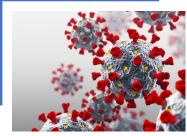


"Strategic Advice in an Era of Unprecedented Change"







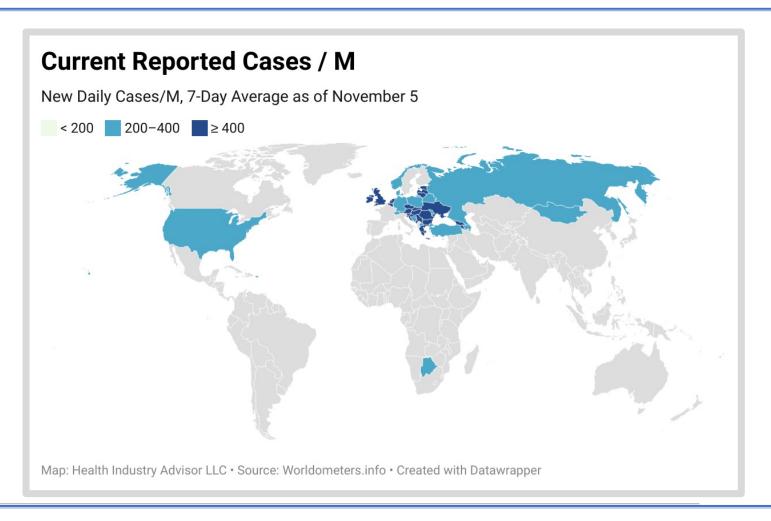


Covid-19 "Vital Signs"

Issue # 355 November 8, 2021

Current Reported Case Rates

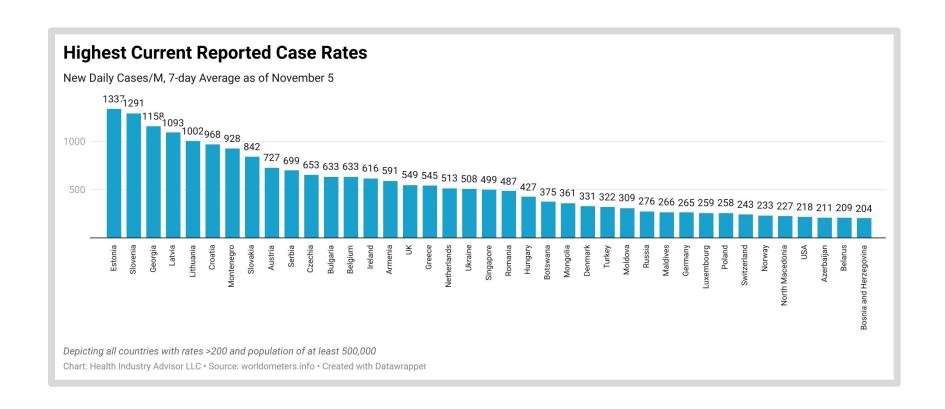
The highest current rates are concentrated in Europe, and especially in Eastern Europe





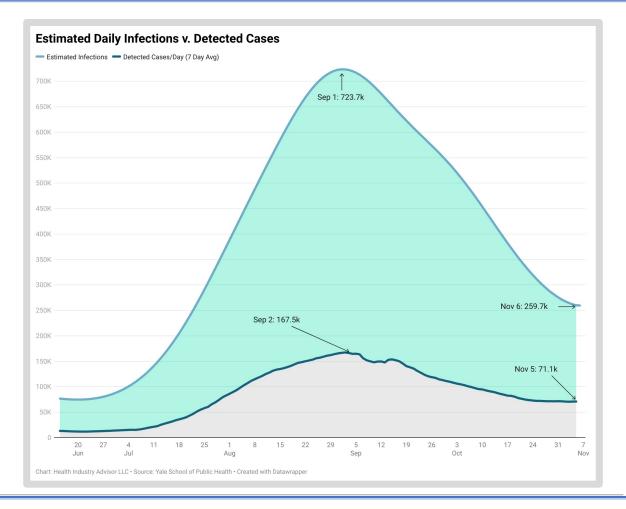
Countries With Highest Current Case Rates

The United States ranks thirty-sixth among large countries (population > 500,000) in current reported rates per capita.



