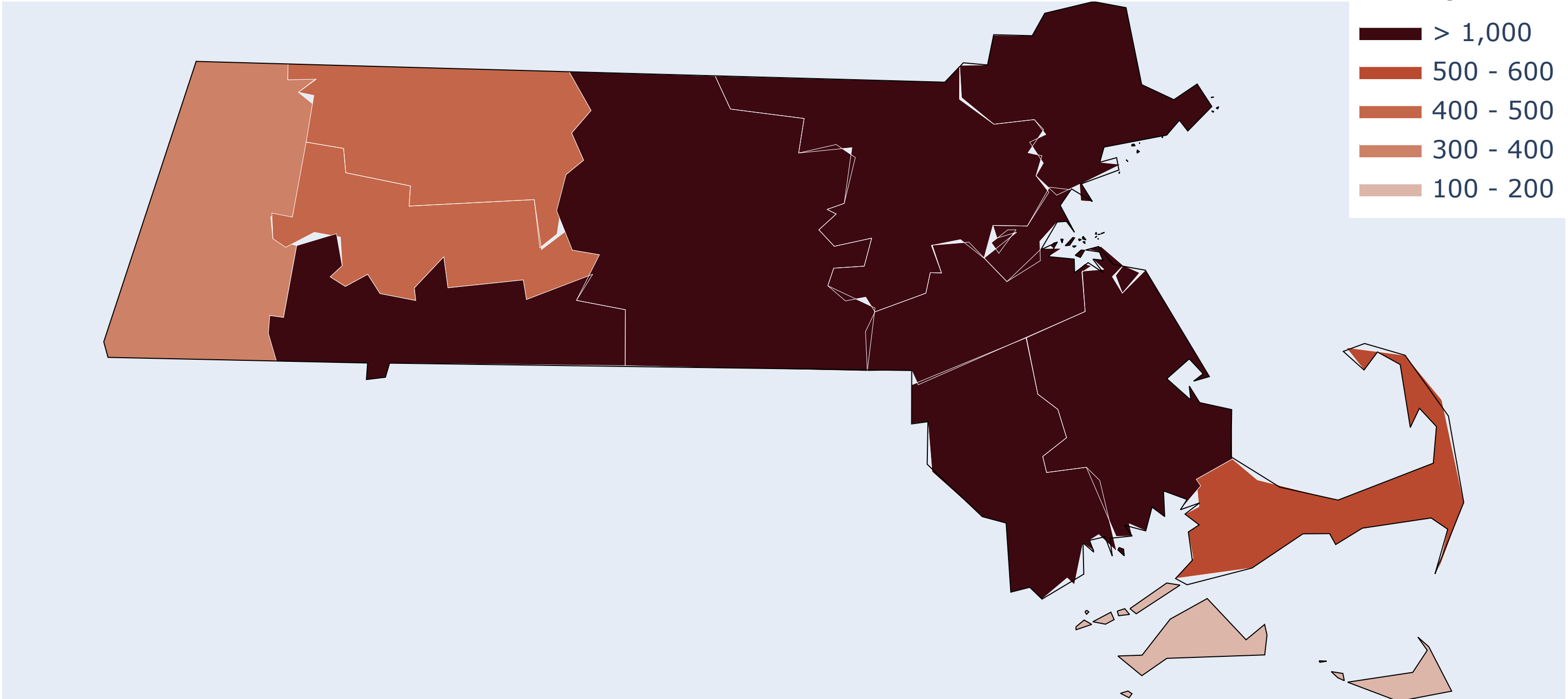
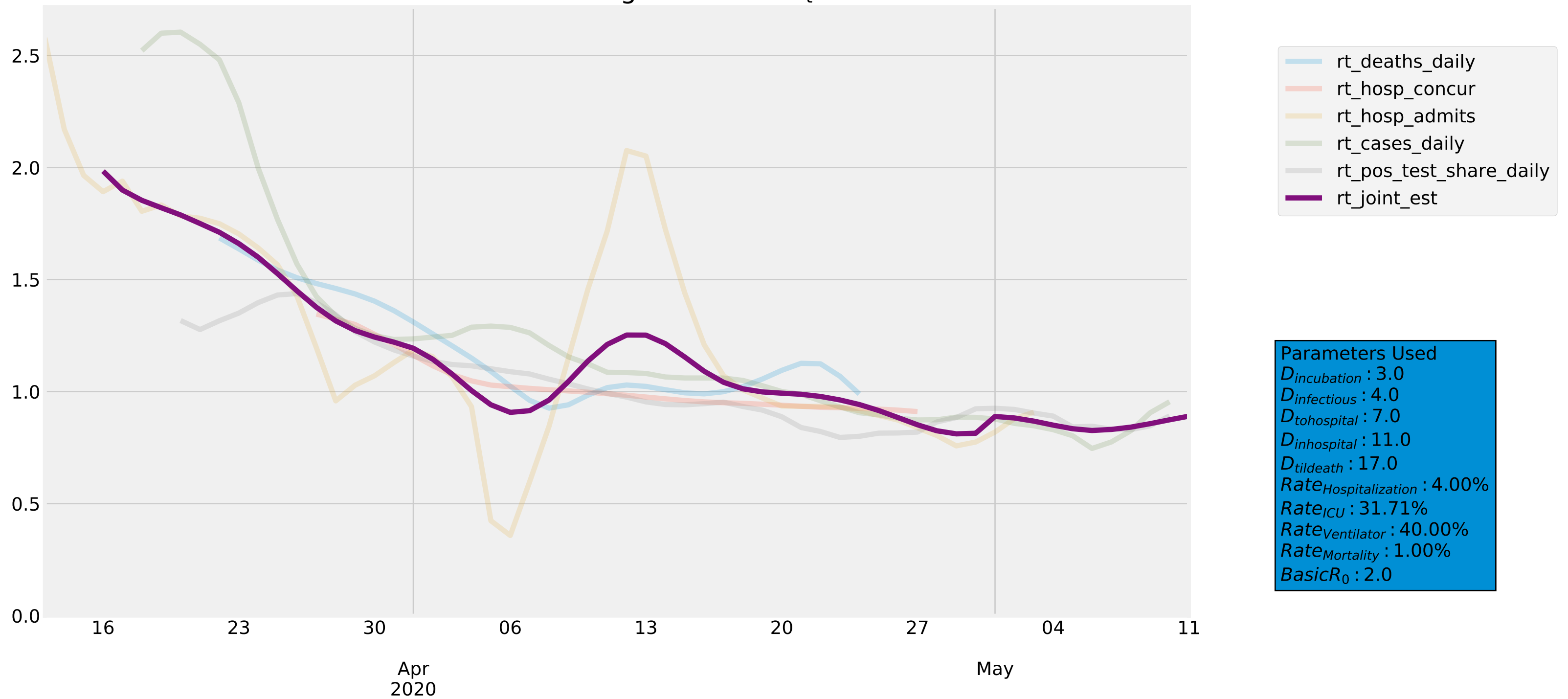


