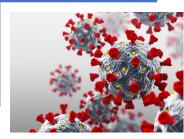


"Strategic Advice in an Era of Unprecedented Change"









Covid-19 "Vital Signs"

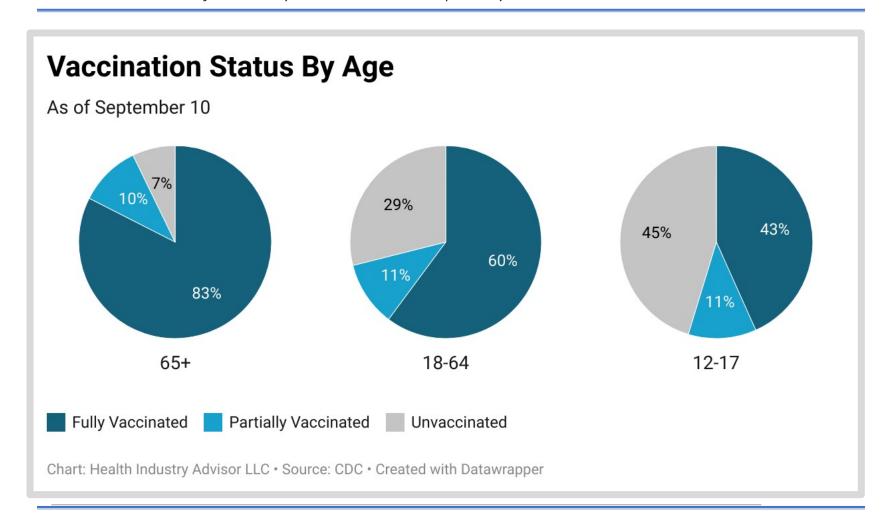
Issue # 347 September 13, 2021

Vaccination Status By Age – United States

Covid-19 "Vital Signs"

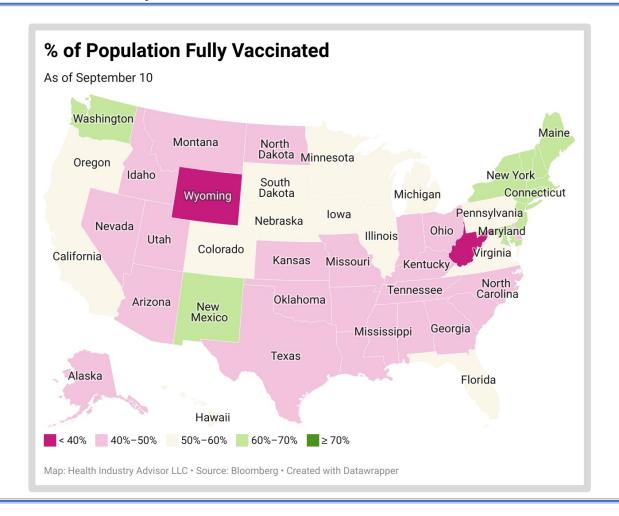
425,000 12-to-17-year-olds reached full vaccination status over the last week. 175,000 18-to-64-year-olds did too.

As of this past weekend, more than 60% of 18-to-64-year-olds are fully vaccinated. 55% of 12-to-17-year-olds are at least partially vaccinated.