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

In the U.S., sstimated infections plunged by two-thirds from September 1 through last Friday. Reported cases plunged 60% during the same period.

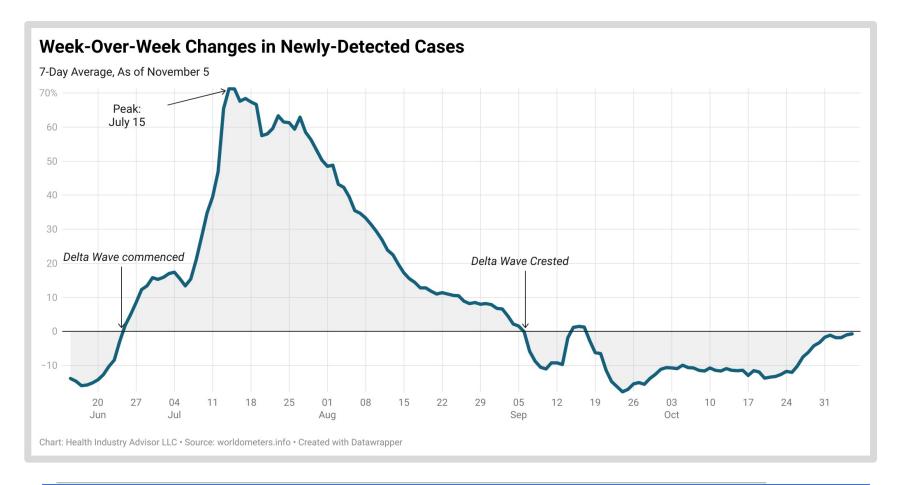






Week-Over-Week Changes in New Cases – U.S.

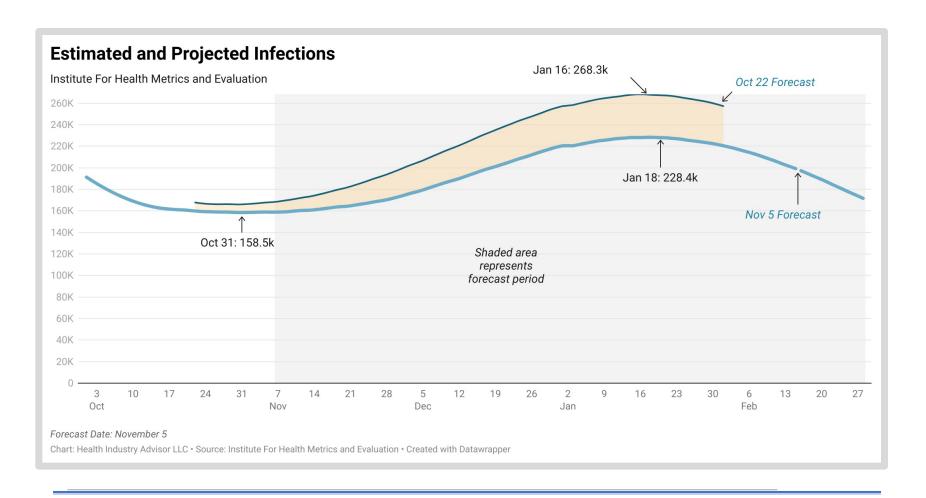
New cases were essentially flat over the last week. These cases had been falling since the beginning of September..





