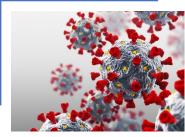


"Strategic Advice in an Era of Unprecedented Change"









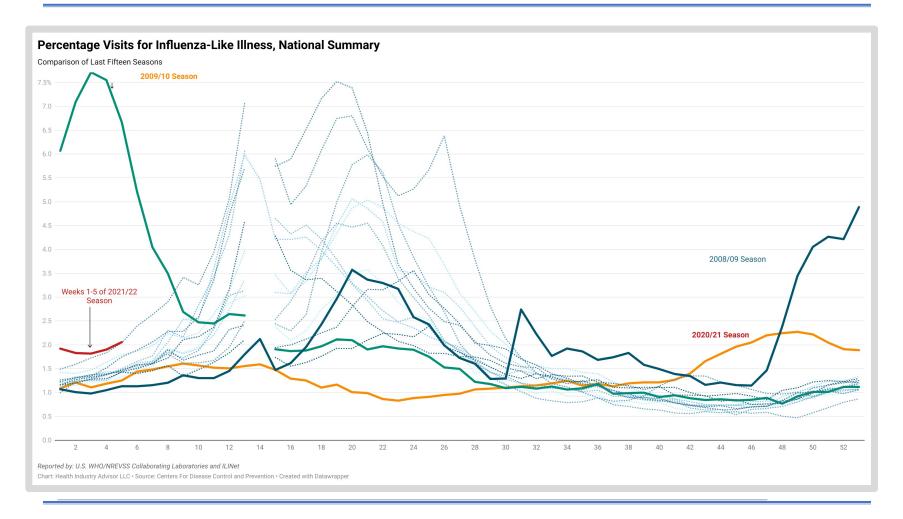
Covid-19 "Vital Signs"

Issue # 356 November 15, 2021



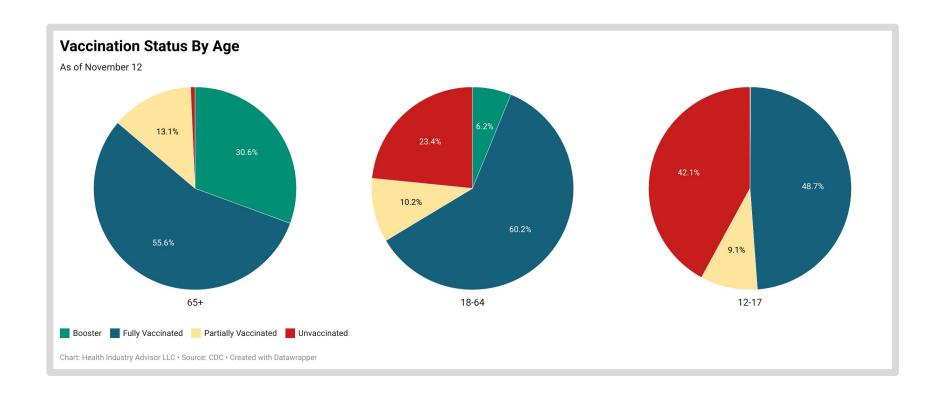
Comparison of Flu Seasons

The flu visit rate is now tracking with the rate posted two years ago. That season proved to be the third most severe of the past fifteen years.



