

# COVID-19

CASES ARE RISING.  
**ACT NOW!**



## COVID-19 Forecasts: Deaths

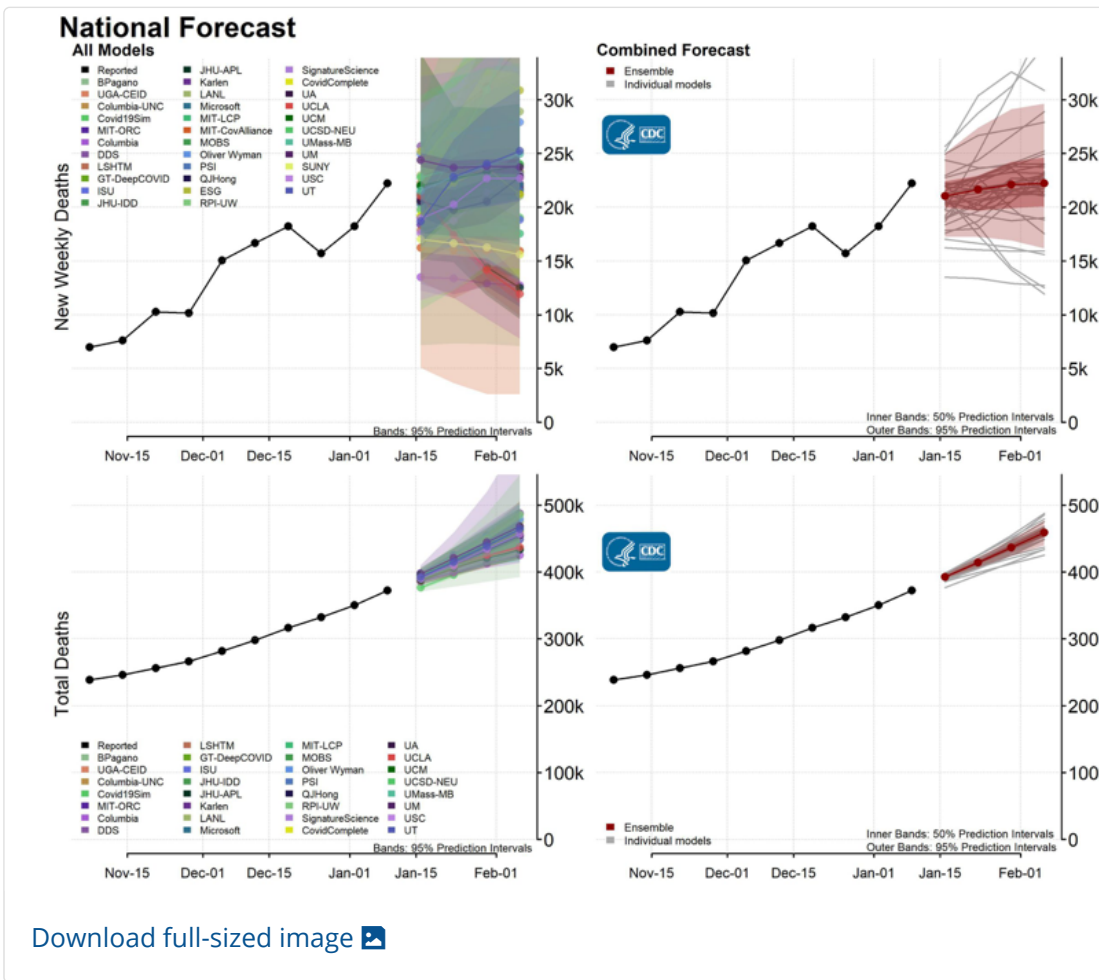
Updated Jan. 13, 2021    [Print](#)

Observed and forecasted new and total reported COVID-19 deaths as of January 11, 2021.

### Interpretation of Forecasts of New and Total Deaths

- This week, CDC received forecasts of COVID-19 deaths over the next 4 weeks from 39 modeling groups that were included in the ensemble forecasts. Of the 39 groups, 35 provided forecasts for both new and total deaths, two groups forecasted total deaths only, and two forecasted new deaths only.
- This week's national [ensemble forecast](#) predicts that 16,200 to 29,600 new deaths will likely be reported in the week ending February 6, 2021. The national ensemble predicts that a total of 440,000 to 477,000 COVID-19 deaths will be reported by this date.
- The state- and territory-level ensemble forecasts predict that over the next 4 weeks, the number of newly reported deaths per week will likely increase in 3 jurisdictions and decrease in 1 jurisdiction, which are indicated in the forecast plots below. Trends in numbers of future reported deaths are uncertain or predicted to remain stable in the other states and territories.