Vaccine Tracking - % of Population Vaccinated

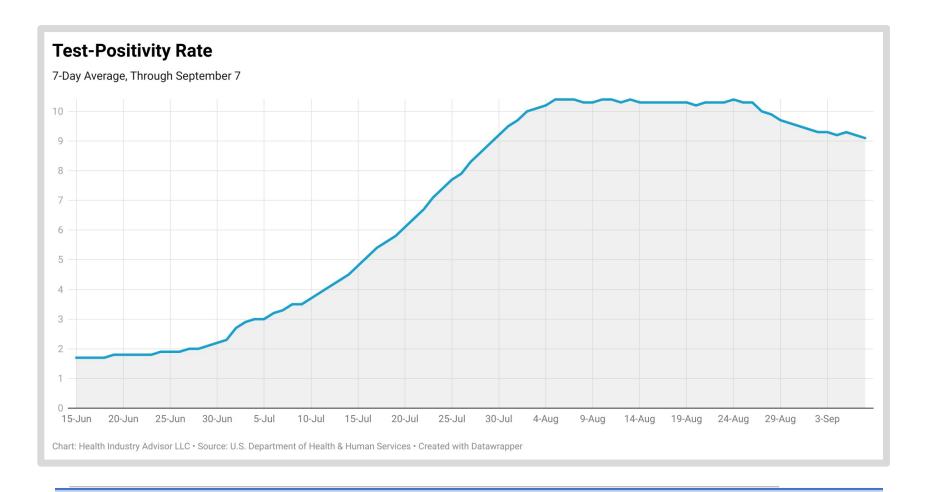
West Virginia and Wyoming trail the rest of the country in vaccinations: fewer than four of ten residents of these states are fully vaccinated. Connecticut, Maine, Massachusetts, and Vermont lead the nation in this effort: more than two-thirds of residents of these states are immunized.





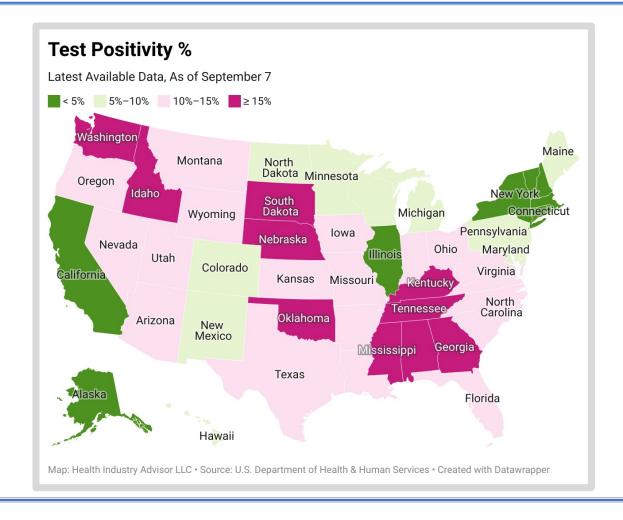
Test-Positive Rate

The test-positive rate declined steadily over the past two weeks.



7-Day Average Test-Positivity %

Test-positive rates in nine states are below the desired 5% level: Alaska, California, Connecticut, Illinois, Massachusetts, New Hampshire, New York, Rhode Island, and Vermont. Rates in ten states exceed 15%: Alabama, Georgia, Idaho, Kentucky, Mississippi, Nebraska, Oklahoma, South Dakota, Tennessee, and Washington.

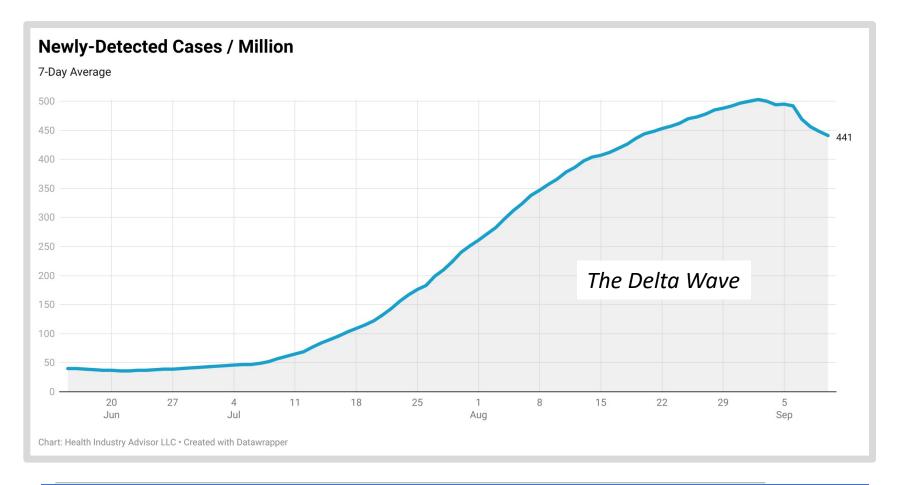






Newly Detected Cases

The 7-day new daily case rate peaked on September 2. This rate dropped 12% over the past eight days.