Estimated Daily Infections & New Cases - IHME

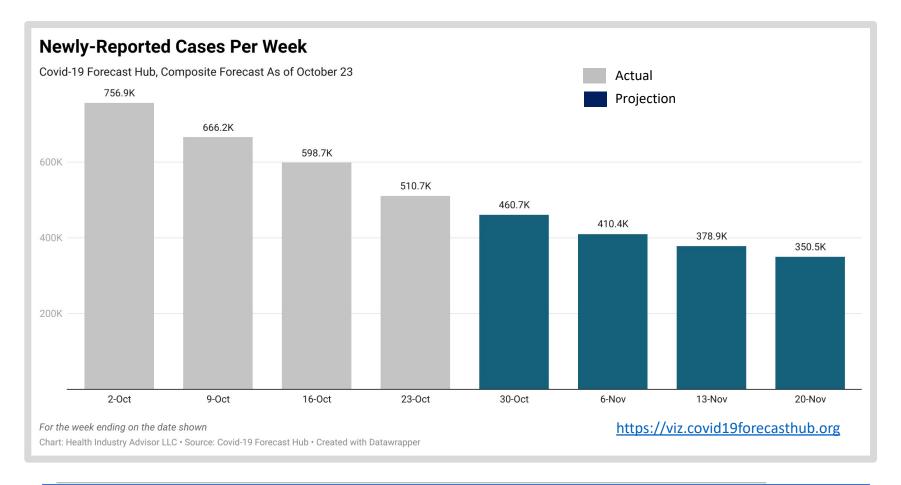
In its latest model (published last Friday), the Institute for Health Metrics and Evaluation suggest that daily infections in the U.S. started increasing post-Halloween. The outlook in this IHME forecast is somewhat better than its forecast from two weeks ago.





Covid-19 Cases: Ensemble Forecast

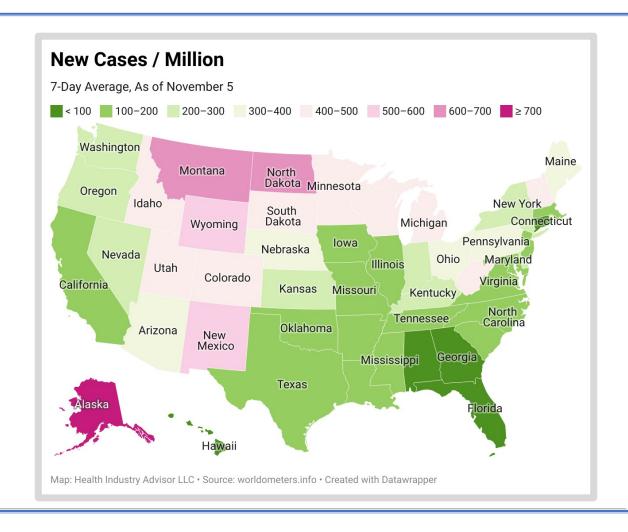
The ensemble forecast published a week ago predicts that infections will continue falling for the next several weeks. In this forecast, cases plunge 30% in four weeks. Note that cases were essentially flat last week, whereas the ensemble forecast predicted cases would decline.





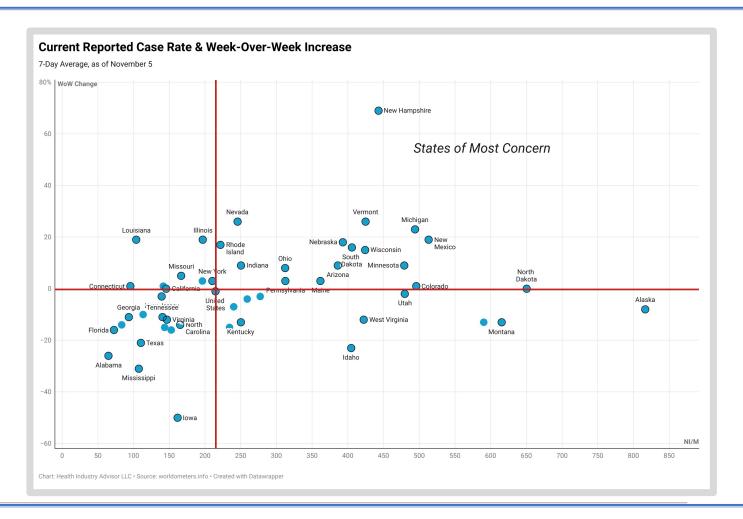
New Daily Cases Per Capita By State

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



Estimated Daily Infections & New Case Rates Alaska posted the highest case rate of all states last week. However, the rate declined

