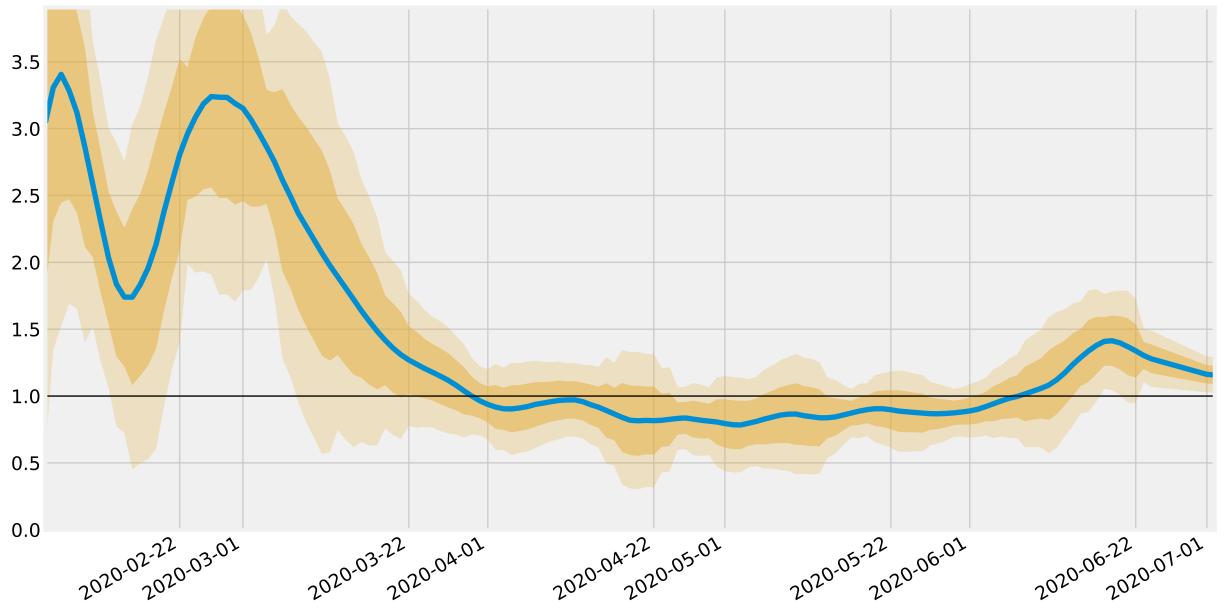
Reproduction Rate (R_t) Estimate United States



Legend R_t : weighted_average

Reference Line: $R_t = 1$ 68% Confidence Interval

95% Confidence Interval

Parameters Used

 $D_{incubation}: 3.0$

 $D_{infectious}$: 4.0 $D_{tohospital}$: 7.0

D_{inhospital}: 11.0

 $D_{tildeath}: 17.0$

 $Rate_{Hospitalization}: 4.00\%$

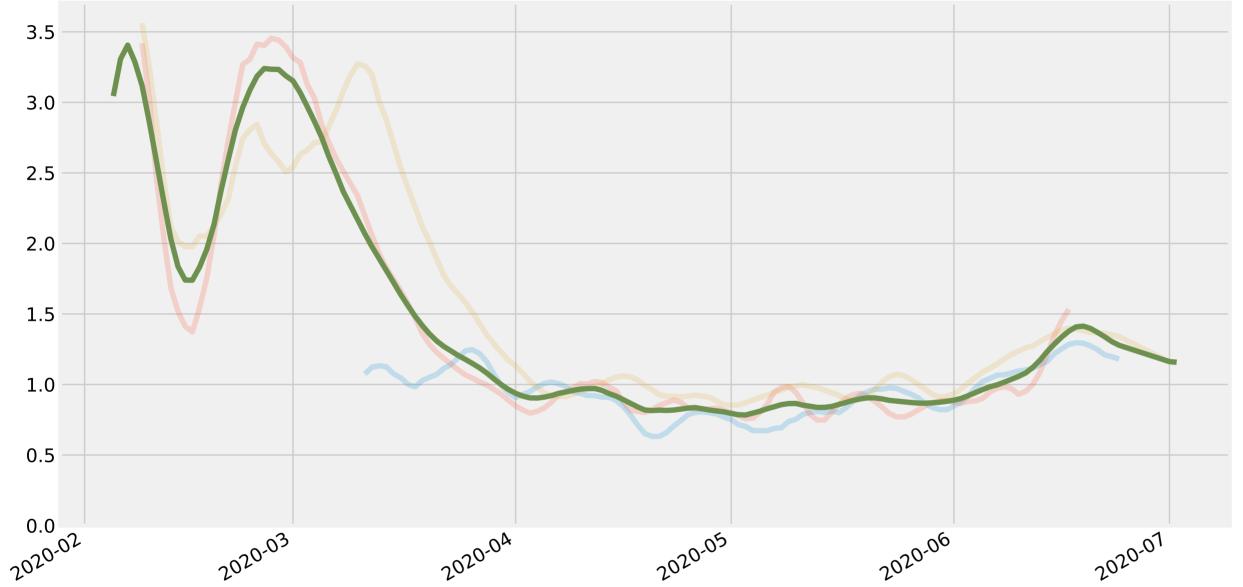
Rate_{ICU}: 31.71%

Rate_{Ventilator}: 40.00%

 $Rate_{Mortality}: 1.00\%$

 $BasicR_0:3.4$

Reproduction Rate (R_t) Estimates United States: No Change in Future R_t Until 20% Hospital Capacity Trigger Scenario

