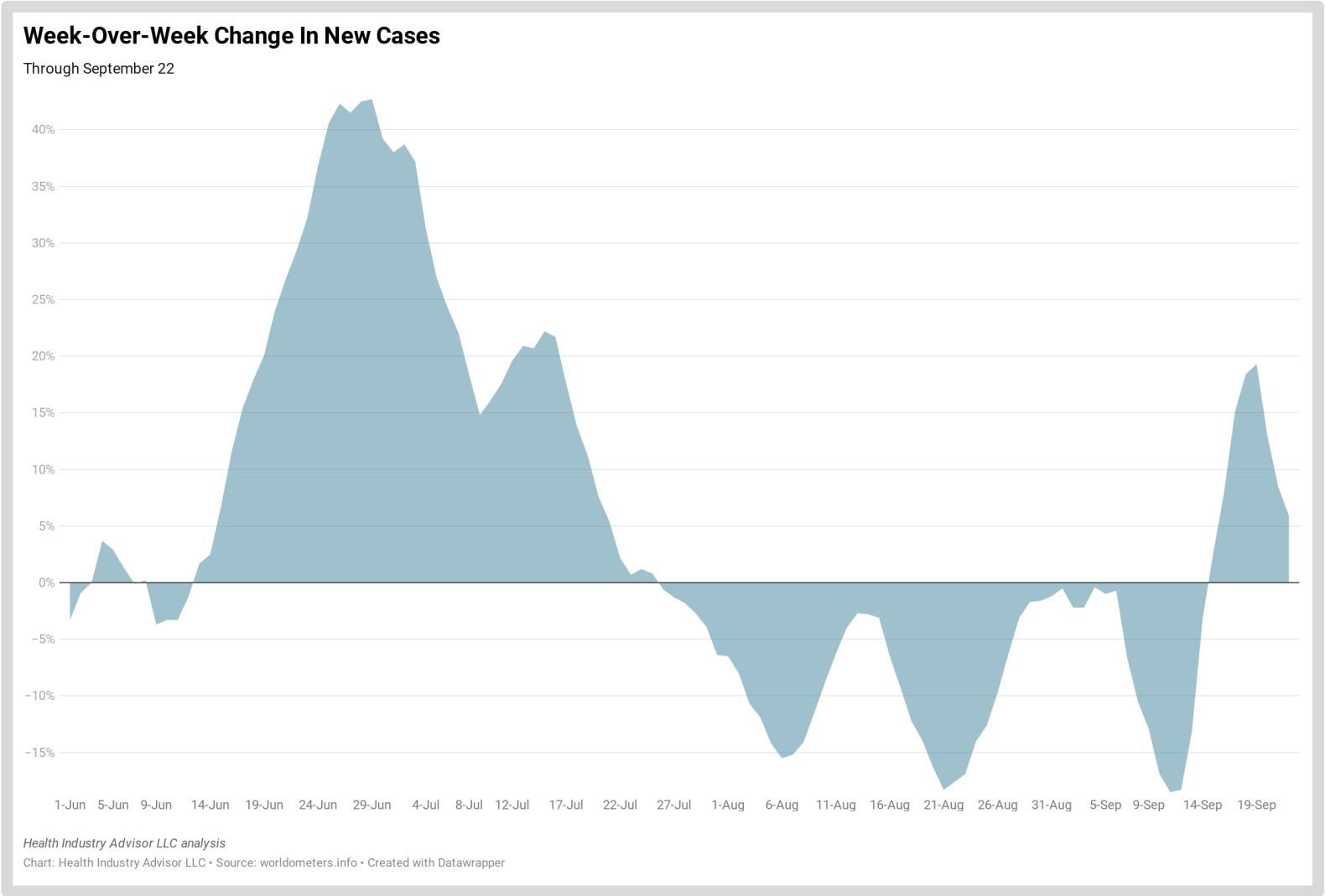
Following a seven-week period of decline, new cases began increasing on a week-over-week basis one week ago.