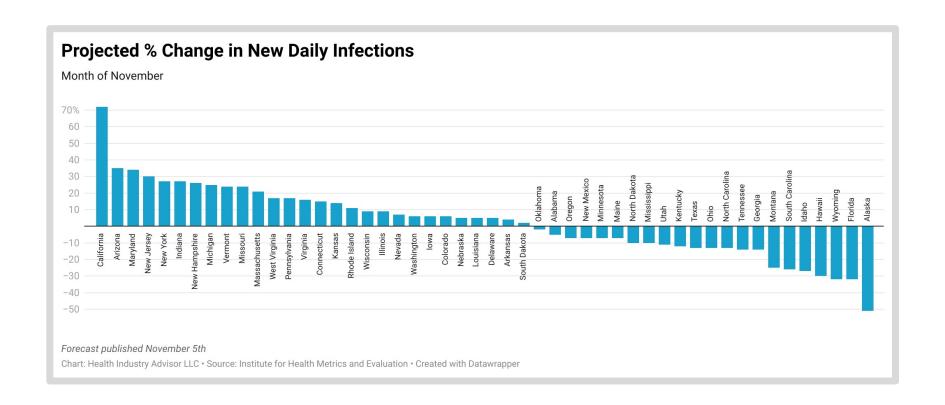
Alaska posted the highest case rate of all states last week. However, the rate declined from the prior week. New Hampshire experienced the largest week-over-week increase in its new case rate.





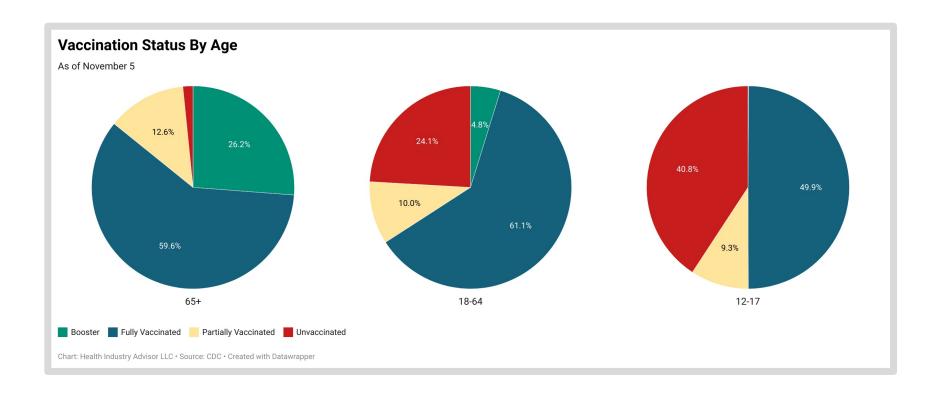
Projected Change in Case Rate For November - IHME

IHME anticipates that California will experience a 70% surge in its new daily case rate during November. Arizona, Maryland, and New Jersey could see a 30% jump.



Vaccination Status By Age — United States

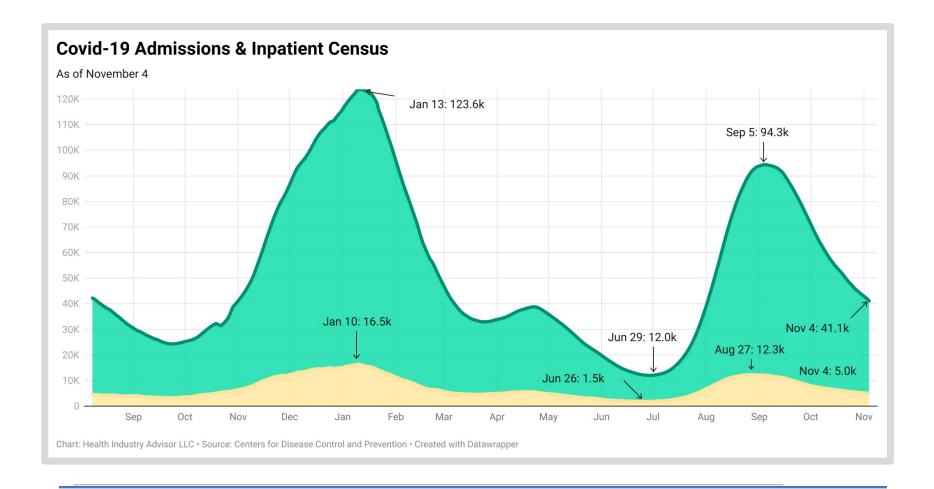
Fewer than 2% of seniors have yet to be at least partially vaccinated. More than one-quarter received their booster shot already. Three-quarters of non-senior adults are at least partially vaccinated.