Vaccination Status By Age — United States

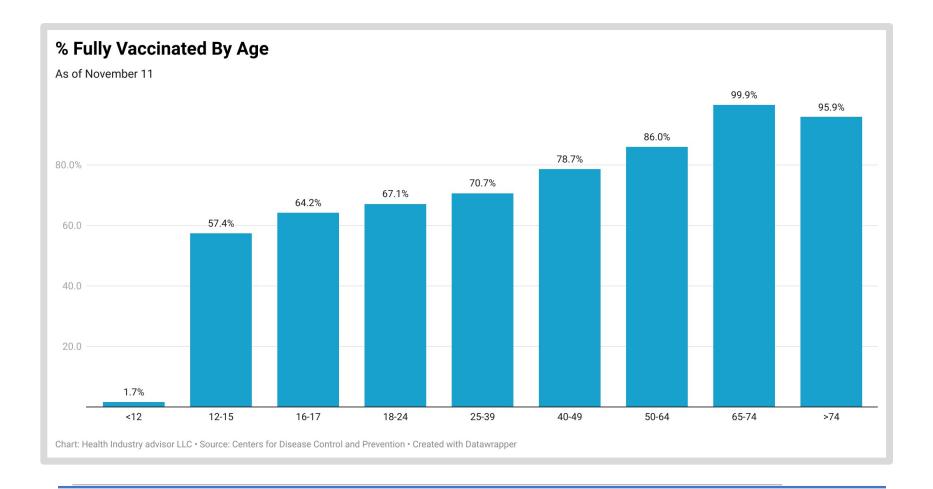
Ninety-nine percent of seniors are at least partially vaccinated. Thirty percent have received their booster shot already. Two-thirds of non-senior adults are fully vaccinated. Half of eligible teenagers are fully vaccinated..





Vaccination Status By Age

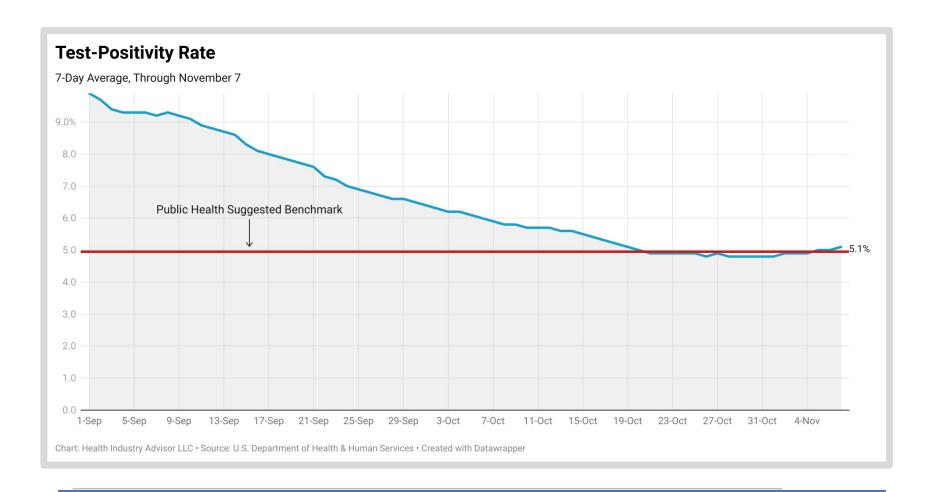
Virtually everyone between 65 and 74 years old are fully vaccinated. Four-in-five persons between 40 and 59 years old are fully vaccinated. One remaining challenge is to vaccinate more children and teenagers.





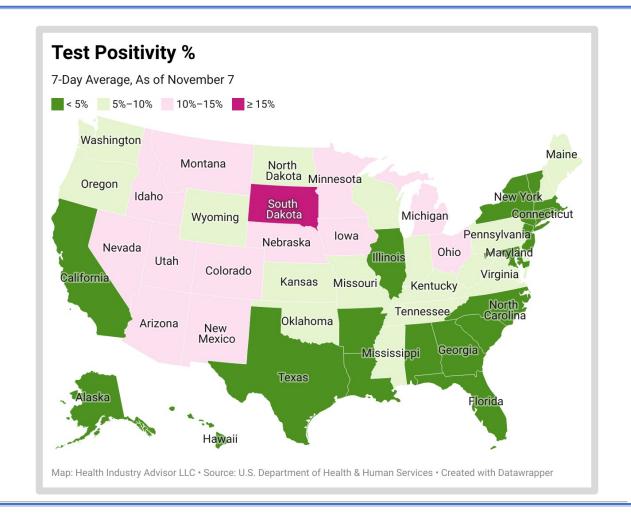
Test-Positive Rate

The test-positive rate moved above the suggested 5% benchmark, set by public health officials .



7-Day Average Test-Positivity %

South Dakota posted the highest test-positivity rate of all states last week. Several Midwest and Mountain States experienced higher-than-desirable rates.

