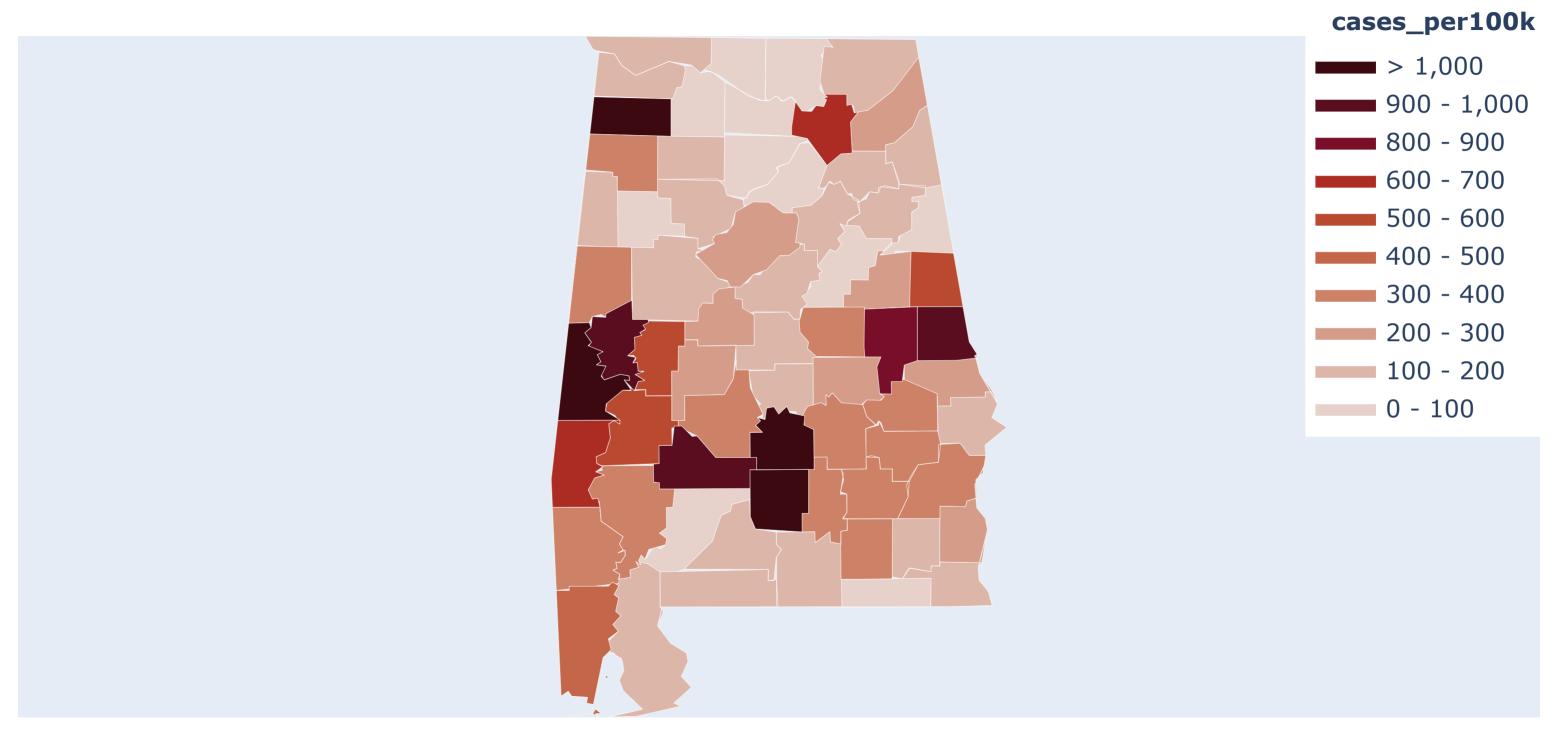
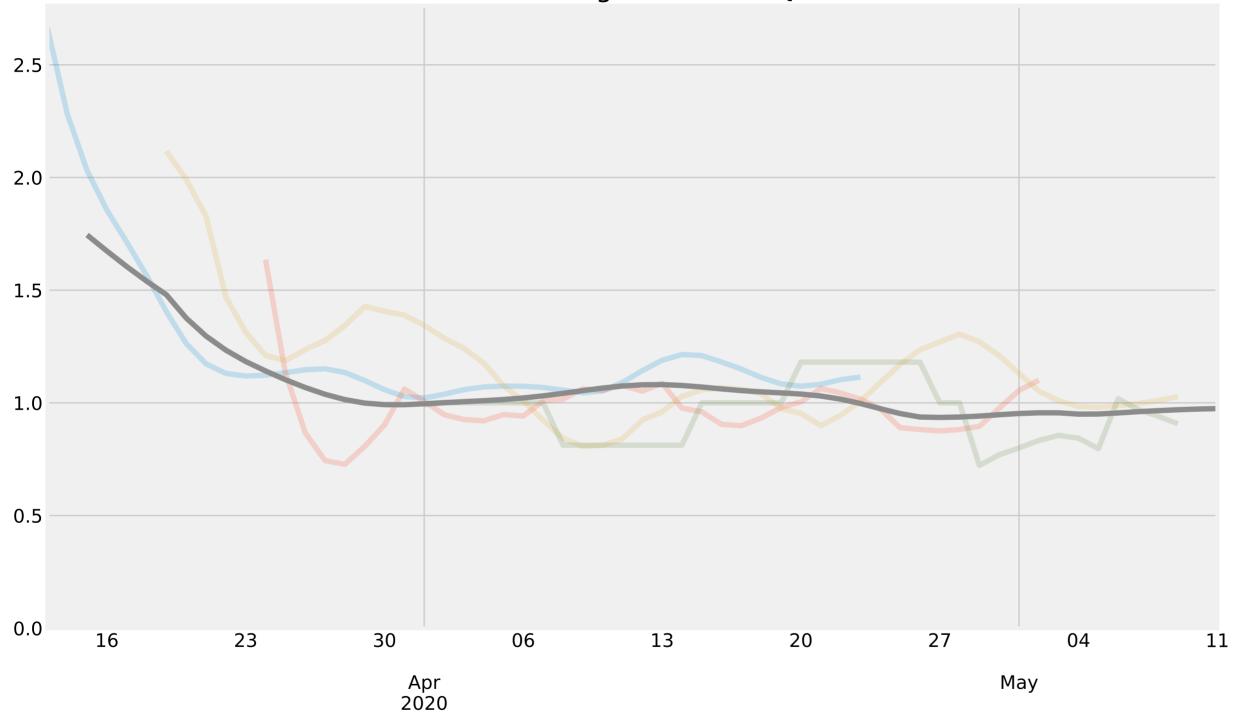
Alabama: COVID-19 Cases Per 100k Residents



