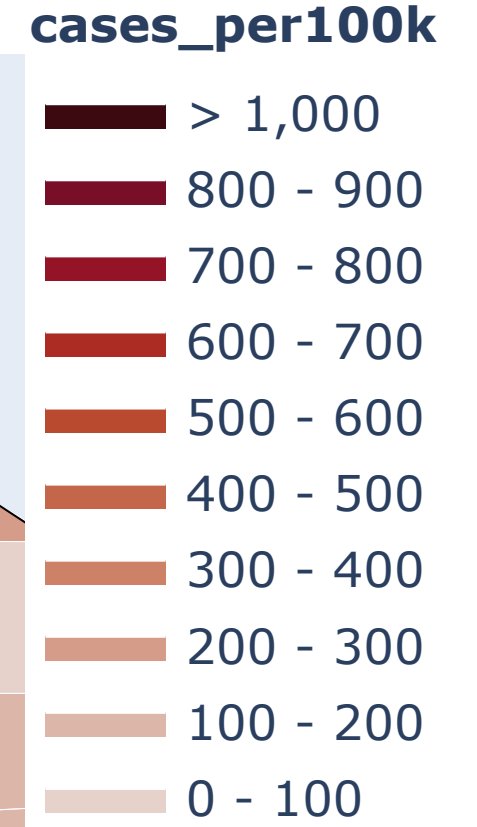
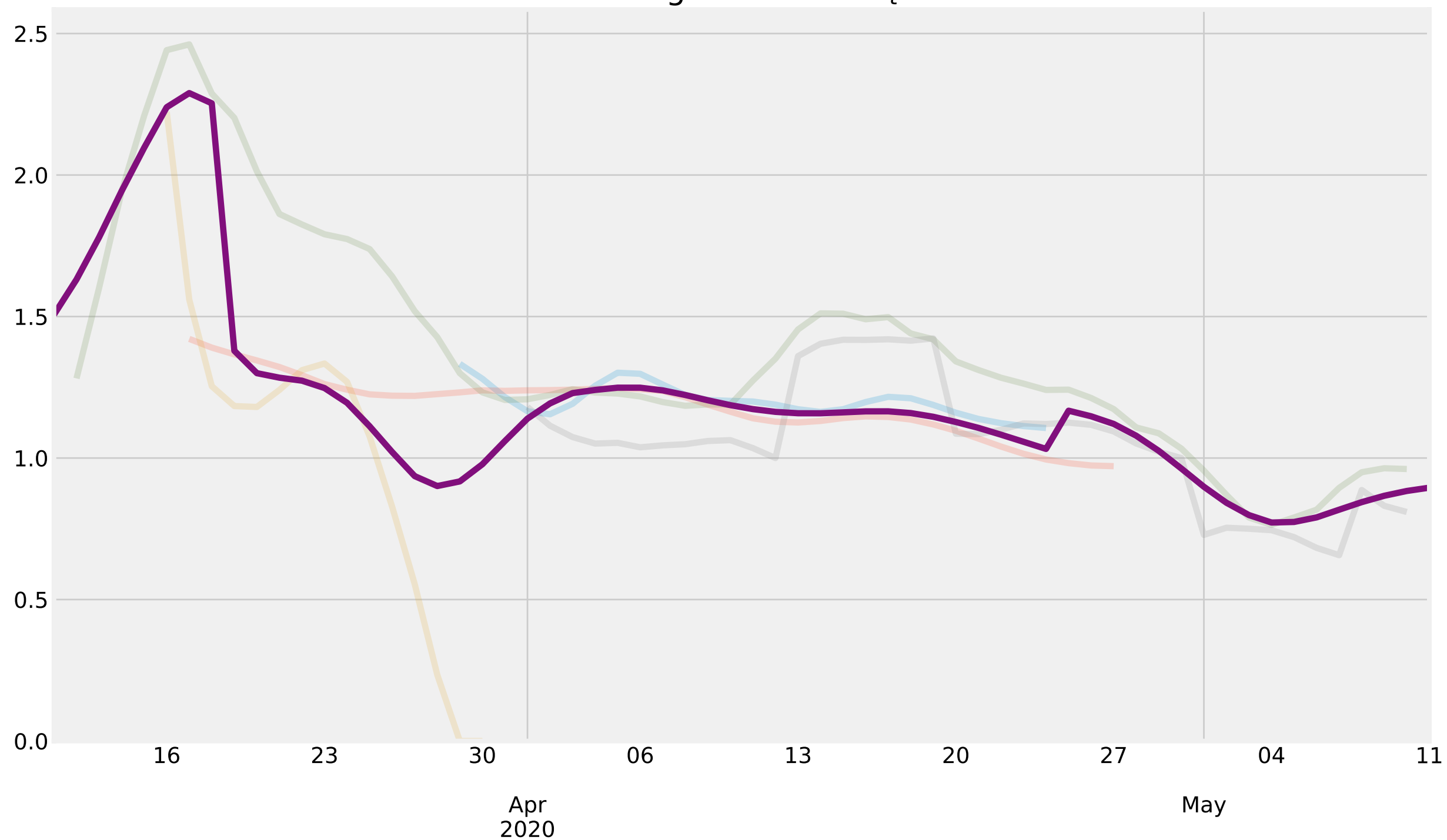