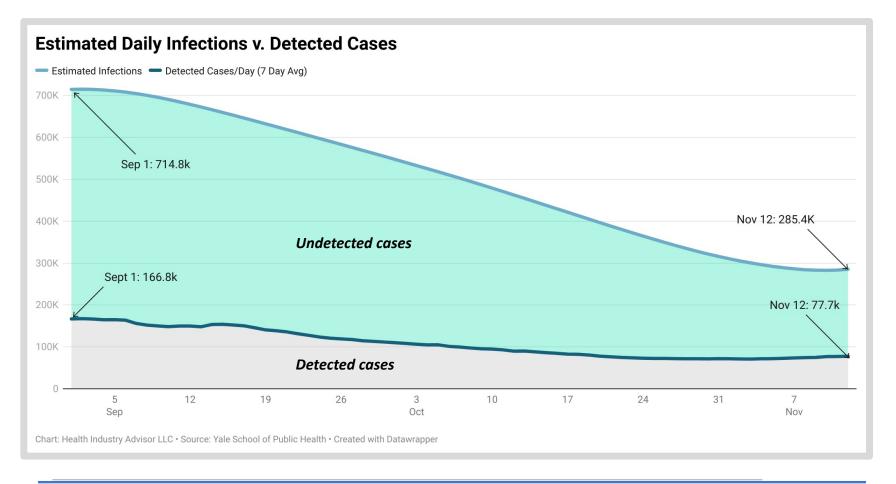






Estimated Daily Infections & New Case Rates – U.S.

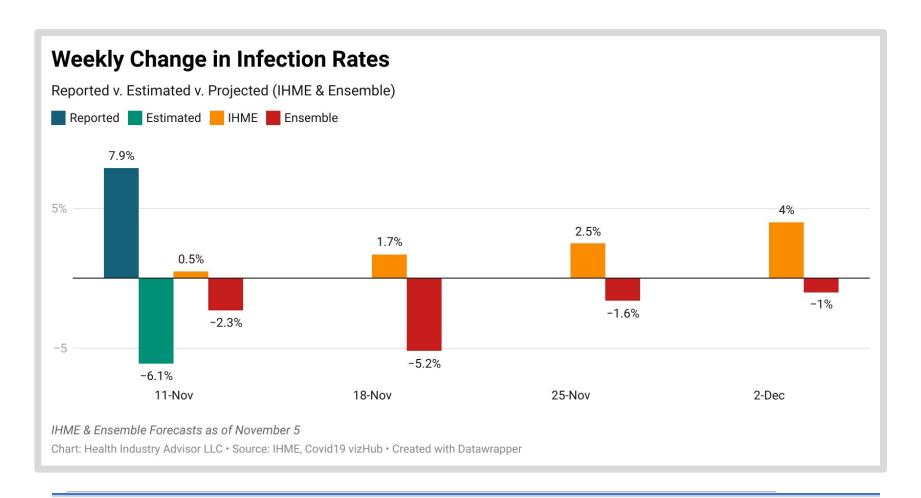
In the U.S., estimated infections increased on Thursday and again on Friday. Reported cases (7-day average) increased each day for the past nine.





Latest Forecasts – IHME & Ensemble

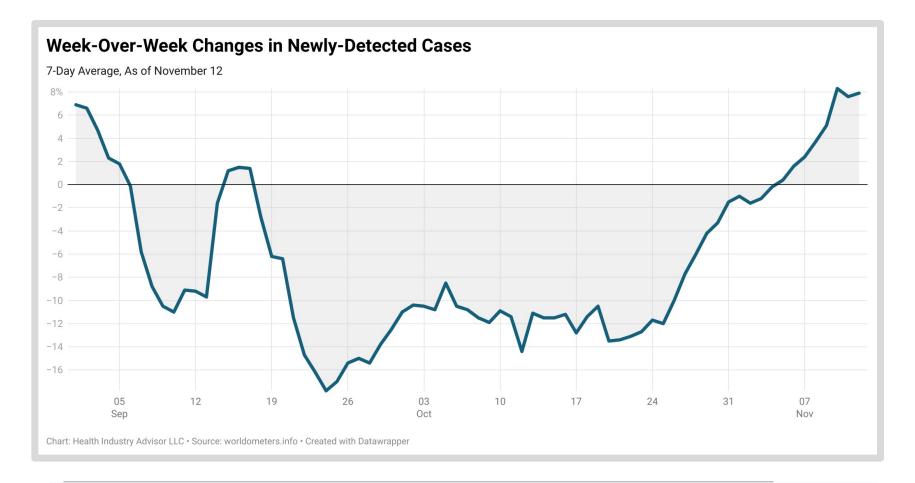
IHME and the Ensemble forecast diverge in their expectations for future cases and infections. IHME anticipates rising infections each week. The Ensemble expects fewer cases week-over-week. Last week, the two forecasts fell between the actual case count and estimated infections.