Massachusetts: COVID-19 Cases Per 100k Residents



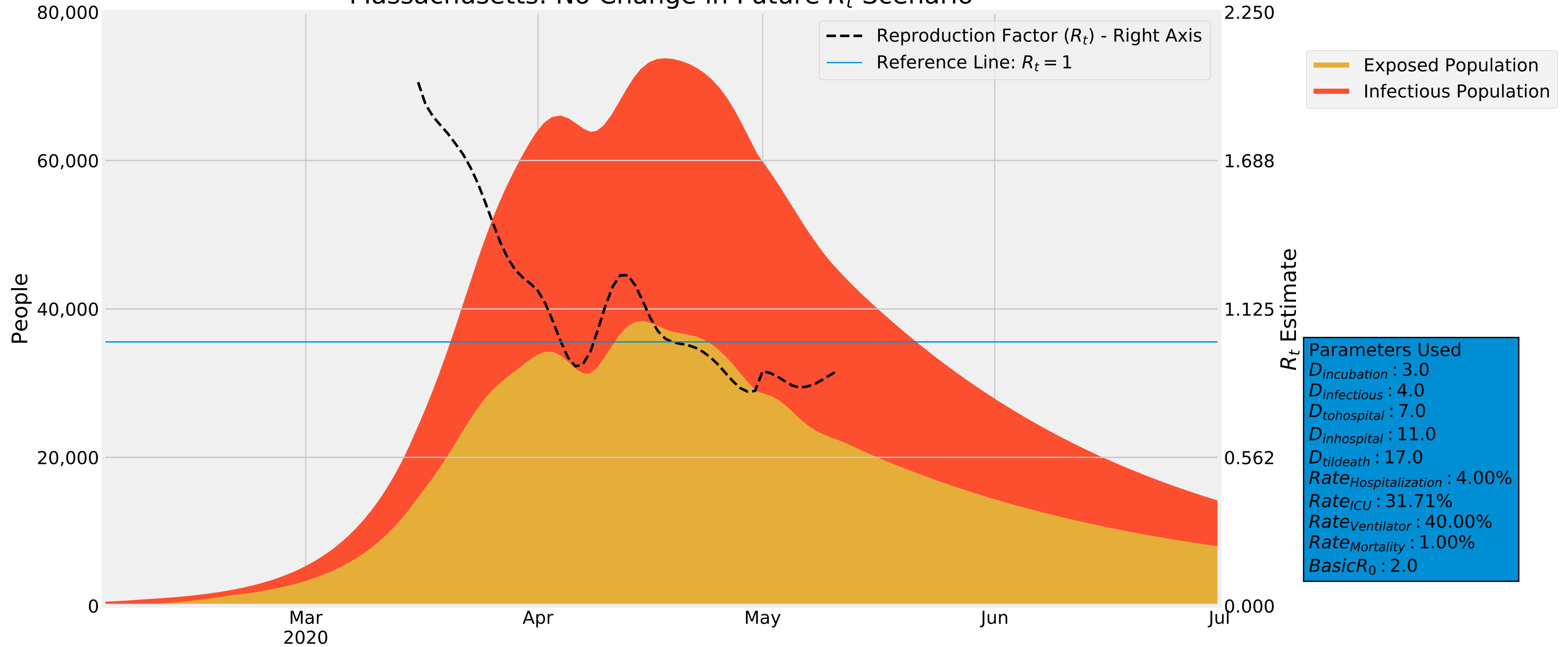
Reproduction Rate (R_t) Estimates Massachusetts: No Change in Future R_t Scenario