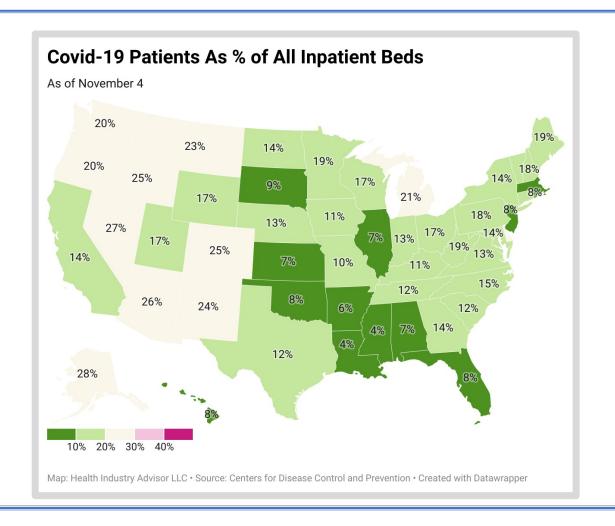
Inpatient Covid Admissions and Census

Despite the flattening cases, inpatient census and admissions declined last week. Both measures plunged from late August/early September highs.



Covid Hospital Occupancy By State

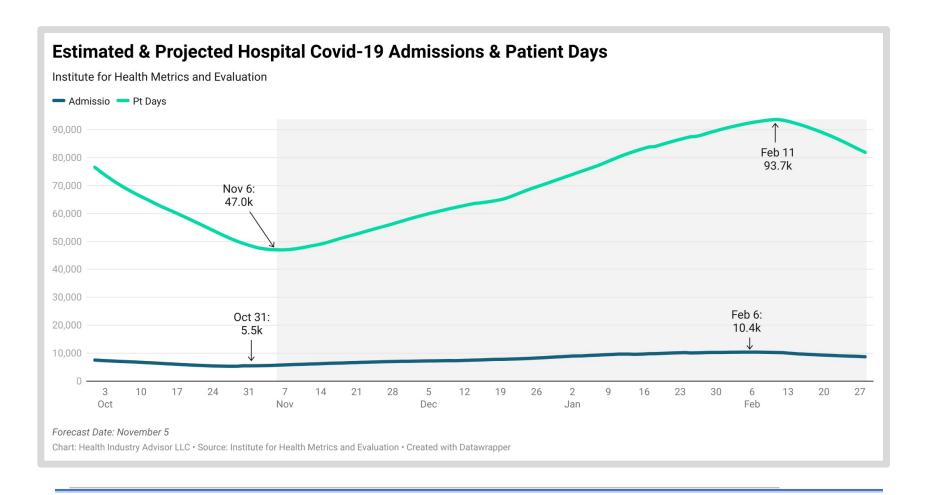
Covid patients occupy fewer than one of ten beds in eleven states. Alaska is experiencing the highest rate, 28%