Reproduction Rate (R_t) Estimates Alabama: No Change in Future R_t Scenario



rt_deaths_dailyrt_hosp_admits

rt_cases_daily
rt_pos_test_share_daily

___ rt_joint_est

Parameters Used

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

 $D_{tohospital}$: 7.0

 $D_{inhospital}: 11.0$

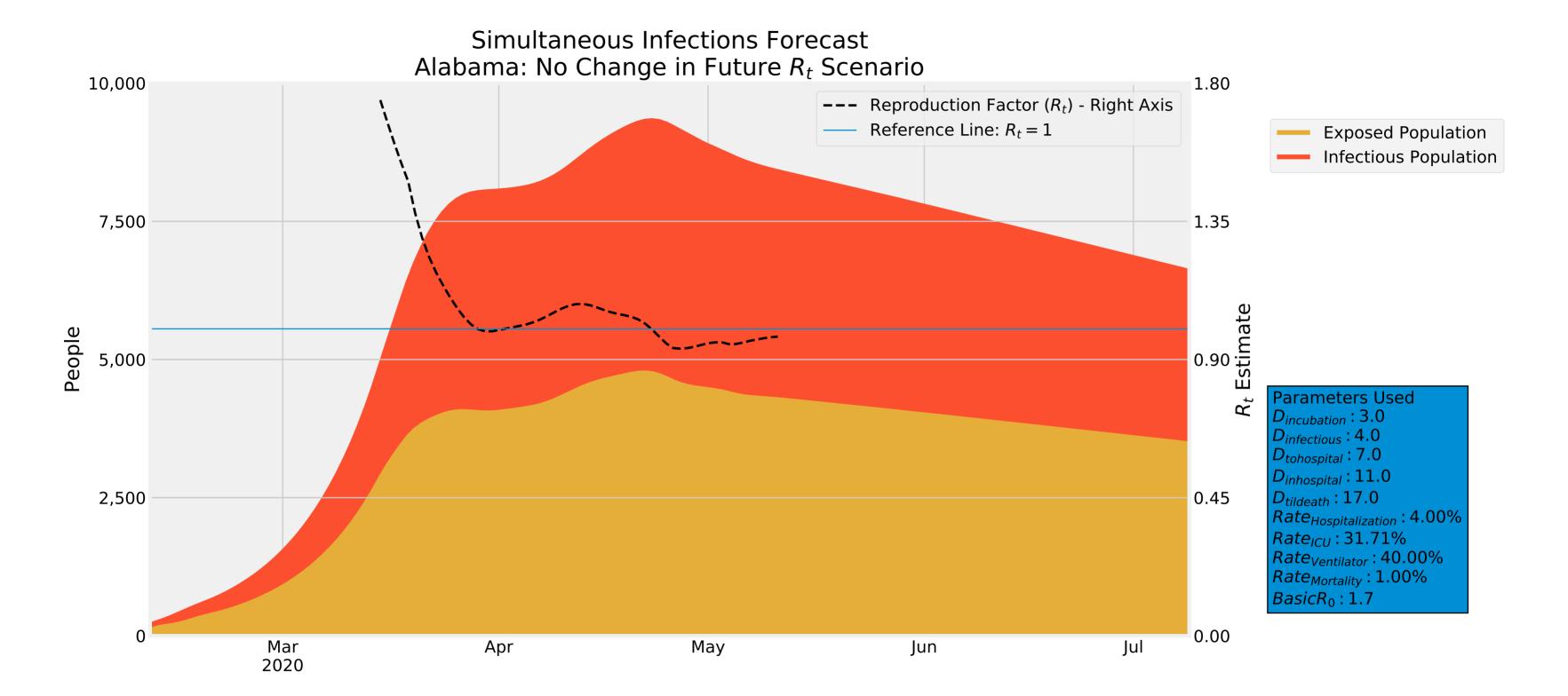
 $D_{tildeath}: 17.0$

 $Rate_{Hospitalization}: 4.00\%$

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

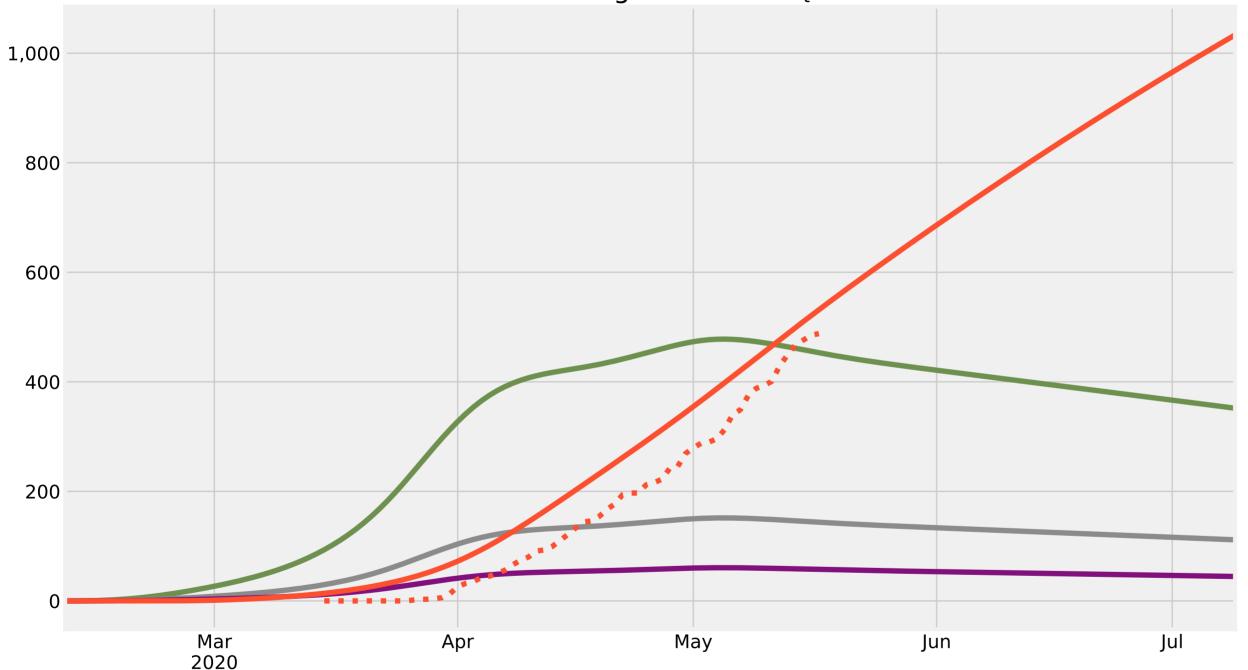