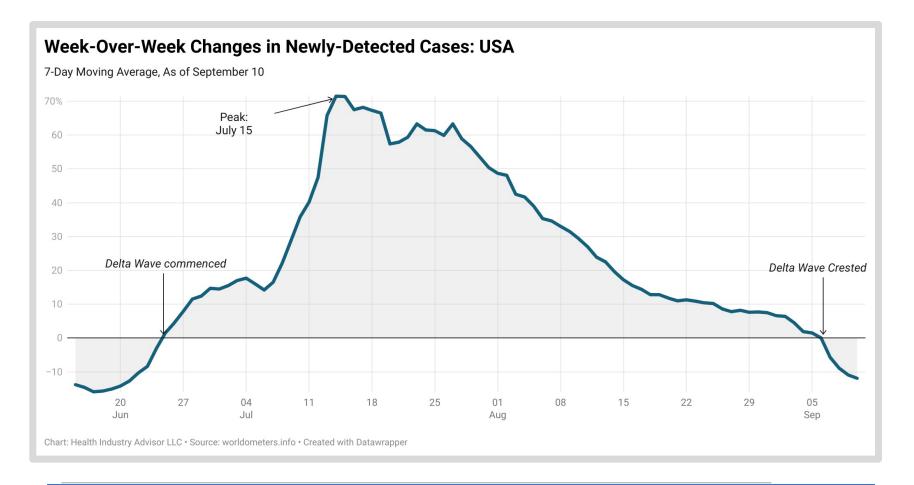






Weekly Change in Newly Detected Cases

On July 15, new cases increased 71% versus the prior week. This week-over-week change has declined since that day. Now, new cases are dropping week-over-week.