Legend:

- > 1,000
- 800 - 900
- 700 - 800
- 600 - 700
- 500 - 600
- 400 - 500
- 300 - 400
- 200 - 300
- 100 - 200
- 0 - 100



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



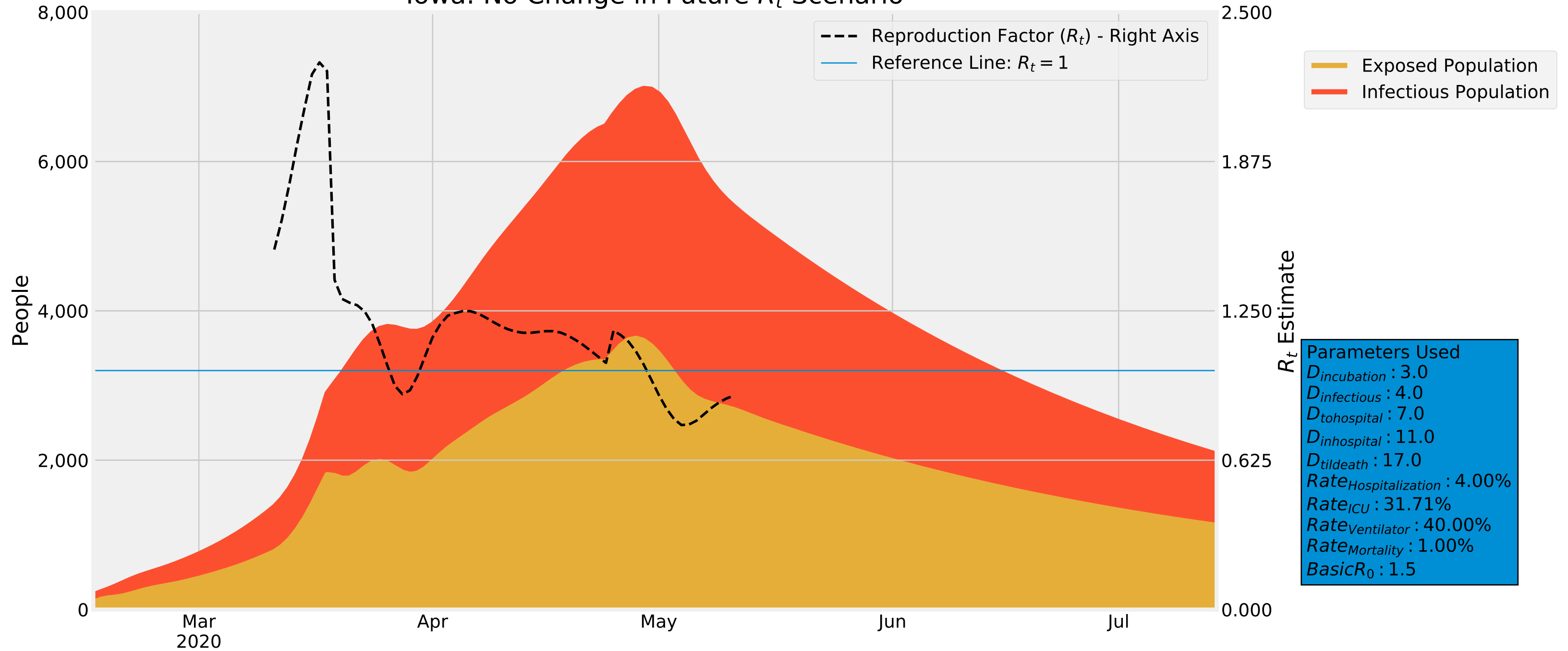
- rt_deaths_daily
- rt_hosp_concur
- rt_hosp_admits
- rt_cases_daily
- rt_pos_test_share_daily
- rt_joint_est

