COVID-19

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COVID-19 Forecasts: Cases

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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 the number of newly reported COVID-19 cases will likely decrease over the next 4 weeks, with 720,000 to 1,500,000 new cases likely reported in the week ending February 20, 2021.

- The state- and territory-level ensemble forecasts predict that over the next 4 weeks, the number of new reported cases per week will likely decrease in 18 jurisdictions, which is indicated in the forecast plots below. Trends in numbers of future reported cases are uncertain or predicted to remain stable in the other states and territories.

National Forecasts
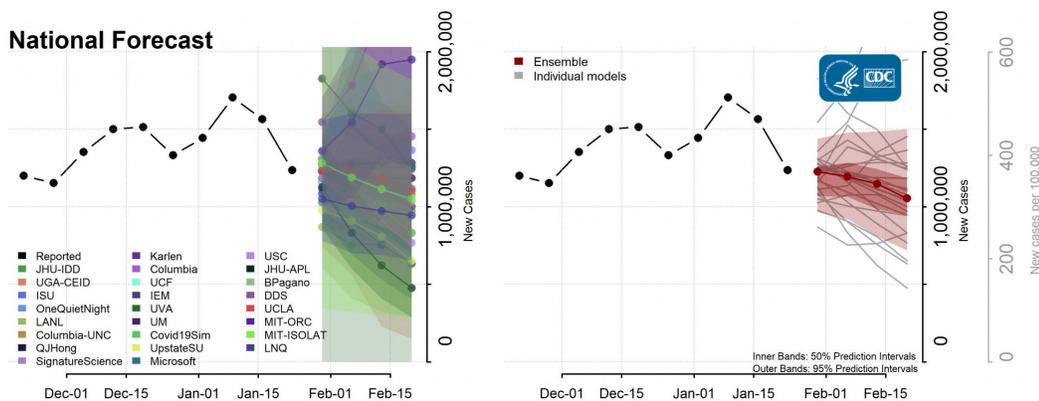
- The figure shows the number of new COVID-19 cases reported nationally in the United States each week from November 21, 2020 to January 23, 2021 and forecasted new cases over the next 4 weeks, through February 20, 2021.

- 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 [XLSX – 2 sheets]

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 📄 [12 MB, 533 pages] [1]

Download all forecast data 📊 [CSV, 1 sheet]

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. Additional individual model details are 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: Covid19Sim)
    - Johns Hopkins University, Infectious Disease Dynamics Lab 🔗 (Model: JHU-IDD)
    - 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)
    - Columbia University and University of North Carolina 🔗 (Model: Columbia-UNC)
    - Discrete Dynamical Systems 🔗 (Model: DDS)
    - IEM 🔗 (Model: IEM)
    - Iowa State University 🔗 (Model: ISU)
    - Johns Hopkins University, Applied Physics Lab 🔗 (model: JHU-APL)
    - Karlen Working Group 🔗 (Model: Karlen)
    - LockNQuay 🔗 (Model: LNQ)
    - Los Alamos National Laboratory 🔗 (Model: LANL)

- [Massachusetts Institute of Technology, Institute for Data, Systems, and Society](#) 🔗 (Model: MIT-ISOLAT)
- [Massachusetts Institute of Technology, Operations Research Center](#) 🔗 (Model: MIT-ORC)
- [Microsoft AI](#) 🔗 (Model: Microsoft)
- [OneQuietNight](#) 🔗 (Model: OneQuietNight)
- [Qi-Jun Hong](#) 🔗 (Model: QJHong)
- [Robert Walraven](#) 🔗 (Model: ESG)
- [Signature Science](#) 🔗 (Model: SignatureScience)
- [State University of New York, Upstate Medical University](#) 🔗 (Model: UpstateSU)
- [University of Central Florida](#) 🔗 (Model: UCF)
- [University of Georgia Center for the Ecology of Infectious Diseases Forecasting Working Group](#) 🔗 (Model: UGA-CEID)
- [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](#)

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

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[CDC COVID Data Tracker](#)

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[COVID-19 Mathematical Modeling](#)