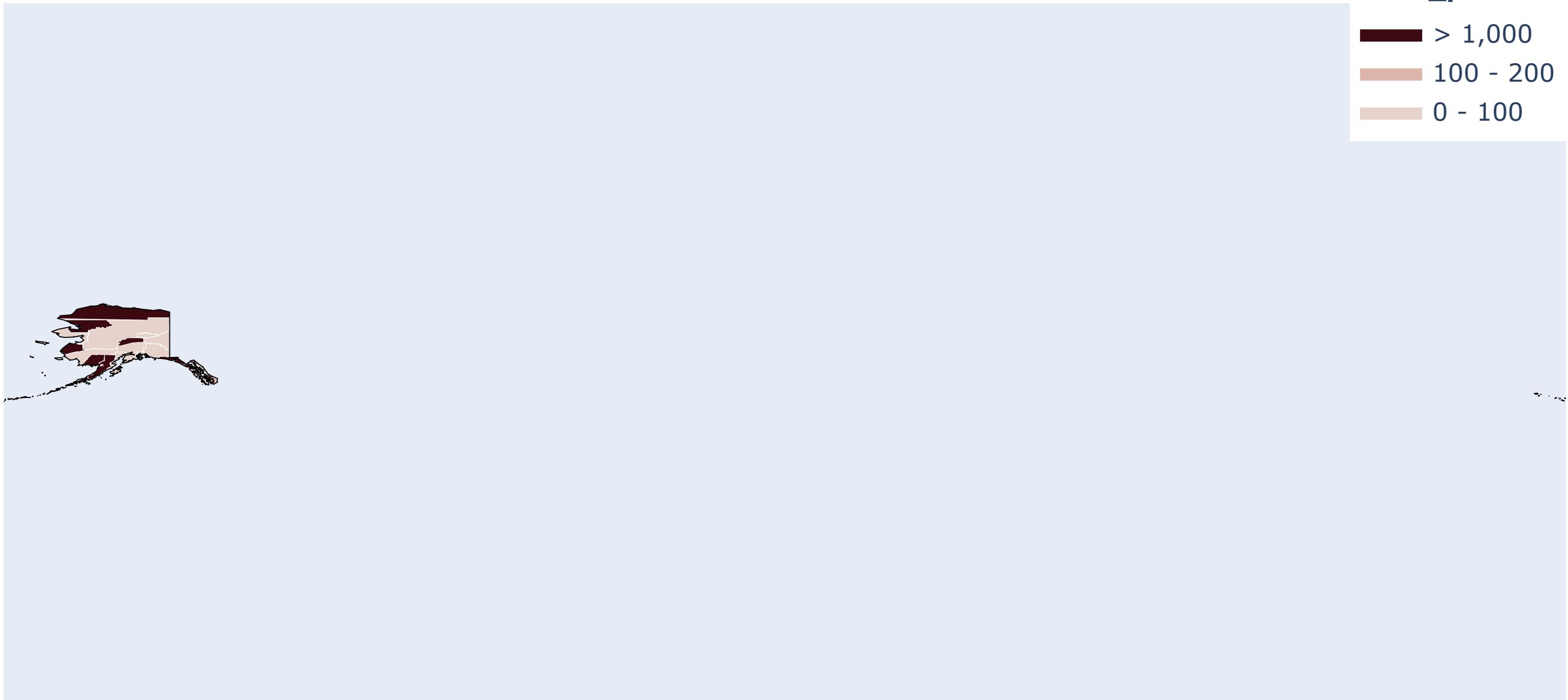
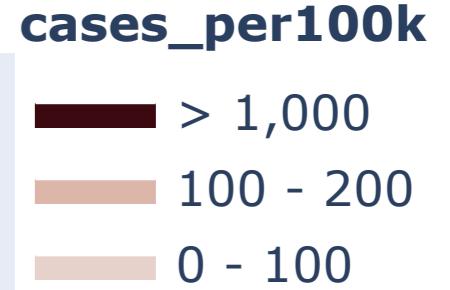
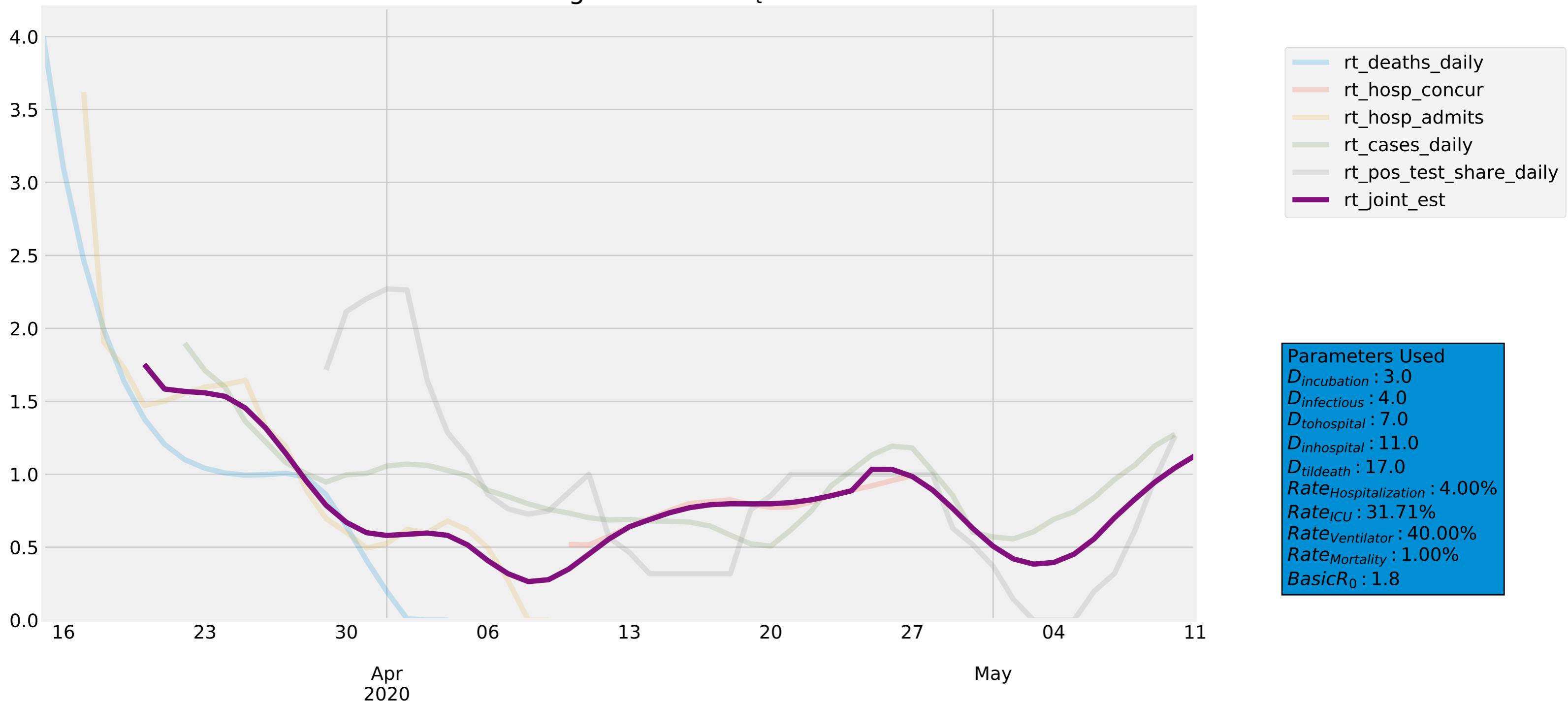


Alaska: COVID-19 Cases Per 100k Residents



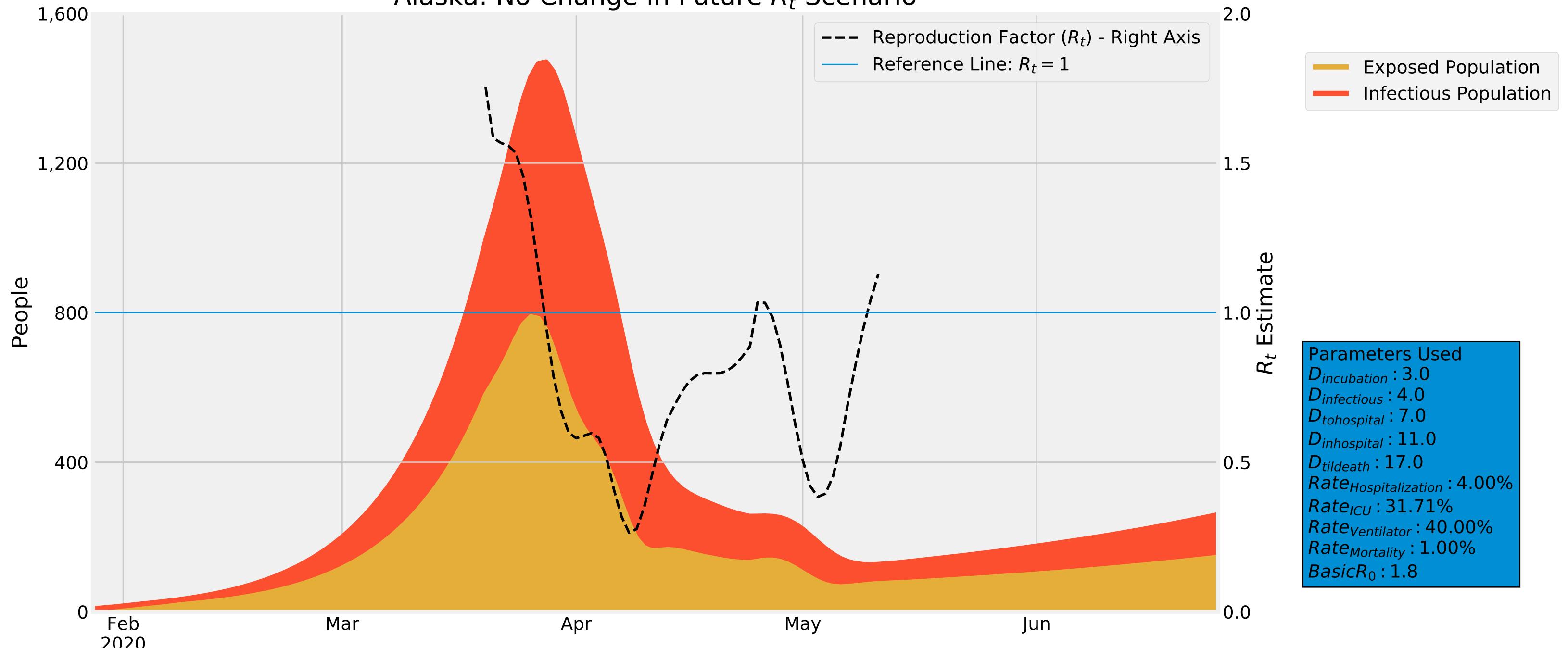
Reproduction Rate (R_t) Estimates Alaska: No Change in Future R_t Scenario



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

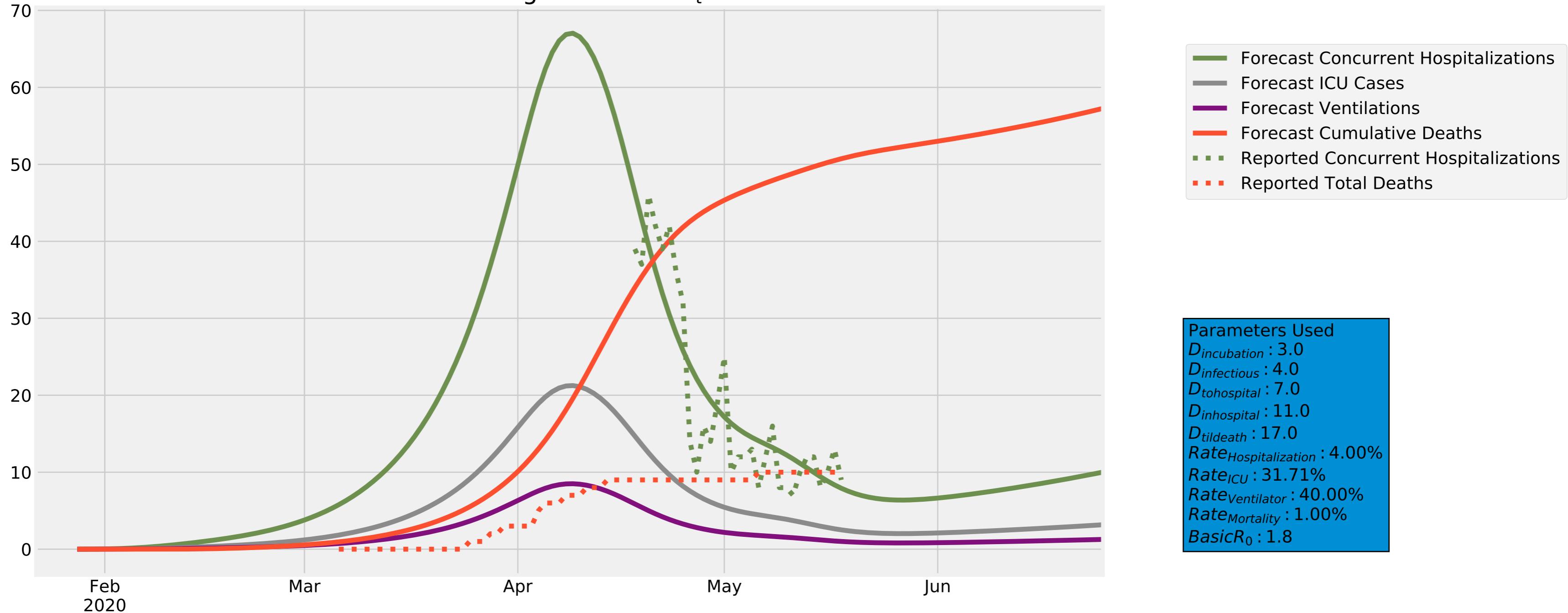
Simultaneous Infections Forecast

Alaska: No Change in Future R_t Scenario



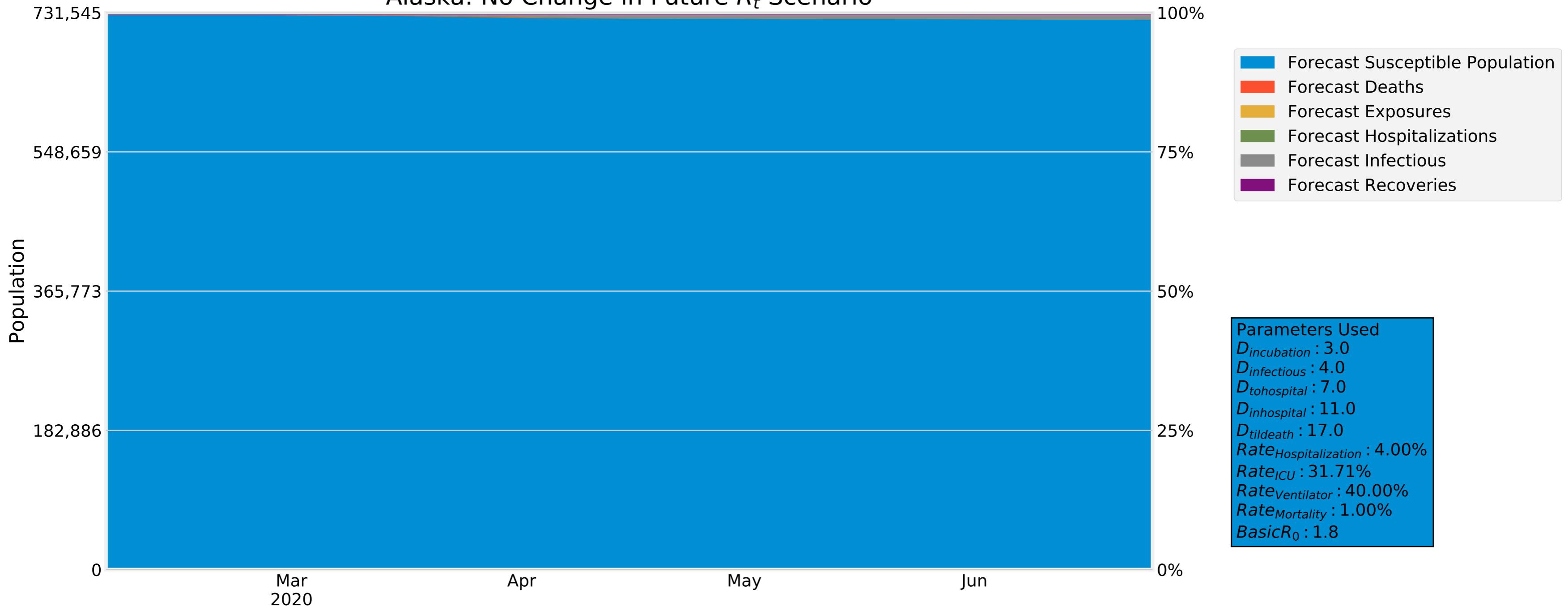
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

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

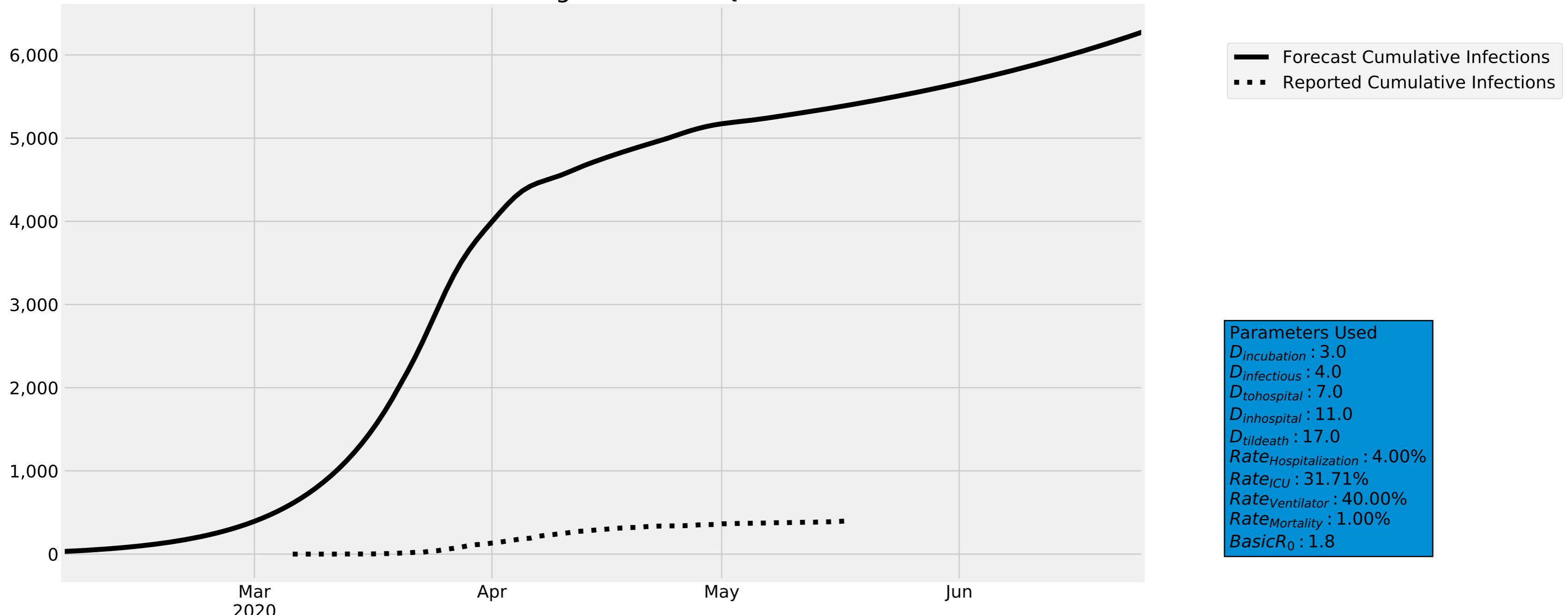


Author: Michael Donnelly (twtr: @donnellymj)
Chart created on 19 May 2020

Population Overview Forecast Alaska: No Change in Future R_t Scenario



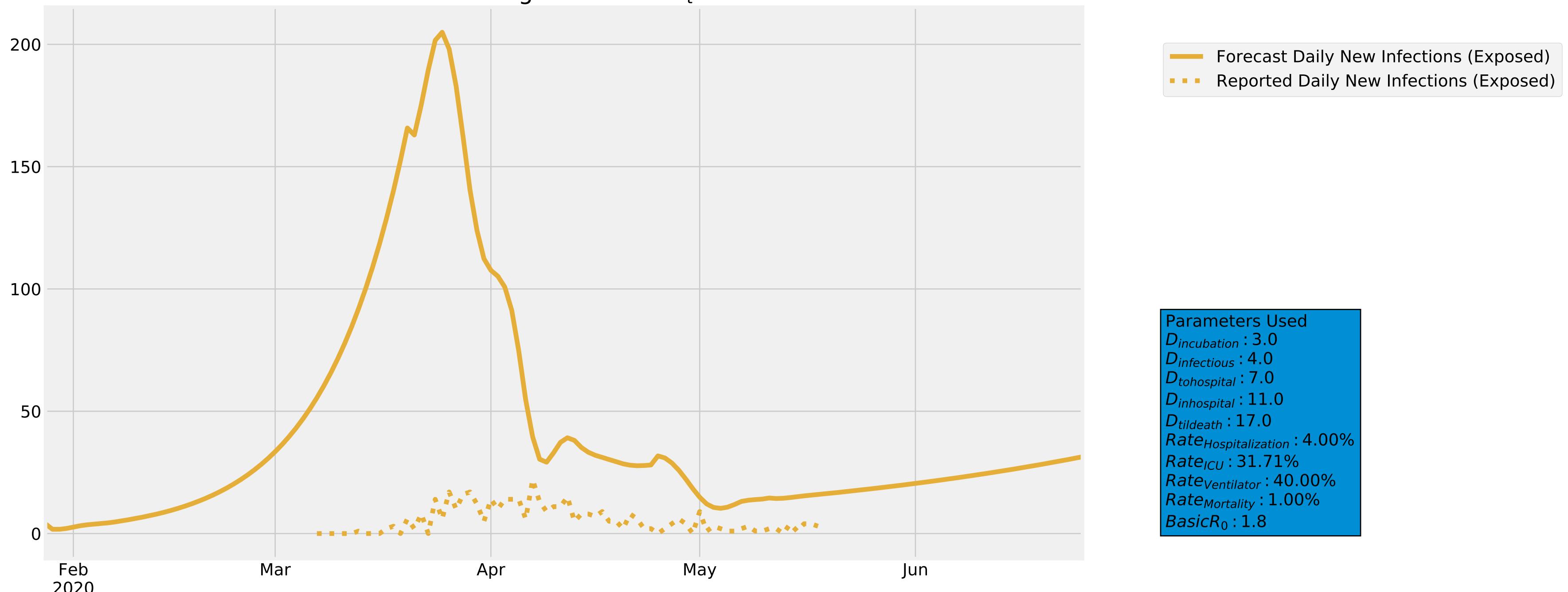
Cumulative Infections Forecast Alaska: No Change in Future R_t Scenario



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%
$BasicR_0$: 1.8

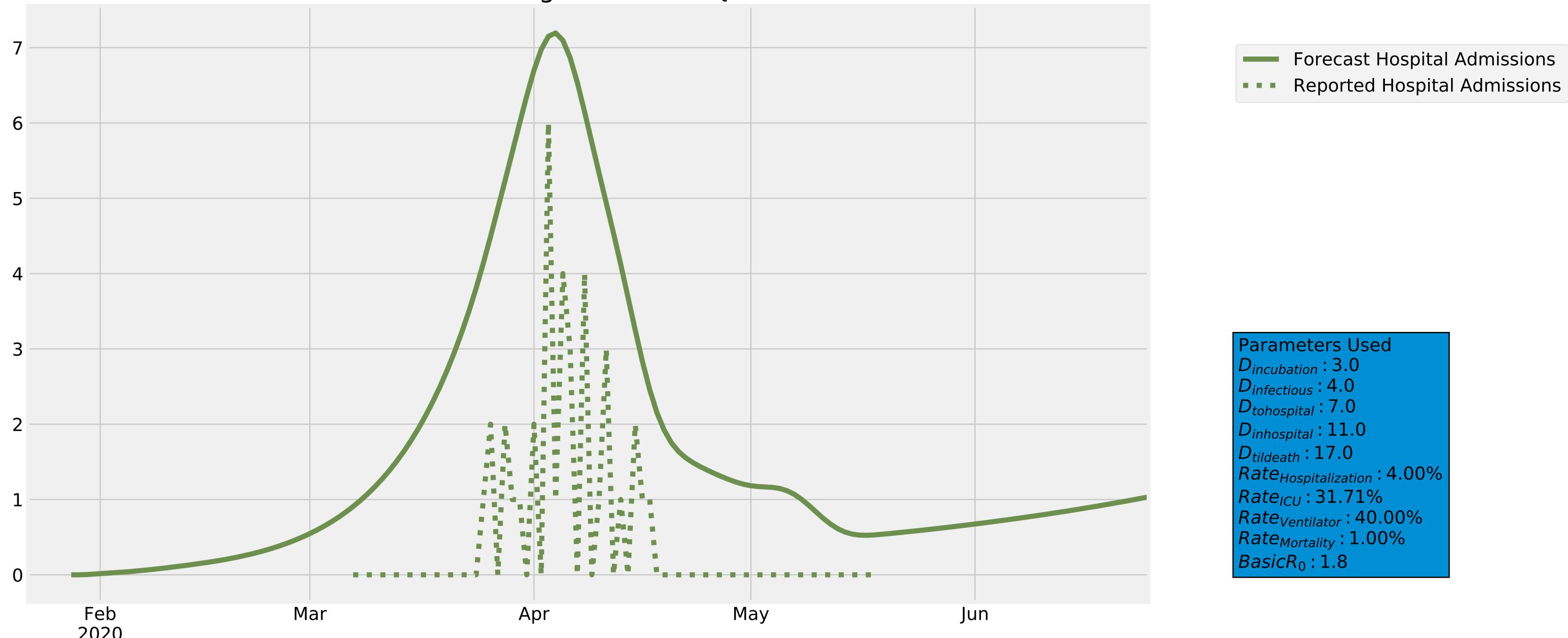
Daily Exposures Forecast Alaska: No Change in Future R_t Scenario



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%
 $BasicR_0$: 1.8

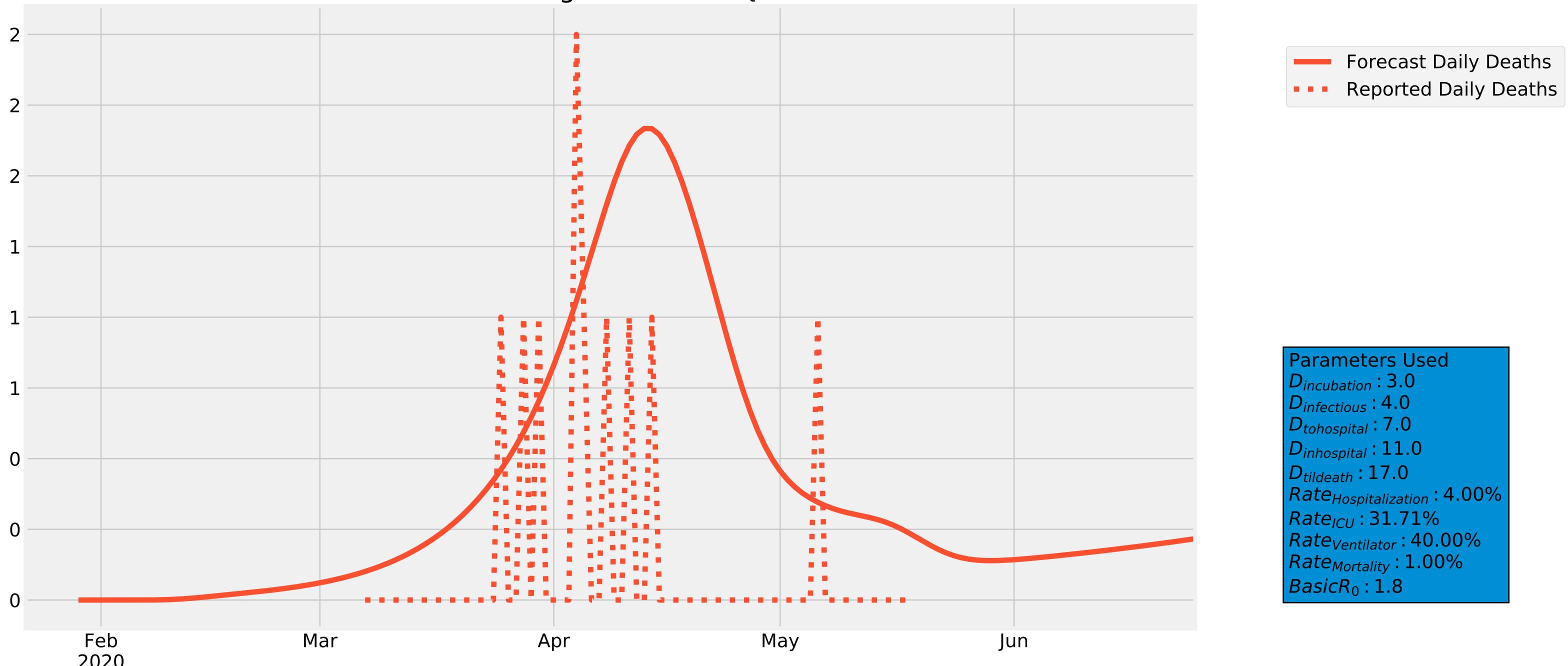
Daily Hospital Admissions Forecast Alaska: No Change in Future R_t Scenario



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%
$BasicR_0$: 1.8

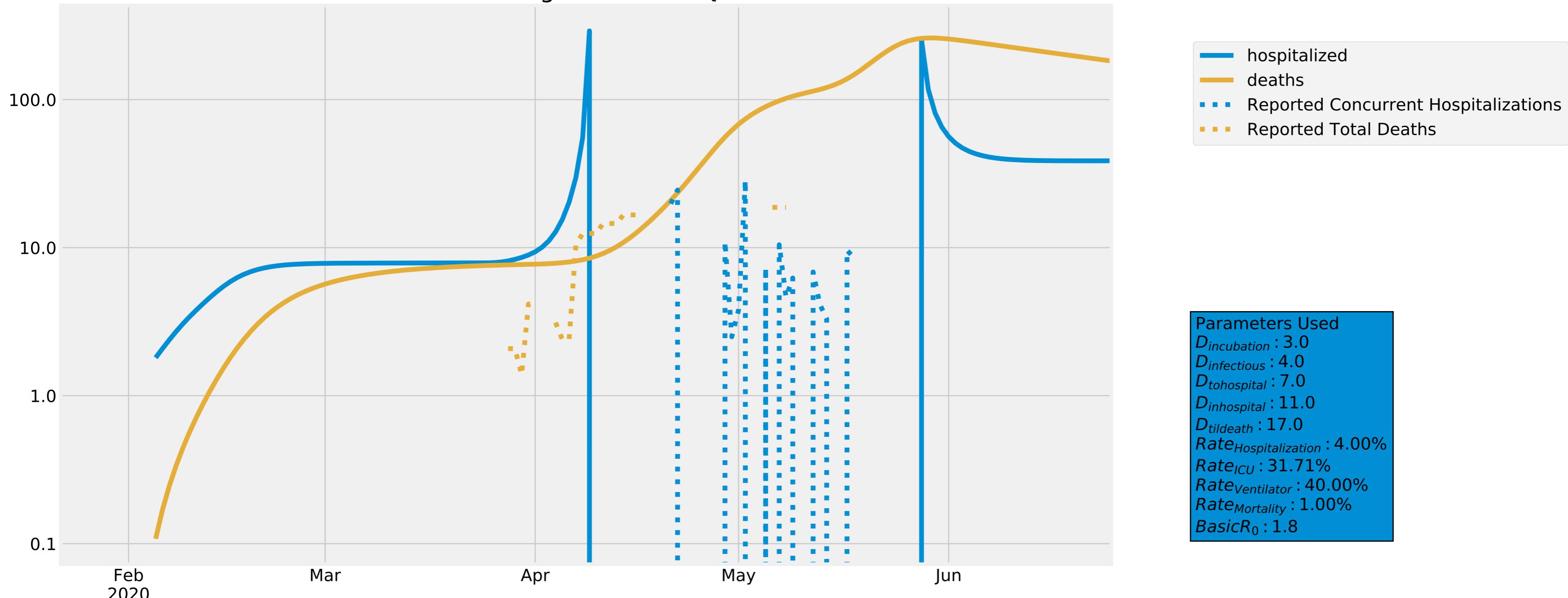
Daily Deaths Forecast Alaska: No Change in Future R_t Scenario



Parameters Used

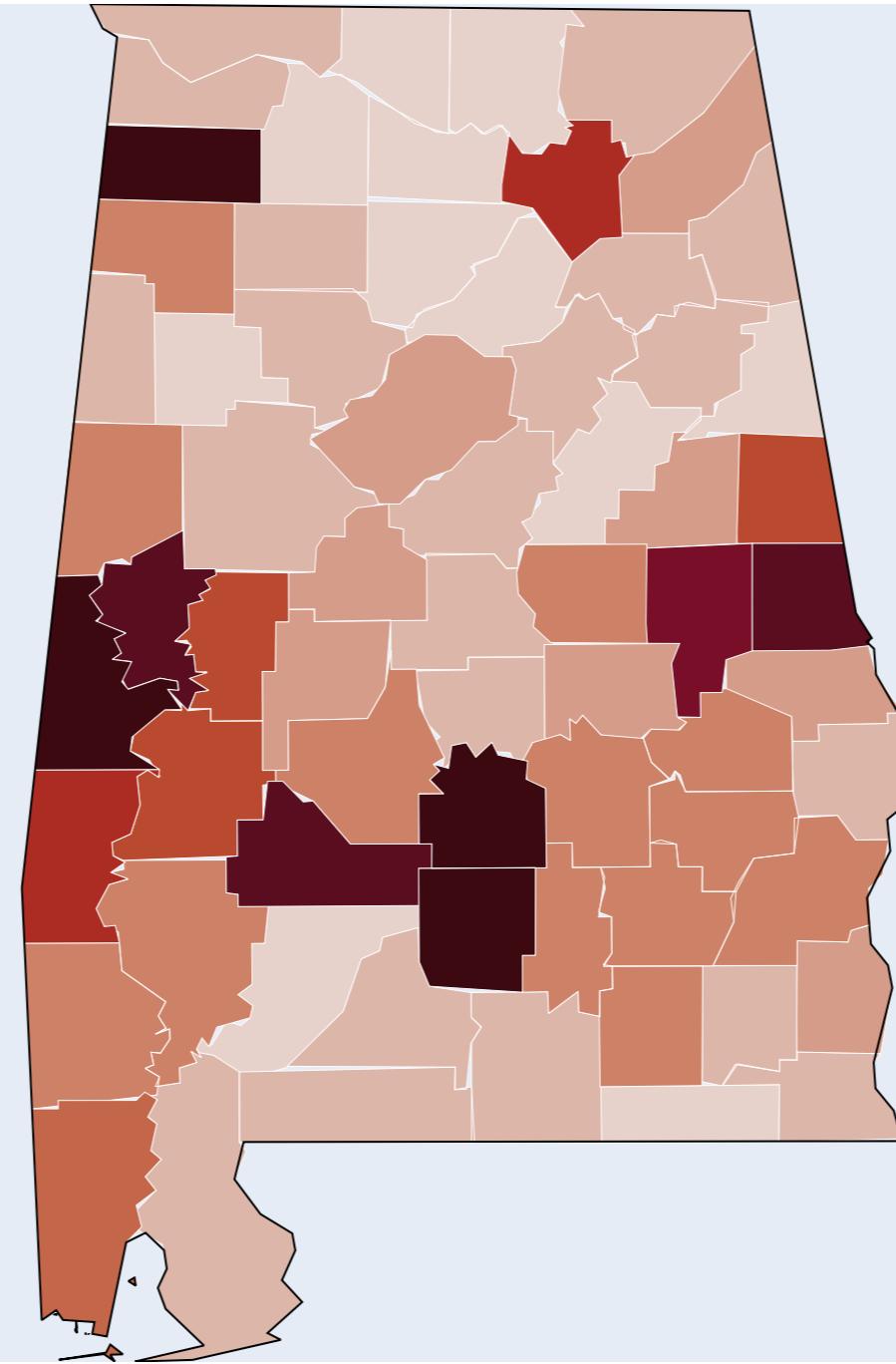
$D_{incubation}$: 3.0
 $D_{infectious}$: 4.0
 $D_{tohospital}$: 7.0
 $D_{inhospital}$: 11.0
 $D_{tildeath}$: 17.0
 $Rate_{Hospitalization}$: 4.00%
 $Rate_{ICU}$: 31.71%
 $Rate_{Ventilator}$: 40.00%
 $Rate_{Mortality}$: 1.00%
 $BasicR_0$: 1.8

Doubling Rate Forecast Alaska: No Change in Future R_t Scenario

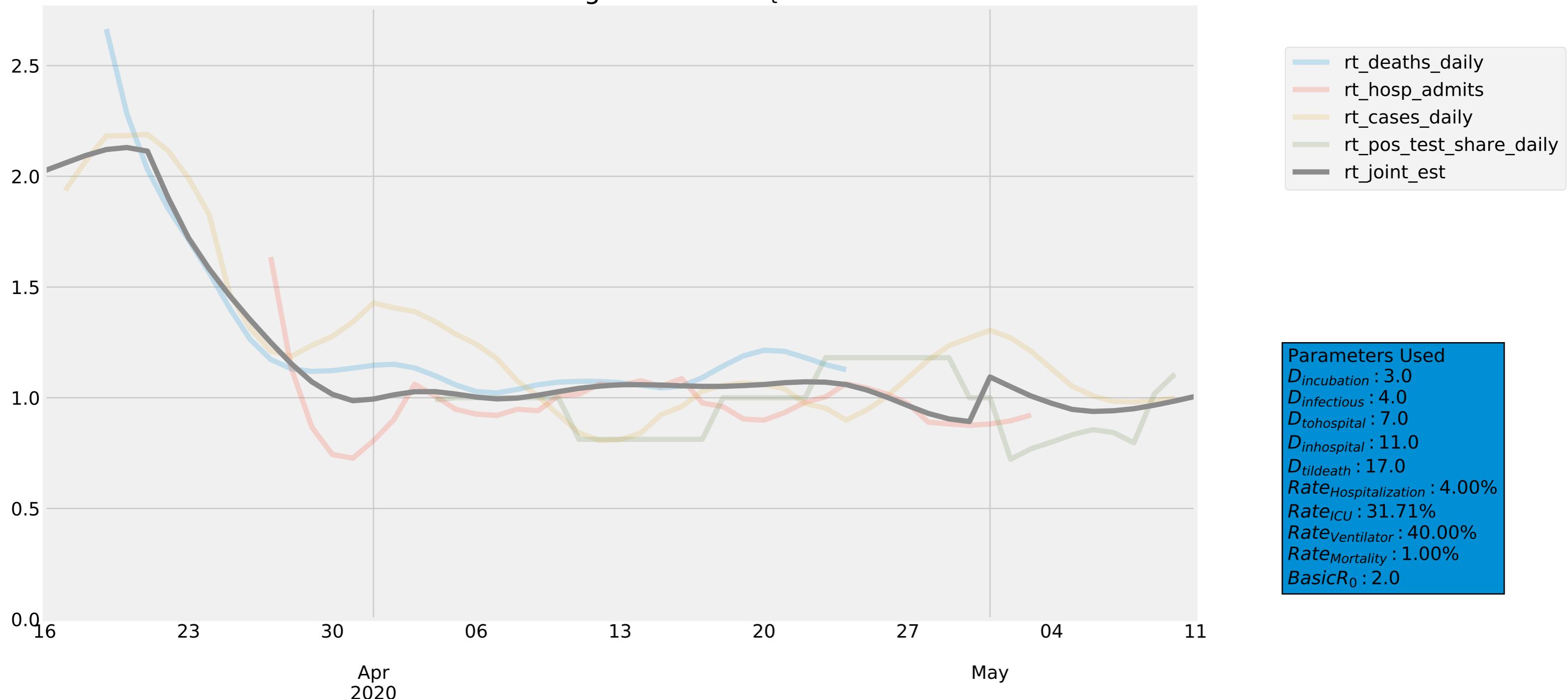


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Alabama: COVID-19 Cases Per 100k Residents

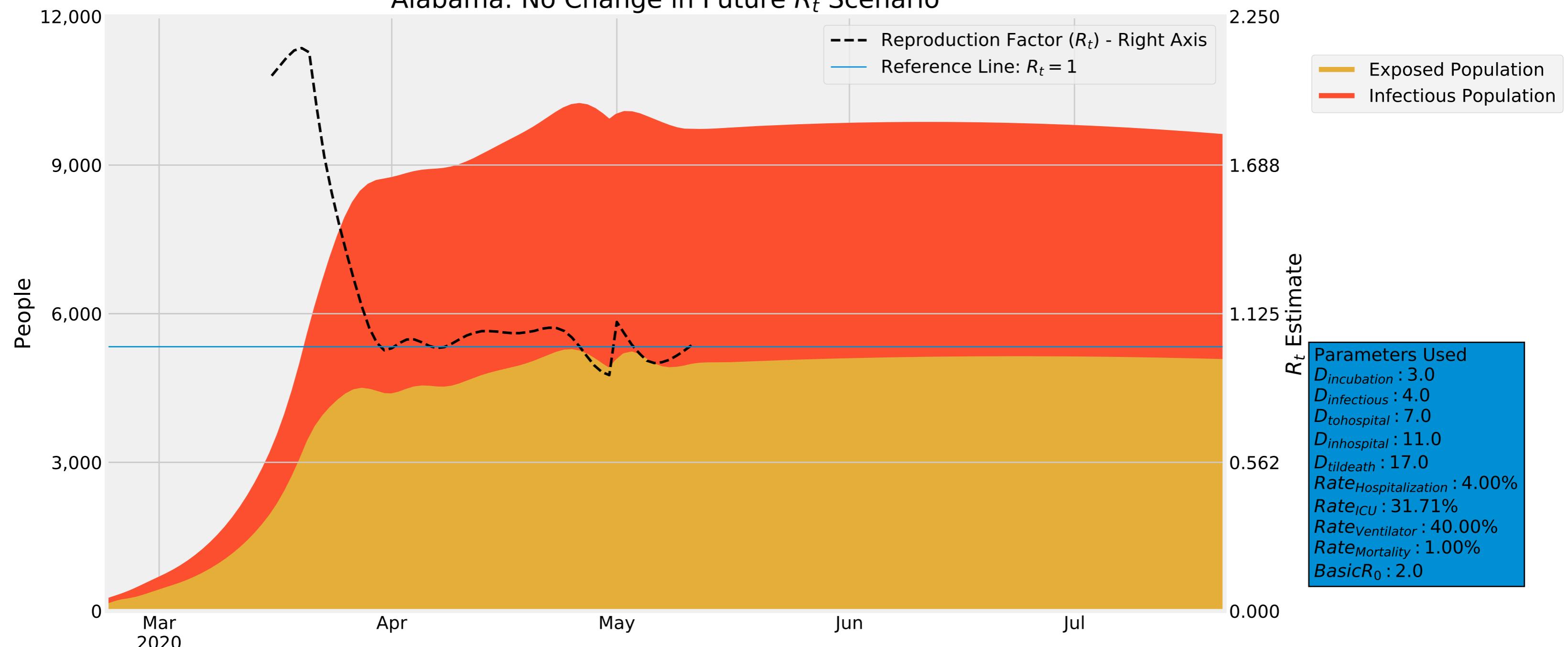


Reproduction Rate (R_t) Estimates Alabama: No Change in Future R_t Scenario



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

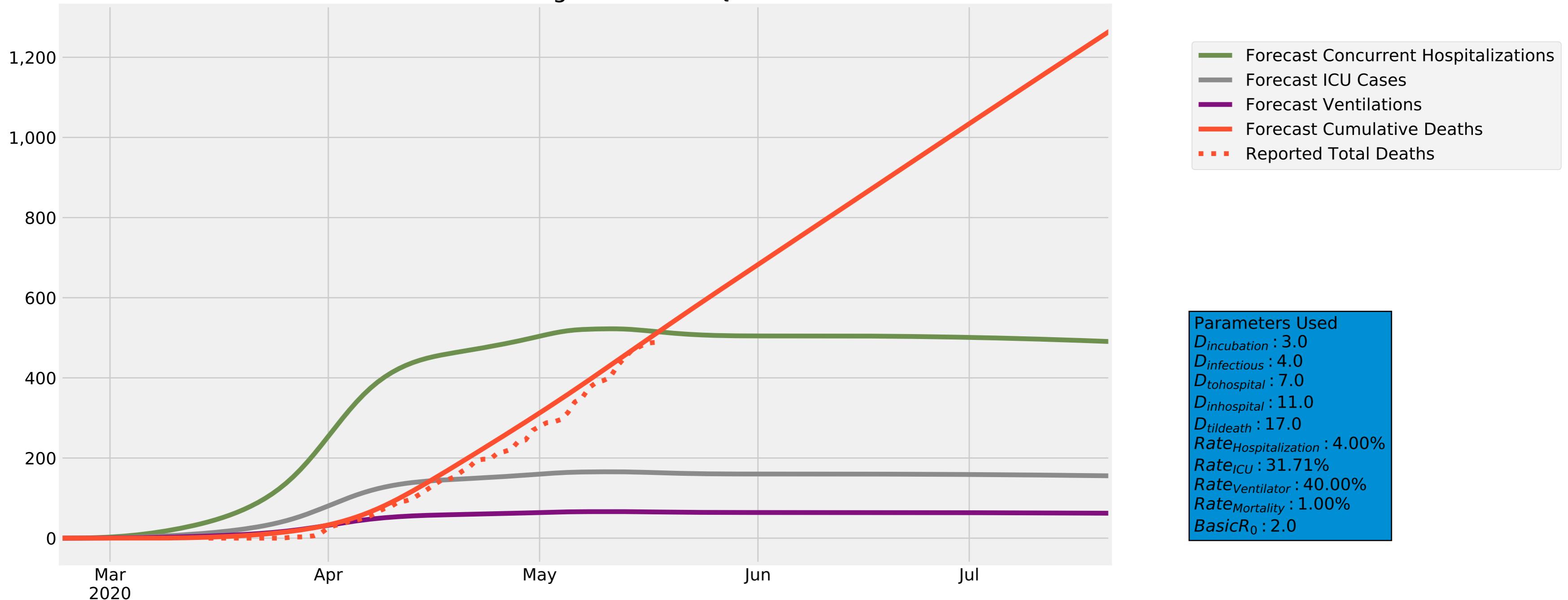
Simultaneous Infections Forecast Alabama: No Change in Future R_t Scenario



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

Hospitalization and Deaths Forecast

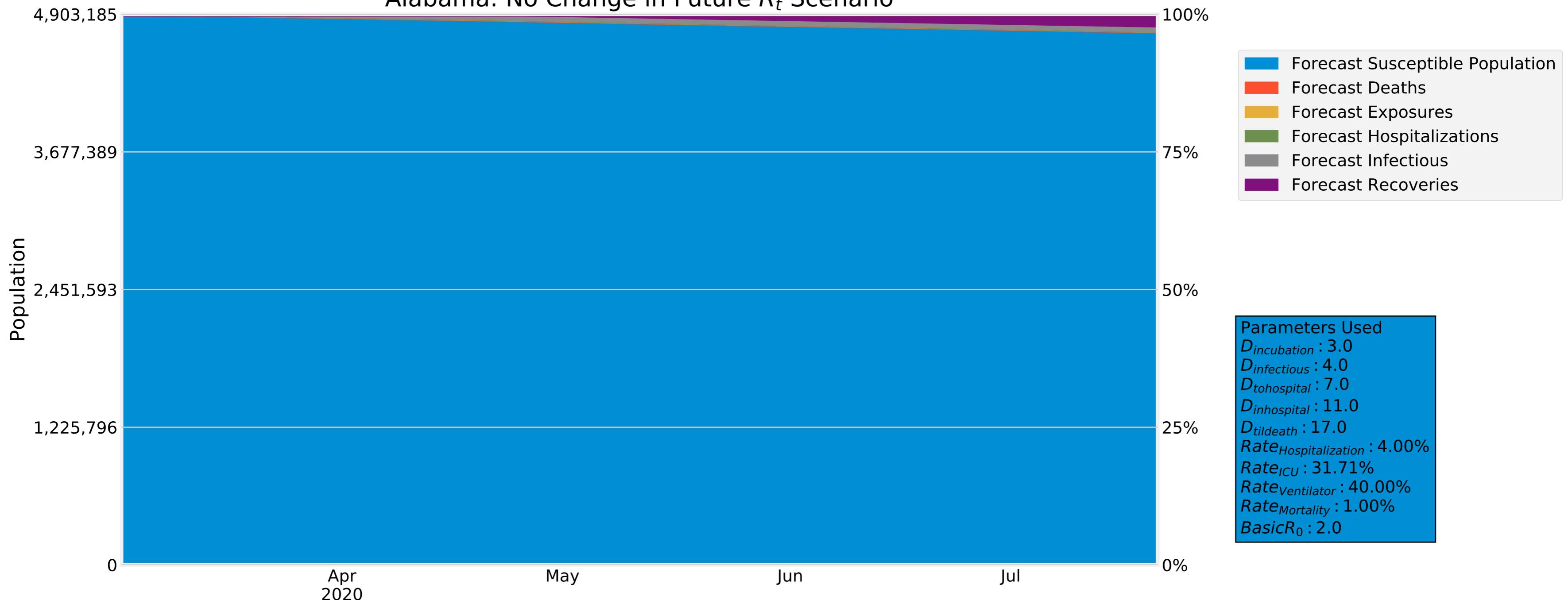
Alabama: No Change in Future R_t Scenario



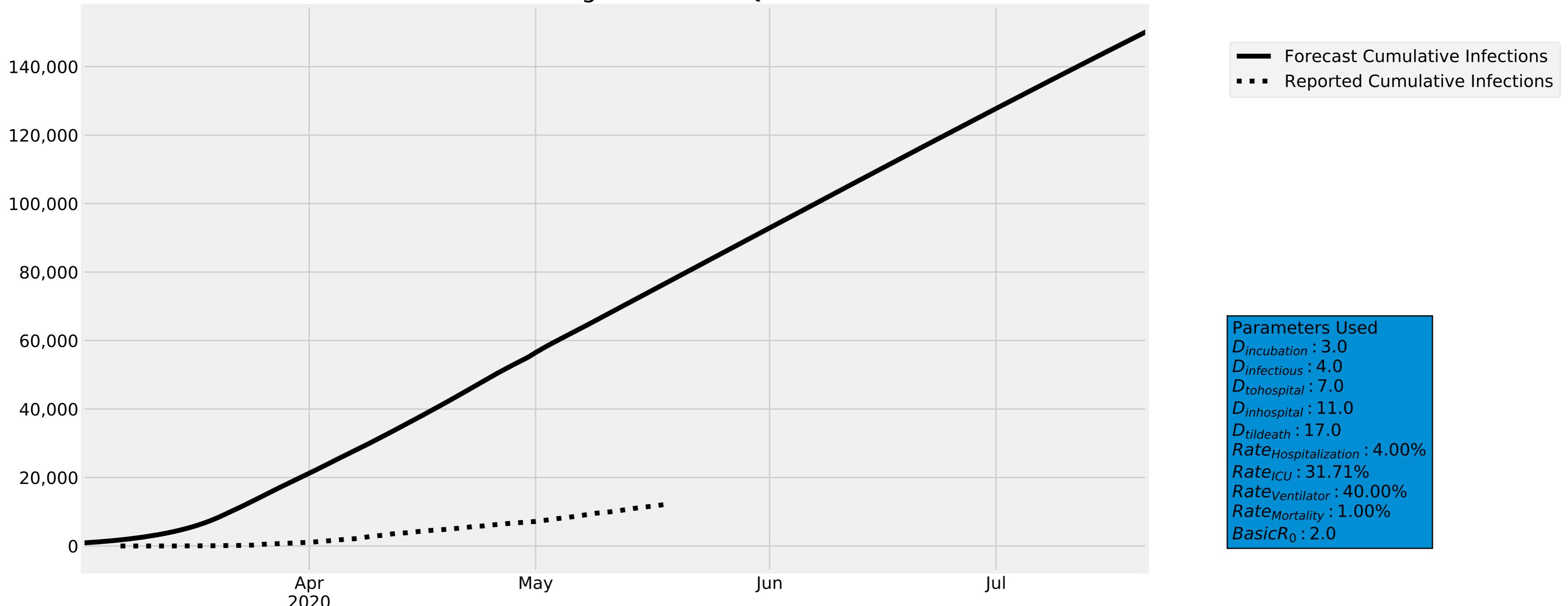
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

Alabama: No Change in Future R_t Scenario



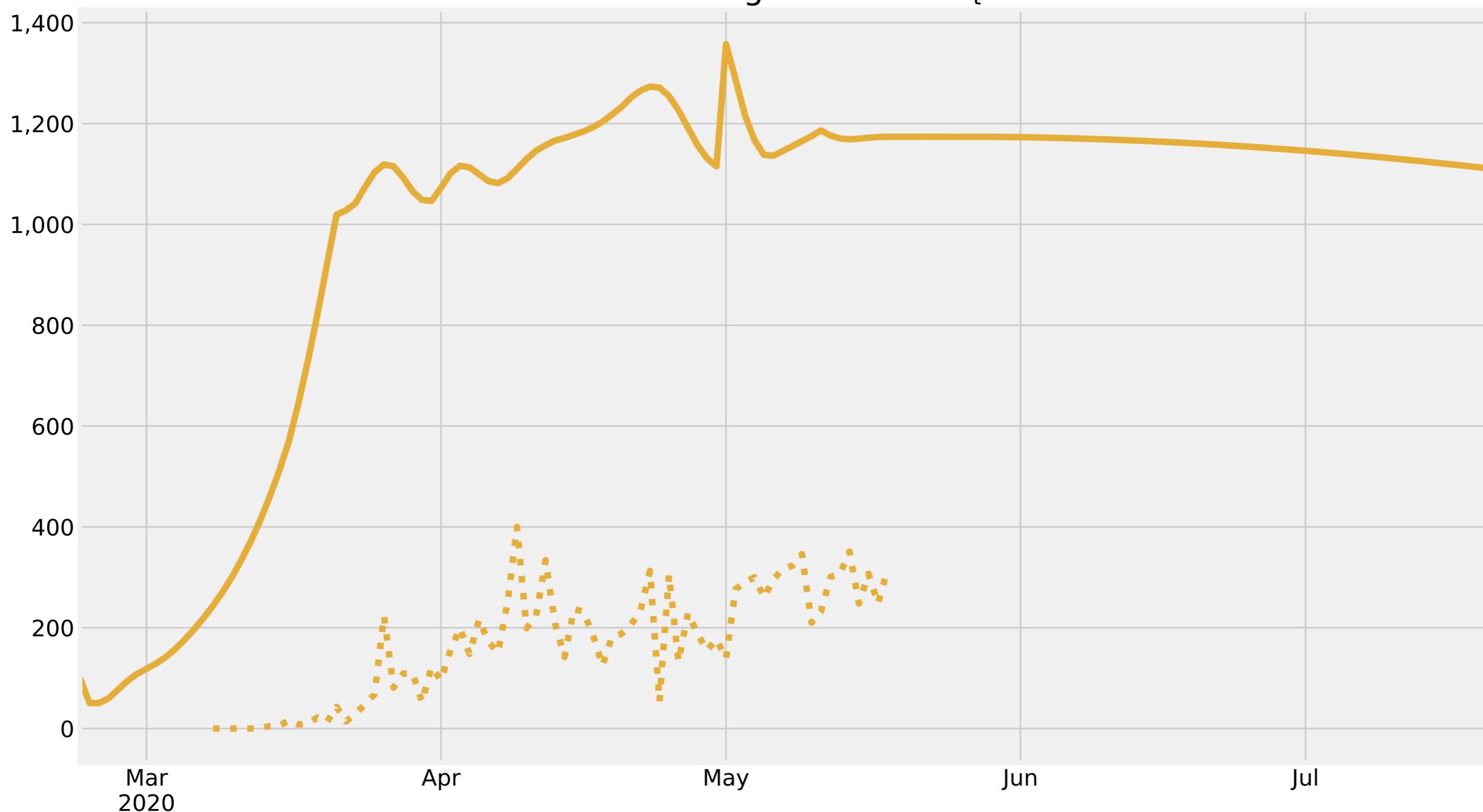
Cumulative Infections Forecast Alabama: No Change in Future R_t Scenario



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

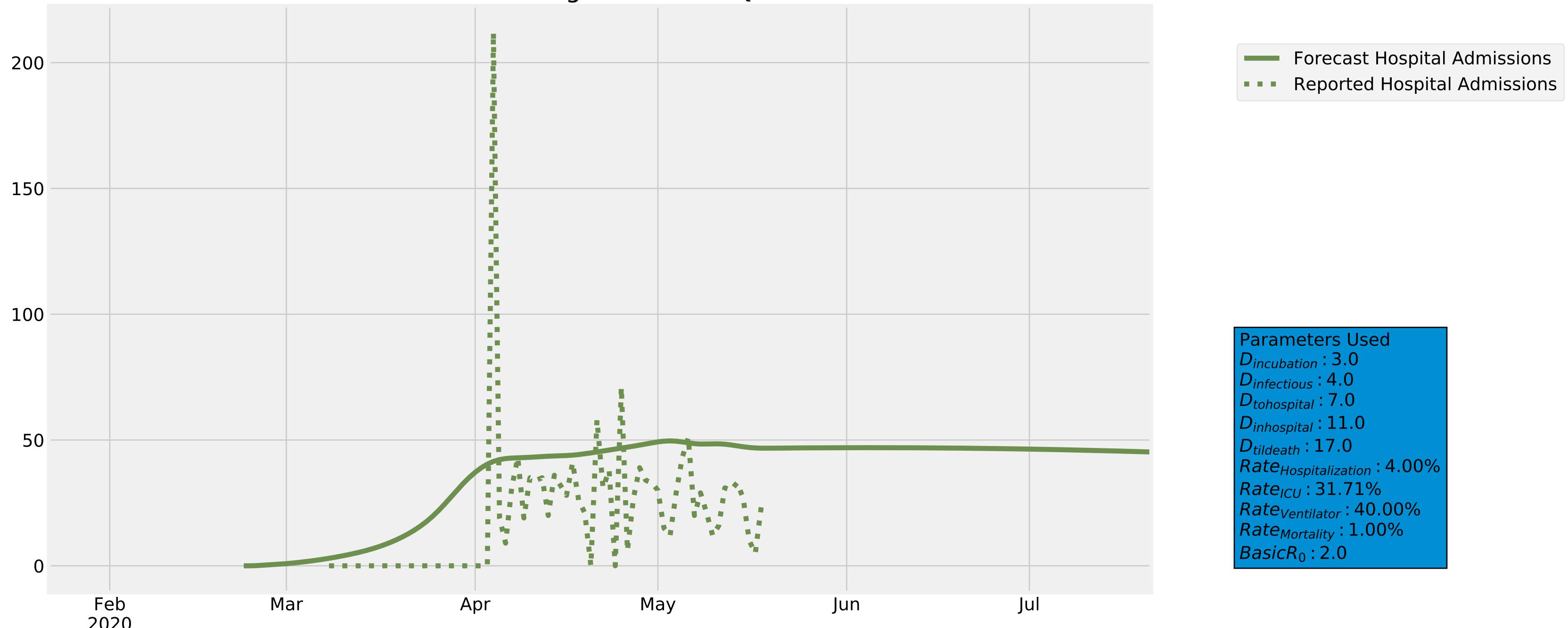
Daily Exposures Forecast Alabama: No Change in Future R_t Scenario



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%
Basic R_0 :	2.0

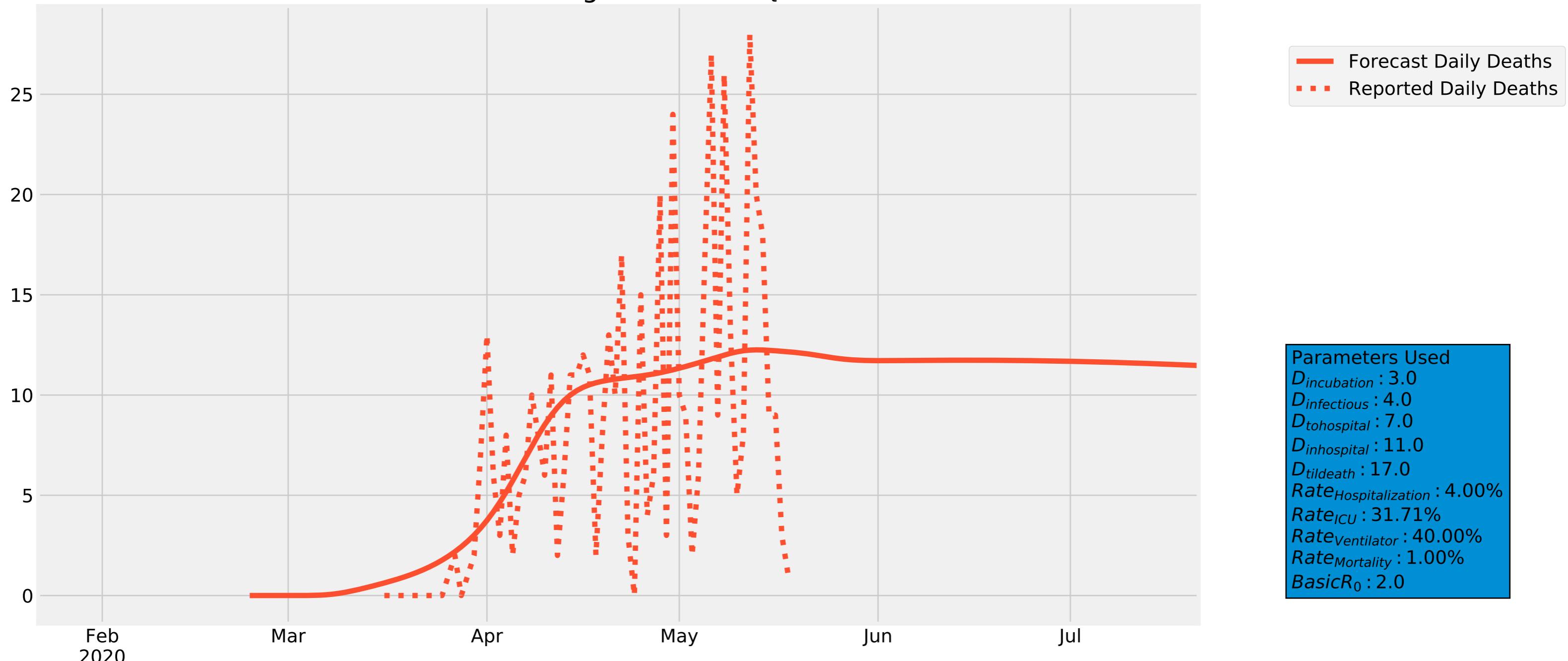
Daily Hospital Admissions Forecast Alabama: No Change in Future R_t Scenario



