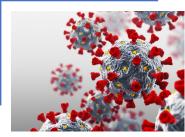


"Strategic Advice in an Era of Unprecedented Change"







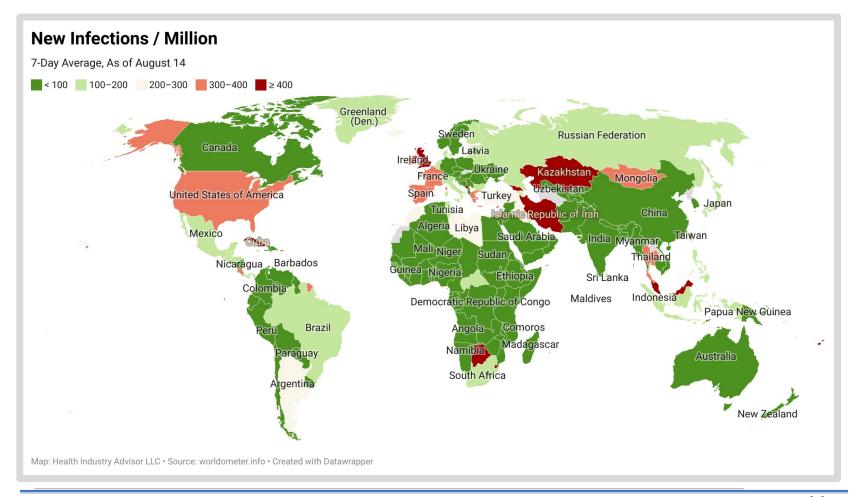


Covid-19 "Vital Signs"

Issue # 343 August 16, 2021

Newly Detected Cases / Million

Among countries with population greater than 1 million, Georgia, Botswana and Cuba posted the highest infection rates per capita last week. Israel had the 5th highest, United Kingdom 8th highest and the United States the 10th highest.

