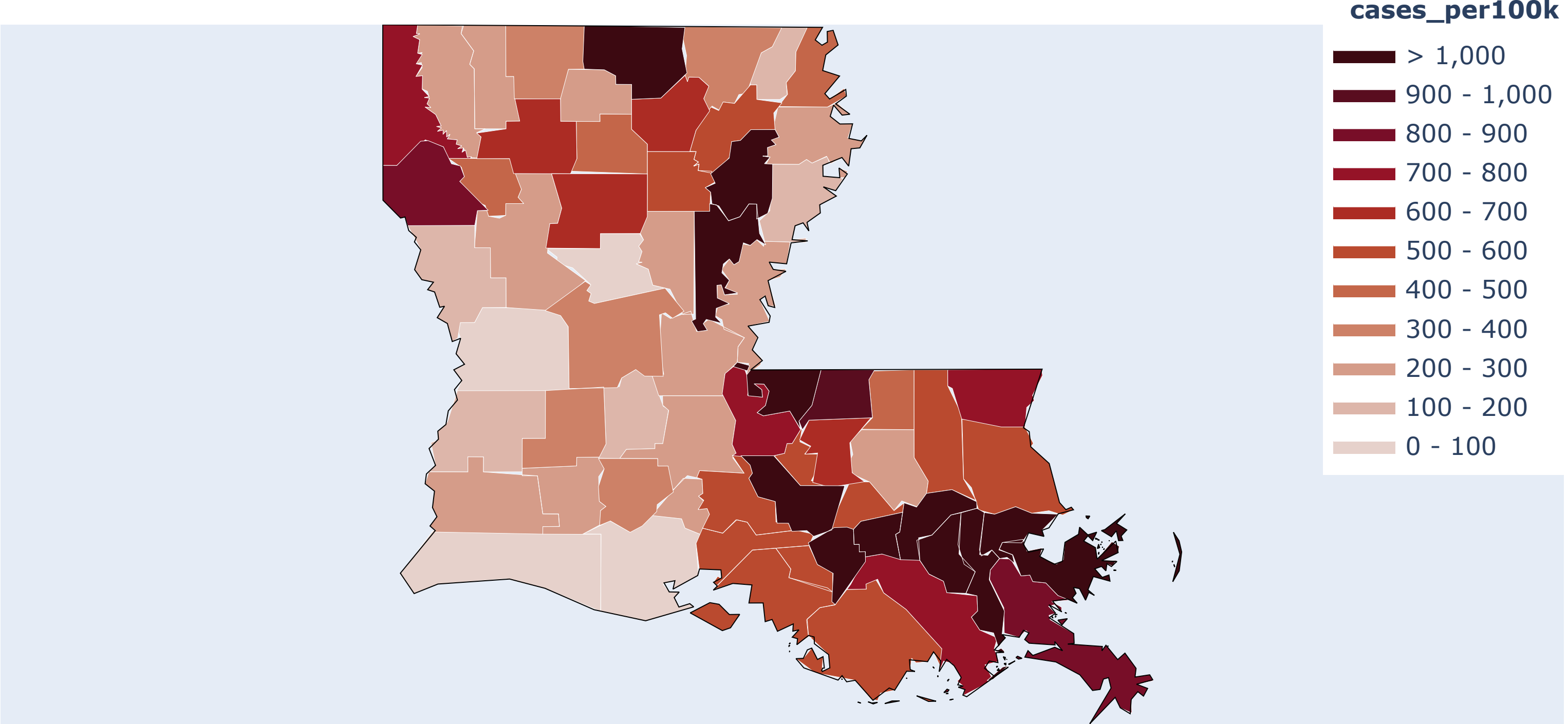