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

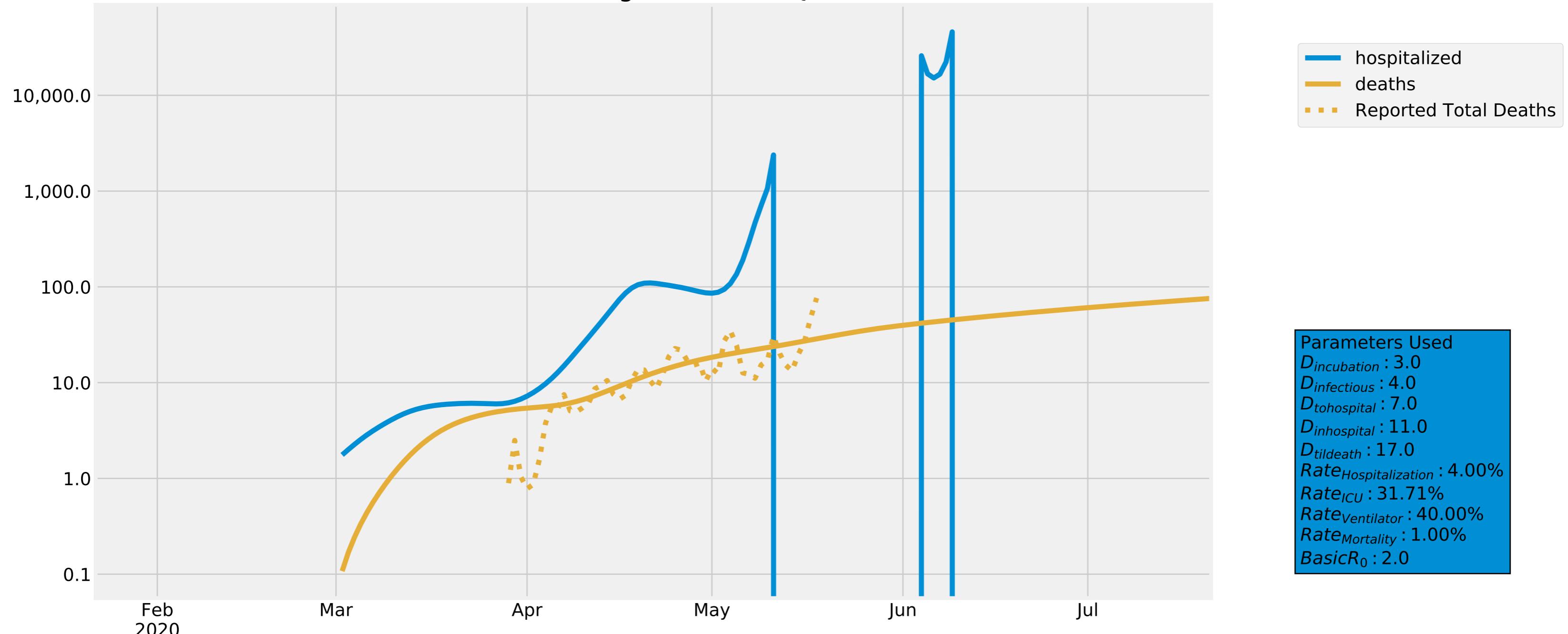
Daily Deaths Forecast

Alabama: No Change in Future R_t Scenario



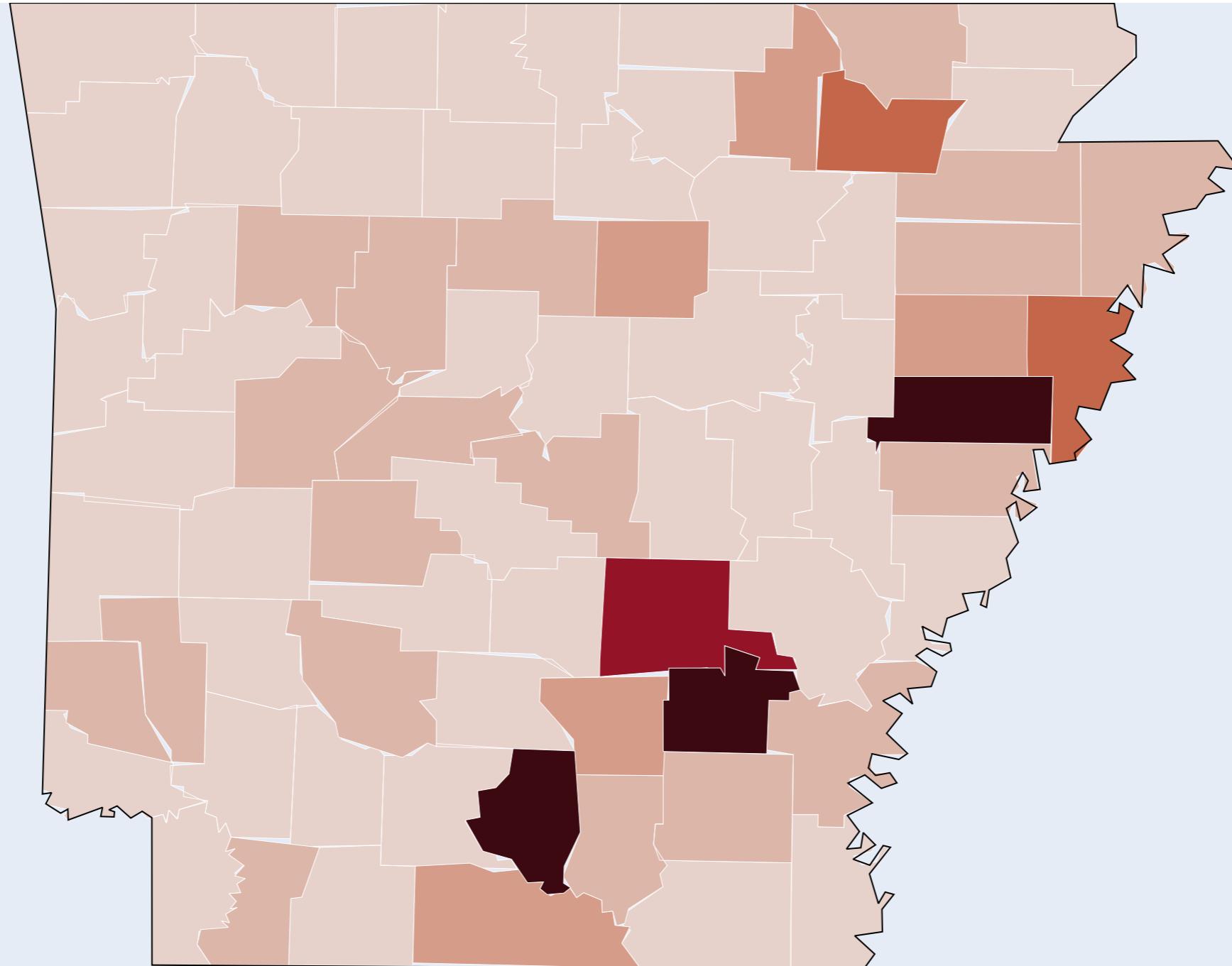
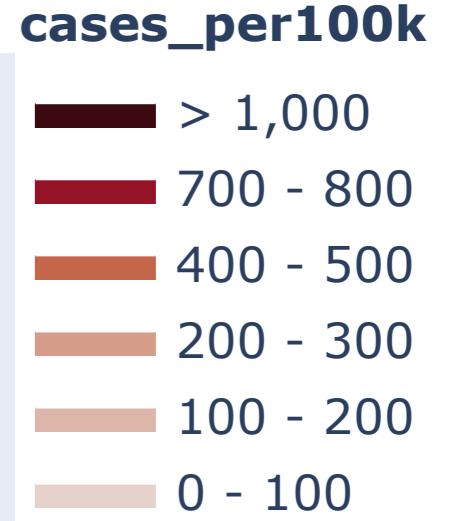
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Alabama: No Change in Future R_t Scenario

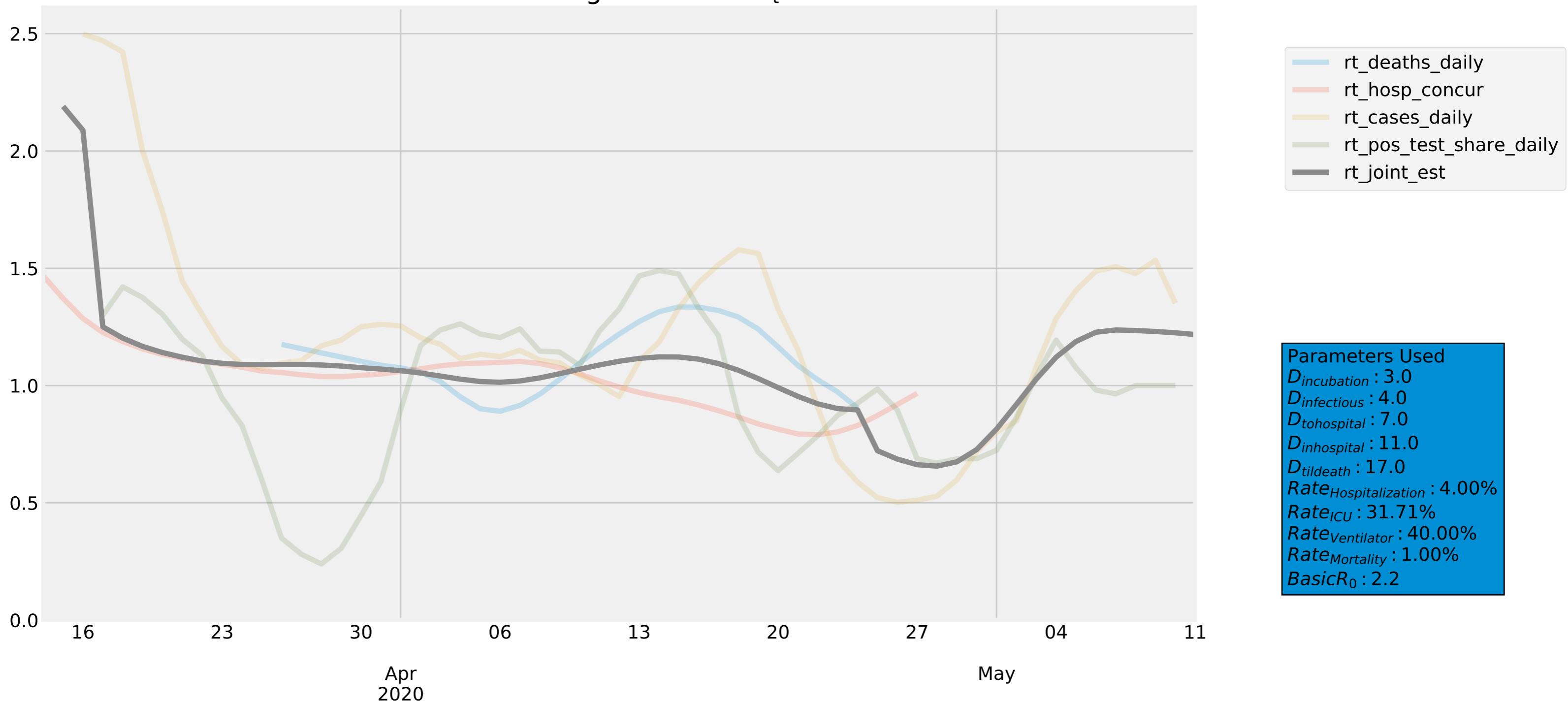


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Arkansas: COVID-19 Cases Per 100k Residents



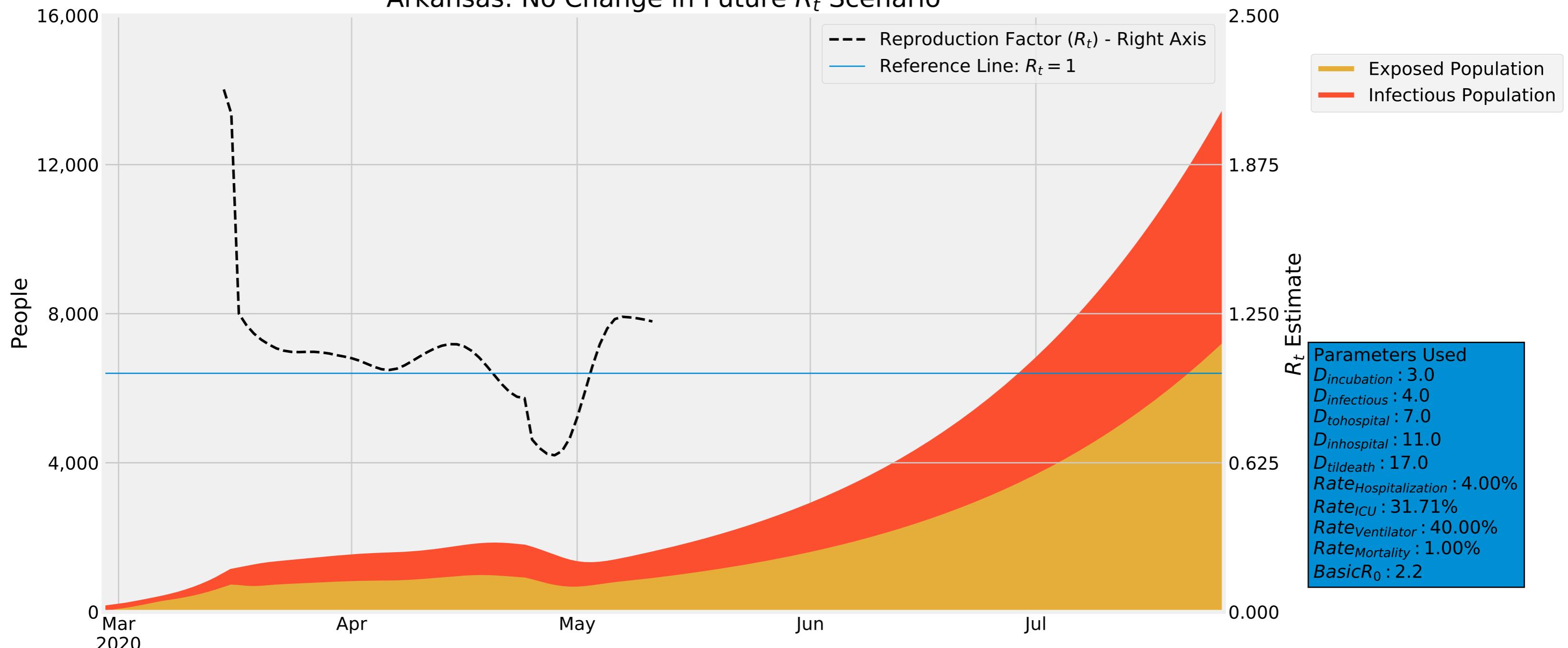
Reproduction Rate (R_t) Estimates Arkansas: No Change in Future R_t Scenario



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

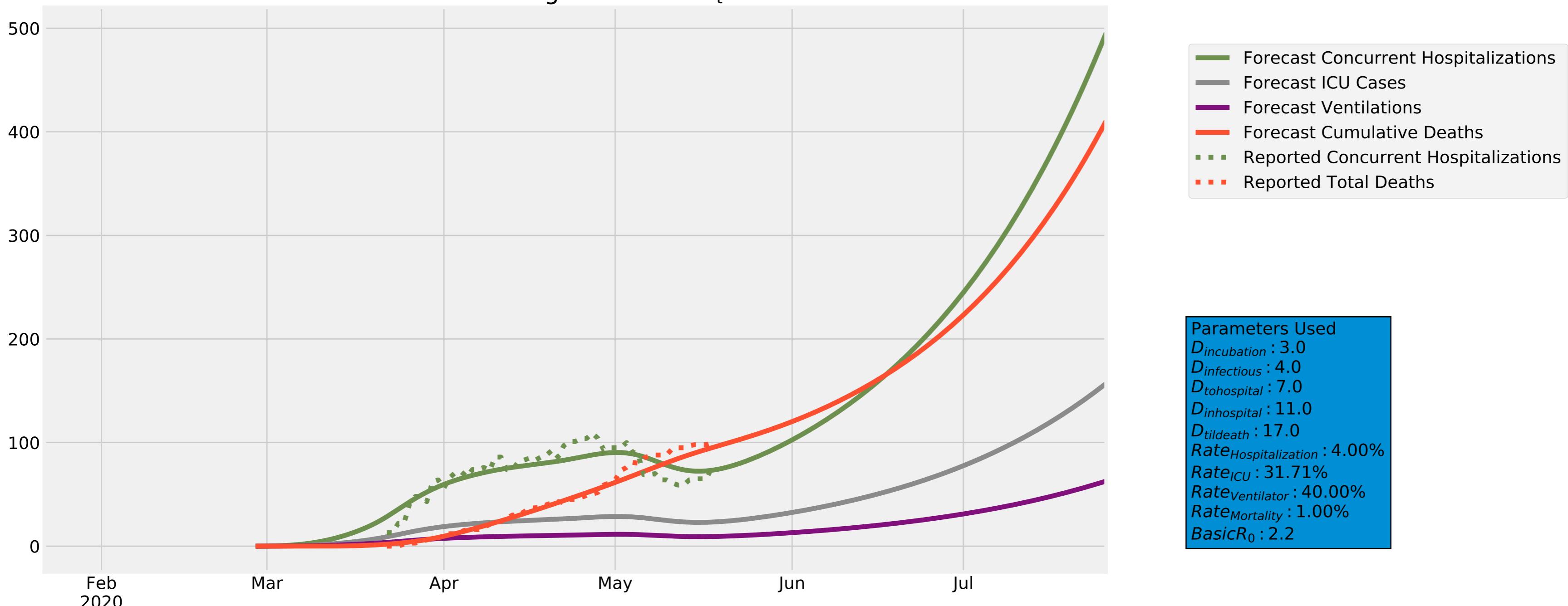
Simultaneous Infections Forecast

Arkansas: No Change in Future R_t Scenario



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

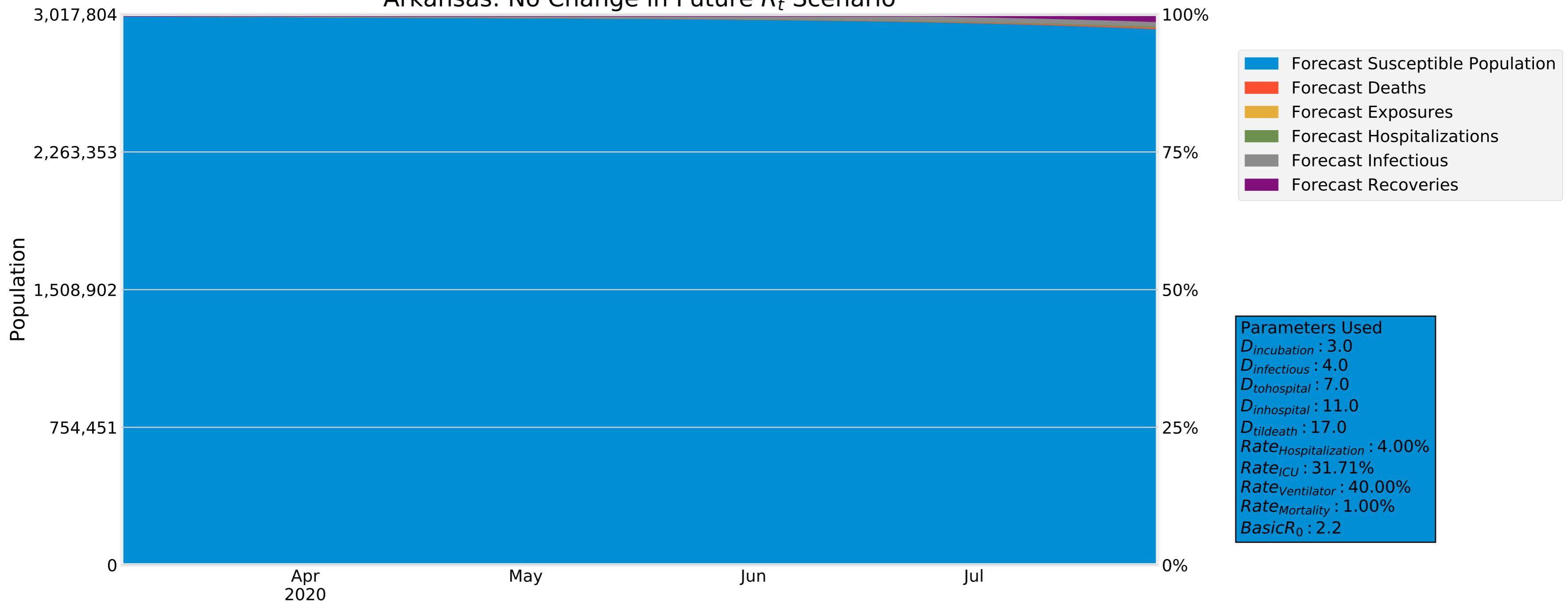
Hospitalization and Deaths Forecast Arkansas: No Change in Future R_t Scenario



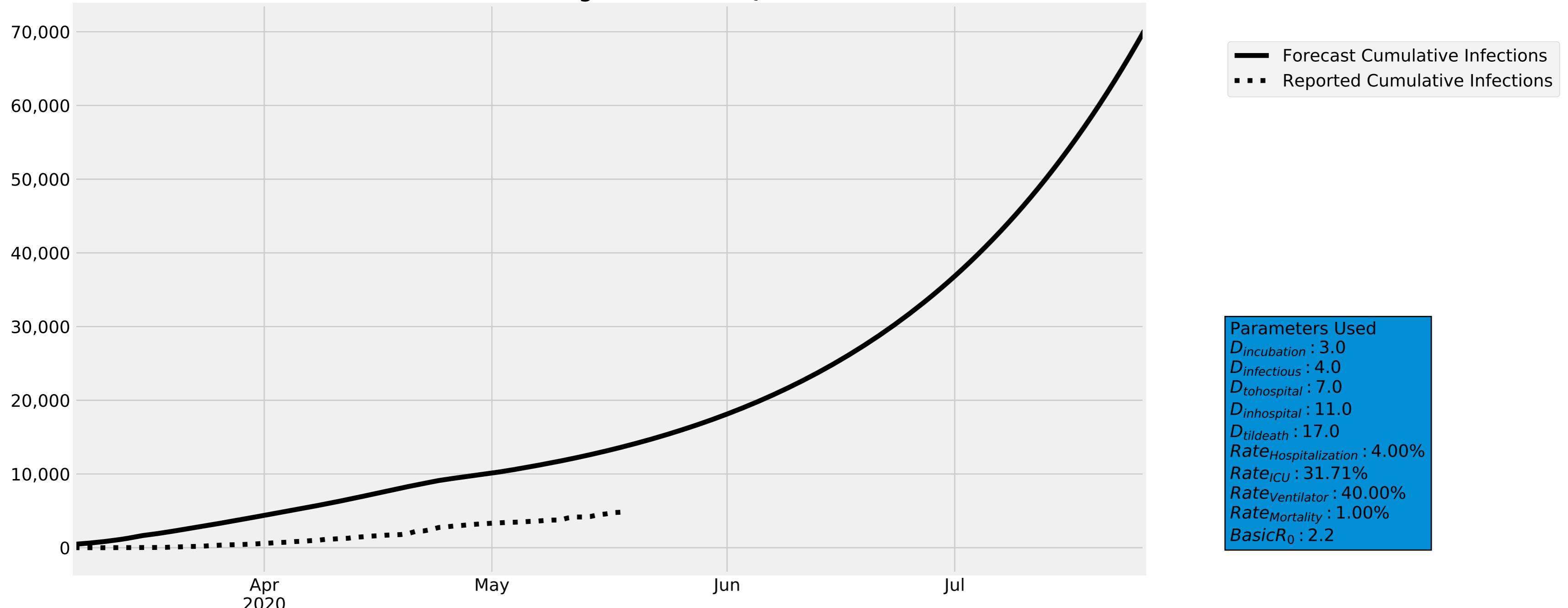
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

Arkansas: No Change in Future R_t Scenario



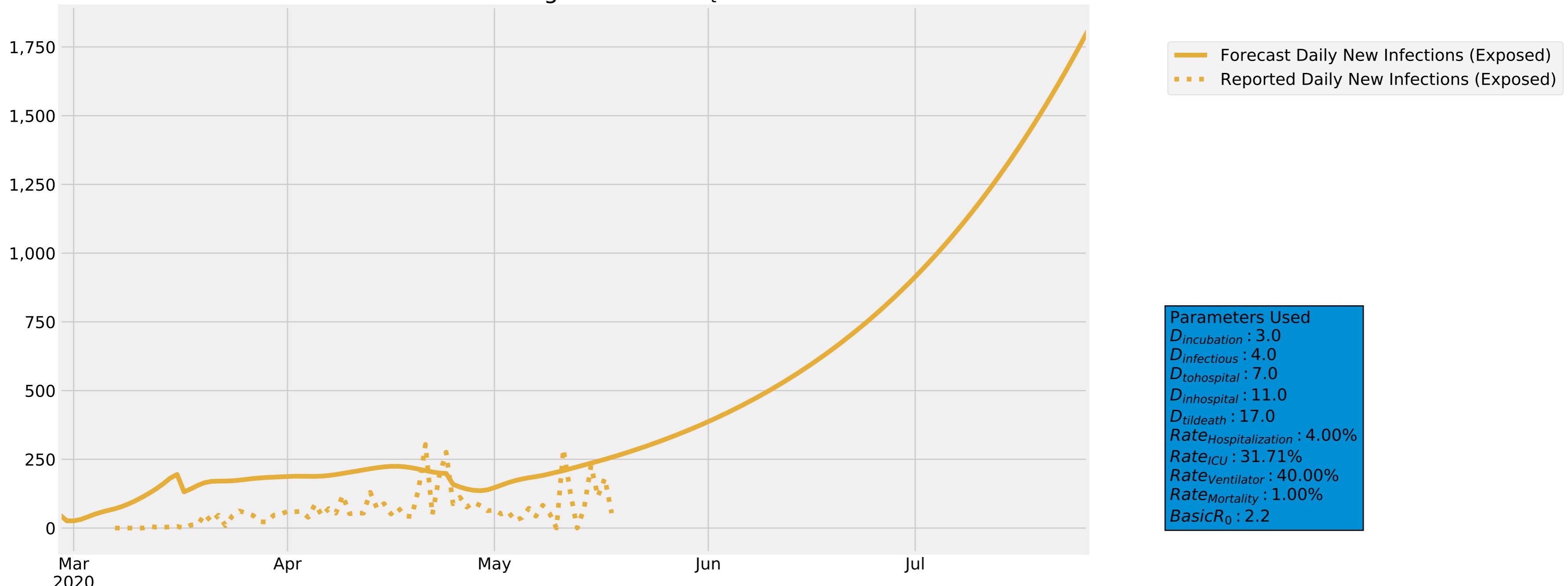
Cumulative Infections Forecast Arkansas: No Change in Future R_t Scenario



Parameters Used

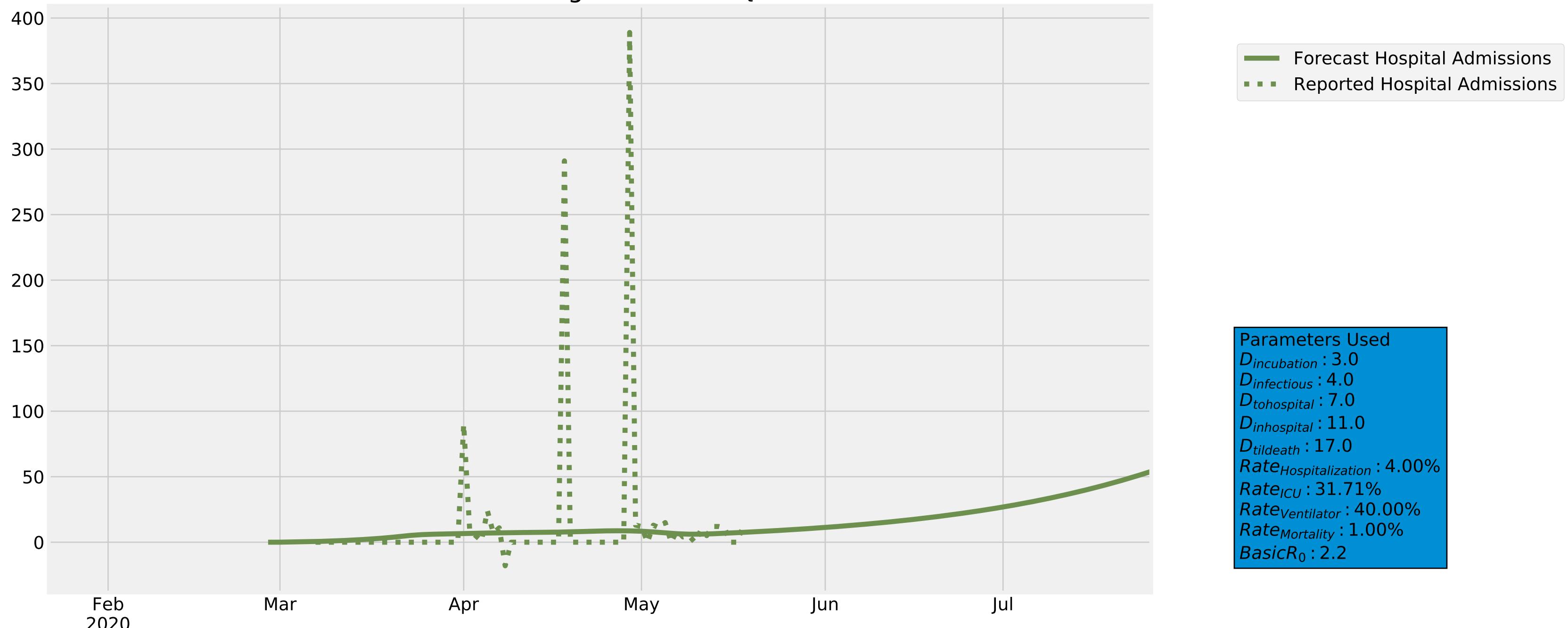
- $D_{incubation}$: 3.0
- $D_{infectious}$: 4.0
- $D_{tohospital}$: 7.0
- $D_{inhospital}$: 11.0
- $D_{tildeath}$: 17.0
- $Rate_{Hospitalization}$: 4.00%
- $Rate_{ICU}$: 31.71%
- $Rate_{Ventilator}$: 40.00%
- $Rate_{Mortality}$: 1.00%
- $BasicR_0$: 2.2

Daily Exposures Forecast Arkansas: No Change in Future R_t Scenario



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

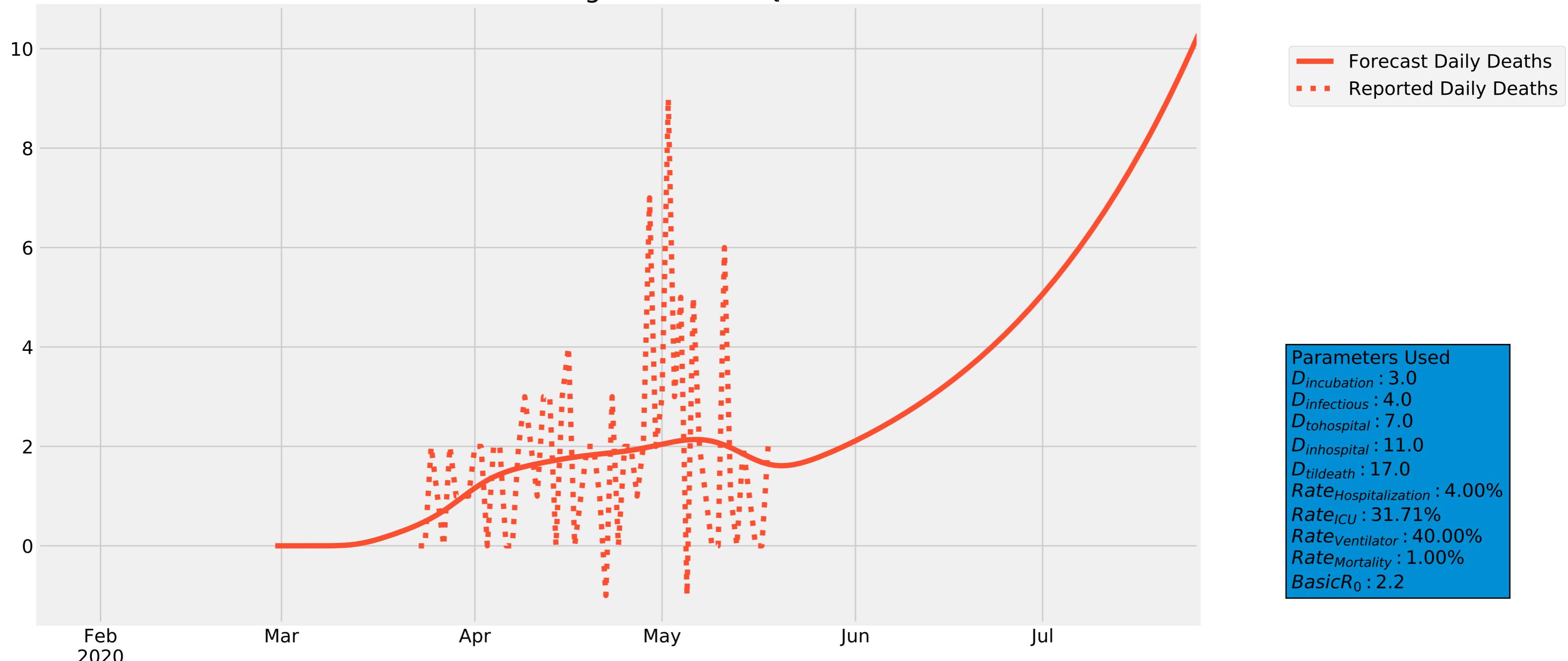
Daily Hospital Admissions Forecast Arkansas: No Change in Future R_t Scenario



Parameters Used

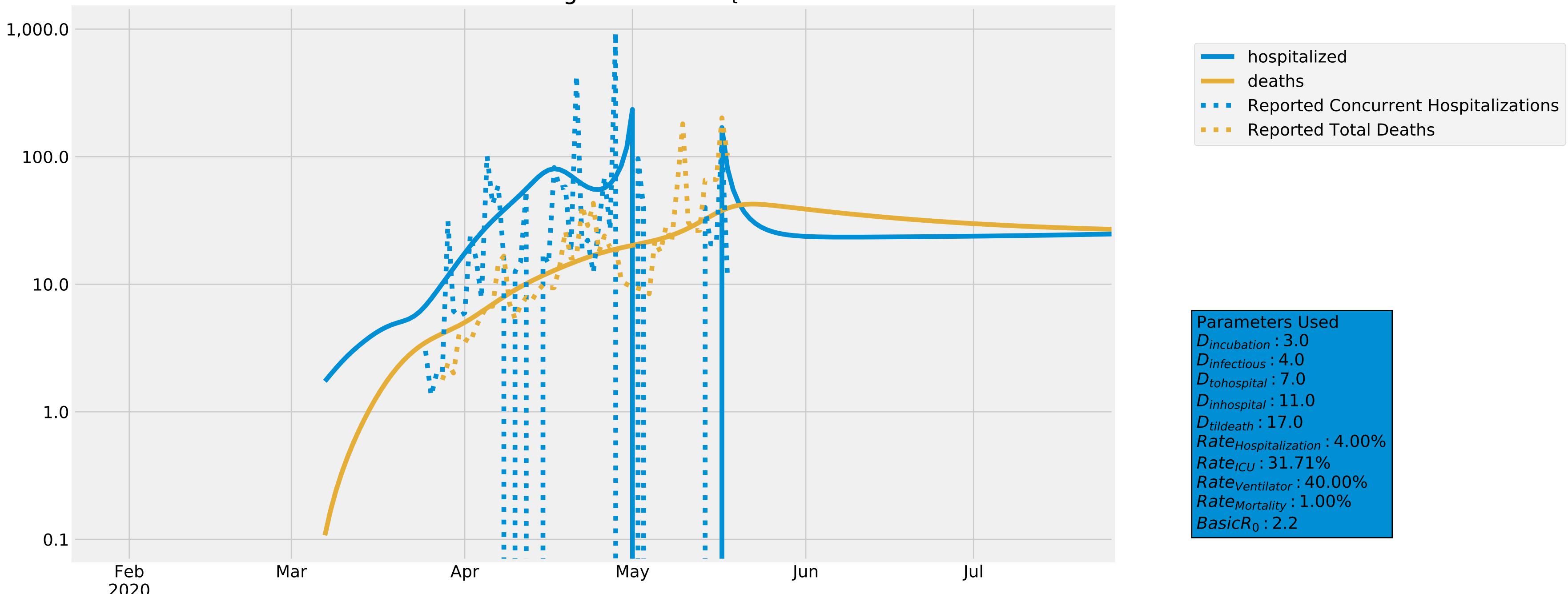
$D_{incubation}$: 3.0
$D_{infectious}$: 4.0
$D_{tohospital}$: 7.0
$D_{inhospital}$: 11.0
$D_{tildeath}$: 17.0
$Rate_{Hospitalization}$: 4.00%
$Rate_{ICU}$: 31.71%
$Rate_{Ventilator}$: 40.00%
$Rate_{Mortality}$: 1.00%
$BasicR_0$: 2.2

Daily Deaths Forecast Arkansas: No Change in Future R_t Scenario



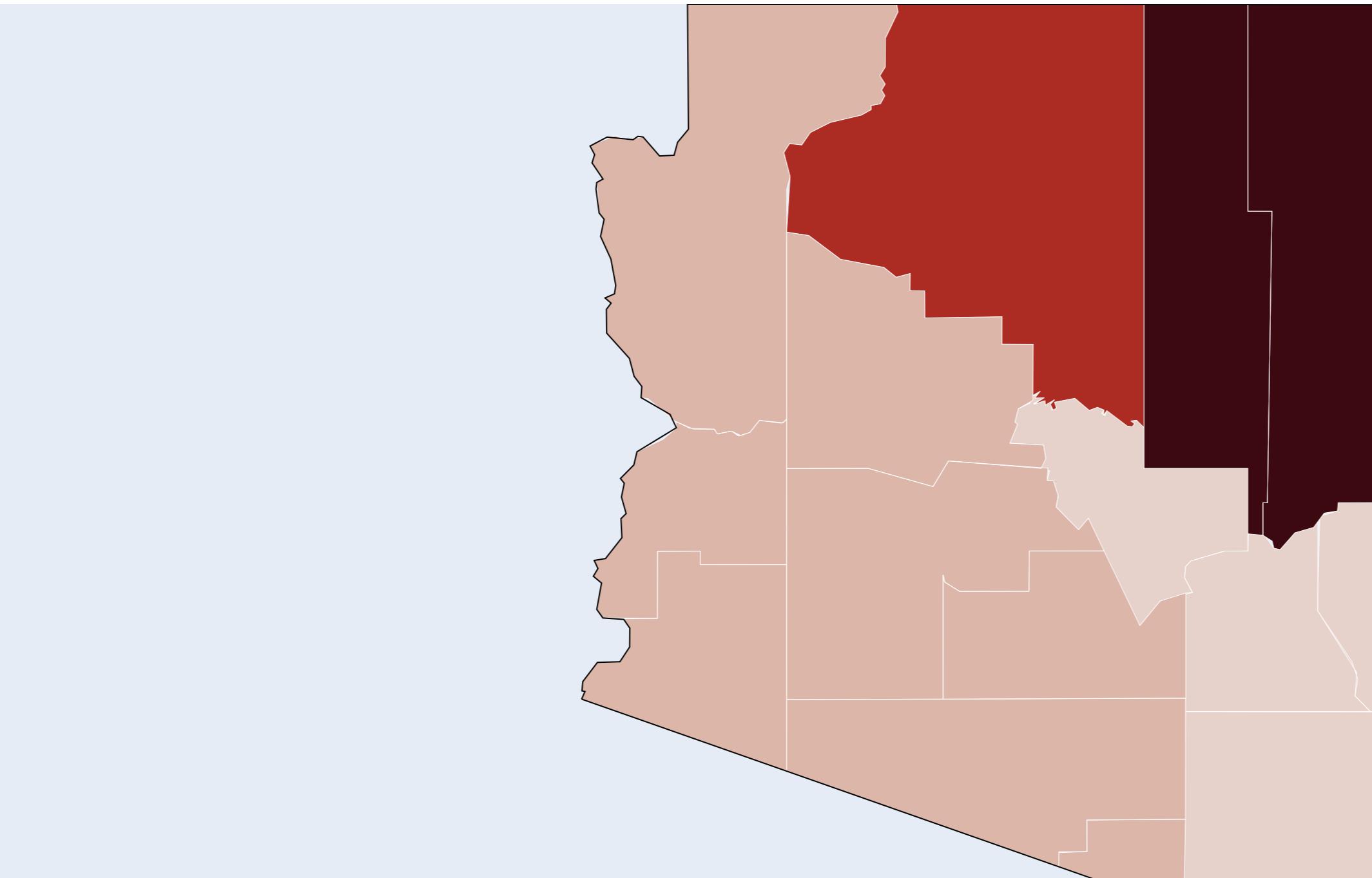
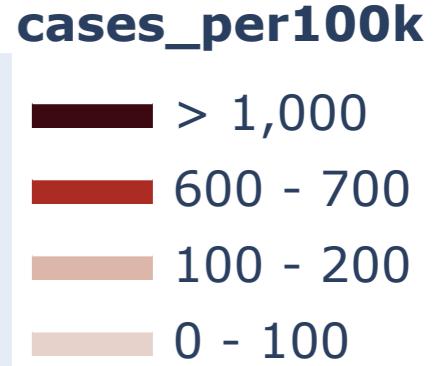
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Arkansas: No Change in Future R_t Scenario



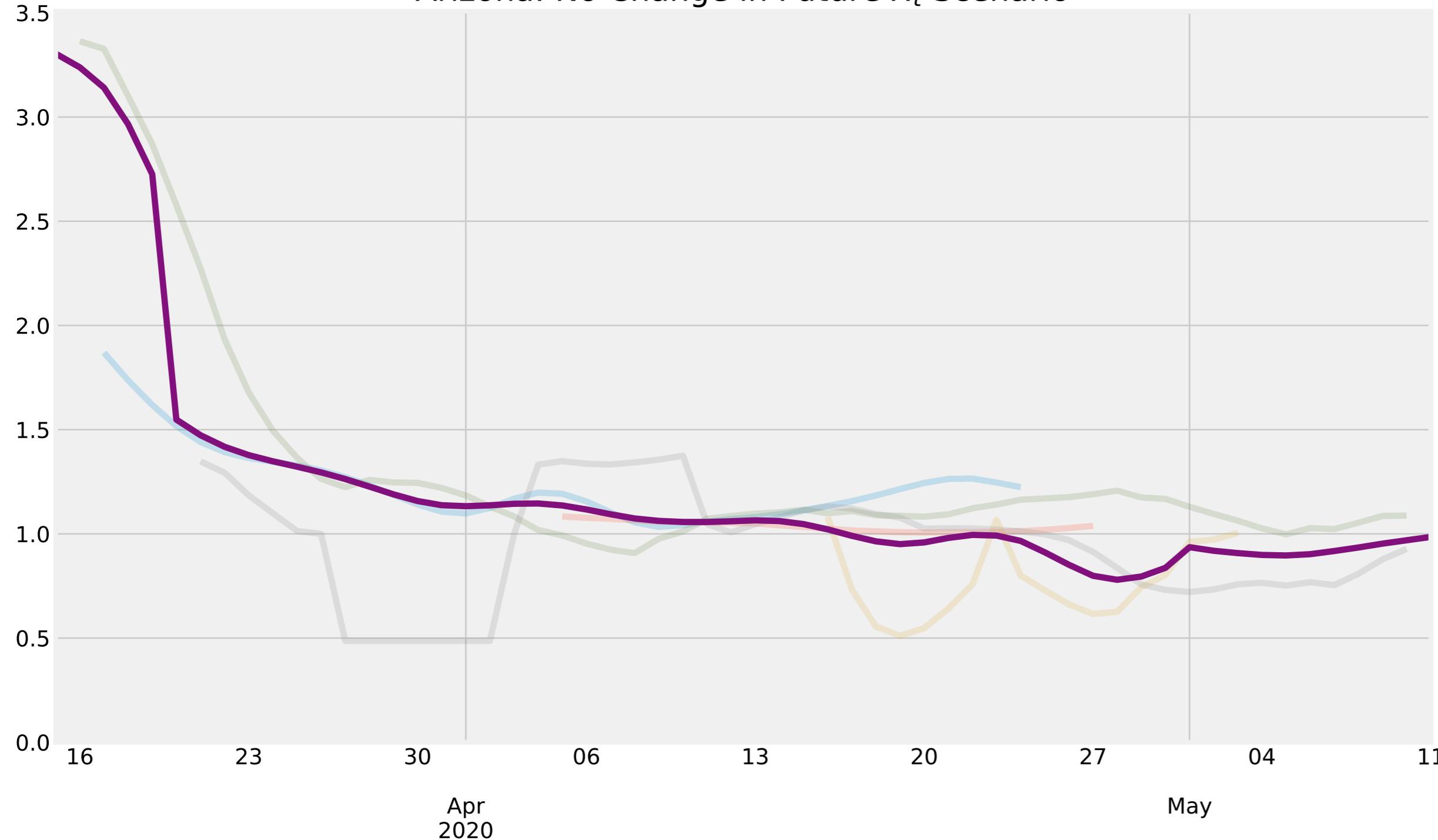
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Arizona: COVID-19 Cases Per 100k Residents



Reproduction Rate (R_t) Estimates

Arizona: No Change in Future R_t Scenario

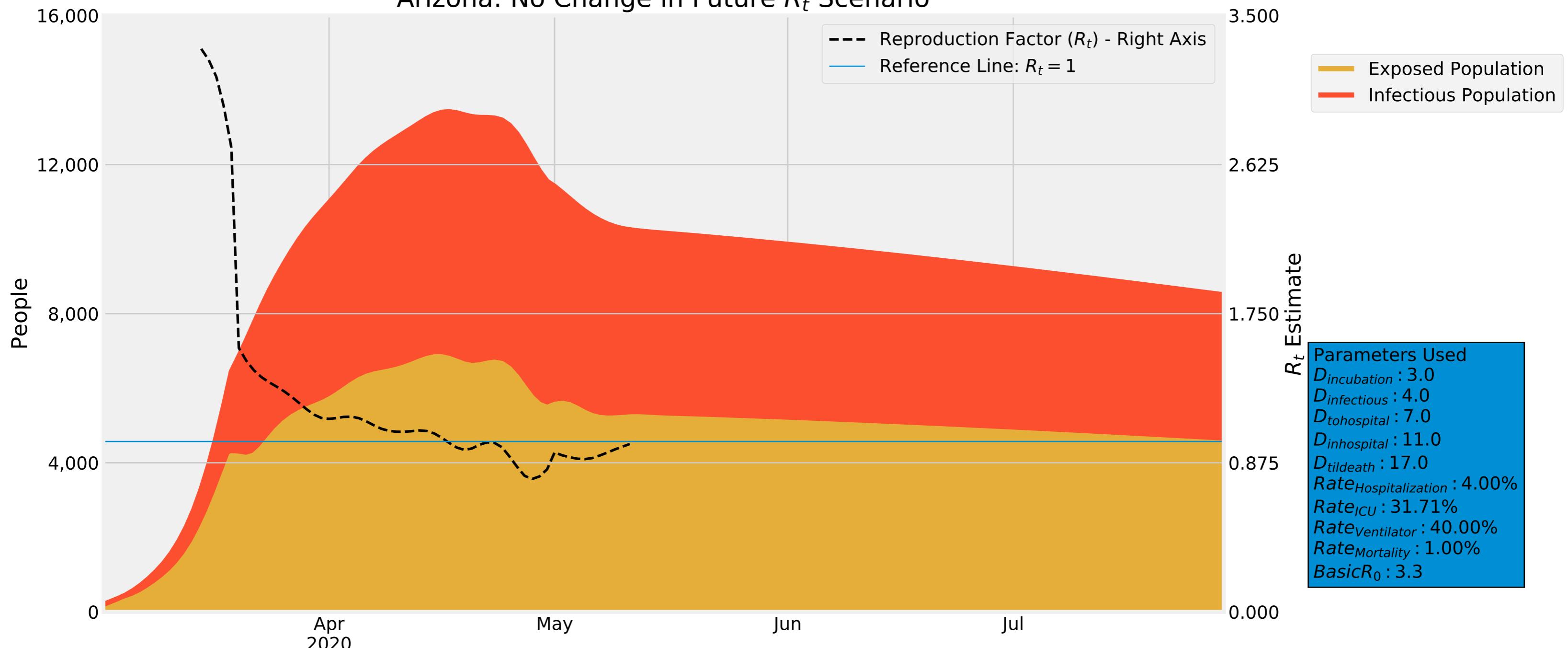


Parameters Used

$D_{incubation}$:	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%
$BasicR_0$:	3.3

Simultaneous Infections Forecast

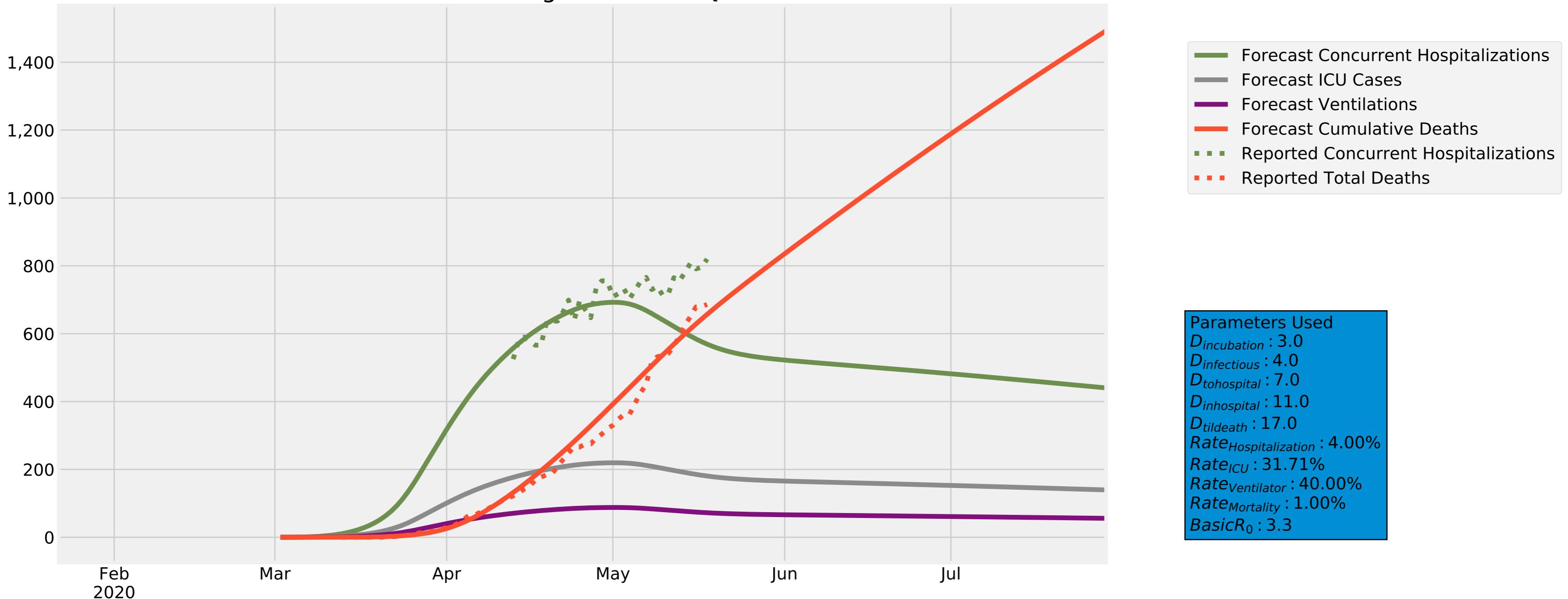
Arizona: No Change in Future R_t Scenario



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

Hospitalization and Deaths Forecast

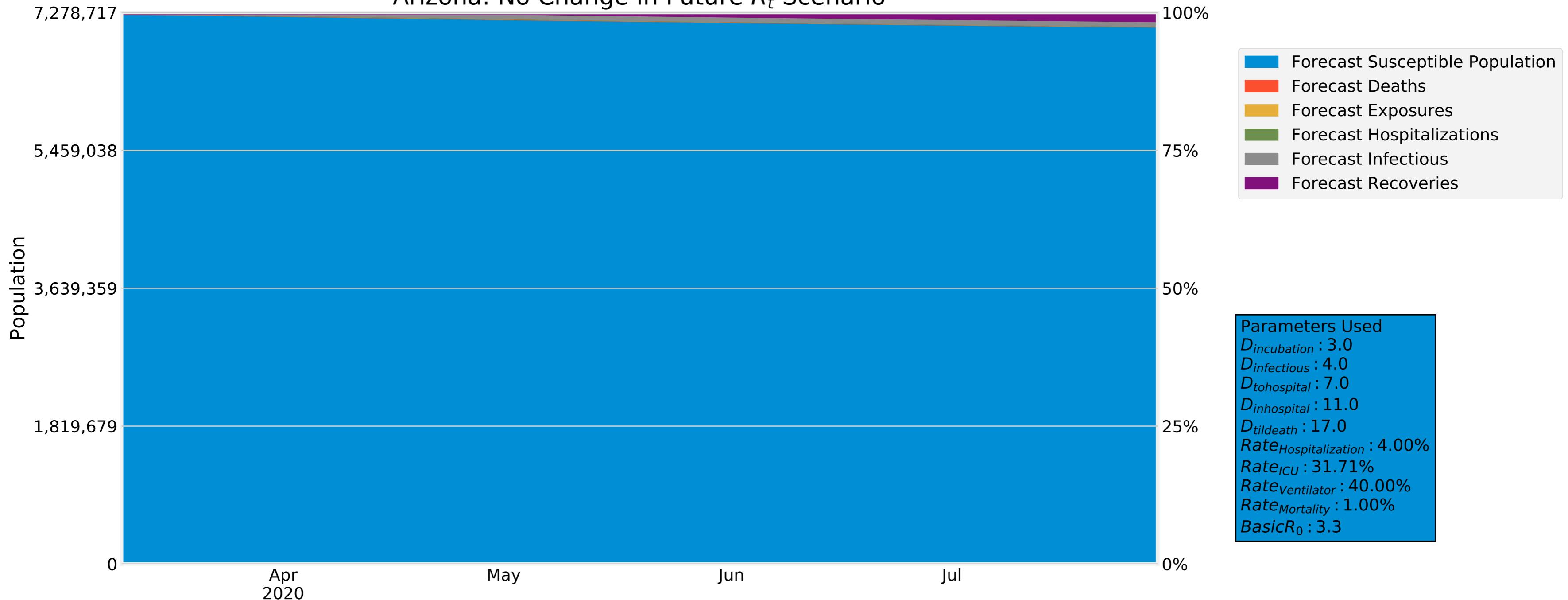
Arizona: No Change in Future R_t Scenario



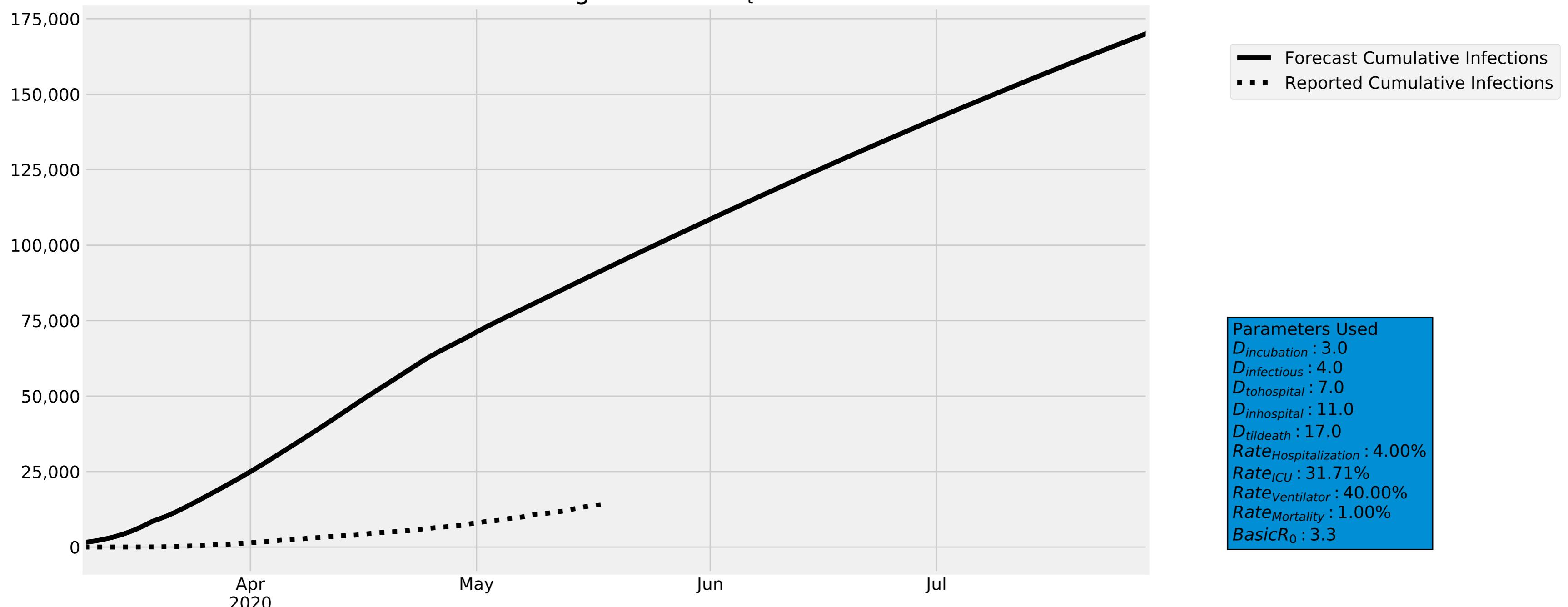
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

Arizona: No Change in Future R_t Scenario

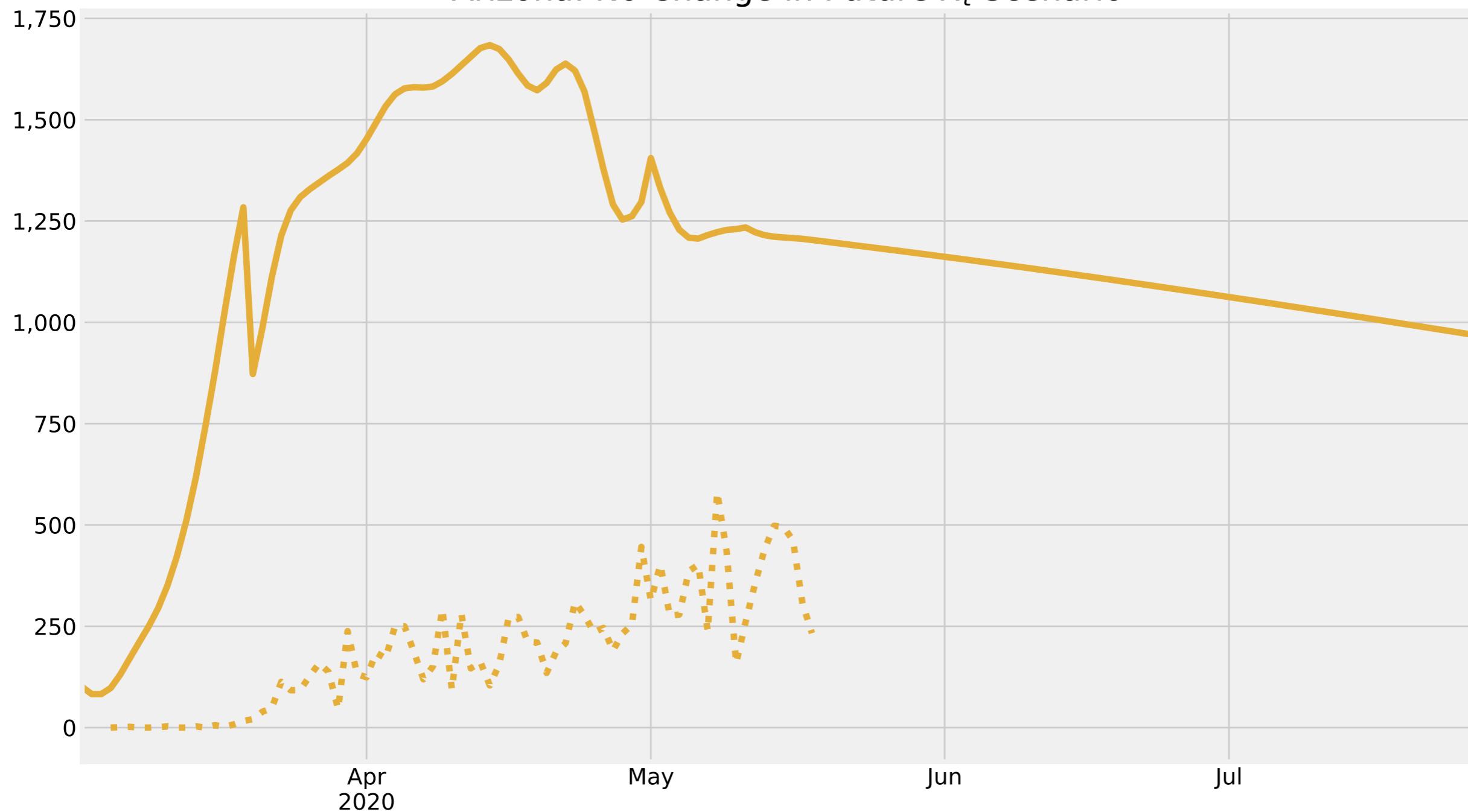


Cumulative Infections Forecast Arizona: No Change in Future R_t Scenario



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

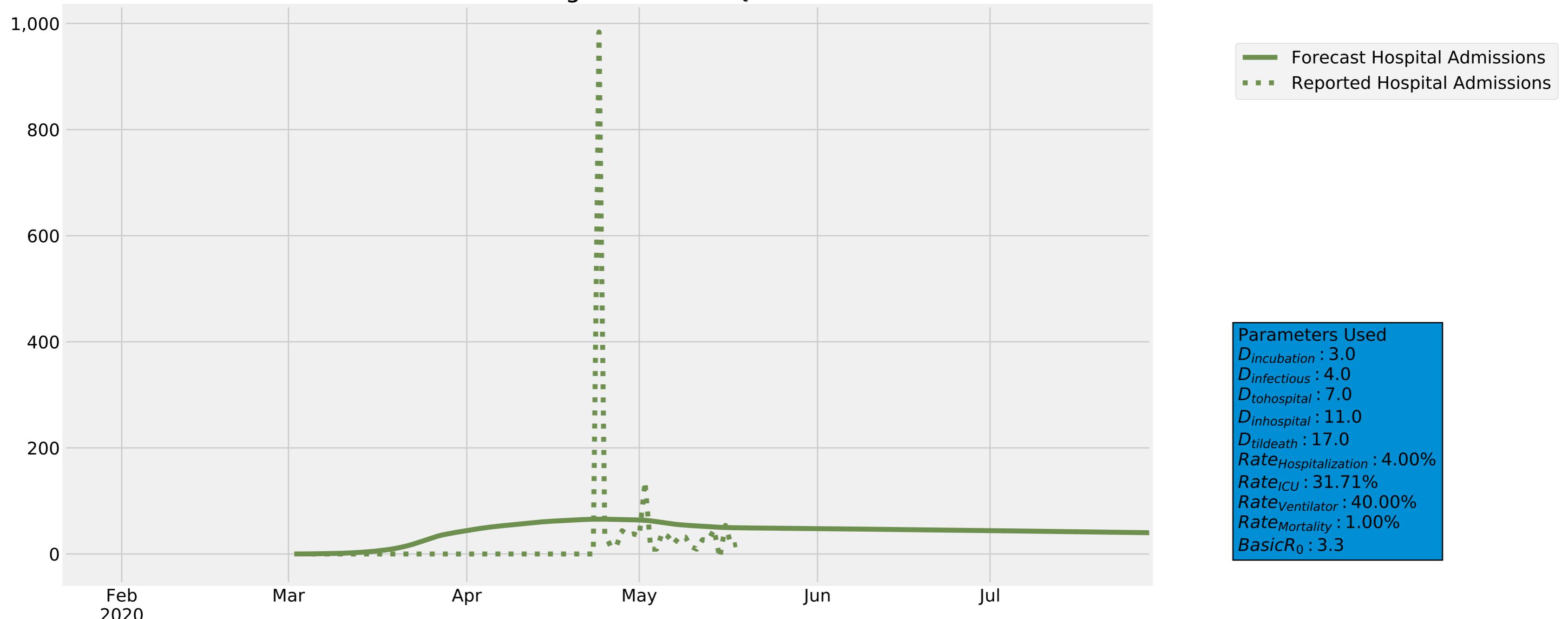
Daily Exposures Forecast Arizona: No Change in Future R_t Scenario



