Florida: COVID-19 Cases Per 100k Residents

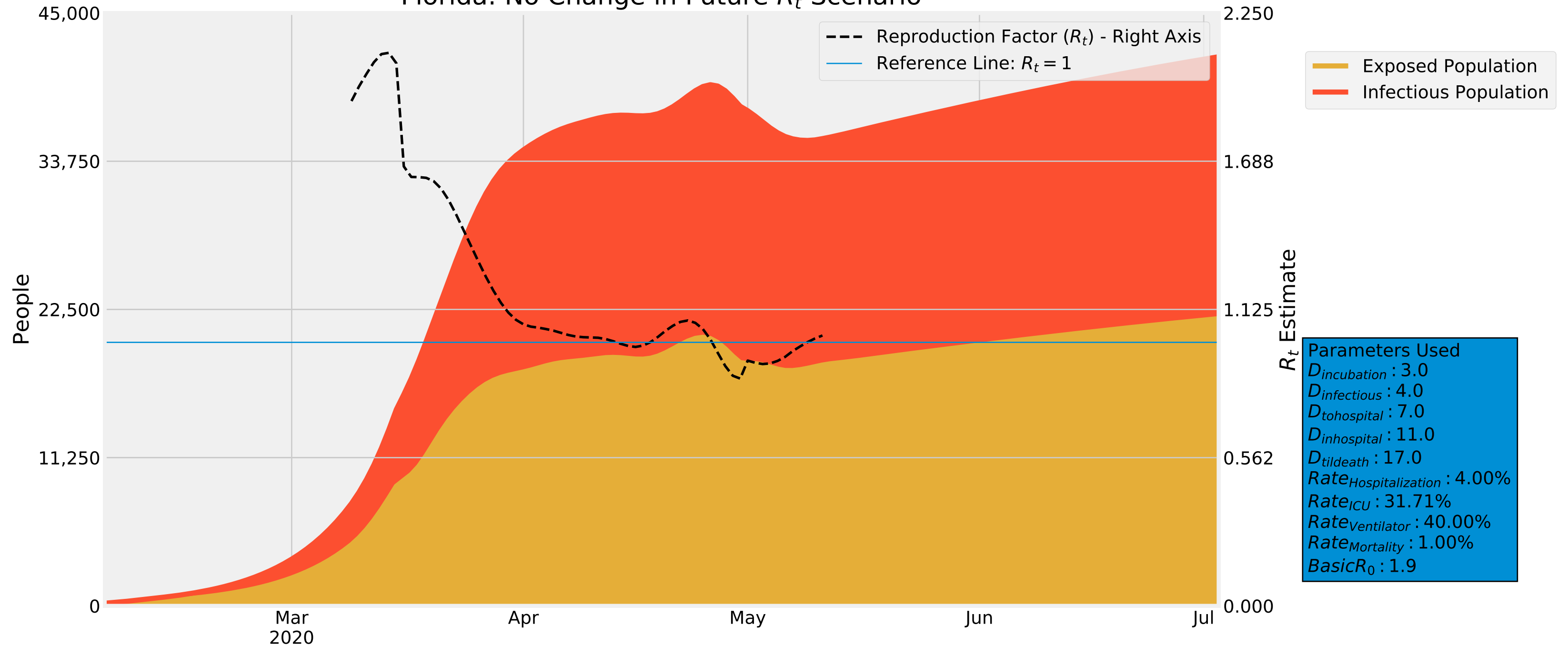cases_per100k

- > 1,000
- 500 - 600
- 400 - 500
- 300 - 400