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%
 $BasicR_0$: 1.5

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

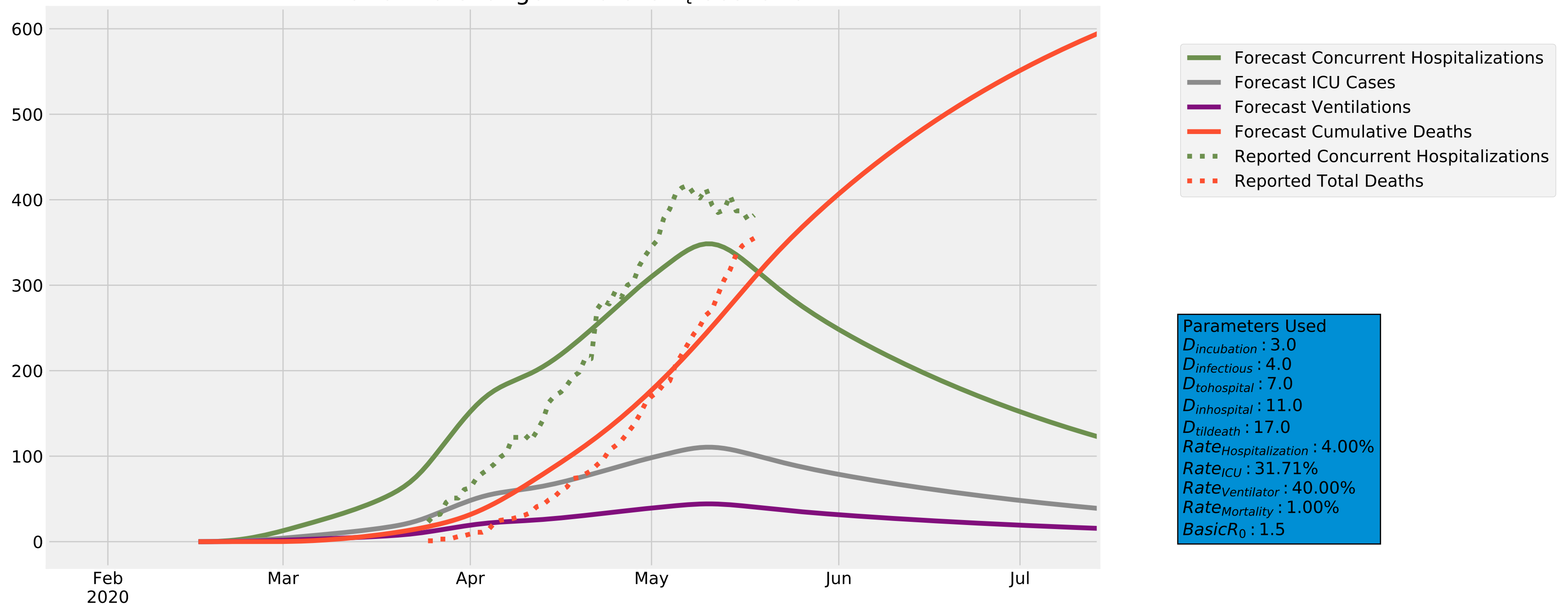
Simultaneous Infections Forecast

Iowa: No Change in Future R_t Scenario



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

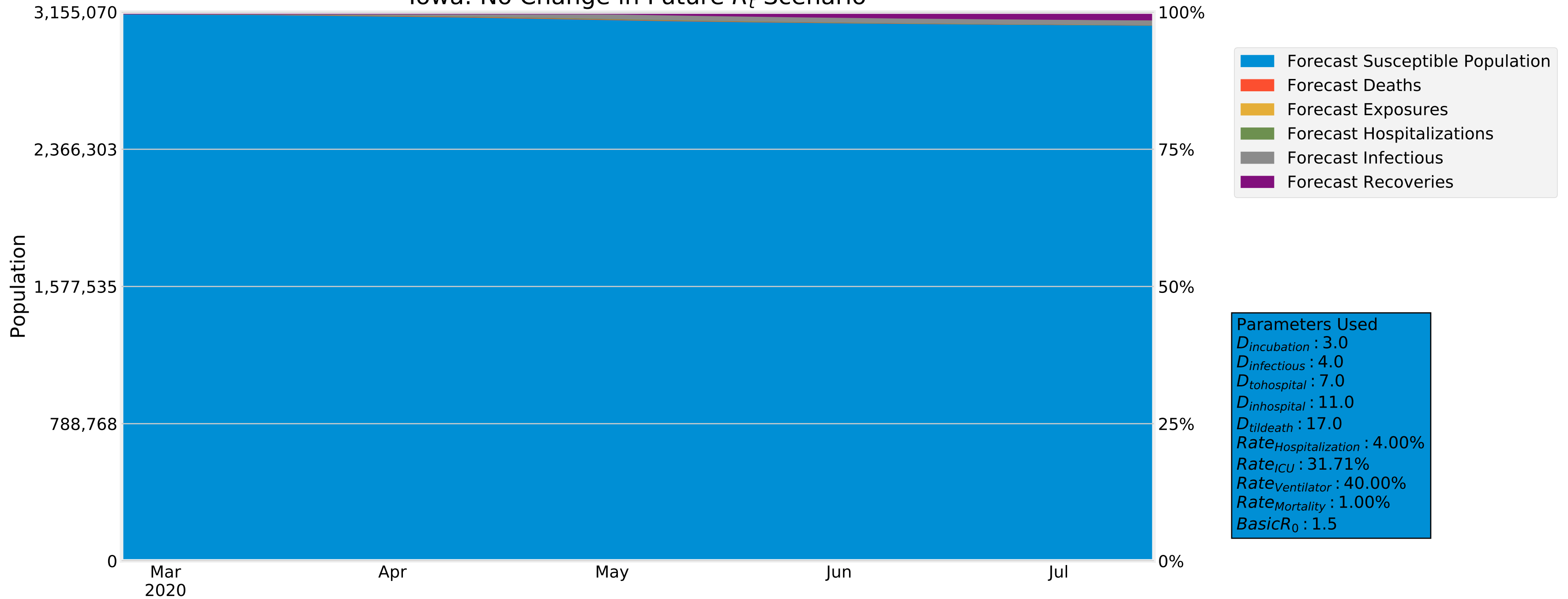
Hospitalization and Deaths Forecast Iowa: No Change in Future R_t Scenario



