



## Influenza (Flu)

[Influenza \(Flu\) Home](#)

# Forecasts of Flu Hospitalizations

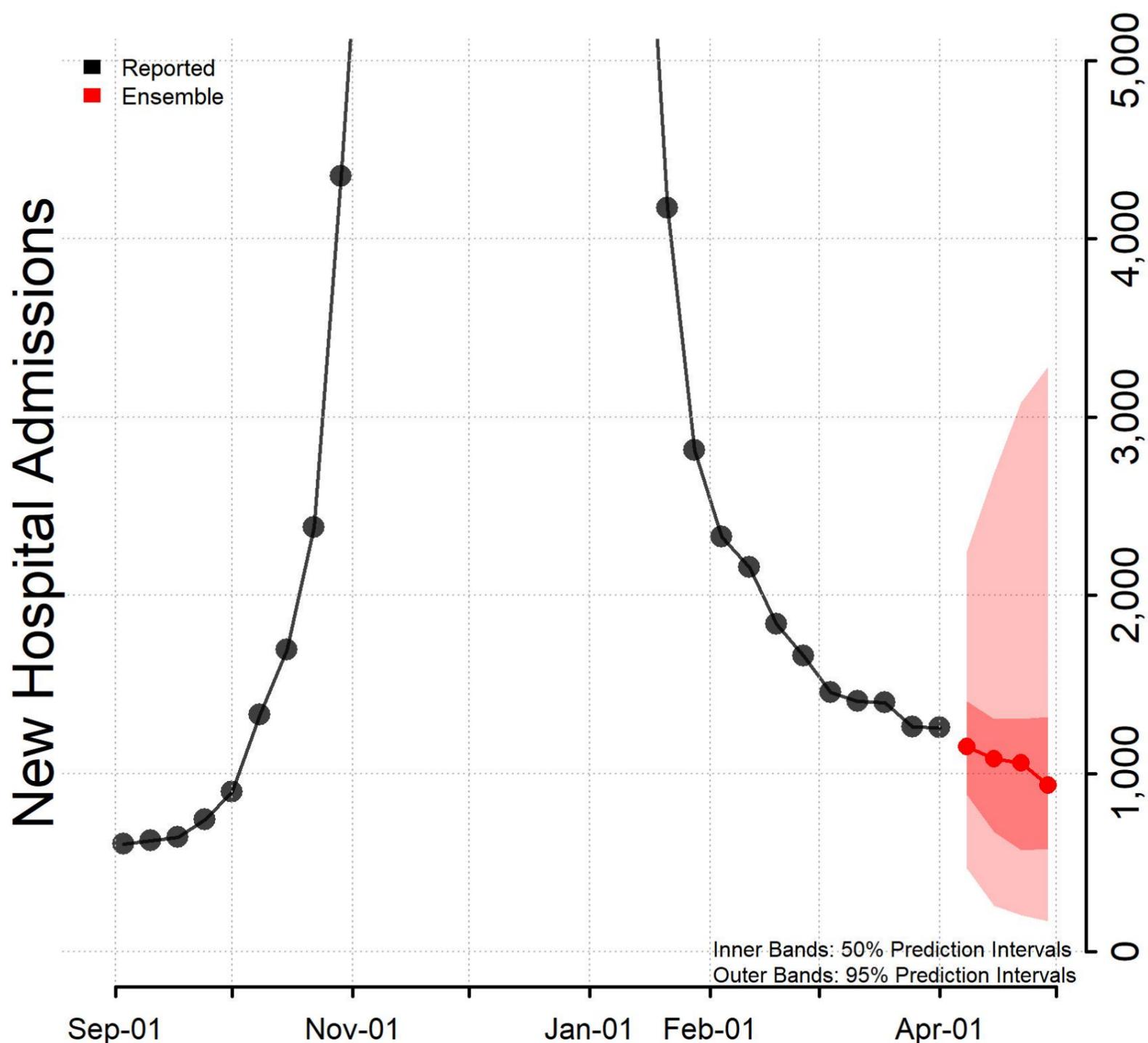
Updated April 5, 2023

## Reported and forecasted new influenza hospitalizations as of April 4, 2023.

### Interpretation of National Forecasts of New Hospitalizations

- This week's ensemble predicts that the number of new weekly confirmed influenza hospital admissions will remain stable or have an uncertain trend nationally, with **170 to 3,300** new confirmed influenza hospital admissions likely reported in the week ending April 29, 2023.
- This week, 17 modeling groups contributed 18 forecasts that were eligible for inclusion in the ensemble forecasts for at least one jurisdiction. Contributing teams are listed below.
- Ensemble forecasts combine forecasts from diverse models into one forecast. They have been among the most reliable forecasts in performance for previous influenza and COVID-19 forecasting efforts, but even the ensemble forecasts may not reliably predict rapid changes.
- The figure shows the number of new confirmed influenza hospital admissions reported in the United States each week from September 1 through April 1 and forecasted new influenza hospital admissions per week over the next 4 weeks, through April 29. Hospitals are required to report laboratory-confirmed influenza hospitalizations to HHS Protect daily. [See COVID-19 Guidance for Hospital Reporting and FAQs](#)   for additional details on this guidance.

# National Forecast



[Download all national data](#) [XLS - 10 KB]

## State Forecasts

State-level forecasts show the predicted number of new influenza hospital admissions per week for the next 4 weeks by state. Each state forecast figure uses a different scale due to differences in the number of new influenza hospital admissions per week between states and only forecasts included in the ensemble are shown. Plots of the state-level ensemble forecasts and the underlying data can be downloaded below.

[Download state forecasts](#) [PDF - 757 KB]

[Download all forecast data](#) [XLS - 339 KB]

Additional forecast data and information about submitting forecasts are available at <https://github.com/cdcepi/Flusight-forecast-data>.

## Contributing Teams

- [California Department of Public Health \(CADPH\)](#) (Model: FluCAT)
- [Carnegie Mellon Delphi Group](#) (Model: CMU-TimeSeries)
- [CEPH Lab at Indiana University](#) (Model: Rtrend\_fluH)

- [Fogarty International Center, National Institutes of Health \(NIH\)](#)  (Model: Flu\_ARIMA)
- [Georgia Institute of Technology](#)  (Model: GT-FluFNP)
- [Los Alamos National Lab and Northern Arizona University](#)  (Model: LosAlamos\_NAU-CModel\_Flu)
- [MIGHTE](#)  (Model: Nsemble)
- [MOBS Lab at Northeastern](#)  (Model: MOBS-GLEAM\_FLUH)
- [Predictive Science Inc](#)  (Model: PSI-DICE)
- [Signature Science](#)  (Model: SigSci-CREG)
- [Signature Science](#)  (Model: SigSci-TSENS)
- [Srivastava Group](#)  (Model: SGroup-RandomForest)
- [UGA\\_flucast](#)  (Model: UGA\_flucast-OKeeffe)
- [UNC Infectious Disease Dynamics](#)  (Model: InFluPaint)
- [University of Georgia Center for the Ecology of Infectious Diseases Forecasting Working Group](#)  (Model: CEID-Walk)
- [University of Massachusetts-Amherst](#)  (Model: UMass-trends\_ensemble)
- [University of Virginia, Biocomplexity Institute](#)  (Model: UVAFluX-Ensemble)
- [Virginia Tech, Sanghani Center for Artificial Intelligence and Data Analytics](#)  (Model: VTSanghani-ExogModel)

Last Reviewed: April 5, 2023