- 200 - 300
- 100 - 200
- 0 - 100
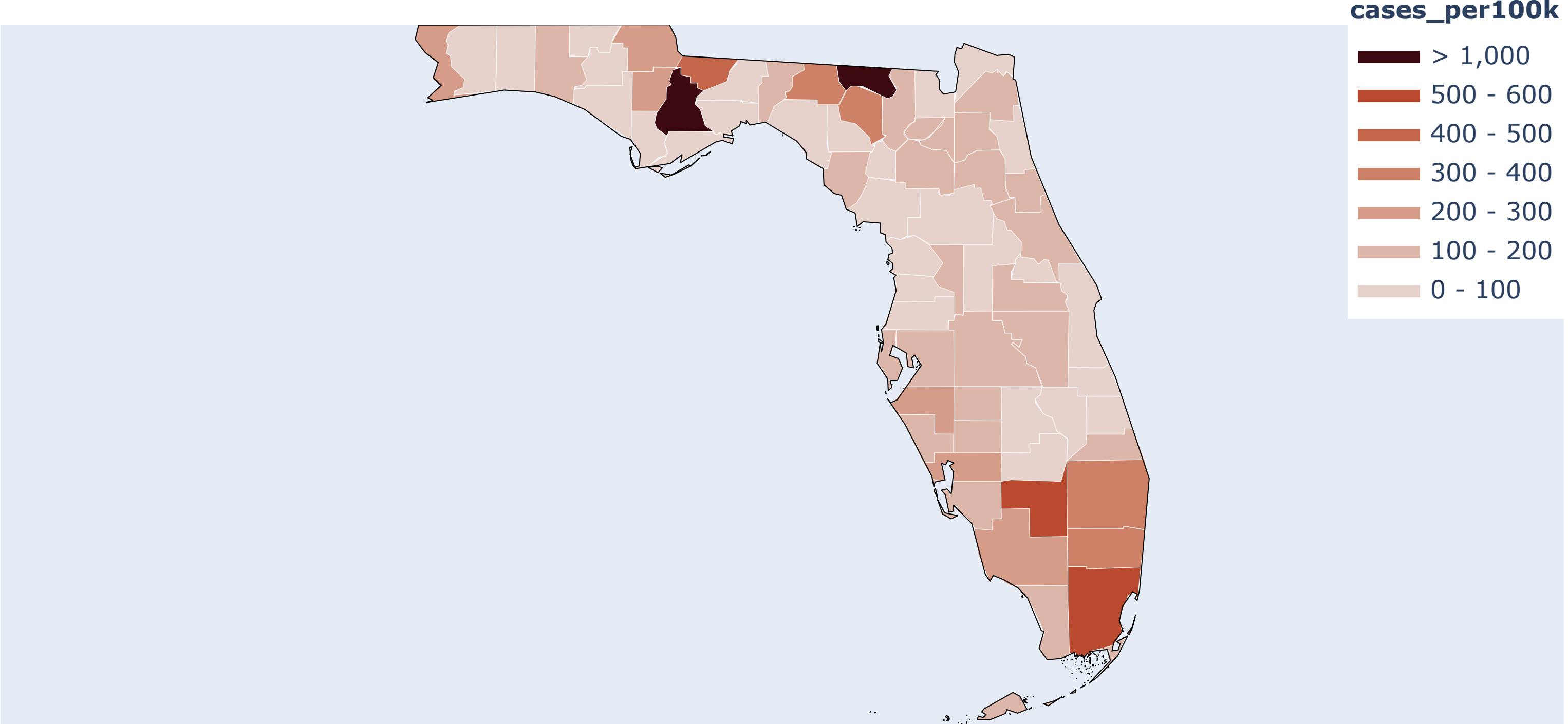
Reproduction Rate (R_t) Estimates
Florida: No Change in Future R_t Scenario