Week-Over-Week Changes in New Cases – U.S.

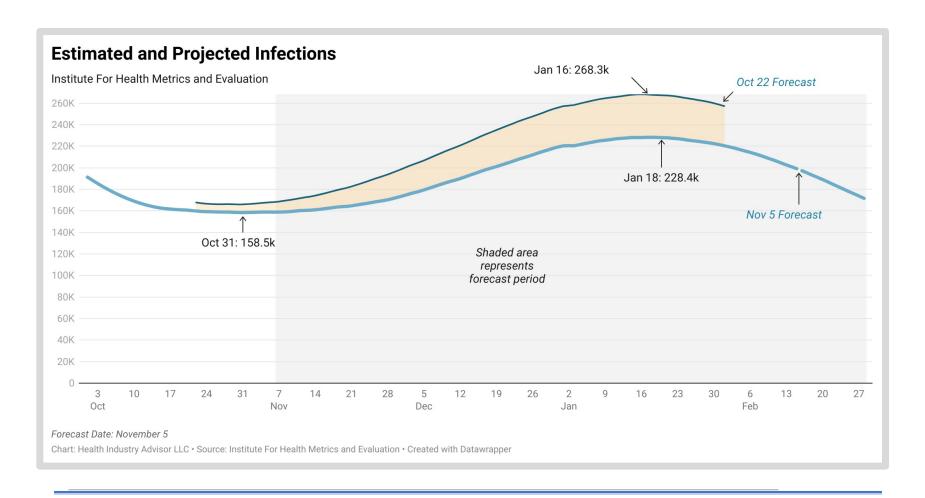
New cases increased week-over-week for the past eight days. The rate of increase seemed to level off on Thursday and Friday.





Estimated Daily Infections & New Cases - IHME

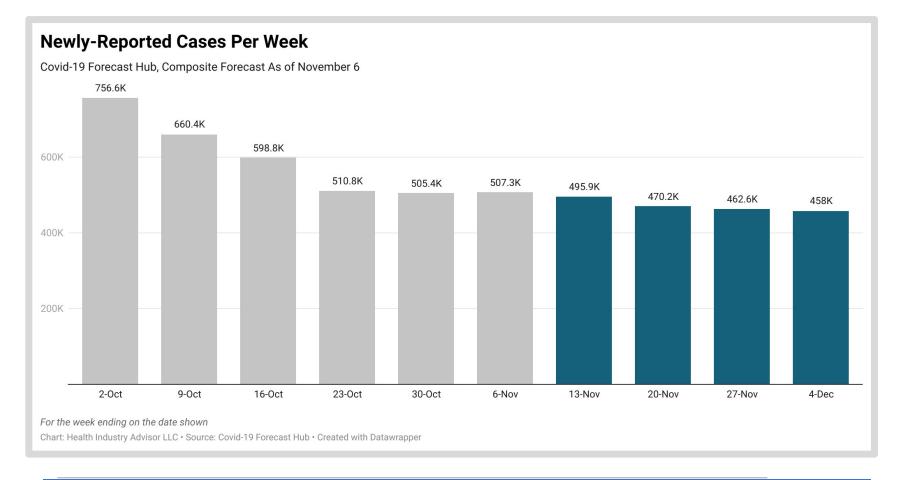
In its latest model (published November 11), the Institute for Health Metrics and Evaluation suggests that daily infections in the U.S. started increasing post-Halloween. The outlook in this IHME forecast is somewhat better than its forecast from three weeks ago.