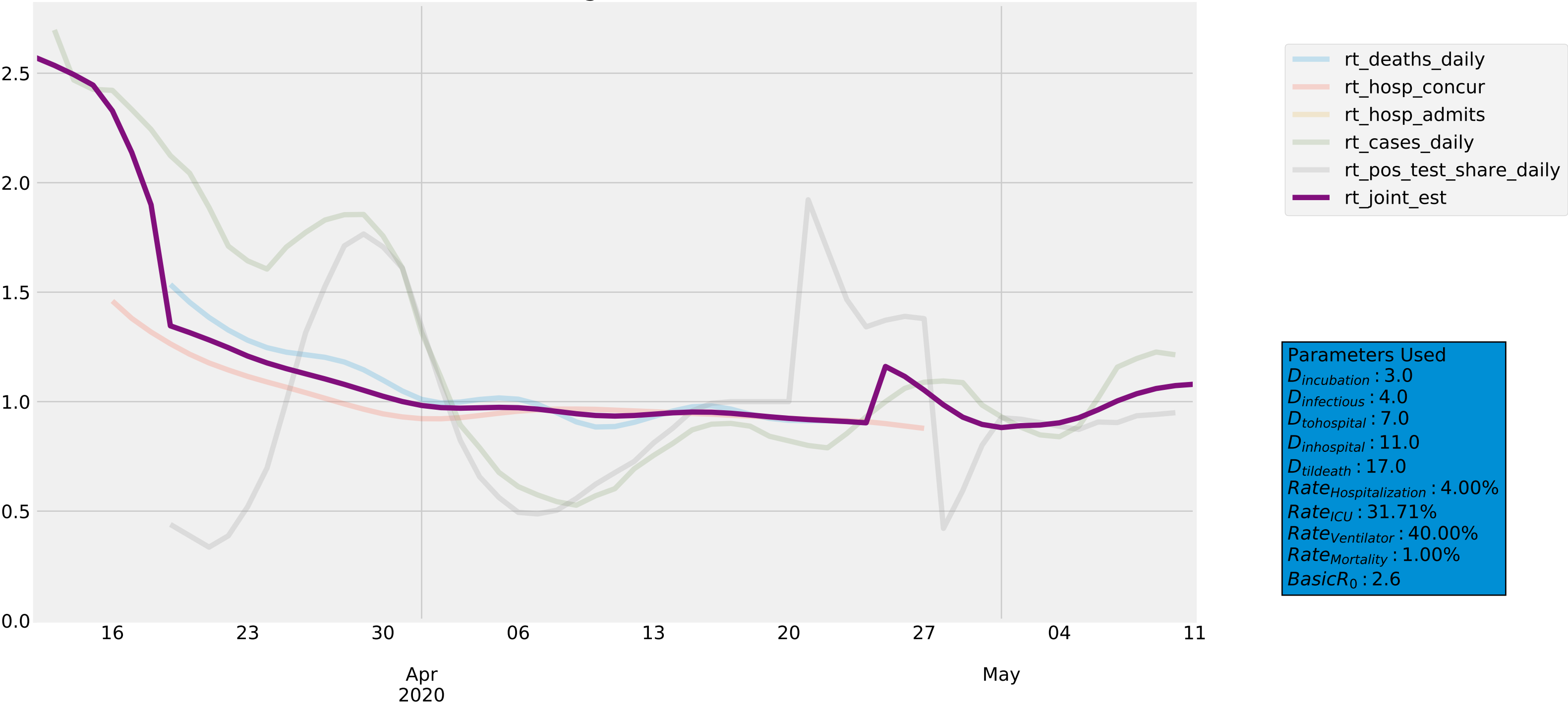