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

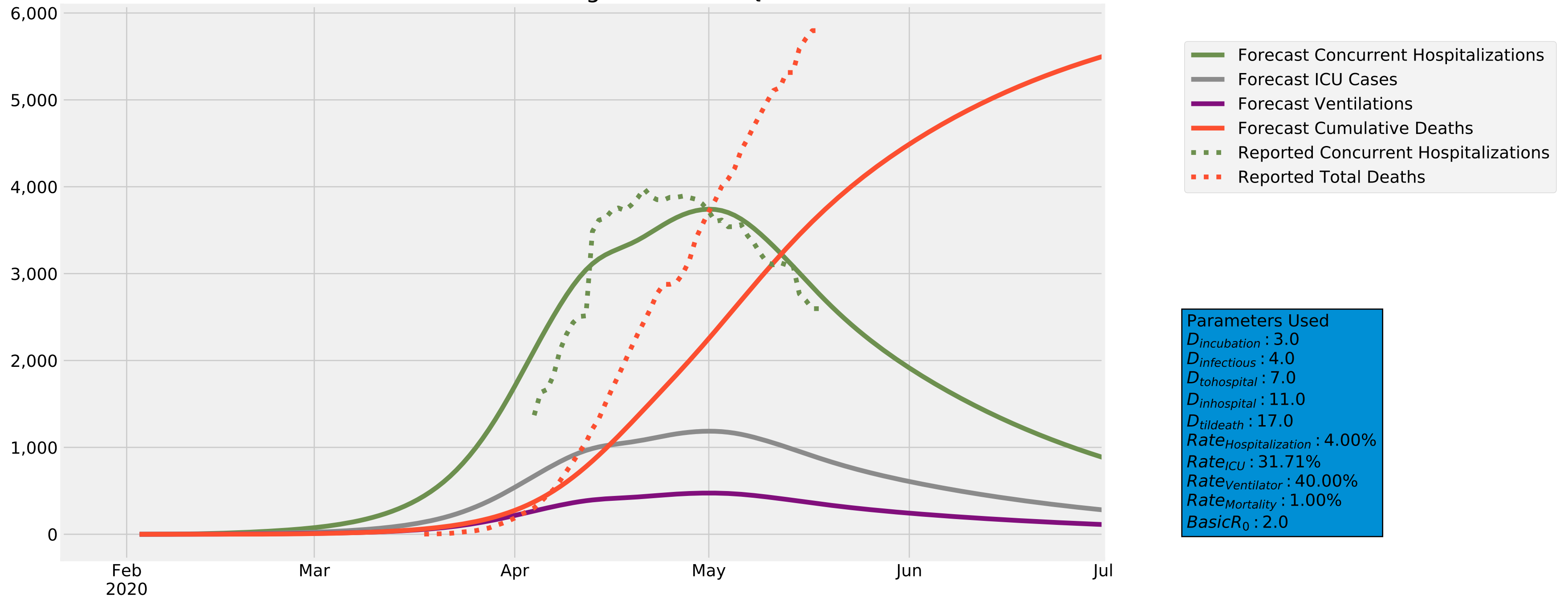
Simultaneous Infections Forecast

Massachusetts: No Change in Future R_t Scenario



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