Covid-19 Cases: Ensemble Forecast

The ensemble this week predicts that infections will continue falling for the next several weeks.

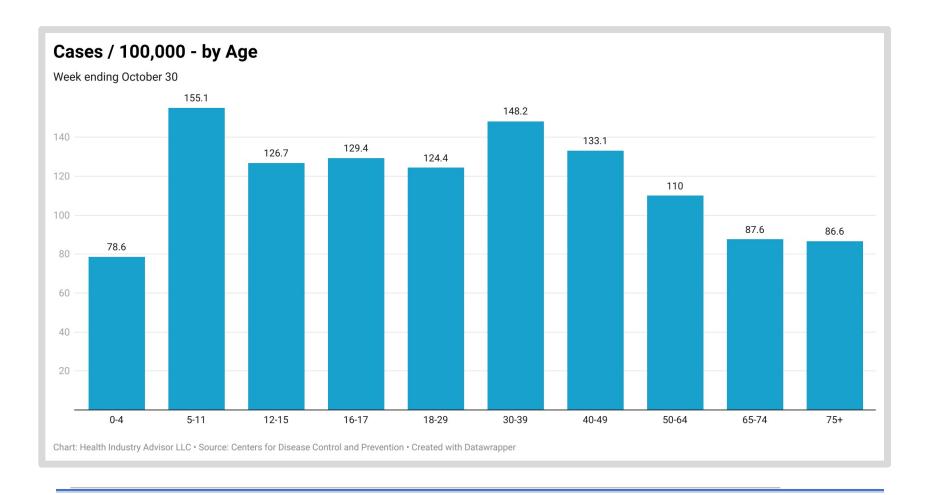




Cases Per Capita By Age Group

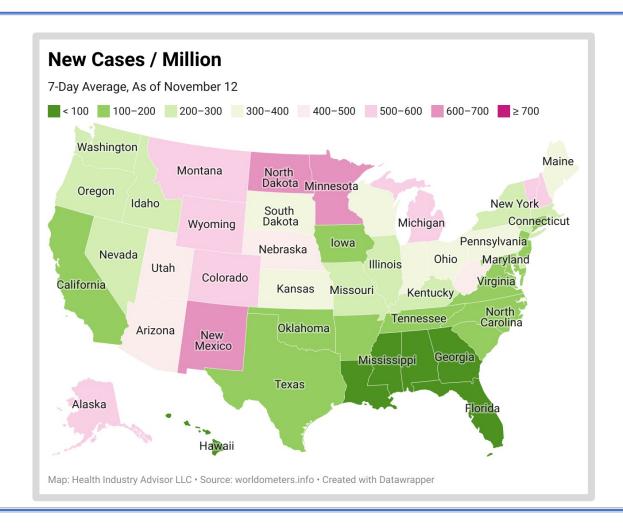
Covid-19 "Vital Signs"

Infants and toddlers (0-to-4-years-old) continue to report the lowest infection rate per capita. Seniors, thanks to impressive vaccination rates, benefit from lower rates than any other age group. With the highest infection rate, children 5-to-11-years old should benefit from anticipated vaccine approval.



New Daily Cases Per Capita By State

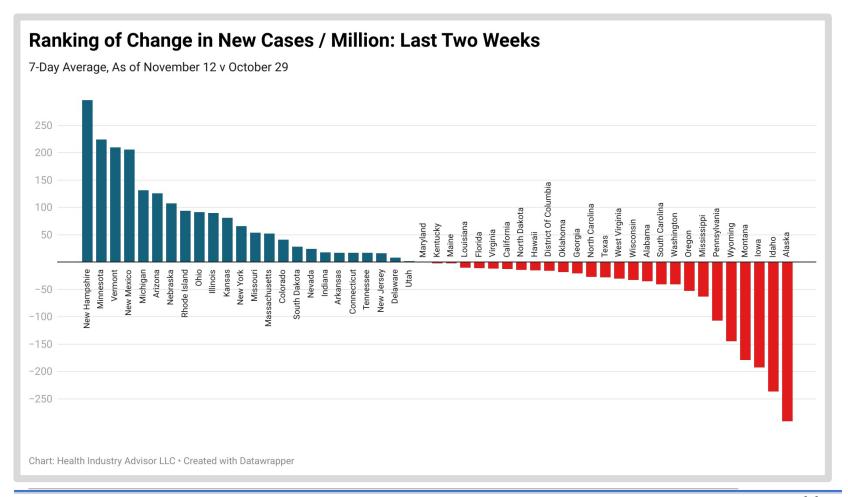
Midwest and Mountain States posted the highest case rates last week. States in the Southeast experienced the lowest rates.