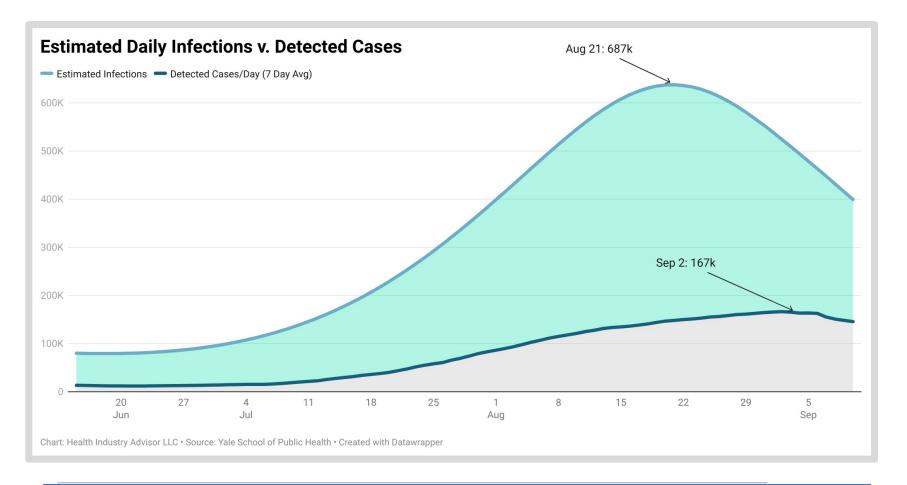






Estimated Daily Infections & New Case Rates

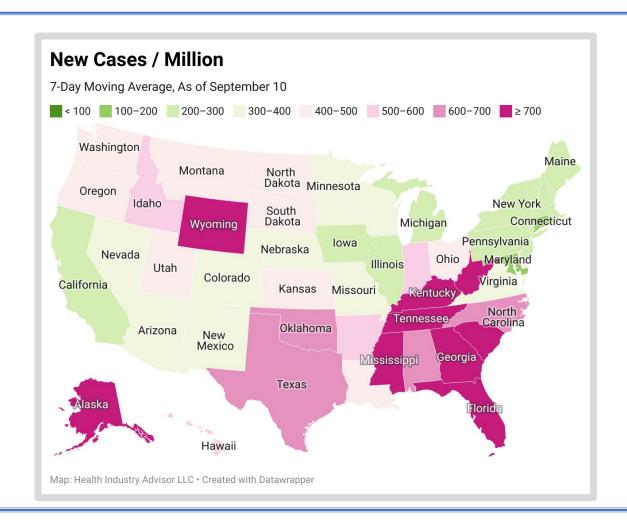
Based on reported cases, the Delta wave crested n September 2. Using estimated infections, the wave peaked on August 24. (Note: there is a built-in delay between the presumed infection date and the date a case is tested and then reported.





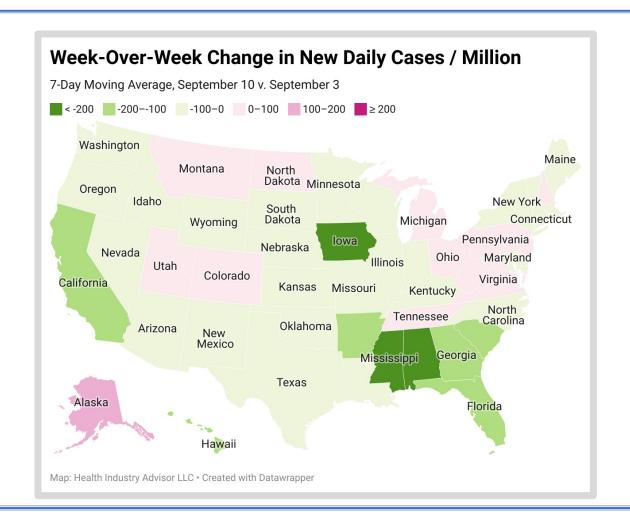
New Daily Cases per Capita By State

New case rates remain highest in the Southeast, as well as Alaska and Wyoming. Rates are lowest in the Northeast, Midwest and California.



Week-Over-Week Change in New Daily Cases per Capita

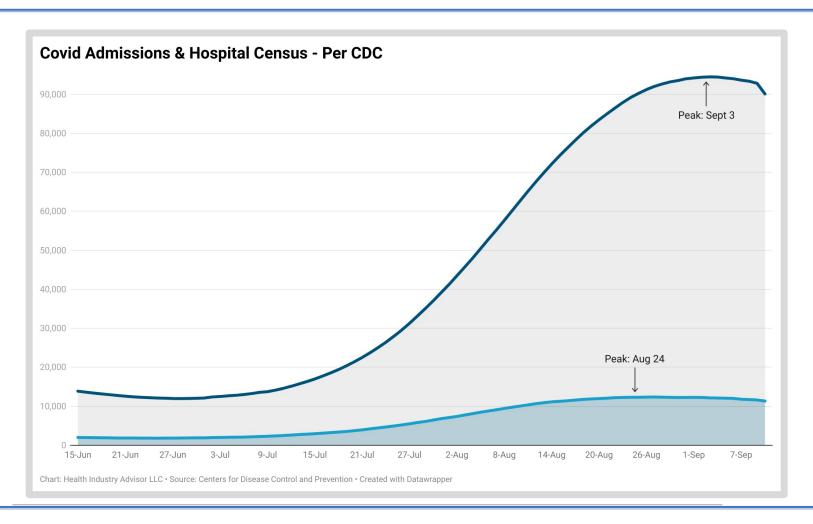
Alabama, Iowa, and Mississippi posted sharp declines in new case rates compared to a week ago. Arkansas, California, Florida, Georgia, Hawaii and South Carolina noted large drops too. Alaska experienced the largest week-over-week increase.