# Louisiana: COVID-19 Cases Per 100k Residents



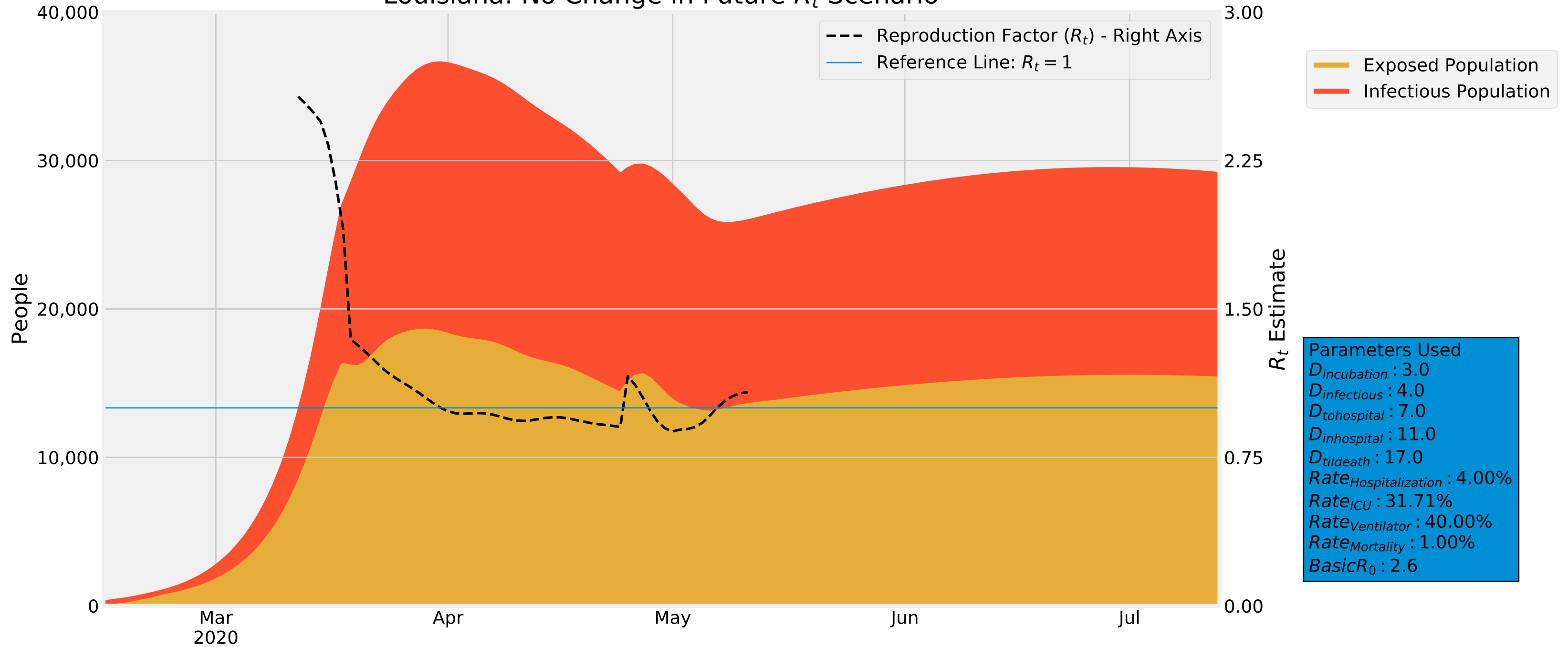
Reproduction Rate ( $R_t$ ) Estimates  
Louisiana: No Change in Future  $R_t$  Scenario



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

# Simultaneous Infections Forecast

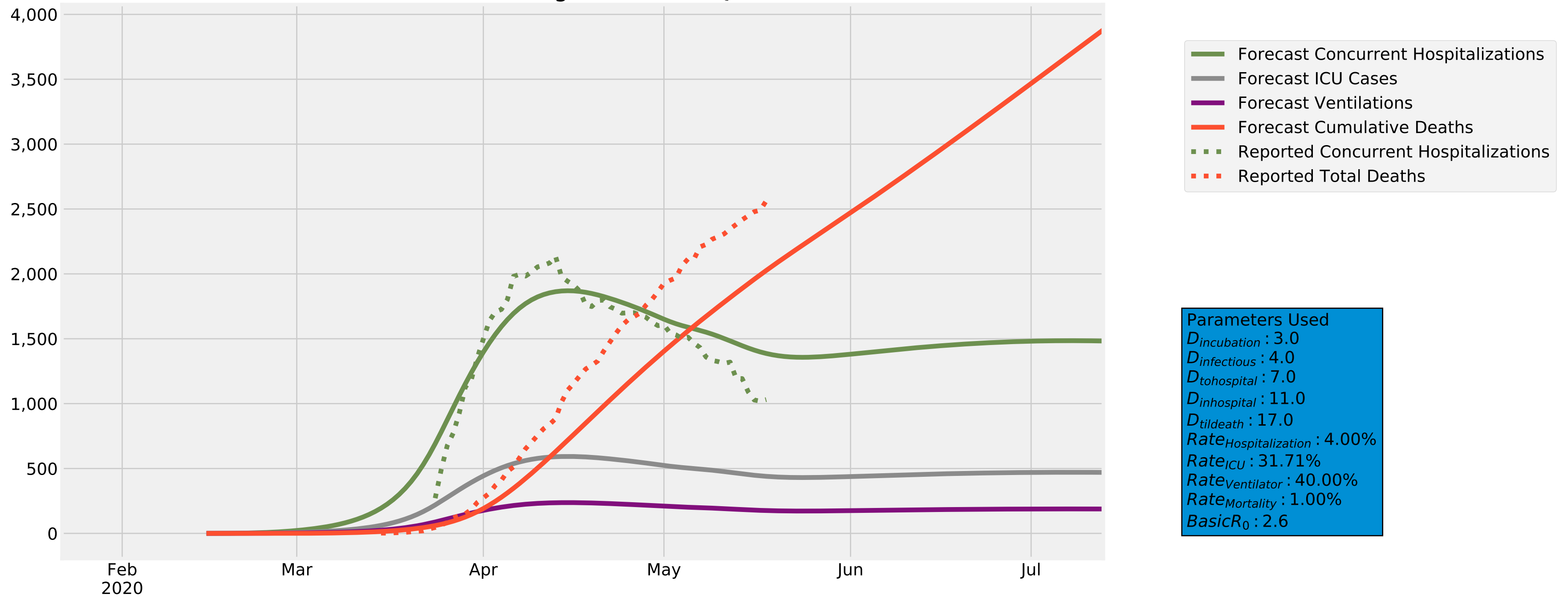
## Louisiana: No Change in Future $R_t$ Scenario



