



Coronavirus Disease 2019 (COVID-19)



COVID-19 Forecasts: Cases

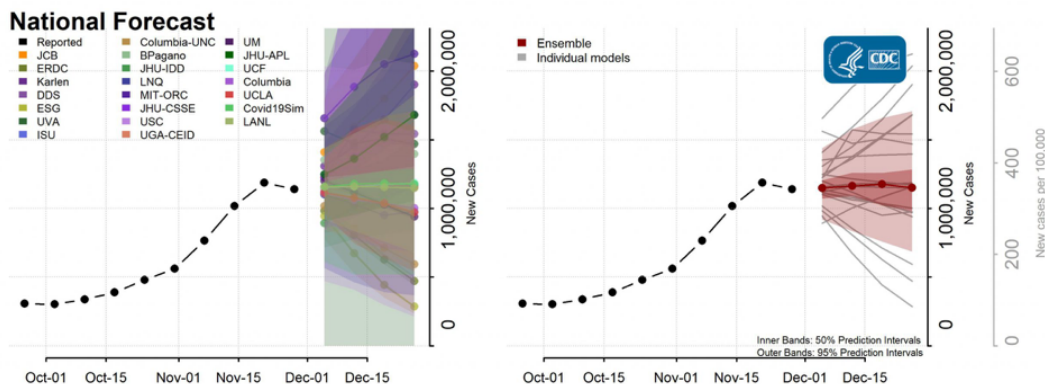
Updated Dec. 2, 2020

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Interpretation of Forecasts of New Cases

- This week, CDC received forecasts of new reported COVID-19 cases over the next 4 weeks from 25 modeling groups that were included in the ensemble forecasts.
- This week's national ensemble predicts that 690,000 to 1,700,00 new cases will likely be reported during the week ending December 26, 2020.
- Over the last several weeks, more reported cases than expected have fallen outside of the forecasted prediction intervals. This suggests that current forecast prediction intervals may not reflect the full range of future reported case numbers. Forecasts for new cases should be interpreted accordingly.

National Forecasts



- The figure shows the number of new COVID-19 cases reported nationally in the United States each week from September 26 to November 28, 2020 and forecasted new cases over the next 4 weeks, through December 26, 2020.
- Models make various assumptions about the levels of social distancing and other interventions, which may not reflect recent changes in behavior. See model descriptions below for details.


[Download national forecast data](#) [XLS – 22 KB]

State & County Forecasts


State-level and county-level forecast figures show observed and forecasted new COVID-19 cases in each location. Each forecast uses a different scale due to differences in the numbers of COVID-19 cases occurring in each jurisdiction. To aid in comparisons between jurisdictions, the ensemble plot for each location has a second axis (in grey) that shows the expected number of cases per 100,000 people.


[Download forecasts for states and territories and for counties](#)  [PDF – 10 MB] ¹

[Download all forecast data](#)  [CSV – 13 MB]














Additional forecast data and information on forecast submission are available at the [COVID-19 Forecast Hub](#) .













Forecast Inclusion and Assumptions

The forecasts included in the ensembles are displayed below. Forecasts are included when they meet a set of submission and data quality requirements, further described here: <https://github.com/reichlab/covid19-forecast-hub#ensemble-model> .

The forecasts make different assumptions about social distancing measures. Information about individual models is available here: https://github.com/cdcepi/COVID-19-Forecasts/blob/master/COVID-19_Forecast_Model_Descriptions.md .

Intervention assumptions fall into one of three categories:

- These modeling groups make assumptions about how levels of social distancing will change in the future:
 - [Columbia University](#)  (Model: Columbia)
 - [COVID-19 Simulator Consortium](#)  (Model: CovidSim)
 - [Johns Hopkins University, Infectious Disease Dynamics Lab](#)  (Model: JHU-IDD)
 - [John Burant](#)  (Model: JCB)
 - [University of California, Los Angeles](#)  (Model: UCLA)
- These groups assume that existing social distancing measures will continue through the projected 4-week time period:
 - [Bob Pagano](#)  (Model: BPagano)
 - [Carnegie Mellon Delphi Group](#)  (Model: CMU)
 - [Columbia University and University of North Carolina](#)  (Model: Columbia-UNC)
 - [Discrete Dynamical Systems](#)  (Model: DDS)
 - [Iowa State University](#)  (Model: ISU)
 - [Johns Hopkins University, Applied Physics Lab](#)  (model: JHU-APL)
 - [Johns Hopkins University, Center for Systems Science and Engineering](#)  (Model: JHU-CSSE)
 - [Karlen Working Group](#)  (Model: Karlen)

- [LockNQuay](#)  (Model: LNQ)
- [Los Alamos National Laboratory](#)  (Model: LANL)
- [Massachusetts Institute of Technology, Operations Research Center](#)  (Model: MIT-ORC)
- [Robert Walraven](#)  (Model: ESG)
- [US Army Engineer Research and Development Center](#)  (Model: ERDC)
- [University of California, Santa Barbara](#)  (Model: UCSB)
- [University of Central Florida](#)  (Model: UCF)
- [University of Georgia Center for the Ecology of Infectious Diseases Forecasting Working Group](#)  (Model: UGA-CEID)
- [University of Massachusetts, Amherst](#)  (Model: UMass)
- [University of Michigan](#)  (Model: UM)
- [University of Southern California](#)  (Model: USC)
- The [University of Virginia](#)  (Model: UVA) model makes both assumptions, combining different models.

¹ The full range of the prediction intervals is not visible for all state plots. Please see the forecast data for the full range of state specific prediction intervals.

Additional Resources

[Previous COVID-19 Forecasts: Cases](#)

[FAQ: COVID-19 Data and Surveillance](#)

[CDC COVID Data Tracker](#)

[COVID-19 Mathematical Modeling](#)

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Content source: [National Center for Immunization and Respiratory Diseases \(NCIRD\), Division of Viral Diseases](#)