Covid Hospital Admissions and Census – Per CDC

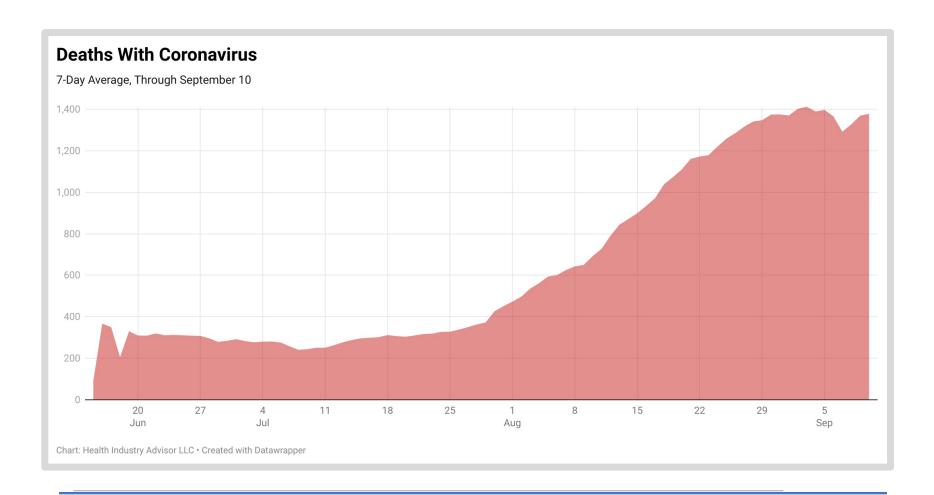
Covid hospital admissions peaked on August 24; Covid census peaked on September 3.





Deaths with Covid-19

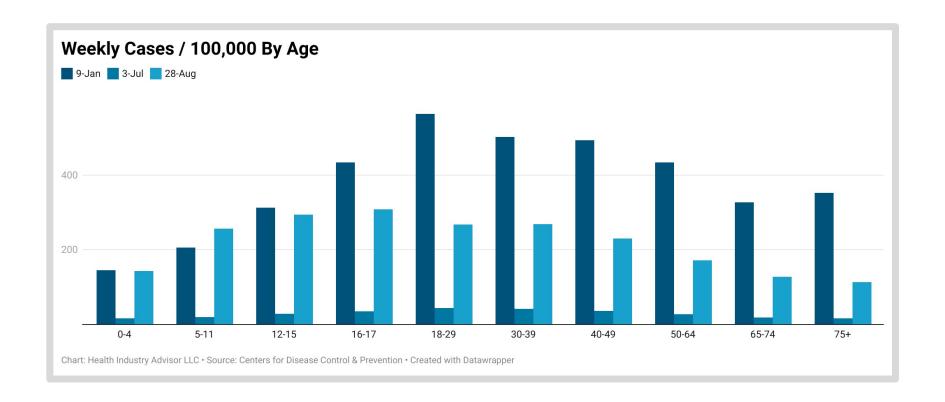
Deaths with Covid-19 seemed to have stabilized, if not peaked.



Cases Per Capita By Age Group

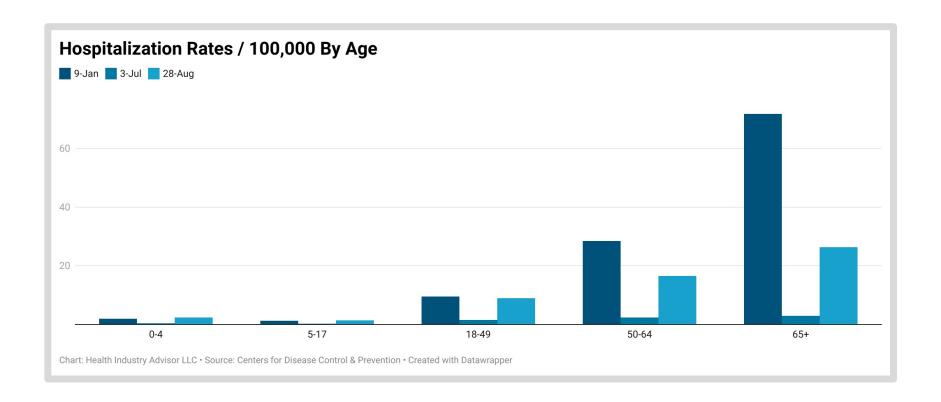
Covid-19 "Vital Signs"