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

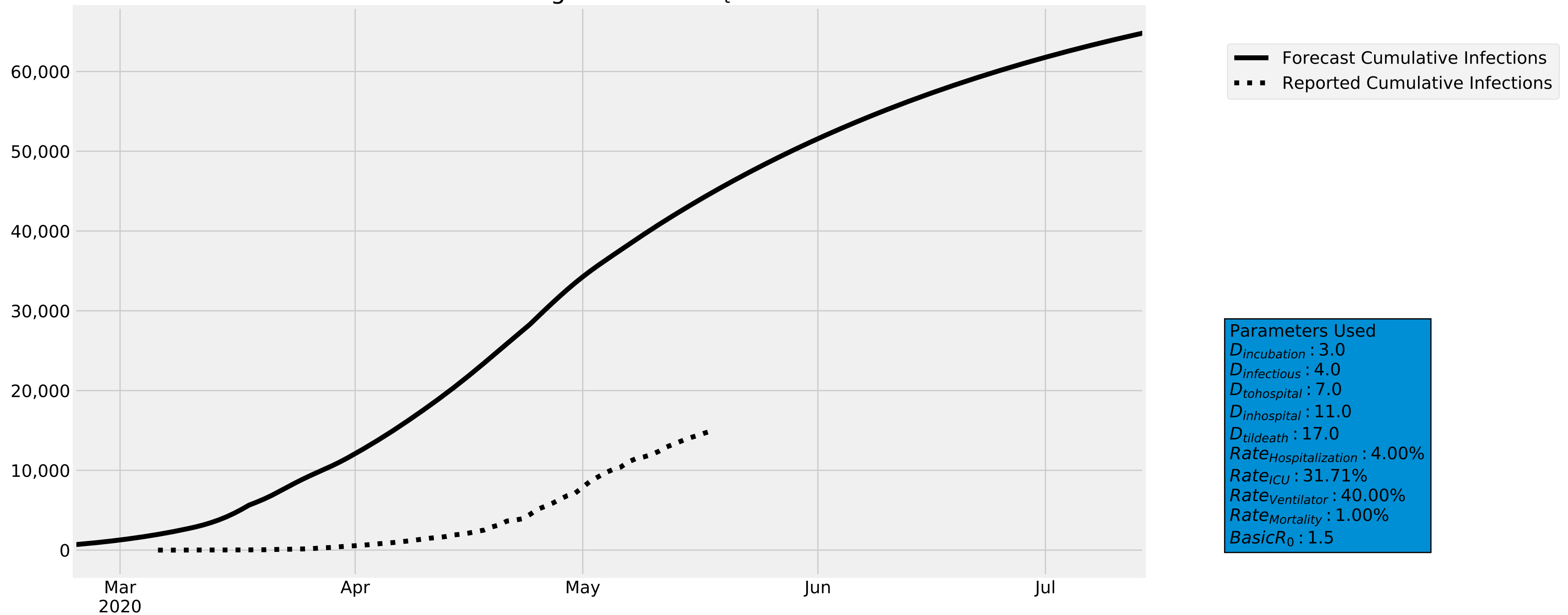
Population Overview Forecast

Iowa: No Change in Future R_t Scenario