### National Forecast



- The top row of the figure shows the number of new COVID-19 deaths reported in the United States each week from November 7 through January 9 and forecasted new deaths over the next 4 weeks, through February 6.
- The bottom row of the figure shows the number of total COVID-19 deaths in the United States each week from November 7 through January 9 and the forecasted number of total COVID-19 deaths over the next 4 weeks, through February 6.
- Models make various assumptions about the levels of social distancing and other interventions, which may not reflect recent changes in behavior.

[Download national forecast data](#) [XLS - 28 KB]

## State Forecasts

Plots of individual state forecasts, each state-level [ensemble forecast](#), and the underlying data can be downloaded below. Each state forecast figure uses a different scale, due to differences in the number of COVID-19 deaths between states.

[Download state forecasts](#) [2 MB, 29 pages] <sup>1</sup>

[Download forecast data](#) [CSV - 1 MB]

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



### Forecasts on COVID Data Tracker

View interactive visualizations of current and past cumulative and weekly COVID-19 death forecasts for the U.S. states and territories. Also, find maps and charts tracking cases, deaths, and trends of COVID-19 in the U.S.

## Ensemble Forecast

An “ensemble” forecast combines each of the independently developed forecasts into one aggregate forecast to improve prediction over the next 4 weeks. Both national- and state-level ensemble forecasts are developed for predicting new and total COVID-19 deaths reported each week for the next 4 weeks. [Ensemble Forecasts of Coronavirus Disease 2019 \(COVID-19\) in the U.S.](#) describes its accuracy in short-term predictions and its usefulness as a real-time tool to help guide policy and planning.

## Forecast Inclusion and Assumptions
































The forecast 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/covid-19-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](https://github.com/cdcepi/COVID-19-Forecasts/blob/master/COVID-19_Forecast_Model_Descriptions.md). The list below includes all models that submitted a national- or state-level forecast.

Forecasts fall into one of two 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)
  - [Google and Harvard School of Public Health](#) (Model: Google-HSPH)
  - [Johns Hopkins University, Infectious Disease Dynamics Lab](#) (Model: JHU-IDD)
  - [Predictive Science Inc.](#) (Model: PSI)
  - [University of California, Los Angeles](#) (Model: UCLA)
- These modeling 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)
- [Georgia Institute of Technology, College of Computing](#)  (Model: GT-DeepCOVID)
- [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)
- [London School of Hygiene and Tropical Medicine](#)  (Model: LSHTM)
- [Los Alamos National Laboratory](#)  (Model: LANL)
- [Massachusetts Institute of Technology, COVID-19 Policy Alliance](#)  (Model: MIT-CovAlliance)
- [Massachusetts Institute of Technology, Laboratory of Computational Physiology](#)  (Model: MIT-LCP)
- [Massachusetts Institute of Technology, Operations Research Center](#)  (Model: MIT-ORC)
- [Microsoft AI](#)  (Model: Microsoft)
- [Northeastern University, Laboratory for the Modeling of Biological and Socio-technical Systems](#)  (Model: MOBS)
- [Oliver Wyman](#)  (Model: Oliver Wyman)
- [Qi-Jun Hong](#)  (Model: QJHong)
- [Rensselaer Polytechnic Institute and University of Washington](#)  (Model: RPI-UW)
- [Robert Walraven](#)  (Model: ESG)
- [Signature Science](#)  (Model: SignatureScience)
- [Steve McConnell](#)  (Model: CovidComplete)
- [State University of New York, Upstate Medical University](#)  (Model: SUNY)
- [University of Arizona](#)  (Model: UA)
- [University of California, Merced](#)  (Model: UCM)
- [University of California, Santa Barbara](#)  (Model: UCSB)
- [University of California, San Diego and Northeastern University](#)  (Model: UCSD-NEU)
- [University of Georgia, Center for the Ecology of Infectious Disease](#)  (Model: UGA-CEID)
- [University of Massachusetts, Amherst](#)  (Models: UMass-MB and Ensemble)
- [University of Michigan](#)  (Model: UM)
- [University of Southern California](#)  (Model: USC)
- [University of Texas, Austin](#)  (Model: UT)
- [Walmart Labs Data Science Team](#)   (Model: Walmart)

<sup>1</sup> 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: Deaths](#)

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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](#)

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[Ensemble Forecasts of Coronavirus Disease 2019 \(COVID-19\) in the U.S.](#) 

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