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

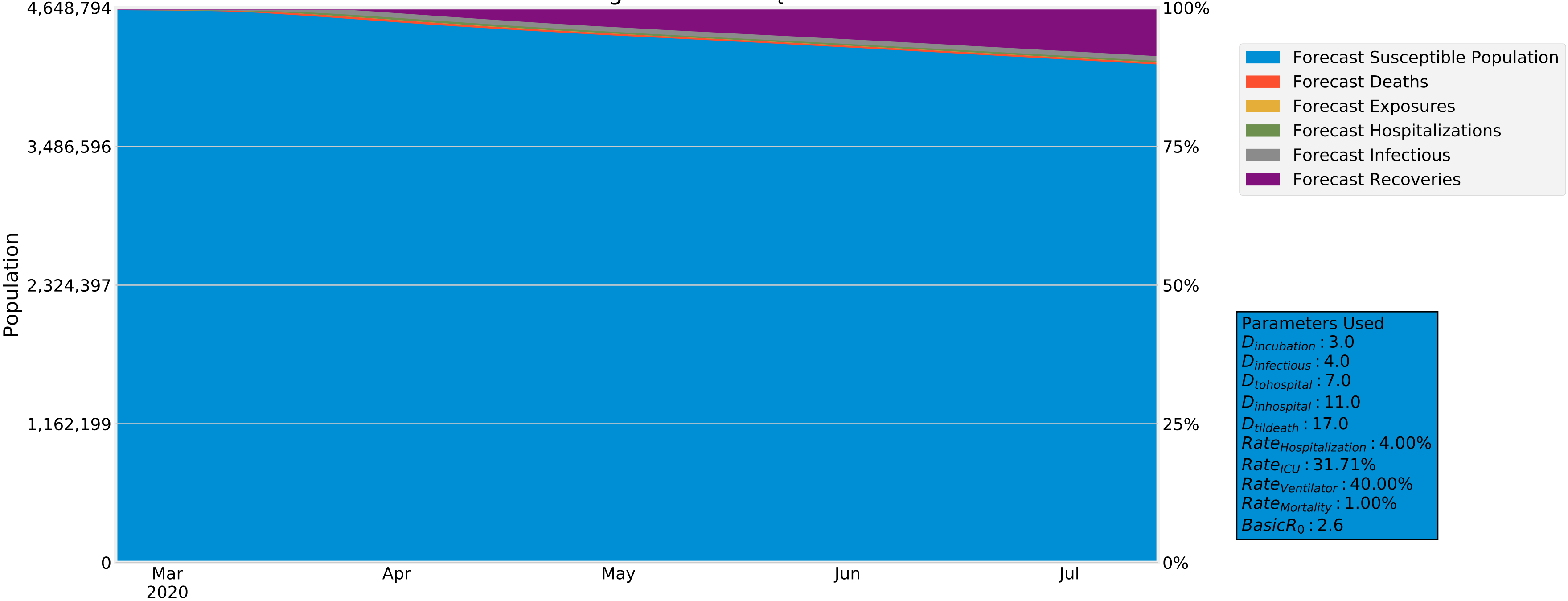
# Hospitalization and Deaths Forecast

## Louisiana: No Change in Future $R_t$ Scenario



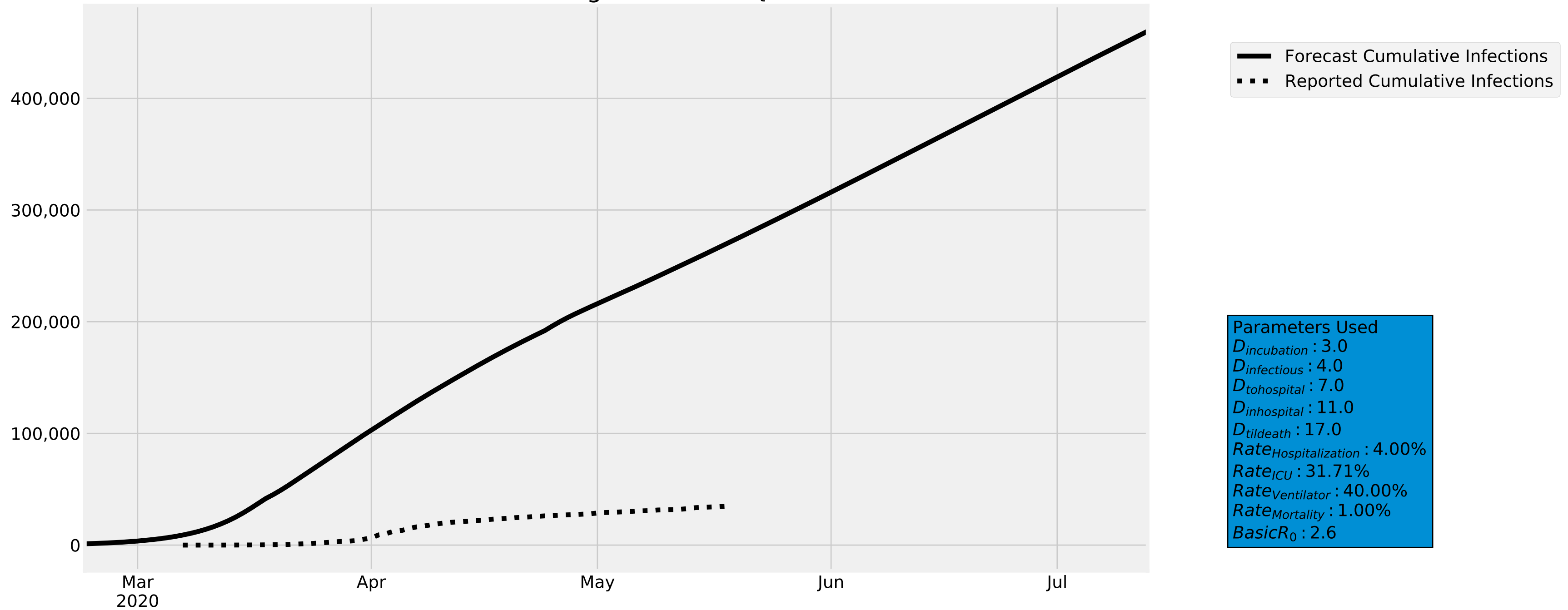
Author: Michael Donnelly (twtr: @donnellymjd)  
Chart created on 19 May 2020

