

## **References for use in modeling of COVID-19 cases, deaths and hospitalizations**

To assist in the planning for COVID-19 response, the Centers for Disease Control and Prevention (CDC) has compiled predictive modeling resources for use by the public. These resources provide forecasting information for COVID-19 cases, hospitalizations and deaths, in both graphical forms and as data download for additional analysis.

Individual models are presented for comparison purposes along with an “ensemble” forecast which combines each of the independently developed forecasts into one aggregate forecast to improve prediction over the next 4 weeks.

Background information regarding how these models were created and how they are interpreted can be found [here](#), along with an explanation of the “ensemble” forecast [here](#), to assist understanding the methodology and usefulness.

### **COVID-19 case forecasting models:**

- Case forecasting at the State & County levels are available [here](#), and allows for comparisons between states and jurisdictions along with the ability to download the data use for the forecasting in a \*.csv format.

### **COVID-19 hospitalization forecasting models:**

- Nine national forecasts and ten state-level models are available [here](#) and are used to show the predicted number of new COVID-19 hospitalizations per day for the next four weeks in the United States.

### **COVID-19 deaths forecasting models:**

- National and State level models are available for forecasting new deaths over the next four weeks are available [here](#).

SC DHEC is sharing this information to assist for both policy and planning purposes.