Change in Newly Detected Cases - Last Two Weeks

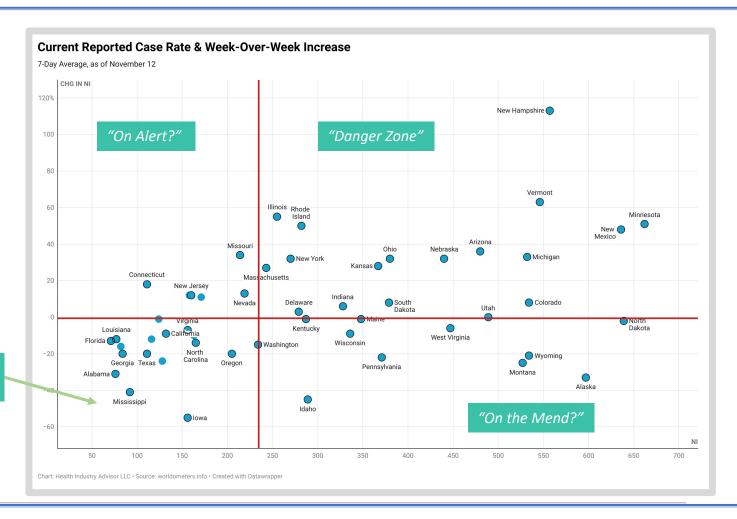
New cases rates jumped in New Hampshire, Minnesota, Vermont, and New Mexico during the past two weeks. Case rates plunged in Alaska and Idaho.





Which States Have Highest Rates of New Cases?

New Hampshire, Vermont, Minnesota, and New Mexico suffer with the dubious combination of high and rising case rates.



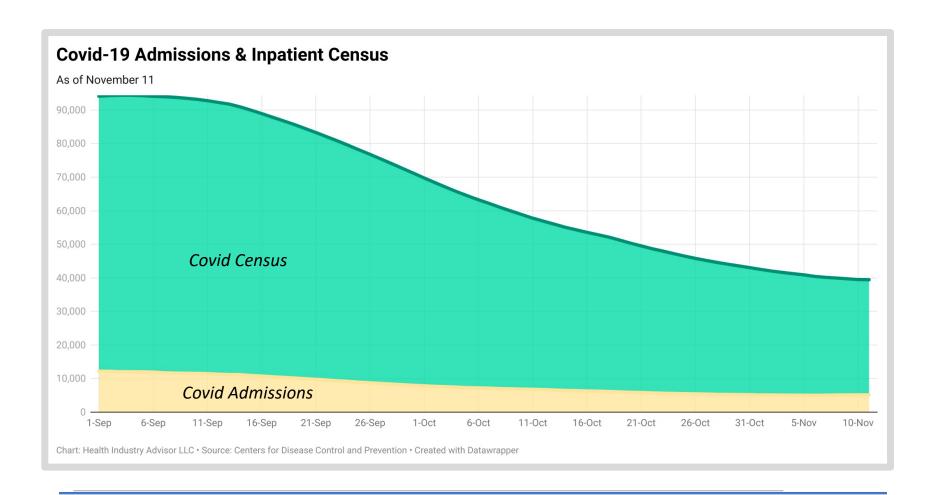
"Ahead of

the Game"



Inpatient Covid Admissions and Census Despite the flattening cases, inpatient census declined last week. However,

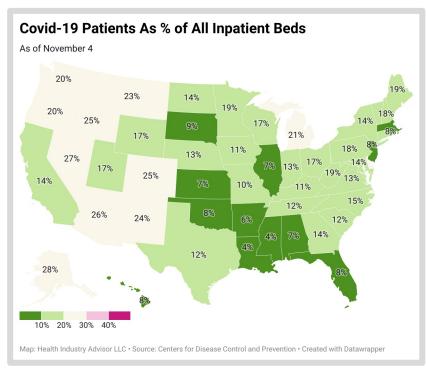
Despite the flattening cases, inpatient census declined last week. However, admissions moved up slightly during the week. Both measures plunged from late August/early September highs.