Population Overview Forecast  
Louisiana: No Change in Future  $R_t$  Scenario



# Cumulative Infections Forecast

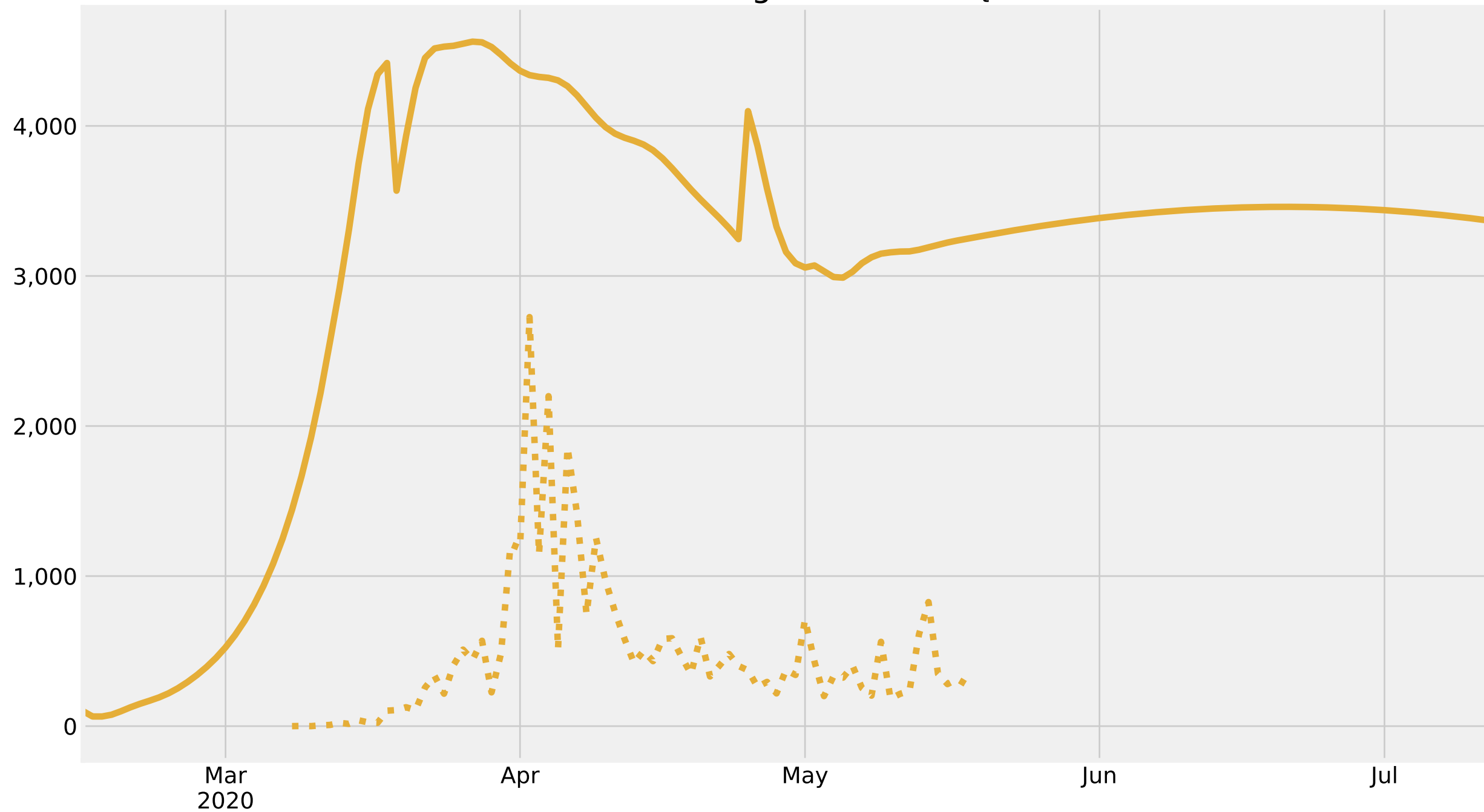
## Louisiana: No Change in Future $R_t$ Scenario