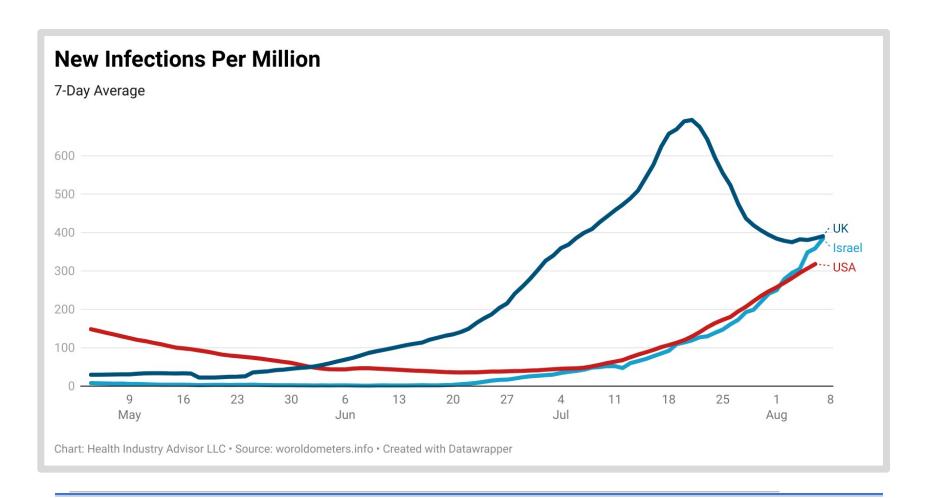






Infection Rate Trends – Israel, United Kingdom & the United States

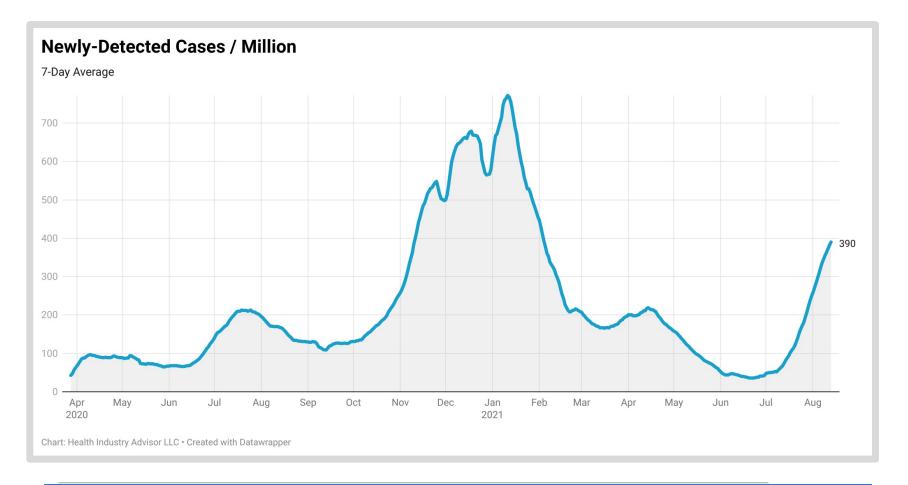
Infection rates in the United Kingdom have increased slightly during the past two weeks. Israel's infection rate has increased rapidly.





Newly Detected Cases

The infection rate in the United States has surged since late June. This rate exceeds that posted during the first two waves yet, is half the peak posted during the third wave.

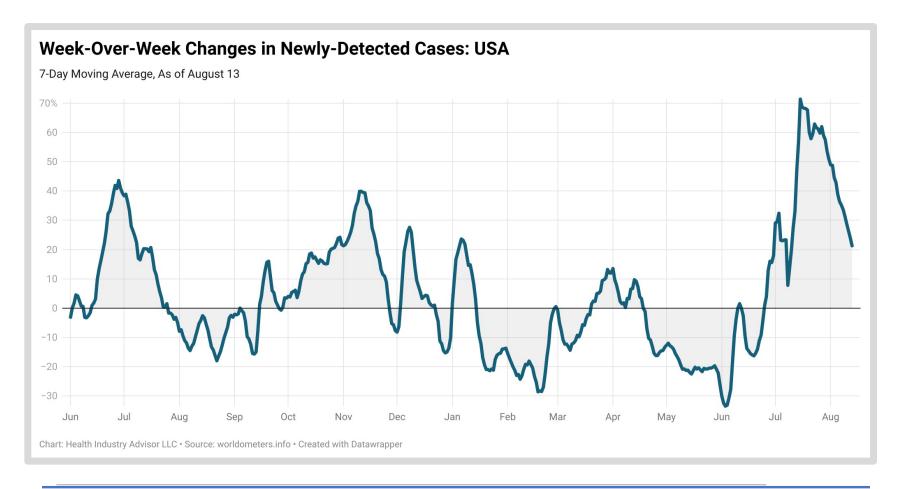






Weekly Change in Newly Detected Cases

Despite the nearly two-month long infection surge in the United States, the rate of increase in new cases has declined over the last three weeks.

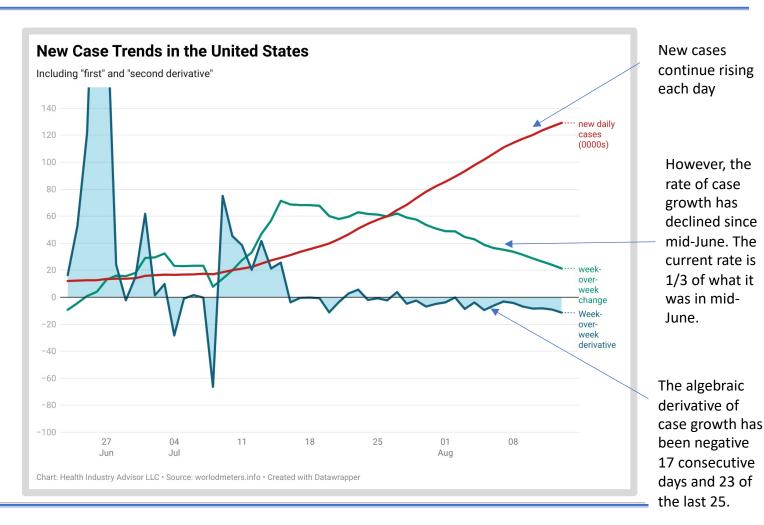




New Case Trends

A closer inspection of new case trends suggest that case growth rate is slowing each day. Should this continue, new cases should begin to decline soon.