Parameters Used

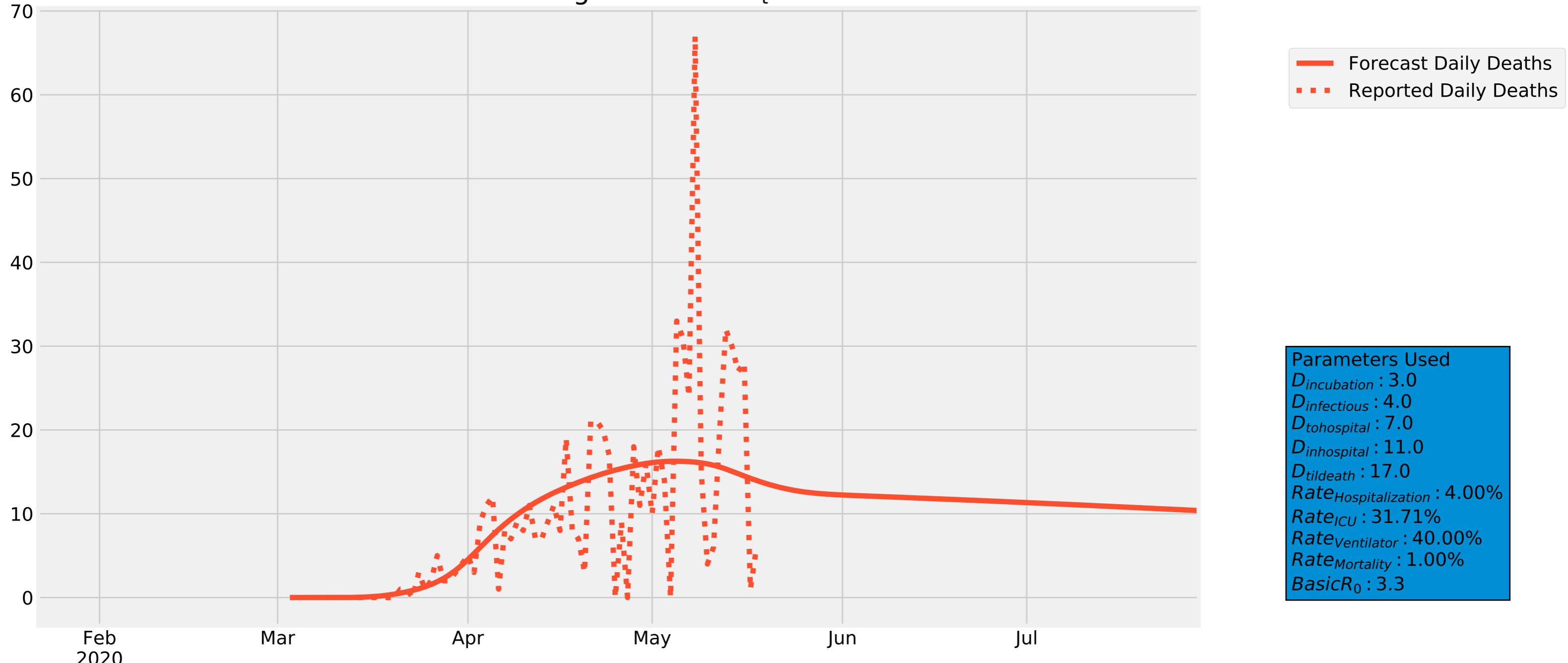
$D_{incubation}$:	3.0
$D_{infectious}$:	4.0
$D_{tohospital}$:	7.0
$D_{inhospital}$:	11.0
$D_{tildeath}$:	17.0
Rate _{Hospitalization} :	4.00%
Rate _{ICU} :	31.71%
Rate _{Ventilator} :	40.00%
Rate _{Mortality} :	1.00%
Basic R_0 :	3.3

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



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

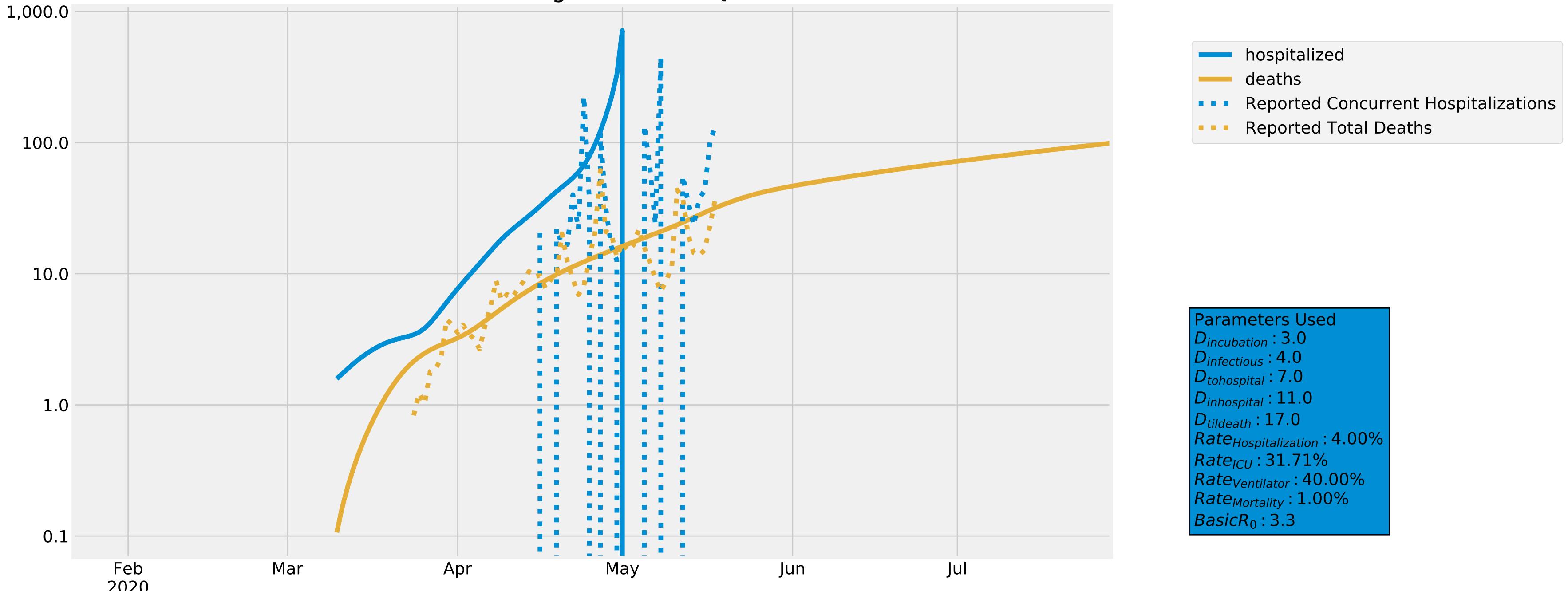
Daily Deaths Forecast Arizona: No Change in Future R_t Scenario



Parameters Used

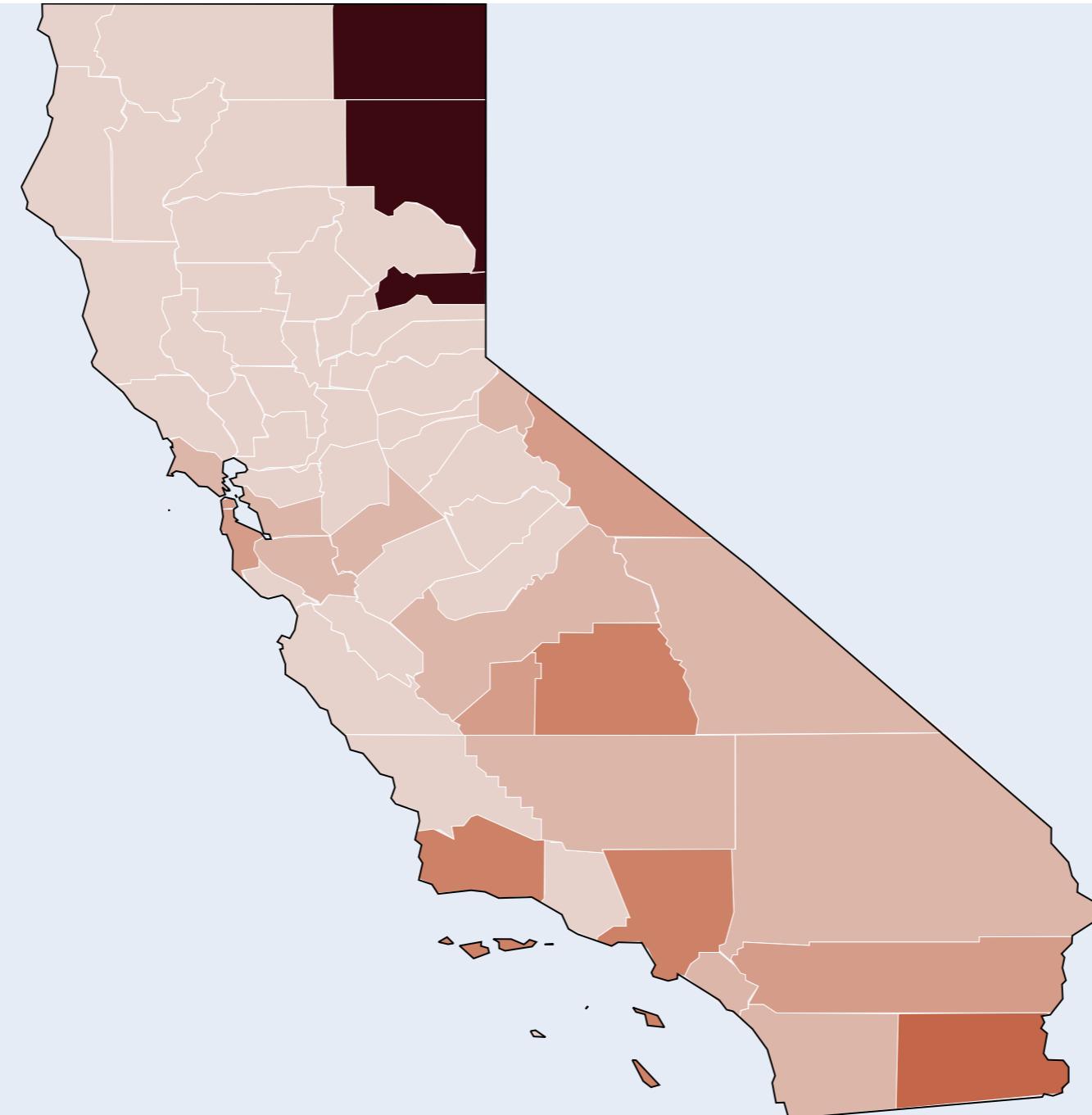
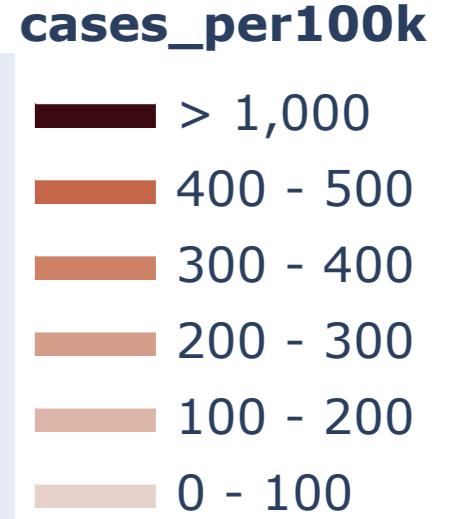
- $D_{incubation}$: 3.0
- $D_{infectious}$: 4.0
- $D_{tohospital}$: 7.0
- $D_{inhospital}$: 11.0
- $D_{tildeath}$: 17.0
- Rate_{Hospitalization} : 4.00%
- Rate_{ICU} : 31.71%
- Rate_{Ventilator} : 40.00%
- Rate_{Mortality} : 1.00%
- Basic R_0 : 3.3

Doubling Rate Forecast Arizona: No Change in Future R_t Scenario

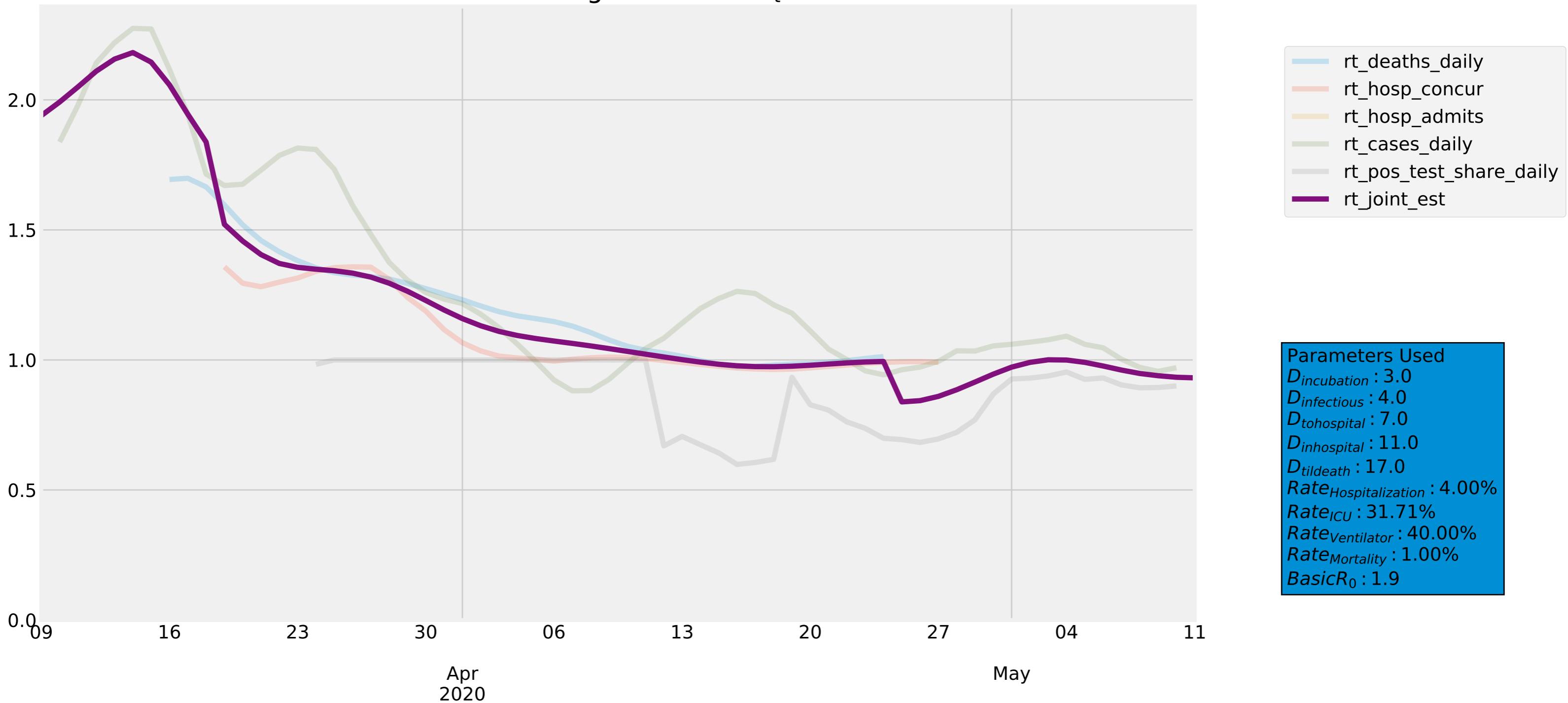


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

California: COVID-19 Cases Per 100k Residents



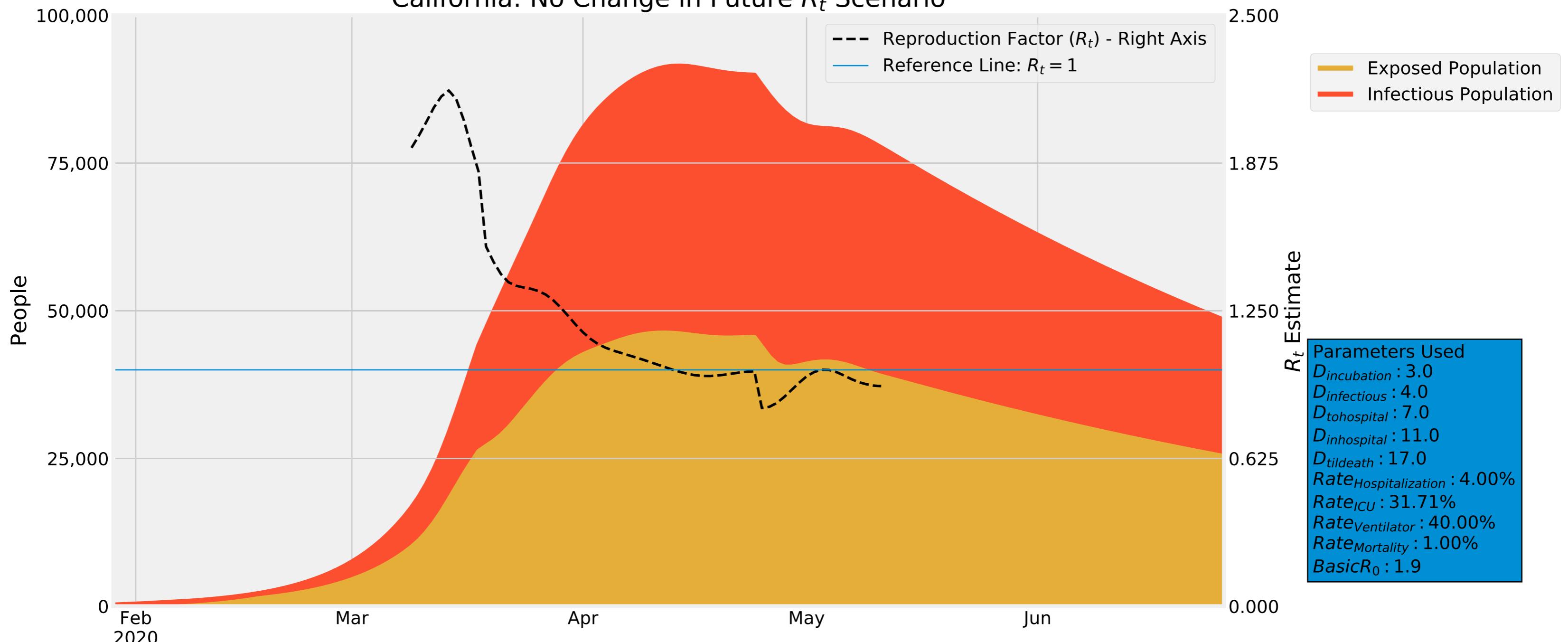
Reproduction Rate (R_t) Estimates California: No Change in Future R_t Scenario



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

Simultaneous Infections Forecast

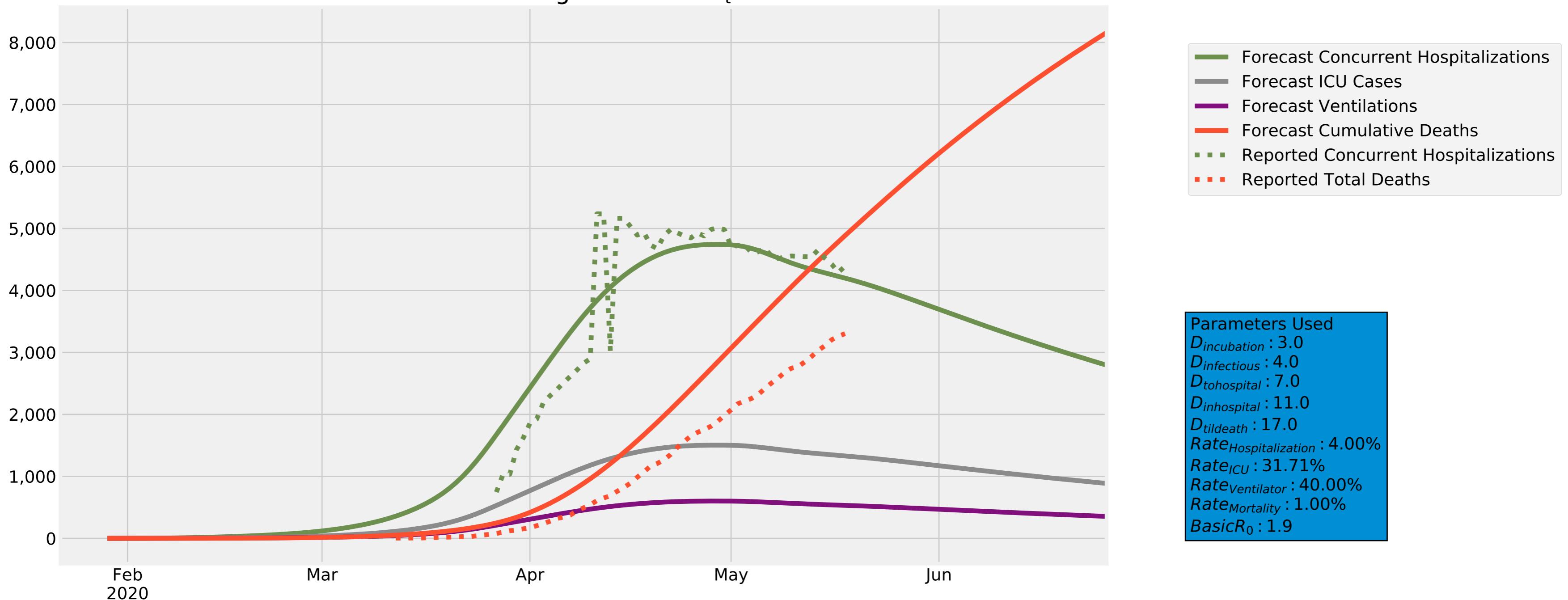
California: No Change in Future R_t Scenario



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

Hospitalization and Deaths Forecast

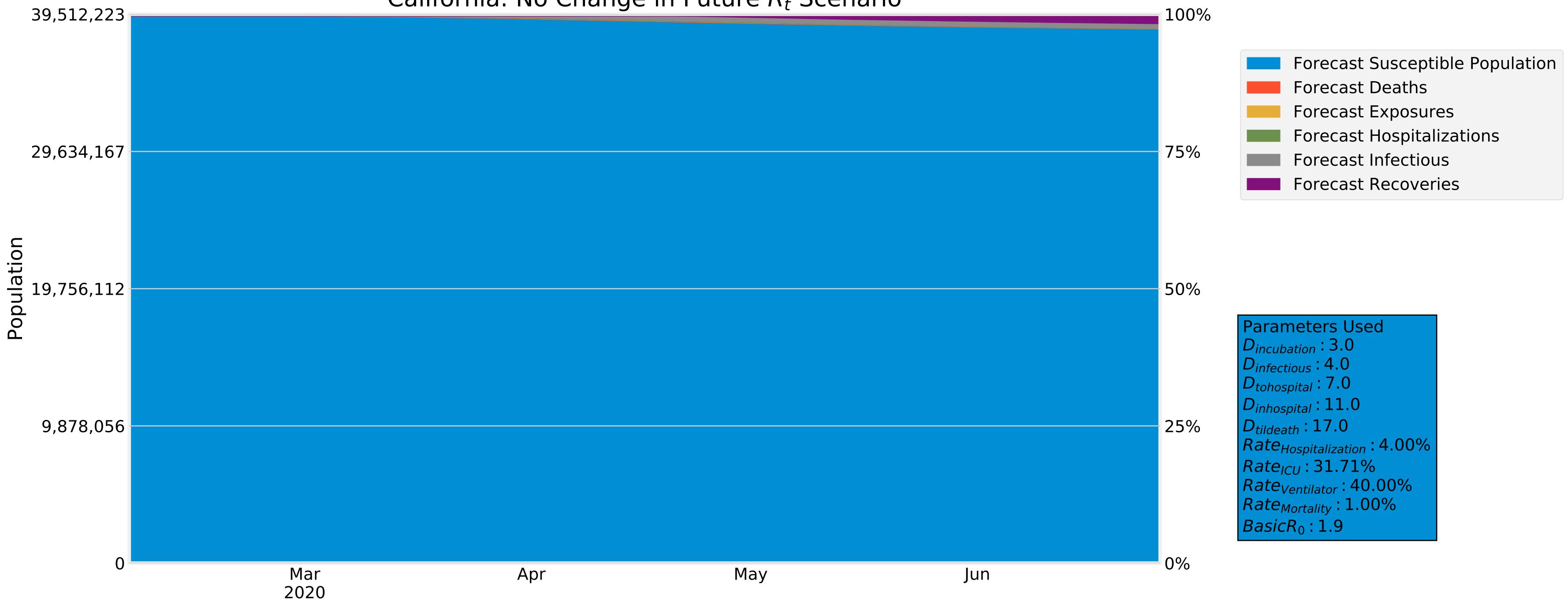
California: No Change in Future R_t Scenario



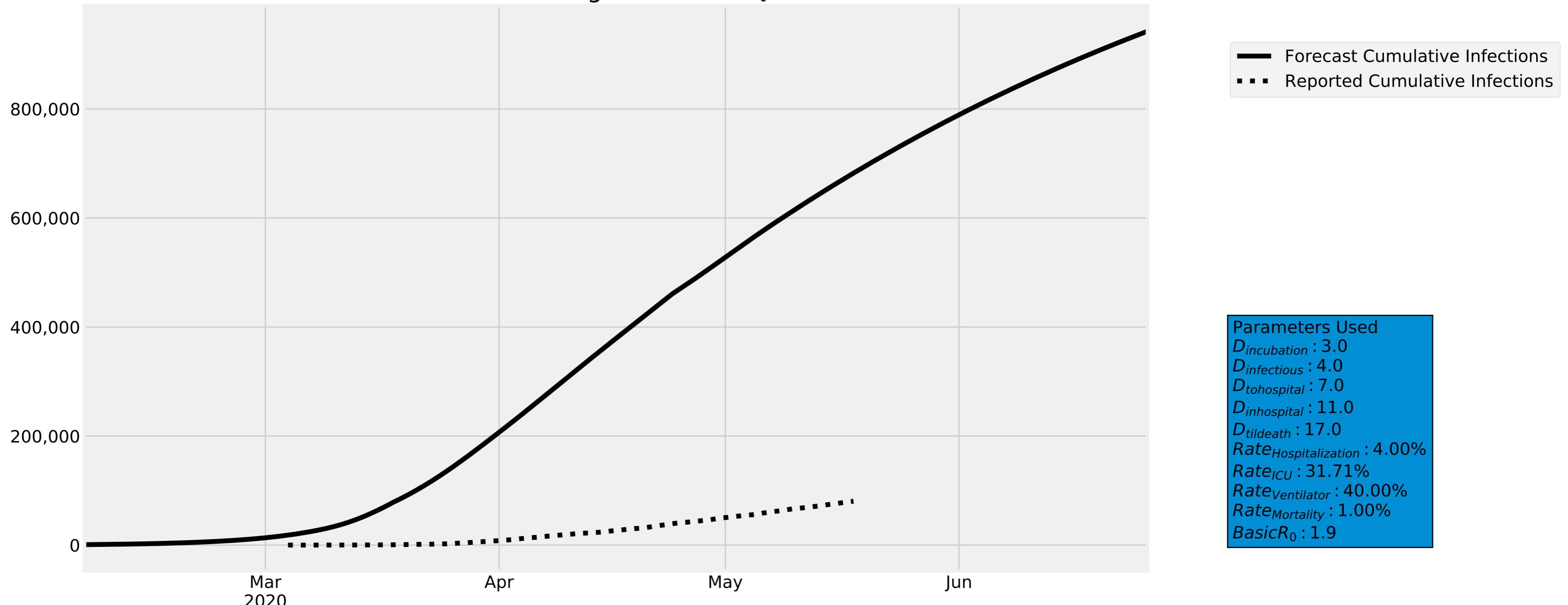
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

California: No Change in Future R_t Scenario



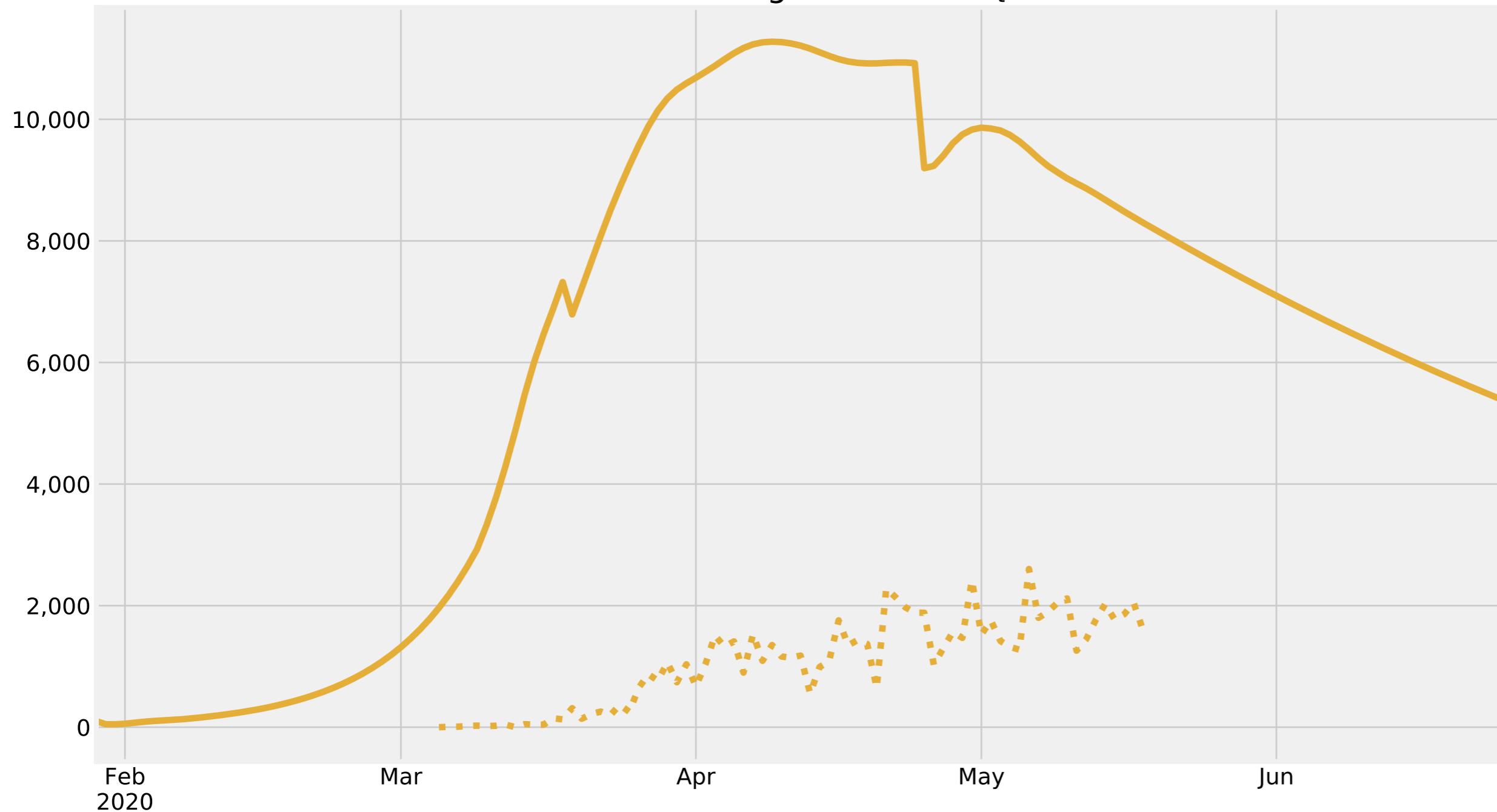
Cumulative Infections Forecast California: No Change in Future R_t Scenario



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%
- $BasicR_0$: 1.9

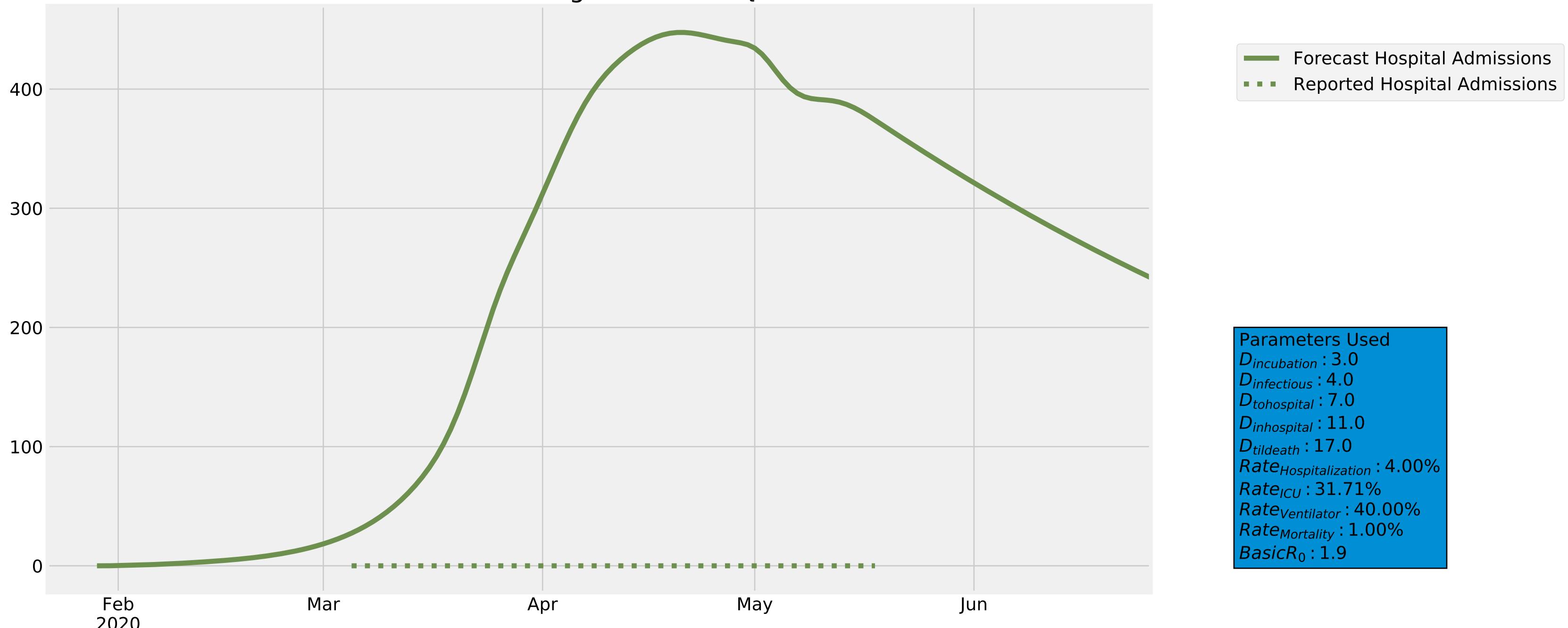
Daily Exposures Forecast California: No Change in Future R_t Scenario



Parameters Used

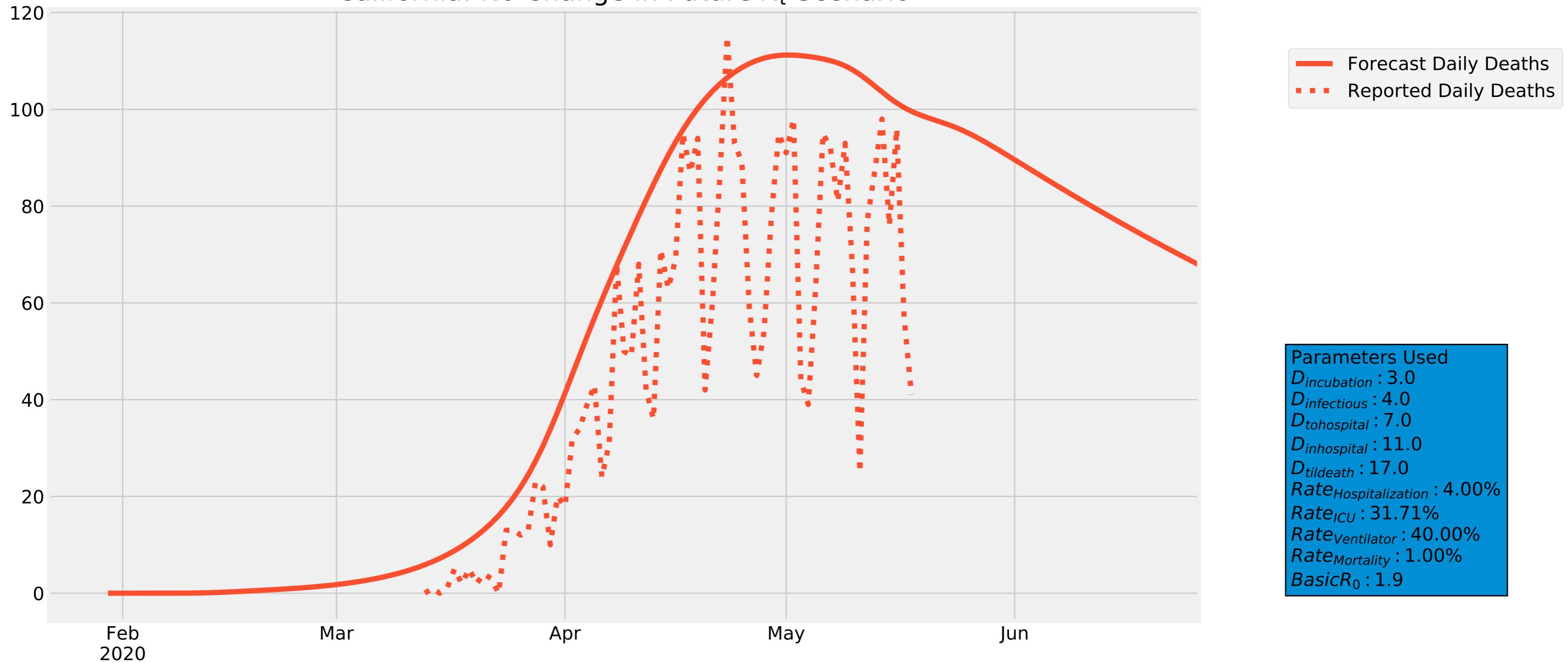
$D_{incubation}$: 3.0
 $D_{infectious}$: 4.0
 $D_{tohospital}$: 7.0
 $D_{inhospital}$: 11.0
 $D_{tildeath}$: 17.0
 $Rate_{Hospitalization}$: 4.00%
 $Rate_{ICU}$: 31.71%
 $Rate_{Ventilator}$: 40.00%
 $Rate_{Mortality}$: 1.00%
 $BasicR_0$: 1.9

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



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

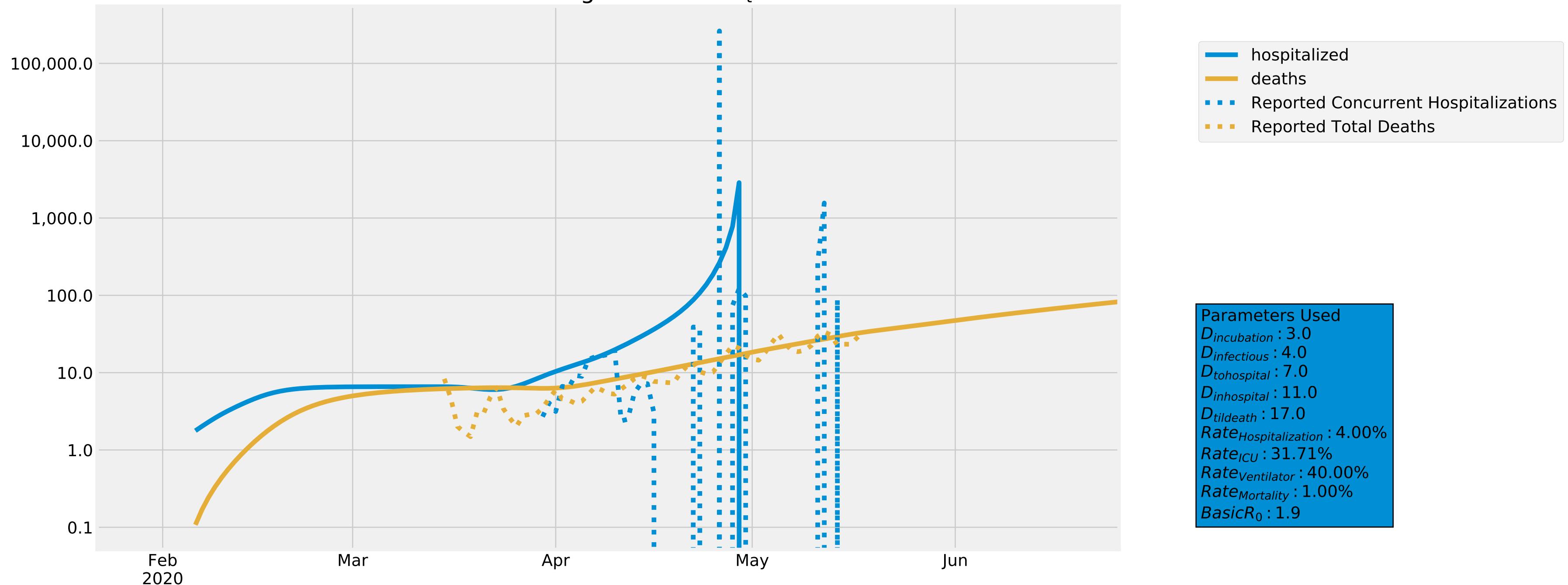
Daily Deaths Forecast California: No Change in Future R_t Scenario



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%
Basic R_0	: 1.9

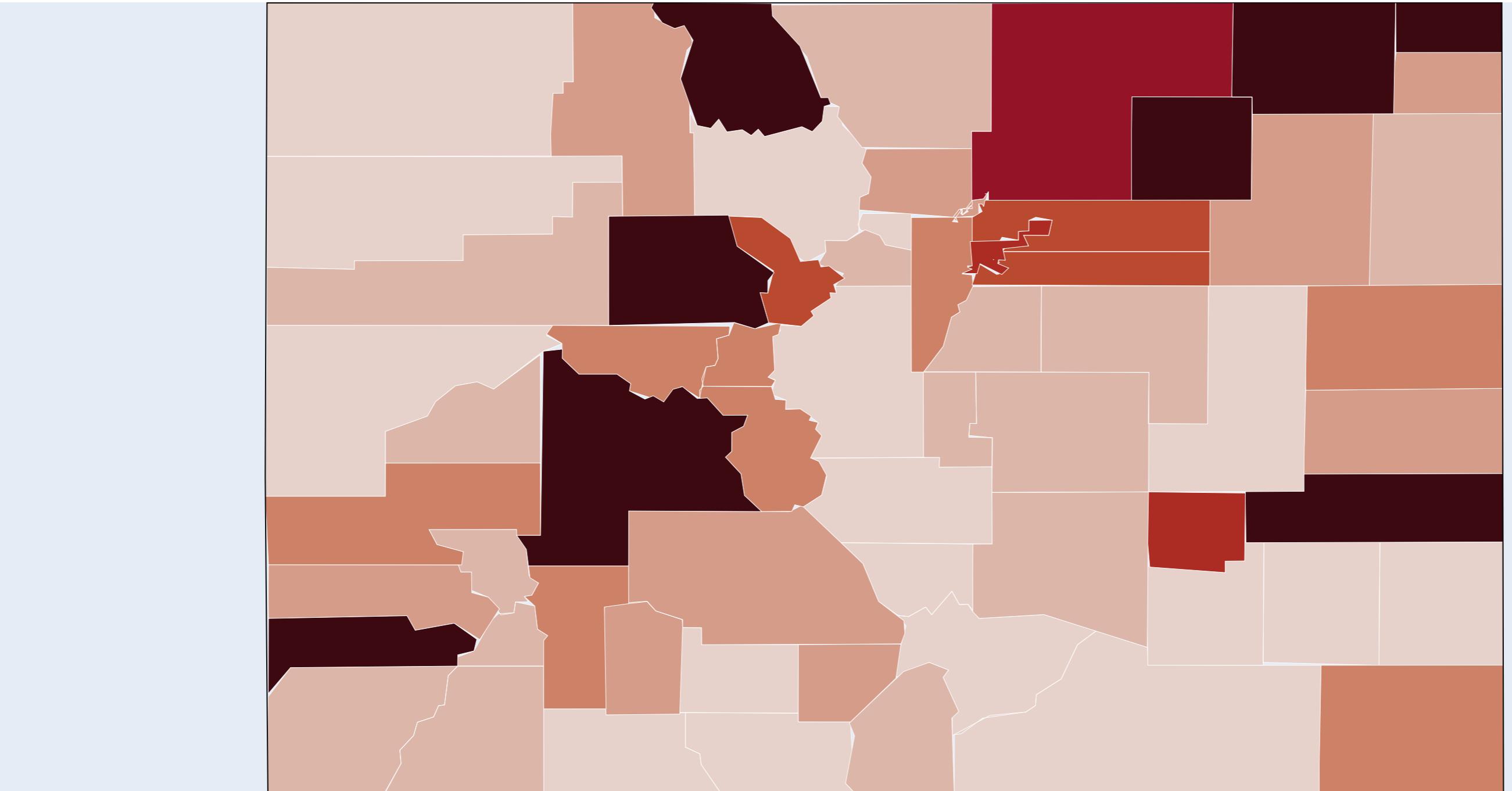
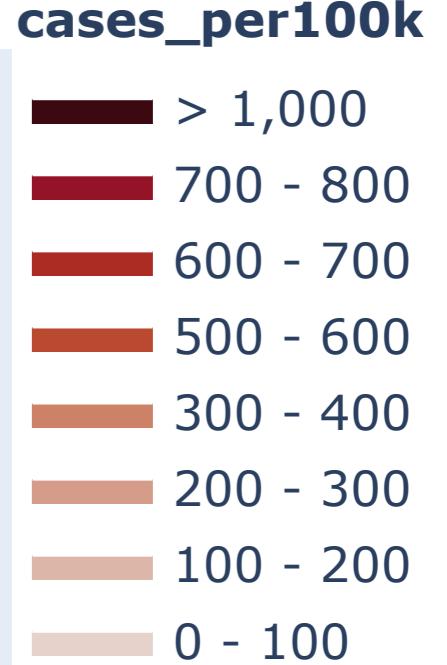
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast California: No Change in Future R_t Scenario

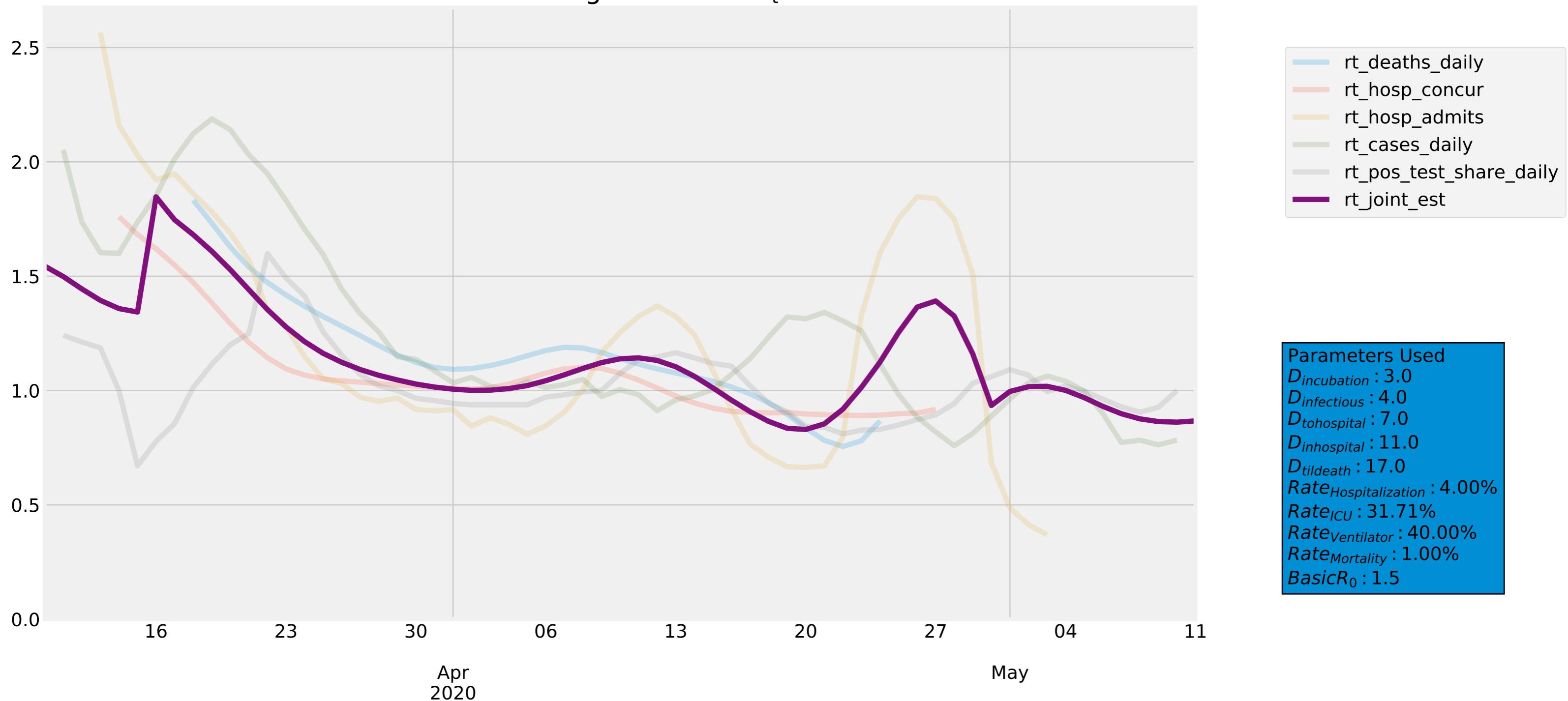


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Colorado: COVID-19 Cases Per 100k Residents



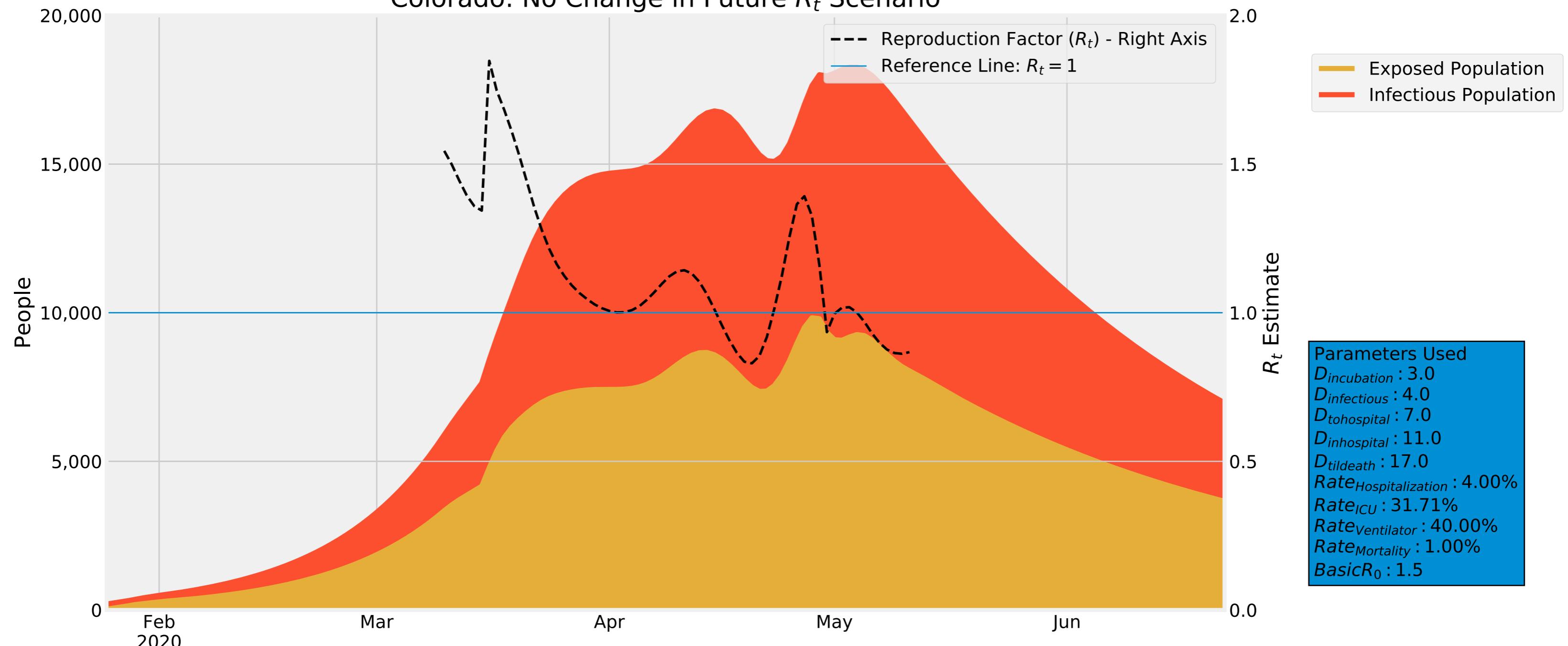
Reproduction Rate (R_t) Estimates Colorado: No Change in Future R_t Scenario



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

Simultaneous Infections Forecast

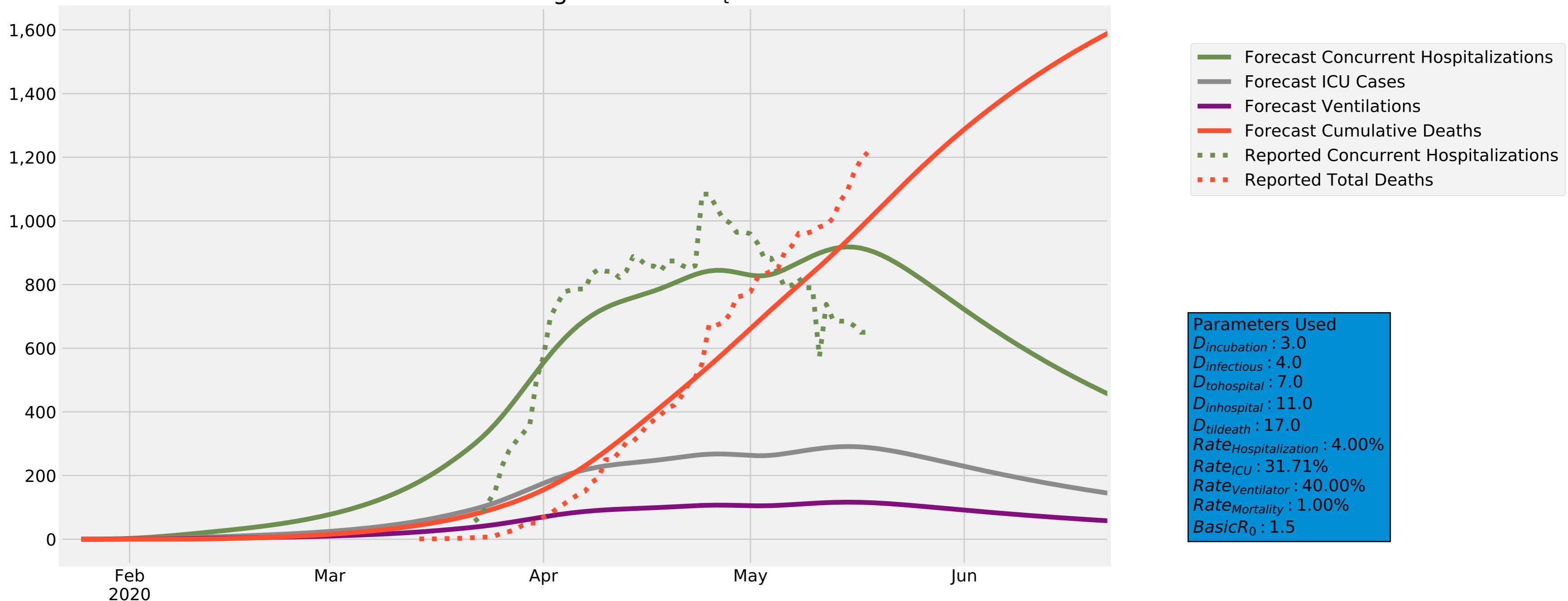
Colorado: No Change in Future R_t Scenario



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

Hospitalization and Deaths Forecast

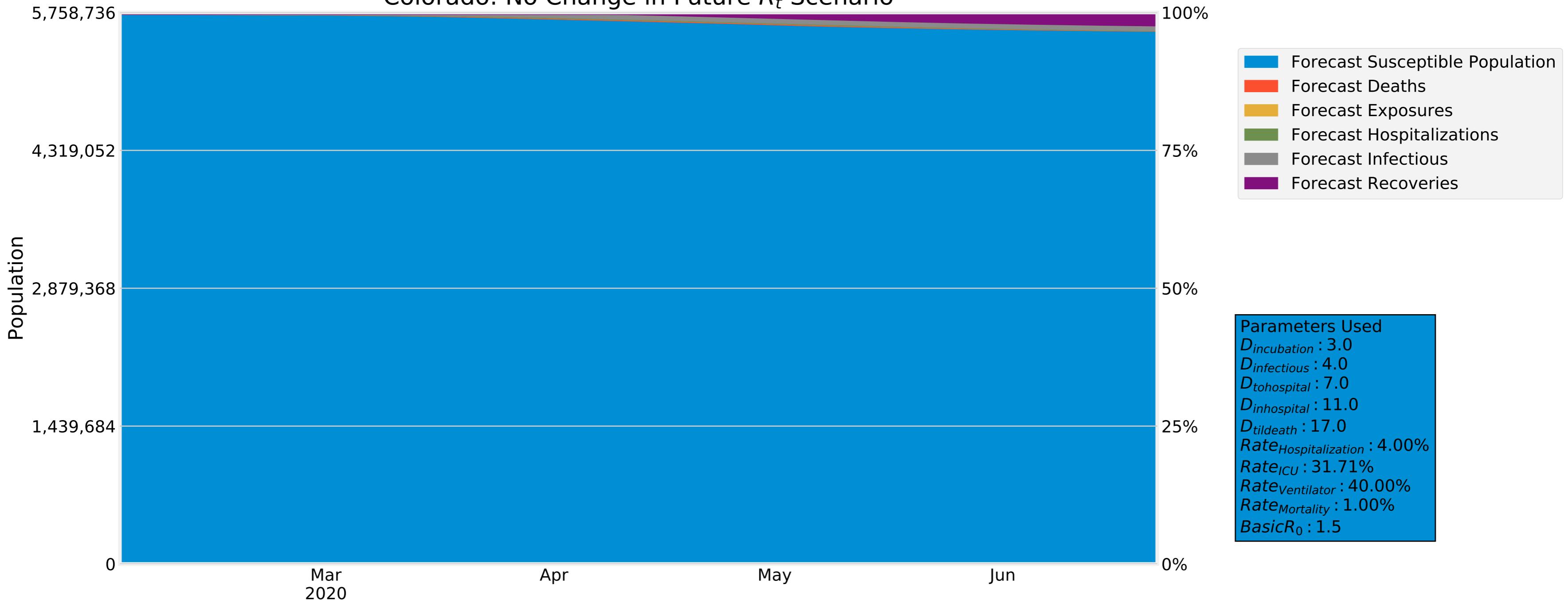
Colorado: No Change in Future R_t Scenario