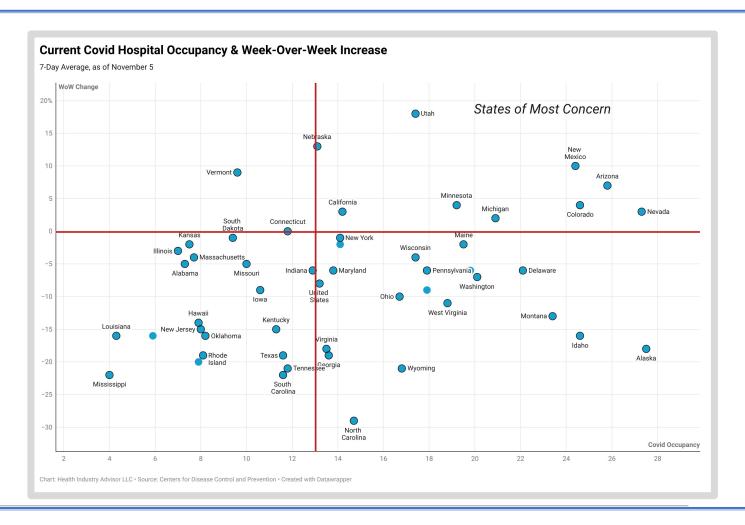
Estimated Covid Admissions and Patient Days - IHME

Based on IHME's latest modeling, inpatient Covid admissions and census will double between now and early February.



Estimated Daily Infections & New Case Rates Alaska, which posted the highest Covid occupancy rate last week, also experienced

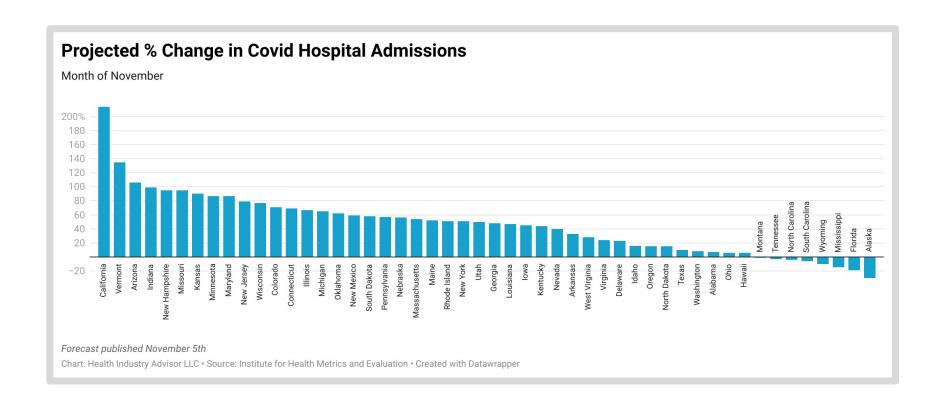
Alaska, which posted the highest Covid occupancy rate last week, also experienced more discharges than new admissions. Of concern are states with both high and increasing occupancy rates, such as Arizona, Colorado, and New Mexico.





Projected Change in Covid Admissions - IHME

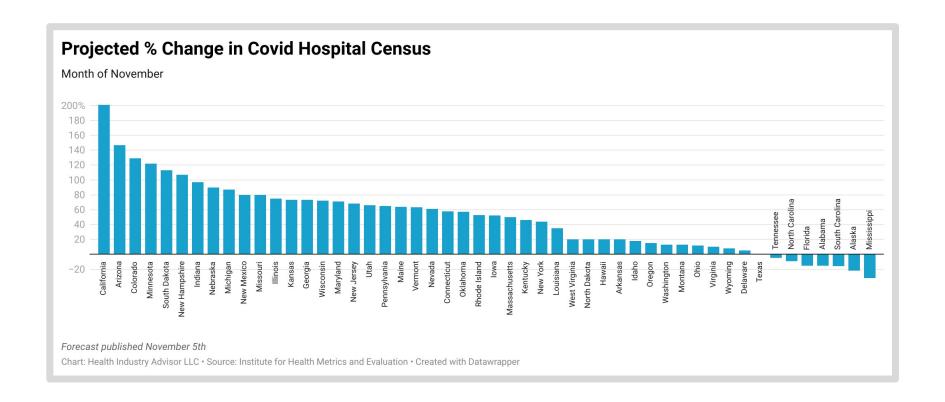
IHME envisions California will see three times as many new Covid admissions at the end of November as it did in late October. IHME expects admissions will double in Arizona, Indiana, and Vermont.