Yesterday, this rate was up 5.9% versus a week ago (although the rate of increase has declined each of the past three days)



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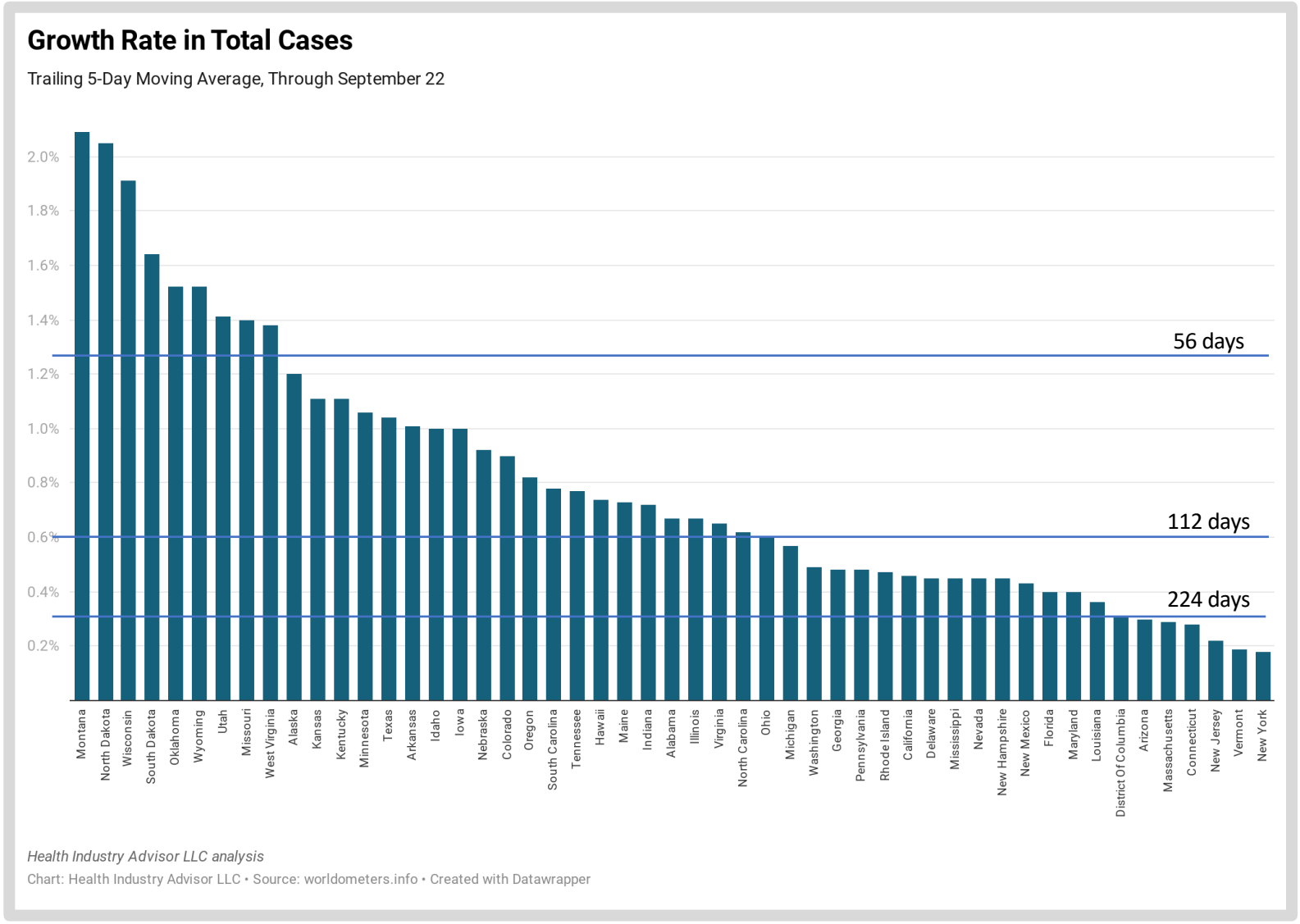
Case growth:

At current rates, cases are doubling every 33-34 days in Montana

Every 388-389 days in New York

Every 120-121 days for the United States overall



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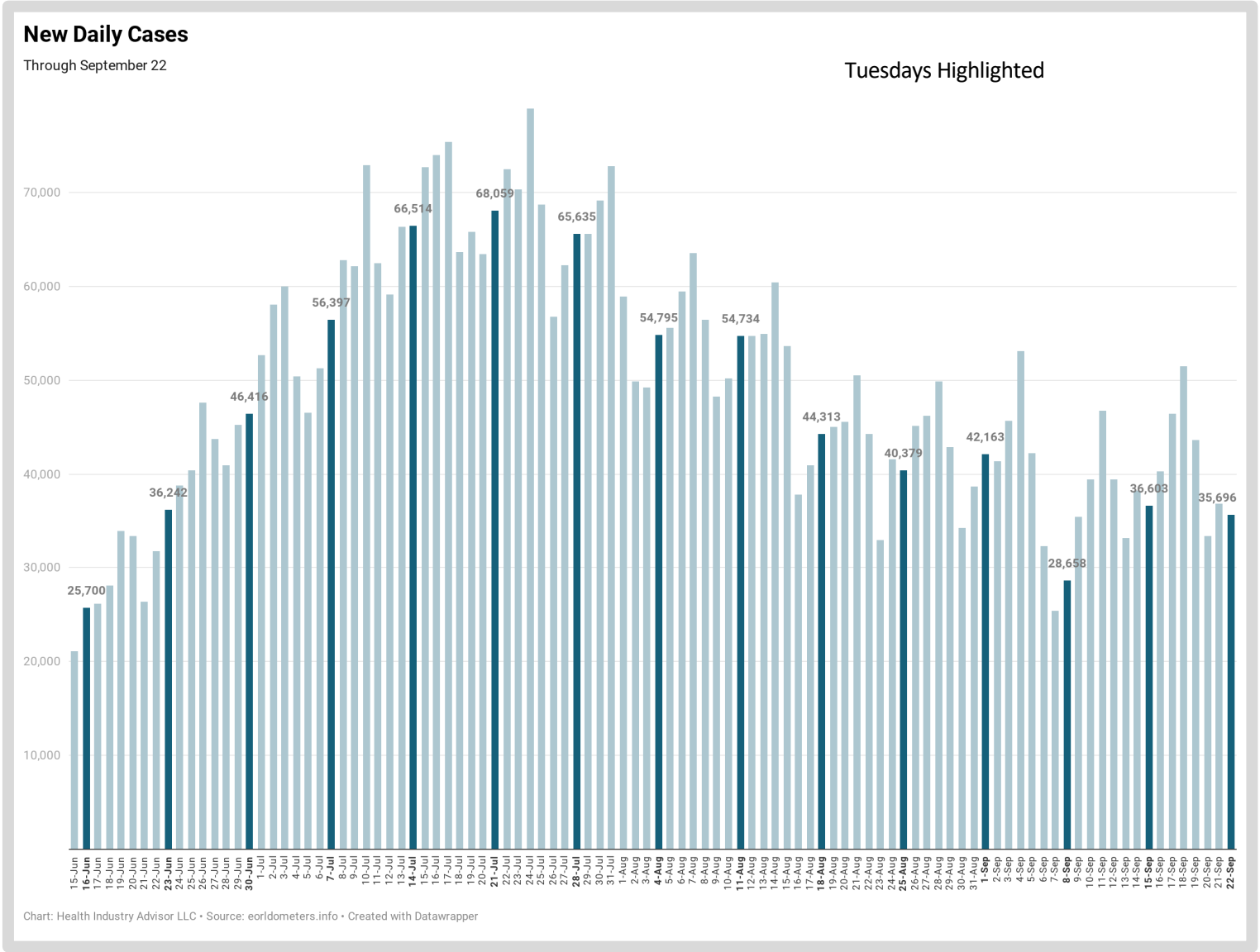
Except for Labor Day week, there were fewer new cases on Tuesday than any other Tuesday in the past 14 weeks