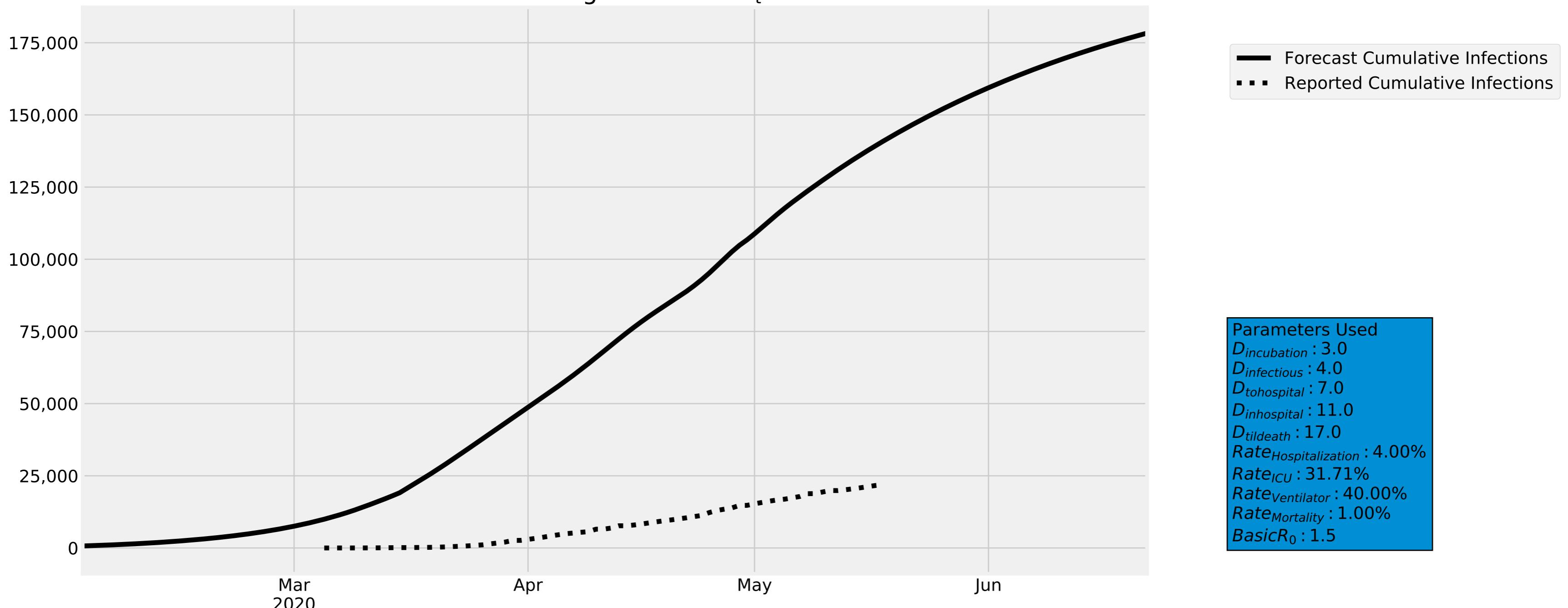
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

Colorado: No Change in Future R_t Scenario



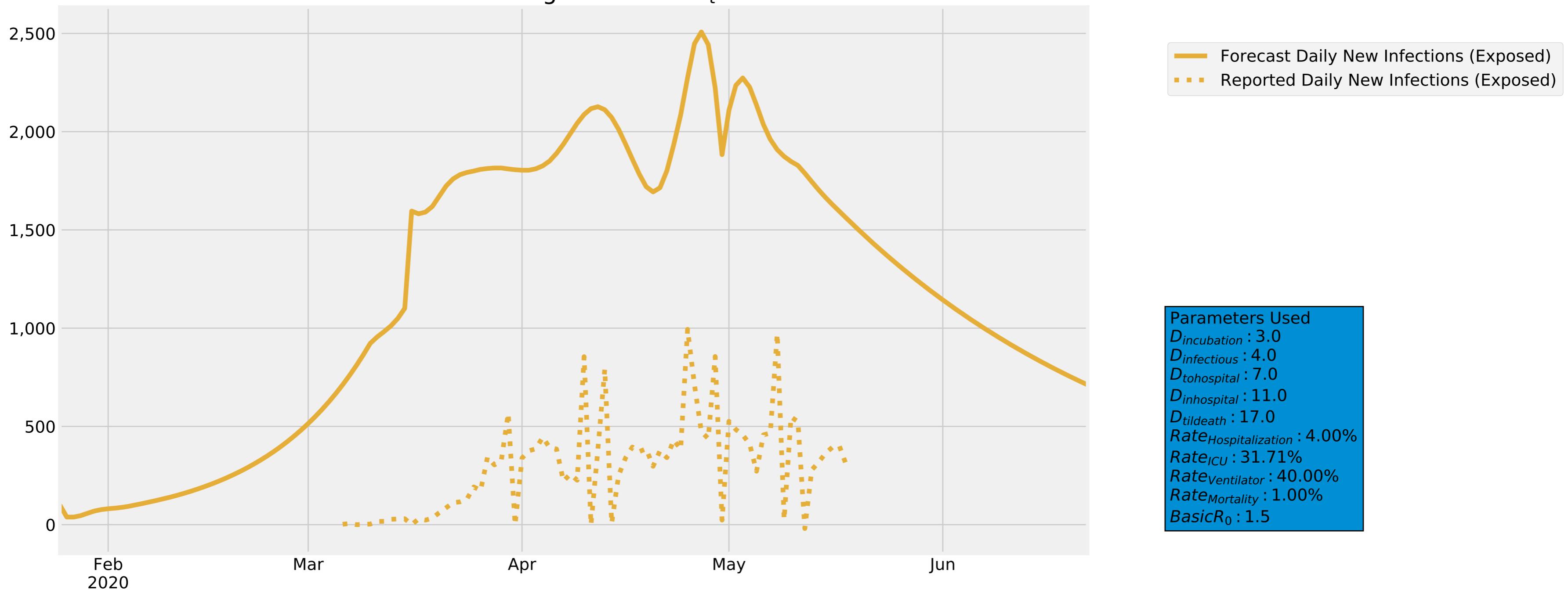
Cumulative Infections Forecast Colorado: No Change in Future R_t Scenario



Parameters Used

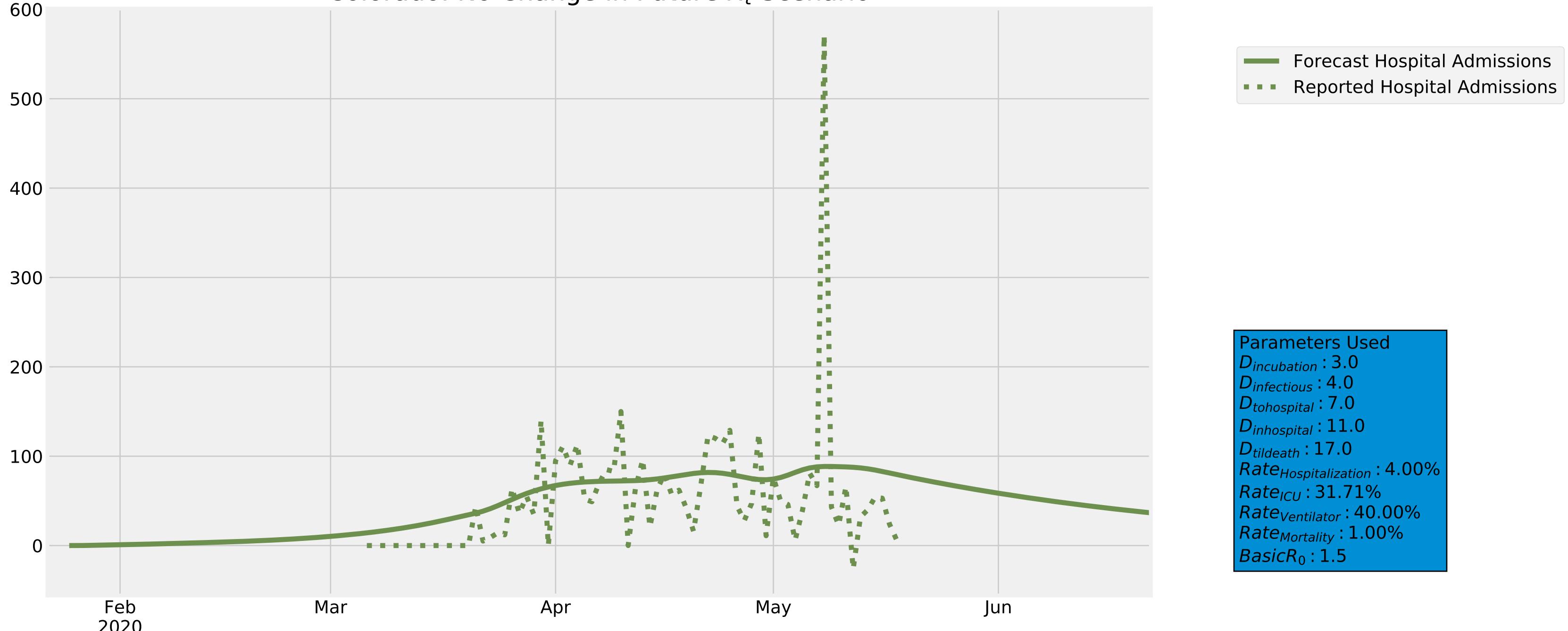
- $D_{incubation}$: 3.0
- $D_{infectious}$: 4.0
- $D_{tohospital}$: 7.0
- $D_{inhospital}$: 11.0
- $D_{tildeath}$: 17.0
- $Rate_{Hospitalization}$: 4.00%
- $Rate_{ICU}$: 31.71%
- $Rate_{Ventilator}$: 40.00%
- $Rate_{Mortality}$: 1.00%
- $BasicR_0$: 1.5

Daily Exposures Forecast Colorado: No Change in Future R_t Scenario



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

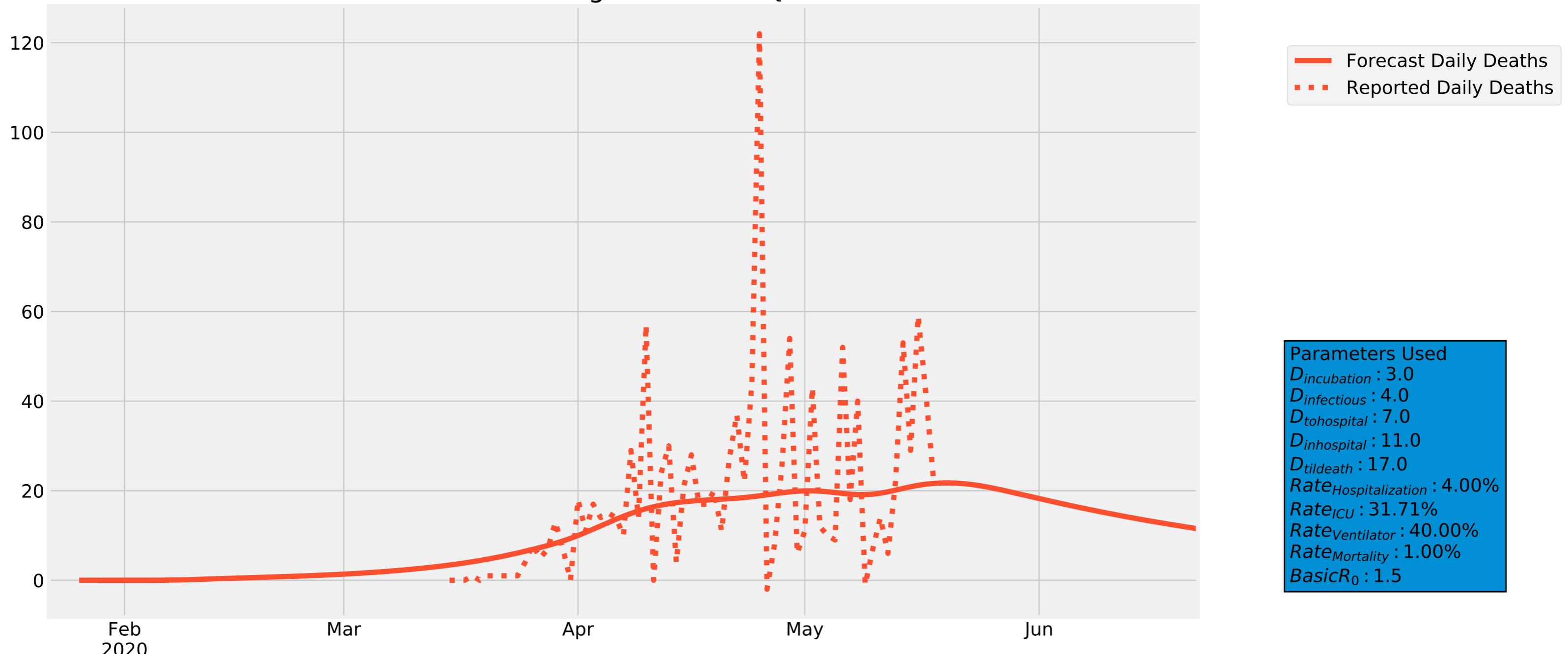
Daily Hospital Admissions Forecast Colorado: No Change in Future R_t Scenario



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

Daily Deaths Forecast

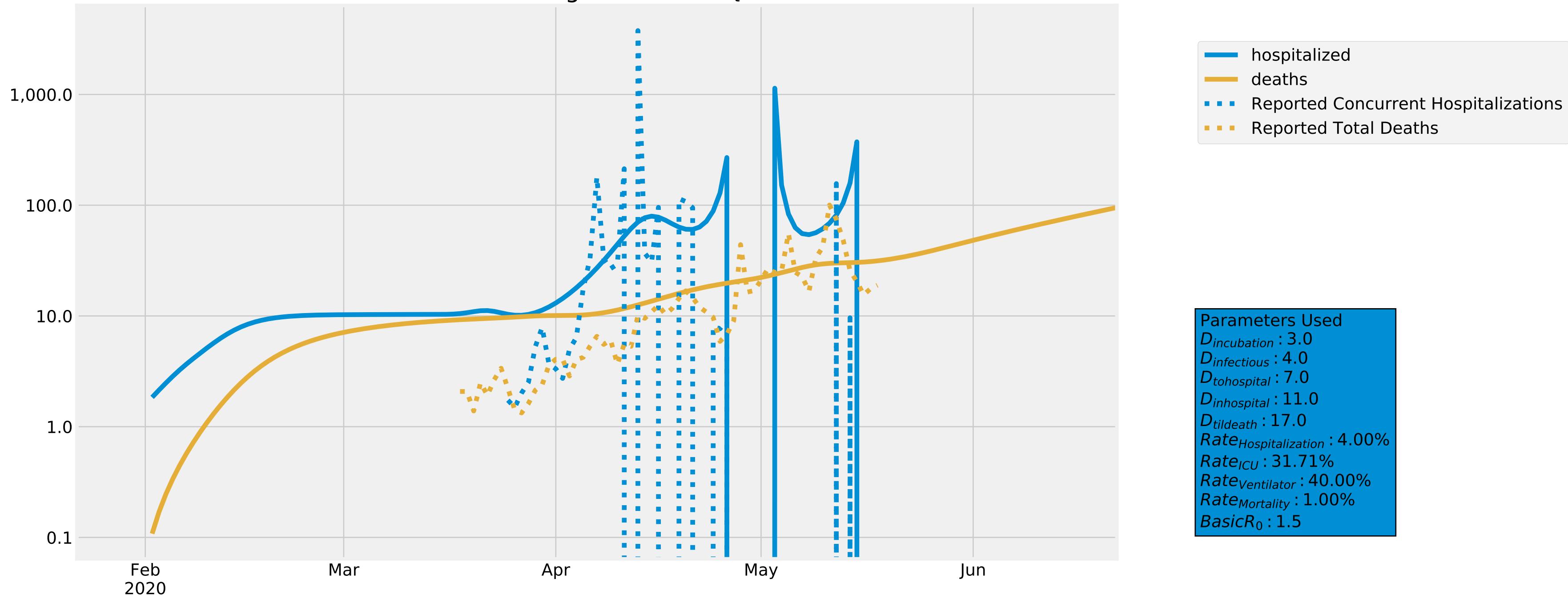
Colorado: No Change in Future R_t Scenario



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

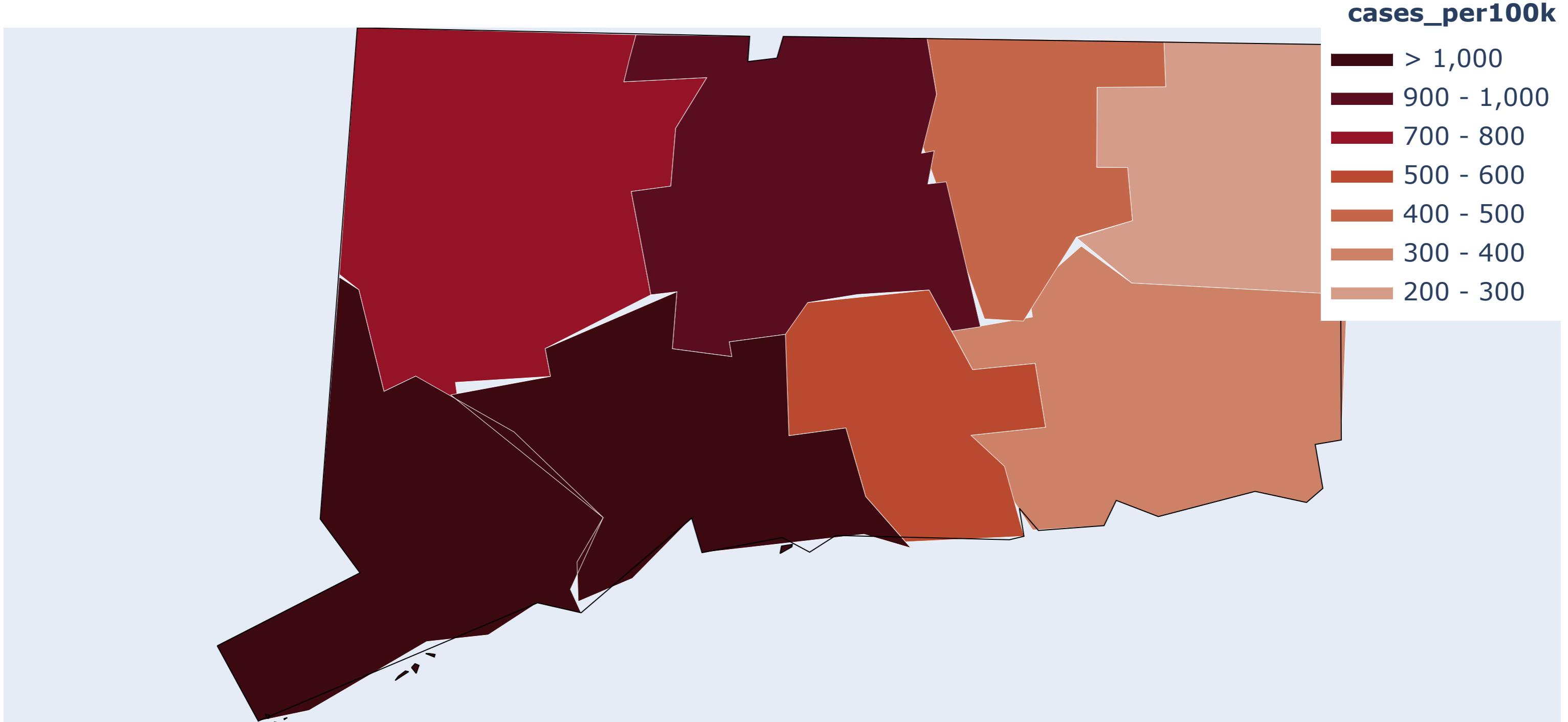
Doubling Rate Forecast

Colorado: No Change in Future R_t Scenario

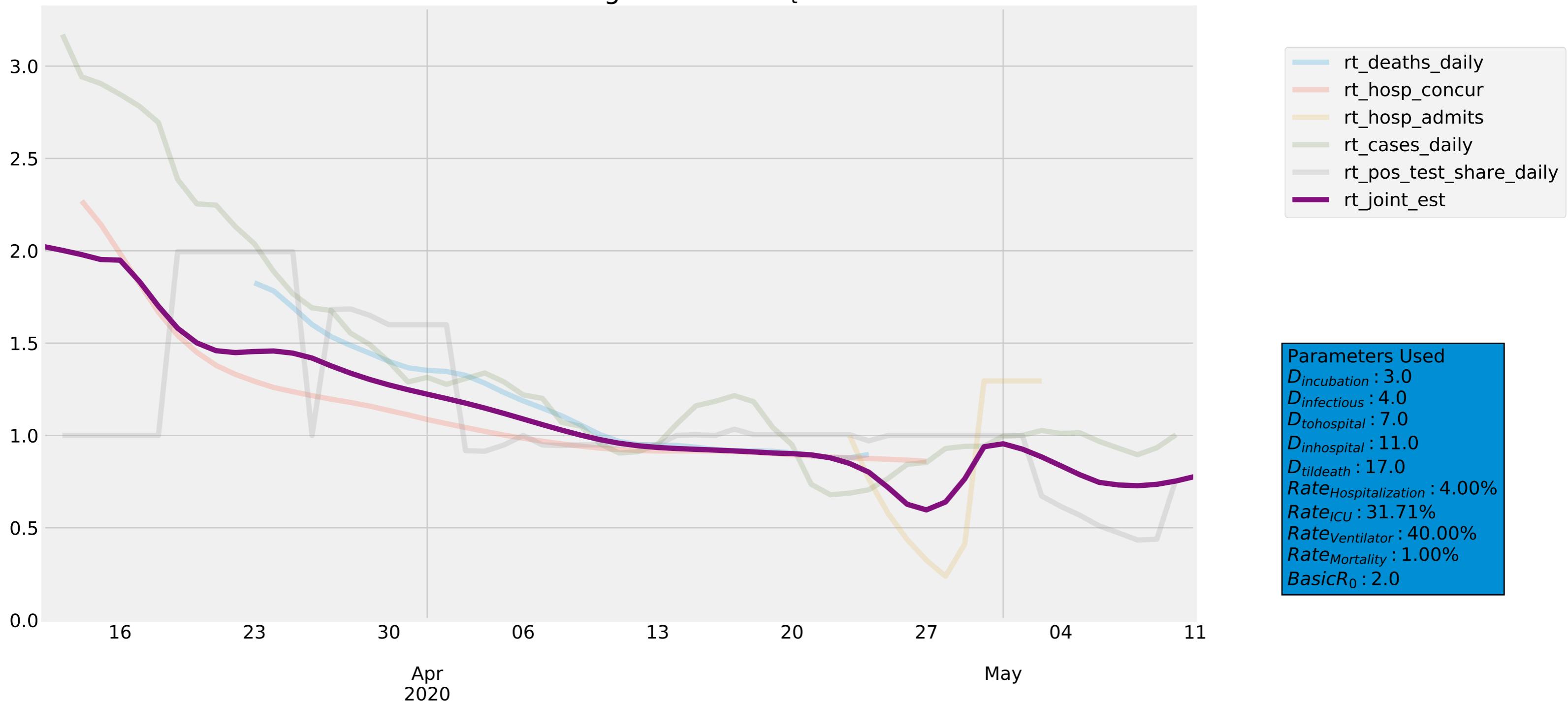


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Connecticut: COVID-19 Cases Per 100k Residents



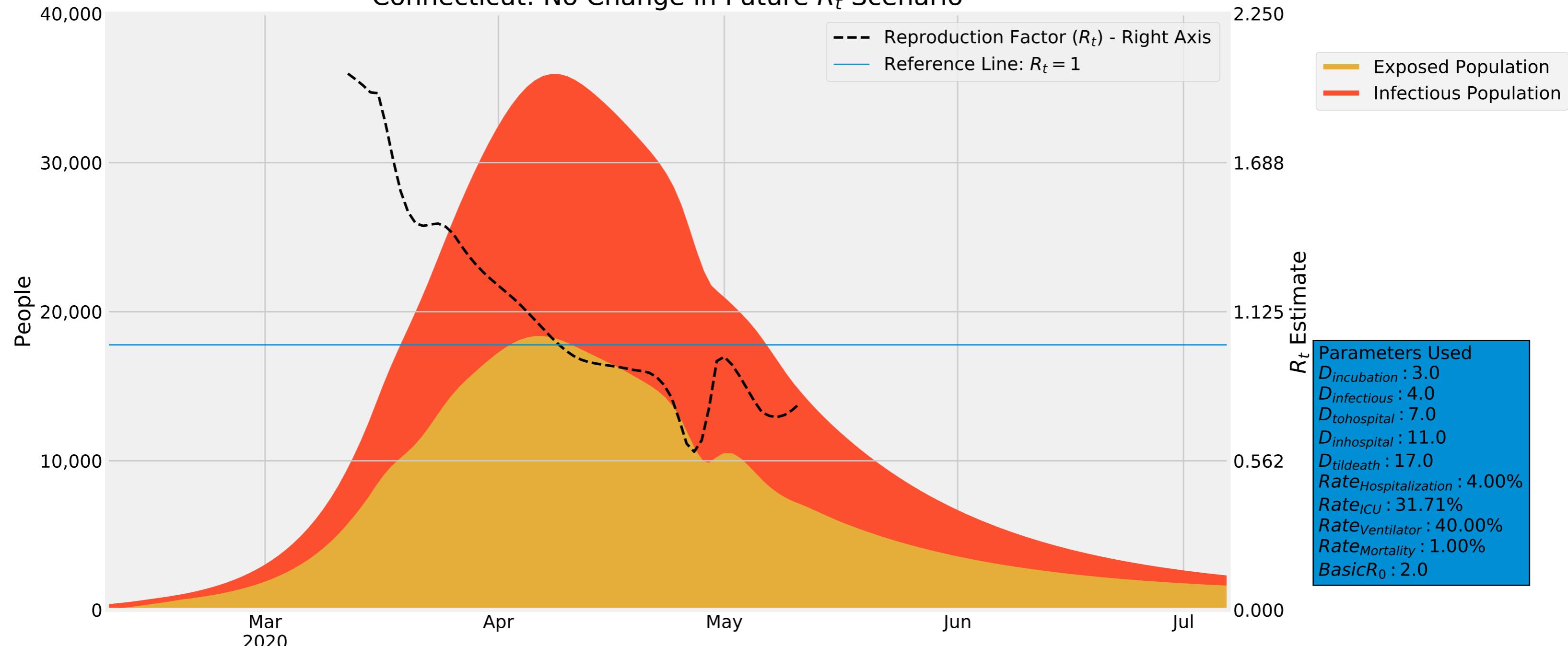
Reproduction Rate (R_t) Estimates Connecticut: No Change in Future R_t Scenario



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

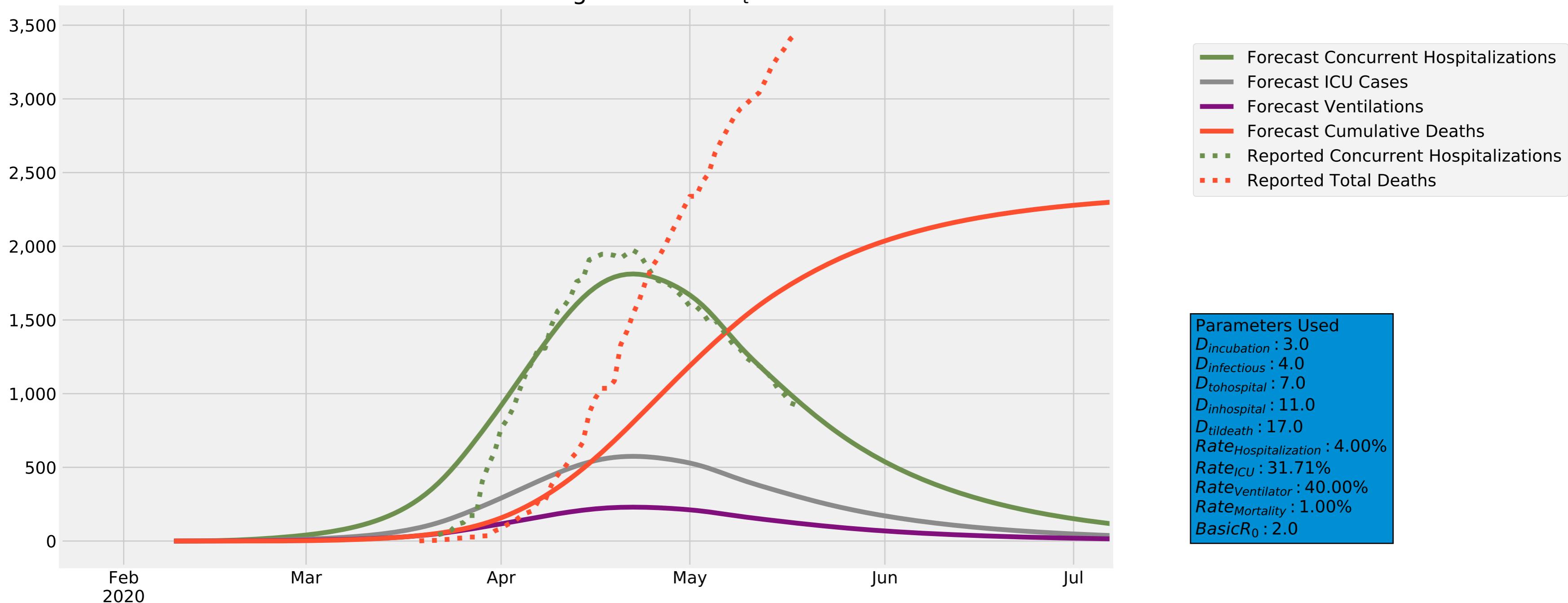
Simultaneous Infections Forecast

Connecticut: No Change in Future R_t Scenario



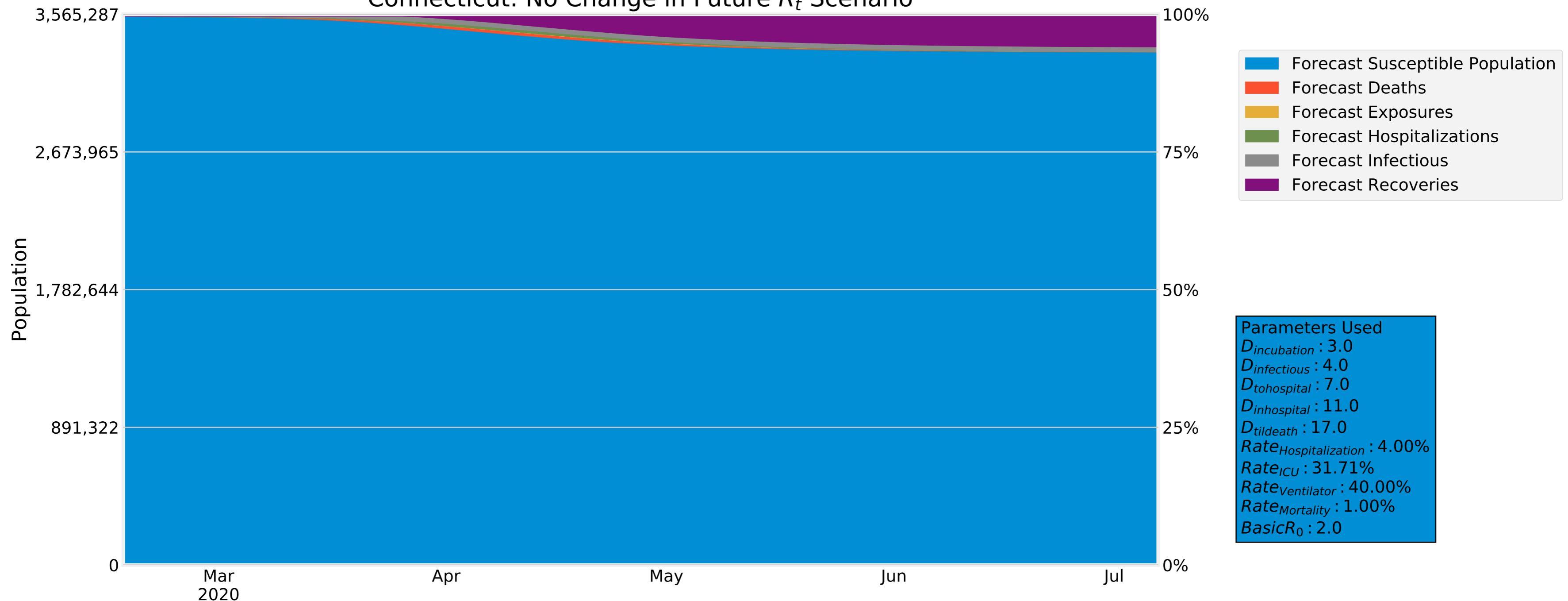
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

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

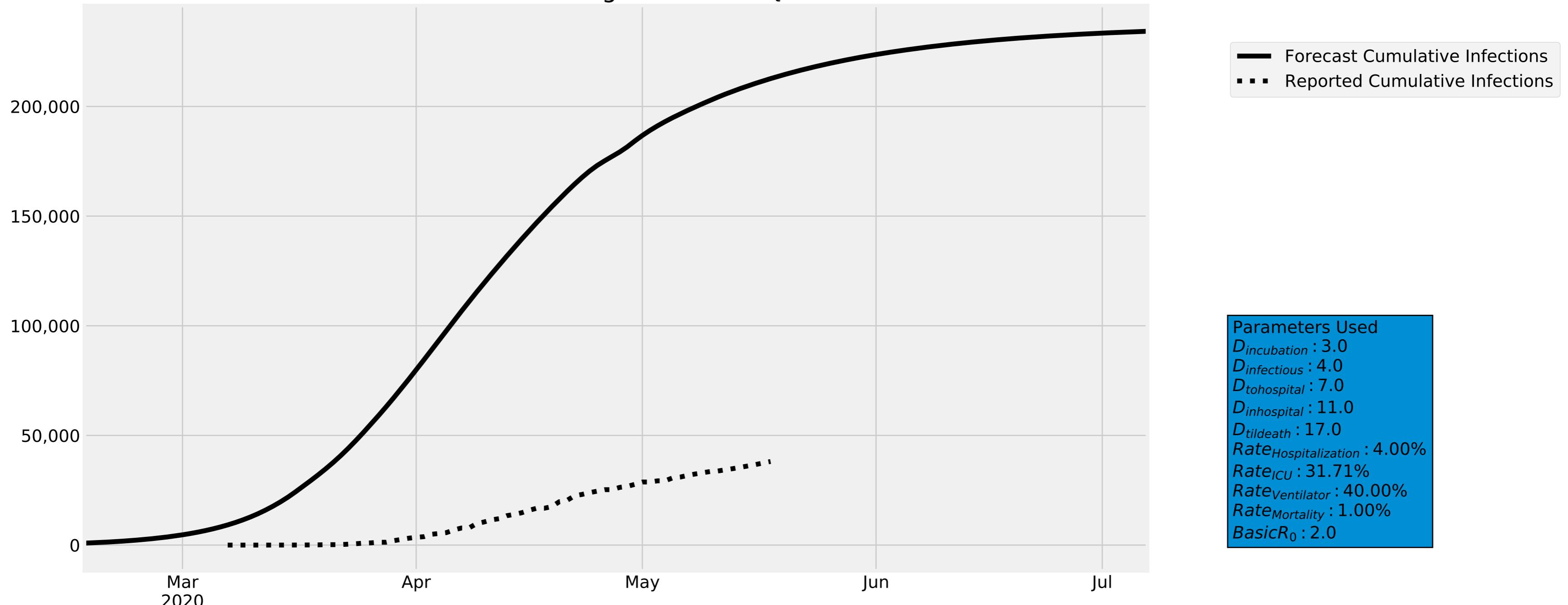


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast Connecticut: No Change in Future R_t Scenario



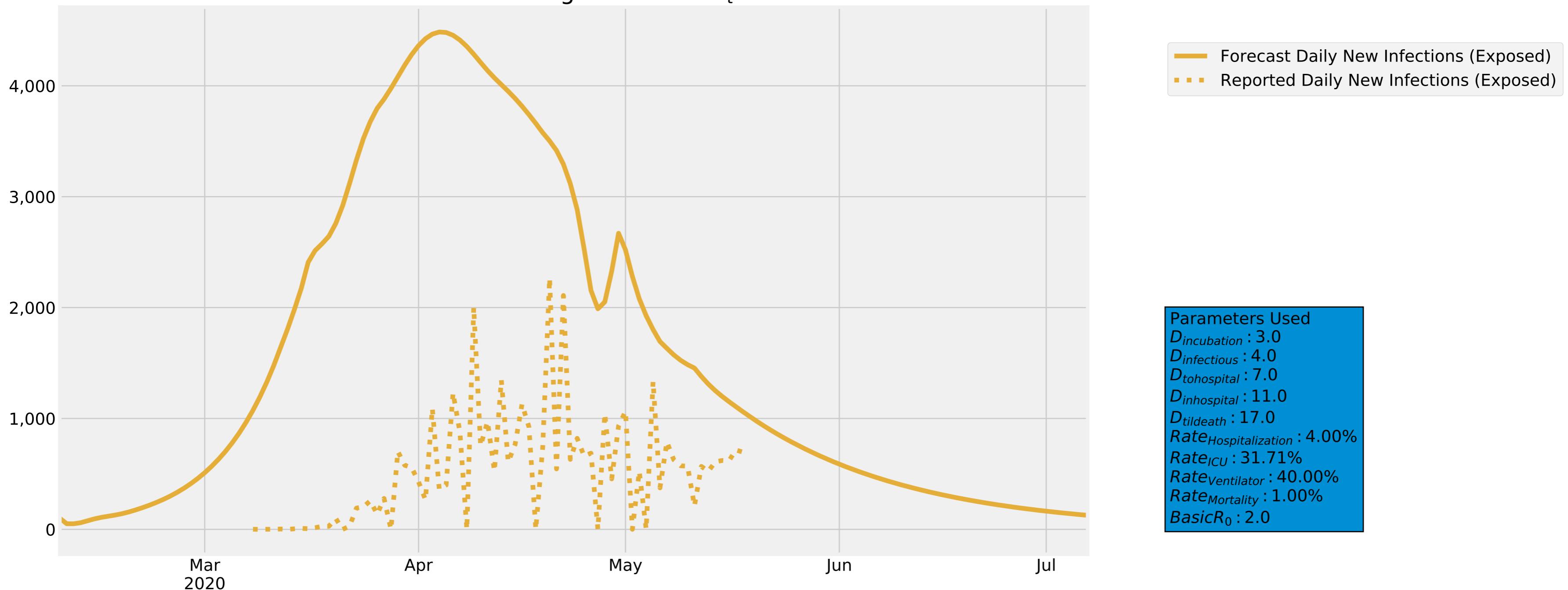
Cumulative Infections Forecast Connecticut: No Change in Future R_t Scenario



Parameters Used

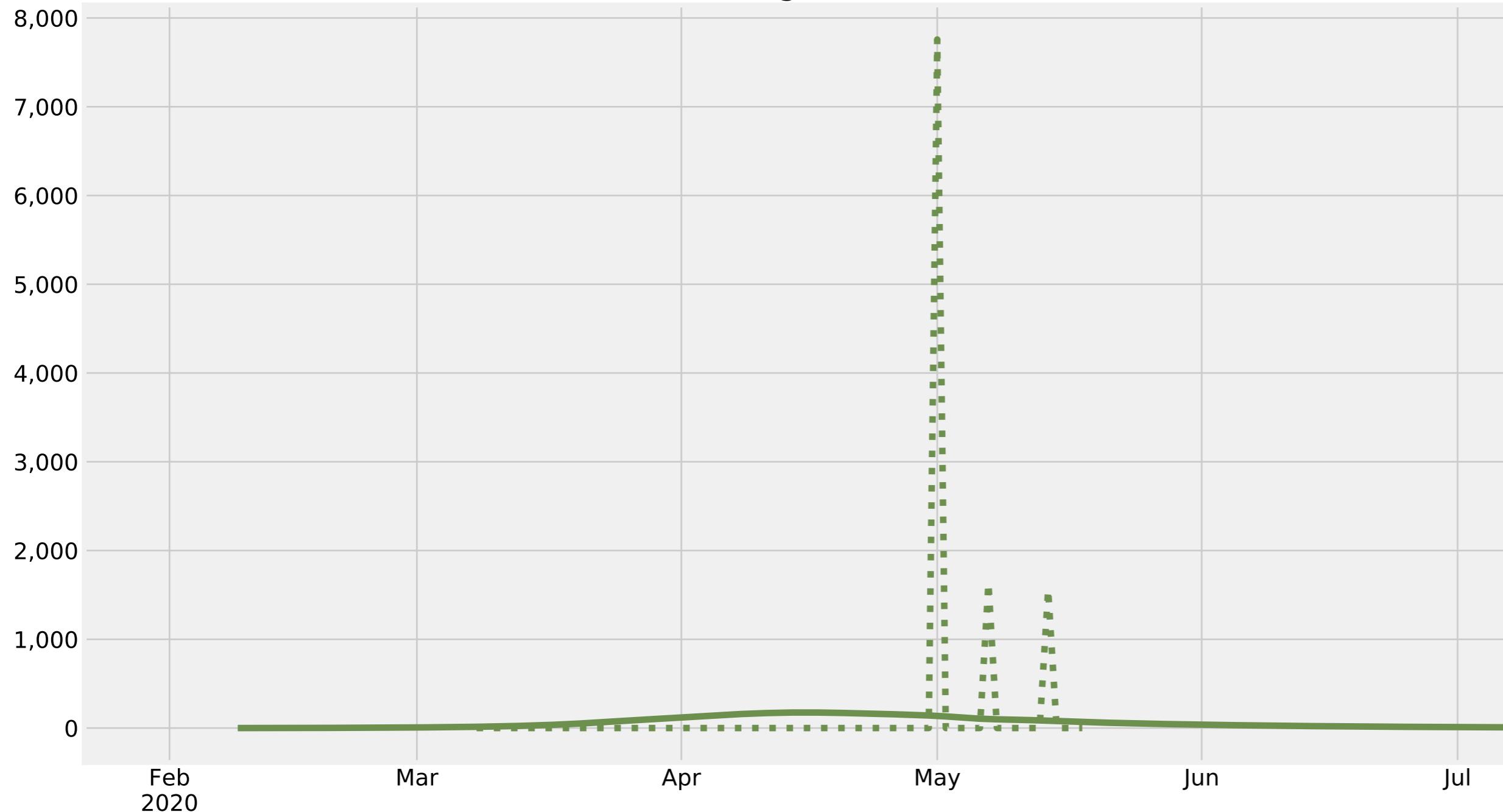
- $D_{incubation}$: 3.0
- $D_{infectious}$: 4.0
- $D_{tohospital}$: 7.0
- $D_{inhospital}$: 11.0
- $D_{tildeath}$: 17.0
- $Rate_{Hospitalization}$: 4.00%
- $Rate_{ICU}$: 31.71%
- $Rate_{Ventilator}$: 40.00%
- $Rate_{Mortality}$: 1.00%
- $BasicR_0$: 2.0

Daily Exposures Forecast Connecticut: No Change in Future R_t Scenario



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

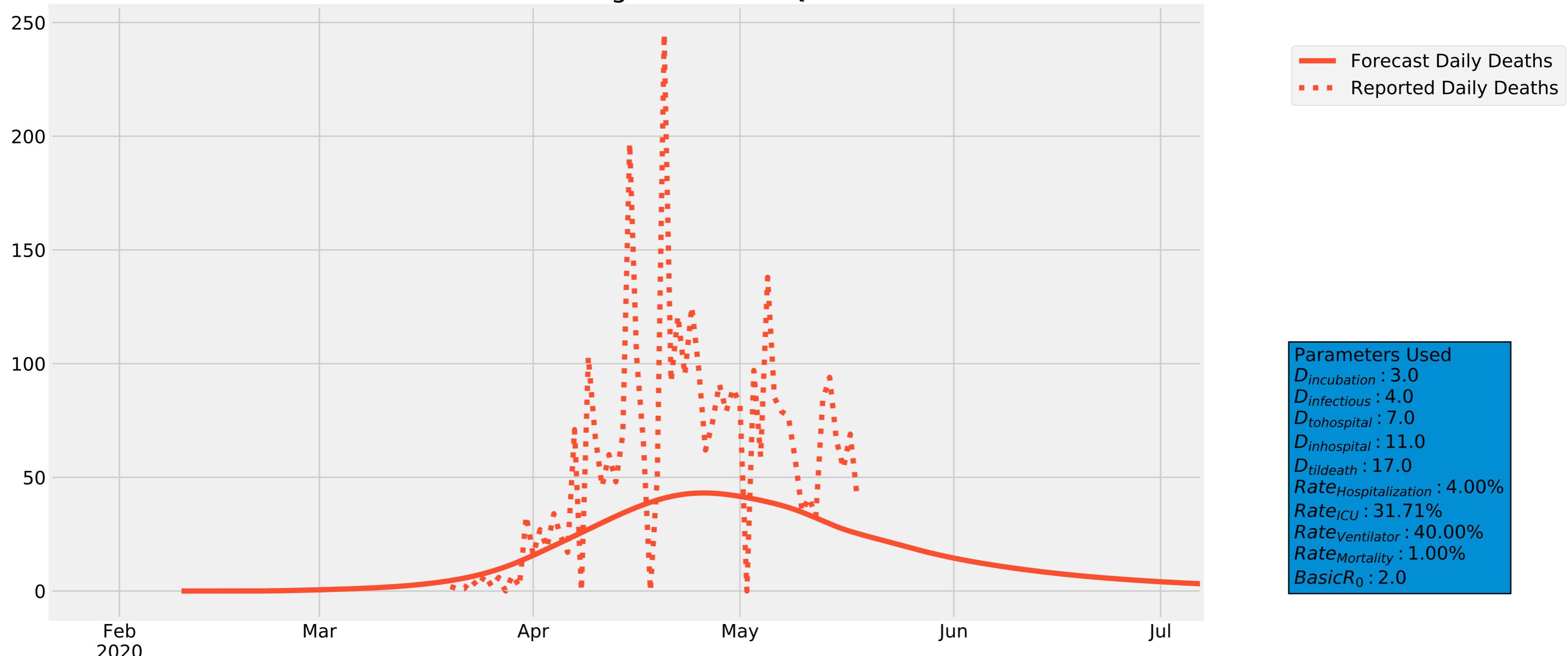
Daily Hospital Admissions Forecast Connecticut: No Change in Future R_t Scenario



Parameters Used

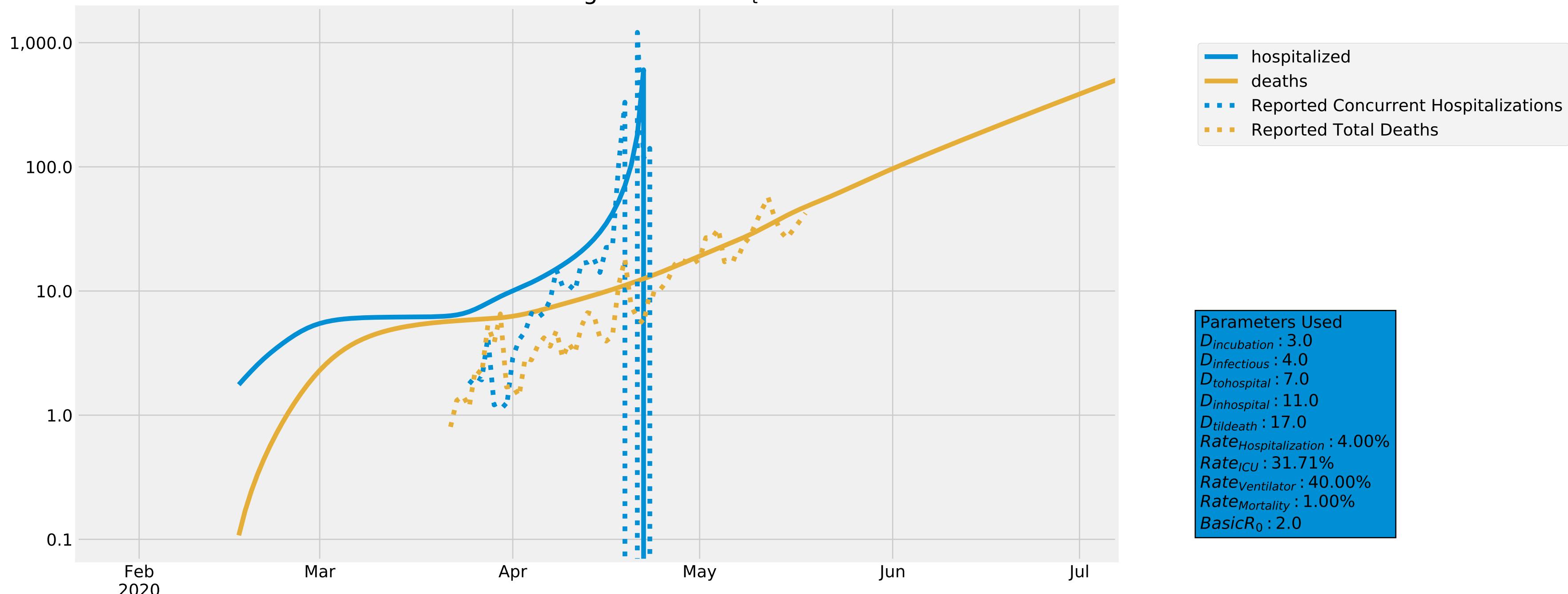
$D_{incubation}$: 3.0
$D_{infectious}$: 4.0
$D_{tohospital}$: 7.0
$D_{inhospital}$: 11.0
$D_{tildeath}$: 17.0
$Rate_{Hospitalization}$: 4.00%
$Rate_{ICU}$: 31.71%
$Rate_{Ventilator}$: 40.00%
$Rate_{Mortality}$: 1.00%
$BasicR_0$: 2.0

Daily Deaths Forecast Connecticut: No Change in Future R_t Scenario



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

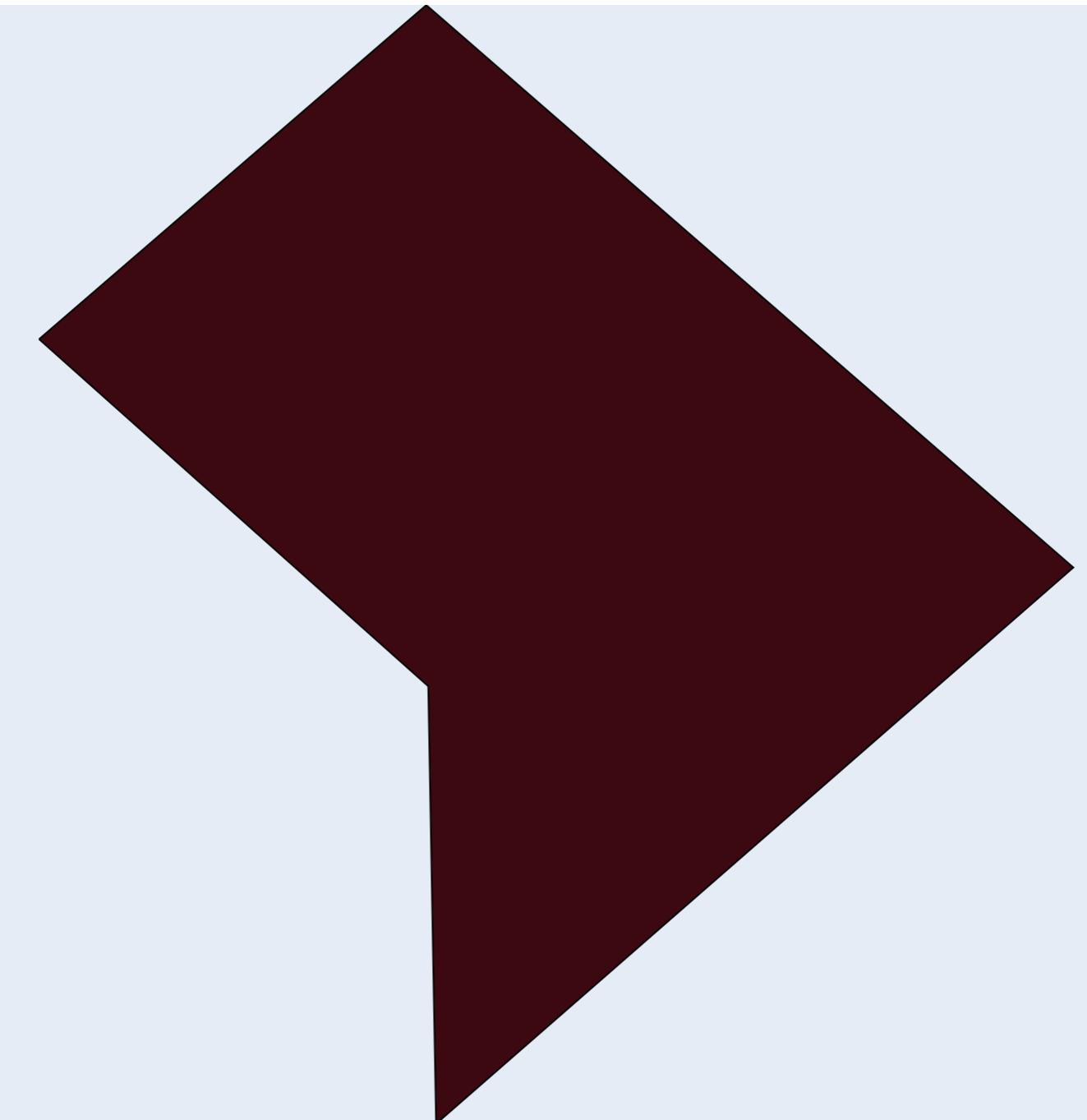
Doubling Rate Forecast Connecticut: No Change in Future R_t Scenario



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

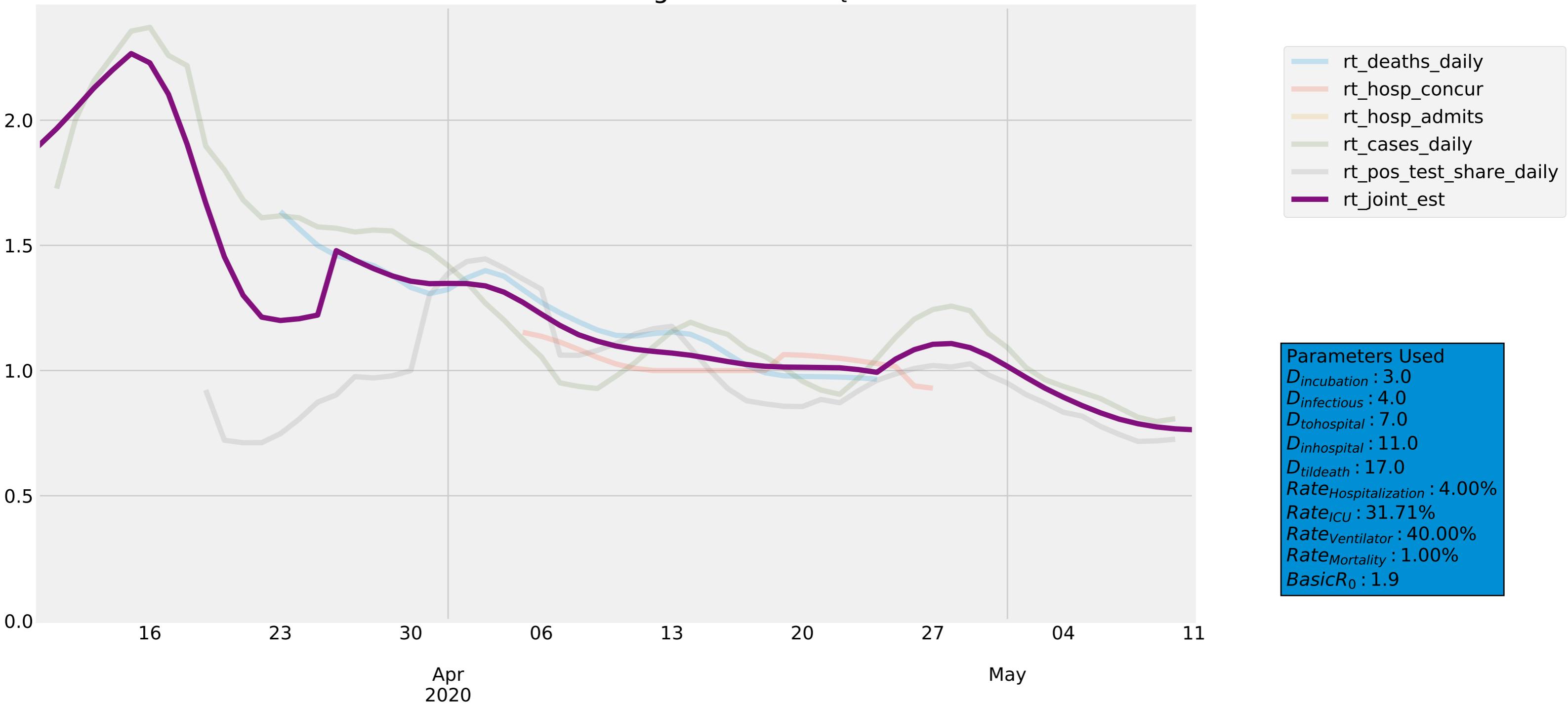
District of Columbia: COVID-19 Cases Per 100k Residents

cases_per100k
— > 1,000



Reproduction Rate (R_t) Estimates

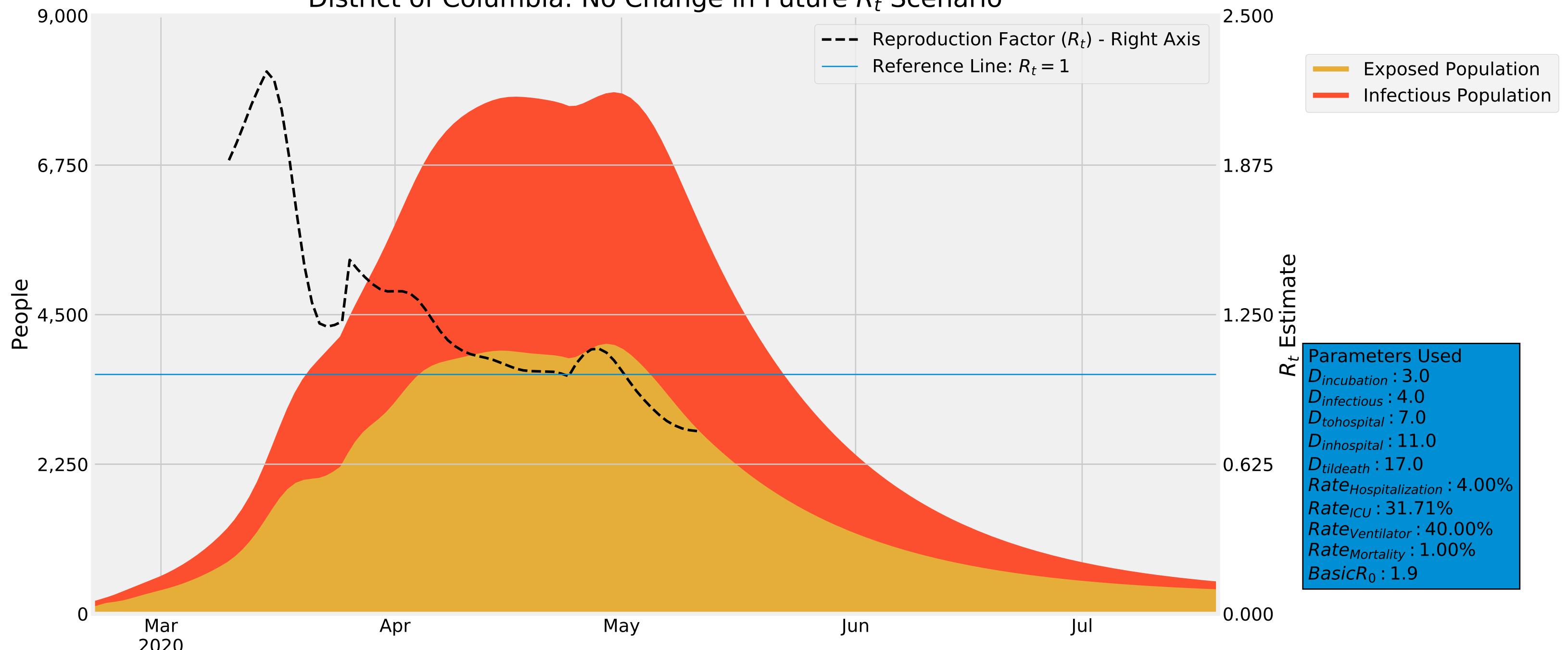
District of Columbia: No Change in Future R_t Scenario



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

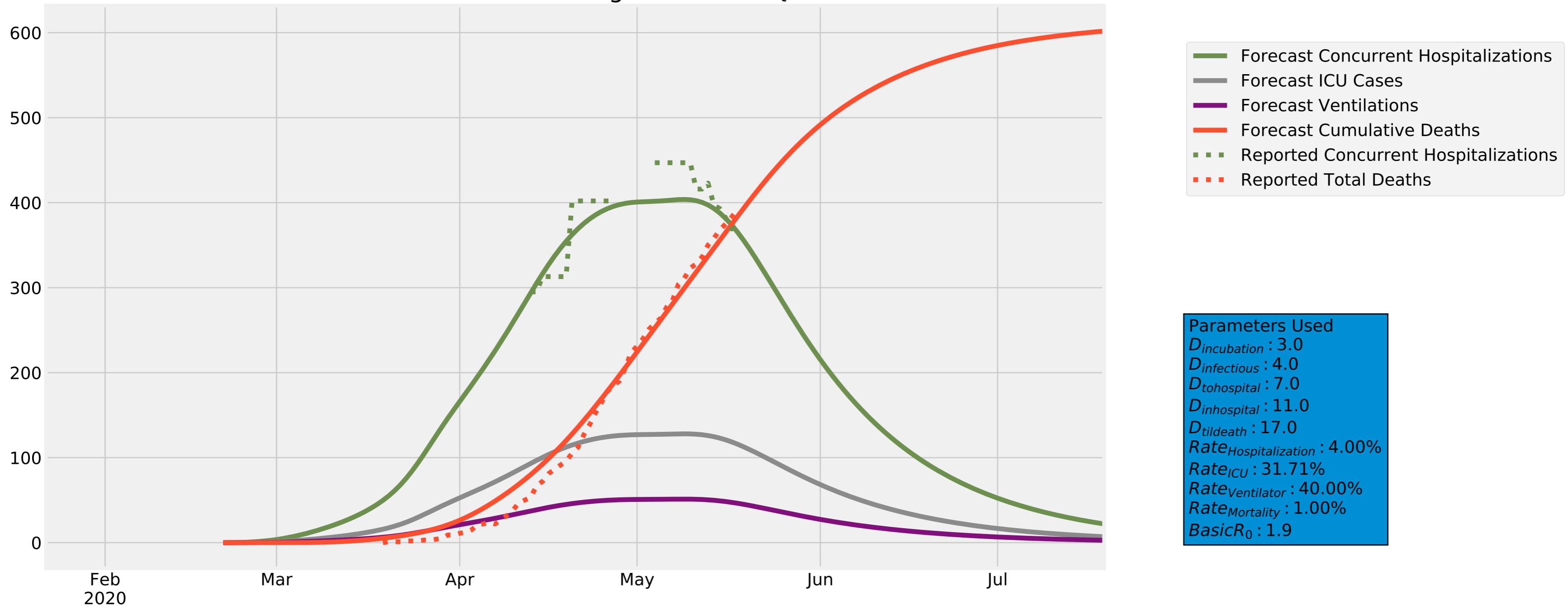
Simultaneous Infections Forecast

District of Columbia: No Change in Future R_t Scenario



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

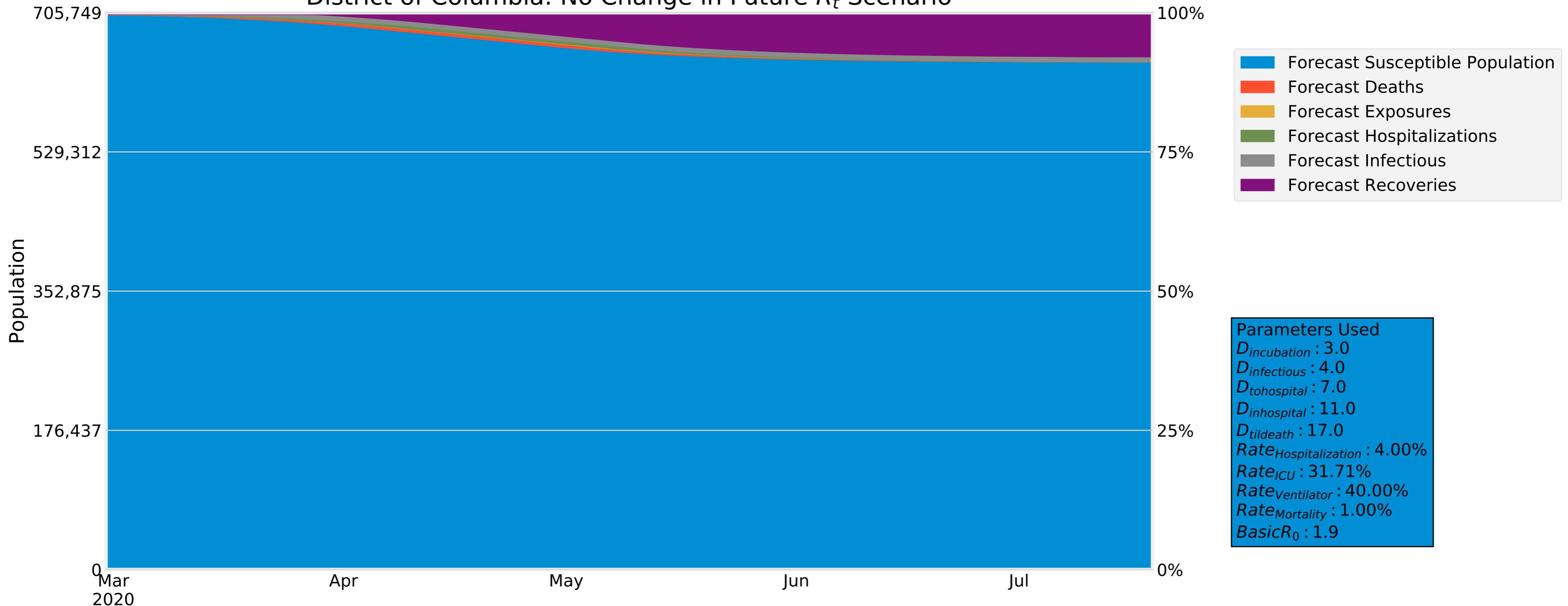
Hospitalization and Deaths Forecast District of Columbia: No Change in Future R_t Scenario