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

# Daily Exposures Forecast

## Louisiana: 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%

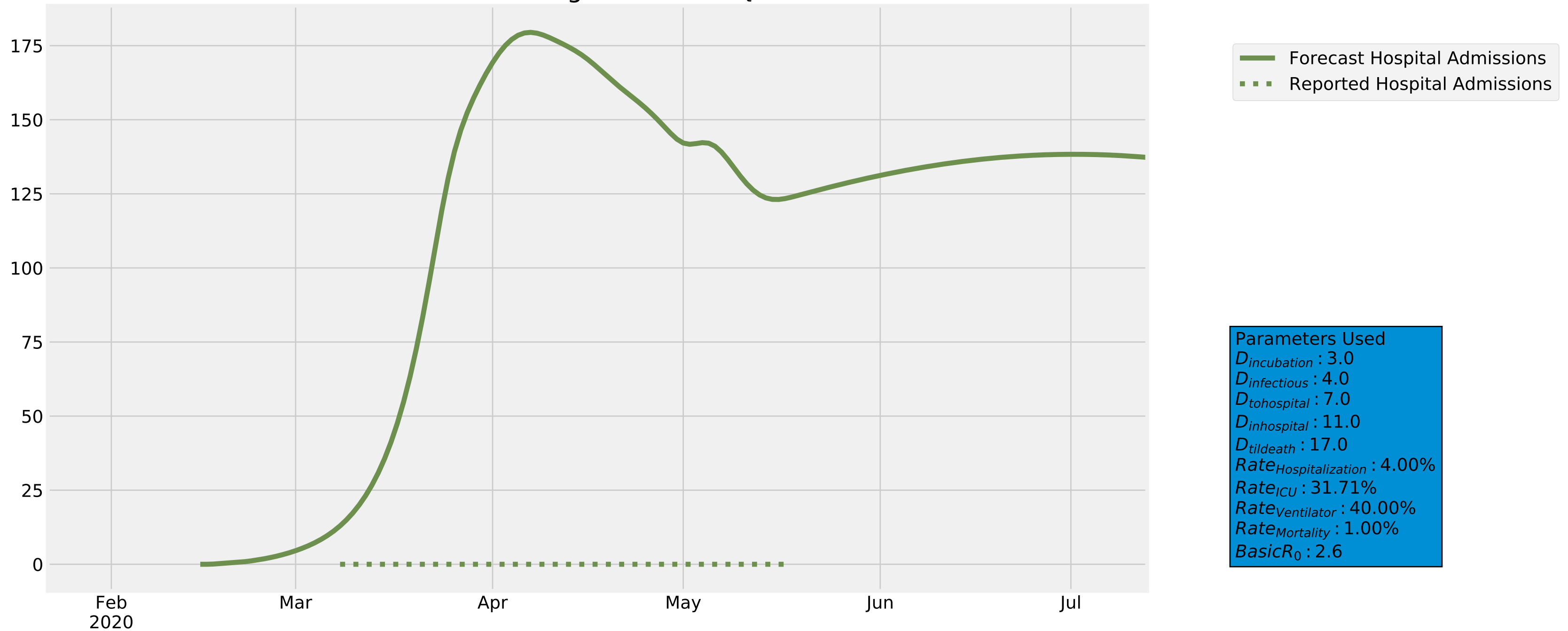
$BasicR_0$  : 2.6

Author: Michael Donnelly (twtr: @donnellymjd)