Projected Change in Covid Admissions - IHME

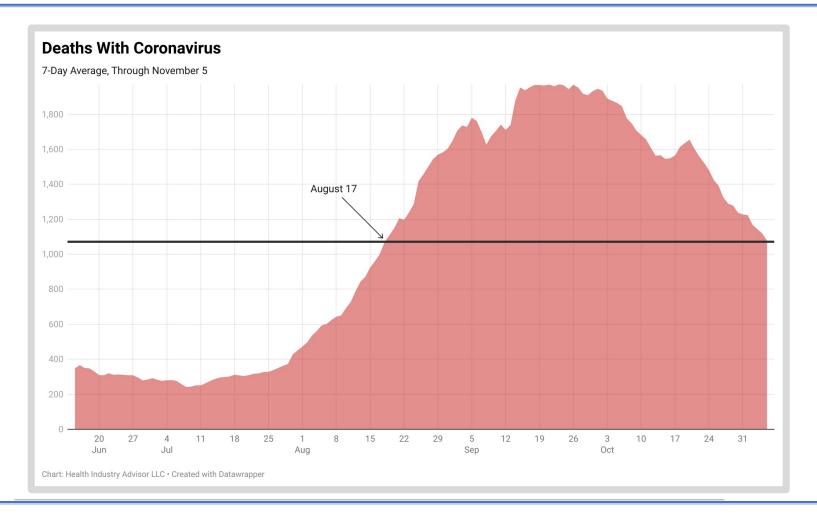
Like anticipated Covid admissions, IHME envisions a tripling of Covid census in November in California.





Deaths with Covid-19

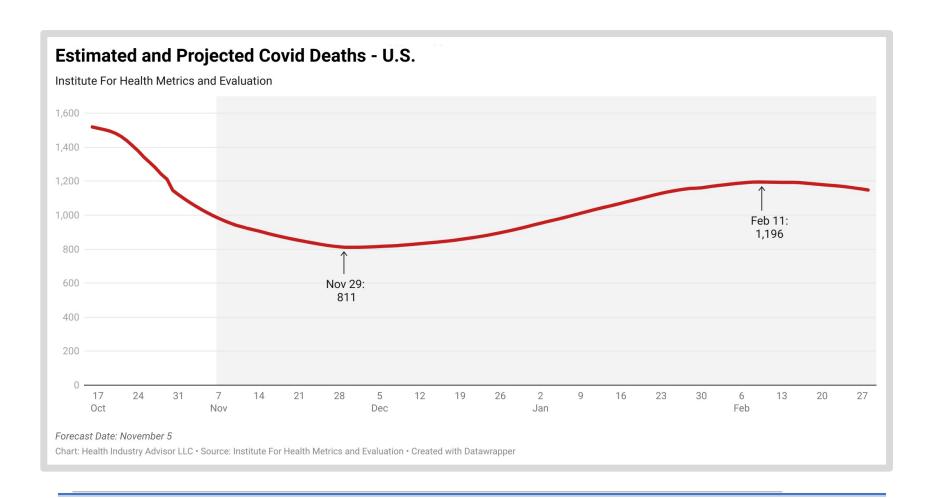
Deaths with Covid continued declining last week. The current rate reached a nearly twelve-week-low.