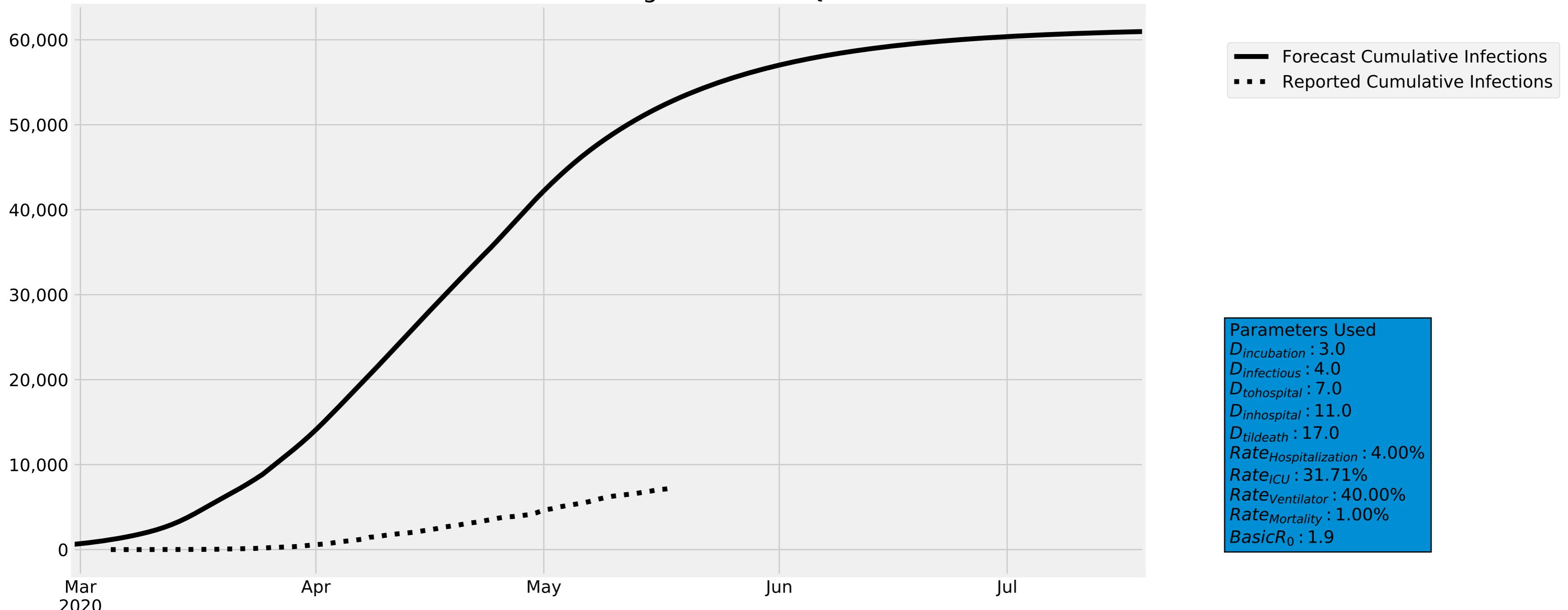
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

District of Columbia: No Change in Future R_t Scenario



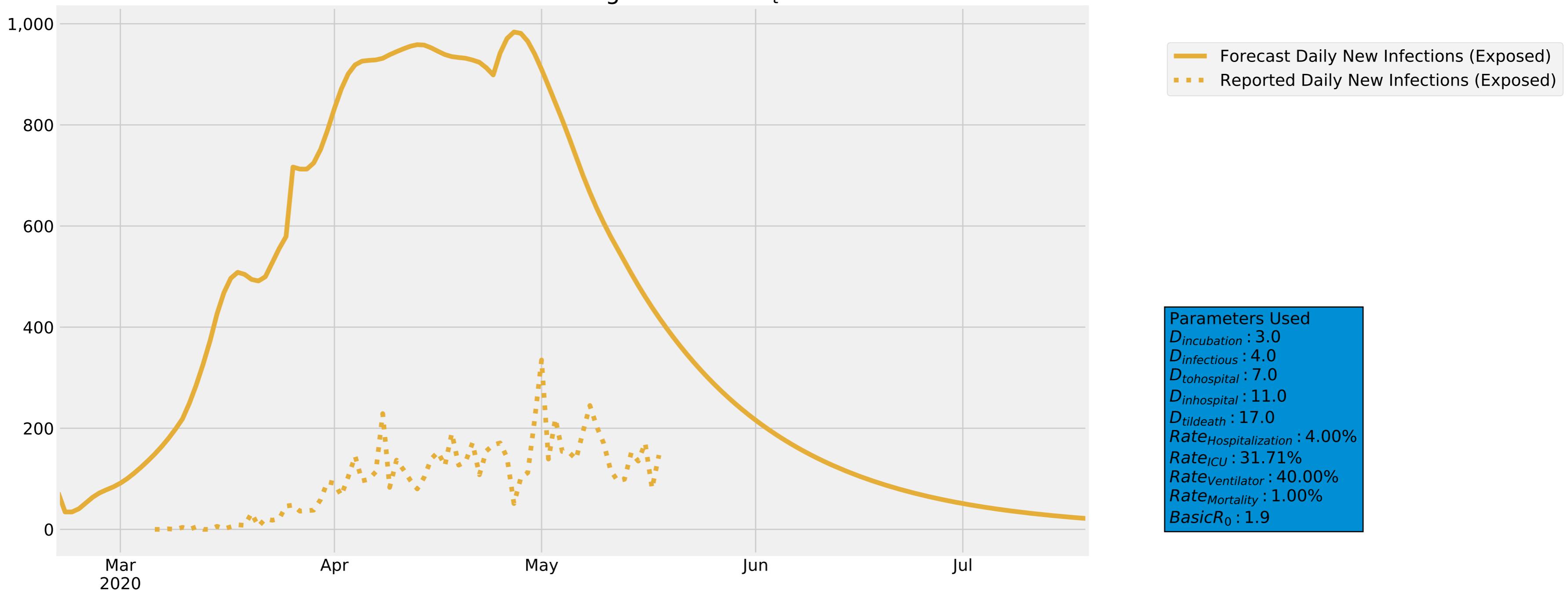
Cumulative Infections Forecast District of Columbia: No Change in Future R_t Scenario



Parameters Used

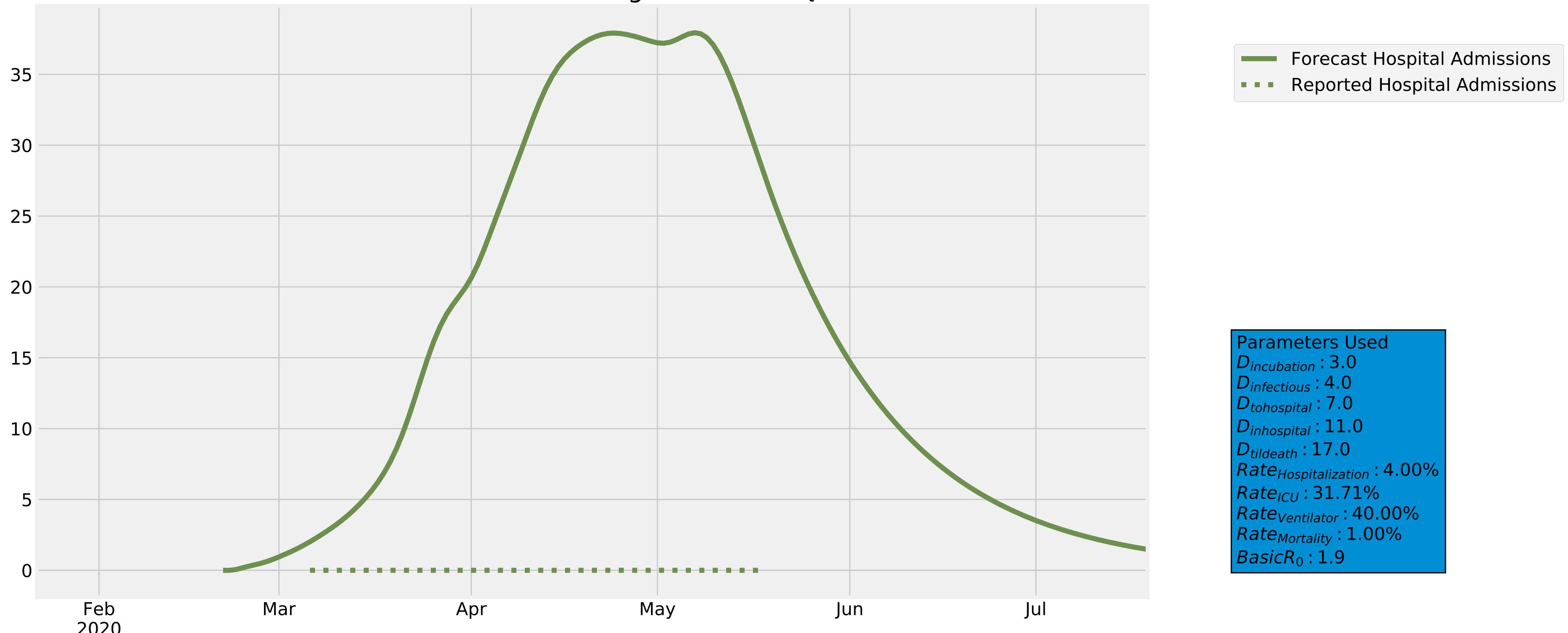
$D_{incubation}$: 3.0
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 $D_{tohospital}$: 7.0
 $D_{inhospital}$: 11.0
 $D_{tildeath}$: 17.0
 $Rate_{Hospitalization}$: 4.00%
 $Rate_{ICU}$: 31.71%
 $Rate_{Ventilator}$: 40.00%
 $Rate_{Mortality}$: 1.00%
 $BasicR_0$: 1.9

Daily Exposures Forecast District of Columbia: No Change in Future R_t Scenario



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

Daily Hospital Admissions Forecast District of Columbia: No Change in Future R_t Scenario

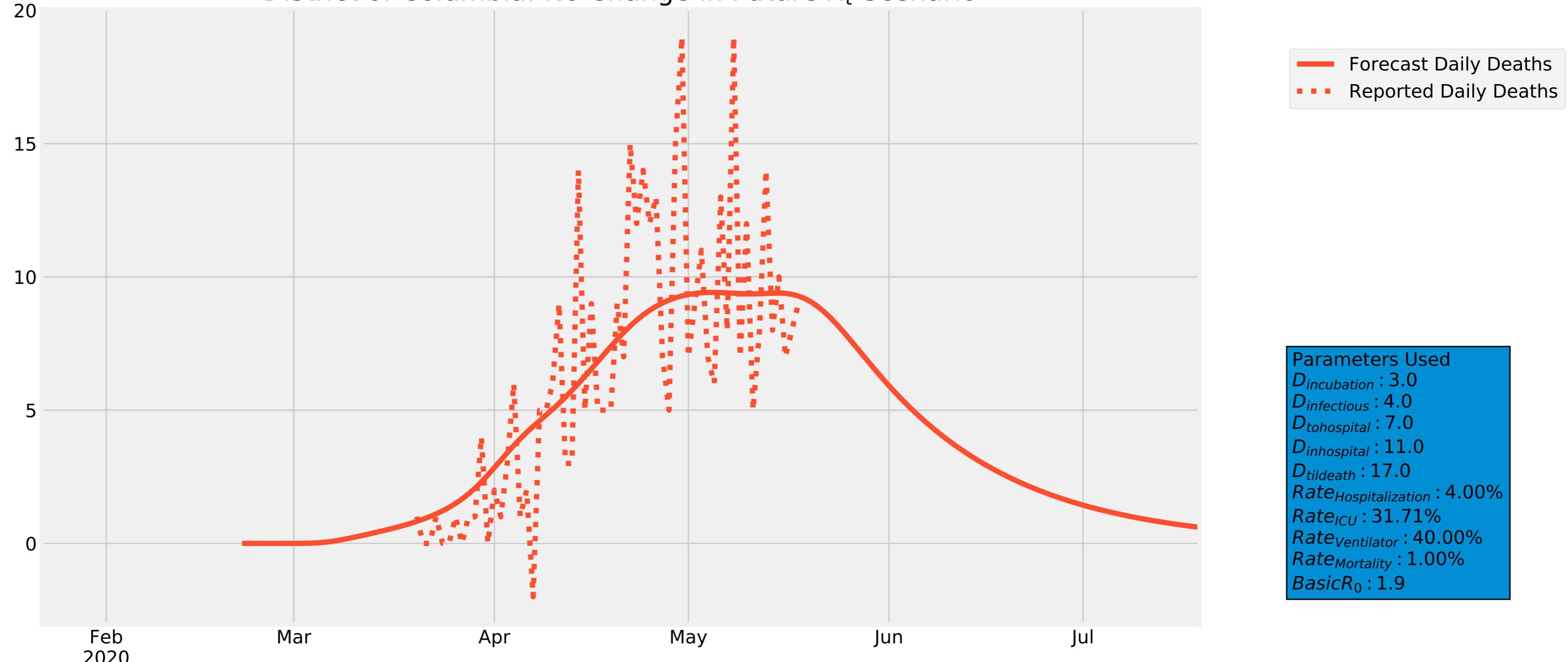


Parameters Used

$D_{incubation}$: 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%
 $BasicR_0$: 1.9

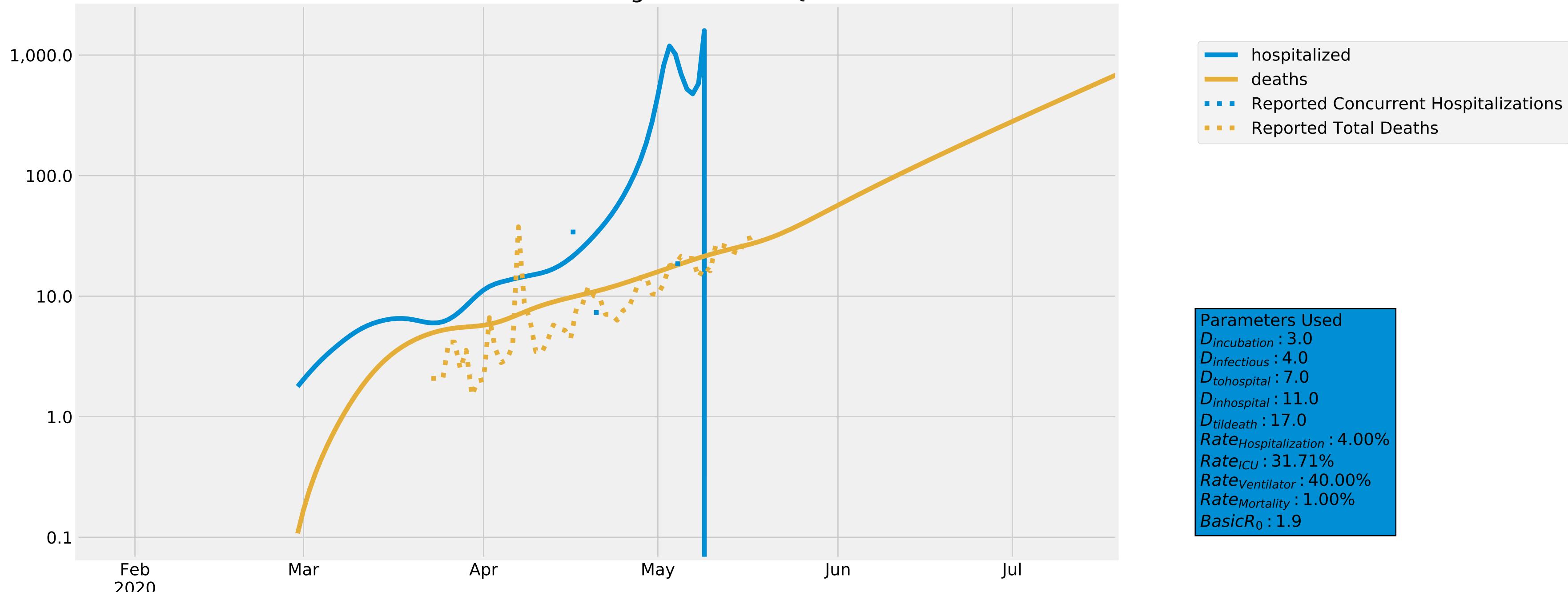
Daily Deaths Forecast

District of Columbia: No Change in Future R_t Scenario



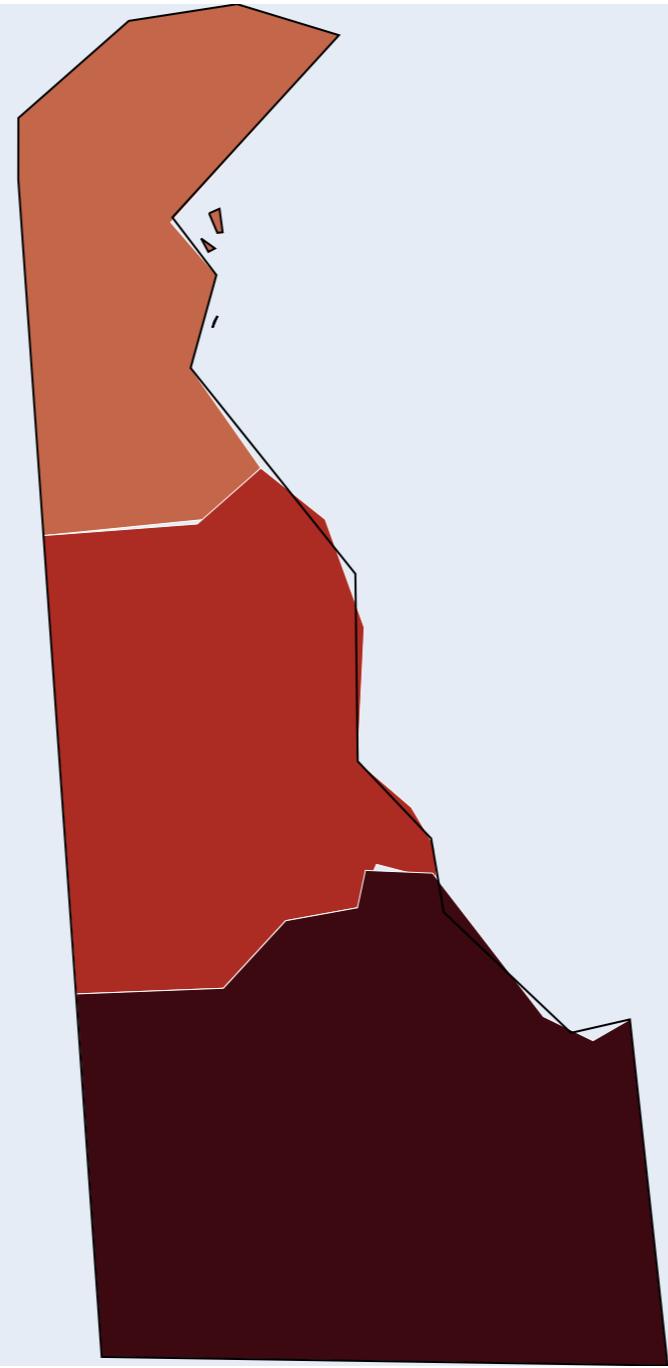
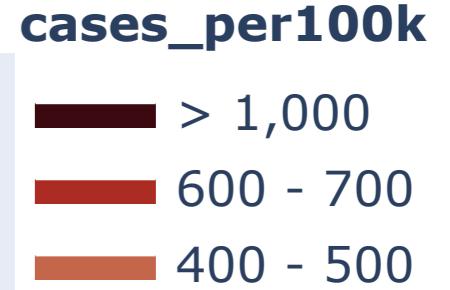
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast District of Columbia: No Change in Future R_t Scenario



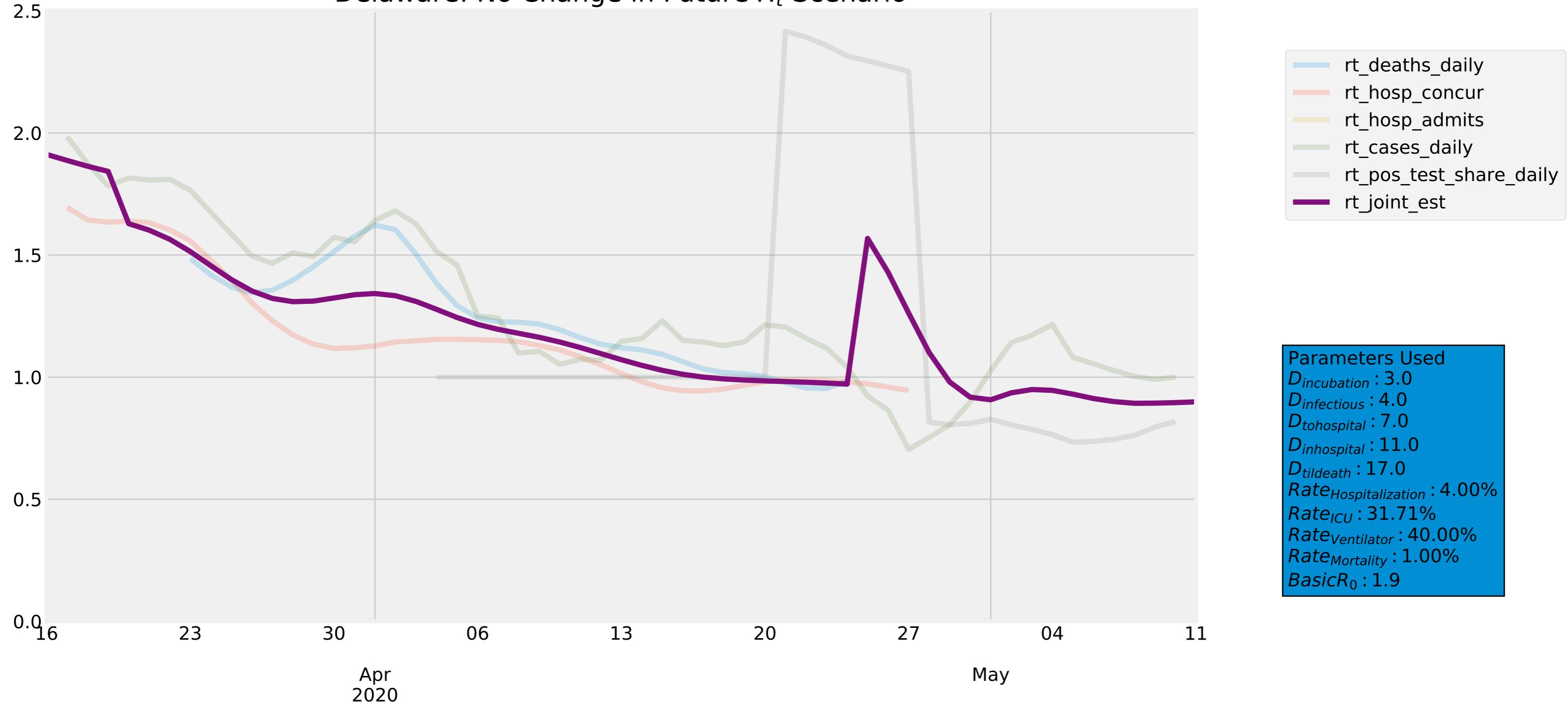
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Delaware: COVID-19 Cases Per 100k Residents



Reproduction Rate (R_t) Estimates

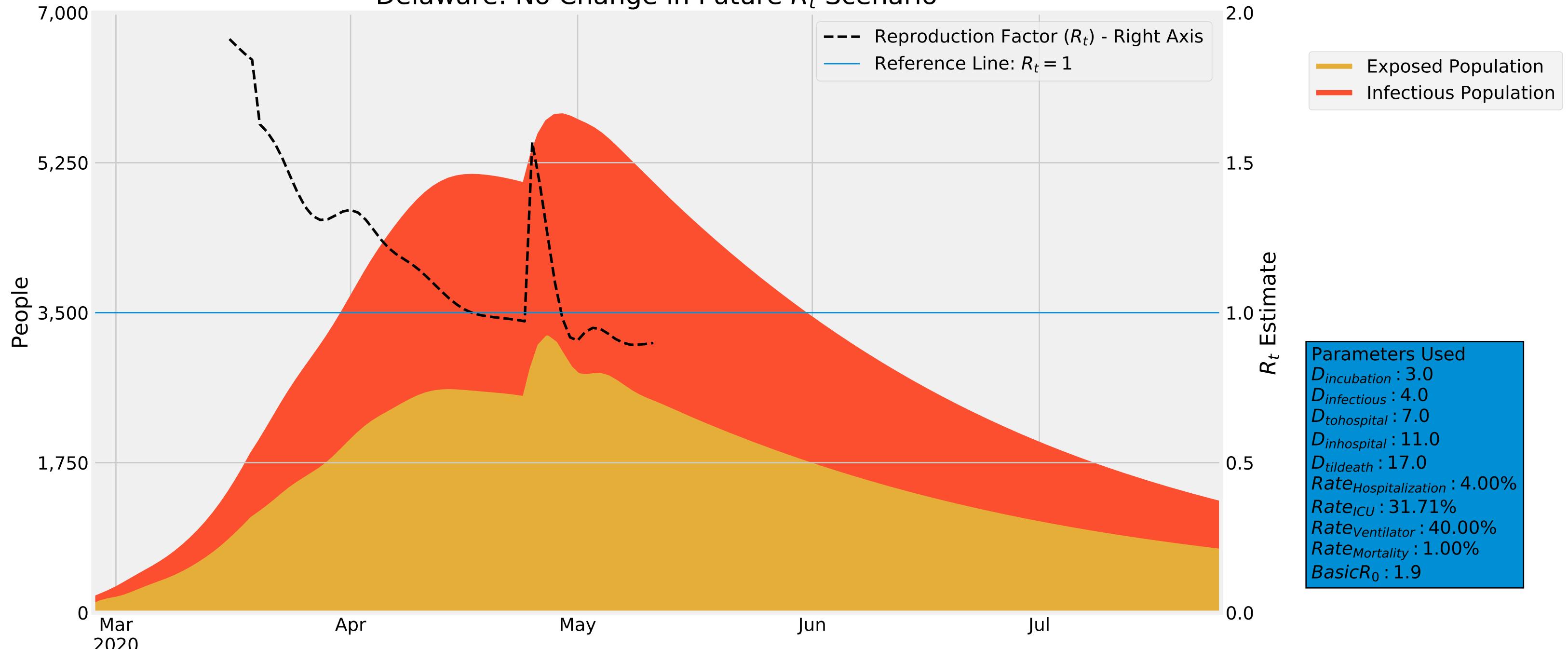
Delaware: No Change in Future R_t Scenario



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

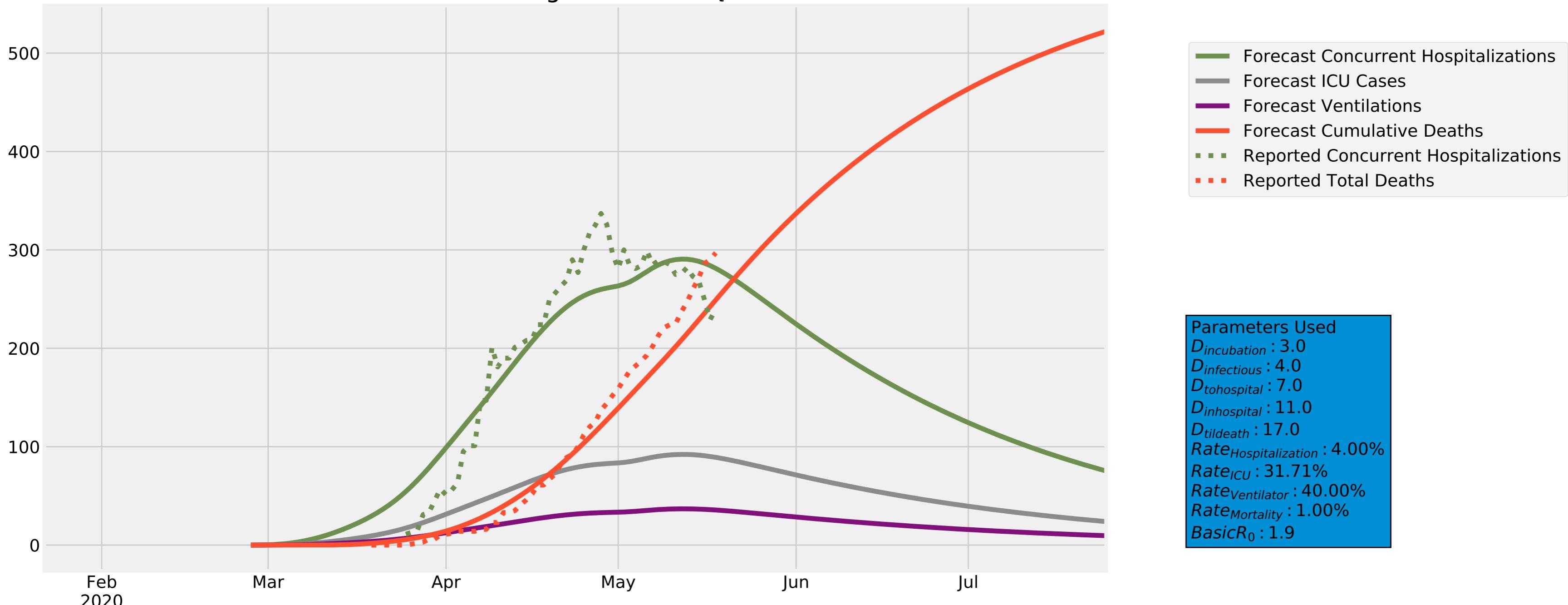
Simultaneous Infections Forecast

Delaware: No Change in Future R_t Scenario



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

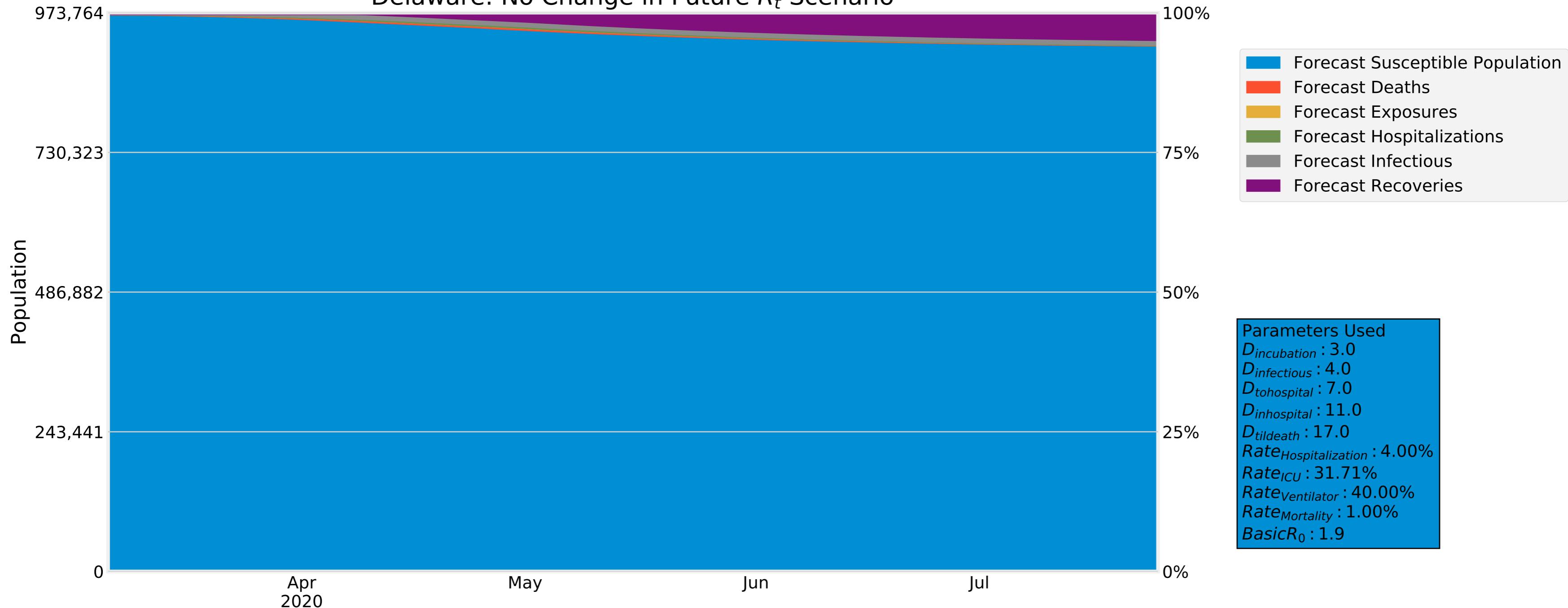
Hospitalization and Deaths Forecast Delaware: No Change in Future R_t Scenario



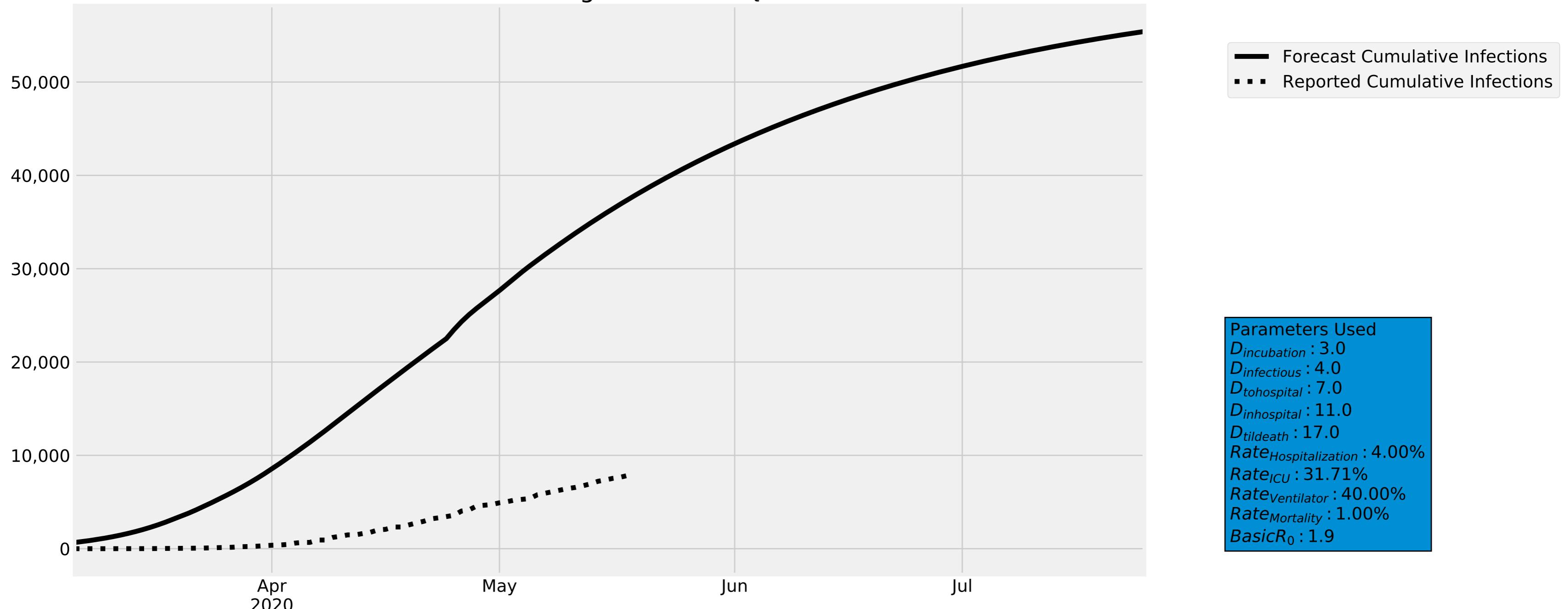
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

Delaware: No Change in Future R_t Scenario



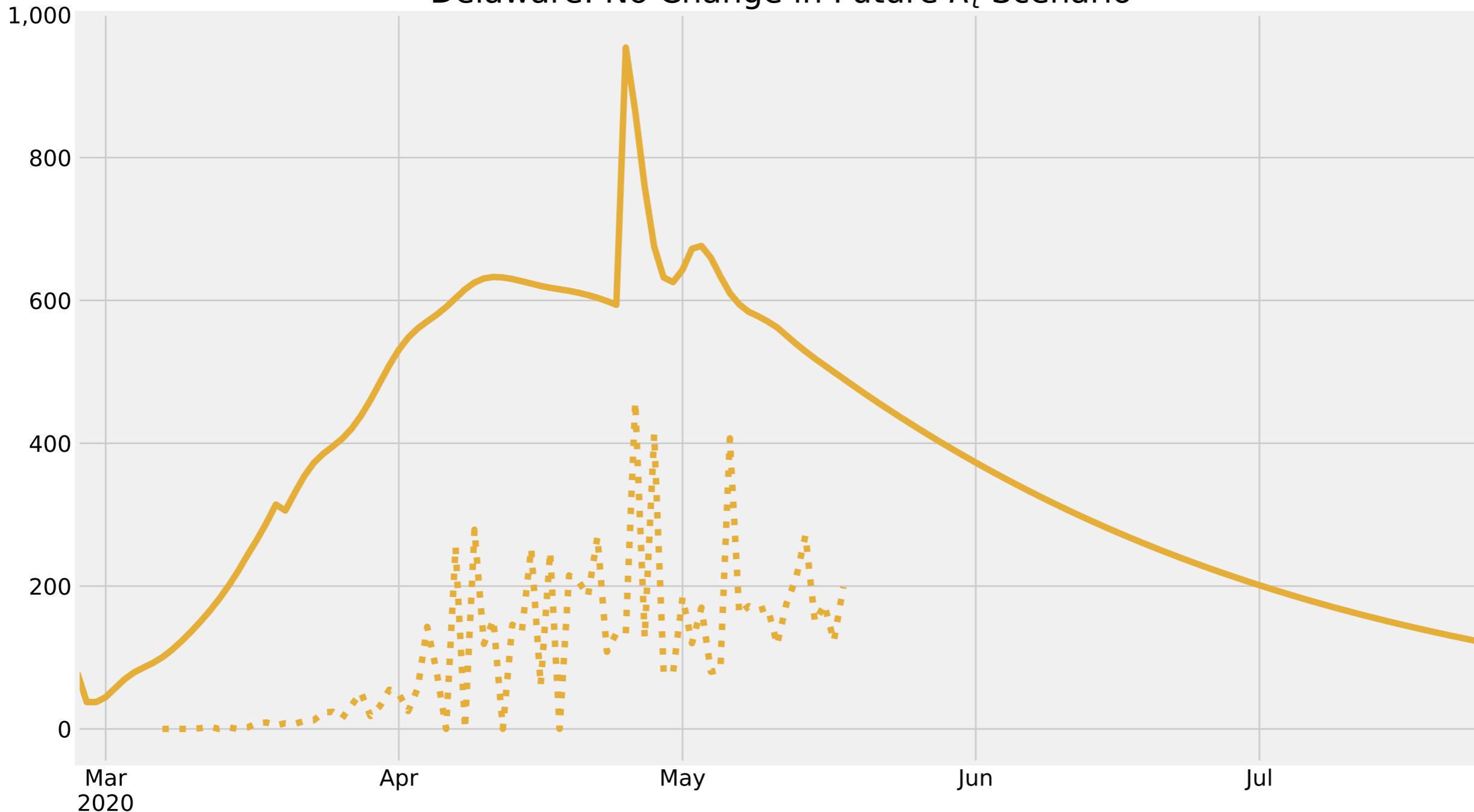
Cumulative Infections Forecast Delaware: No Change in Future R_t Scenario



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%
$BasicR_0$: 1.9

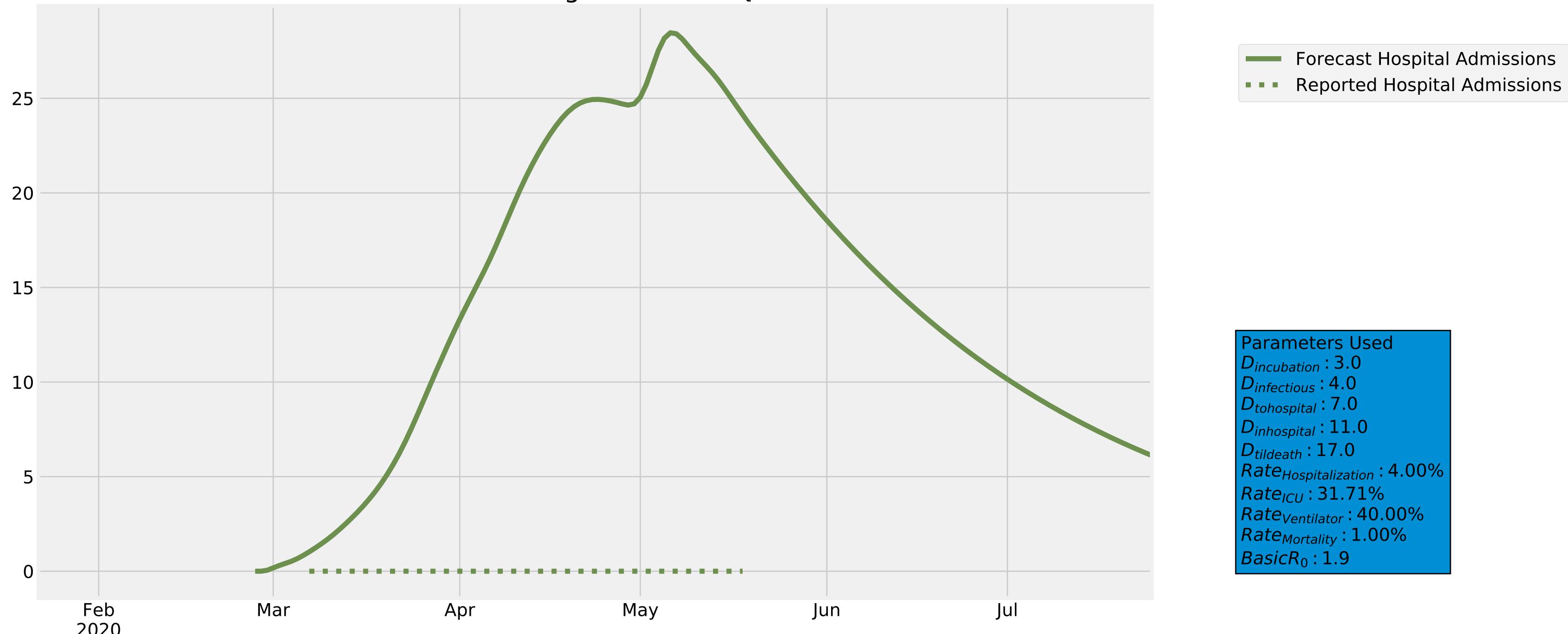
Daily Exposures Forecast Delaware: No Change in Future R_t Scenario



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

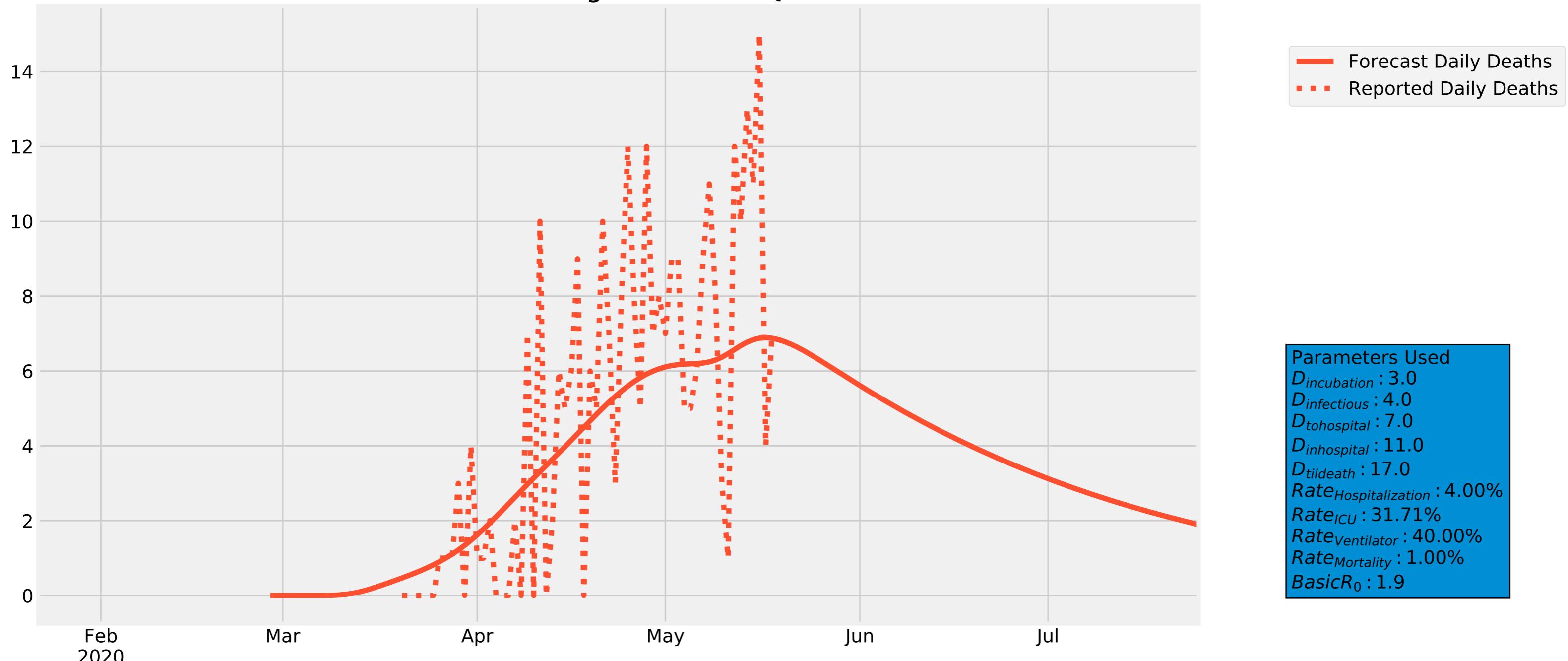
Parameters Used
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 $D_{infectious} : 4.0$
 $D_{tohospital} : 7.0$
 $D_{inhospital} : 11.0$
 $D_{tildeath} : 17.0$
 $Rate_{Hospitalization} : 4.00\%$
 $Rate_{ICU} : 31.71\%$
 $Rate_{Ventilator} : 40.00\%$
 $Rate_{Mortality} : 1.00\%$
 $BasicR_0 : 1.9$

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



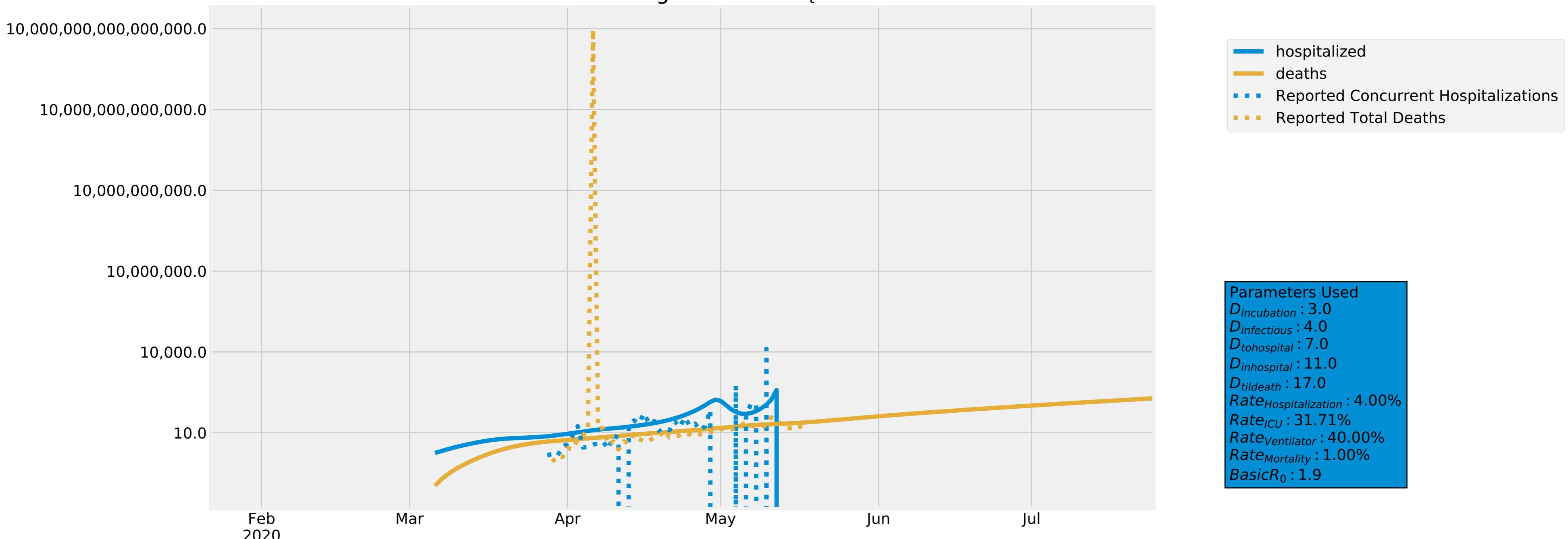
Parameters Used
 $D_{incubation} : 3.0$
 $D_{infectious} : 4.0$
 $D_{tohospital} : 7.0$
 $D_{inhospital} : 11.0$
 $D_{tildeath} : 17.0$
 $Rate_{Hospitalization} : 4.00\%$
 $Rate_{ICU} : 31.71\%$
 $Rate_{Ventilator} : 40.00\%$
 $Rate_{Mortality} : 1.00\%$
 $BasicR_0 : 1.9$

Daily Deaths Forecast Delaware: No Change in Future R_t Scenario



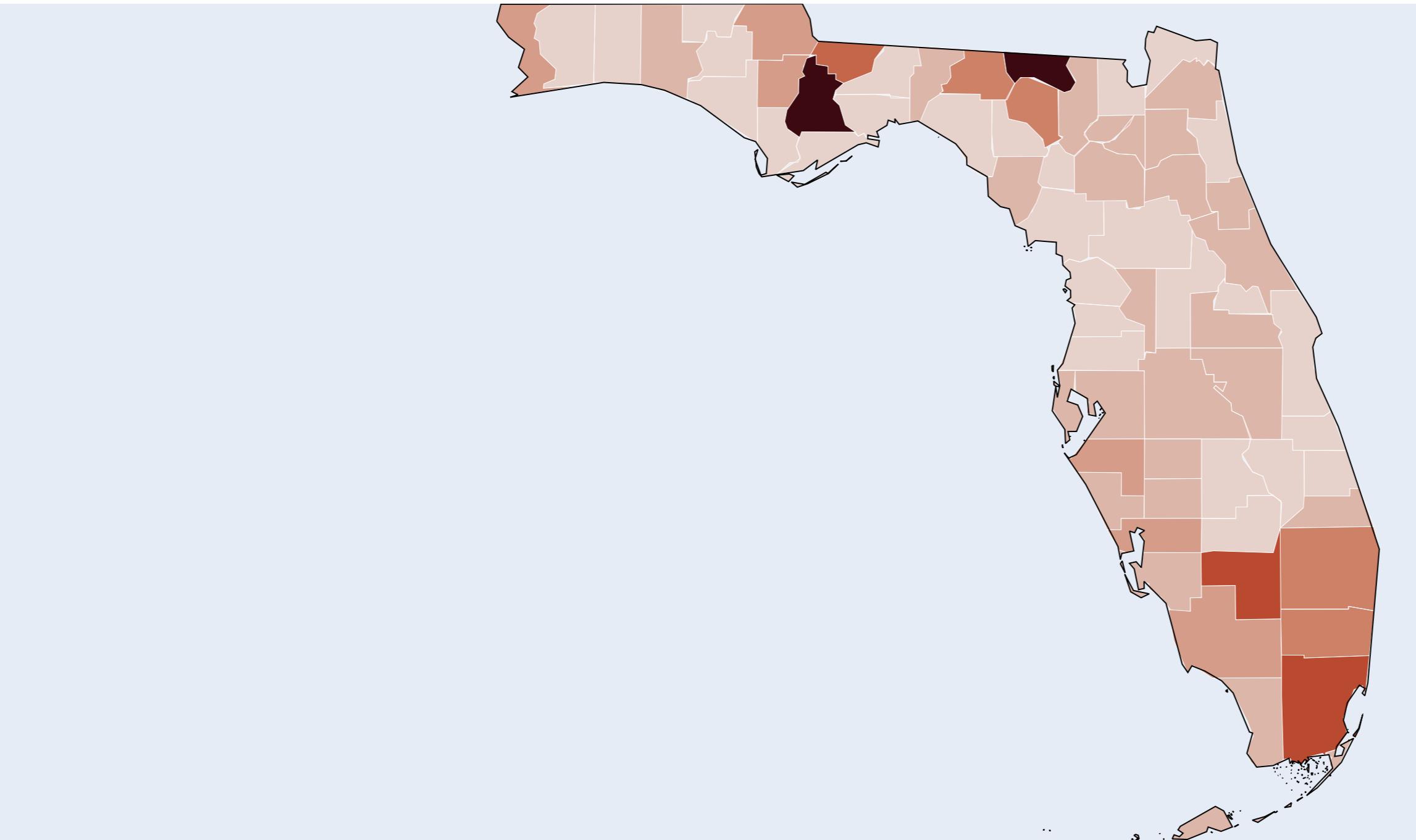
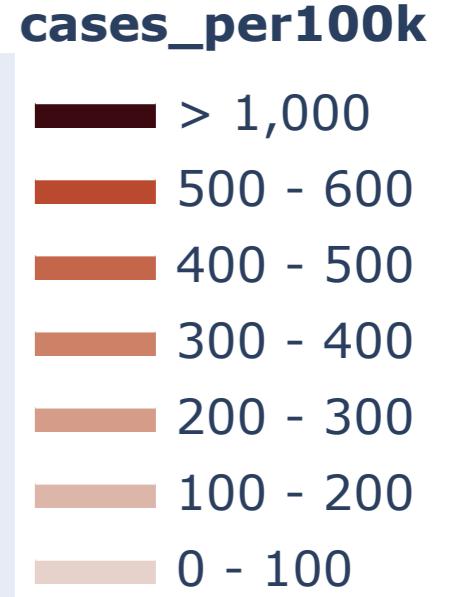
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Delaware: No Change in Future R_t Scenario

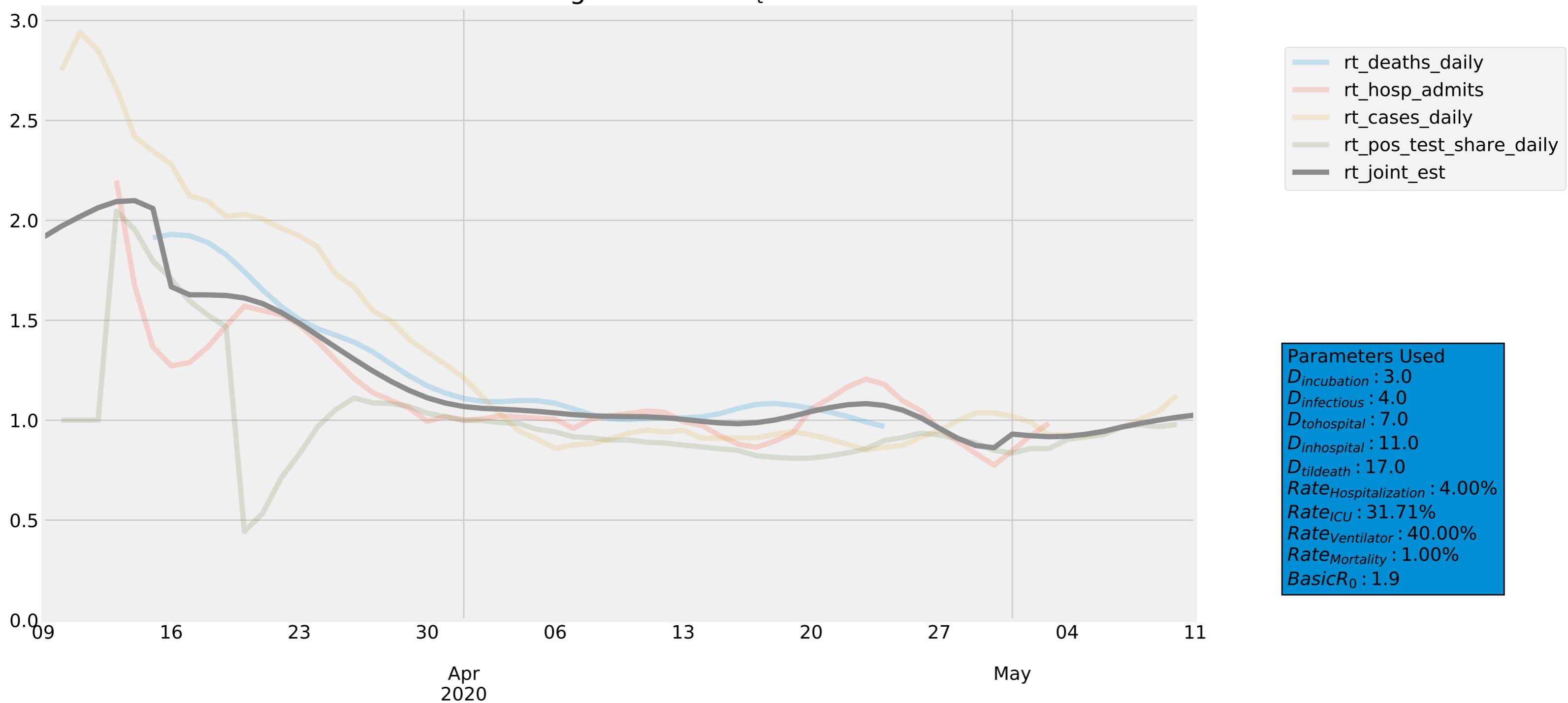


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Florida: COVID-19 Cases Per 100k Residents