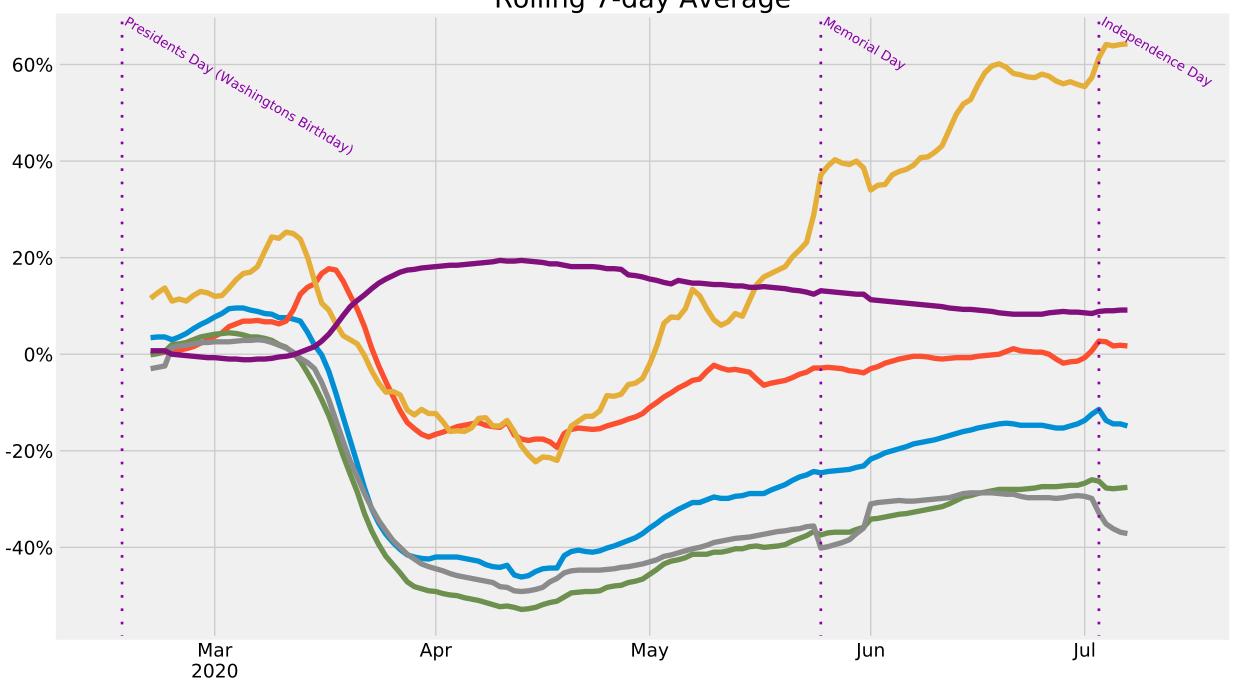


Reproduction Factor Estimates

test_share
deaths_daily
cases_daily
weighted_average

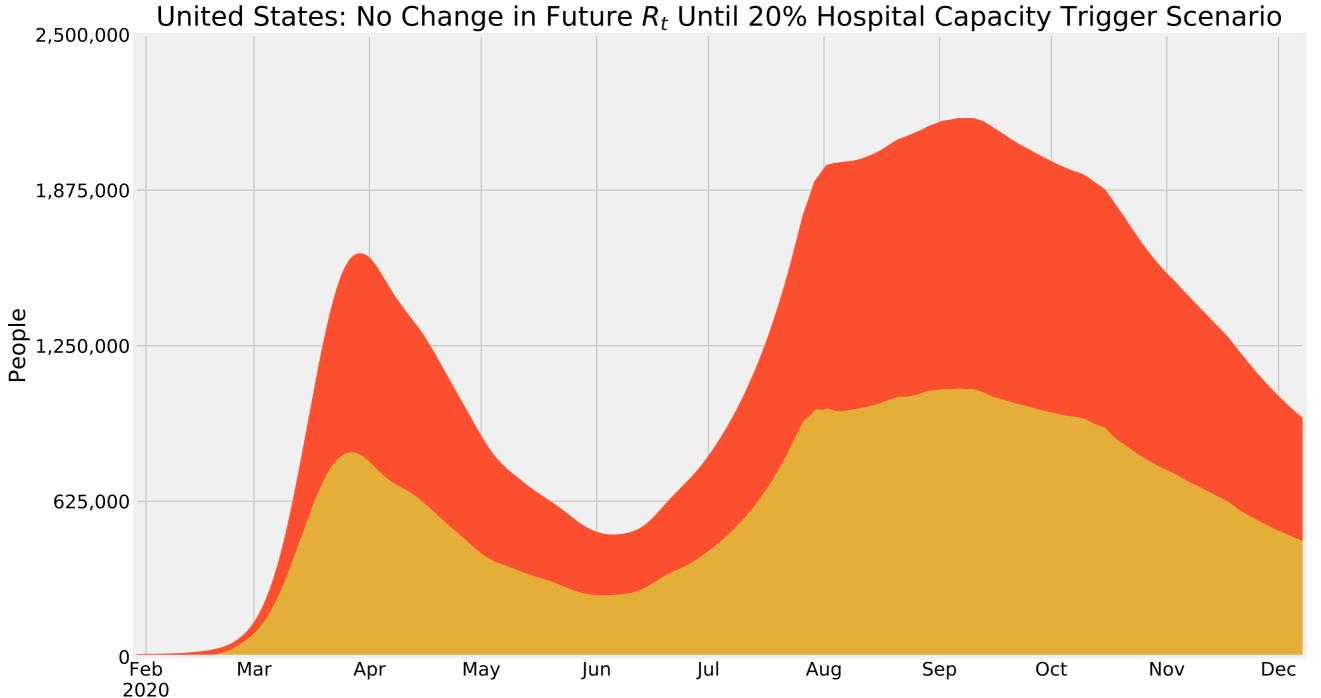
Parameters Used $D_{incubation}$: 3.0 $D_{infectious}$: 4.0 $D_{tohospital}$: 7.0 $D_{inhospital}$: 11.0 $D_{tildeath}$: 17.0 $Rate_{Hospitalization}$: 4.00% $Rate_{ICU}$: 31.71% $Rate_{Ventilator}$: 40.00% $Rate_{Mortality}$: 1.00% $Rate_{Mortality}$: 1.00% $Rate_{Mortality}$: 3.4