Cumulative Infections Forecast

Iowa: No Change in Future R_t Scenario



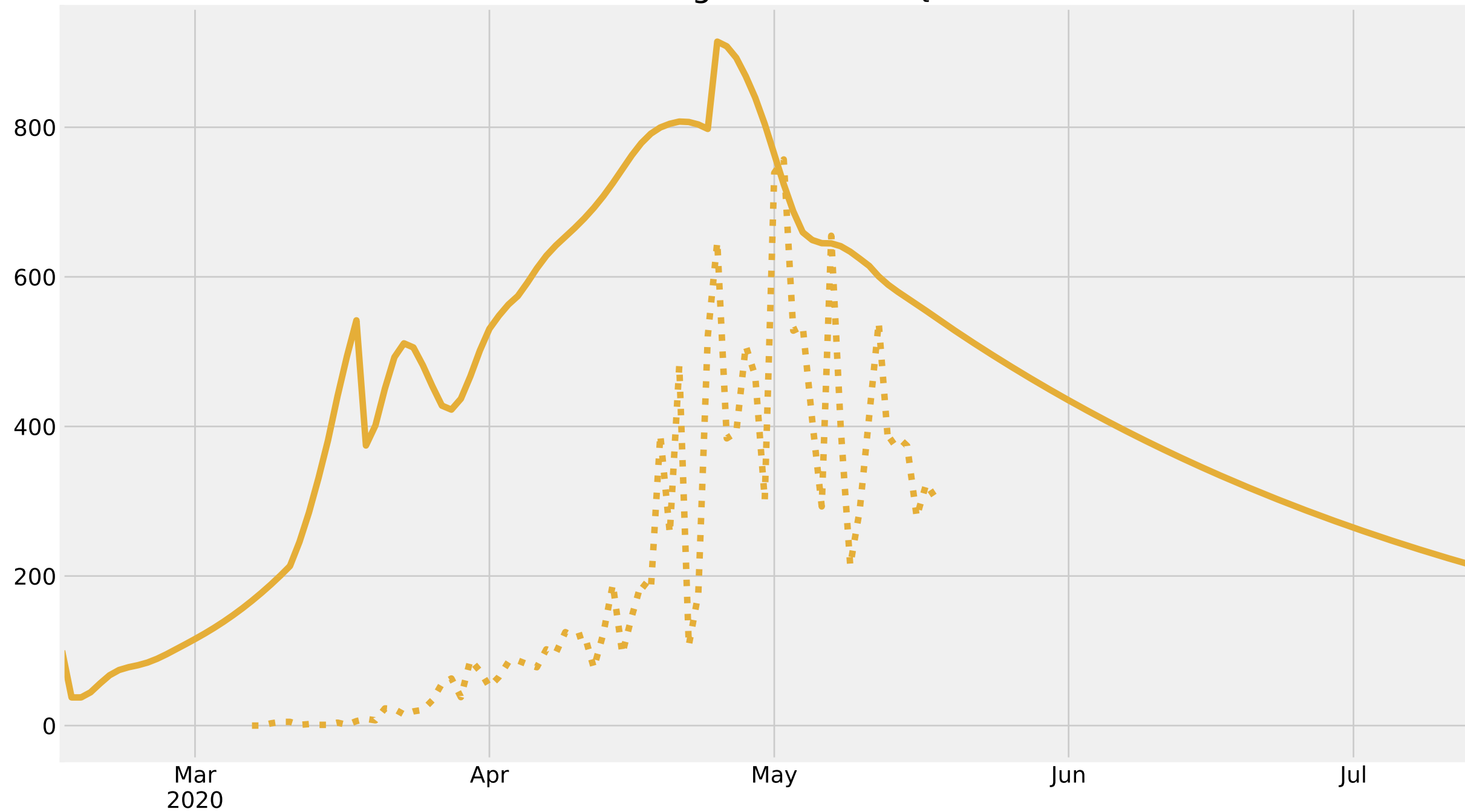
— Forecast Cumulative Infections
... Reported Cumulative Infections

