

Influenza (Flu)



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Forecasts of Flu Hospitalizations

Updated May 17, 2023

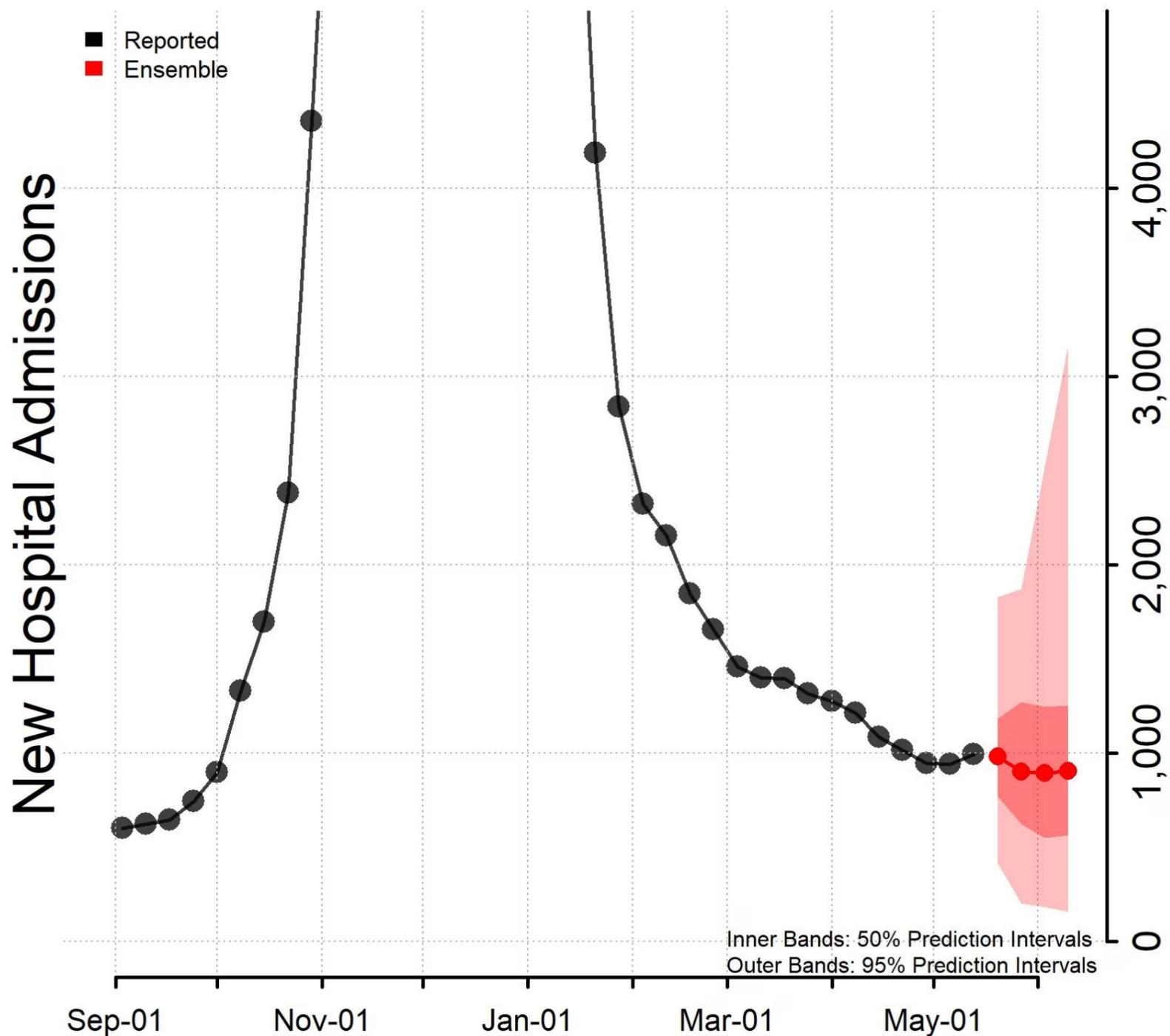
Flu forecasting summaries for the 2023-2024 season will begin again in fall 2023. The May 17, 2023, forecast summary below was the last of the 2022-2023 season.

Reported and forecasted new influenza hospitalizations as of May 16, 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 **160 to 3,200** new confirmed influenza hospital admissions likely reported in the week ending June 10, 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 May 13 and forecasted new influenza hospital admissions per week over the next 4 weeks, through June 10. Hospitals are required to report laboratory-confirmed influenza hospitalizations to HHS Protect daily. [See COVID-19 Guidance for Hospital Reporting and FAQs](#)  [680 KB, 52 pages]  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 - 788 KB]

[Download all forecast data](#) [XLS - 338 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)

- [Columbia University](#) (Model: CU-ensemble)
- [Fogarty International Center, National Institutes of Health \(NIH\)](#) (Model: Flu_ARIMA)
- [Johns Hopkins ID Dynamics](#) (Model: CovidScenarioPipeline)
- [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-OKeefe)
- [UNC Infectious Disease Dynamics](#) (Model: InluPaint)
- [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: May 17, 2023