 $BasicR_0: \hat{1.7}$

Author: Michael Donnelly (twtr: @donnellymjd)



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Hospitalization and Deaths Forecast Alabama: No Change in Future R_t Scenario



Forecast Concurrent Hospitalizations

Forecast ICU Cases

Forecast Ventilations

Forecast Cumulative Deaths

Reported Total 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%

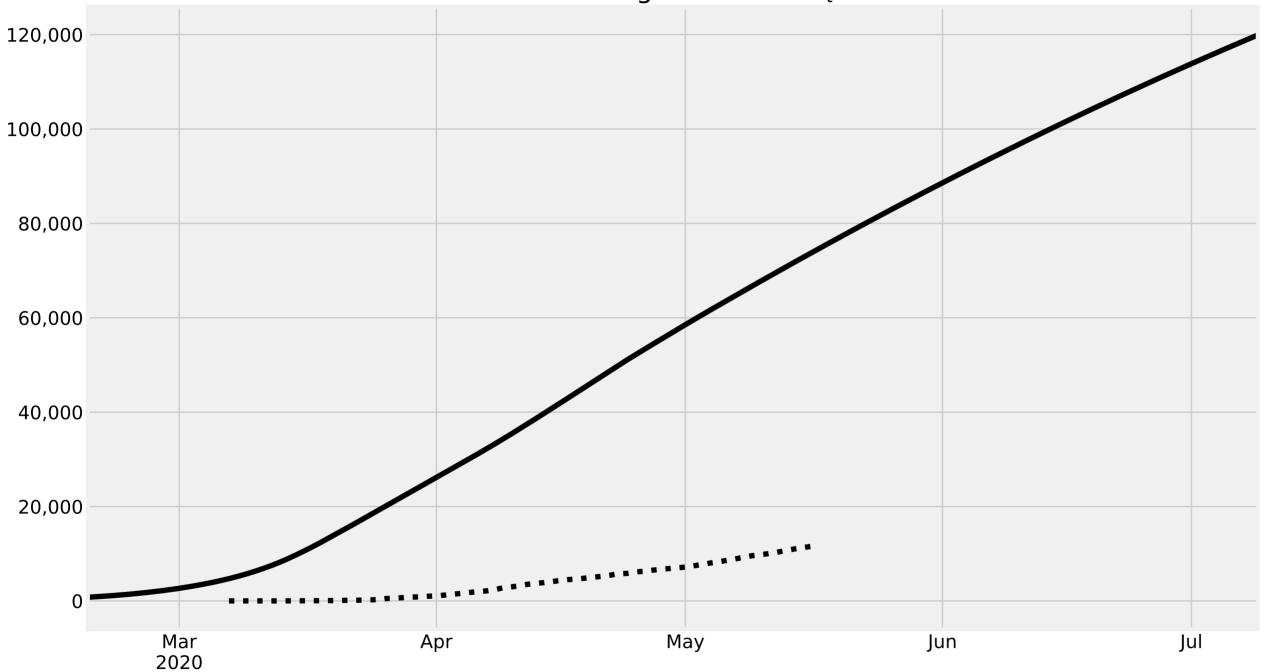
 $BasicR_0: 1.7$

Author: Michael Donnelly (twtr: @donnellymjd)