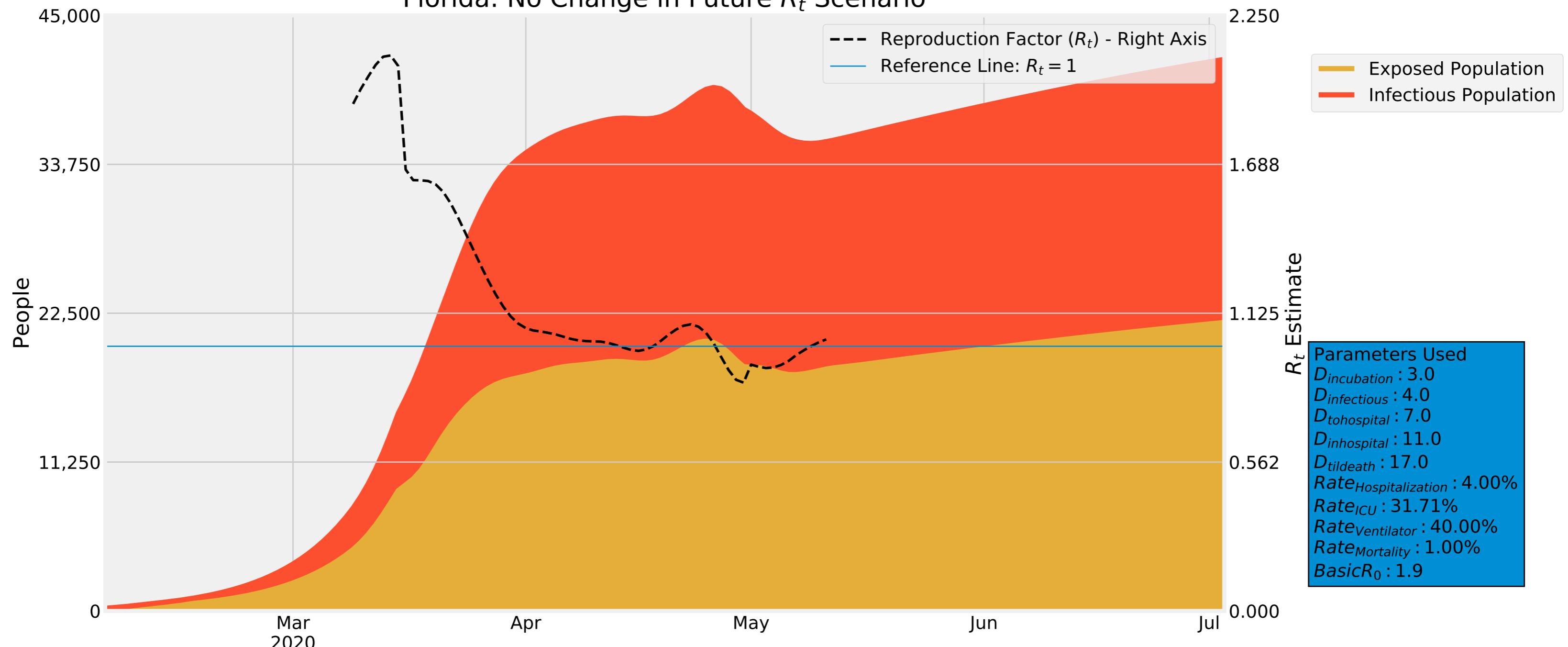


Reproduction Rate (R_t) Estimates Florida: No Change in Future R_t Scenario



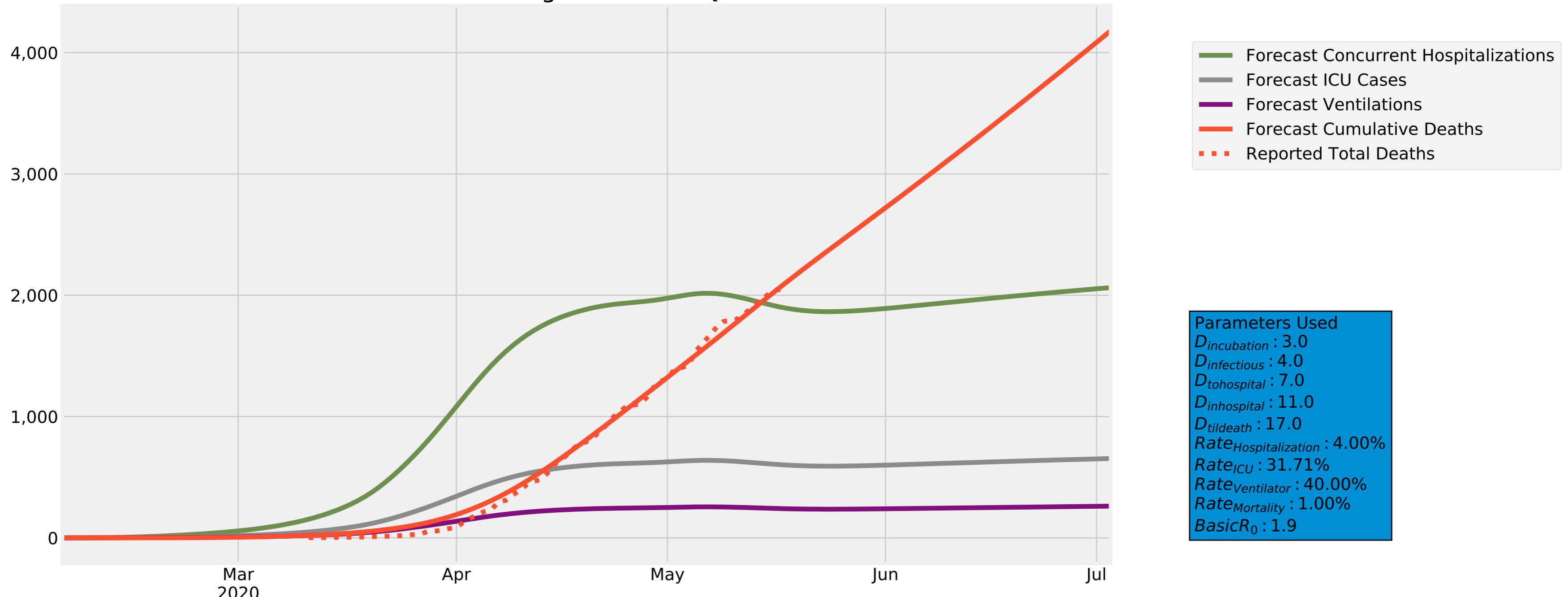
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Simultaneous Infections Forecast Florida: No Change in Future R_t Scenario



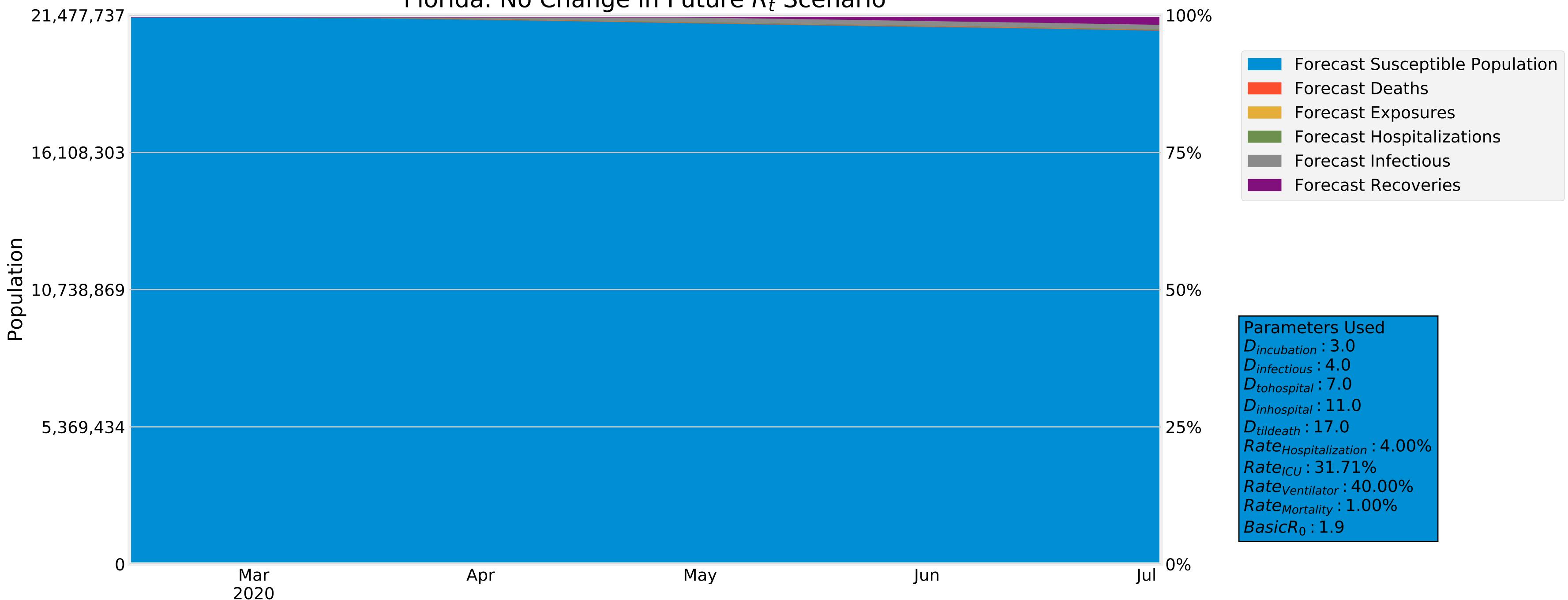
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

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

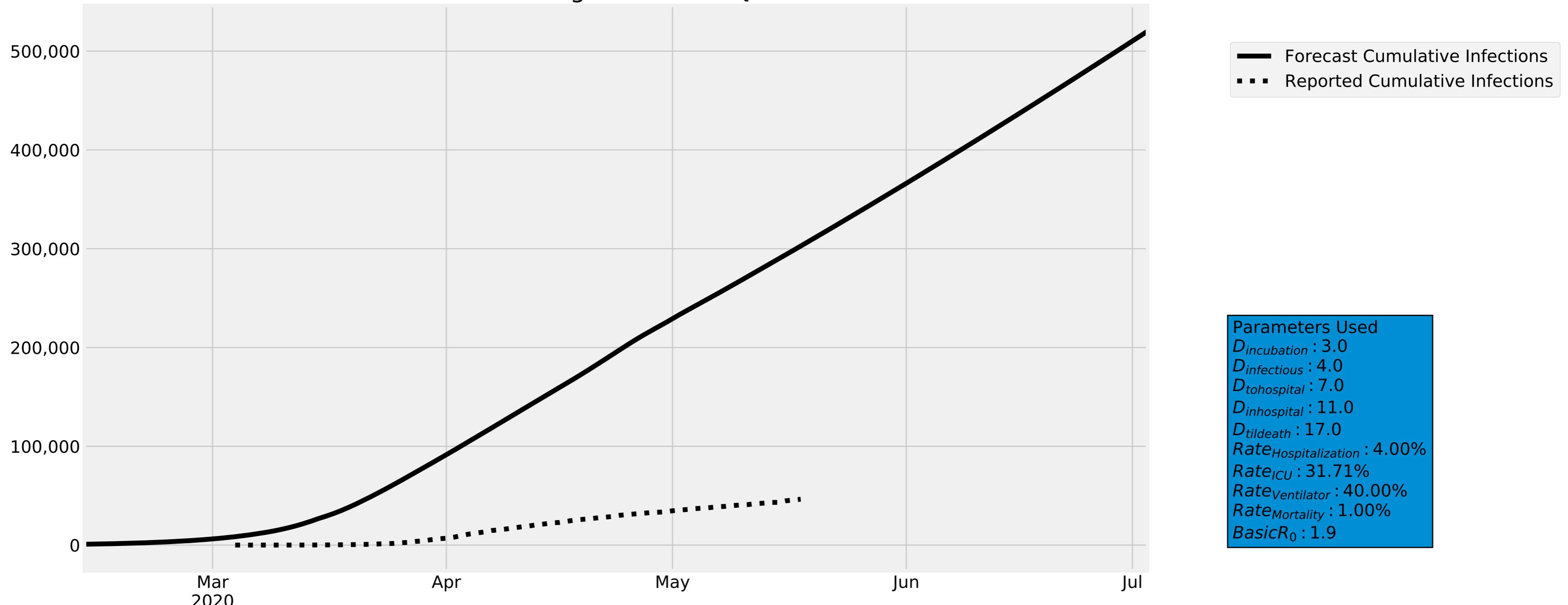


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast Florida: No Change in Future R_t Scenario



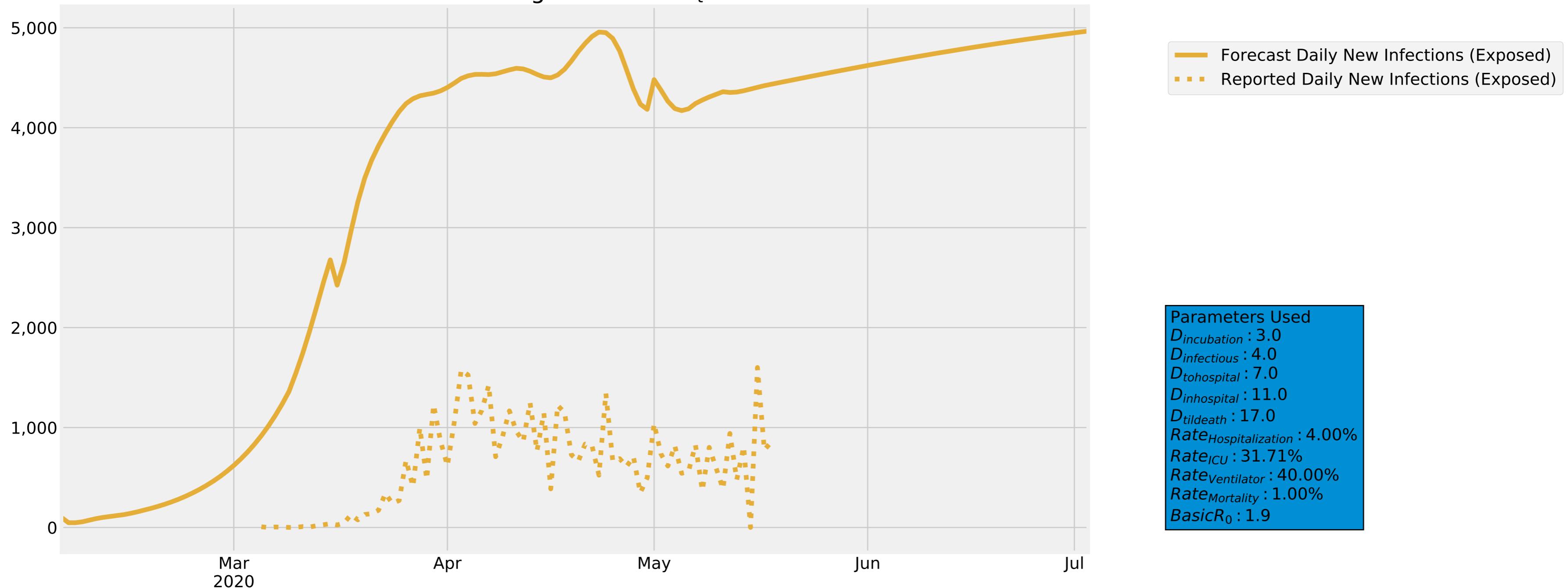
Cumulative Infections Forecast Florida: No Change in Future R_t Scenario



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%
 $BasicR_0$: 1.9

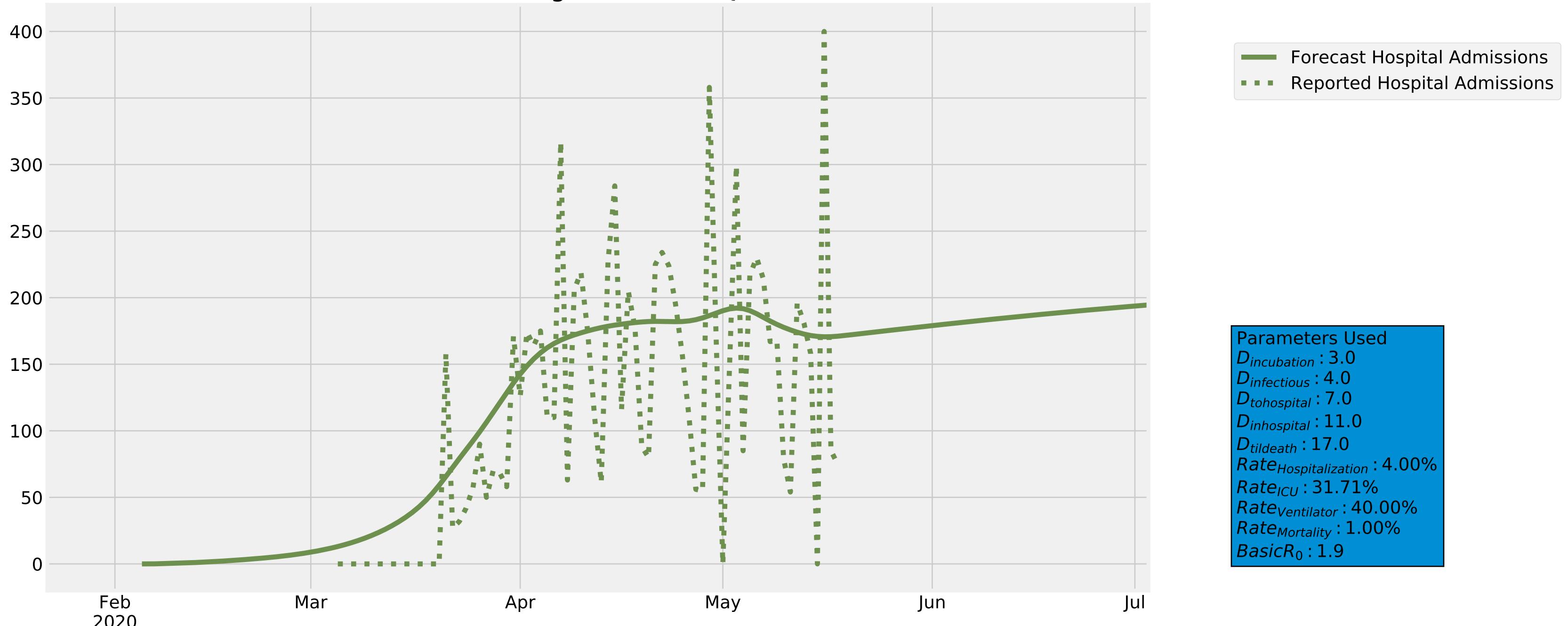
Daily Exposures Forecast Florida: No Change in Future R_t Scenario



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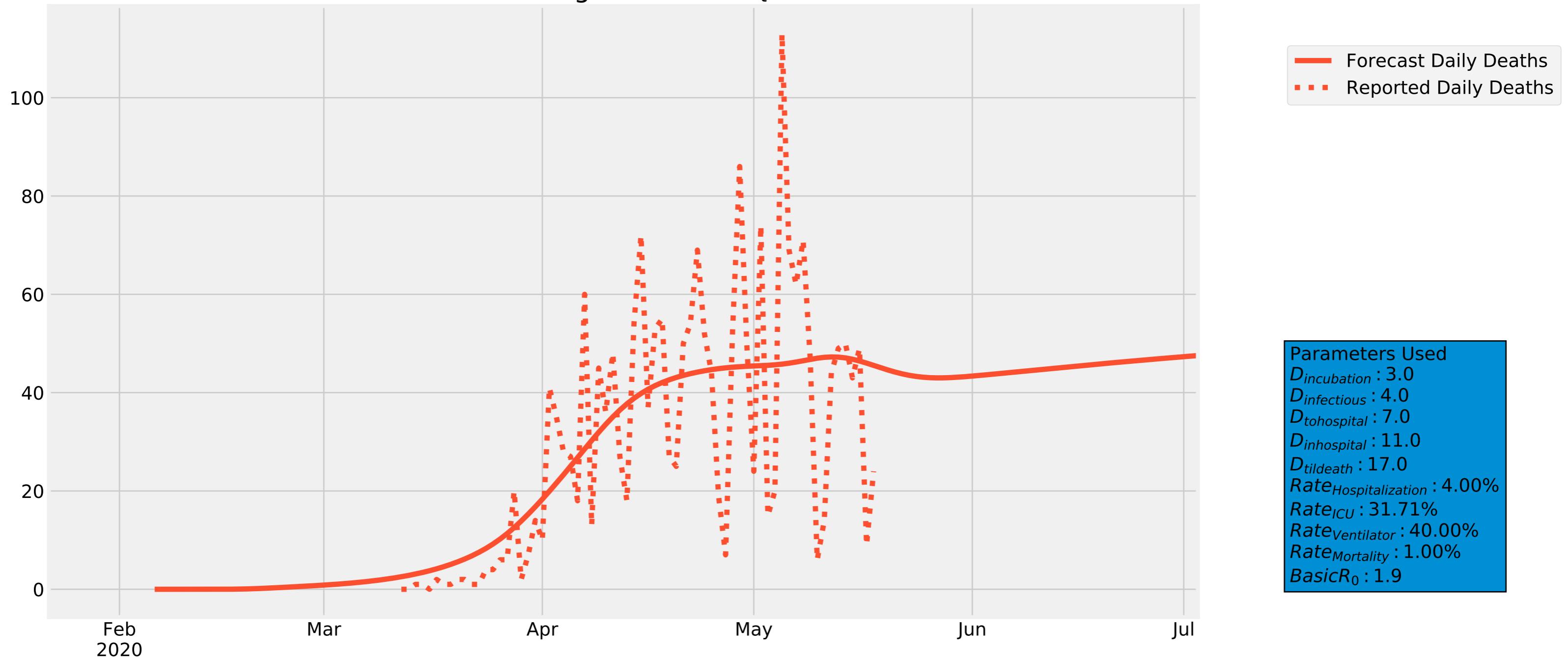
Daily Hospital Admissions Forecast Florida: No Change in Future R_t Scenario



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

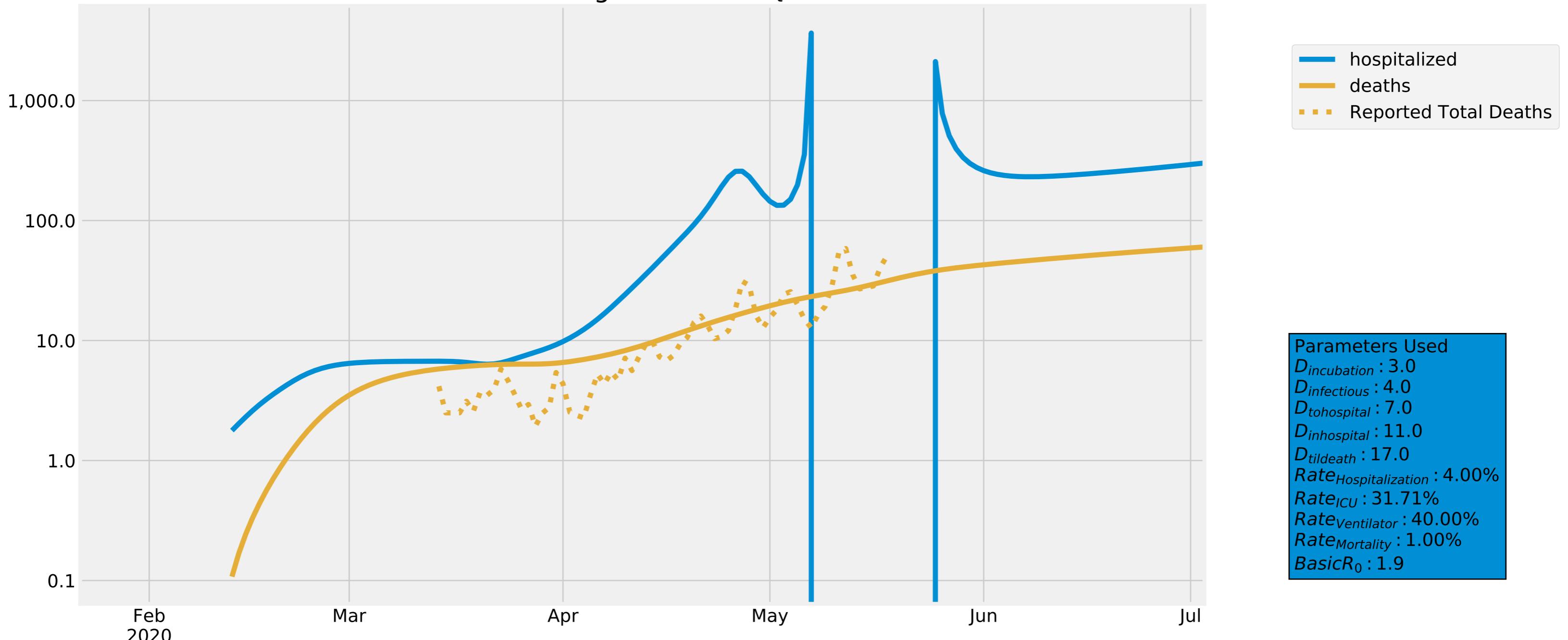
Daily Deaths Forecast

Florida: No Change in Future R_t Scenario



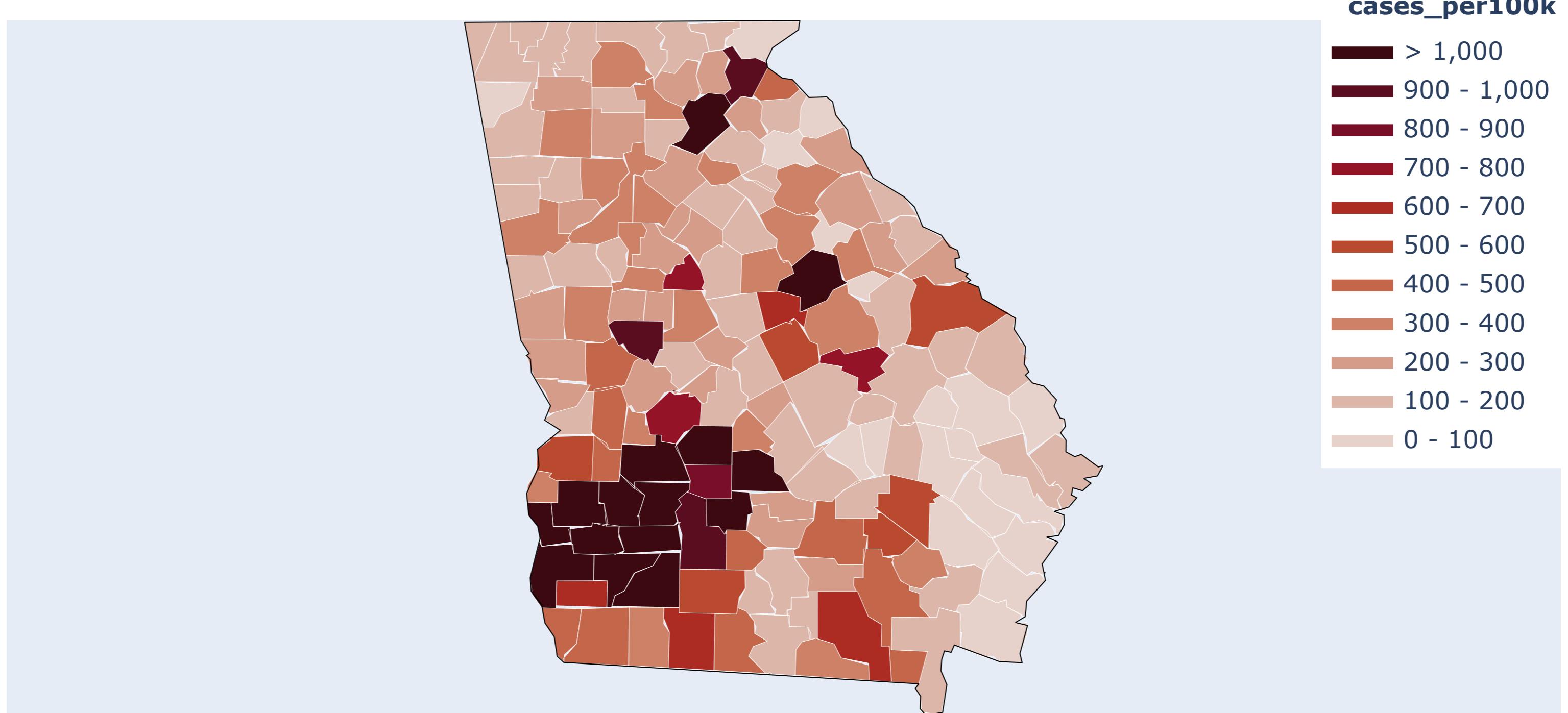
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Florida: No Change in Future R_t Scenario

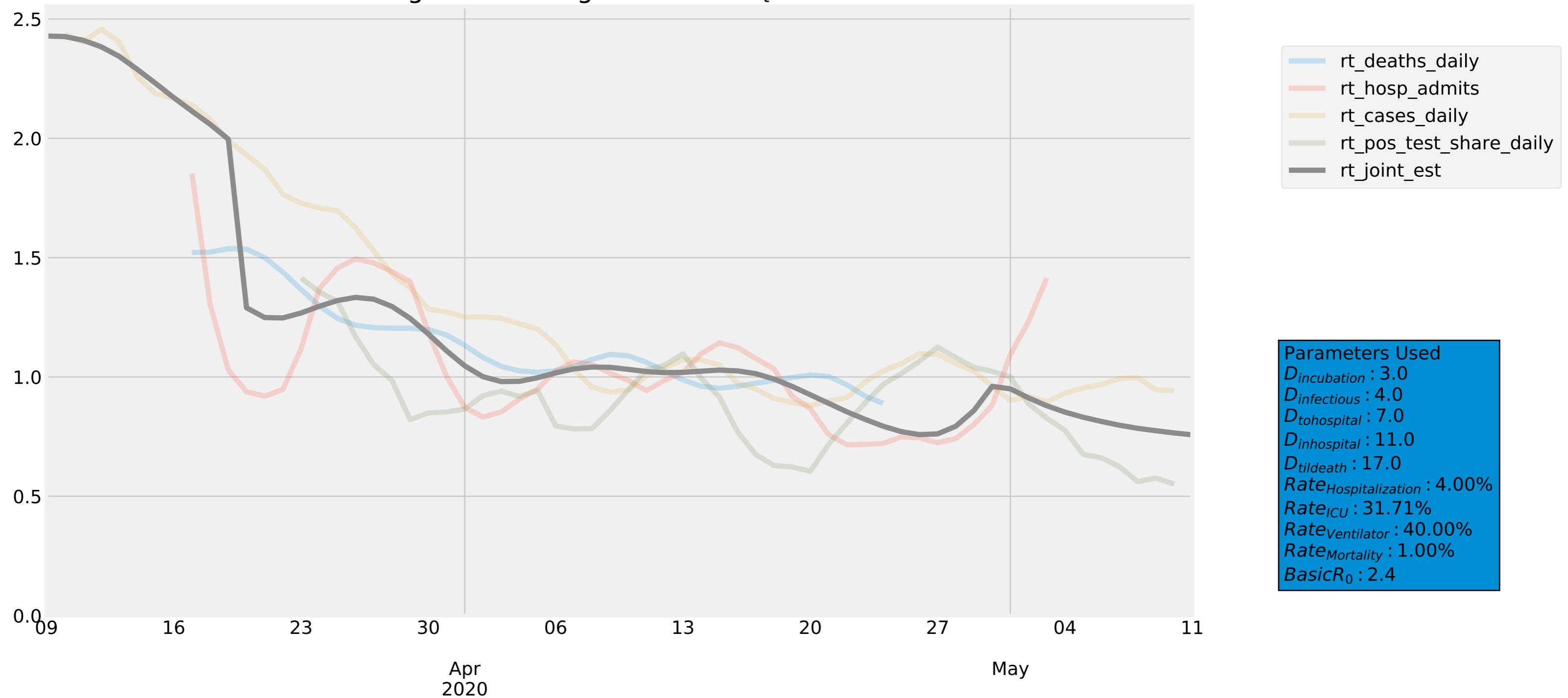


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Georgia: COVID-19 Cases Per 100k Residents



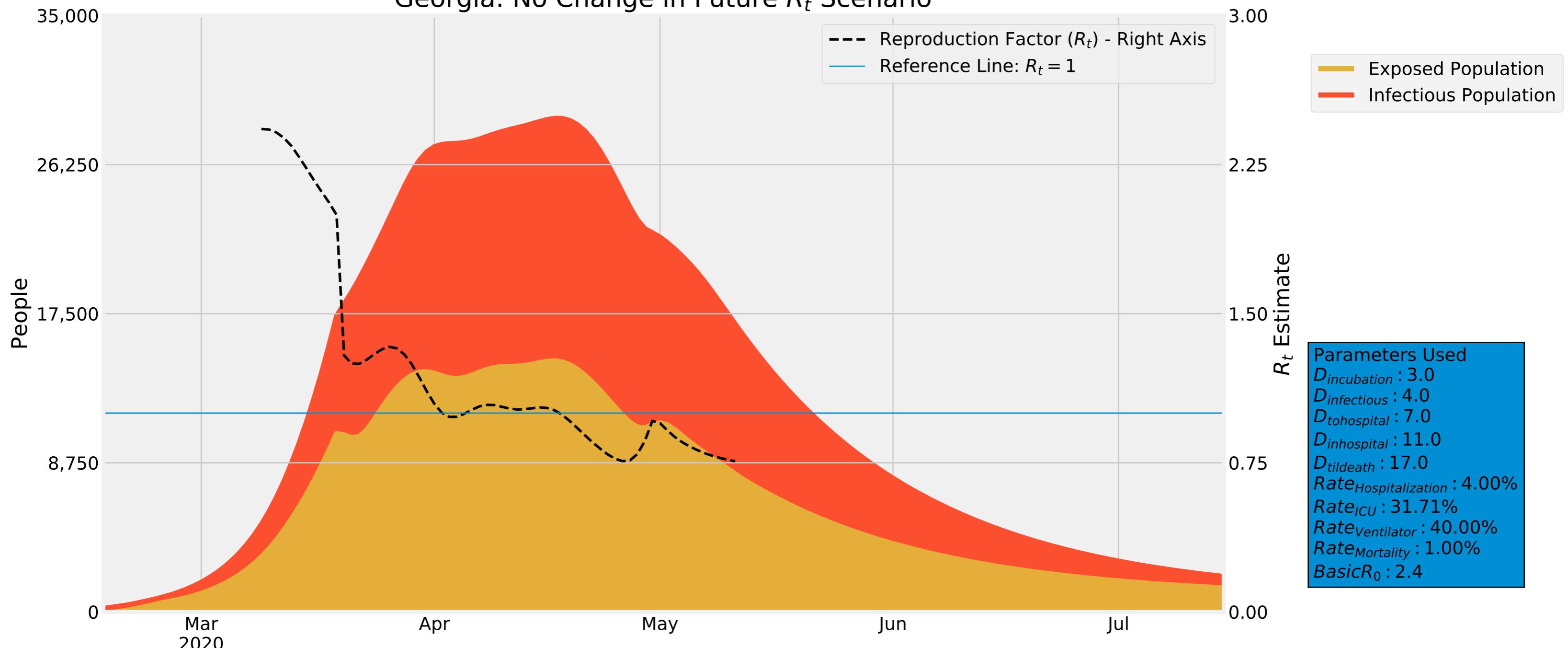
Reproduction Rate (R_t) Estimates Georgia: No Change in Future R_t Scenario



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

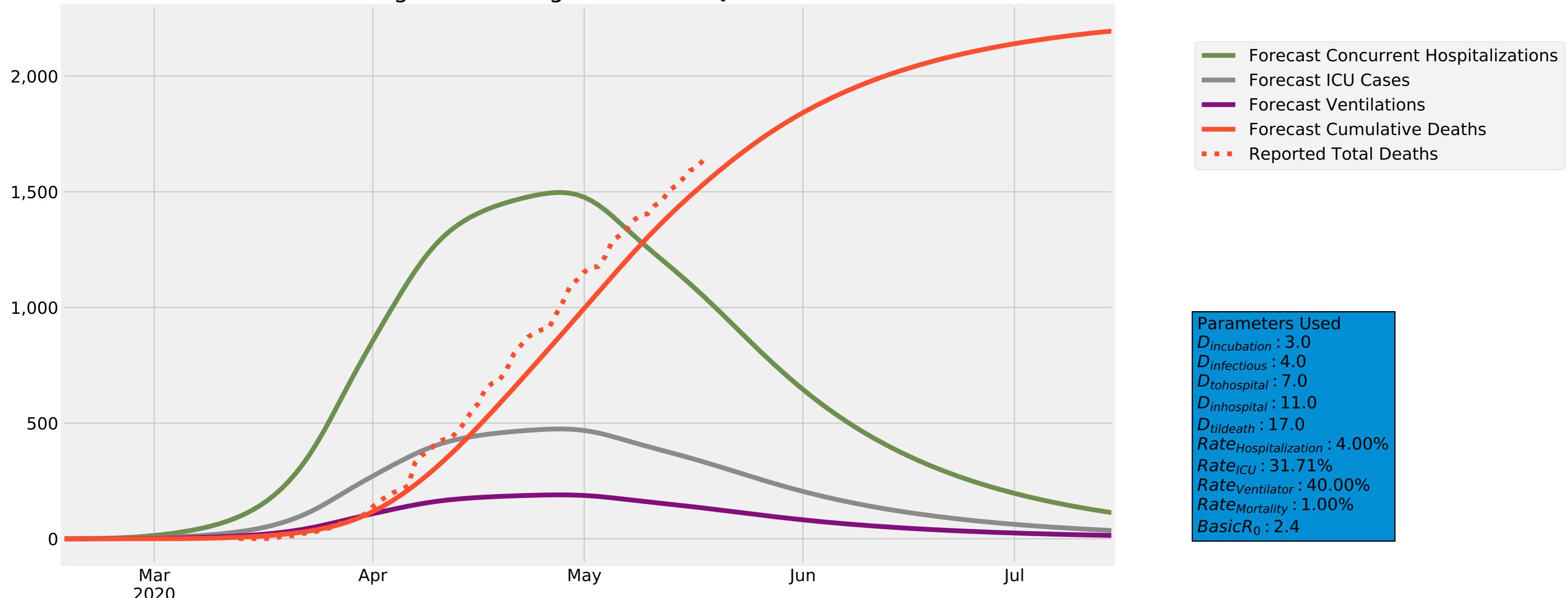
Simultaneous Infections Forecast

Georgia: No Change in Future R_t Scenario



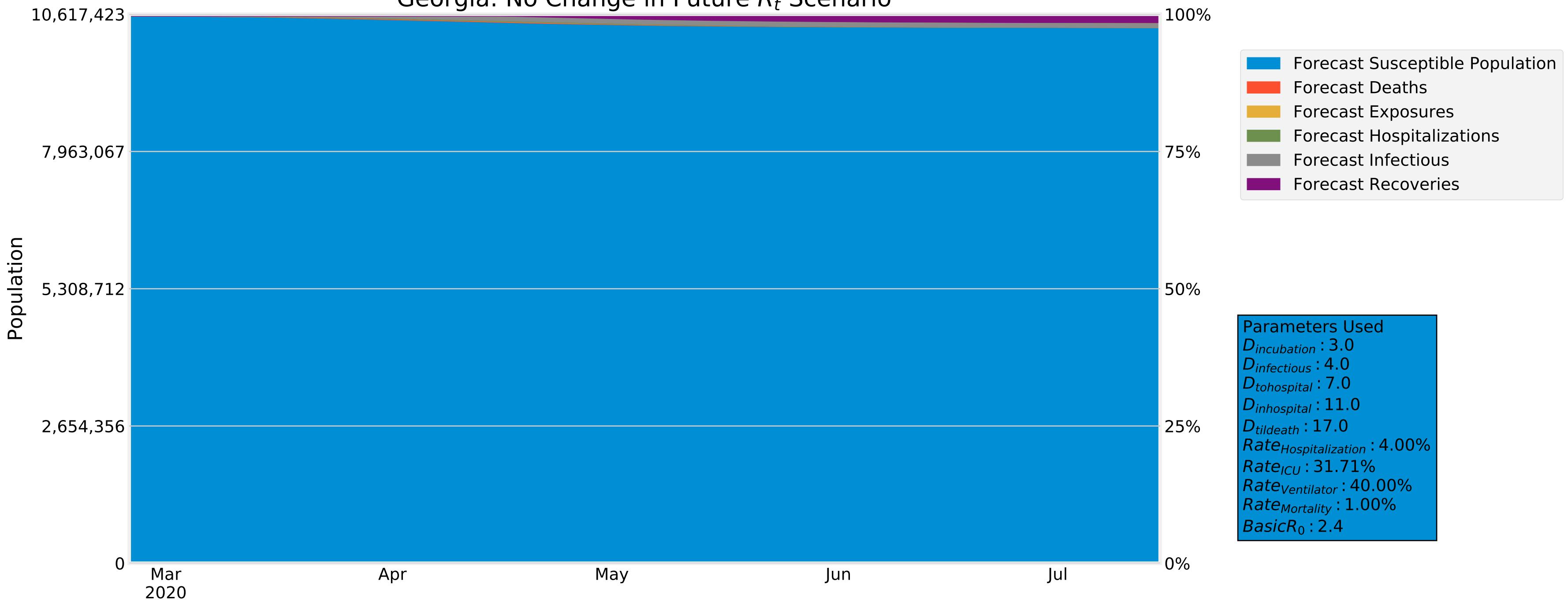
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

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

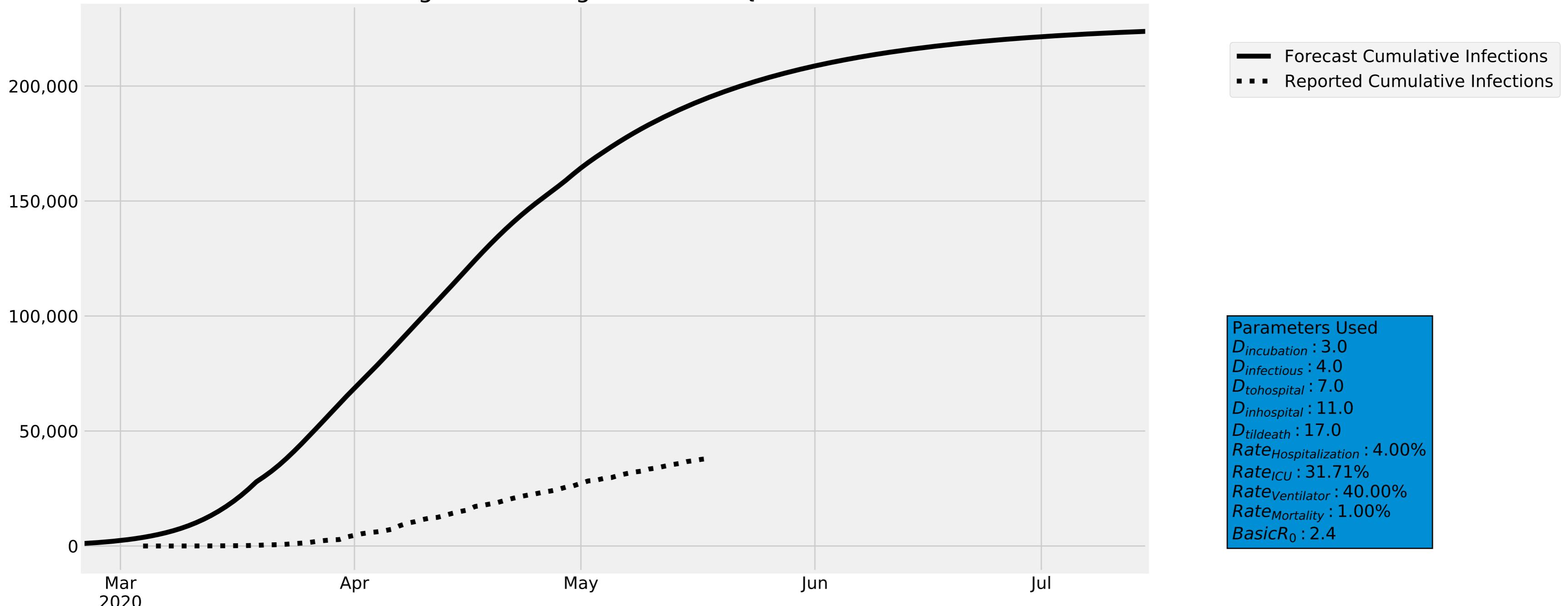


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast Georgia: No Change in Future R_t Scenario



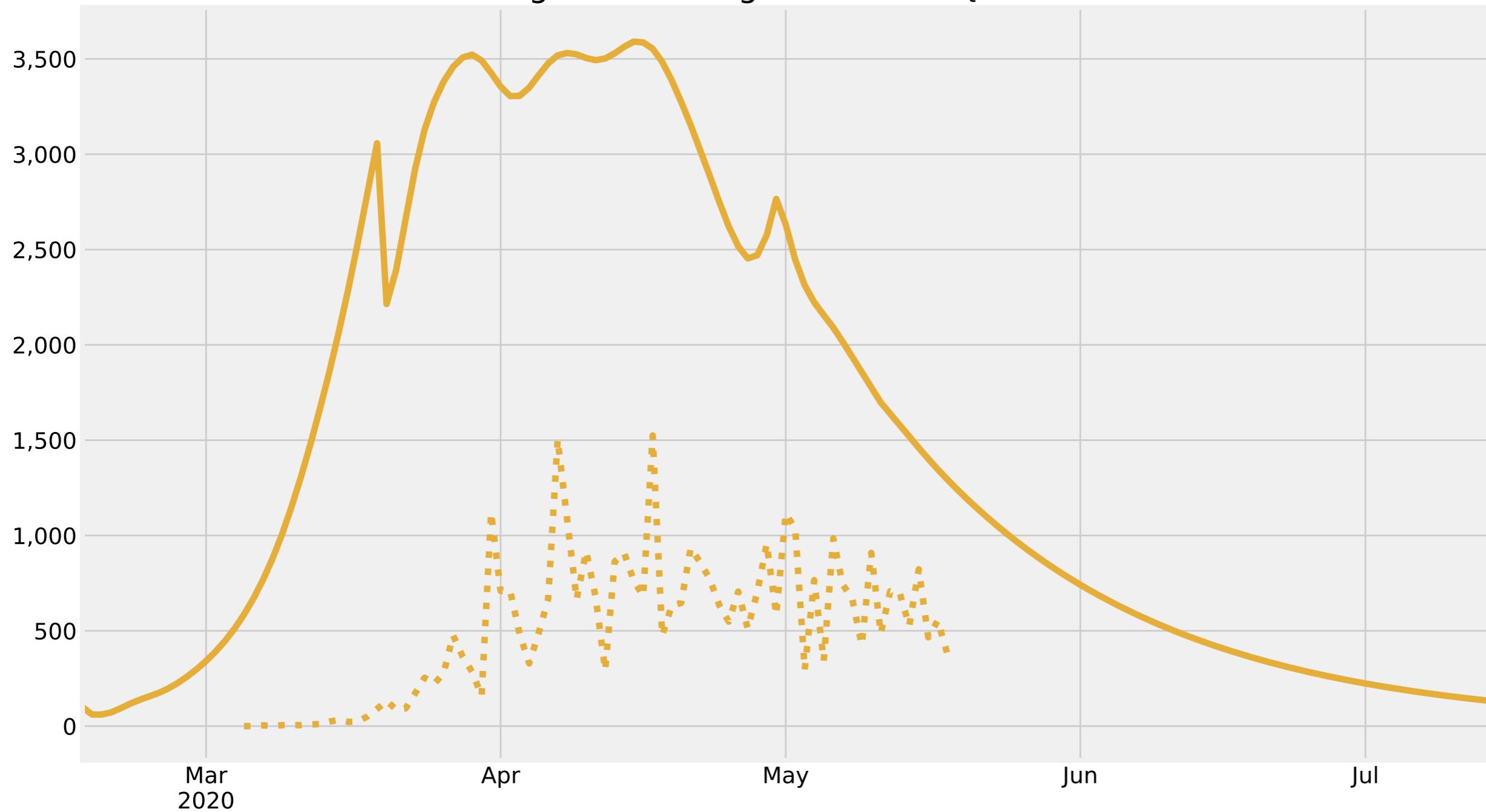
Cumulative Infections Forecast Georgia: No Change in Future R_t Scenario



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%
- $BasicR_0$: 2.4

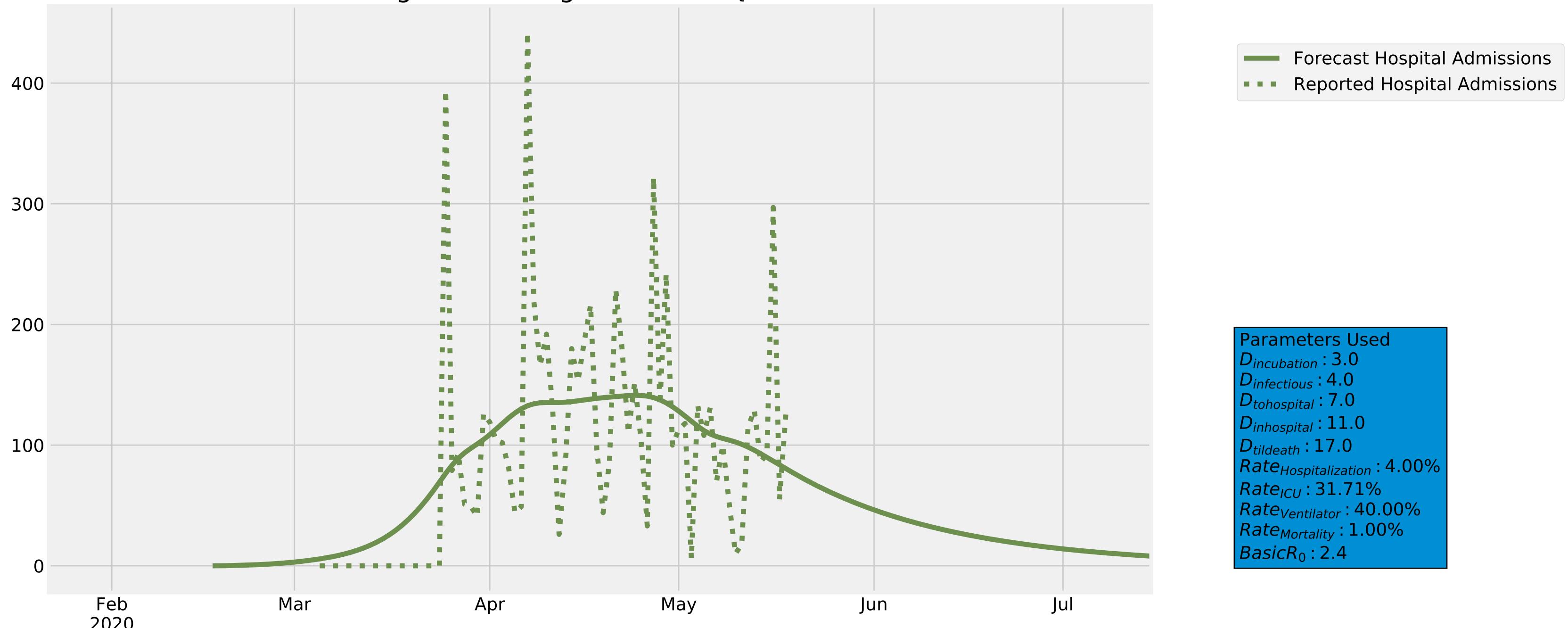
Daily Exposures Forecast Georgia: No Change in Future R_t Scenario



Parameters Used

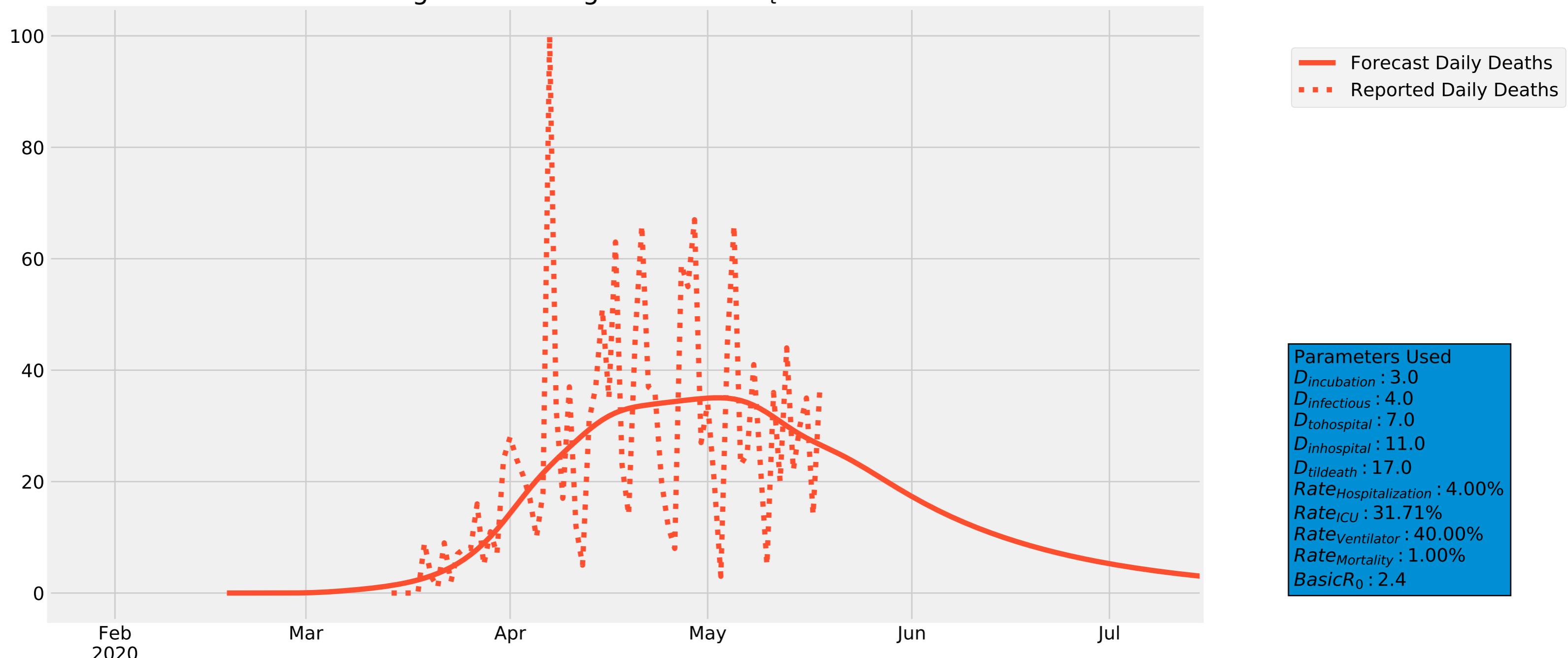
$D_{incubation}$: 3.0
$D_{infectious}$: 4.0
$D_{tohospital}$: 7.0
$D_{inhospital}$: 11.0
$D_{tildeath}$: 17.0
Rate _{Hospitalization}	: 4.00%
Rate _{ICU}	: 31.71%
Rate _{Ventilator}	: 40.00%
Rate _{Mortality}	: 1.00%
Basic R_0	: 2.4

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



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

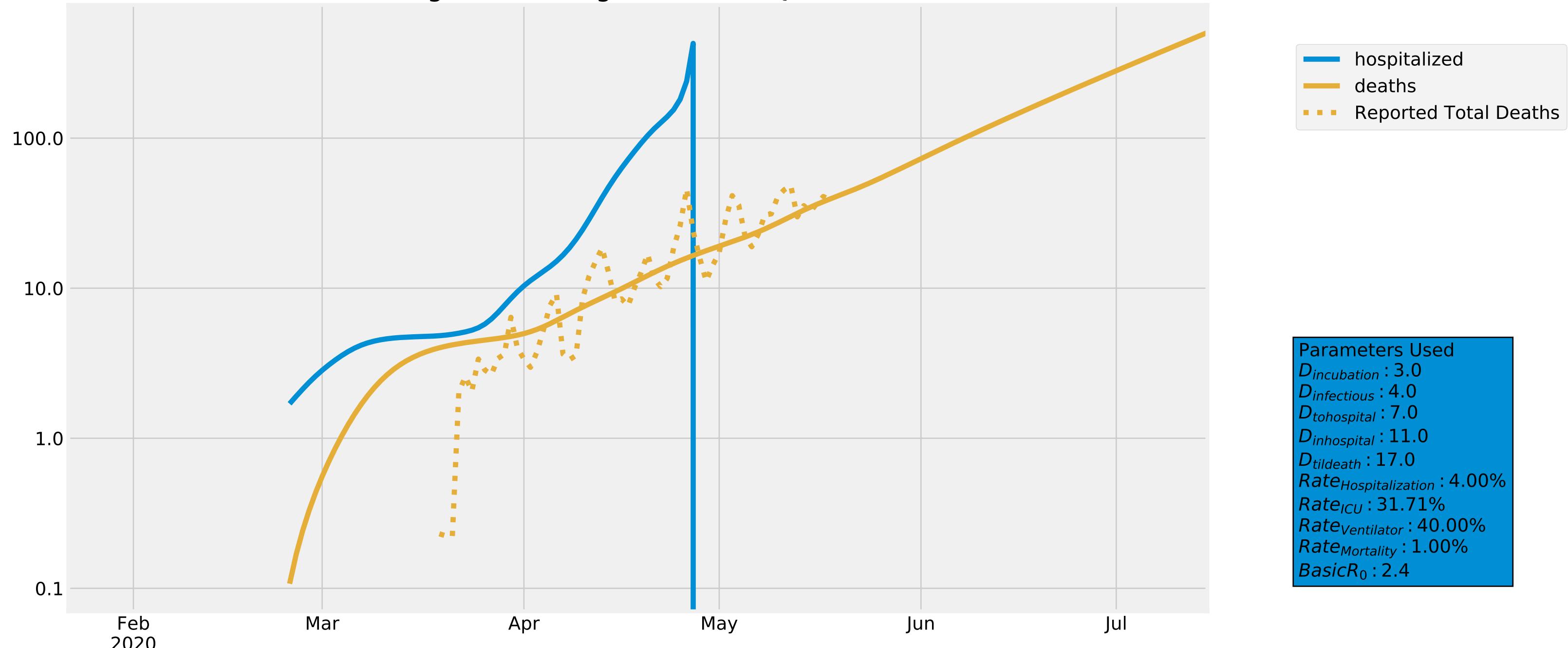
Daily Deaths Forecast Georgia: No Change in Future R_t Scenario



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%
Basic R_0	: 2.4

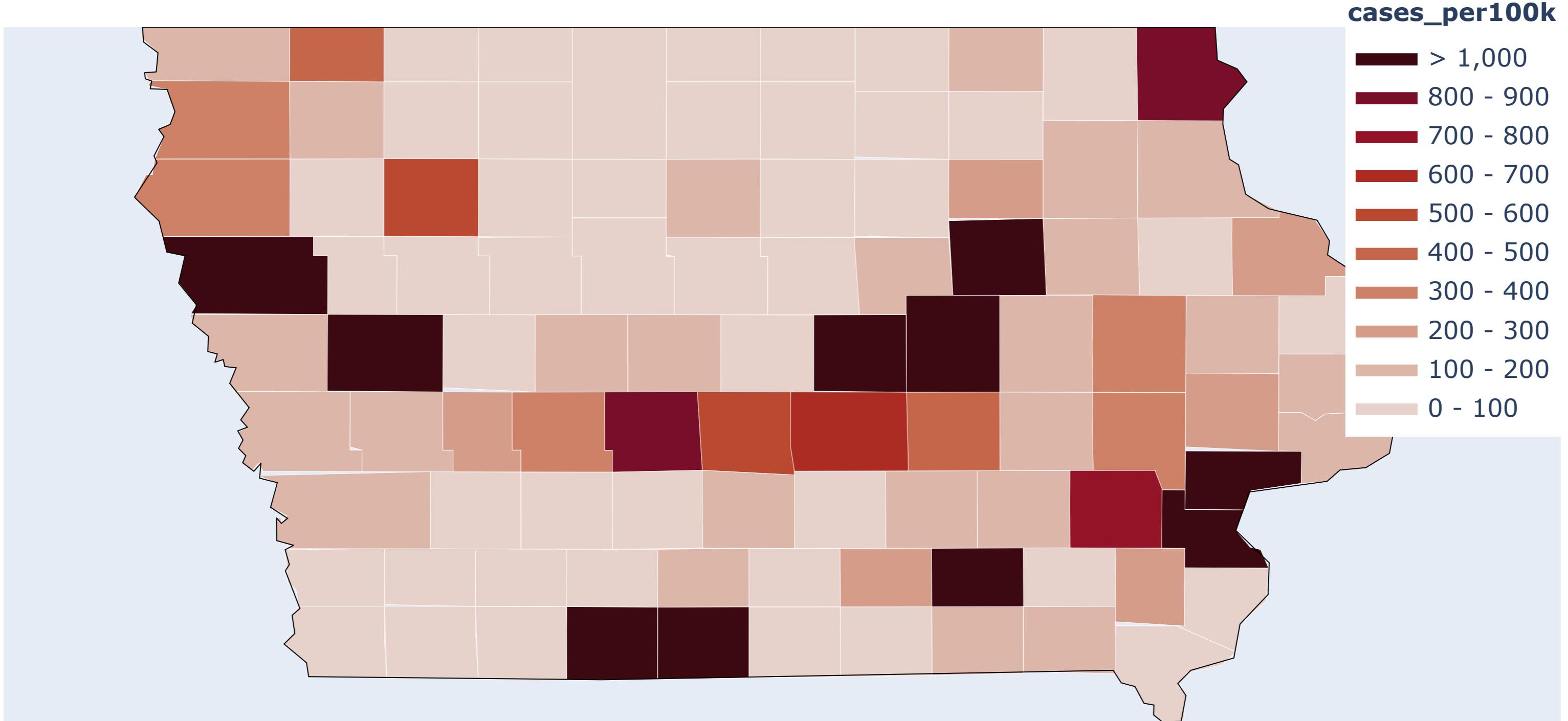
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Georgia: No Change in Future R_t Scenario

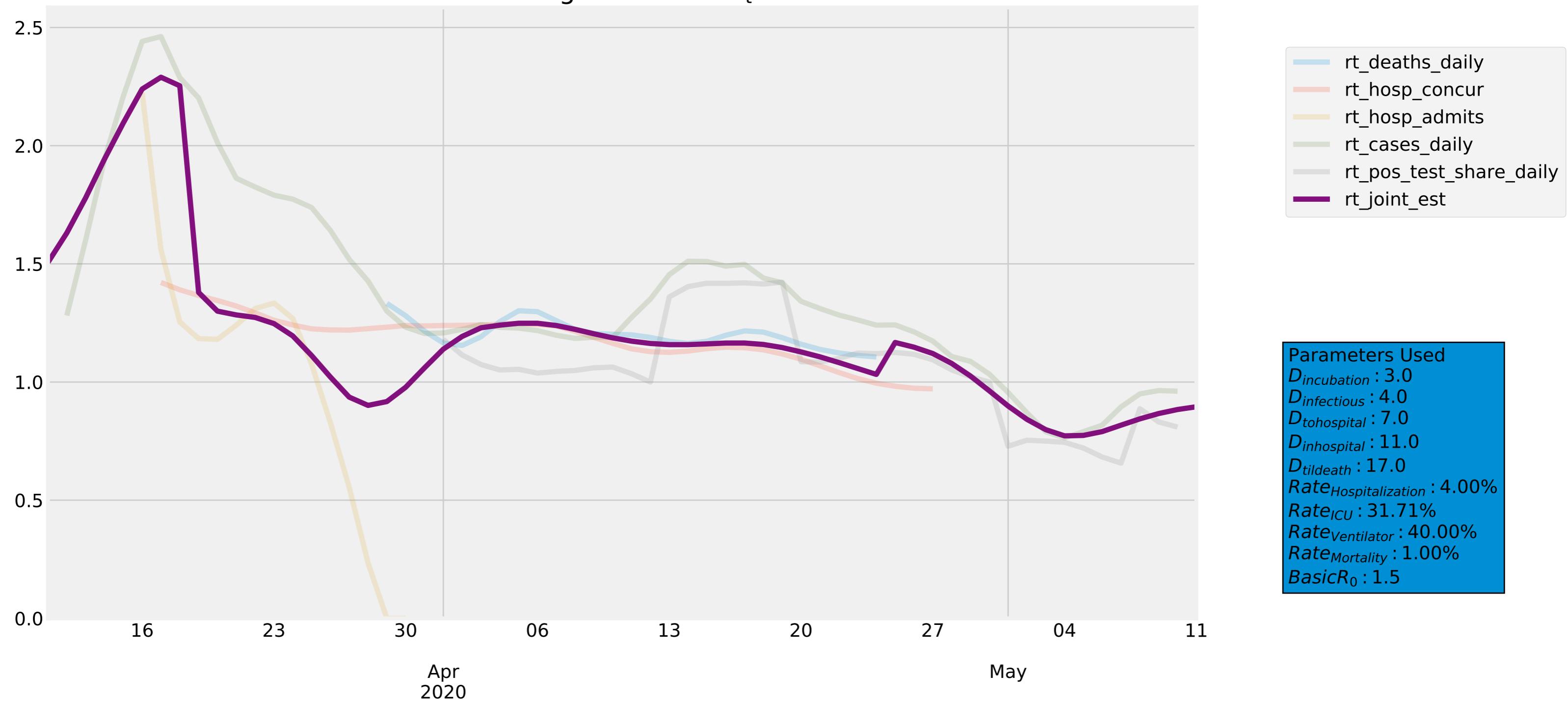


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Iowa: COVID-19 Cases Per 100k Residents