United States: Google Movement Data Rolling 7-day Average





Simultaneous Infections Forecast



Lext Axis LegendExposed PopulationInfectious Population

Parameters Used

 $D_{incubation}: 3.0$

 $D_{infectious}$: 4.0 $D_{tohospital}$: 7.0

D_{inhospital}: 11.0

 $D_{tildeath}: 17.0$

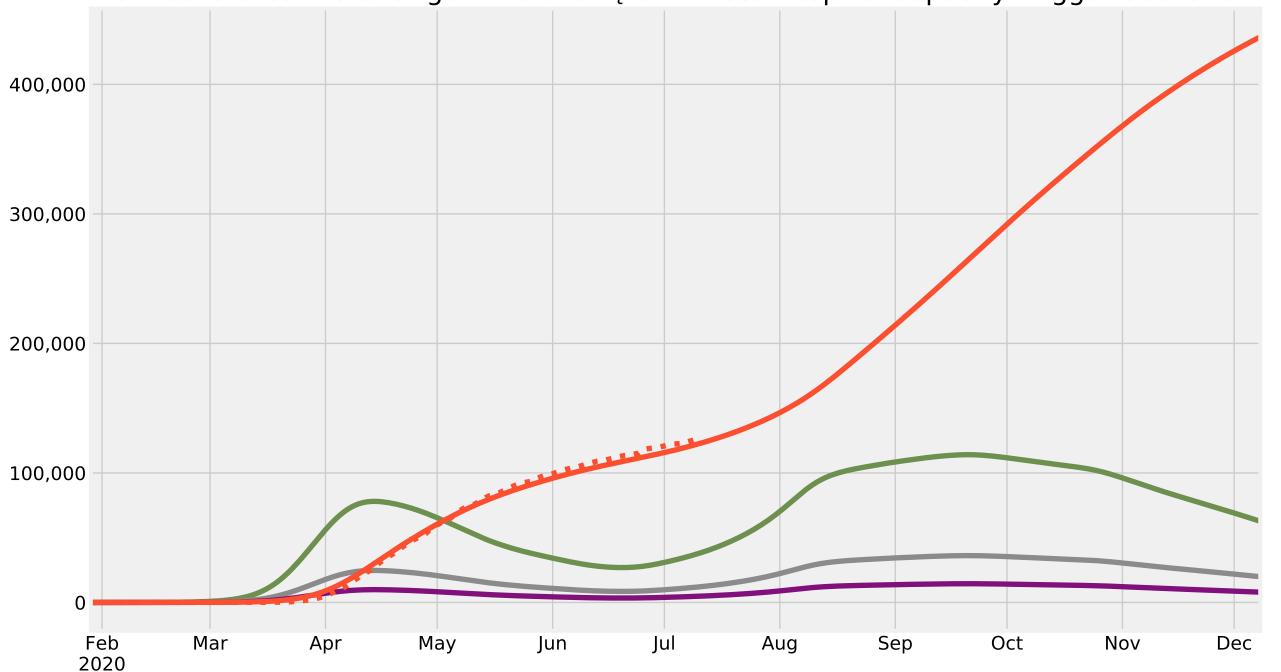
 $Rate_{Hospitalization}: 4.00\%$

Rate_{ICU}: 31.71%

 $Rate_{Ventilator}$: 40.00% $Rate_{Mortality}$: 1.00%

 $BasicR_0: 3.4$

Hospitalization and Deaths Forecast United States: No Change in Future R_t Until 20% Hospital Capacity Trigger Scenario