Population Overview Forecast Alabama: No Change in Future R_t Scenario



Cumulative Infections Forecast Alabama: No Change in Future R_t Scenario



Forecast Cumulative Infections

Reported Cumulative Infections

Parameters Used

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

D_{inhospital}: 11.0

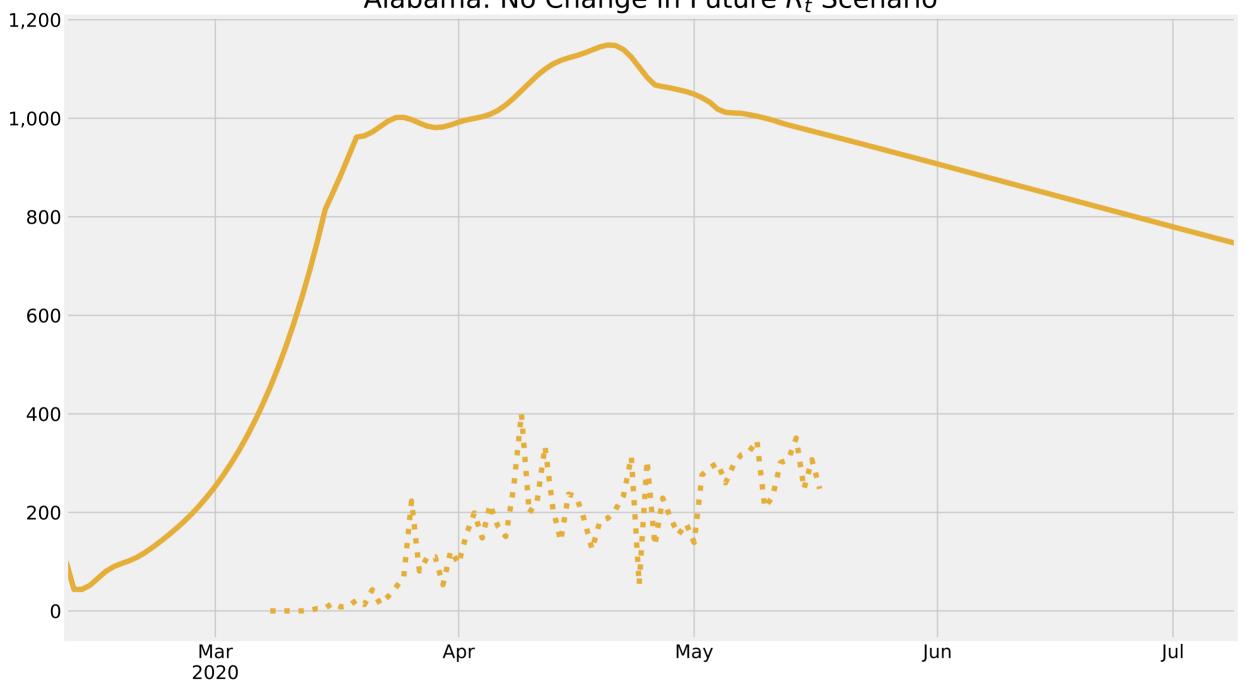
 $D_{tildeath}$: 17.0 $Rate_{Hospitalization}: 4.00\%$