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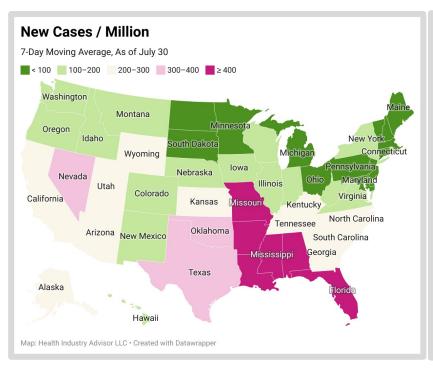


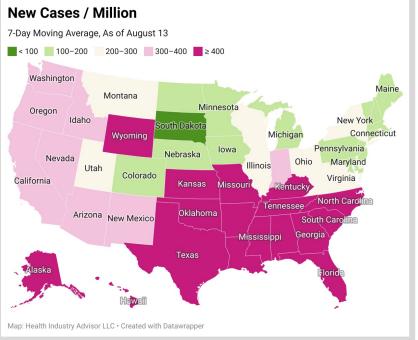
New Cases / Million

Infection rates remain highest in the South, followed by the West.

July 30

August 13

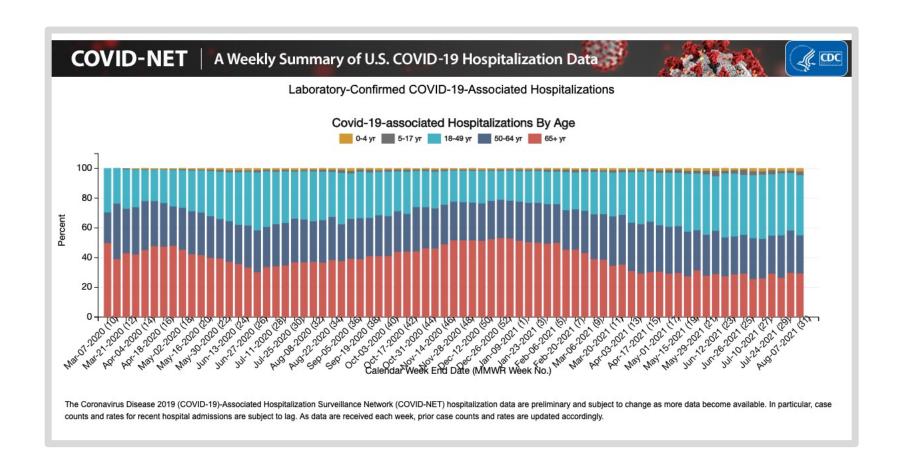






Covid-19 Hospitalizations By Age

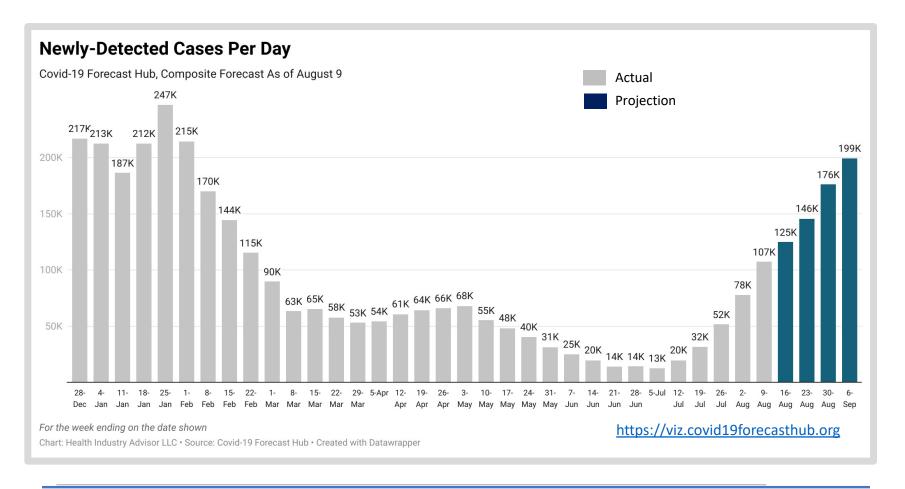
Hospitalized Covid patients have trended younger since the beginning of the year. In January, half of the Covid patients were 65 years or older. Now, three-in-ten are seniors. Four-in-ten now are 18-49 years old — twice the rate in January.