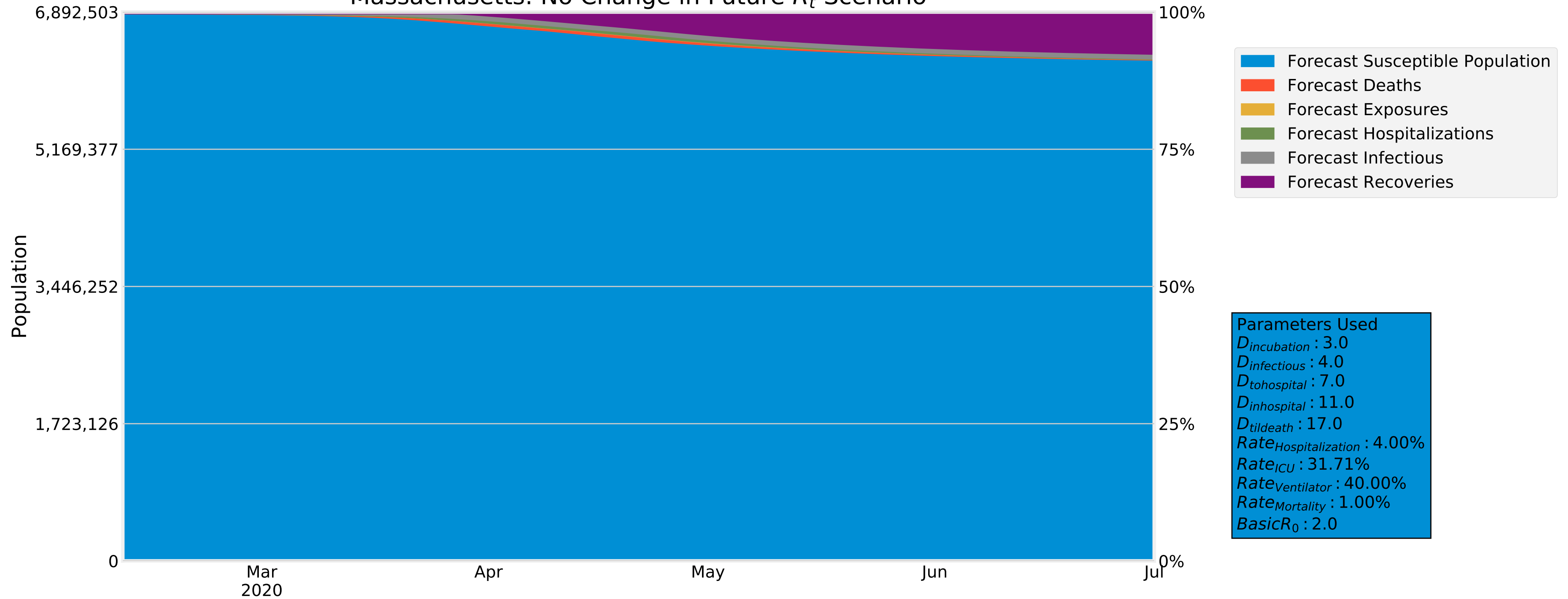
Hospitalization and Deaths Forecast Massachusetts: No Change in Future R_t Scenario



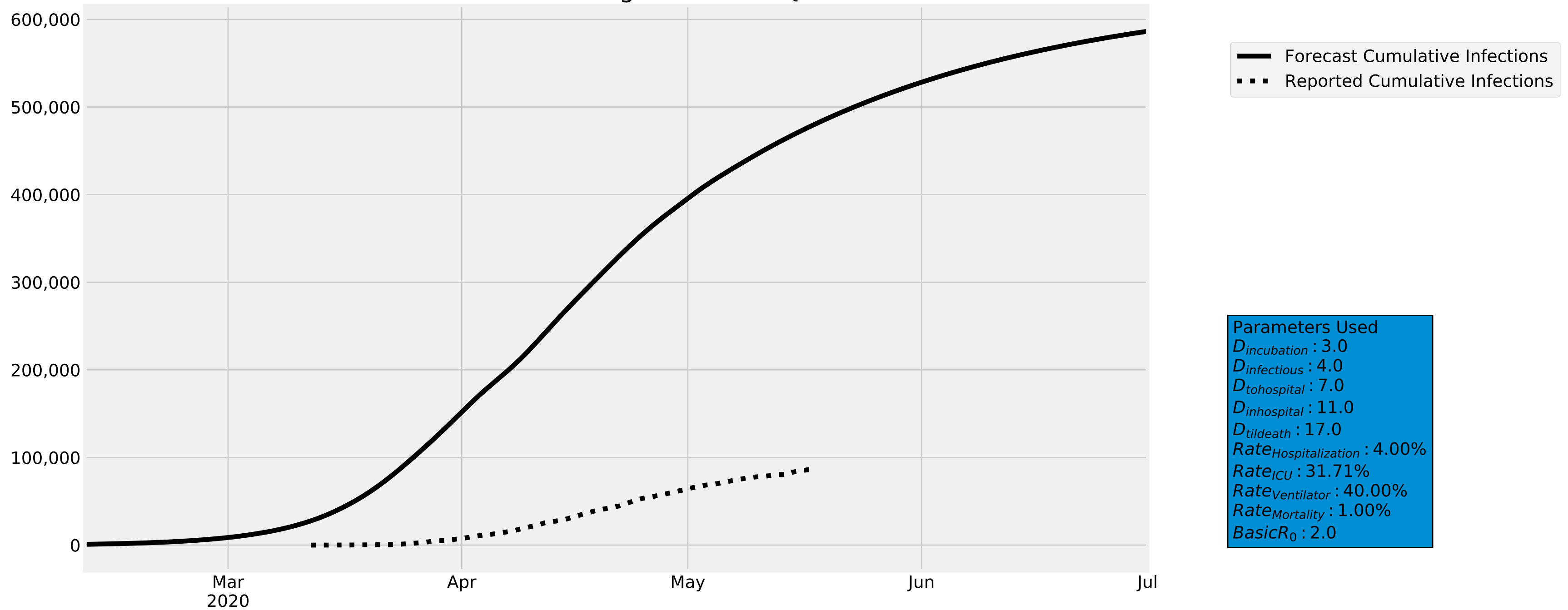
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