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%
 $BasicR_0$: 1.5

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

Daily Exposures Forecast

Iowa: No Change in Future R_t Scenario

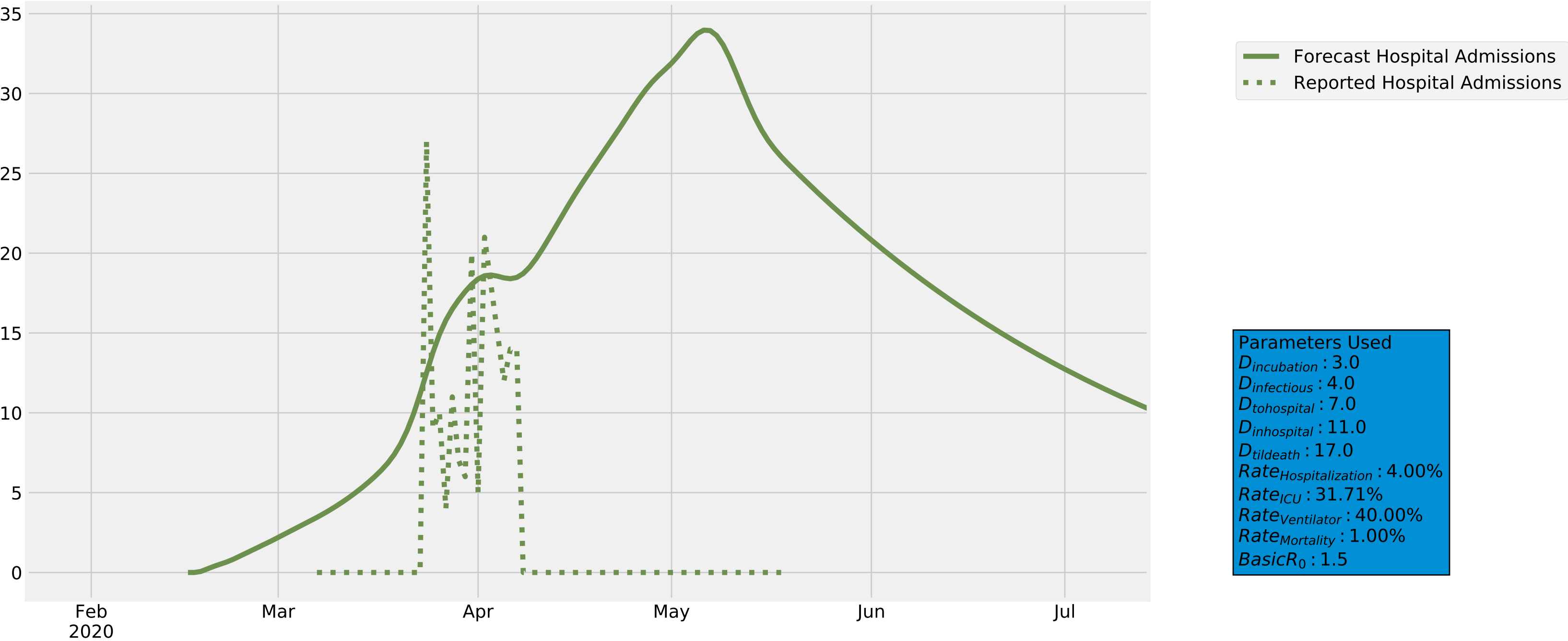


Forecast Daily New Infections (Exposed)
Reported Daily New Infections (Exposed)