Parameters Used

 $D_{incubation}: 3.0$ $D_{infectious}$: 4.0 $D_{tohospital}$: 7.0

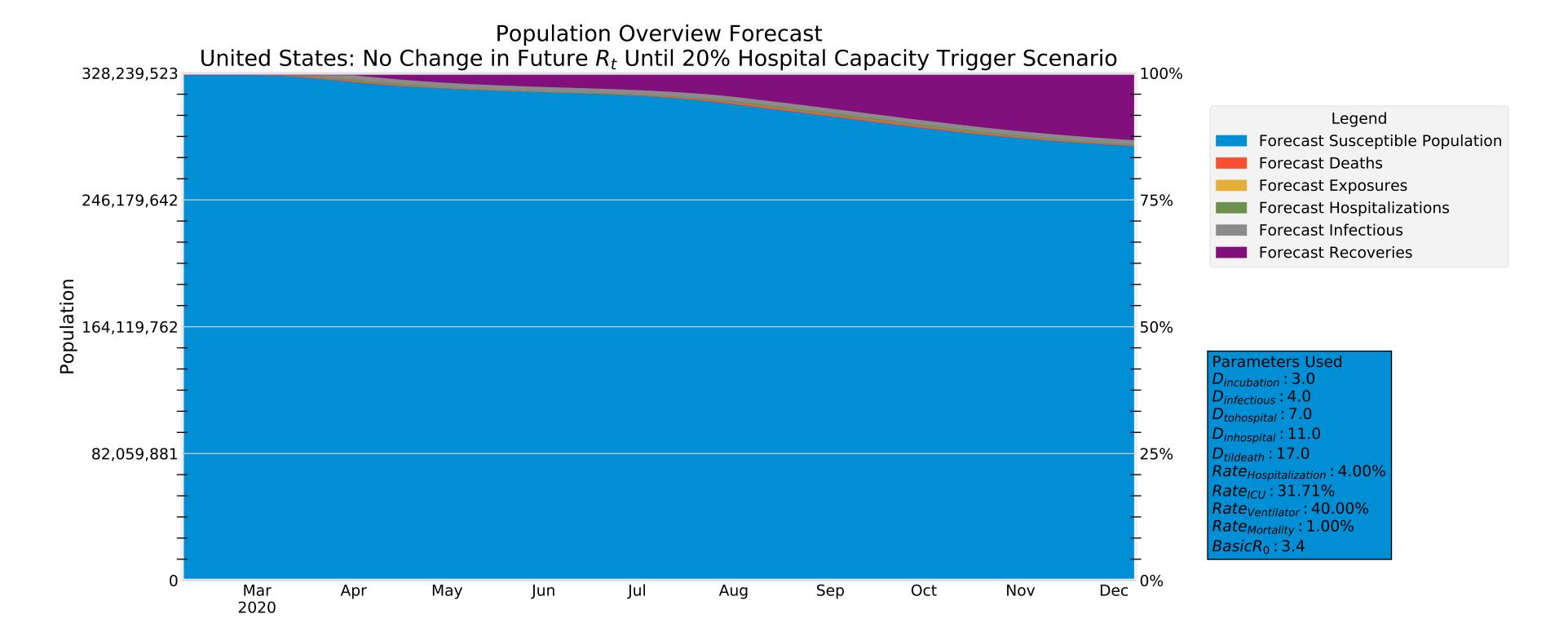
 $D_{inhospital}: 11.0$

 $D_{tildeath}: 17.0$

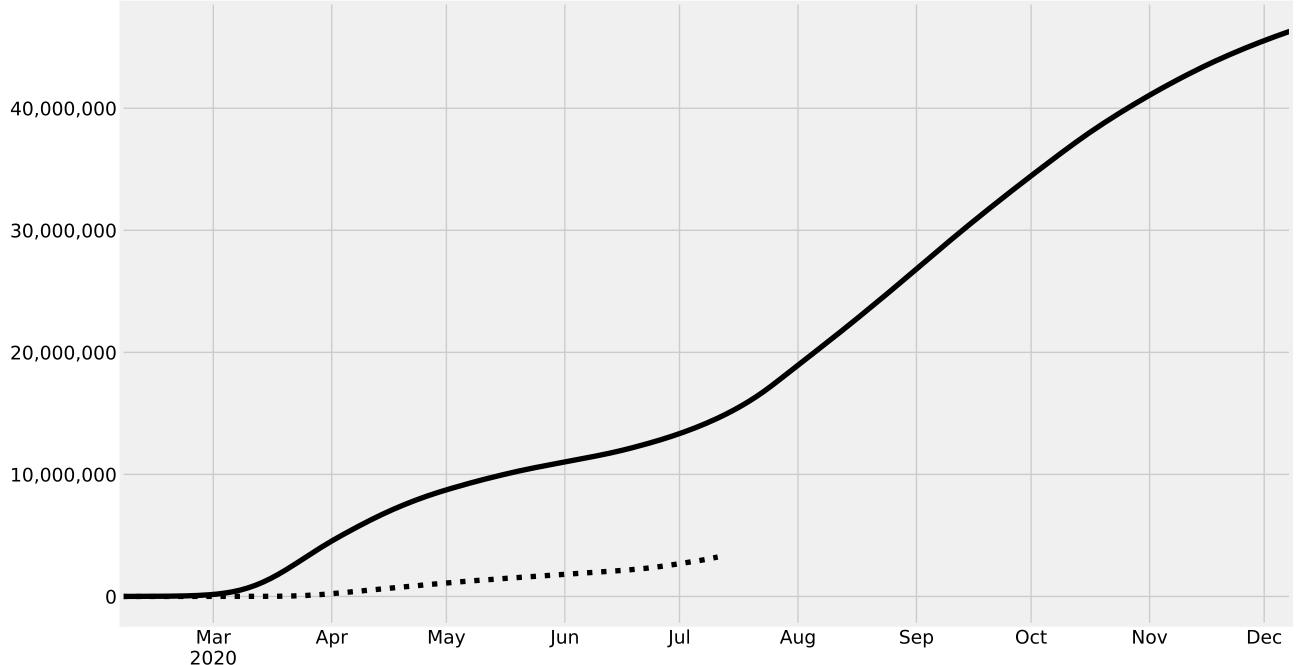
 $Rate_{Hospitalization}: 4.00\%$

Rate_{ICU}: 31.71% Rate_{Ventilator}: 40.00% Rate_{Mortality}: 1.00%

 $BasicR_0: 3.4$



Cumulative Infections Forecast United States: No Change in Future R_t Until 20% Hospital Capacity Trigger Scenario