Massachusetts: No Change in Future R_t Scenario



Cumulative Infections Forecast Massachusetts: No Change in Future R_t Scenario

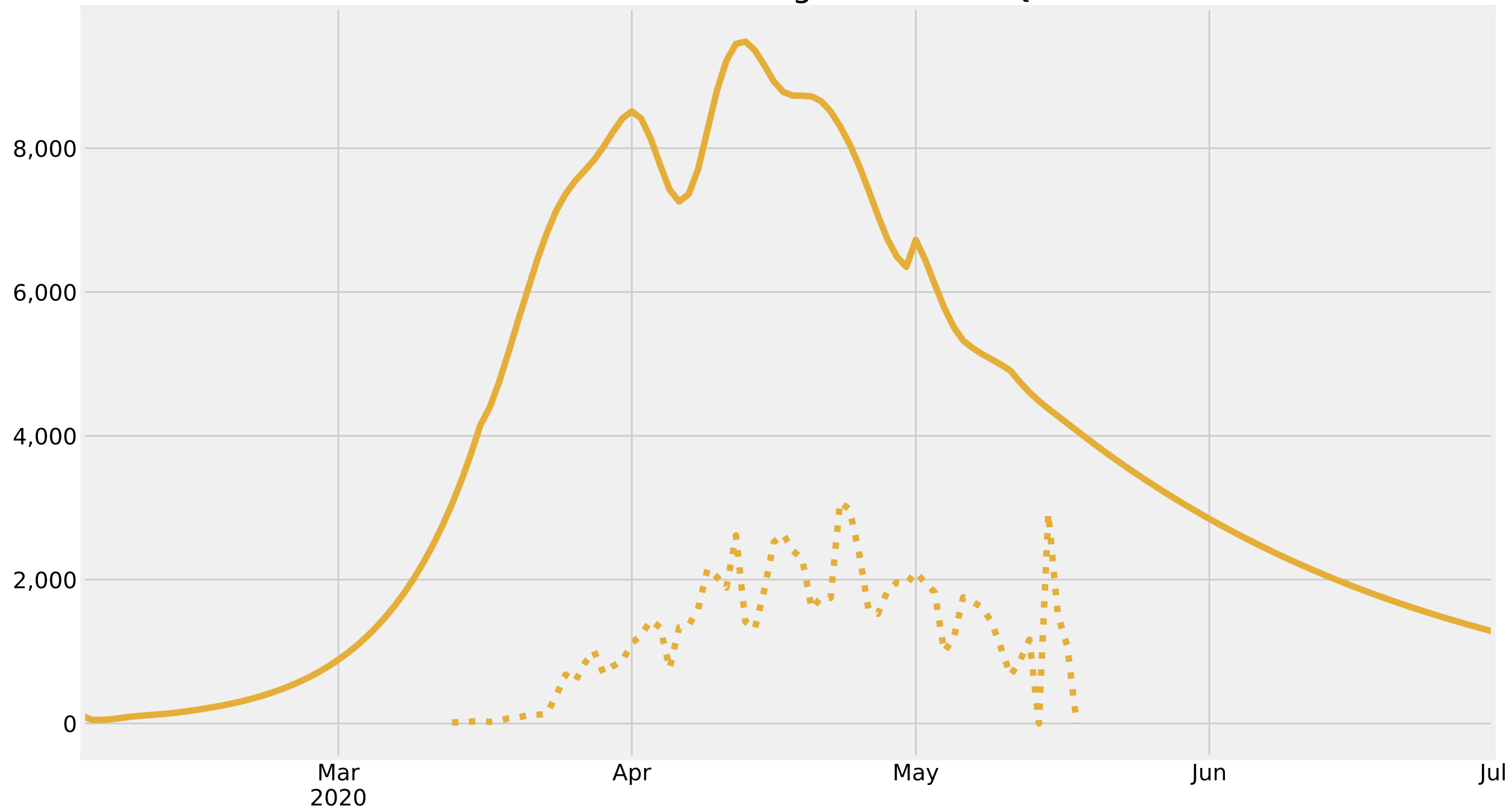


Parameters Used
 $D_{incubation}$: 3.0
 $D_{infectious}$: 4.0
 $D_{tohospital}$: 7.0
 $D_{inhospital}$: 11.0
 $D_{tildeath}$: 17.0
 $Rate_{Hospitalization}$: 4.00%
 $Rate_{ICU}$: 31.71%
 $Rate_{Ventilator}$: 40.00%
 $Rate_{Mortality}$: 1.00%
 $BasicR_0$: 2.0