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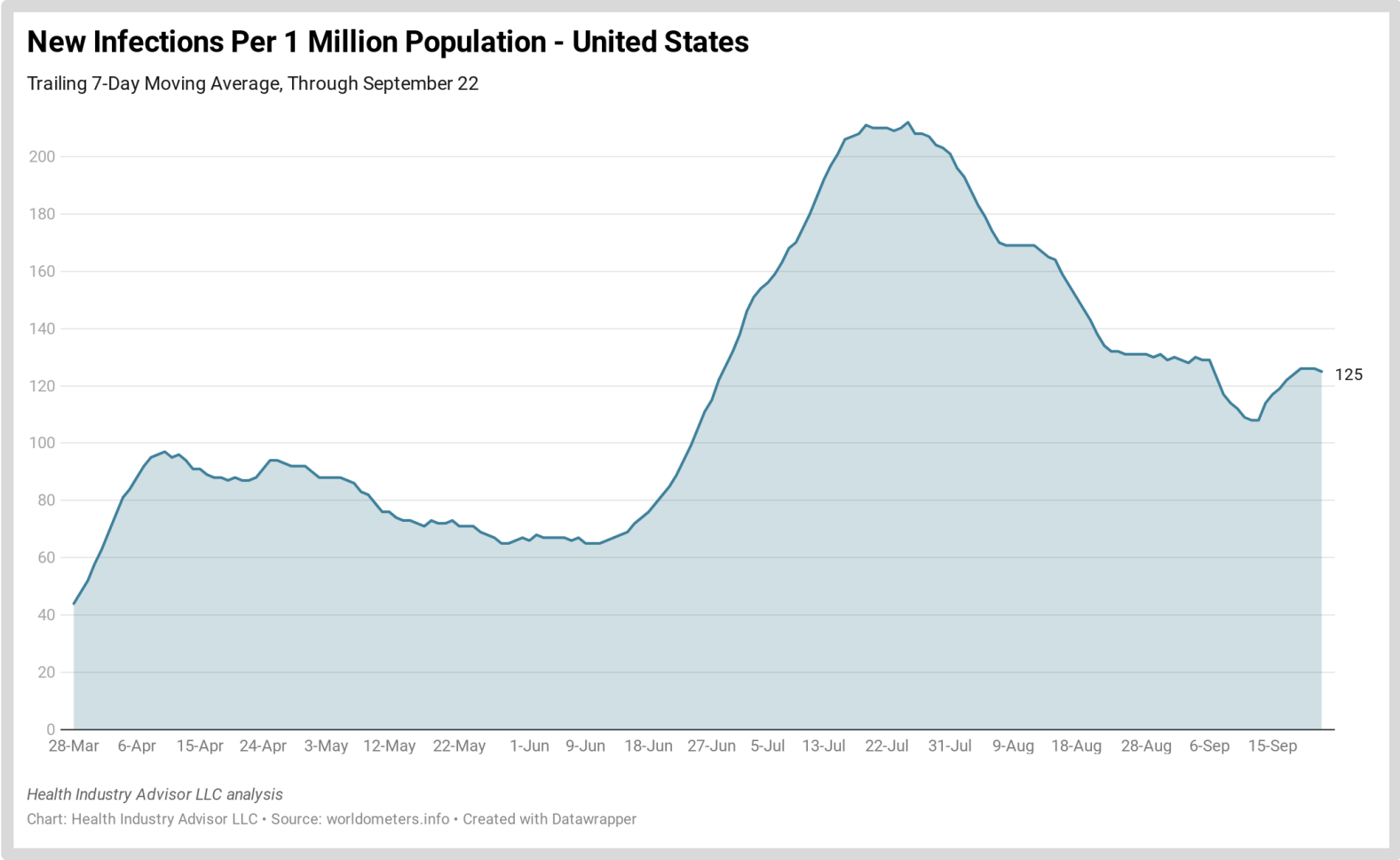
New infections per capita in the U.S.* bottomed-out on September 12 then increased through the end of last week