Legend
Forecast Cumulative Infections
Reported Cumulative Infections

Parameters Used

 $D_{incubation}: 3.0$

D_{infectious}: 4.0 D_{tohospital}: 7.0

 $D_{inhospital}: 11.0$

 $D_{tildeath}: 17.0$

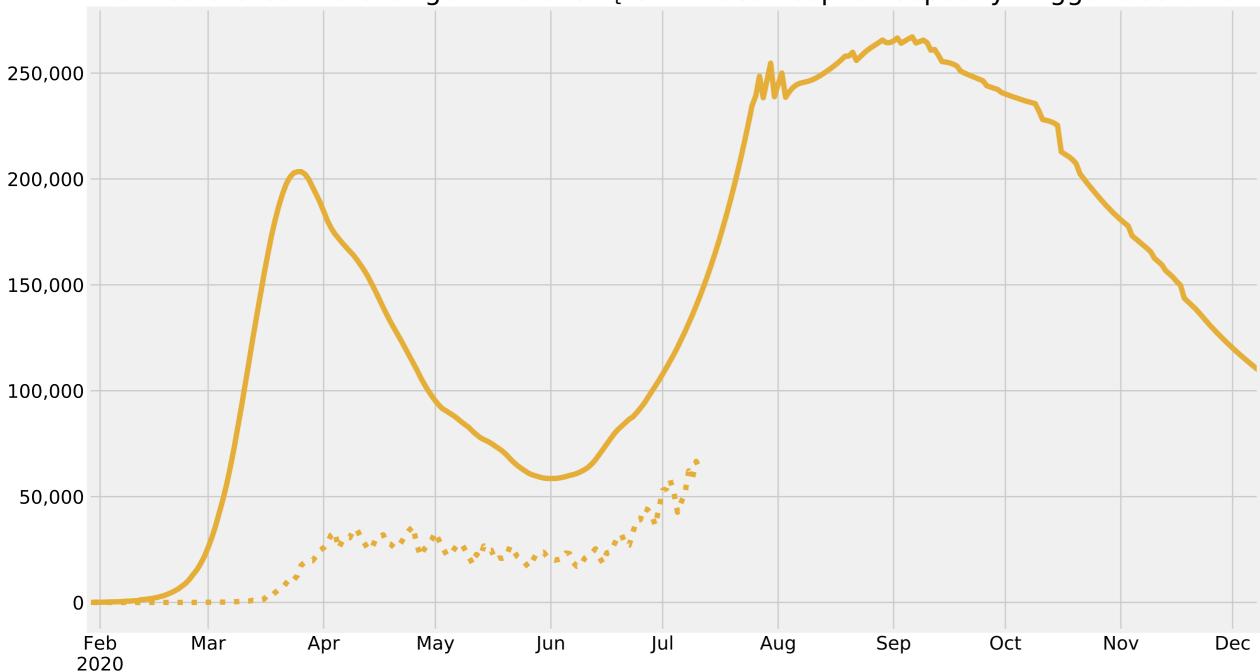
Rate_{Hospitalization}: 4.00%

Rate_{ICU}: 31.71%

 $Rate_{Ventilator}$: 40.00% $Rate_{Mortality}$: 1.00%

 $BasicR_0: 3.4$

Daily Exposures Forecast United States: No Change in Future R_t Until 20% Hospital Capacity Trigger Scenario



Legend

Forecast Daily New Infections (Exposed)

Reported Daily New Infections (Exposed)

Parameters Used

 $D_{incubation}$: 3.0 $D_{infectious}$: 4.0

 $D_{tohospital}:7.0$

D_{inhospital}: 11.0

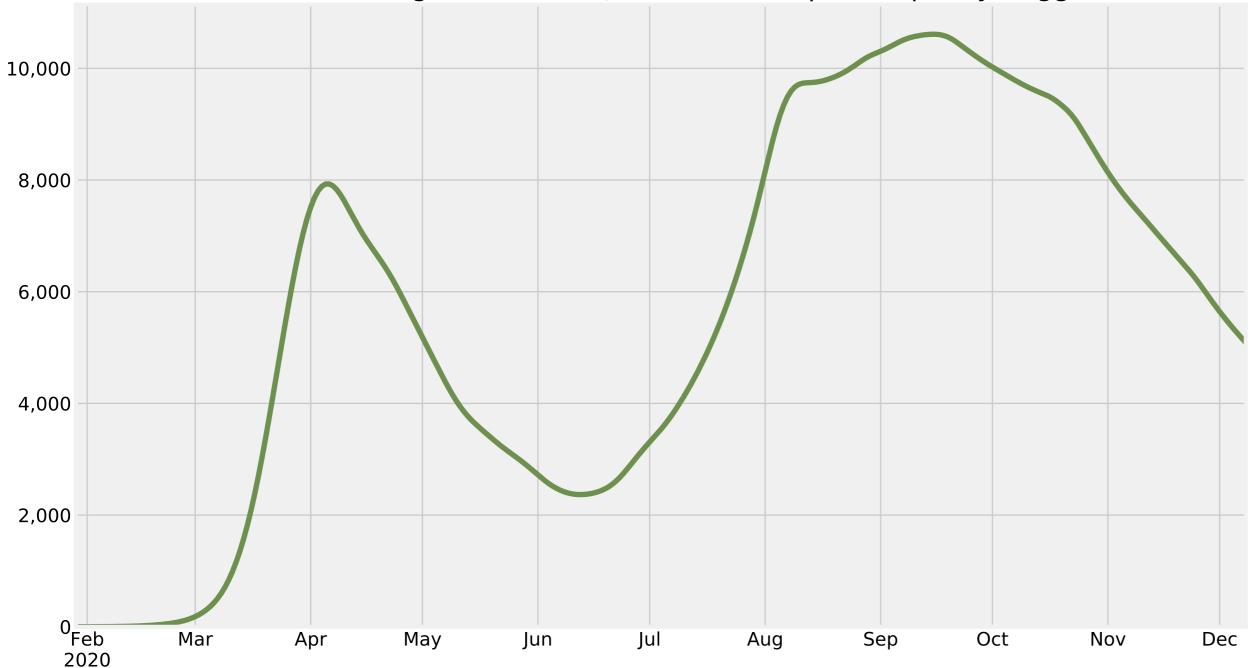
 $D_{tildeath}: 17.0$

Rate_{Hospitalization}: 4.00%

 $Rate_{ICU}$: 31.71% $Rate_{Ventilator}$: 40.00% $Rate_{Mortality}$: 1.00%

 $BasicR_0:3.4$

Daily Hospital Admissions Forecast United States: No Change in Future R_t Until 20% Hospital Capacity Trigger Scenario