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

Daily Exposures Forecast

Massachusetts: 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%

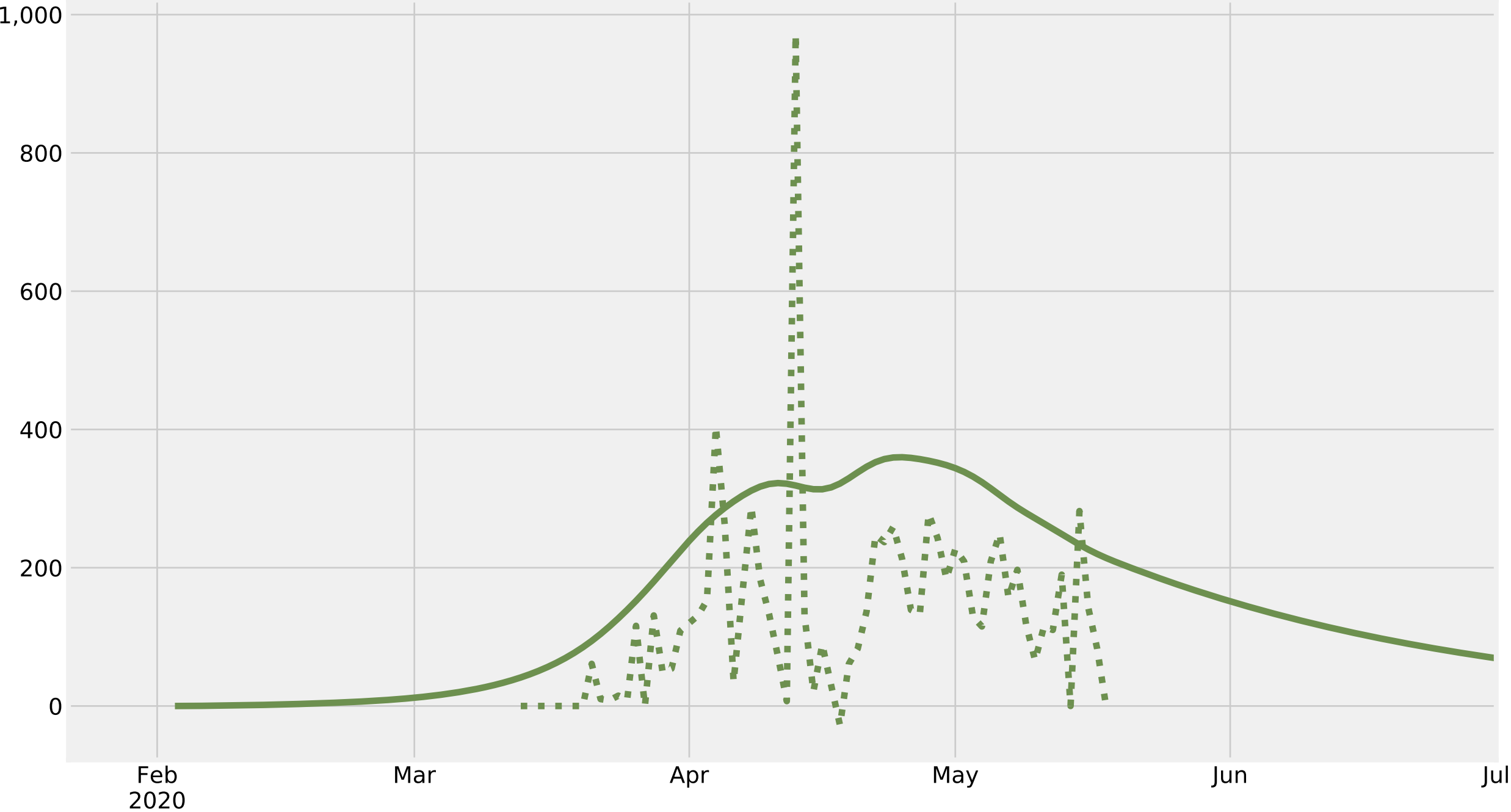
$Rate_{Mortality}$: 1.00%

$BasicR_0$: 2.0

Author: Michael Donnelly (twtr: @donnellymjd)