Covid-19 Cases: Ensemble Forecast

The ensemble forecast published a week ago suggests that infections will continue surging. In this forecast, infections double in a month

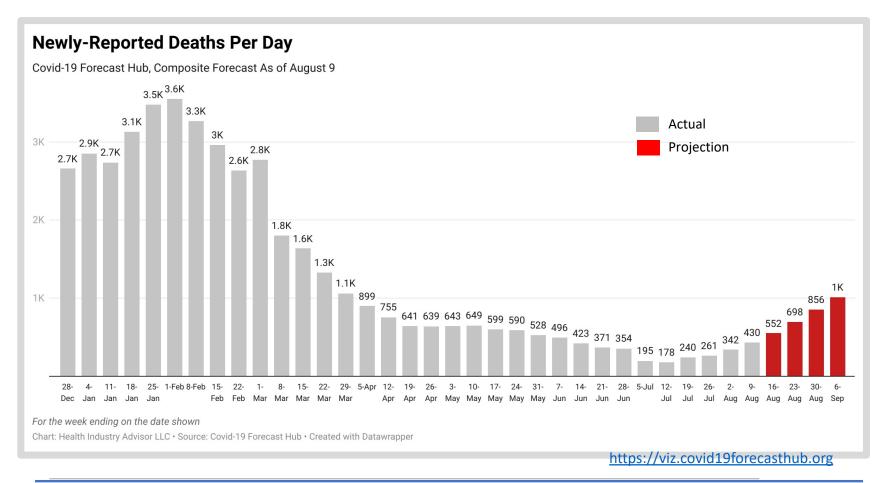






Death Projections – Ensemble Forecast

The ensemble forecast also hints at a increasing Covid deaths over the next four weeks.

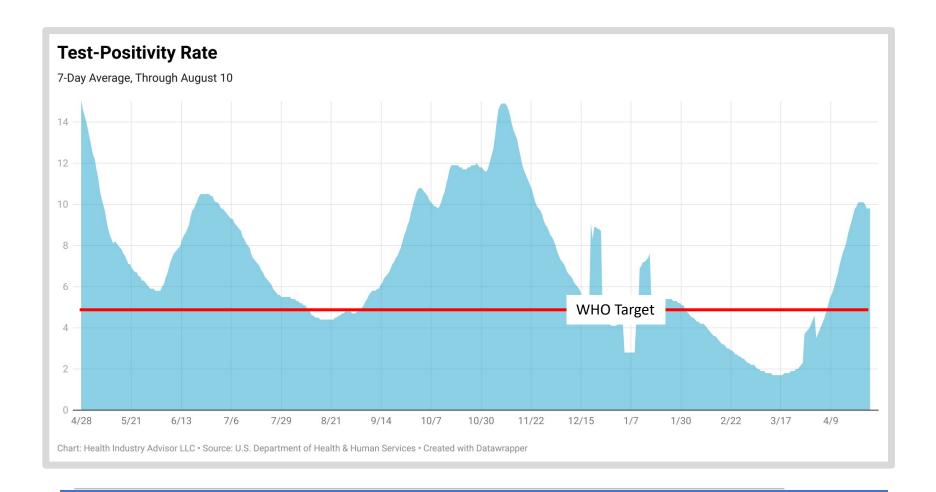






Test-Positivity Rate

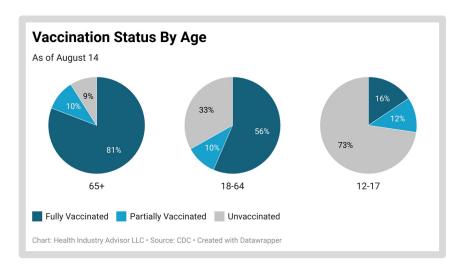
Throughout the current infection surge, more and more tests came back positive for Covid. However, in the last week, this test-positive rate stabilized and is now declining.