Chart created on 19 May 2020

# Daily Hospital Admissions Forecast

## Louisiana: No Change in Future $R_t$ Scenario



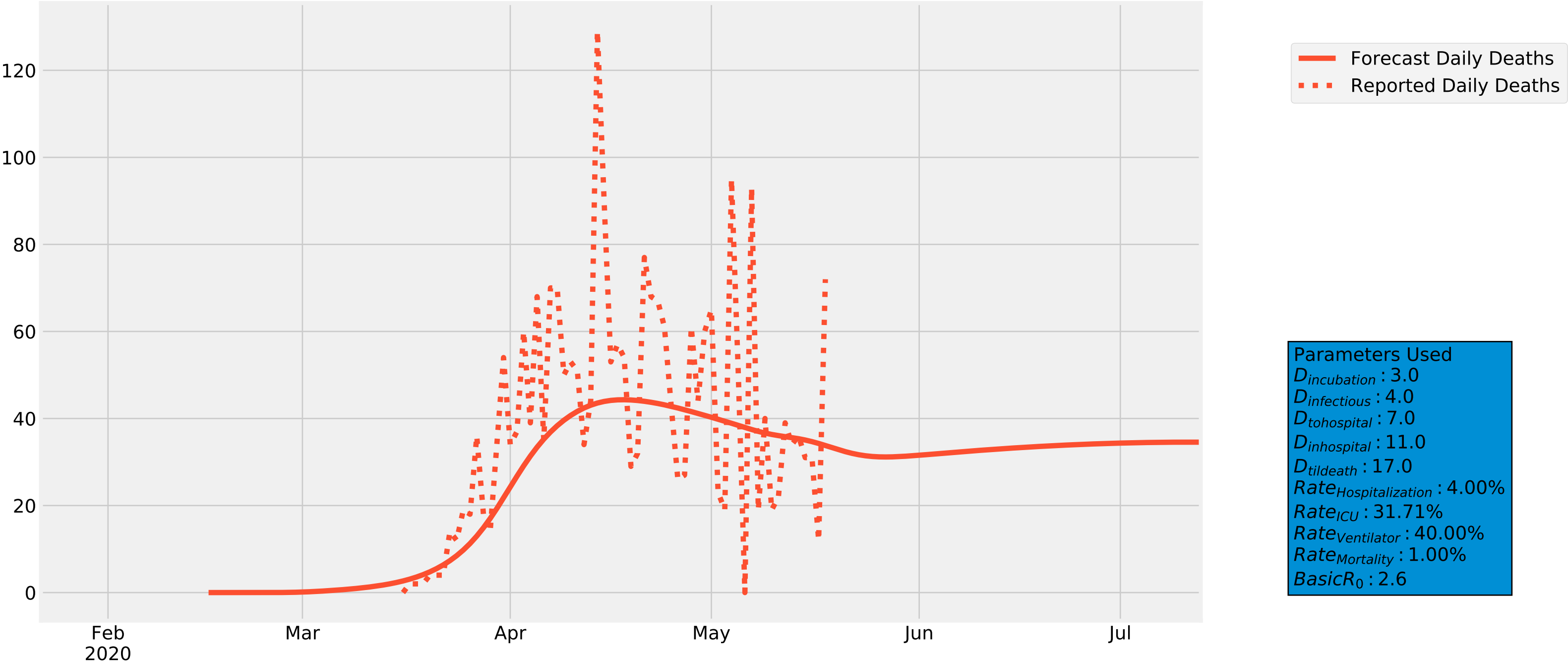
Parameters Used

- $D_{incubation}$  : 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%
- $BasicR_0$  : 2.6

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