Chart created on 19 May 2020

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

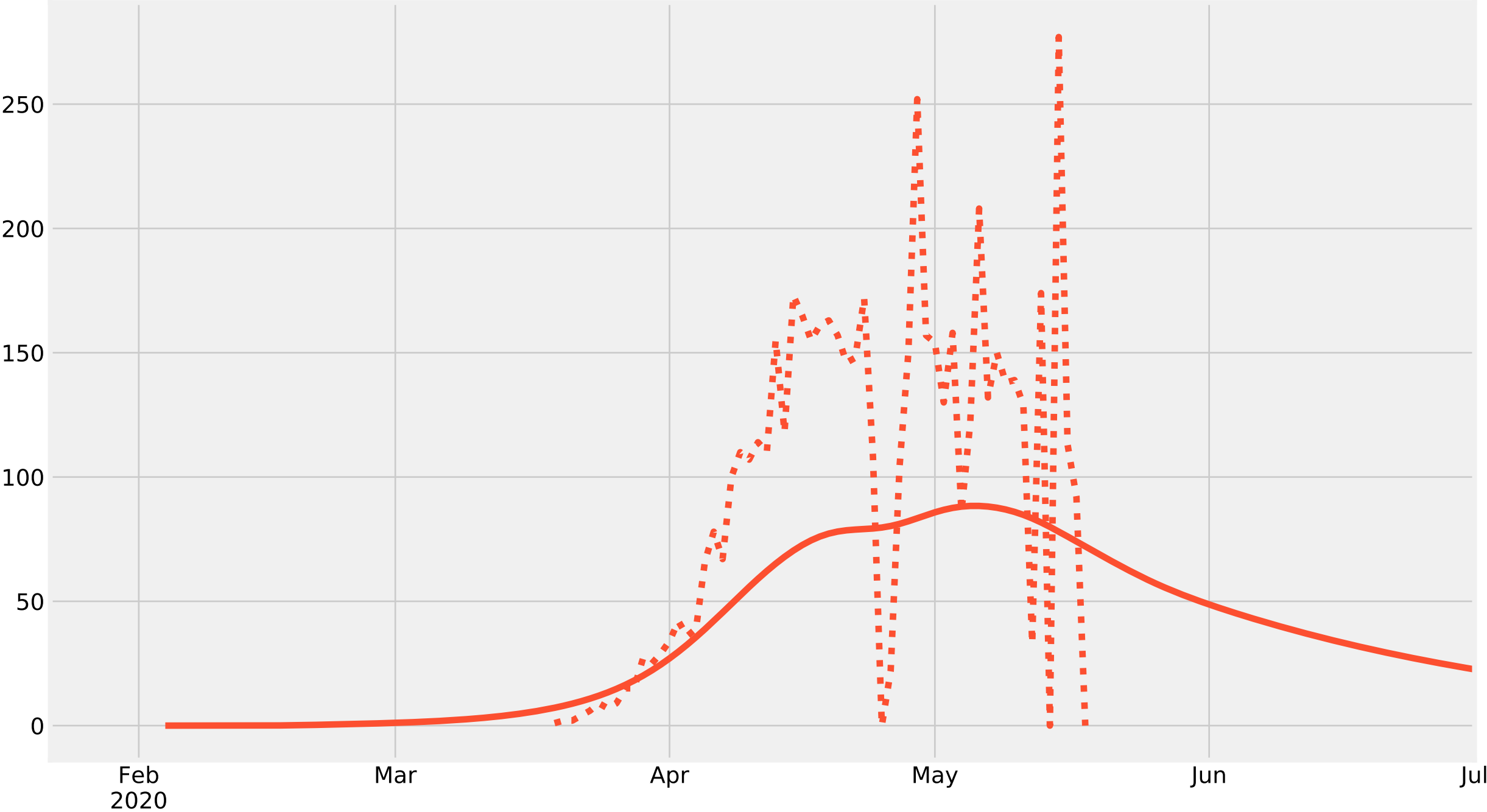


Forecast Hospital Admissions
Reported Hospital Admissions

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%
 $BasicR_0$: 2.0

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

Daily Deaths Forecast
Massachusetts: No Change in Future R_t Scenario

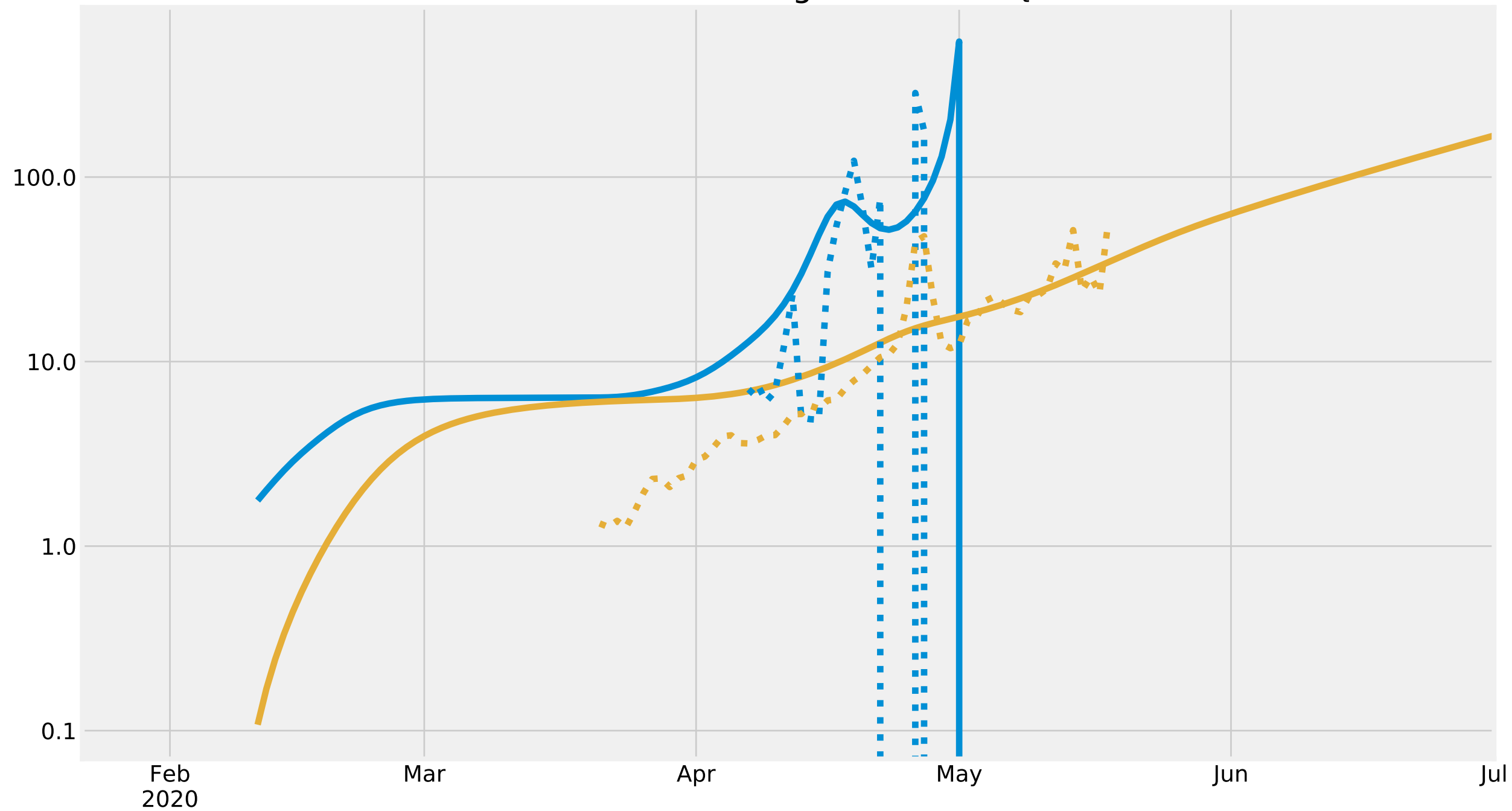


Forecast Daily Deaths
Reported Daily Deaths

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%
 $BasicR_0$: 2.0

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

Doubling Rate Forecast Massachusetts: No Change in Future R_t Scenario



hospitalized
deaths
Reported Concurrent Hospitalizations
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%
 $BasicR_0$: 2.0

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