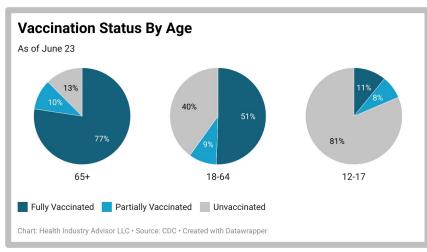


Vaccination Status By Age

Covid-19 "Vital Signs"

The current infection surge has prompted more people to seek vaccination. For example, among 18–64-year-olds, the full vaccination rate jumped, from 51% to 56%. Among 12–17-year-olds, the rate remains low at 18% but, is improved from 11%.

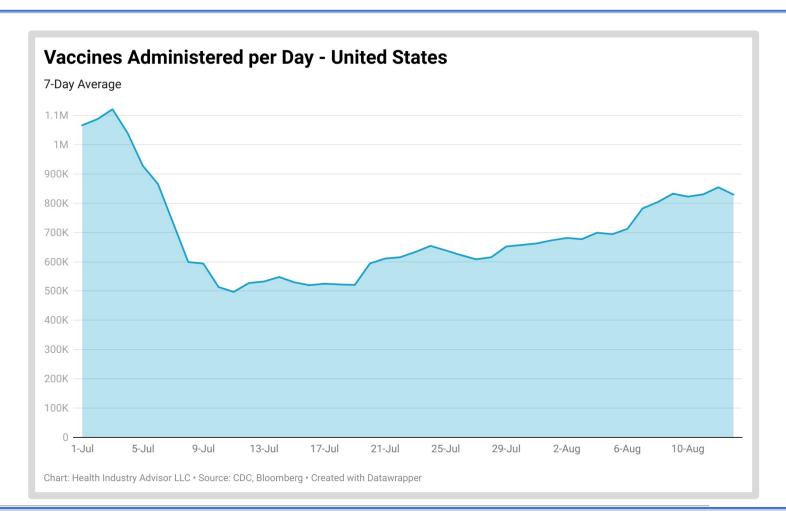






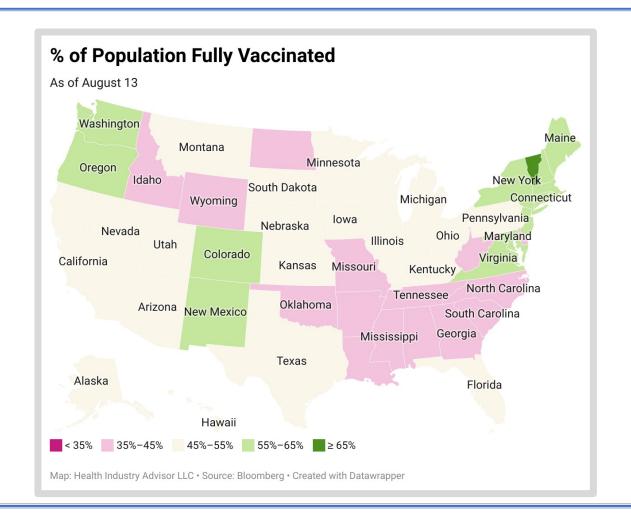
Pace of Vaccinations

Daily vaccinations have trended higher since early July.



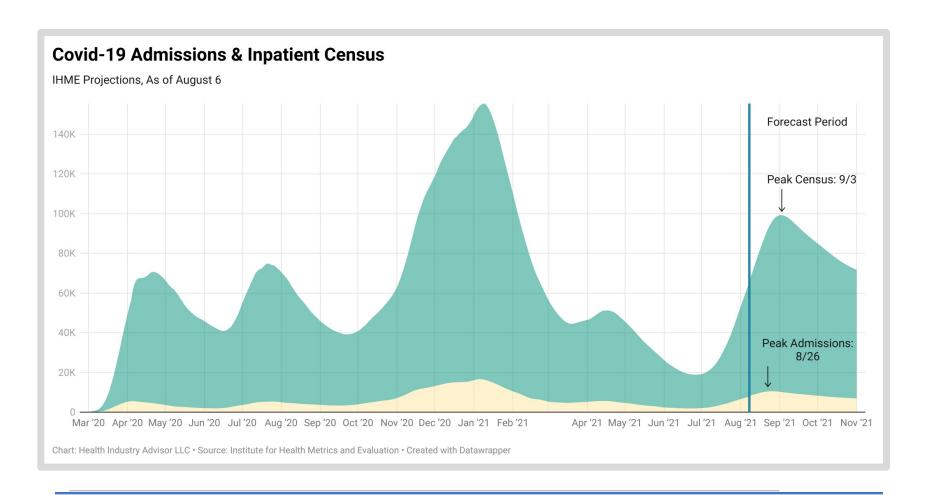
Vaccine Tracking - % of Adult Population Vaccinated