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

 $BasicR_0: 1.7$

Author: Michael Donnelly (twtr: @donnellymjd) Chart created on 18 May 2020

Daily Exposures Forecast Alabama: No Change in Future R_t Scenario



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%

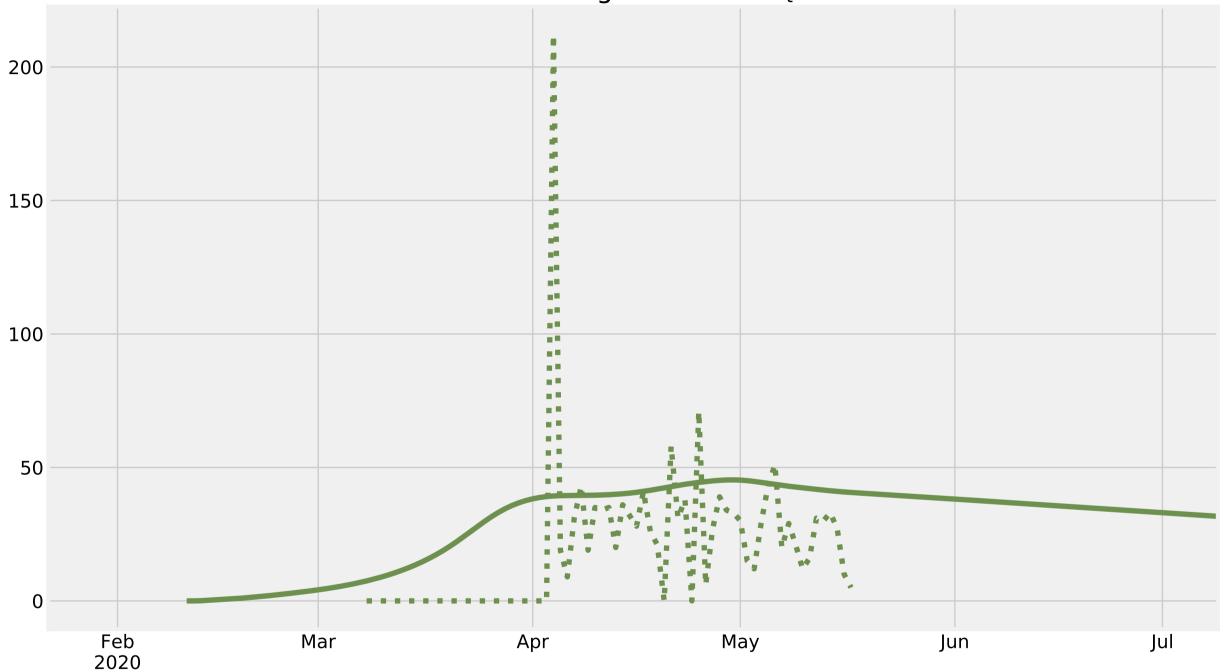
Rate_{ICU}: 31.71%

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

 $BasicR_0: 1.7$

Author: Michael Donnelly (twtr: @donnellymjd) Chart created on 18 May 2020

Daily Hospital Admissions Forecast Alabama: No Change in Future R_t Scenario



Forecast Hospital AdmissionsReported Hospital Admissions

Parameters Used

 $D_{incubation}: 3.0$

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

D_{inhospital}: 11.0

 $D_{tildeath}: 17.0$

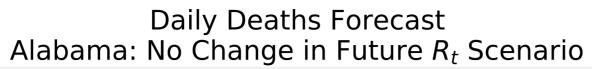
Rate_{Hospitalization}: 4.00%