Estimated Covid Deaths-IHME

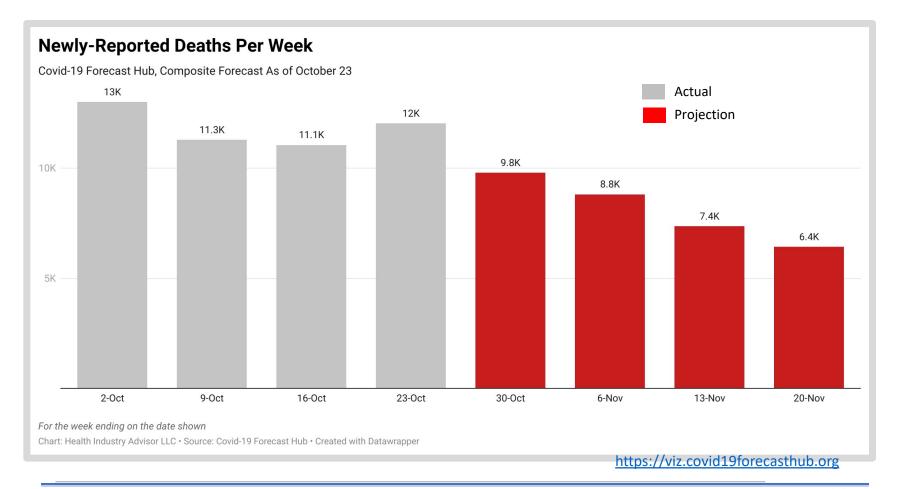
IHME expects Covid deaths to fall throughout November. However, IHME then anticipates deaths will climb to nearly 1,200 per day by early February.





Death Projections – Ensemble Forecast

The ensemble forecast also predicts declining Covid deaths (46%) over the next four weeks.

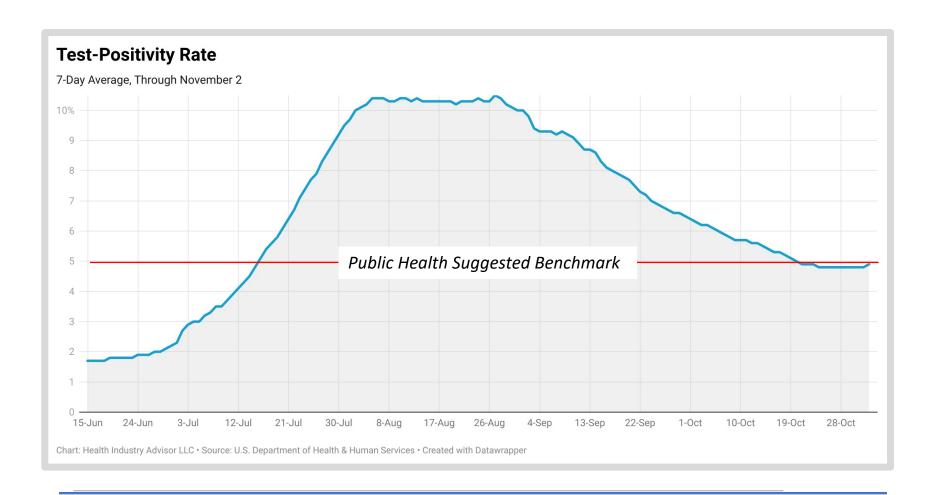






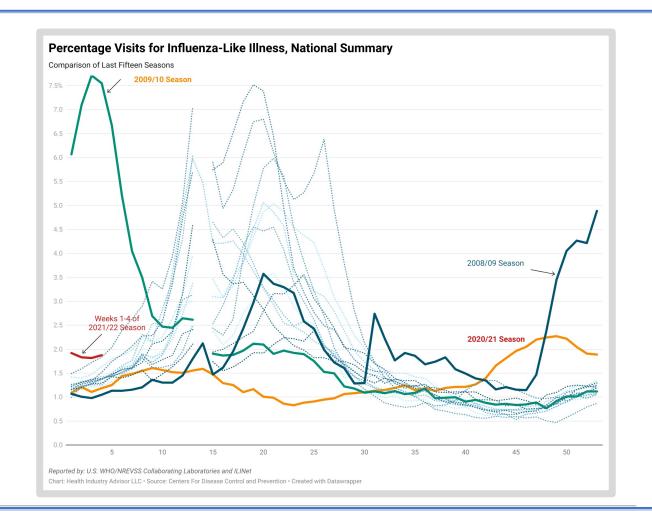
Test-Positive Rate

The test-positive rate continues to drop, falling below the 5% benchmark set by public health officials. This rate is now as low as it has been since mid-July.



Comparison of Flu Seasons

After a concerning run-up in flu cases last month, these visits have slowed in recent weeks. However, they remain higher than experienced last winter.





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

