



COVID-19

COVID-19 Forecasting and Mathematical Modeling

Updated Aug. 7, 2020

Omicron Spread

CDC is monitoring the current surge of COVID-19 cases. Learn more about the Omicron variant and its expected impact on hospitalizations.

[About Omicron](#)[Hospitalization Forecast](#)

Mathematical modeling helps CDC and partners respond to the COVID-19 pandemic by informing decisions about pandemic planning, resource allocation, and implementation of social distancing measures and other interventions.

Case Forecasts

[New Cases](#)[Previous Case Forecasts](#)

Death Forecasts

[New and Total Deaths](#)[Previous Death Forecasts](#)

Hospital Forecasts

[New Hospitalizations](#)[Previous Hospitalization Forecasts](#)

Other Resources

[Why COVID-19 Forecasting Is Important](#)[COVID-19 Surge Tool](#)[COVID-19 Pandemic Planning Scenarios](#)