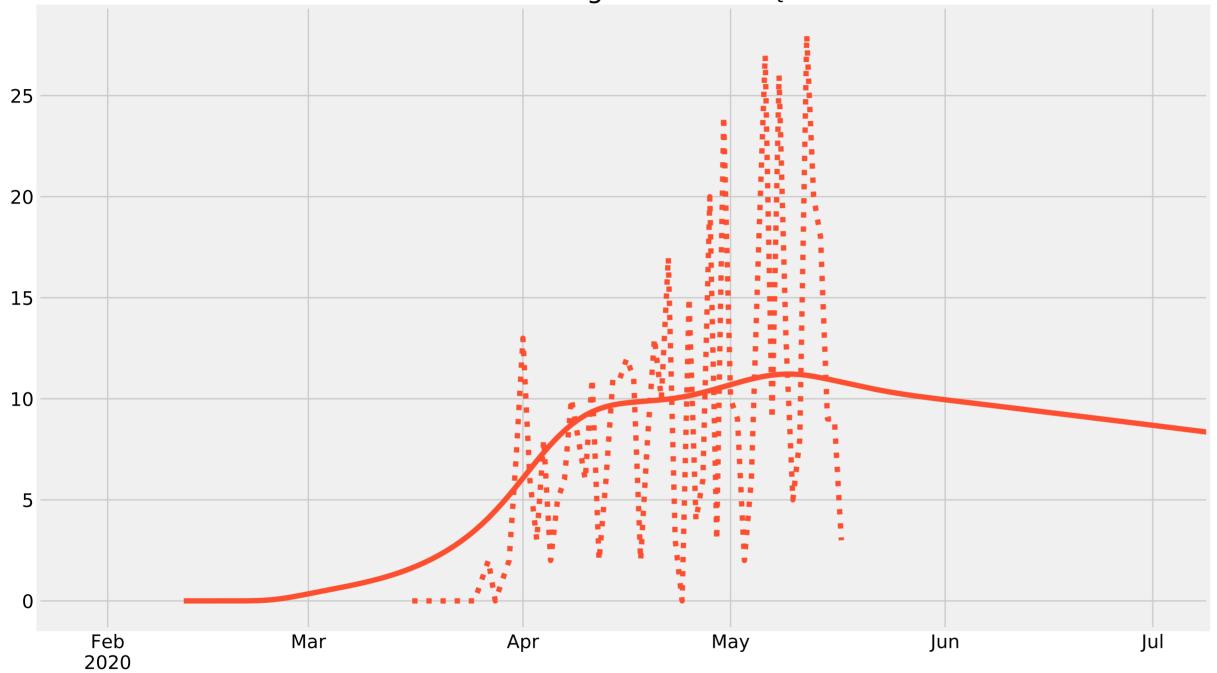
Rate_{ICU}: 31.71%

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

 $BasicR_0: 1.7$

Author: Michael Donnelly (twtr: @donnellymjd)





Forecast Daily Deaths • • • Reported Daily Deaths

Parameters Used

 $D_{incubation}: 3.0$

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

D_{inhospital}: 11.0

 $D_{tildeath}: 17.0$

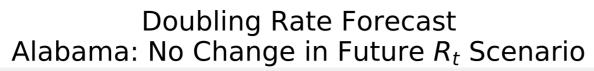
Rate_{Hospitalization}: 4.00%

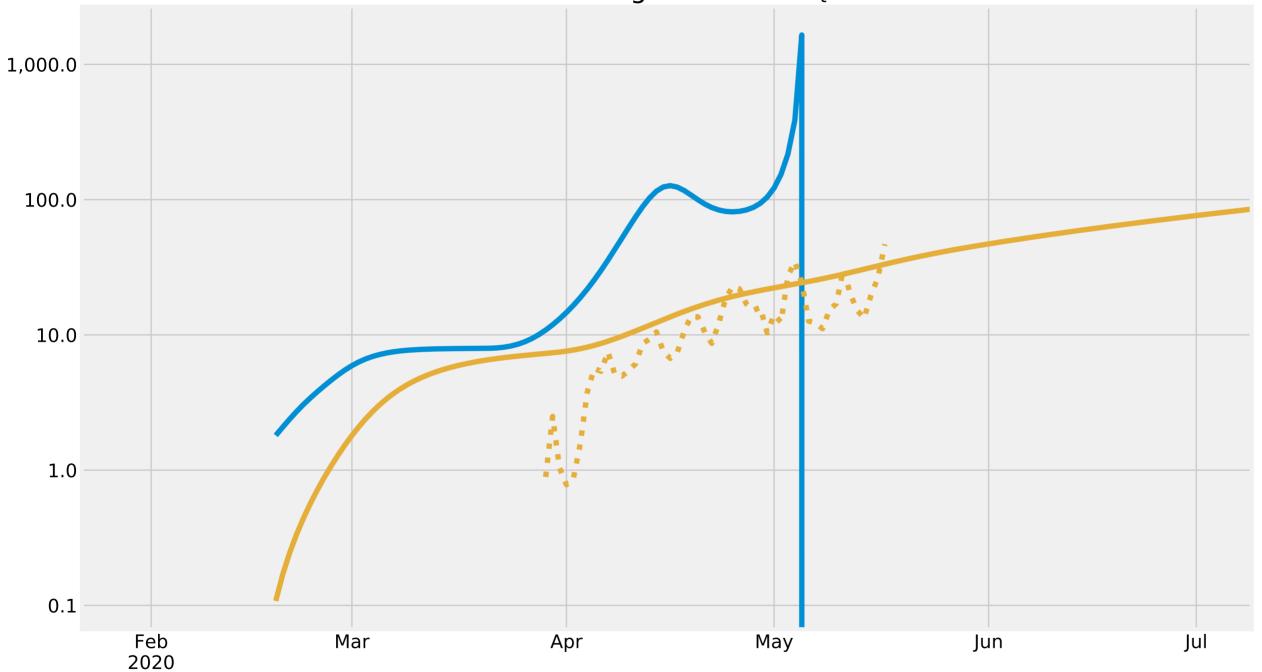
Rate_{ICU}: 31.71%

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

 $BasicR_0: 1.7$

Author: Michael Donnelly (twtr: @donnellymjd) Chart created on 18 May 2020





hospitalizeddeathsReported Total 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%

 $BasicR_0: 1.7$

Author: Michael Donnelly (twtr: @donnellymjd)