Legend:
- rt_deaths_daily
- rt_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%
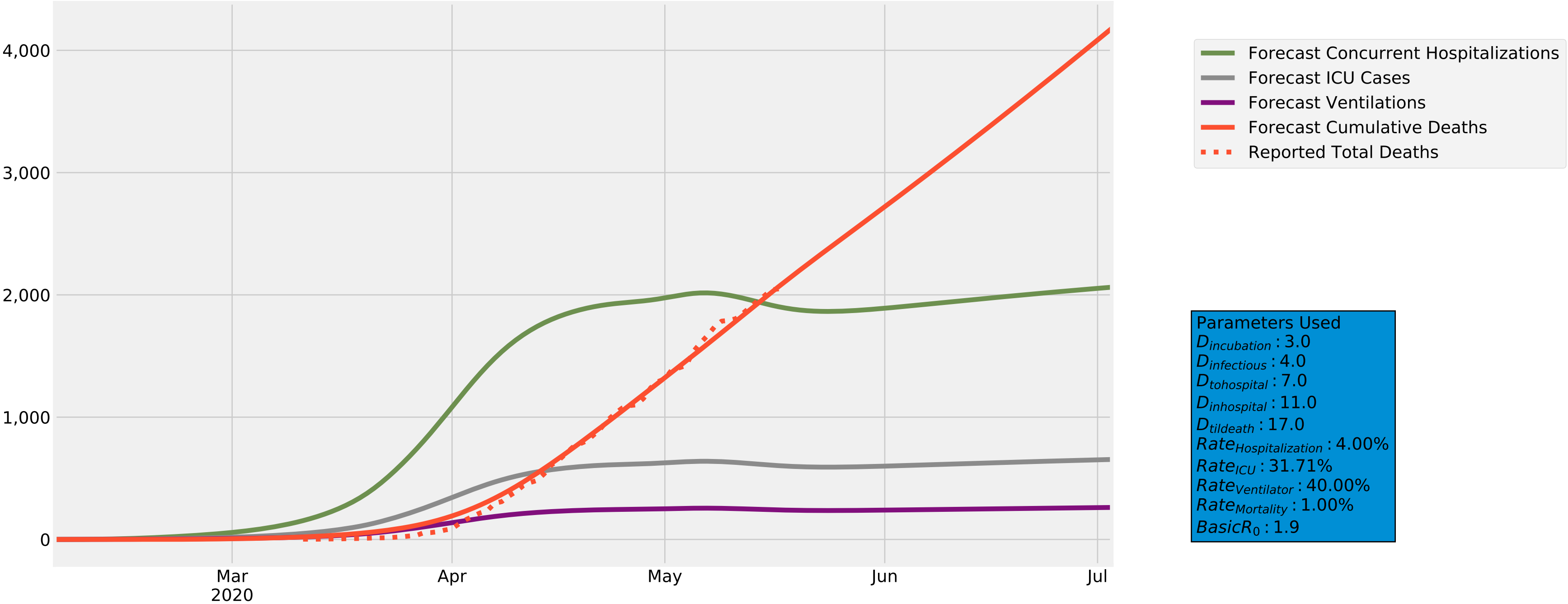$Rate_{Mortality}$: 1.00%
$BasicR_0$: 1.9
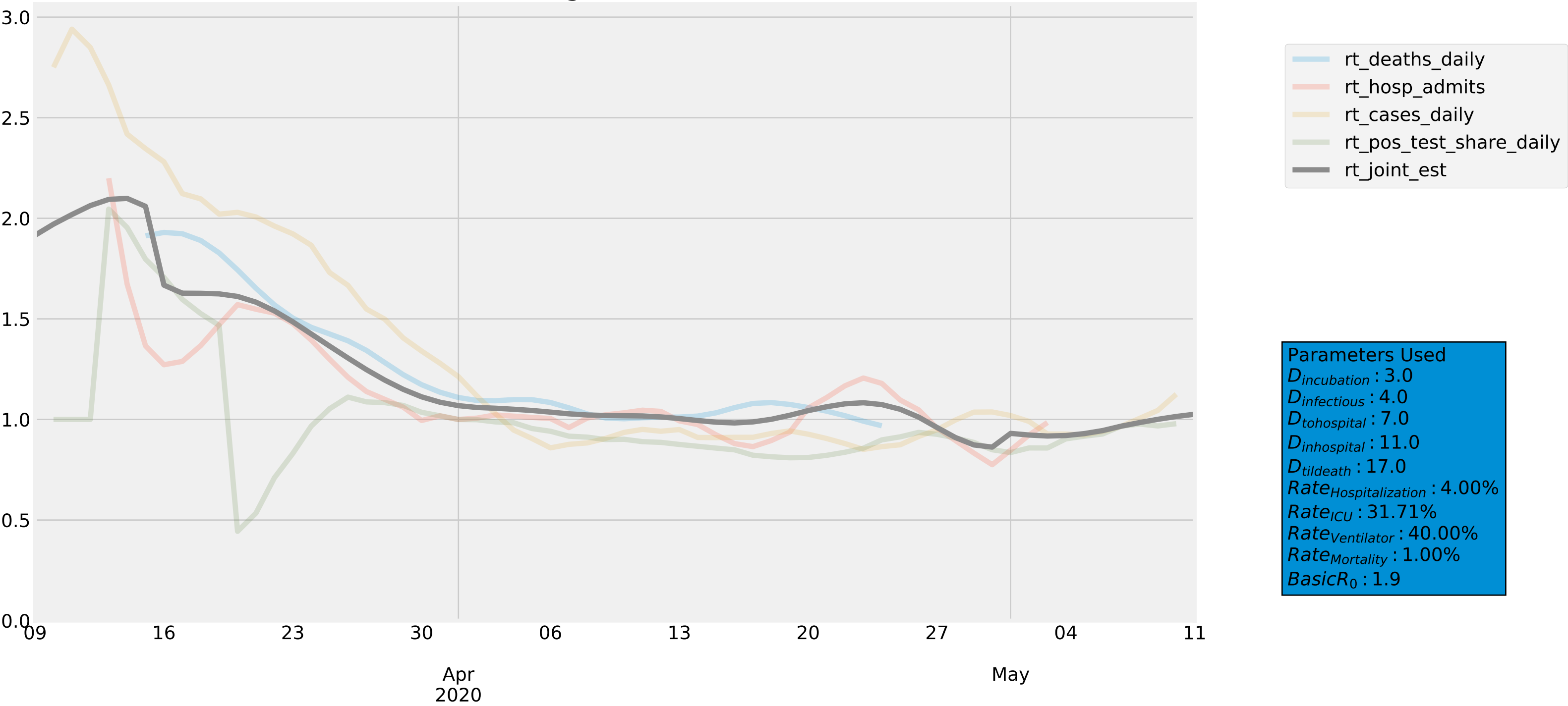
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Simultaneous Infections Forecast
Florida: No Change in Future R_t Scenario