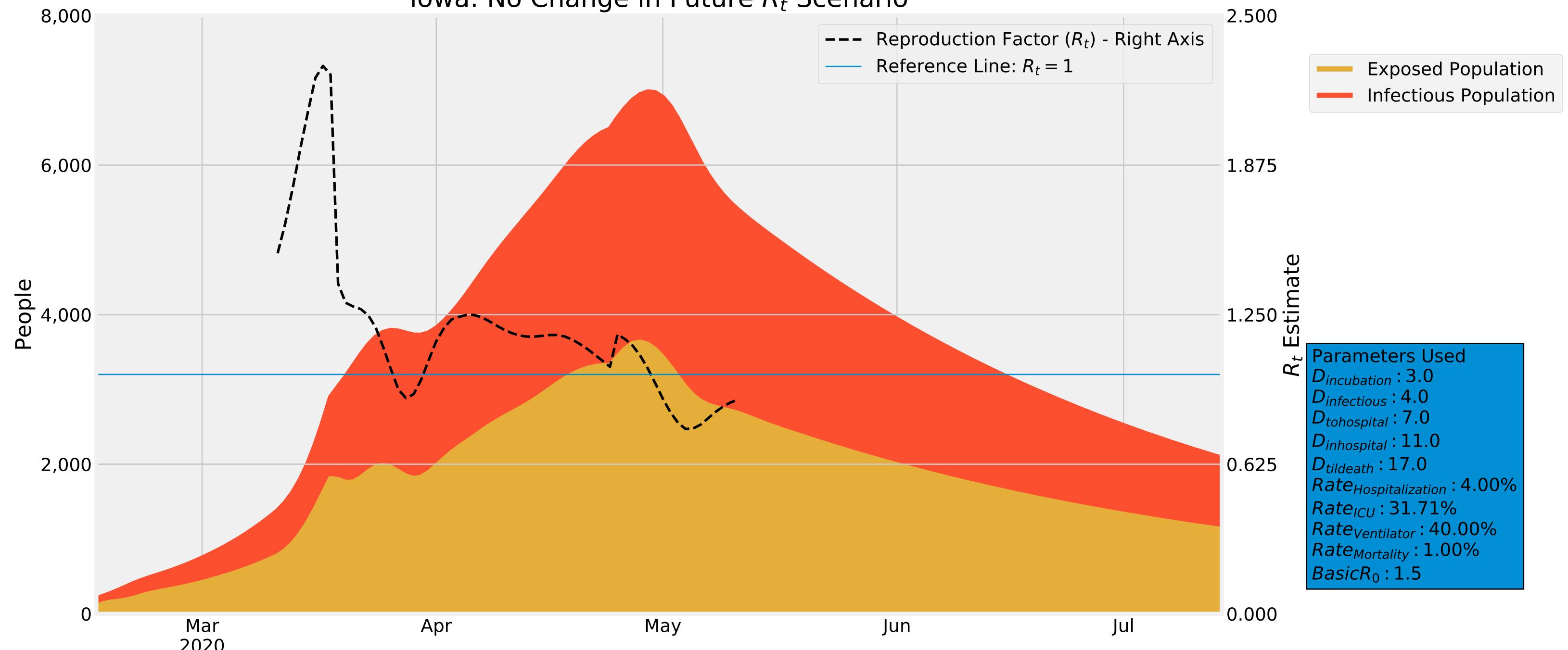
Reproduction Rate (R_t) Estimates Iowa: No Change in Future R_t Scenario



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

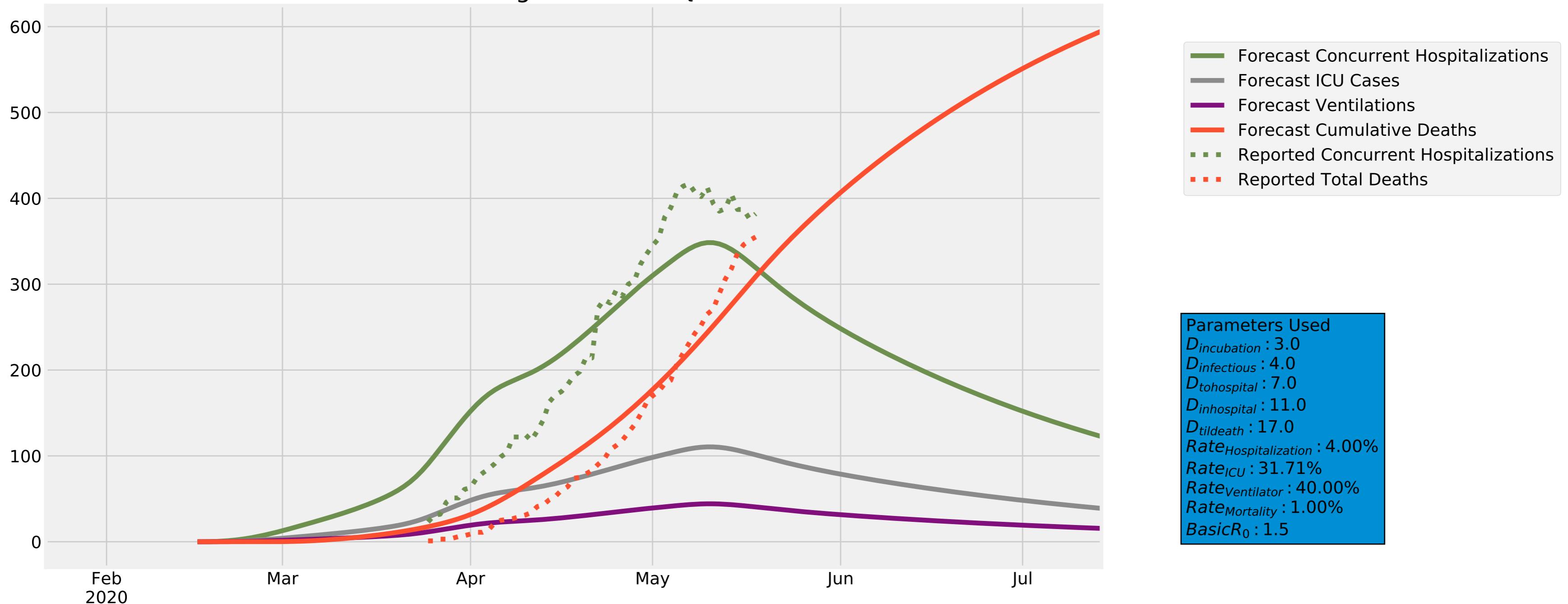
Simultaneous Infections Forecast

Iowa: No Change in Future R_t Scenario



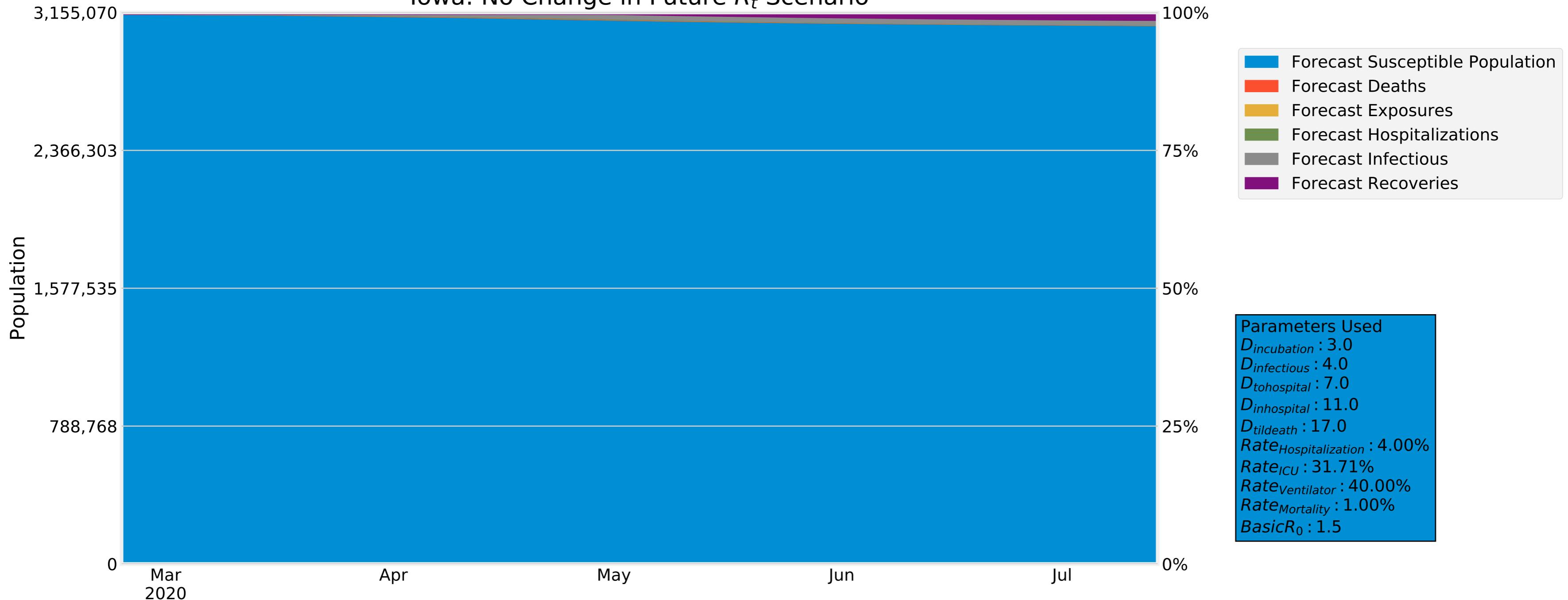
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

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

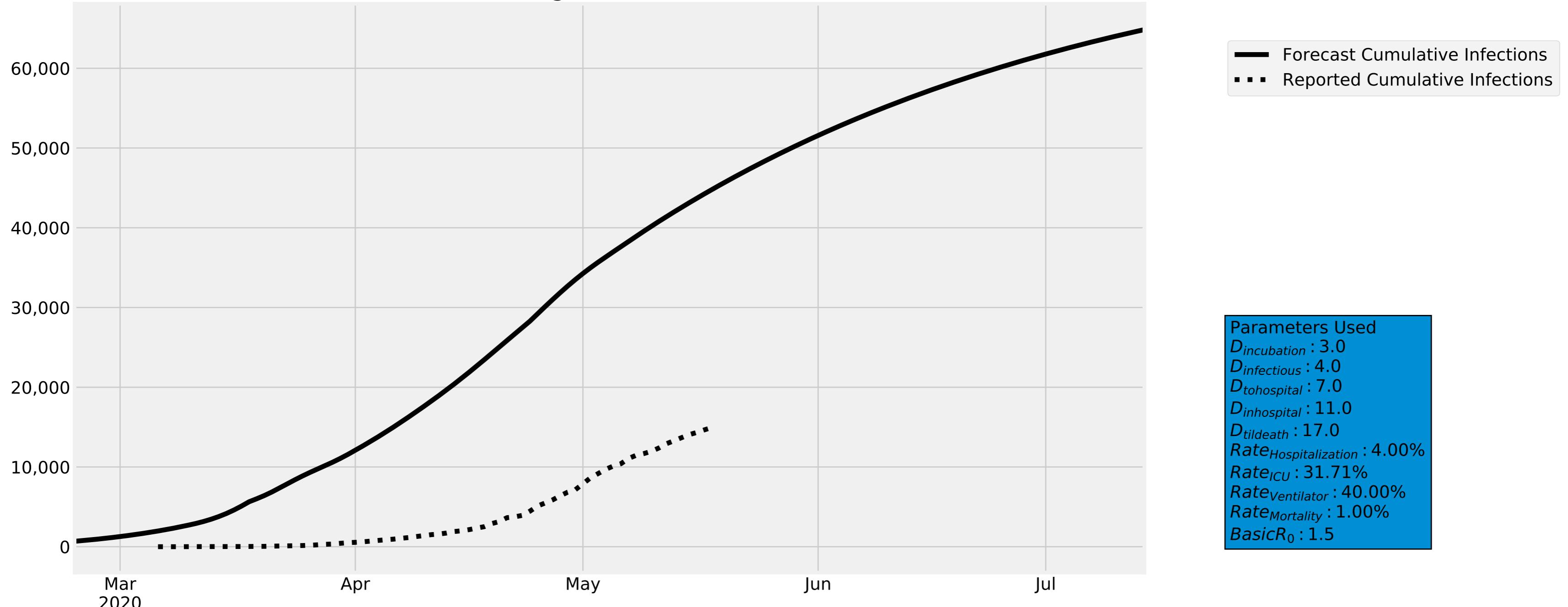


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast Iowa: No Change in Future R_t Scenario



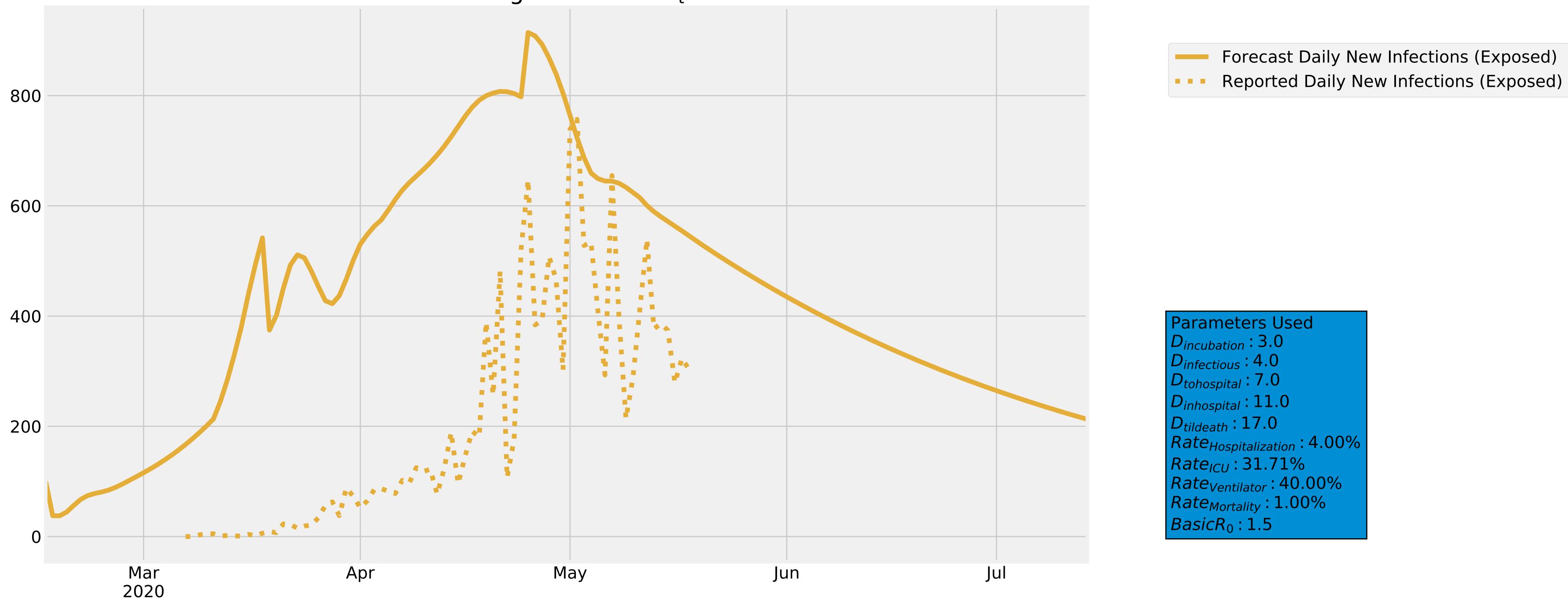
Cumulative Infections Forecast Iowa: No Change in Future R_t Scenario



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

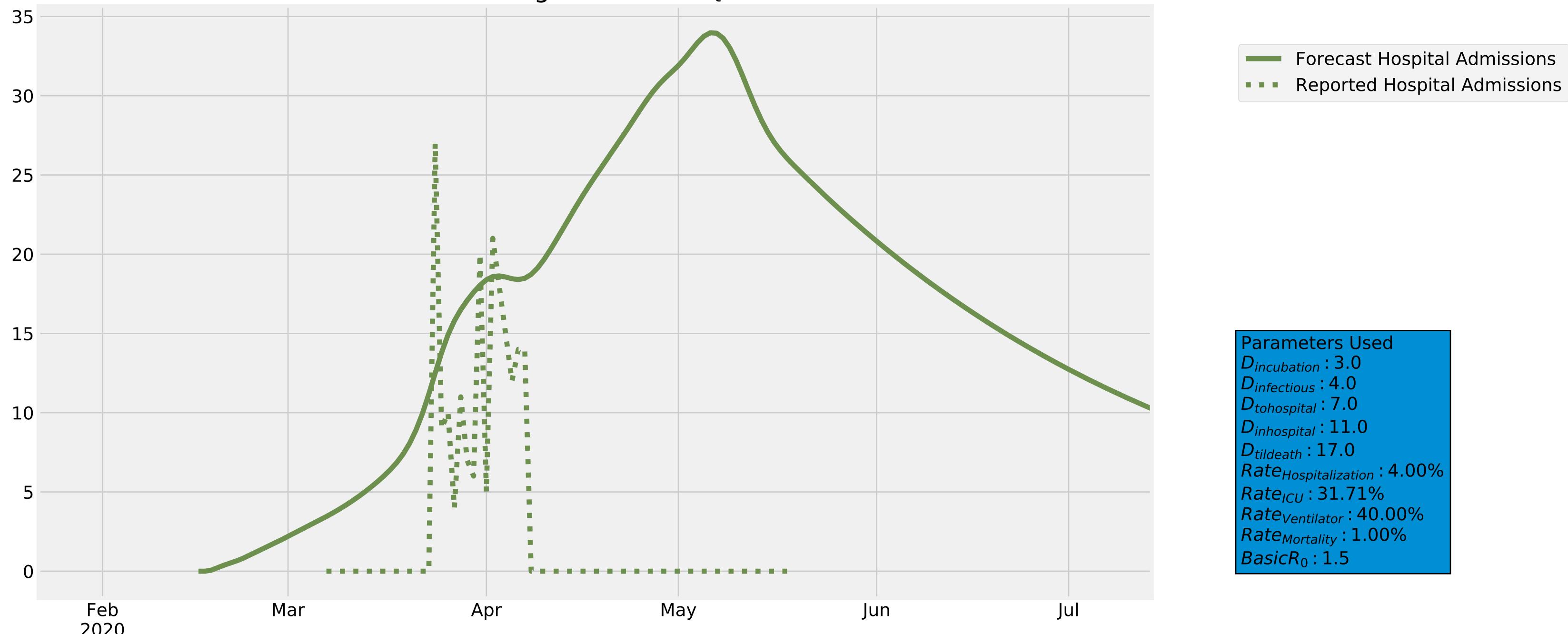
Daily Exposures Forecast Iowa: No Change in Future R_t Scenario



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%
- Basic R_0 : 1.5

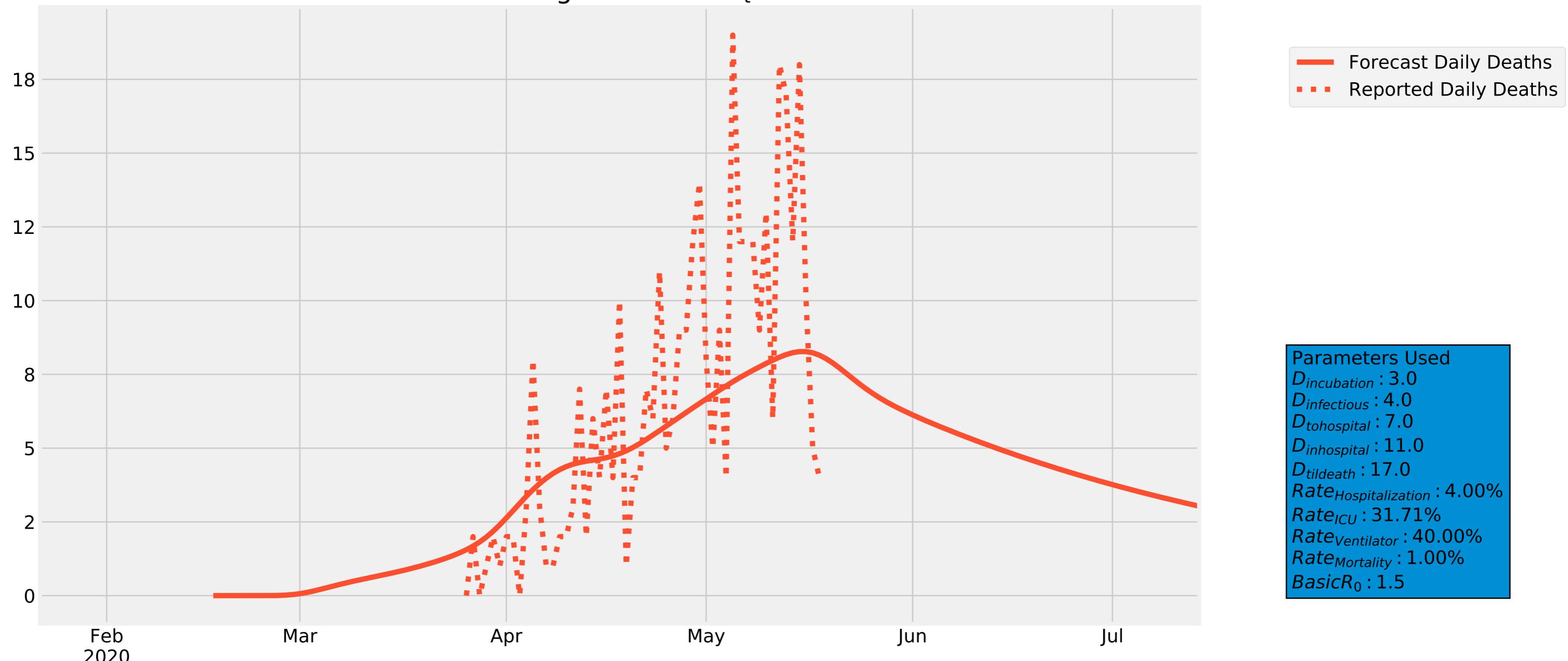
Daily Hospital Admissions Forecast Iowa: No Change in Future R_t Scenario



Parameters Used

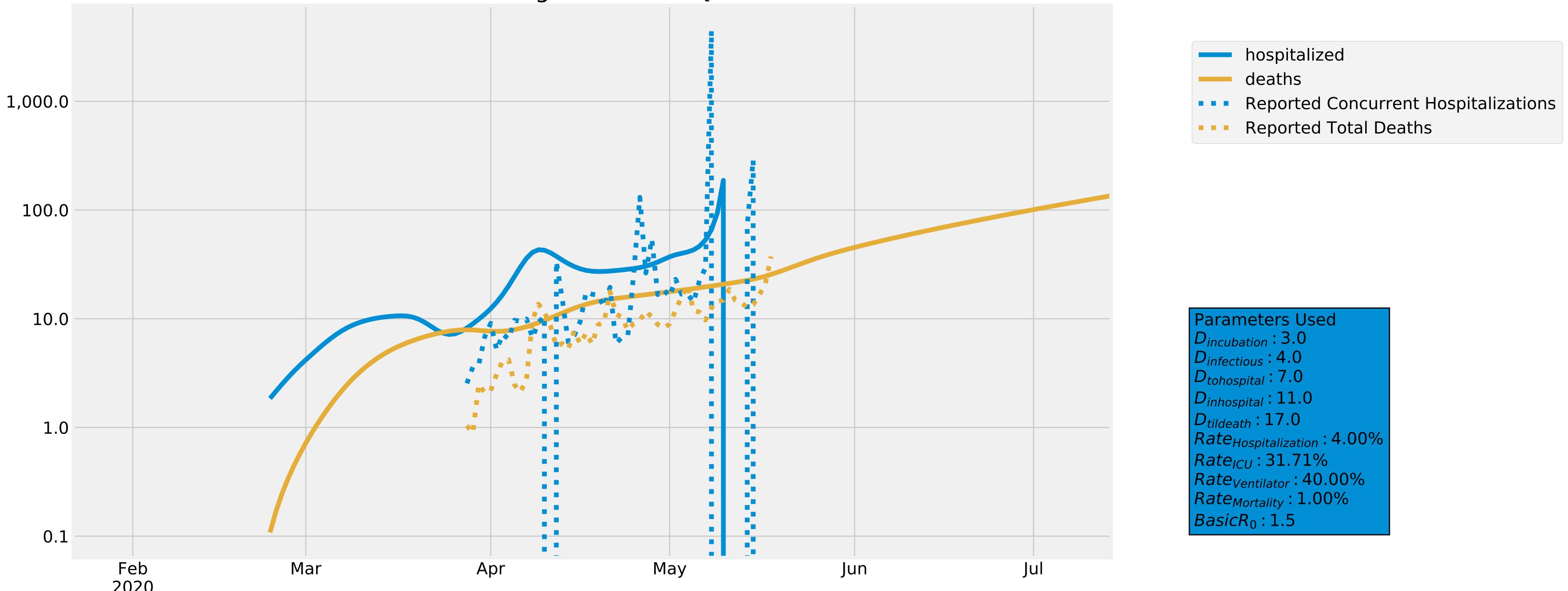
- $D_{incubation} : 3.0$
- $D_{infectious} : 4.0$
- $D_{tohospital} : 7.0$
- $D_{inhospital} : 11.0$
- $D_{tildeath} : 17.0$
- $Rate_{Hospitalization} : 4.00\%$
- $Rate_{ICU} : 31.71\%$
- $Rate_{Ventilator} : 40.00\%$
- $Rate_{Mortality} : 1.00\%$
- $BasicR_0 : 1.5$

Daily Deaths Forecast Iowa: No Change in Future R_t Scenario



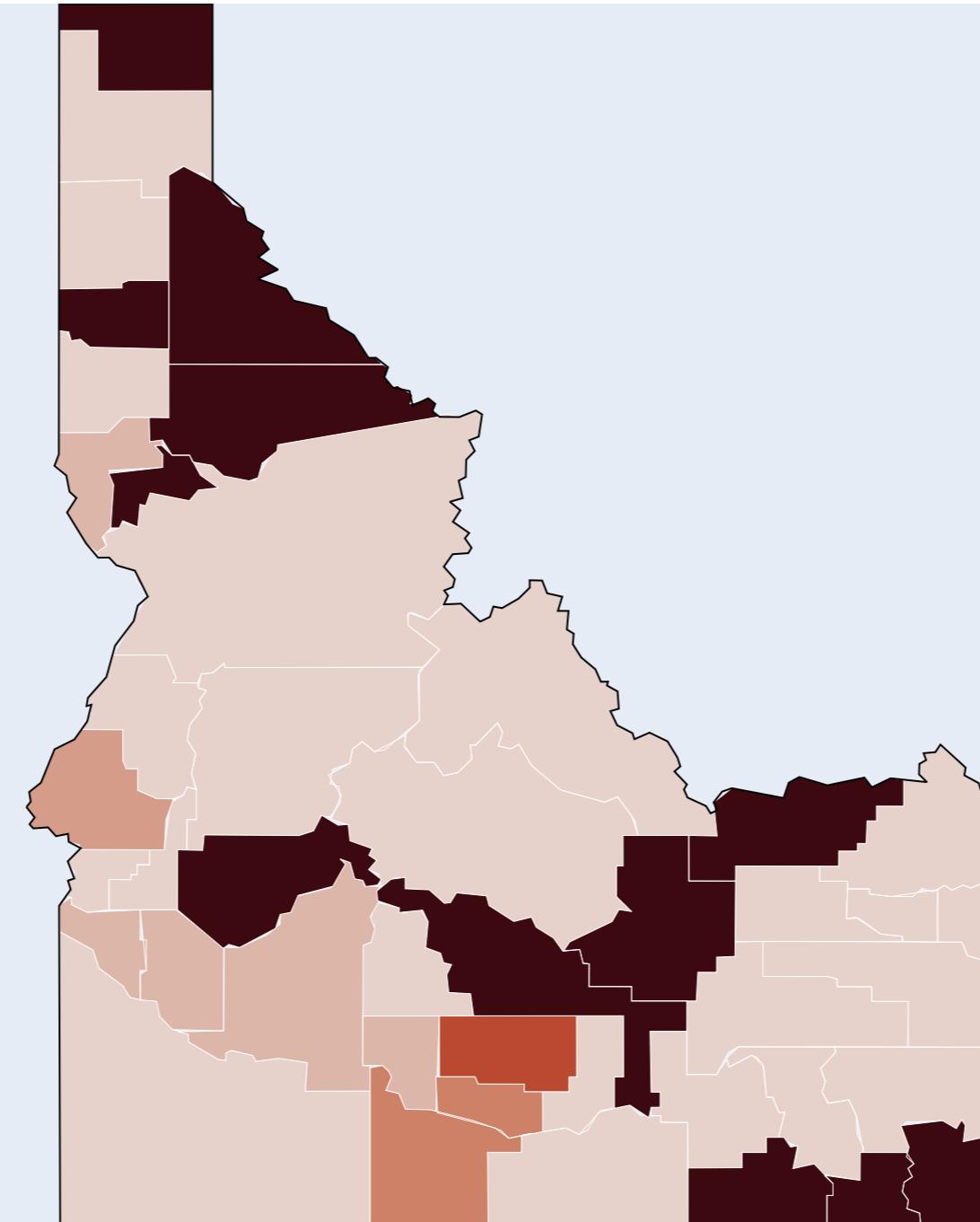
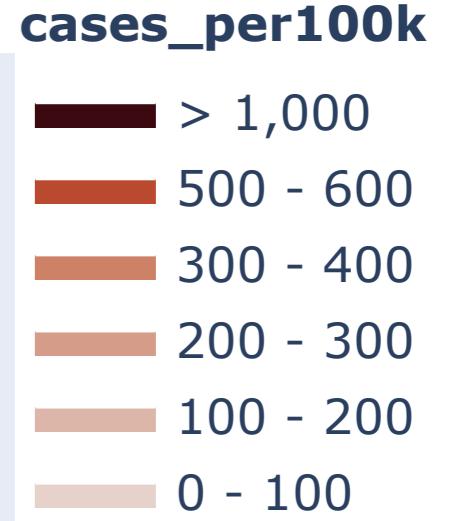
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Iowa: No Change in Future R_t Scenario

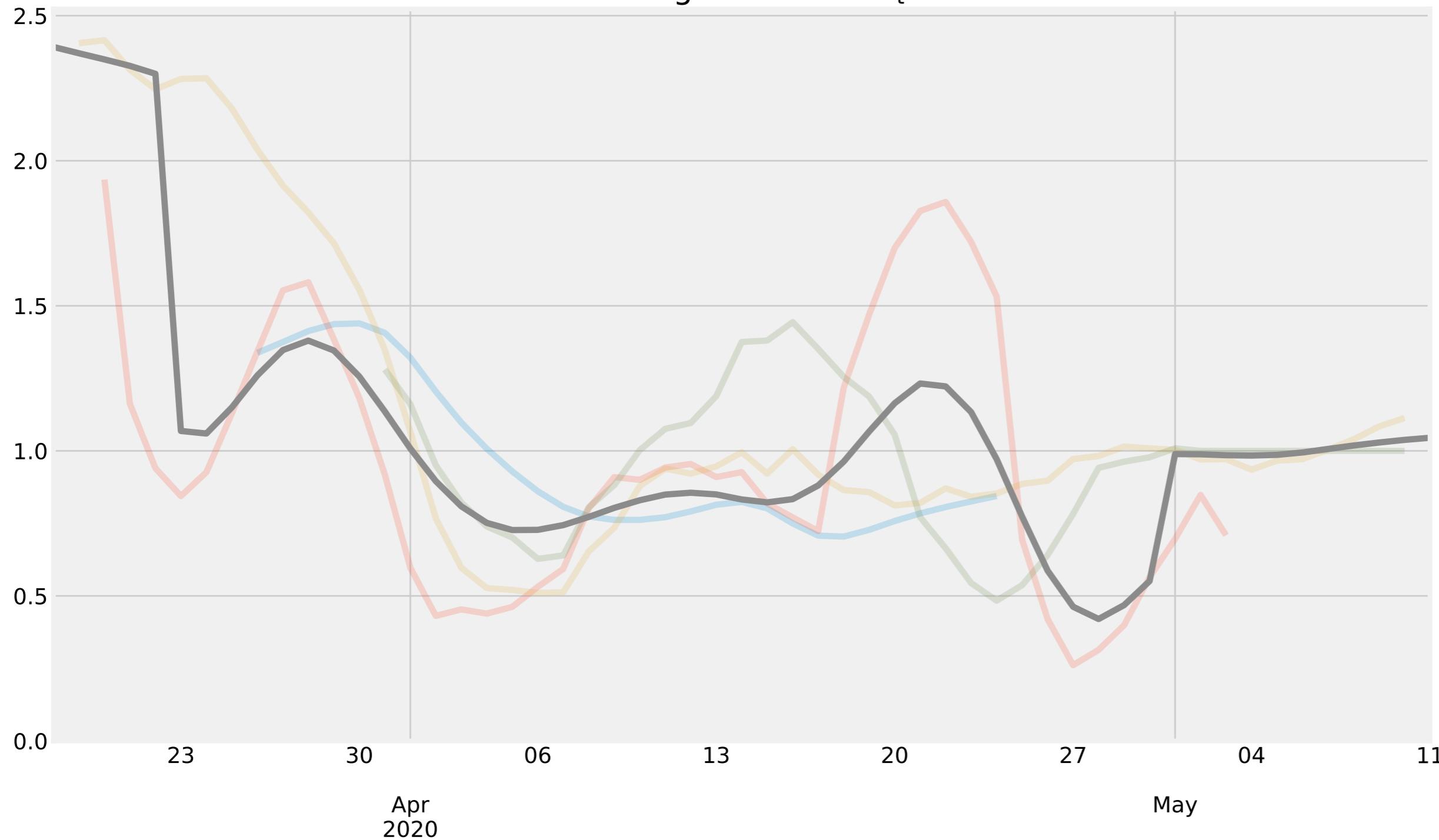


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Idaho: COVID-19 Cases Per 100k Residents



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



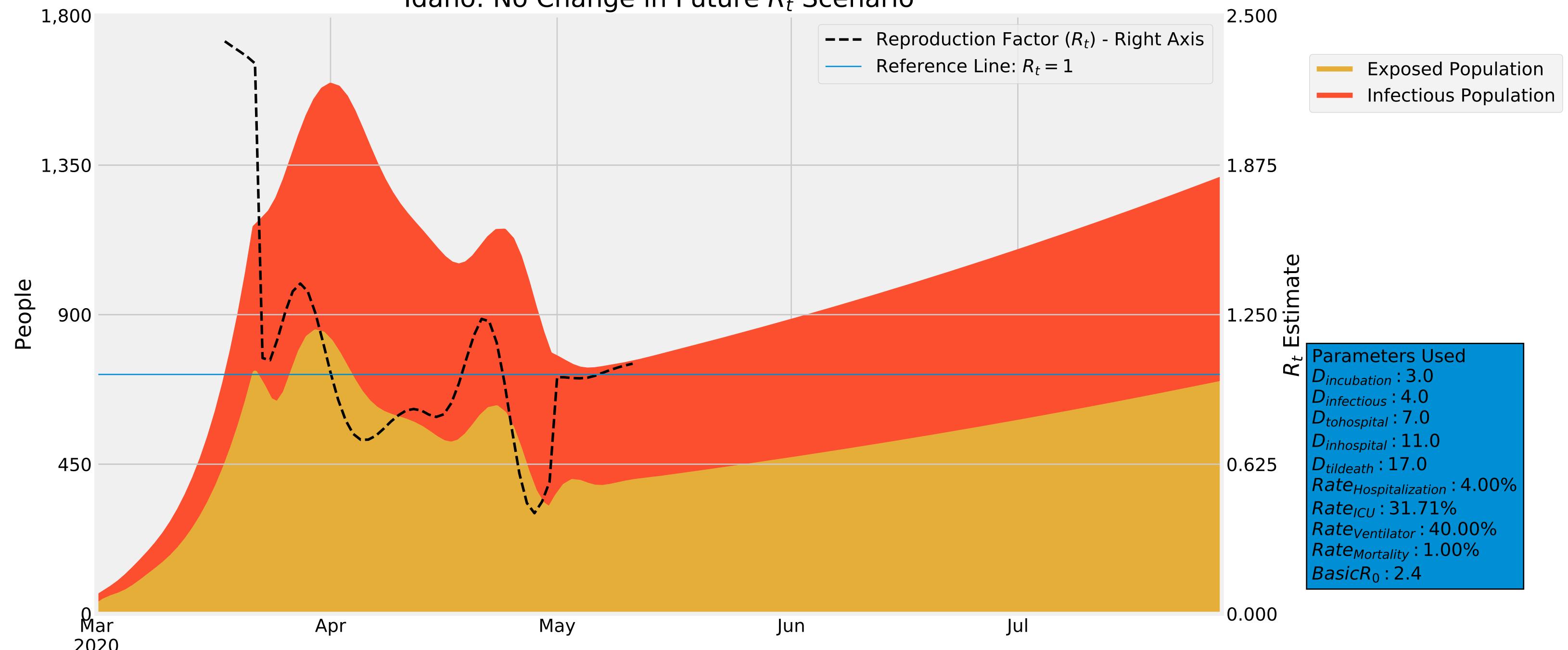
Parameters Used

$D_{incubation}$: 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%
Basic R_0	: 2.4

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

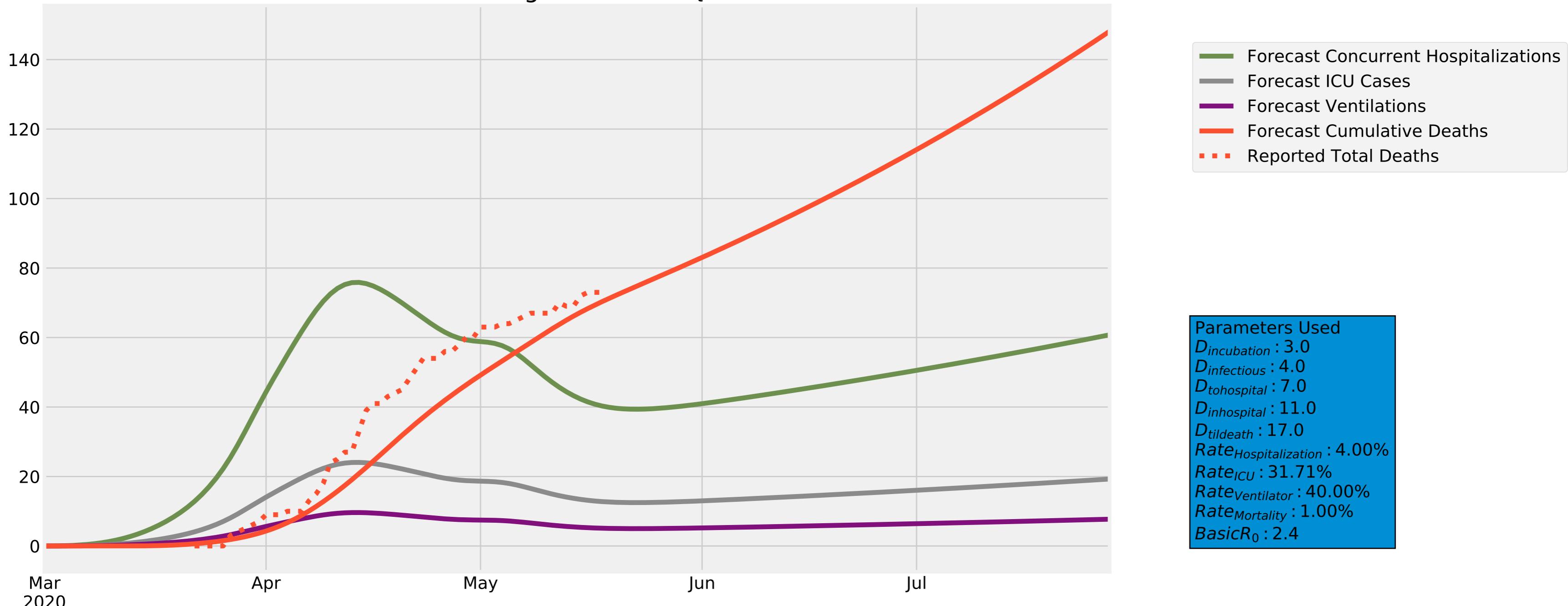
Simultaneous Infections Forecast

Idaho: No Change in Future R_t Scenario



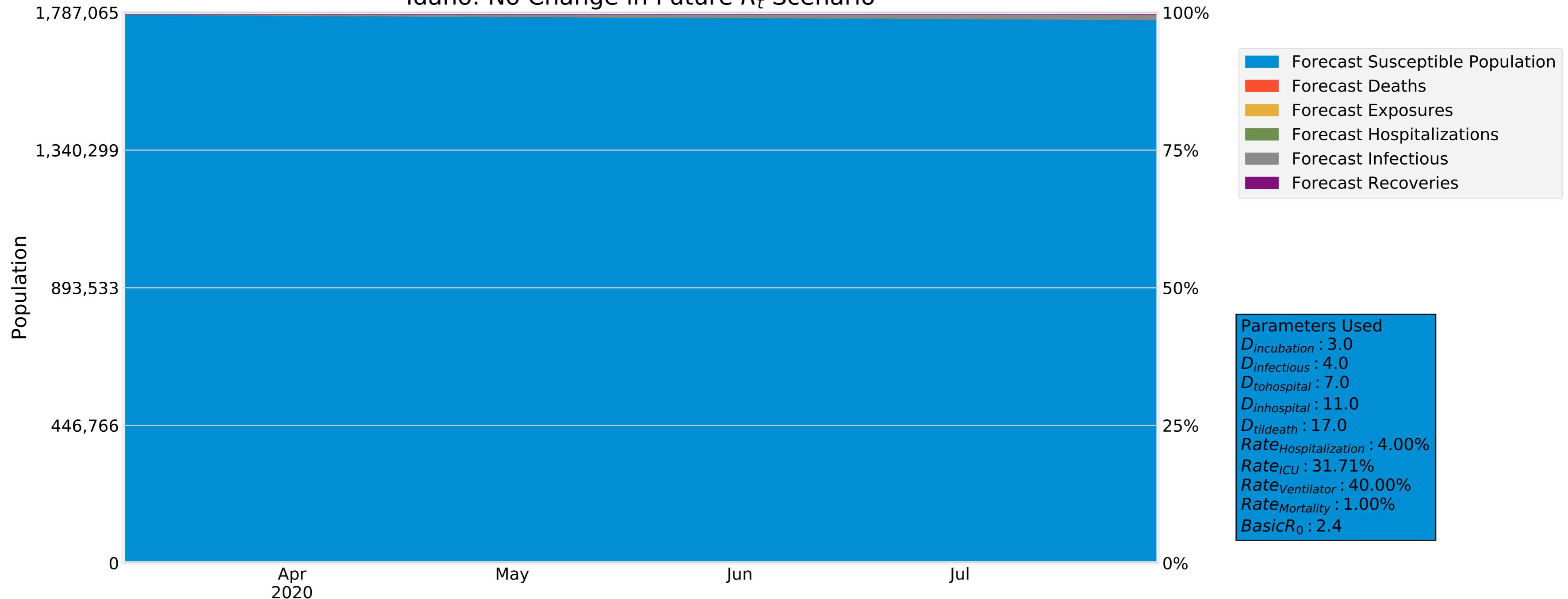
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

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

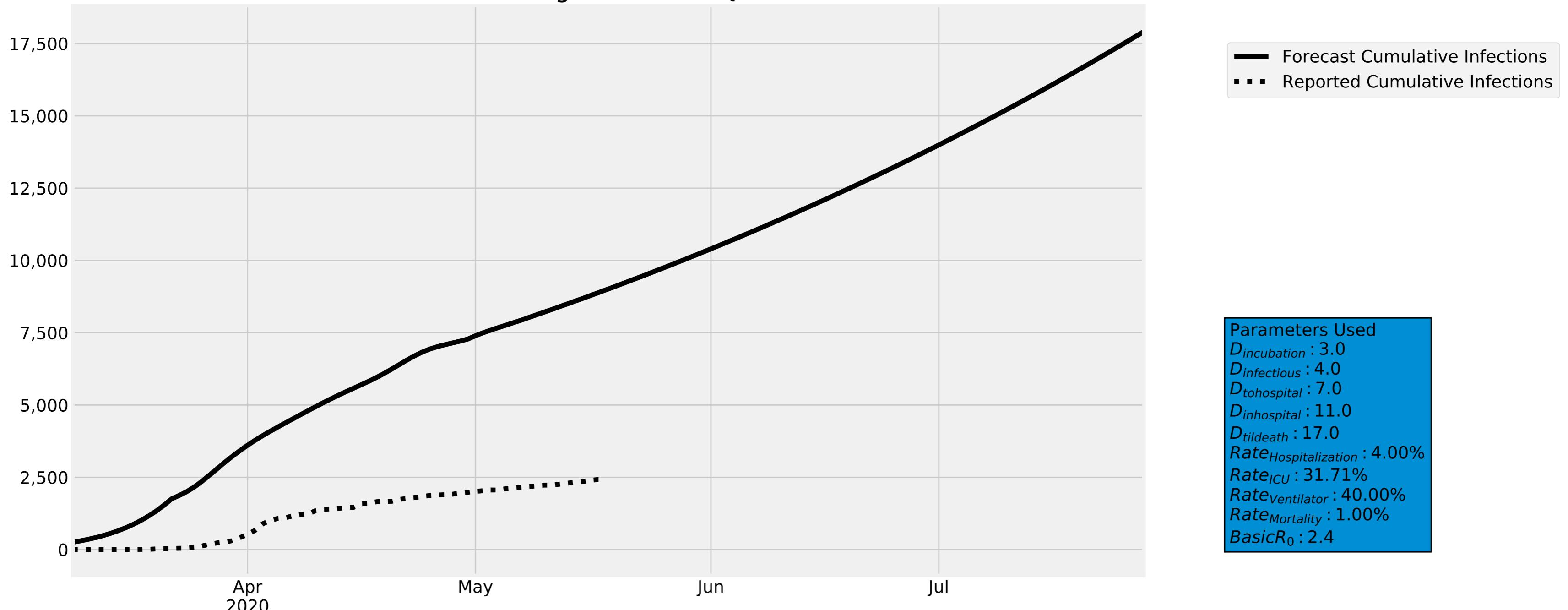


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast Idaho: No Change in Future R_t Scenario



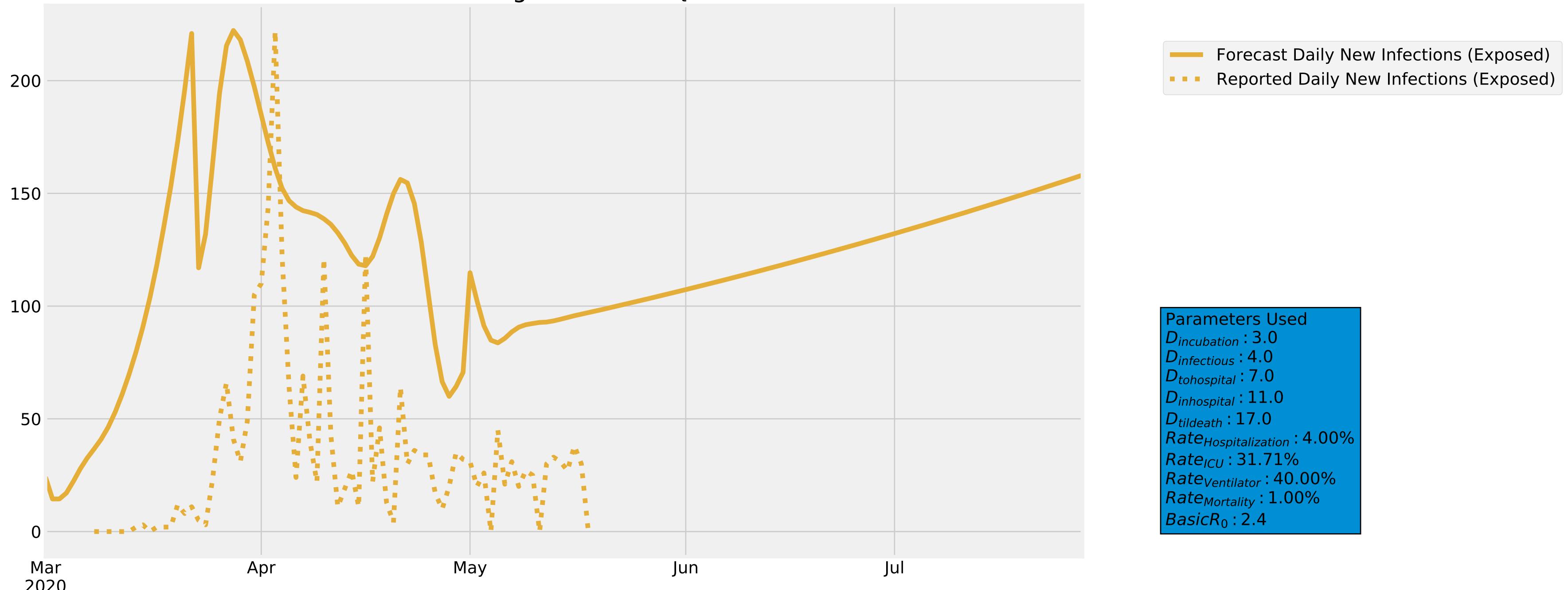
Cumulative Infections Forecast Idaho: No Change in Future R_t Scenario



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%
 $BasicR_0$: 2.4

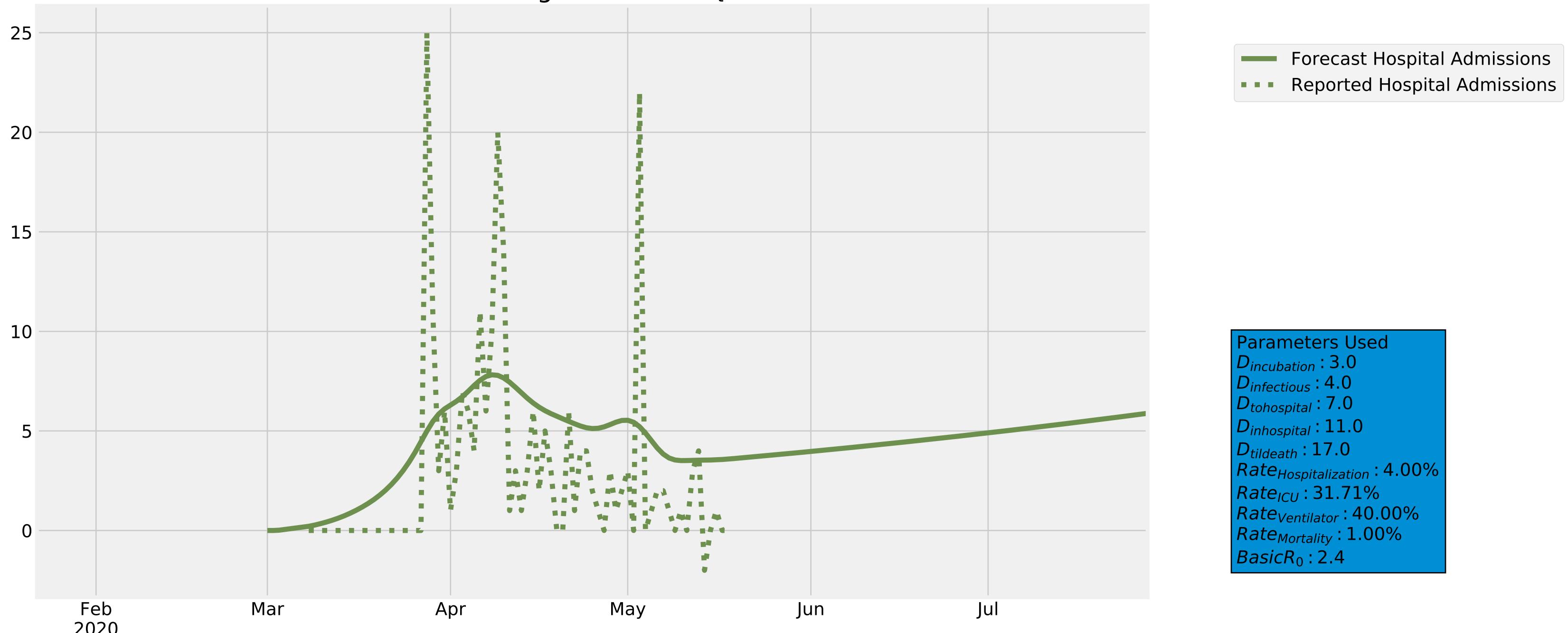
Daily Exposures Forecast Idaho: No Change in Future R_t Scenario



Parameters Used

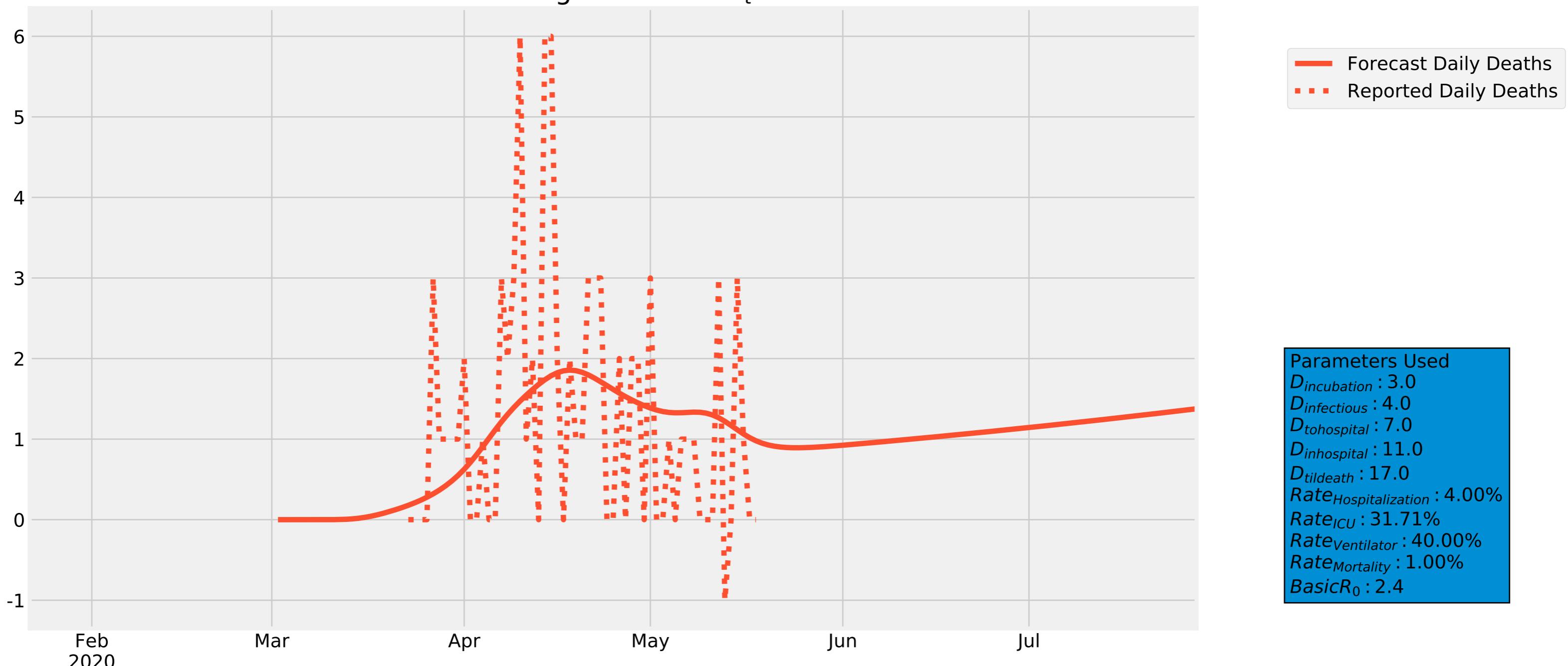
- $D_{incubation}$: 3.0
- $D_{infectious}$: 4.0
- $D_{tohospital}$: 7.0
- $D_{inhospital}$: 11.0
- $D_{tildeath}$: 17.0
- Rate_{Hospitalization} : 4.00%
- Rate_{ICU} : 31.71%
- Rate_{Ventilator} : 40.00%
- Rate_{Mortality} : 1.00%
- Basic R_0 : 2.4

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



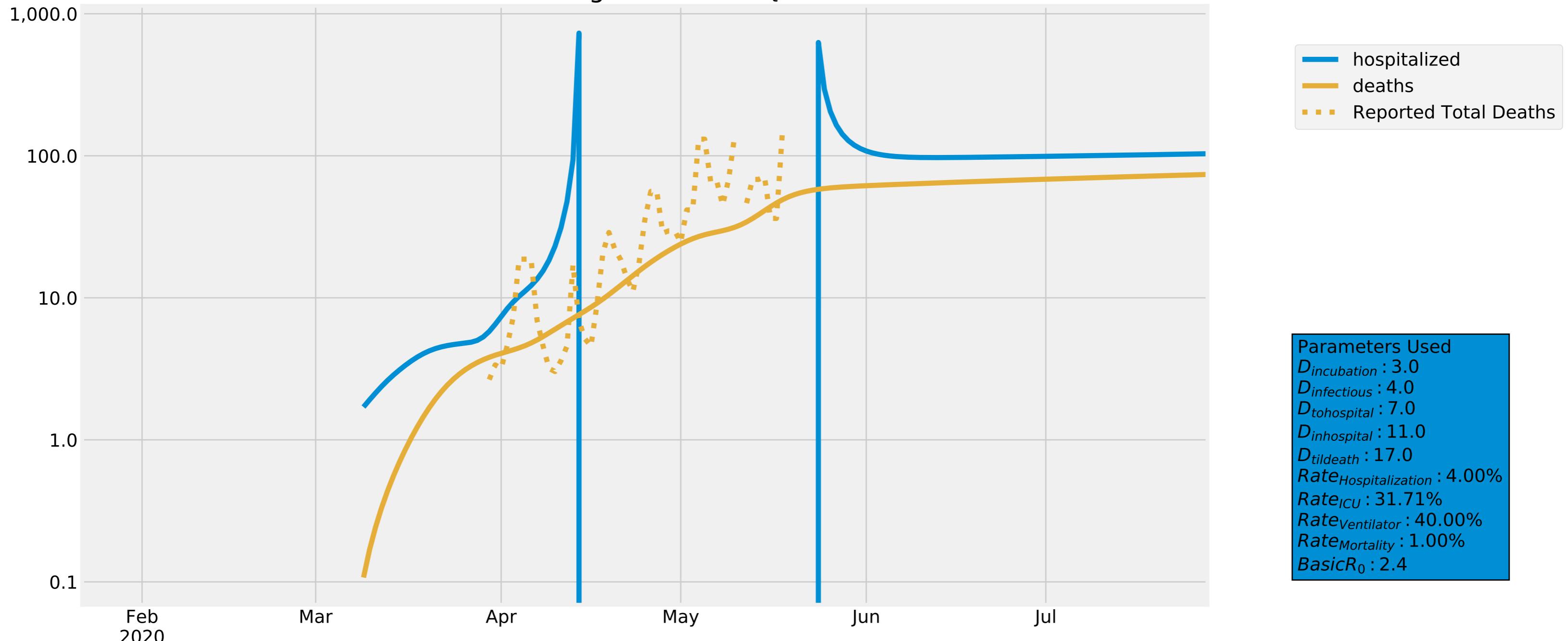
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Daily Deaths Forecast Idaho: No Change in Future R_t Scenario



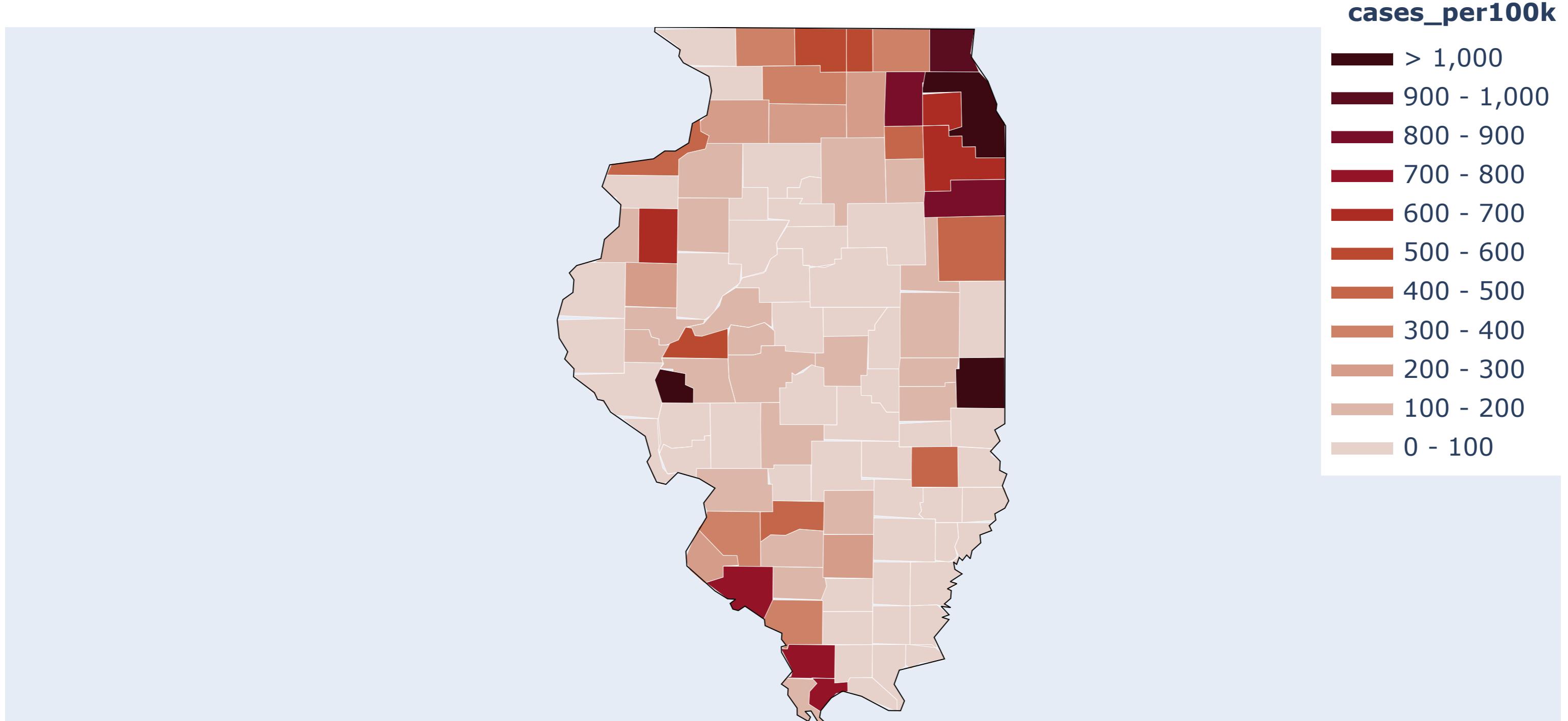
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Idaho: No Change in Future R_t Scenario