Only children 11 years and younger suffered more infections per capita at the peak of the Delta wave than at the peak of the Fall/Winter 2020 peak. Infection rates among persons 50 and older are 30-to-40% lower than last Fall/Winter. Persons 12-to-17 years old are reporting the highest infection rates per capita currently.



Covid Hospital Admissions Per Capita By Age Group

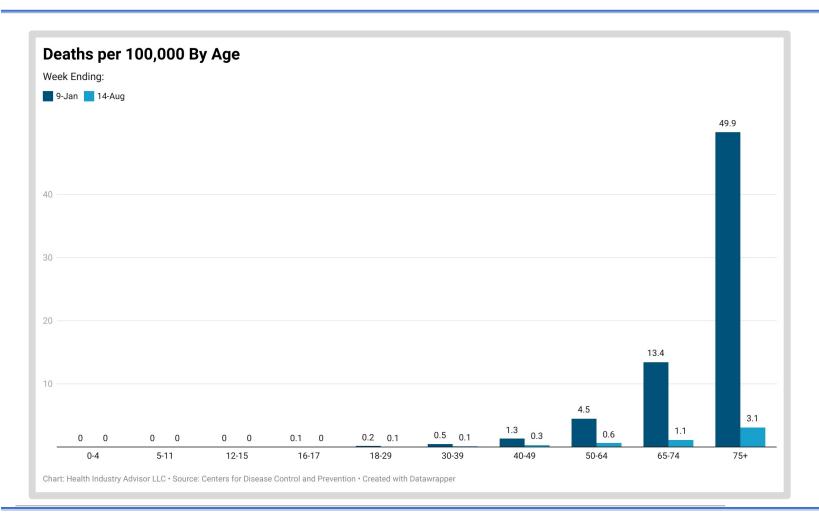
Hospital admission rates rise with age. However, admission rates among the elderly have dropped dramatically since the vaccine effort began. Indeed, seniors were 63% less likely to be hospitalized at the peak of the Delta wave, compared to the peak of the Fall/Winter 2020 wave.





Covid Deaths Per Capita By Age Group

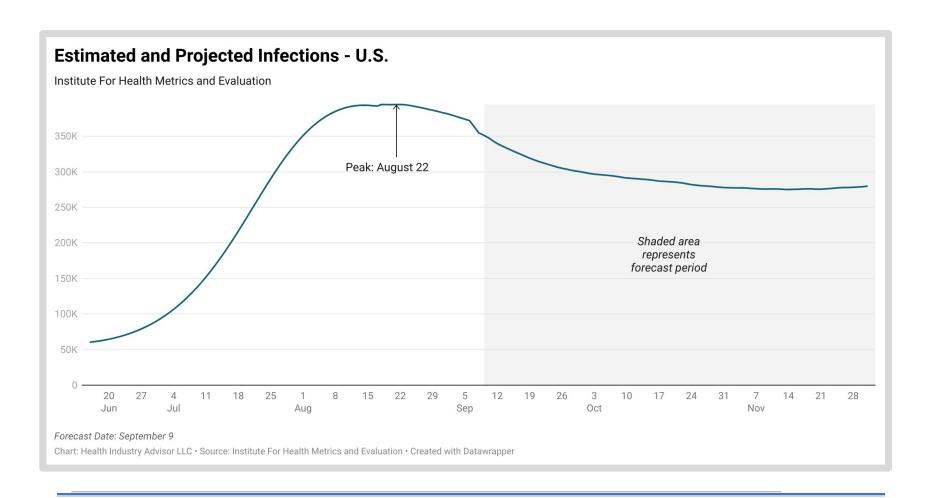
Death rates rise also with age. Like hospital admissions, death rates among the elderly have dropped dramatically since the vaccine effort began.