Legend:
- - - Reproduction Factor (R_t) - Right Axis
— Reference Line: $R_t = 1$
- Exposed Population
- Infectious Population

Y-axis (left): People — 0, 11,250, 22,500, 33,750, 45,000

Y-axis (right): R_t Estimate — 0.000, 0.562, 1.125, 1.688, 2.250

X-axis: Mar 2020, Apr, May, Jun, Jul

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%
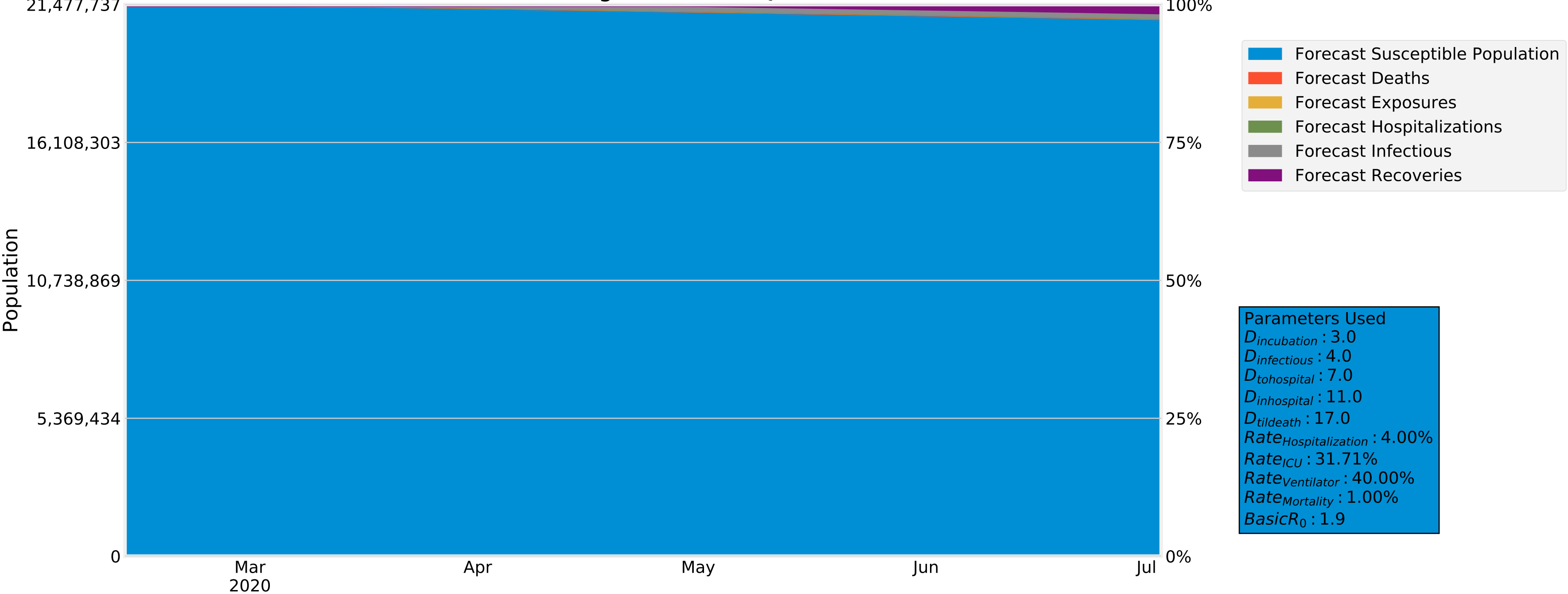$Rate_{Mortality}$: 1.00%
$Basic R_0$: 1.9

Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

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

Legend:
- 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%
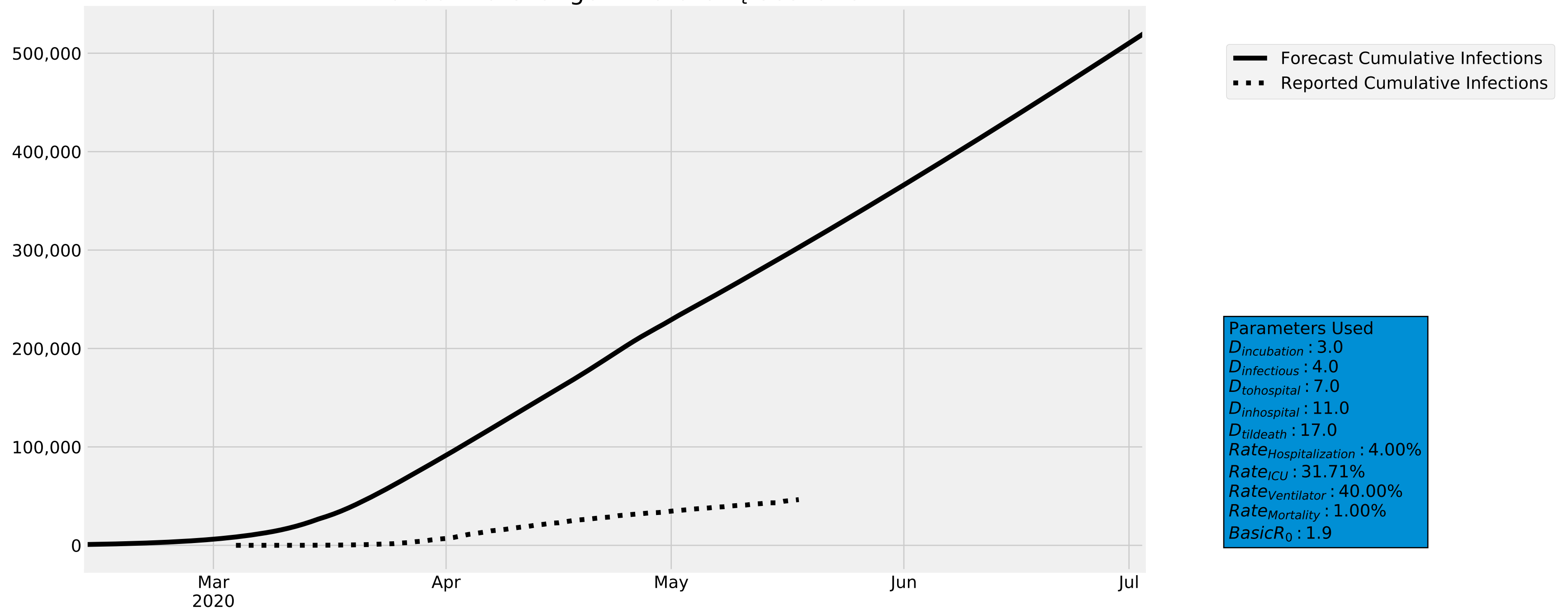$Rate_{Mortality}$: 1.00%
$BasicR_0$: 1.9

Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast
Florida: No Change in Future R_t Scenario

Legend:
- Forecast Susceptible Population
- Forecast Deaths
- Forecast Exposures
- Forecast Hospitalizations
- Forecast Infectious
- Forecast Recoveries