Legend Forecast Hospital Admissions

Parameters Used

 $D_{incubation}: 3.0$

 $D_{infectious}$: 4.0 $D_{tohospital}$: 7.0

D_{inhospital}: 11.0

 $D_{tildeath}$: 17.0

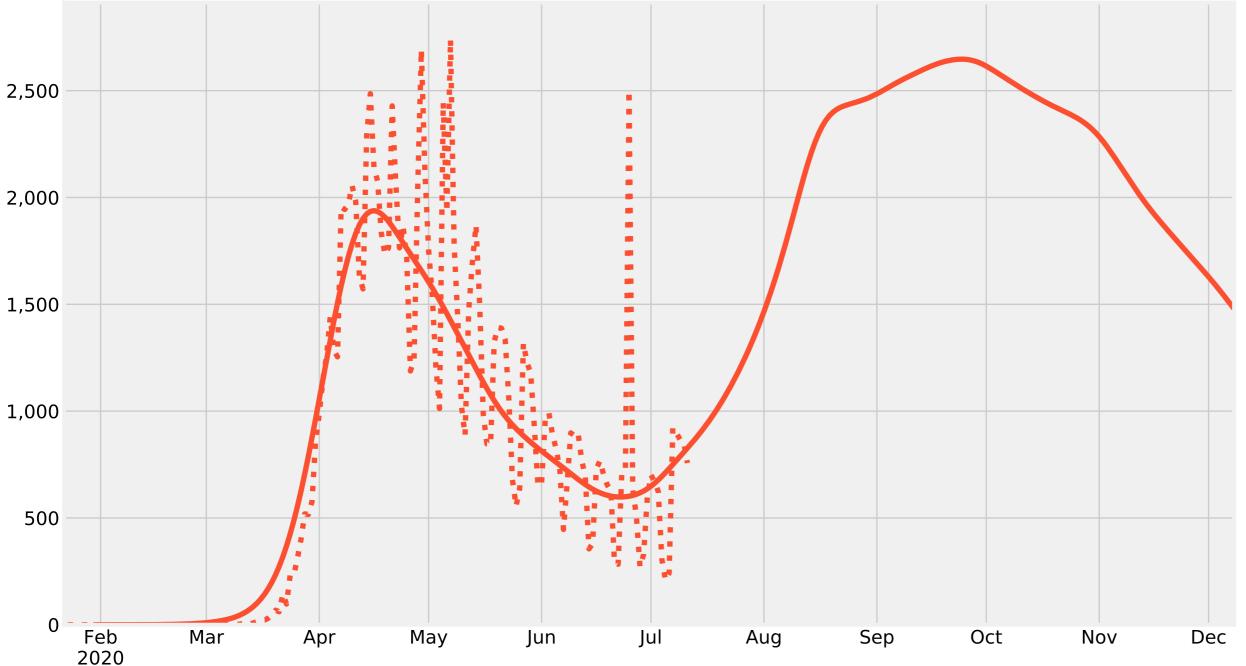
Rate_{Hospitalization}: 4.00%

Rate_{ICU}: 31.71%

 $Rate_{Ventilator}$: 40.00% $Rate_{Mortality}$: 1.00%

 $BasicR_0: 3.4$

Daily Deaths Forecast United States: No Change in Future R_t Until 20% Hospital Capacity Trigger Scenario