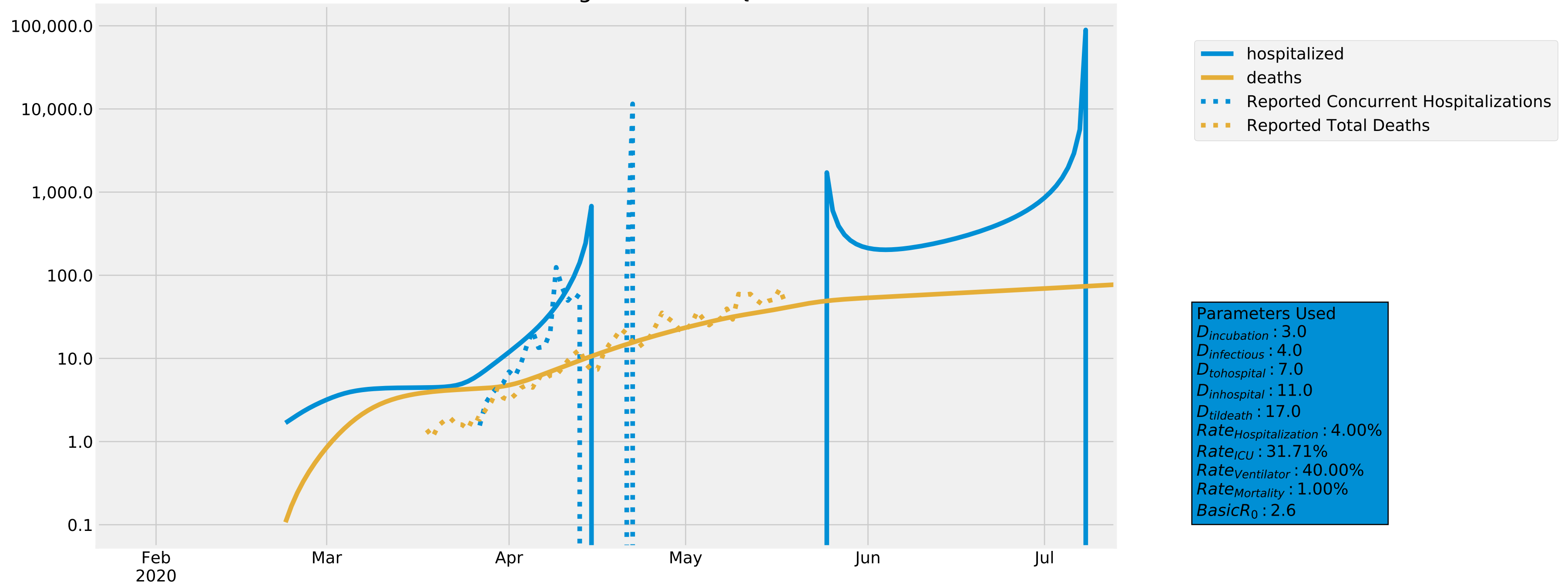
Daily Deaths Forecast  
Louisiana: No Change in Future  $R_t$  Scenario



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

# Doubling Rate Forecast

## Louisiana: No Change in Future $R_t$ Scenario



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