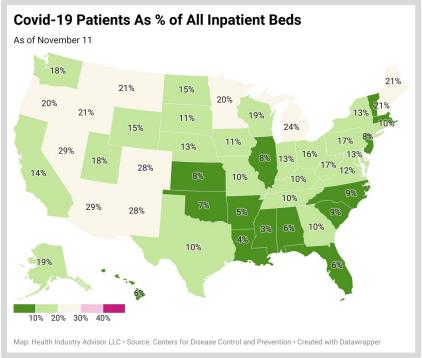




Covid Hospital Occupancy By State

Covid hospitalization levels improved across several parts of the country over the past week. Covid patients occupy one of every eight beds nationally.

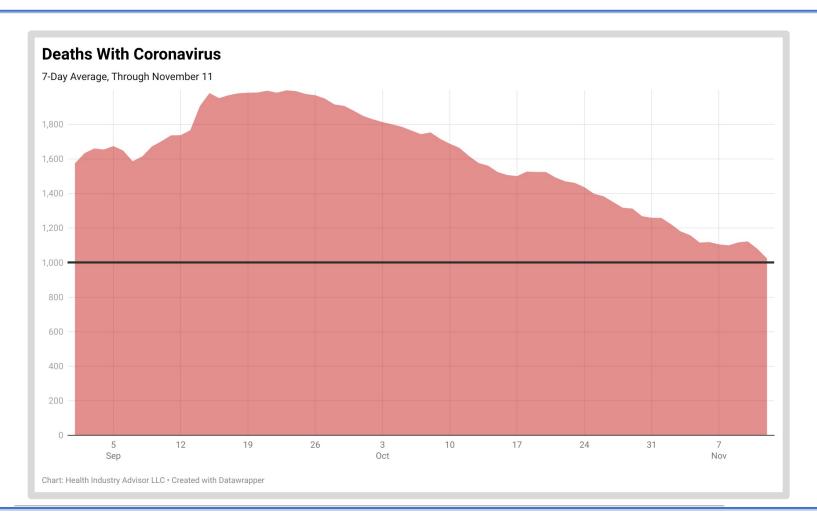






Deaths with Covid-19

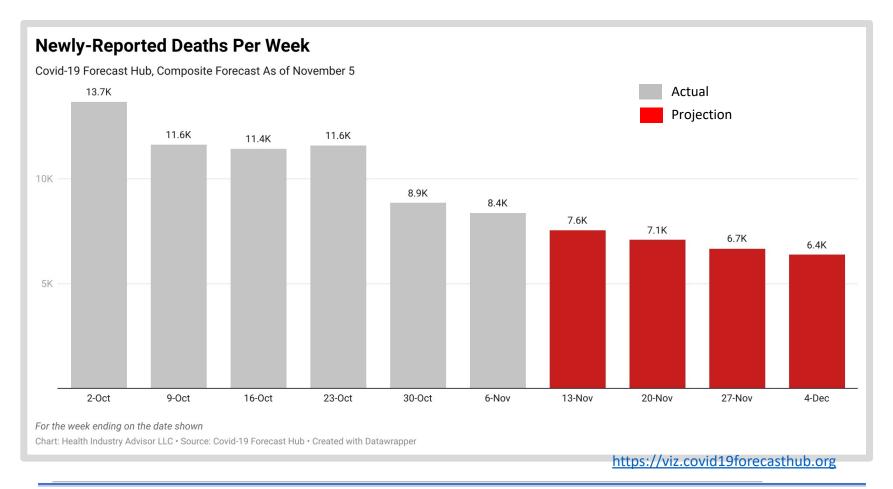
Deaths with Covid continued declining last week. The current rate is slightly above 1,000 per day.





Death Projections – Ensemble Forecast

The ensemble forecast predicts declining Covid deaths over the next four weeks.







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