The current rate has been essentially flat for the past four days



* - 7-day moving average basis

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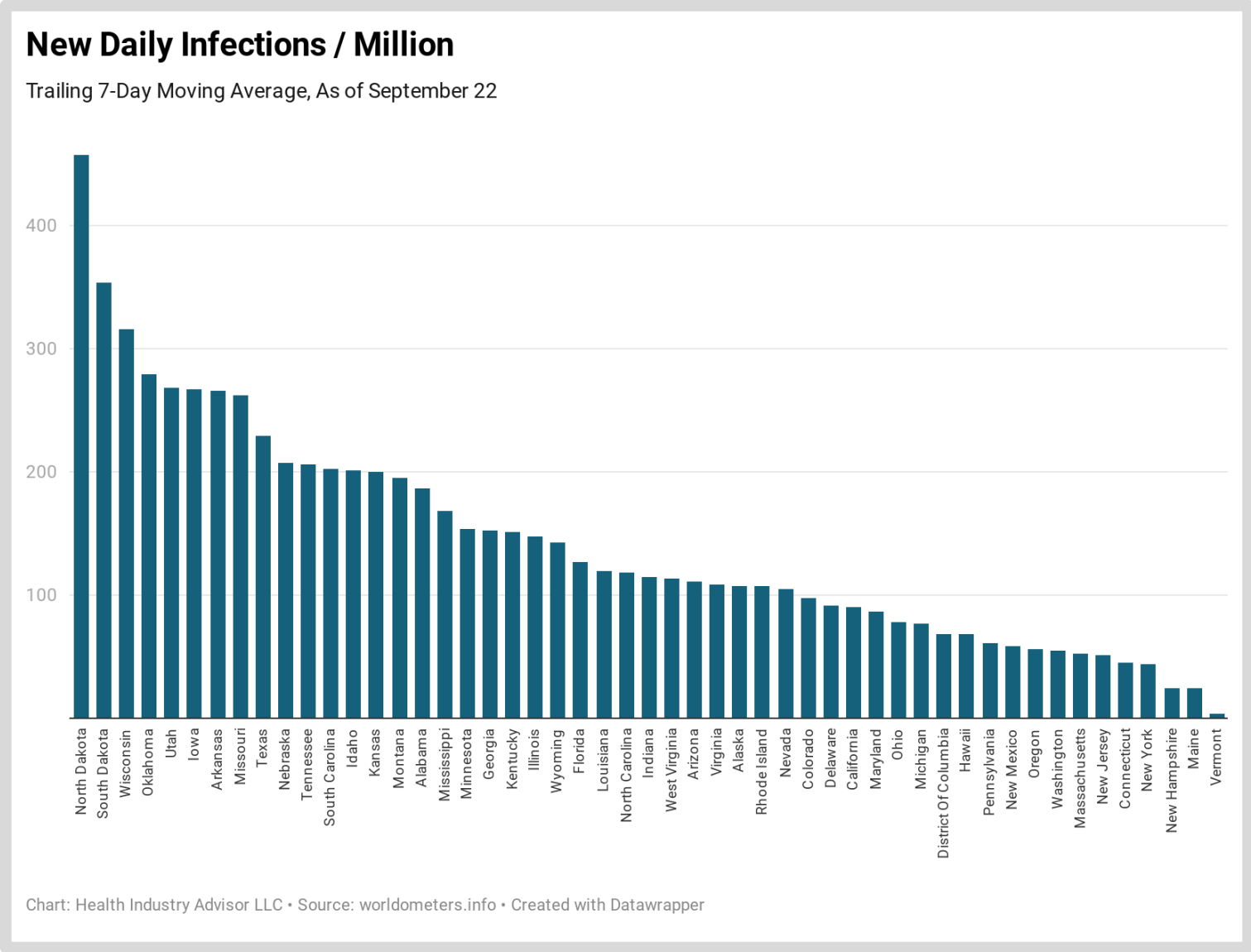
Infection rates* are highest in the North and South Dakota, Wisconsin and Oklahoma