LegendForecast Daily DeathsReported Daily Deaths

Parameters Used

D_{incubation}: 3.0

 $D_{infectious}$: 4.0 $D_{tohospital}$: 7.0

 $D_{inhospital}:11.0$

 $D_{tildeath}: 17.0$

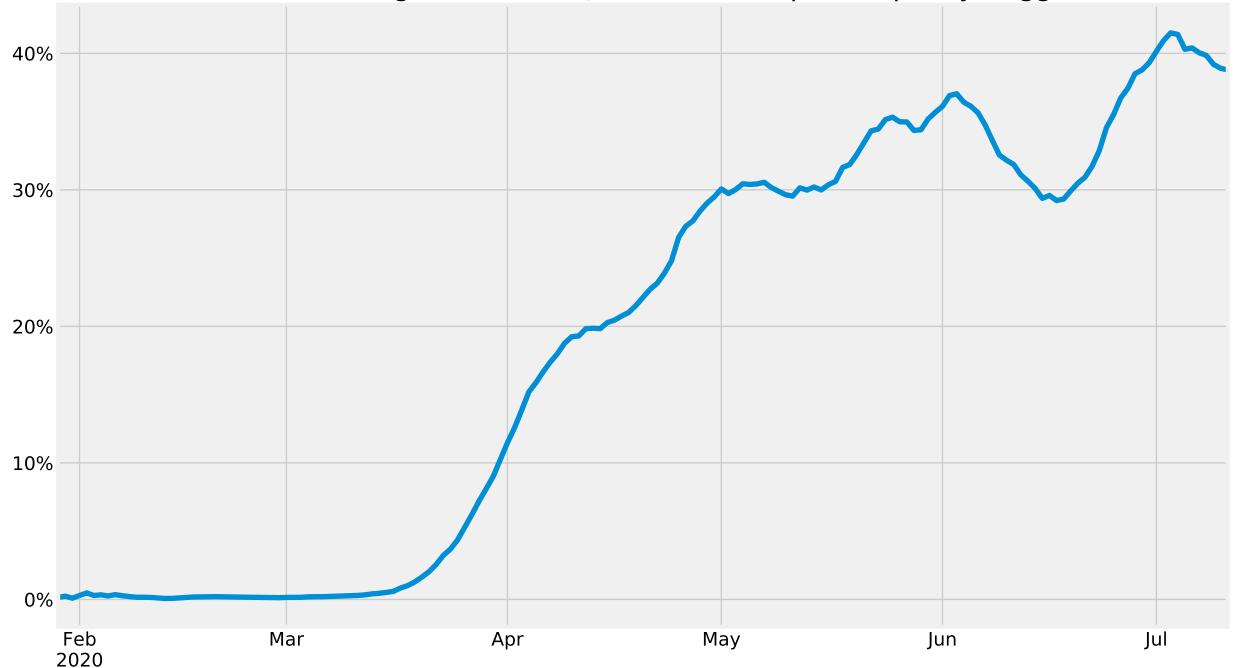
Rate_{Hospitalization}: 4.00%

Rate_{ICU}: 31.71%

 $Rate_{Ventilator}$: 40.00% $Rate_{Mortality}$: 1.00%

 $BasicR_0:3.4$

COVID-19 Daily Infection Detection Rate United States: No Change in Future R_t Until 20% Hospital Capacity Trigger Scenario



Parameters Used

 $D_{incubation}: 3.0$ $D_{infectious}: 4.0$ $D_{tohospital}: 7.0$ $D_{inhospital}: 11.0$