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%
 $BasicR_0$: 1.5

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

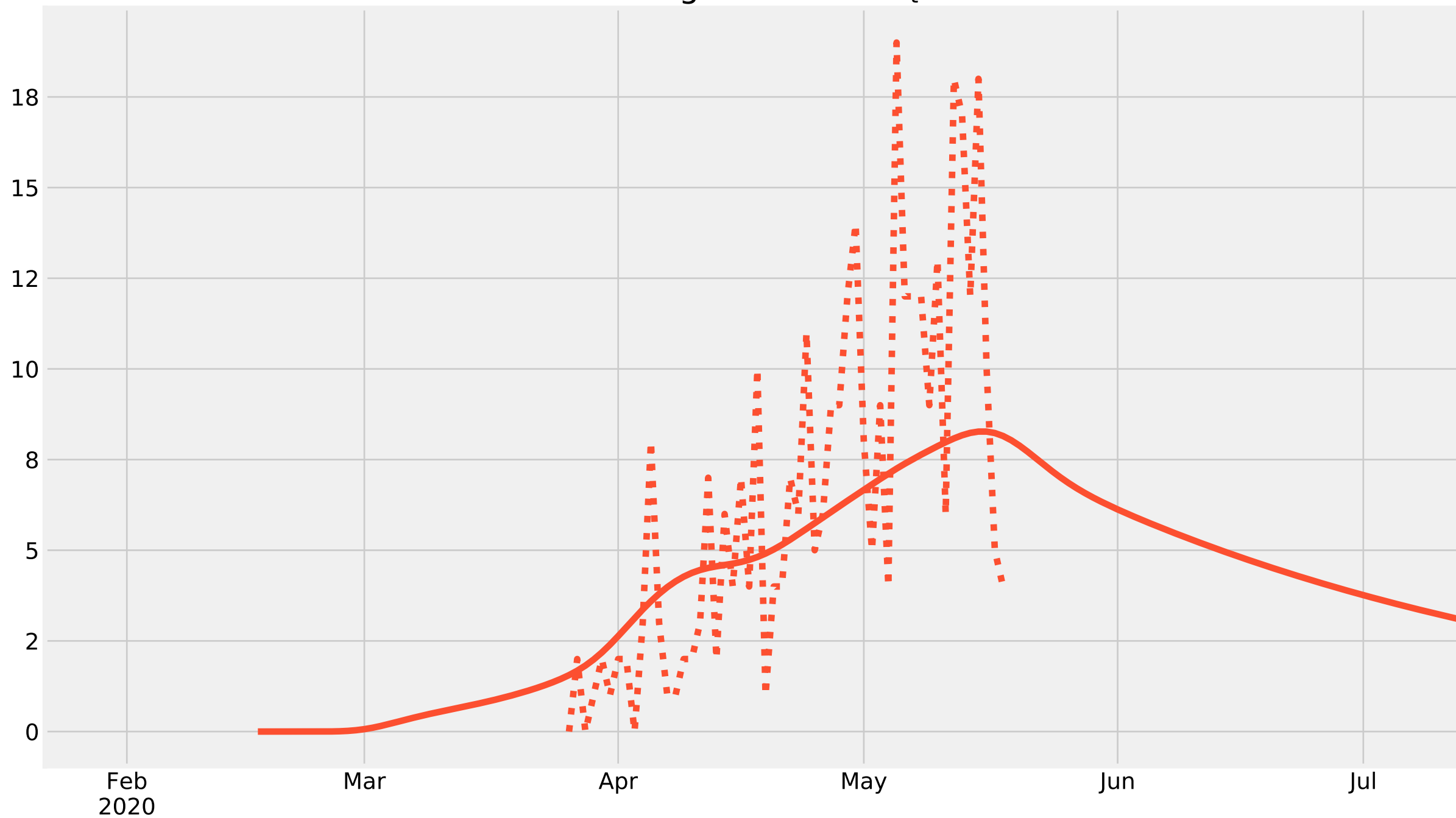
Daily Hospital Admissions Forecast
Iowa: No Change in Future R_t Scenario