Vermont is setting the pace for the country in full vaccination rates. Parts of the South and the Mountain States are lagging the rest of the country.



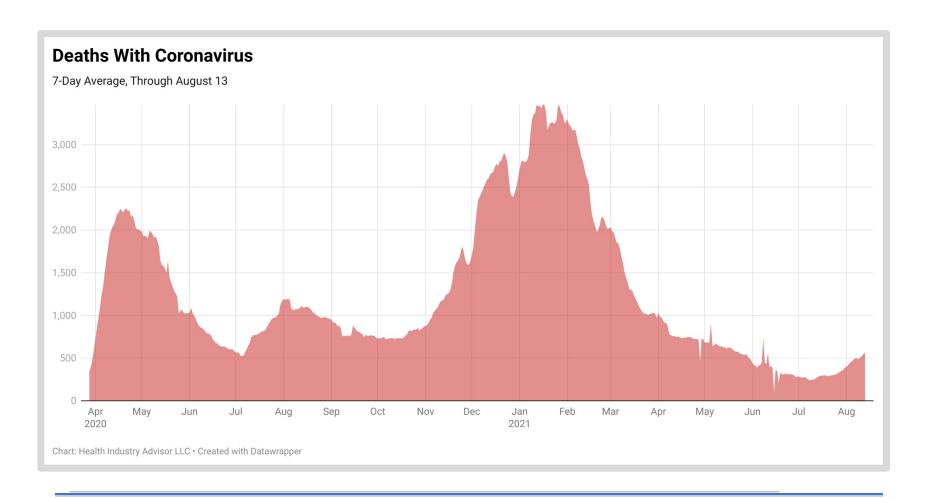
Covid-19 Admissions & Inpatient Census

IHME latest forecast (August 6) predicted that Covid admissions would peak as soon as next week. Covid hospital census is expected to peak a week later.



Deaths With Coronavirus

Deaths with Covid continue to increase. However, the current rate remains lower than it has been for most of the pandemic.





Sources

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

- U.S. Department of Health & Human Services: https://healthdata.gov/dataset/covid-19-estimated-patient-impact-and-hospital-capacity-state
- U.S. Department of Health & Human Services https://beta.healthdata.gov/dataset/COVID-19-Diagnostic-Laboratory-Testing-PCR-Testing/j8mb-icvb
- Worldometers.info: https://www.worldometers.info/coronavirus/
- Centers for Disease Control and Prevention, National, Regional, and State Level Outpatient Illness and Viral Surveillance https://gis.cdc.gov/grasp/fluview/fluportaldashboard.html
- Centers for Disease Control and Prevention, COVID-19 Laboratory-Confirmed Hospitalizations https://gis.cdc.gov/grasp/COVIDNet/COVID19 5.html
- Centers for Disease Control and Prevention, COVID Data Tracker https://www.cdc.gov/covid-data-tracker/index.html#mobility
- Centers for Disease Control and Prevention, Vaccines, https://www.cdc.gov/coronavirus/2019-ncov/vaccines/index.html
- 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
- Our World In Data, https://ourworldindata.org/covid-vaccinations
- Covid-19 Forecast Hub, https://viz.covid19forecasthub.org
- Yale School of Public Health & Harvard TH Chan School of Public Health, https://covidestim.org
- Bloomberg Vaccine Trackers, https://www.bloomberg.com/graphics/covid-vaccine-tracker-global-distribution/?sref=Z0b6TmH