 $D_{tildeath}$: 17.0

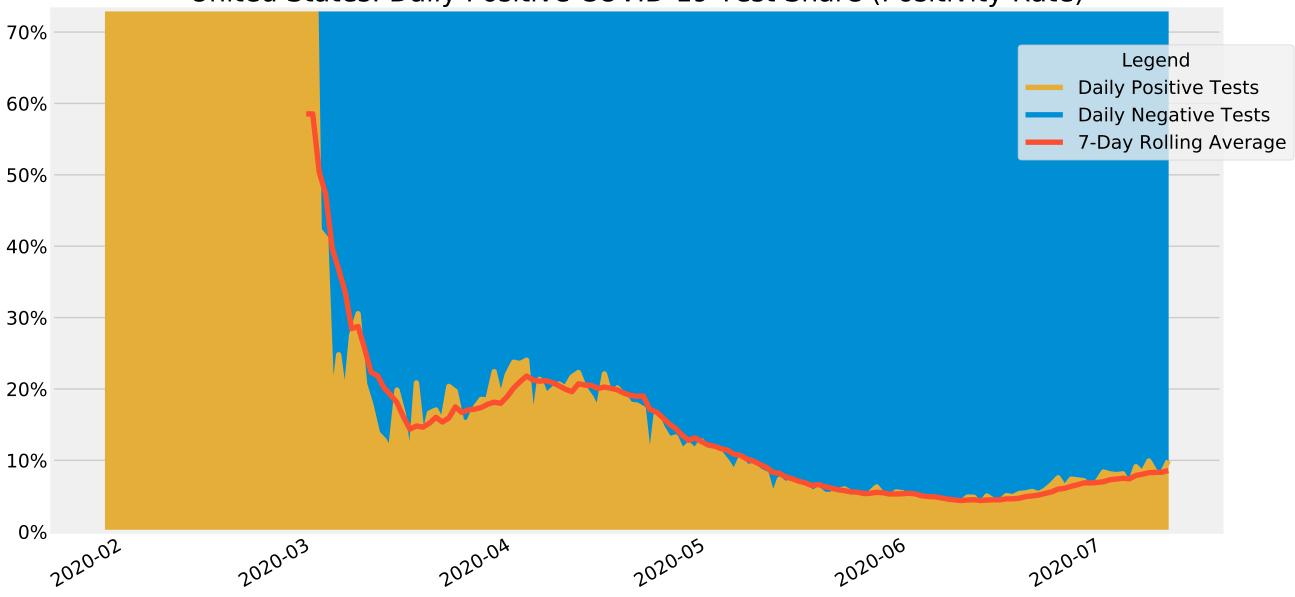
 $Rate_{Hospitalization}: 4.00\%$

Rate_{ICU}: 31.71%

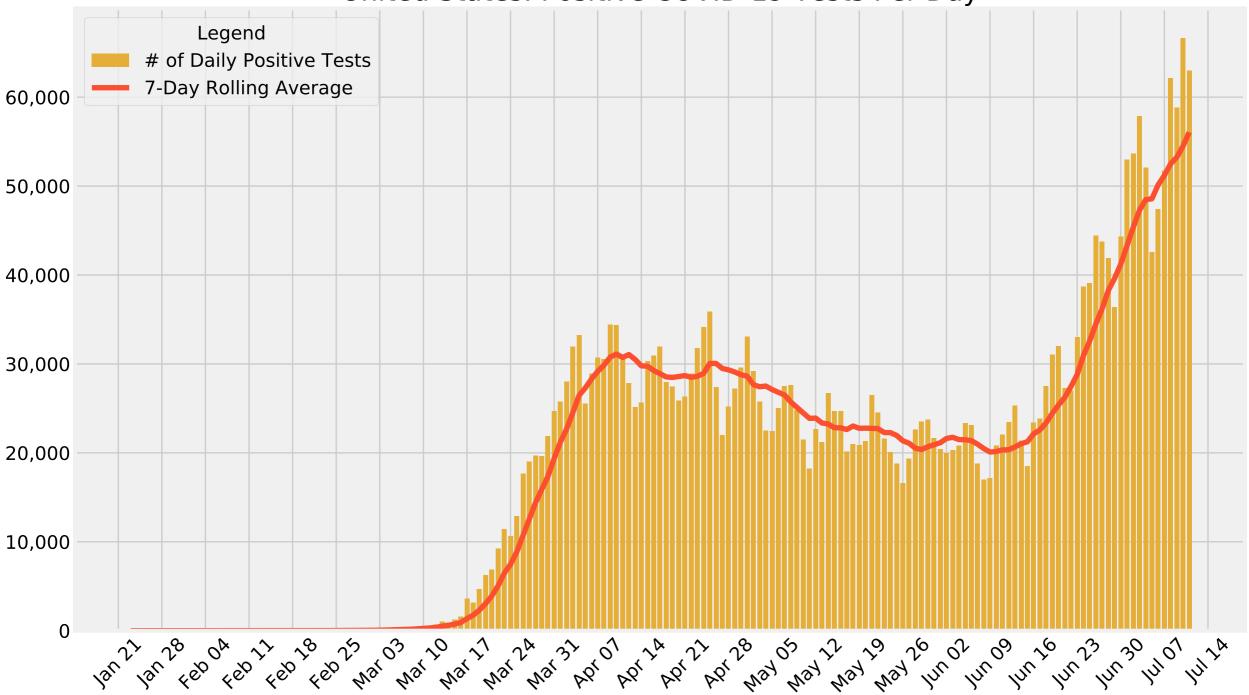
 $Rate_{Ventilator}$: 40.00% $Rate_{Mortality}$: 1.00%

 $BasicR_0:3.4$

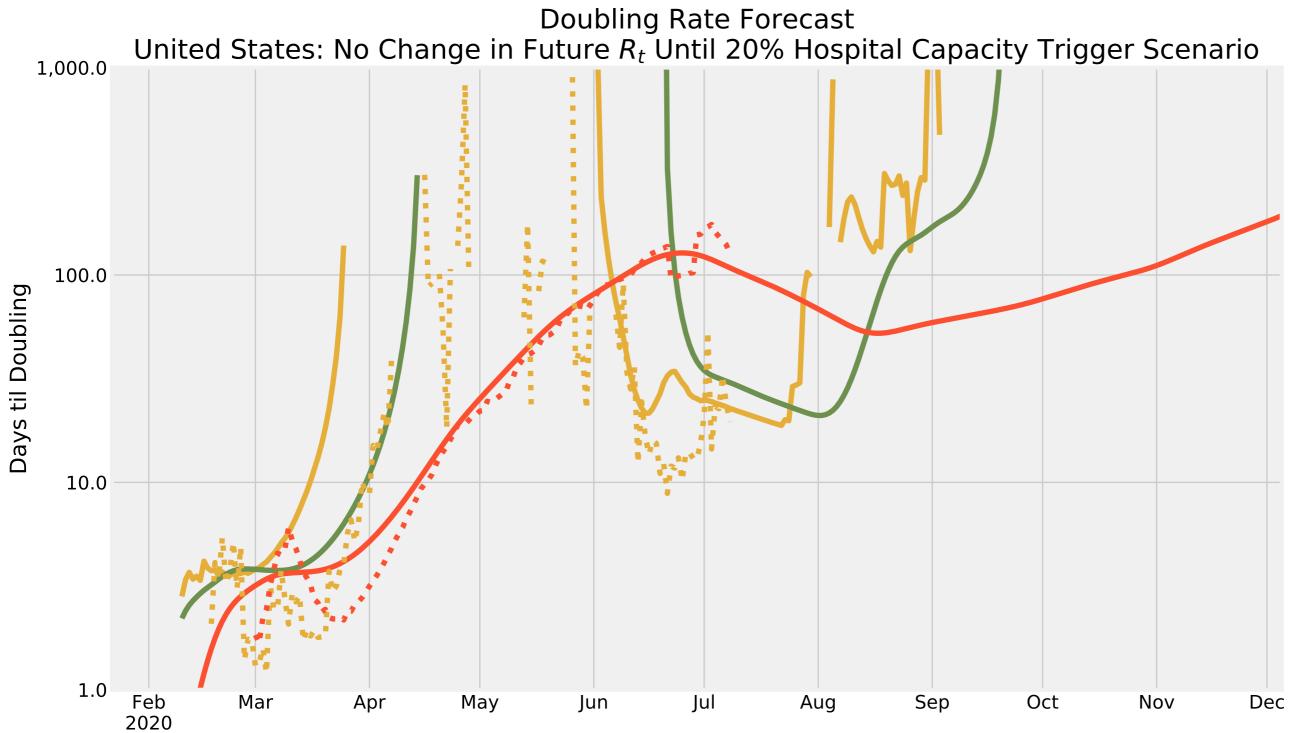
United States: Daily Positive COVID-19 Test Share (Positivity Rate)



United States: Positive COVID-19 Tests Per Day



United States: Total COVID-19 Tests Per Day Legend 800,000 # of Daily Positive Tests # of Daily Negative Tests 7-Day Rolling Average 700,000 600,000 500,000 400,000 300,000 200,000 100,000





Parameters Used

D_{incubation}: 3.0 D_{infectious}: 4.0 $D_{tohospital}:7.0$

 $D_{inhospital}: 11.0$

 $D_{tildeath}: 17.0$ Rate_{Hospitalization}: 4.00%

Rate_{ICU}: 31.71% Rate_{Ventilator}: 40.00% $Rate_{Mortality}: 1.00\%$

 $BasicR_0: 3.4$