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%
- $BasicR_0$: 1.9

Cumulative Infections Forecast
Florida: No Change in Future R_t Scenario

Legend:
- —— Forecast Cumulative Infections
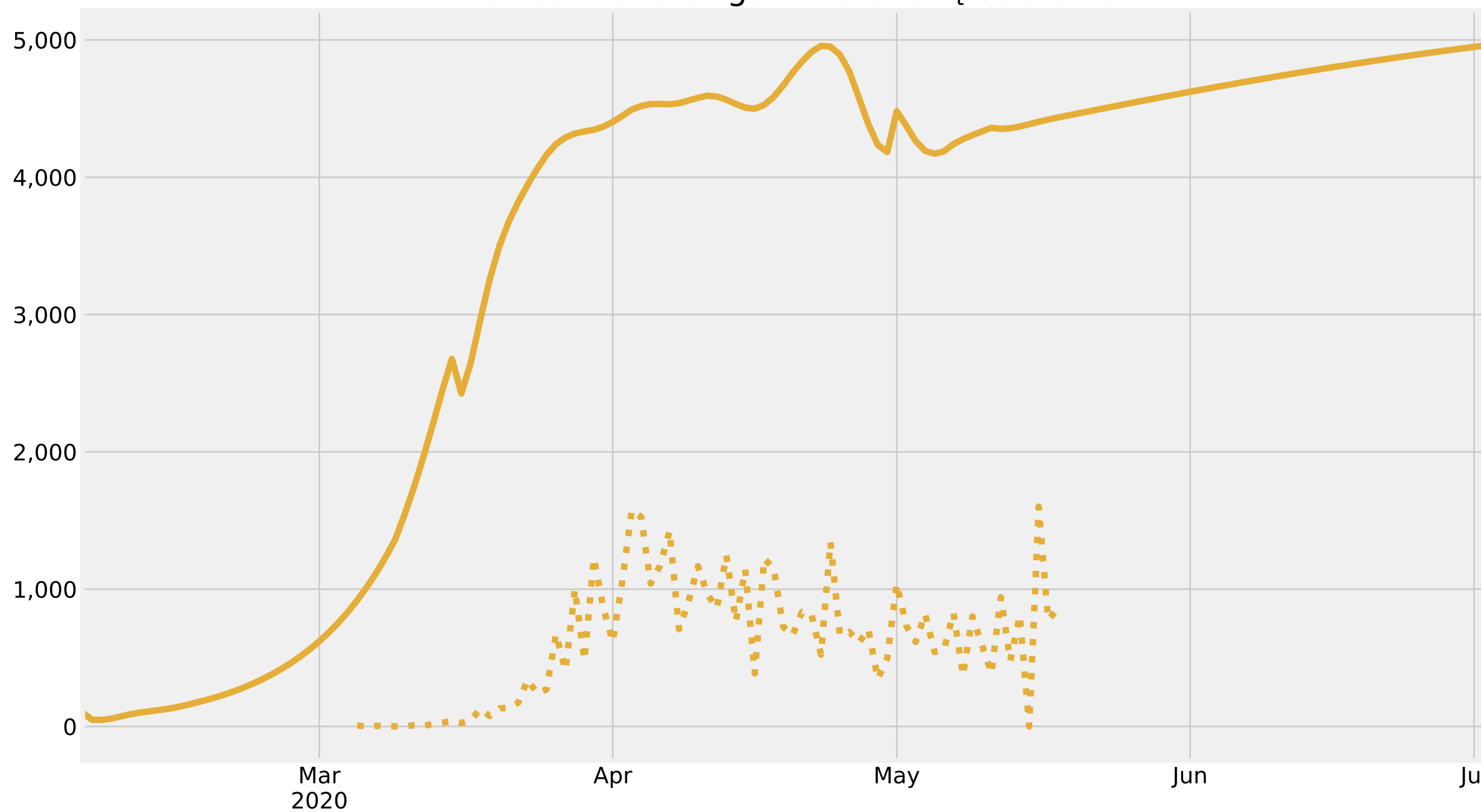- ···· Reported Cumulative Infections

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%
$BasicR_0$: 1.9

Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Daily Exposures Forecast
Florida: No Change in Future R_t Scenario

Legend:
- Forecast Daily New Infections (Exposed)
- Reported Daily New Infections (Exposed)

Parameters Used
$D_{incubation} : 3.0$
$D_{infectious} : 4.0$
$D_{tohospital} : 7.0$
$D_{inhospital} : 11.0$
$D_{tildeath} : 17.0$
$Rate_{Hospitalization} : 4.00\%$
$Rate_{ICU} : 31.71\%$
$Rate_{Ventilator} : 40.00\%$
$Rate_{Mortality} : 1.00\%$
$Basic R_0 : 1.9$

Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

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

Legend:
- Forecast Hospital Admissions
- Reported 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%
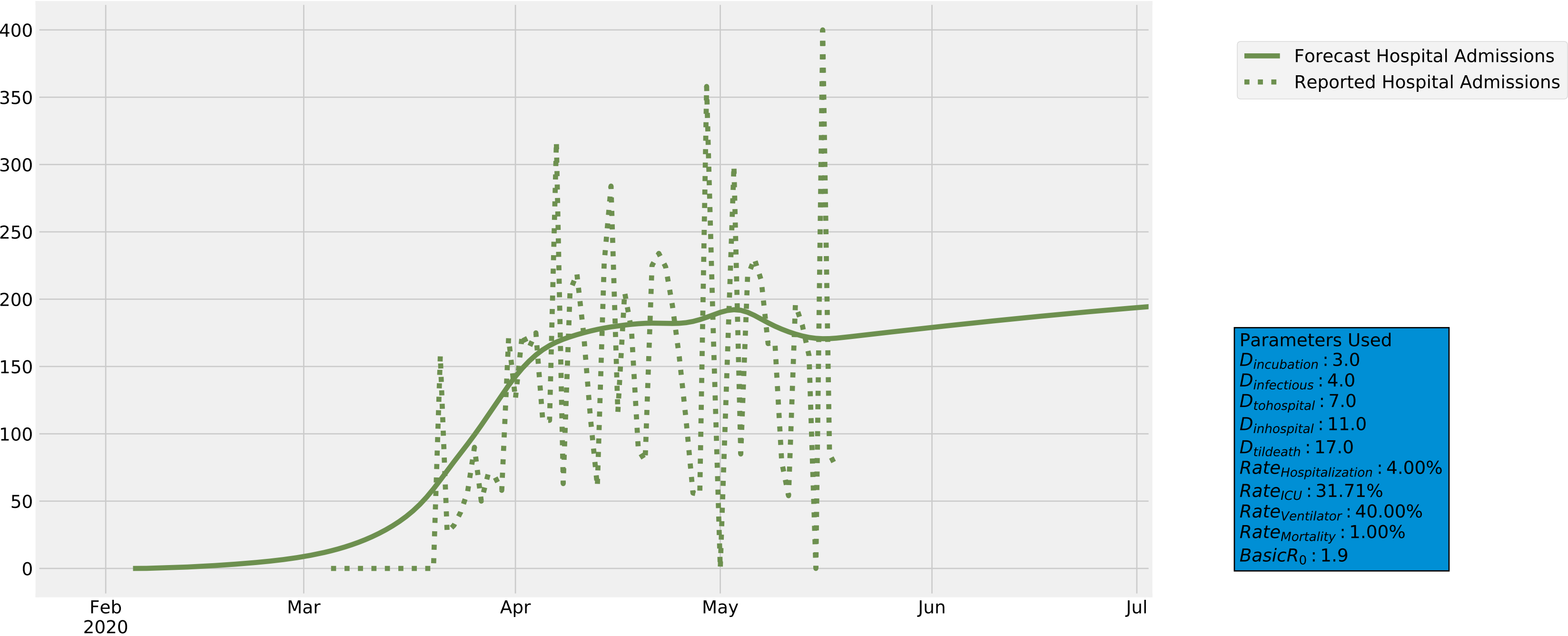$Rate_{Ventilator}$: 40.00%
$Rate_{Mortality}$: 1.00%
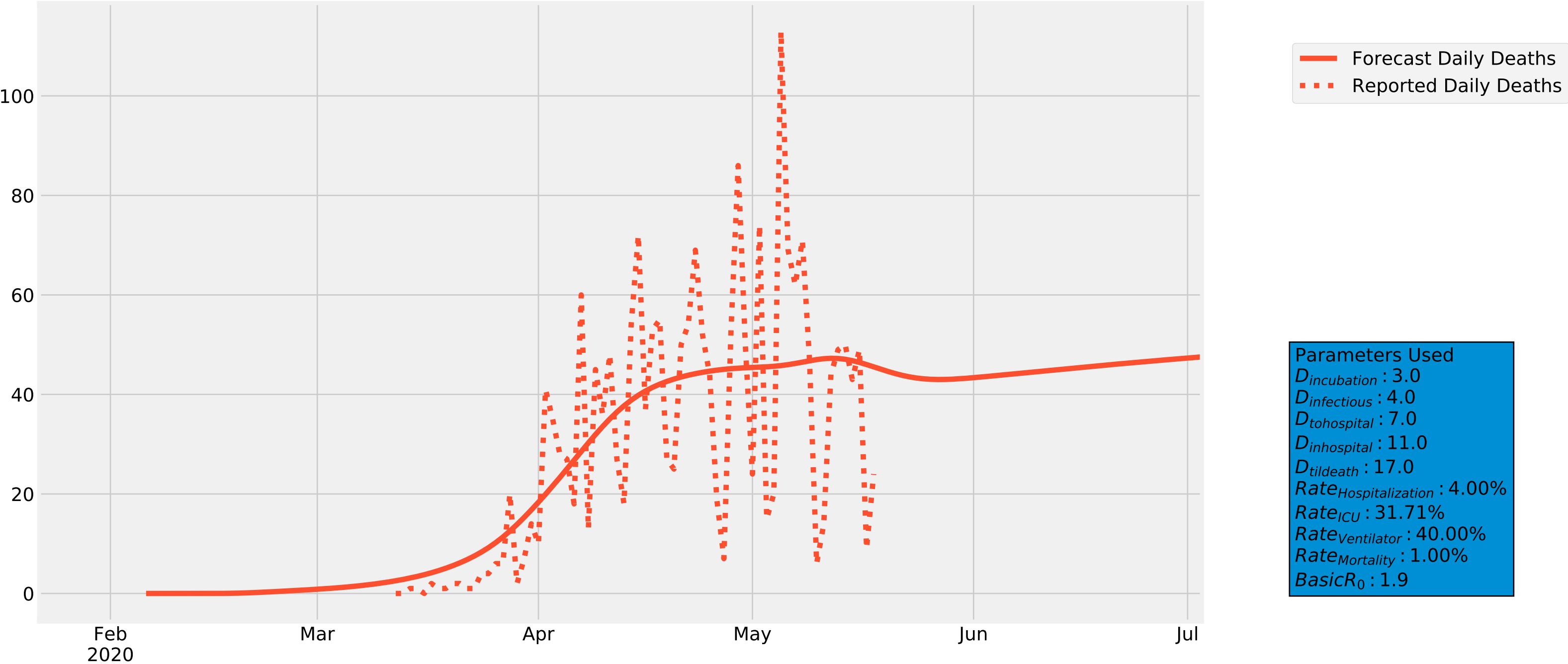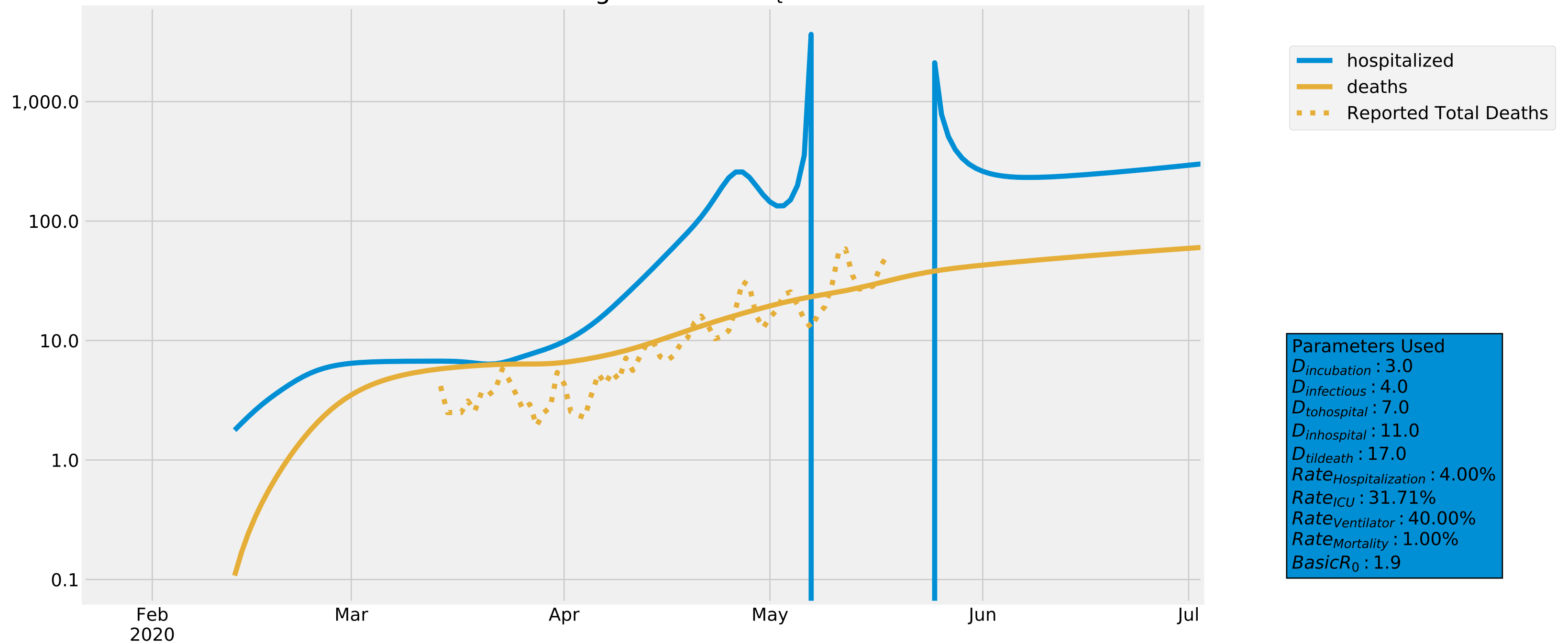$BasicR_0$: 1.9

Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Daily Deaths Forecast
Florida: No Change in Future R_t Scenario

Legend:
- 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%
$BasicR_0$: 1.9

Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast
Florida: No Change in Future R_t Scenario

Legend:
- hospitalized
- deaths
- Reported Total Deaths

Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020