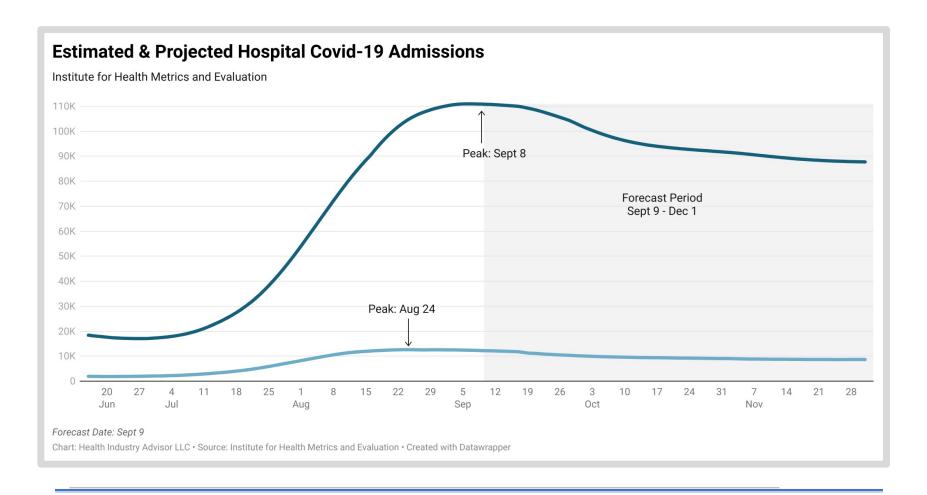
Estimated Infections- IHME Projections

IHME's latest model supports the Harvard/Stanford/Yale view that new infections peaked three weeks ago. The IHME model anticipates that infections will stabilize at a relatively high rate through November.



Covid-19 Inpatient Admissions & Census – IHME Projections

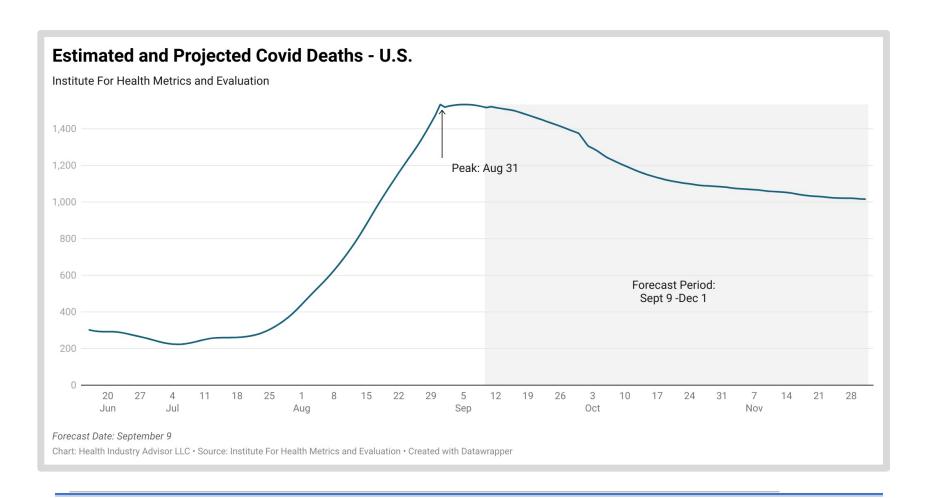
IHMÉ suggests that Covid hospital admissions peaked nearly three weeks ago and Covid hospital census peaked last Wednesday. Both measure will stabilize at a relatively high level.





Deaths With Covid-19: IHME Projection

IHME's model suggests that we have seen the peak of daily deaths from the Delta variant. Still, the model projects a significant death rate through November.





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