Fourteen states experienced rates > 200 per million

Twelve states and the District of Columbia experienced rates < 75

Vermont's rate is down to 4 new daily infections per million



* - 7-day moving average basis

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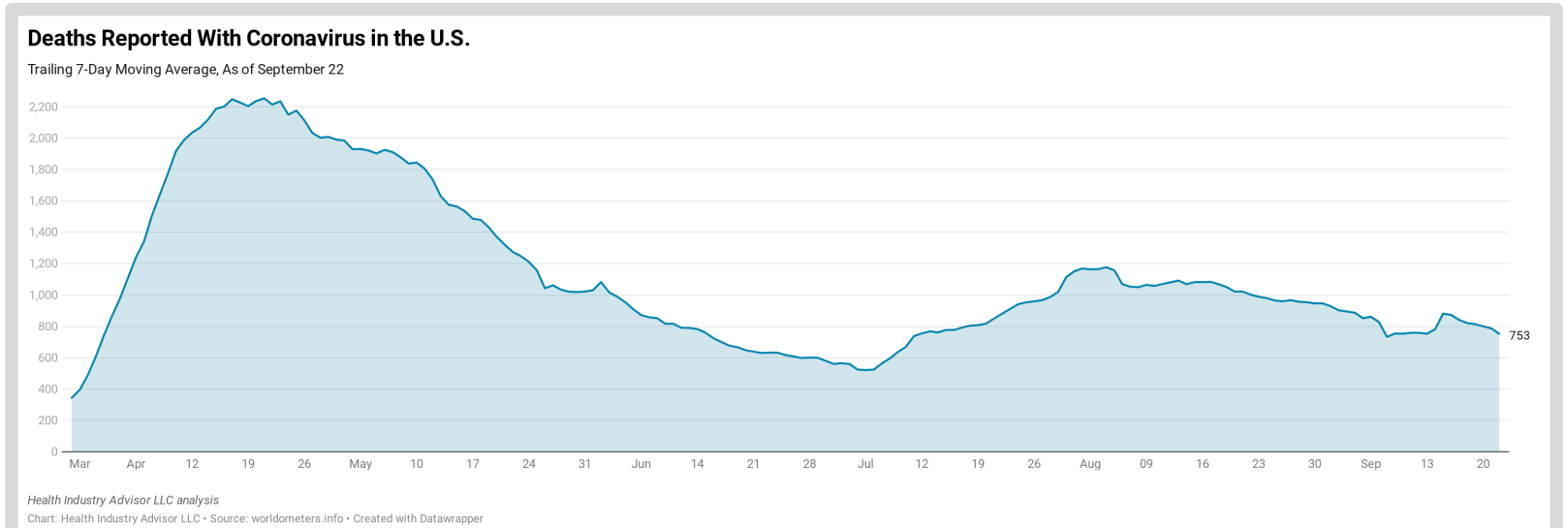
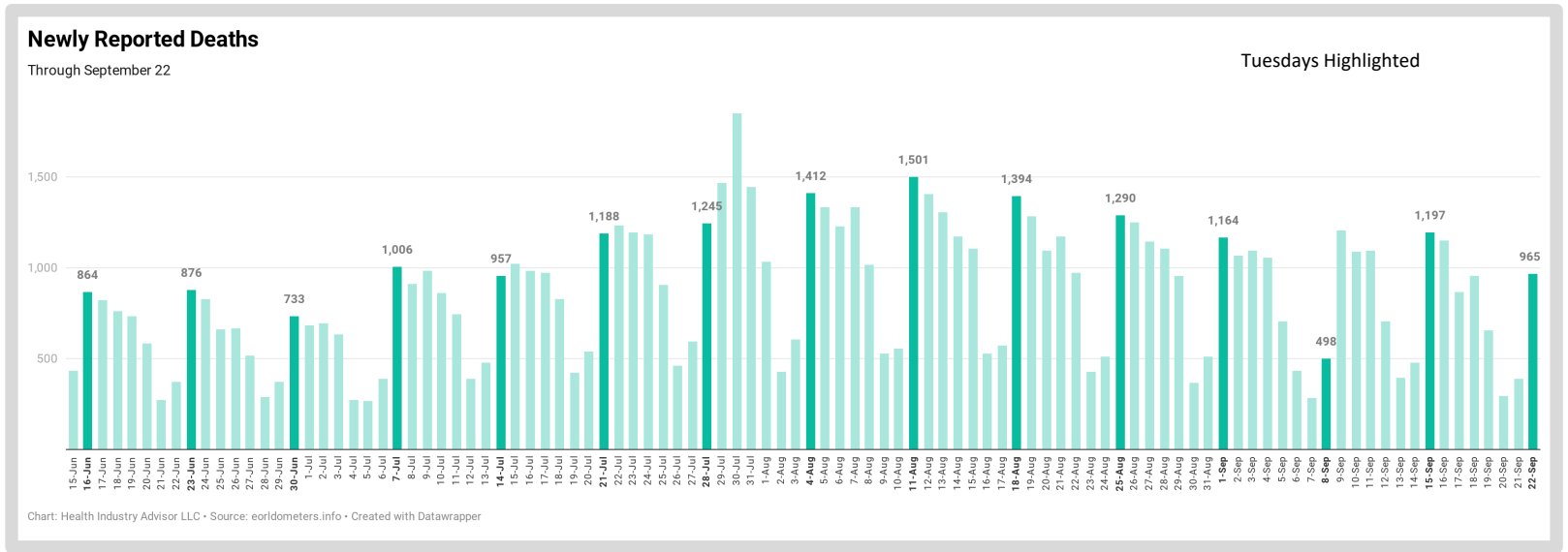
7-day average daily deaths have declined on seven consecutive days

Except for Labor Day week, there were fewer deaths reported on Tuesday than any other Tuesday in the past 10 weeks





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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