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

Daily Deaths Forecast

Iowa: No Change in Future R_t Scenario



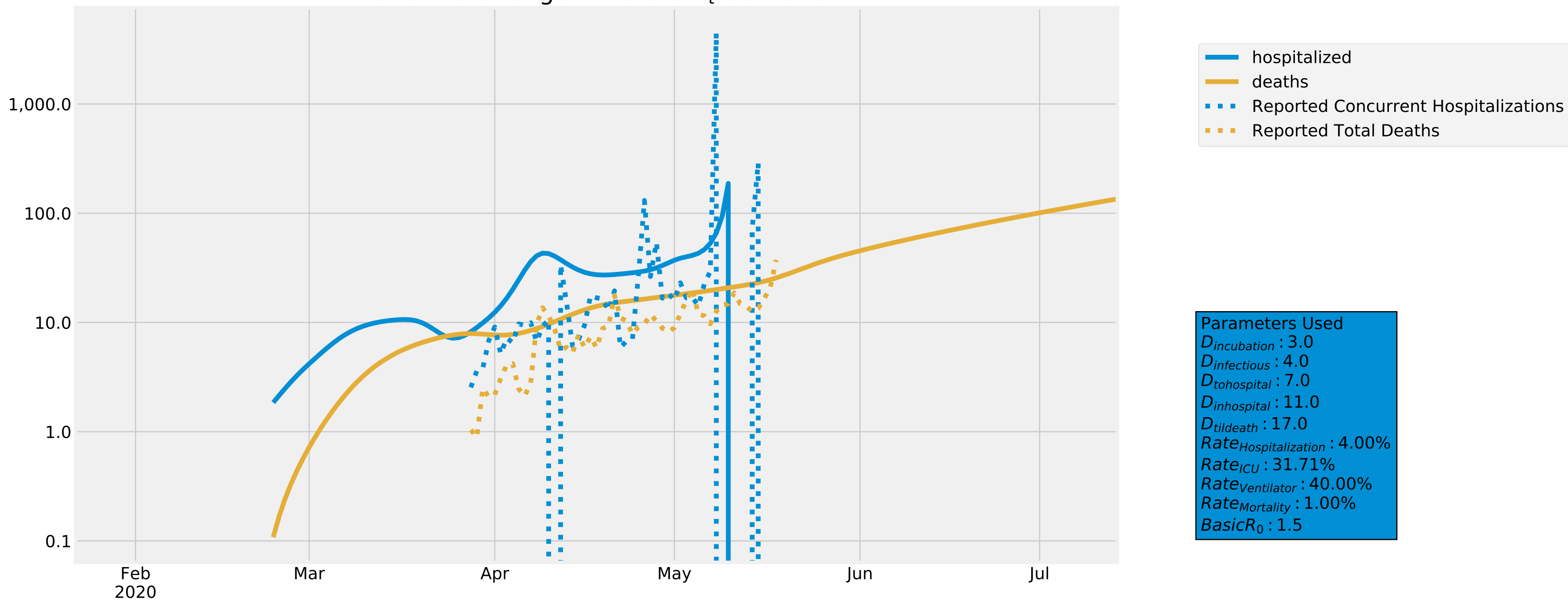
Forecast Daily Deaths
Reported Daily Deaths

Parameters Used
 $D_{incubation} : 3.0$
 $D_{infectious} : 4.0$
 $D_{tohospital} : 7.0$
 $D_{inhospital} : 11.0$
 $D_{tildeath} : 17.0$
 $Rate_{Hospitalization} : 4.00\%$
 $Rate_{ICU} : 31.71\%$
 $Rate_{Ventilator} : 40.00\%$
 $Rate_{Mortality} : 1.00\%$
 $BasicR_0 : 1.5$

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

Doubling Rate Forecast

Iowa: No Change in Future R_t Scenario



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