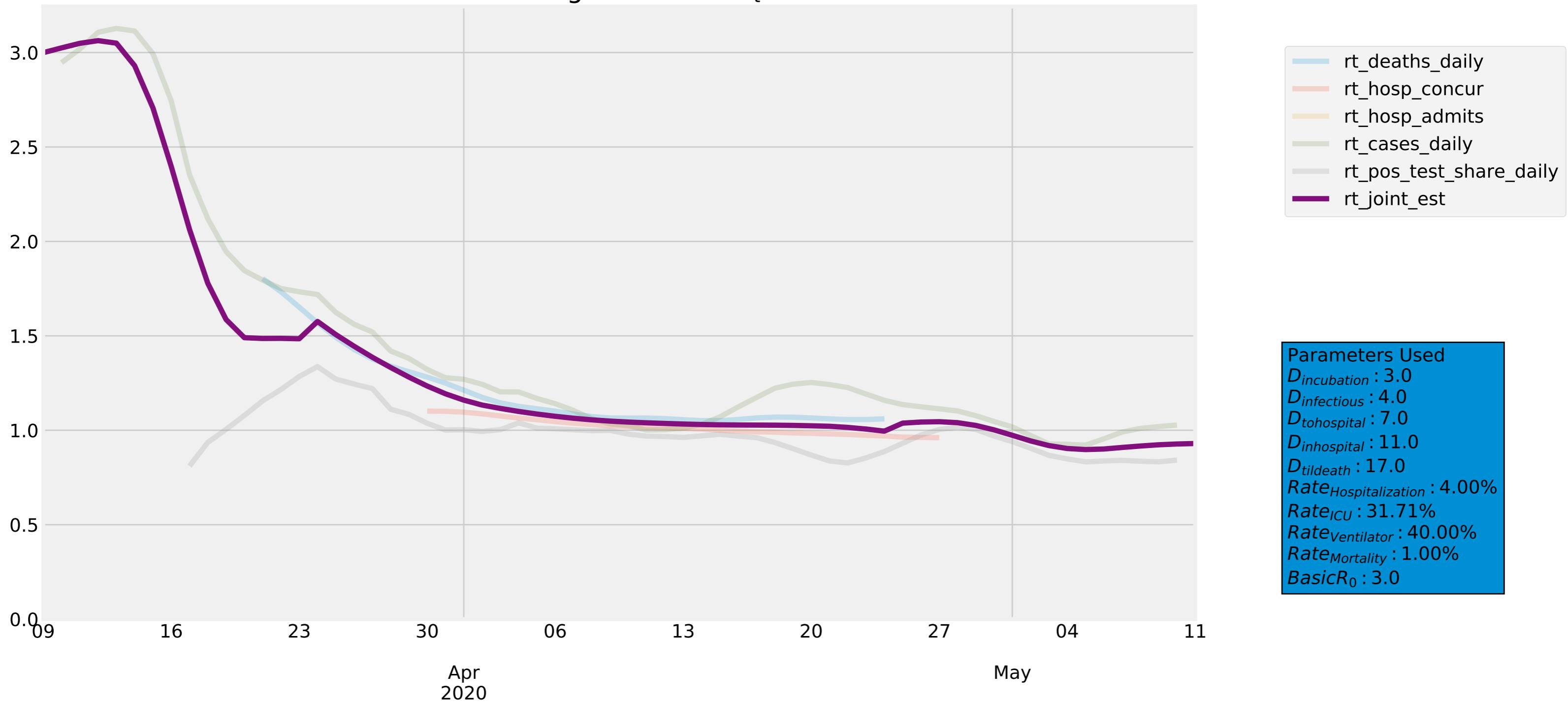


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Illinois: COVID-19 Cases Per 100k Residents



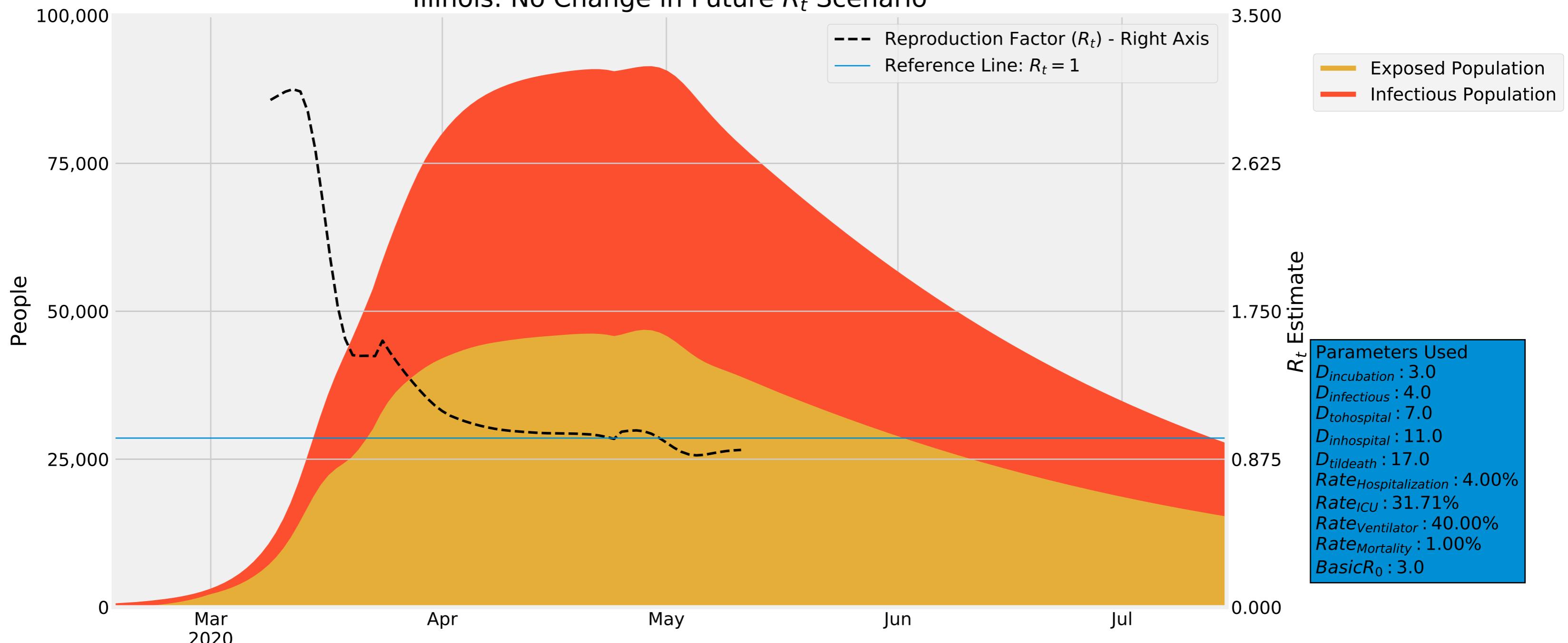
Reproduction Rate (R_t) Estimates Illinois: No Change in Future R_t Scenario



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

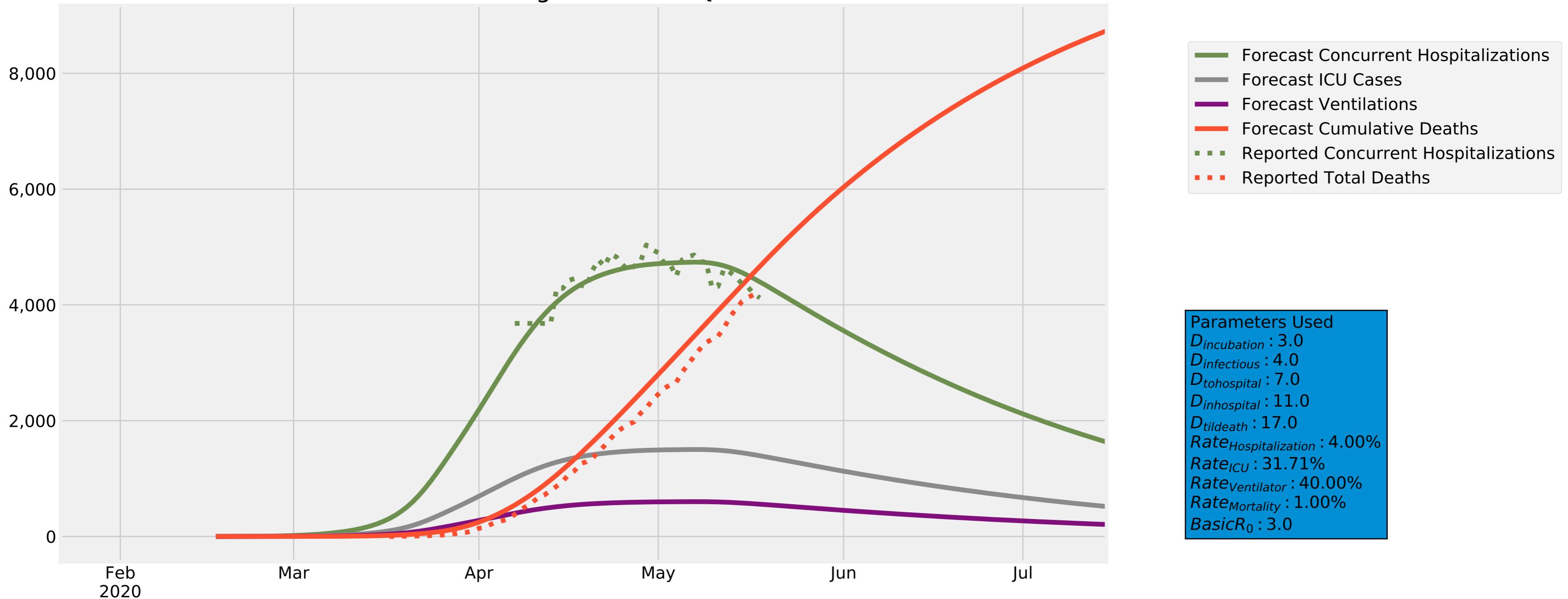
Simultaneous Infections Forecast

Illinois: No Change in Future R_t Scenario



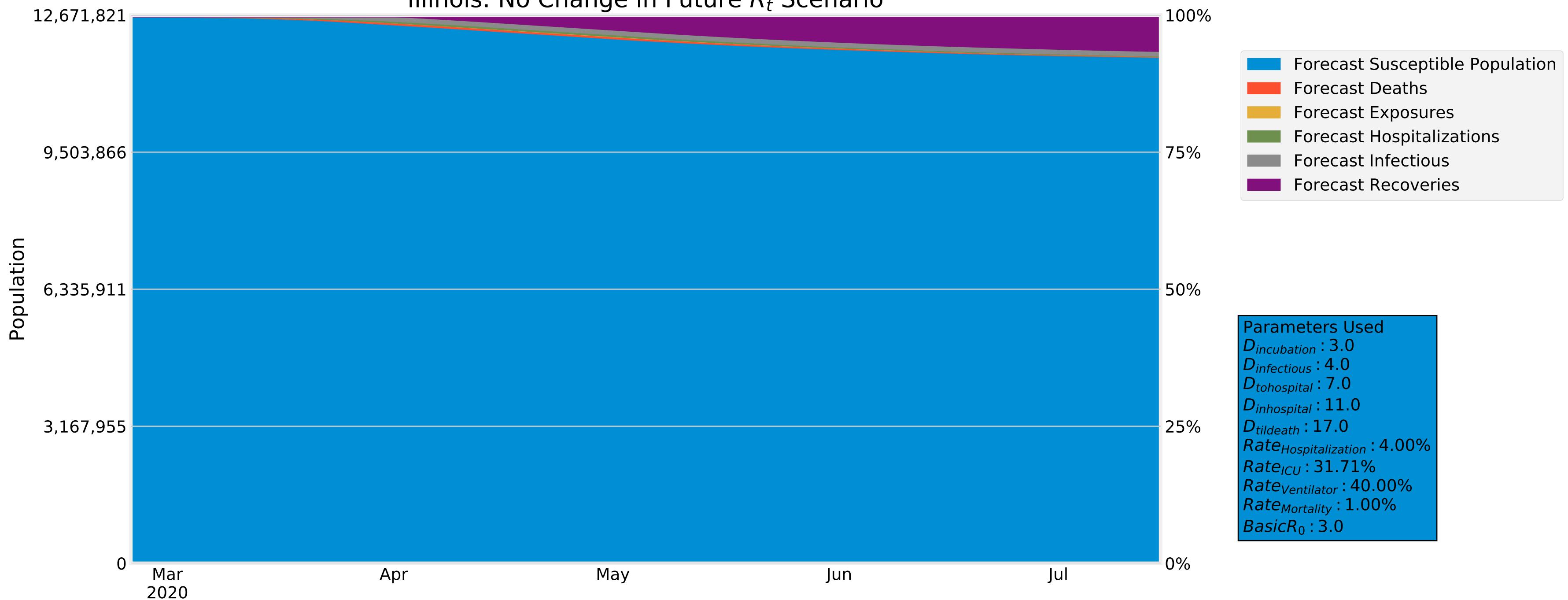
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

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

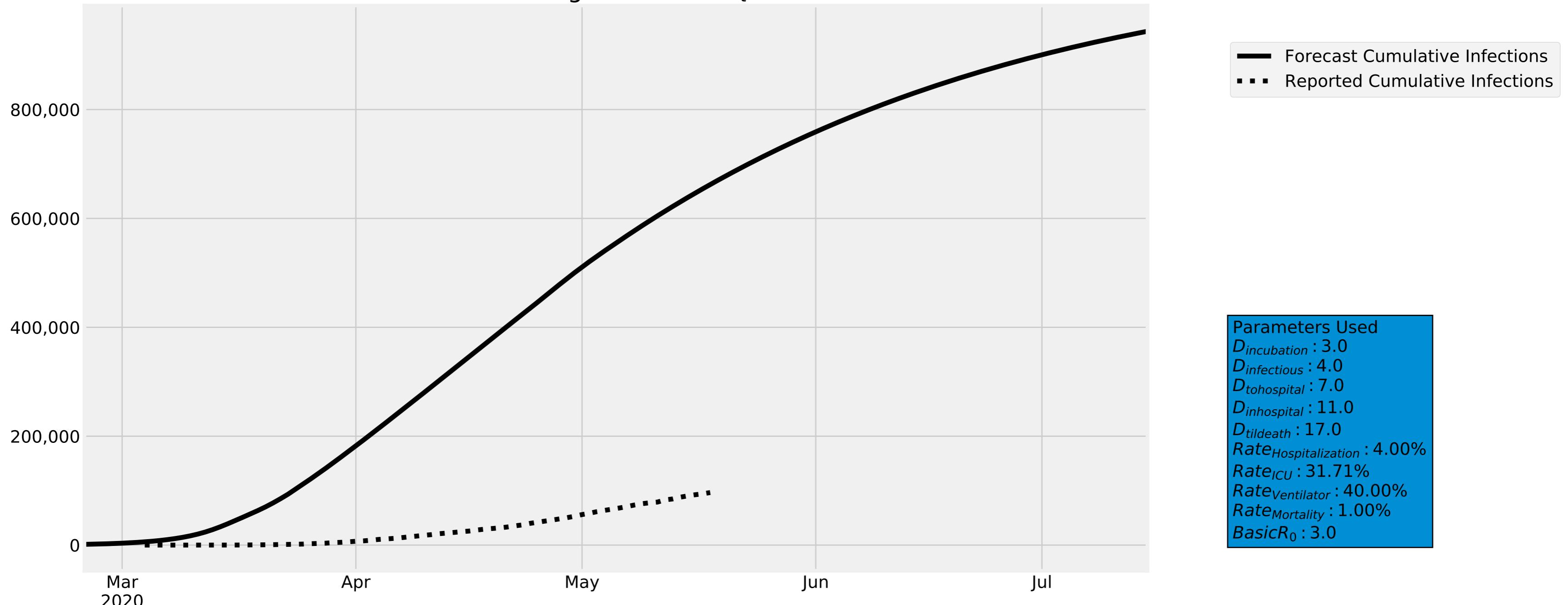


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast Illinois: No Change in Future R_t Scenario



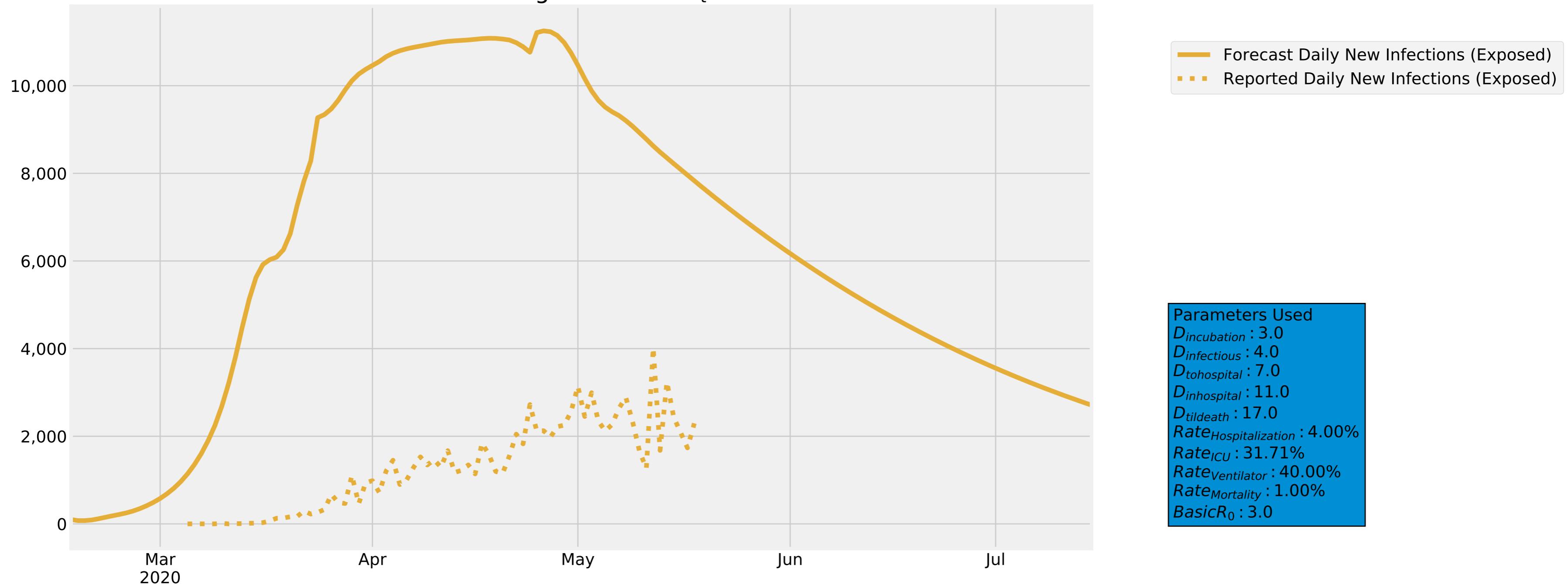
Cumulative Infections Forecast Illinois: No Change in Future R_t Scenario



Parameters Used

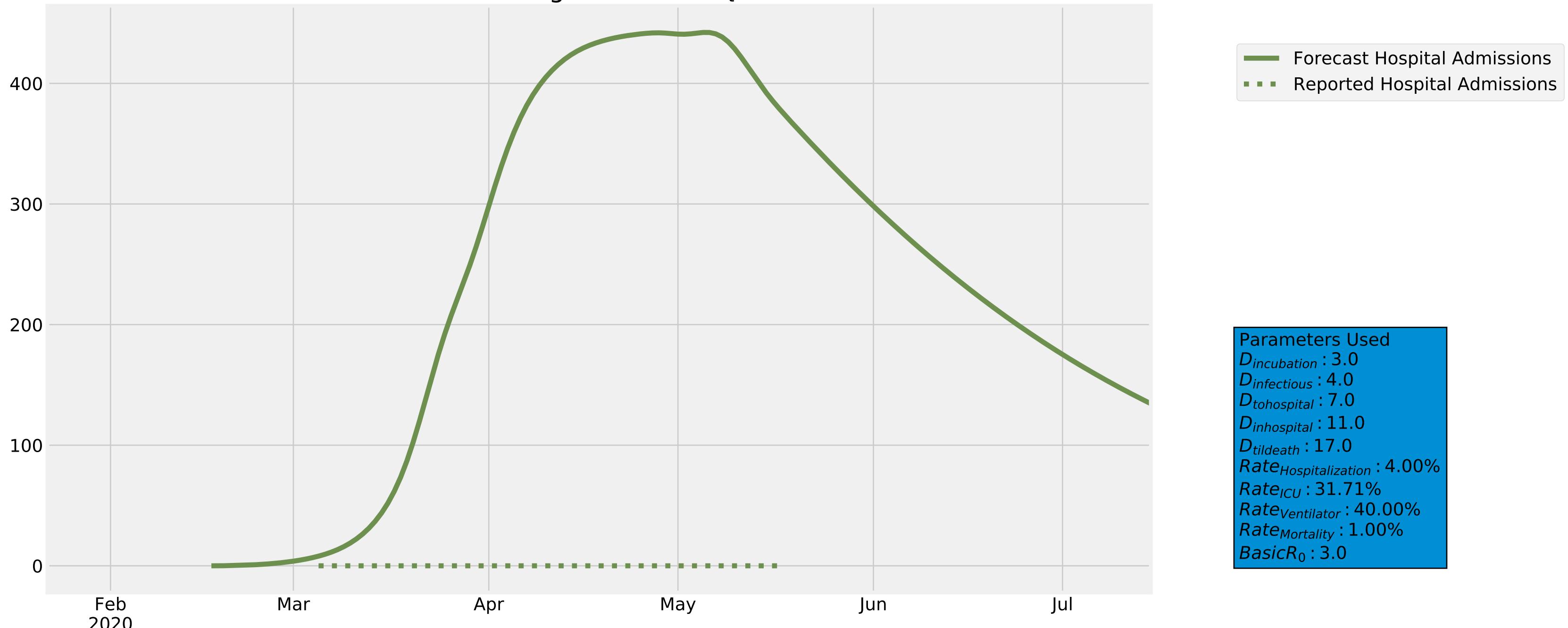
- $D_{incubation}$: 3.0
- $D_{infectious}$: 4.0
- $D_{tohospital}$: 7.0
- $D_{inhospital}$: 11.0
- $D_{tildeath}$: 17.0
- $Rate_{Hospitalization}$: 4.00%
- $Rate_{ICU}$: 31.71%
- $Rate_{Ventilator}$: 40.00%
- $Rate_{Mortality}$: 1.00%
- $BasicR_0$: 3.0

Daily Exposures Forecast Illinois: No Change in Future R_t Scenario



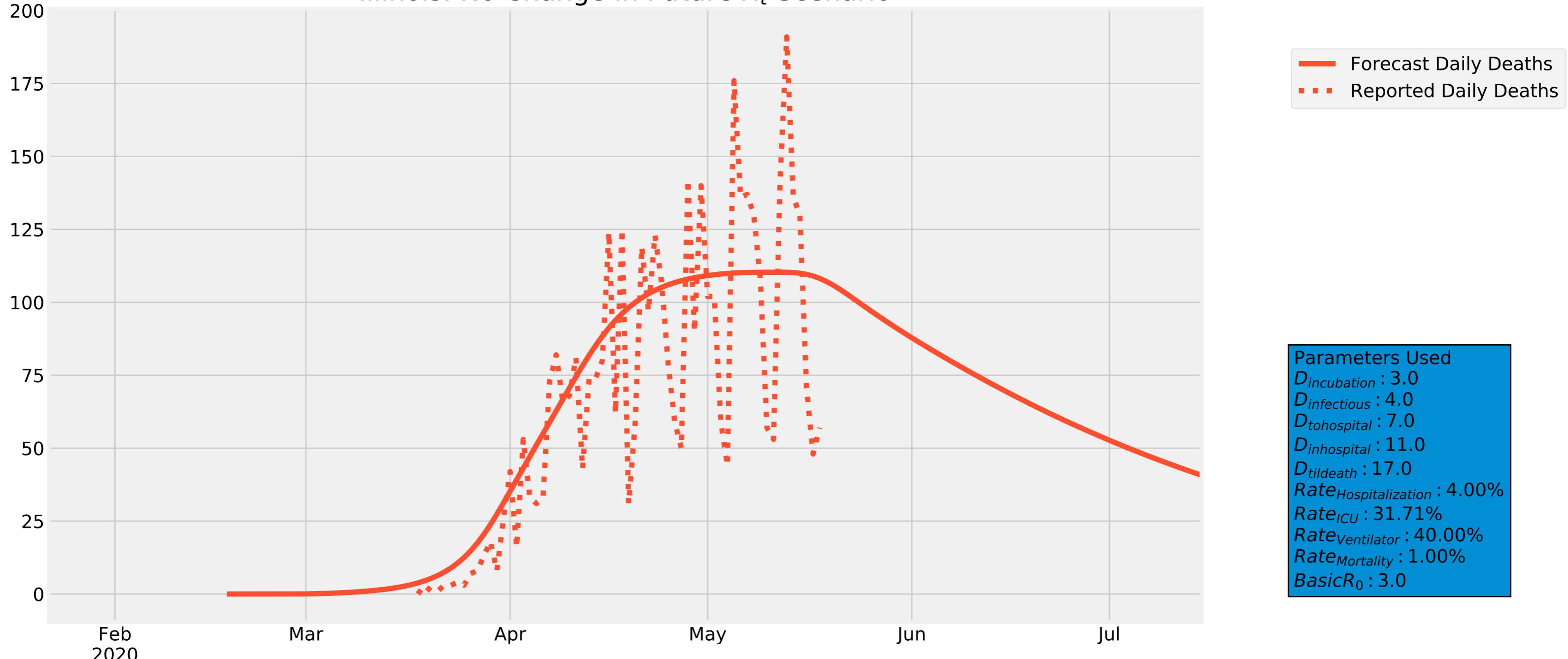
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

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



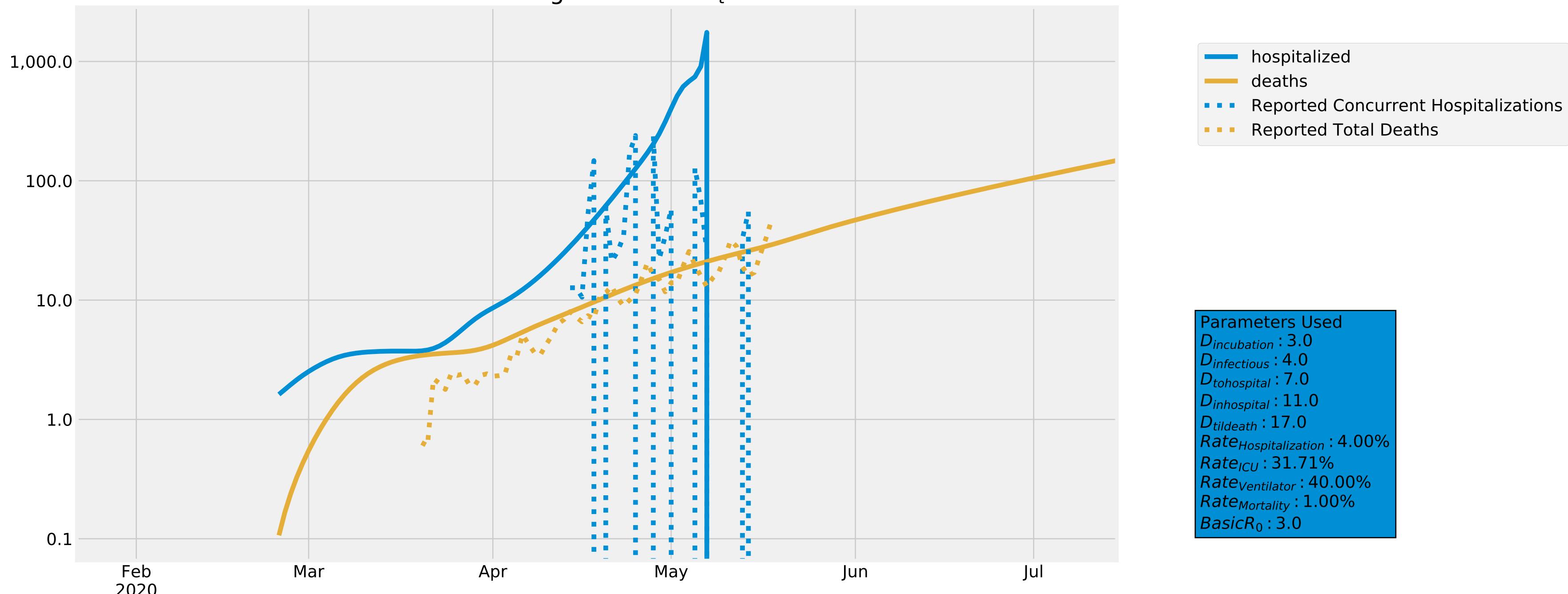
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Daily Deaths Forecast Illinois: No Change in Future R_t Scenario



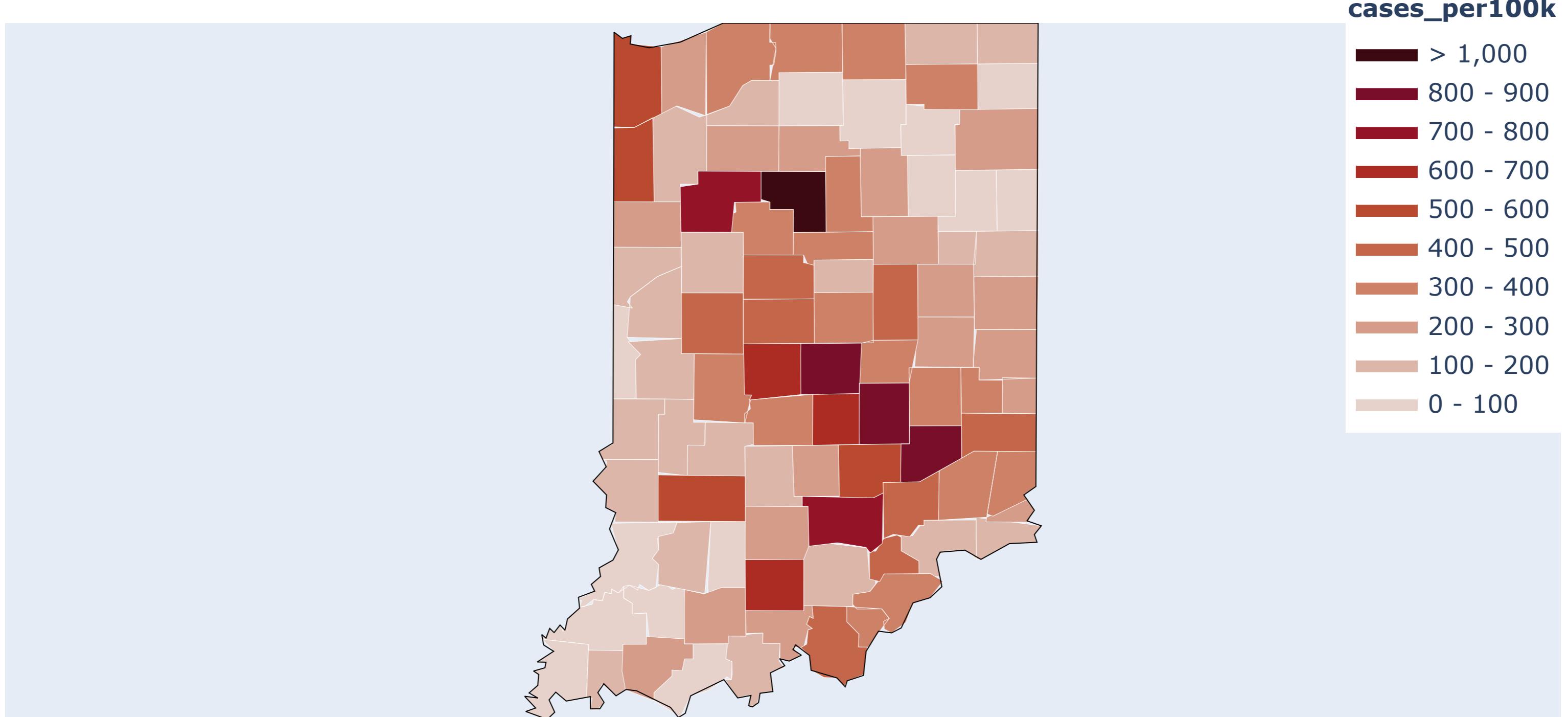
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Illinois: No Change in Future R_t Scenario

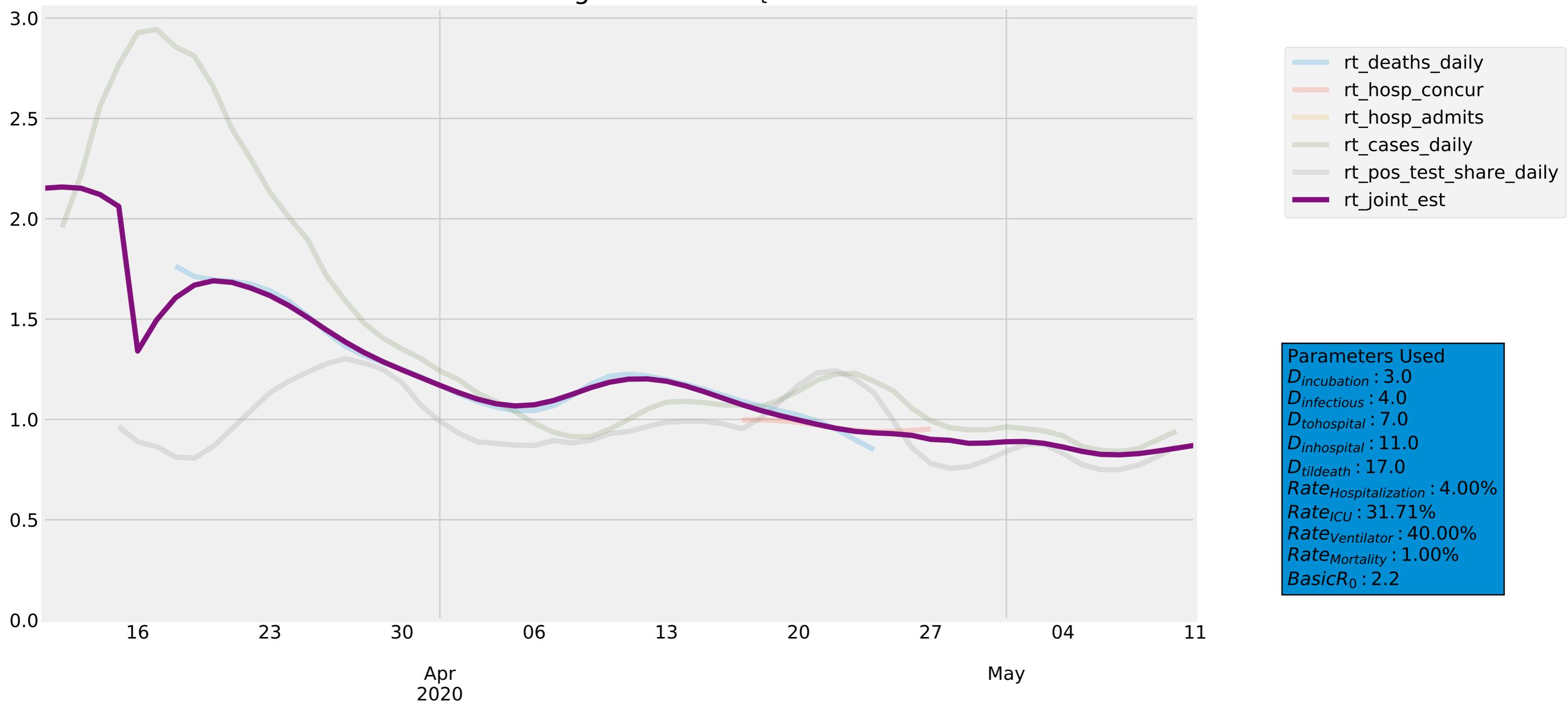


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Indiana: COVID-19 Cases Per 100k Residents



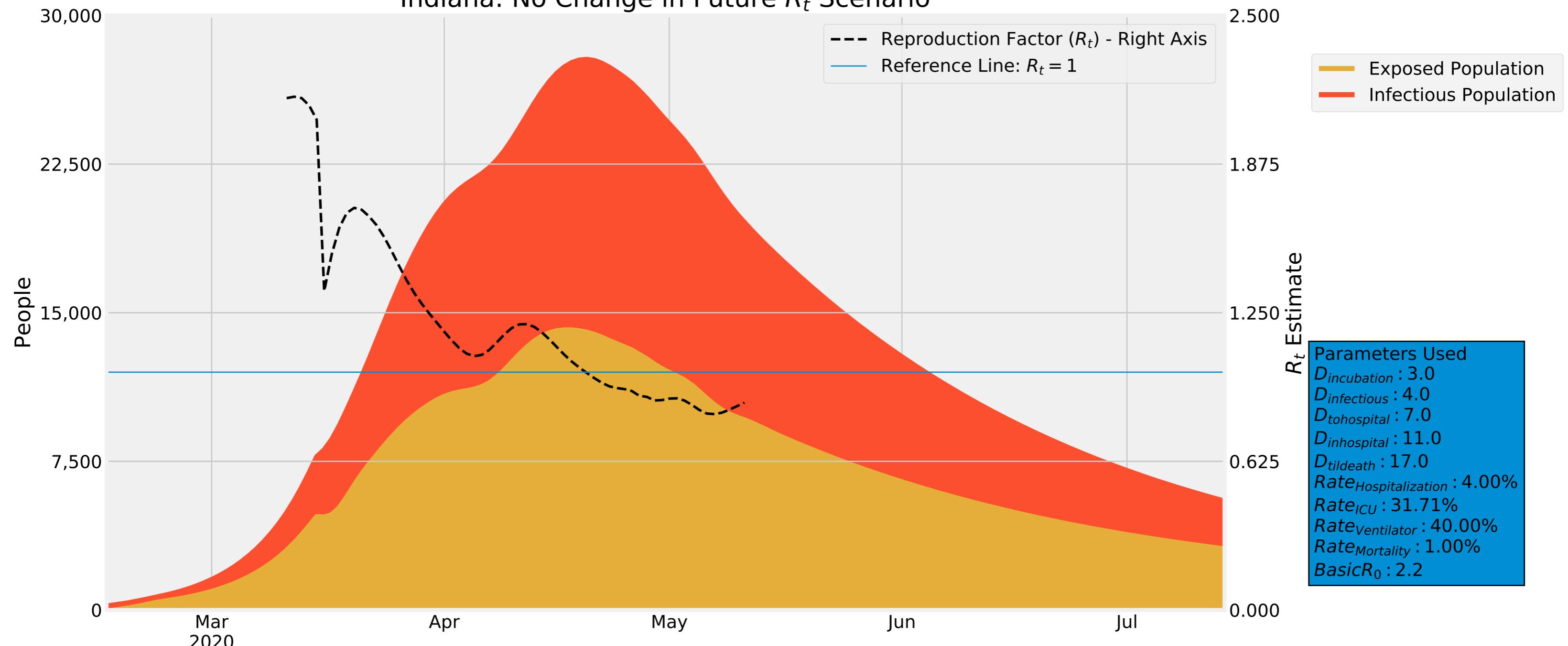
Reproduction Rate (R_t) Estimates Indiana: No Change in Future R_t Scenario



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

Simultaneous Infections Forecast

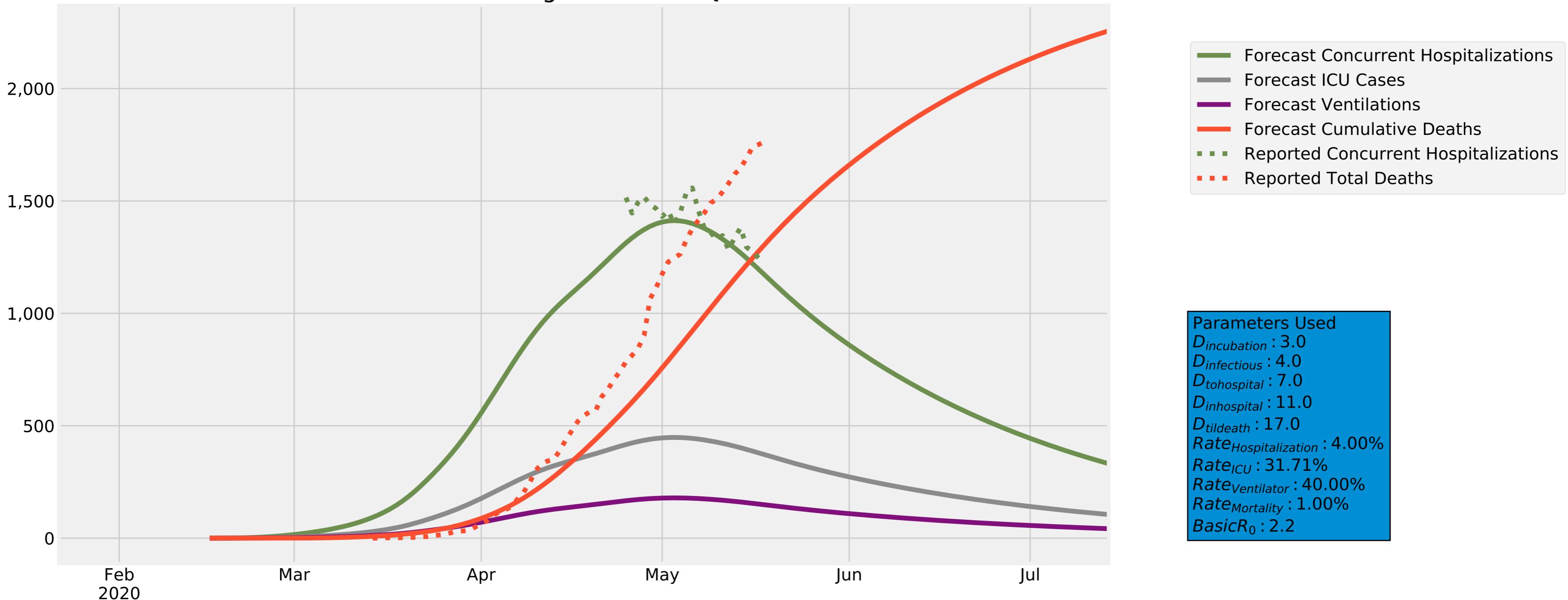
Indiana: No Change in Future R_t Scenario



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

Hospitalization and Deaths Forecast

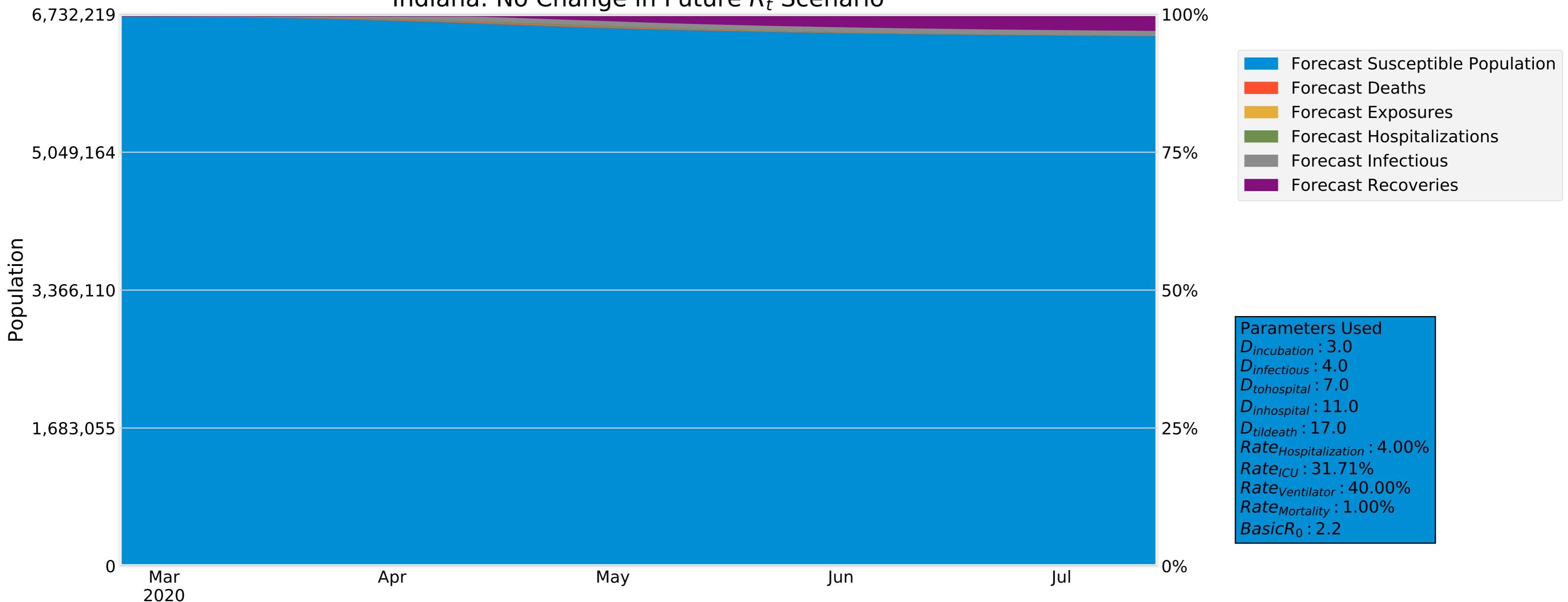
Indiana: No Change in Future R_t Scenario



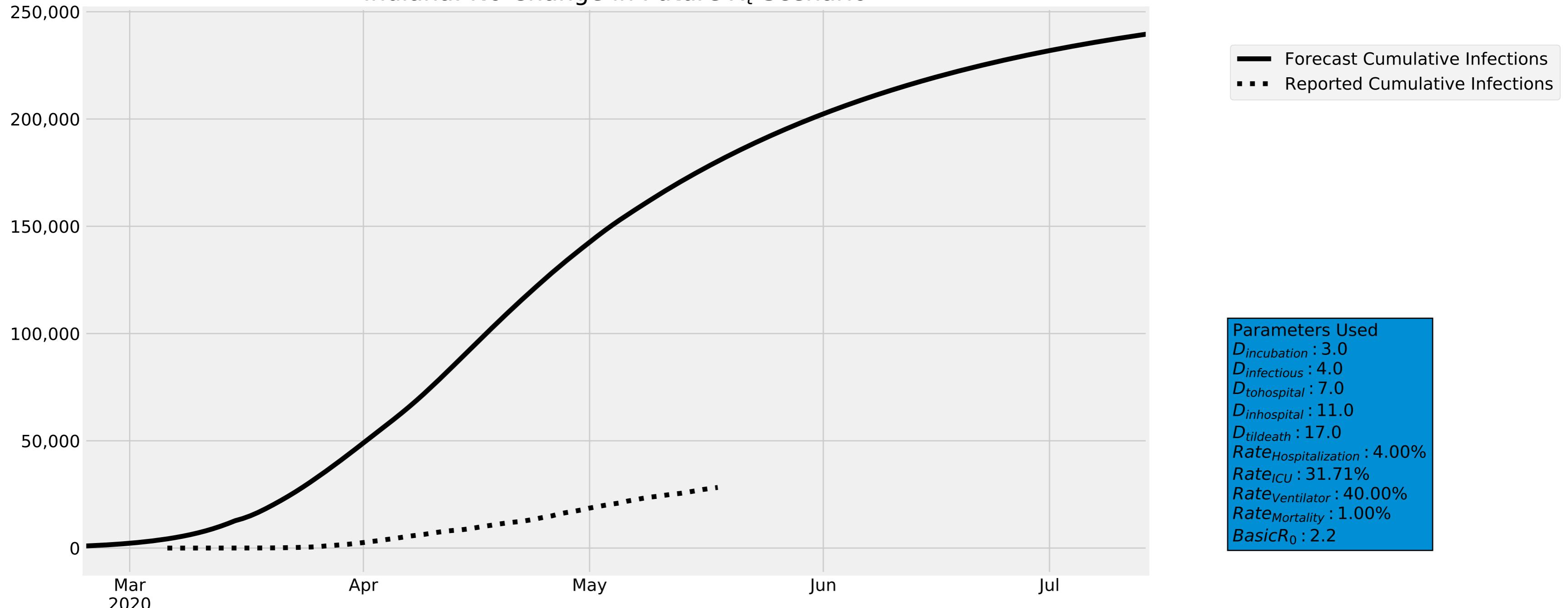
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

Indiana: No Change in Future R_t Scenario



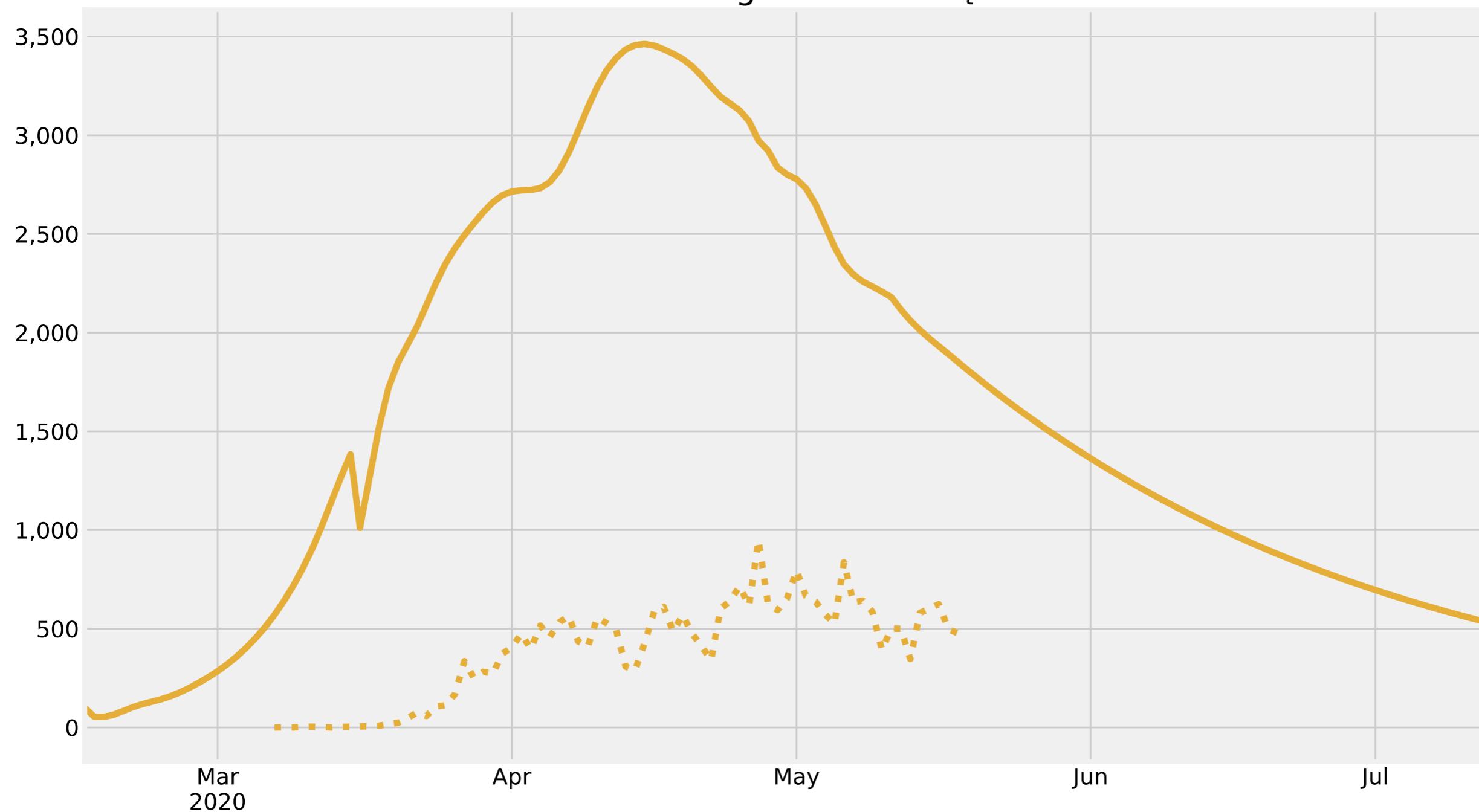
Cumulative Infections Forecast Indiana: No Change in Future R_t Scenario



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%
- $BasicR_0$: 2.2

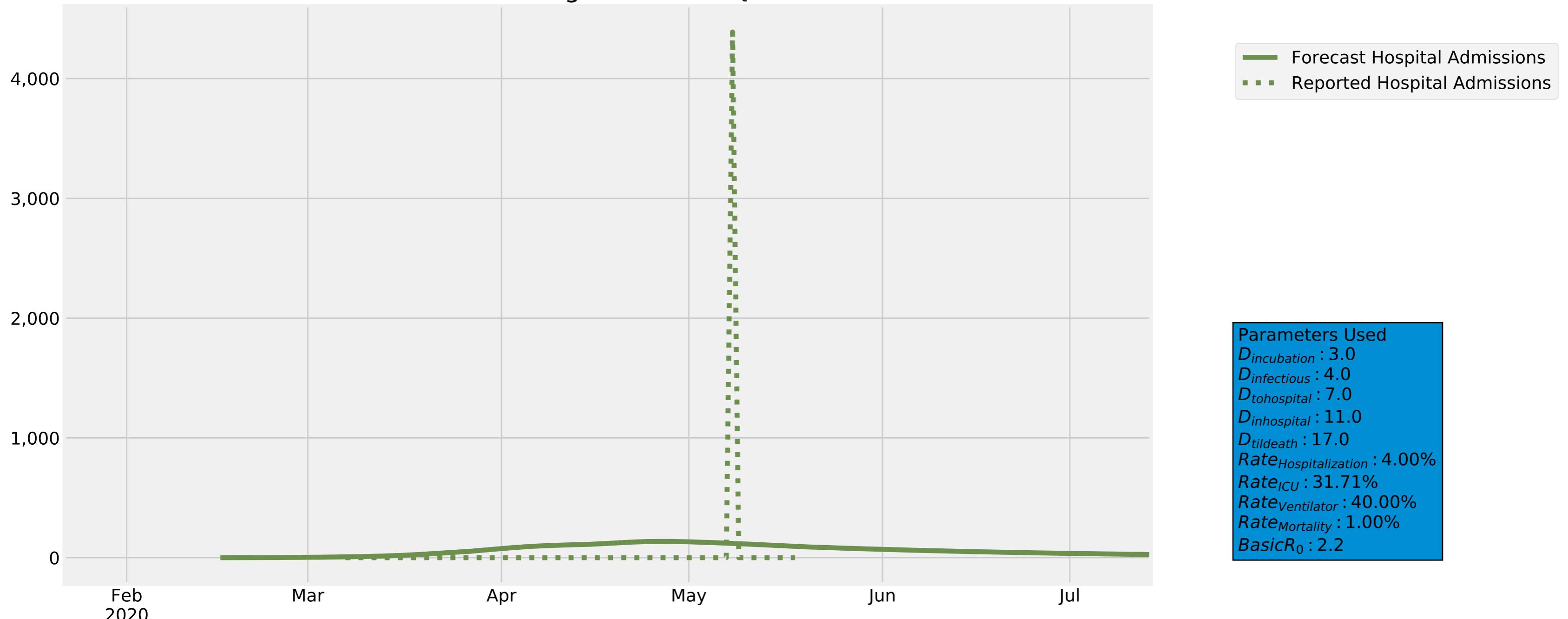
Daily Exposures Forecast Indiana: No Change in Future R_t Scenario



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%
 $BasicR_0$: 2.2

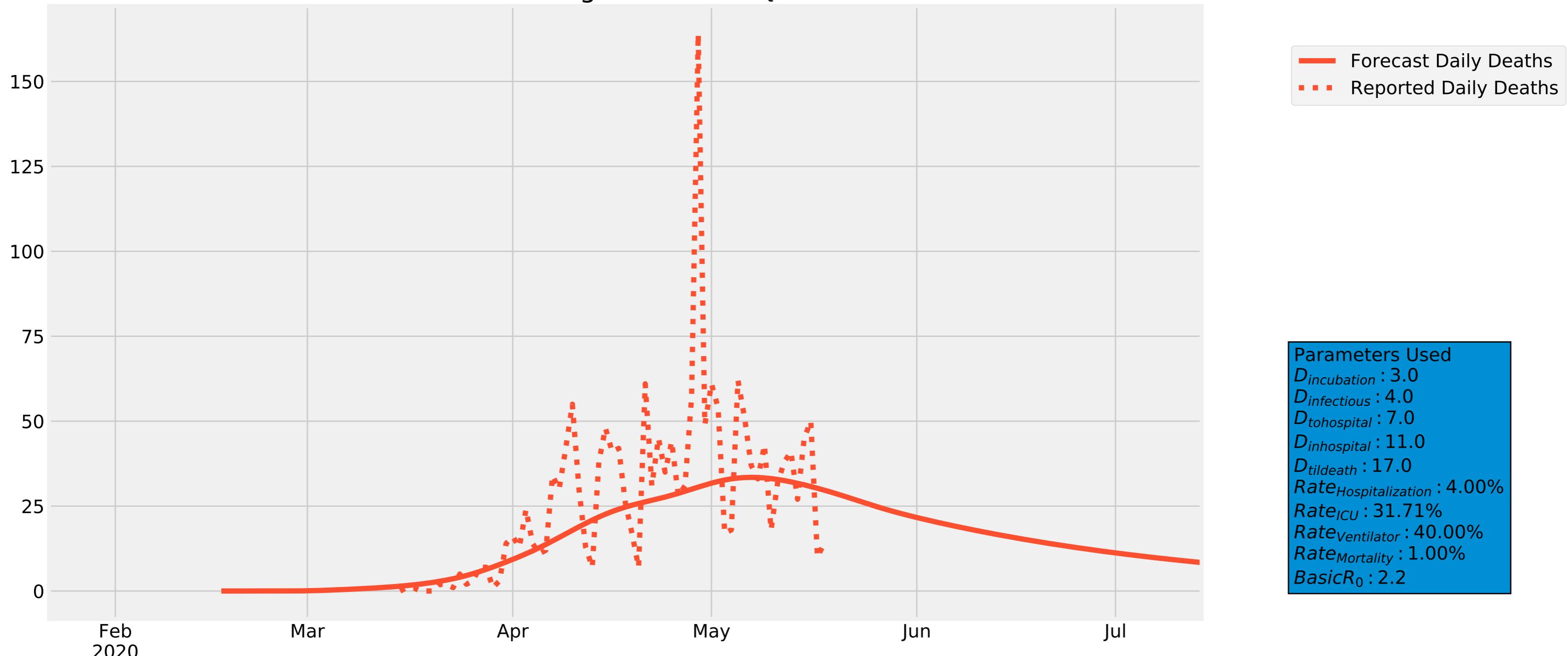
Daily Hospital Admissions Forecast Indiana: No Change in Future R_t Scenario



Parameters Used

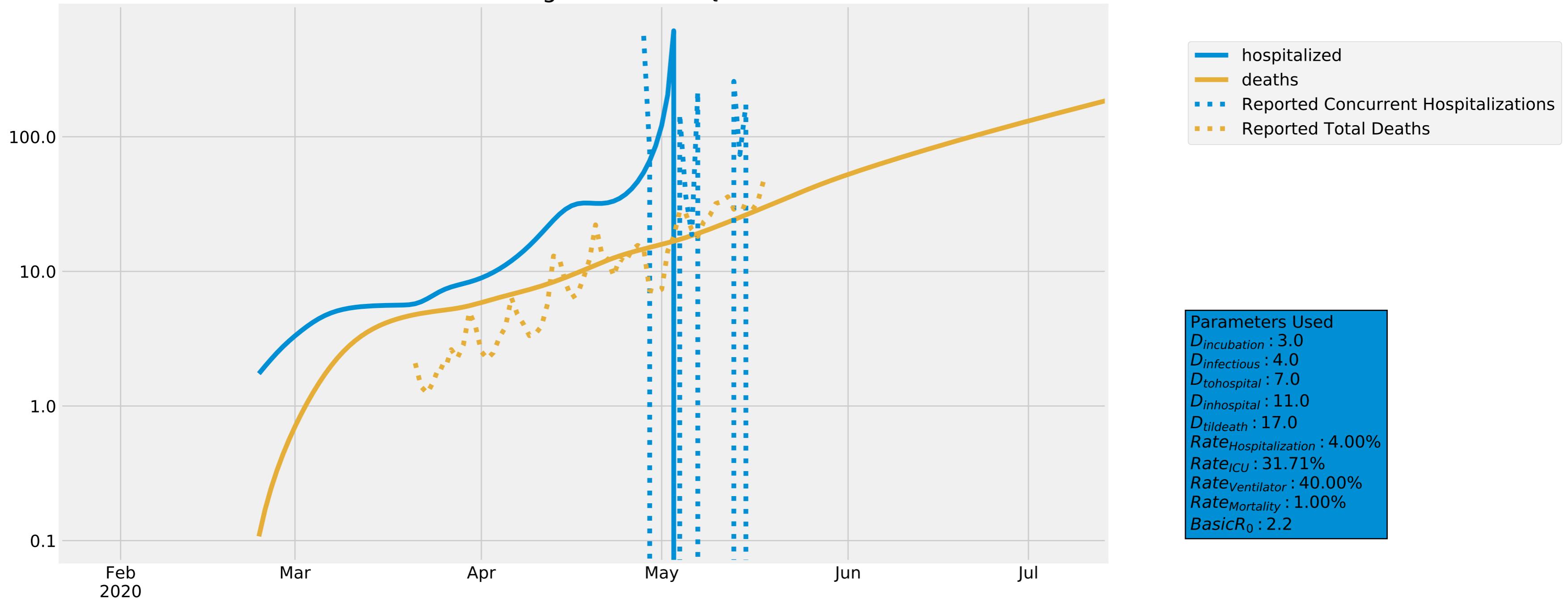
$D_{incubation}$: 3.0
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 $D_{tohospital}$: 7.0
 $D_{inhospital}$: 11.0
 $D_{tildeath}$: 17.0
 $Rate_{Hospitalization}$: 4.00%
 $Rate_{ICU}$: 31.71%
 $Rate_{Ventilator}$: 40.00%
 $Rate_{Mortality}$: 1.00%
 $BasicR_0$: 2.2

Daily Deaths Forecast Indiana: No Change in Future R_t Scenario



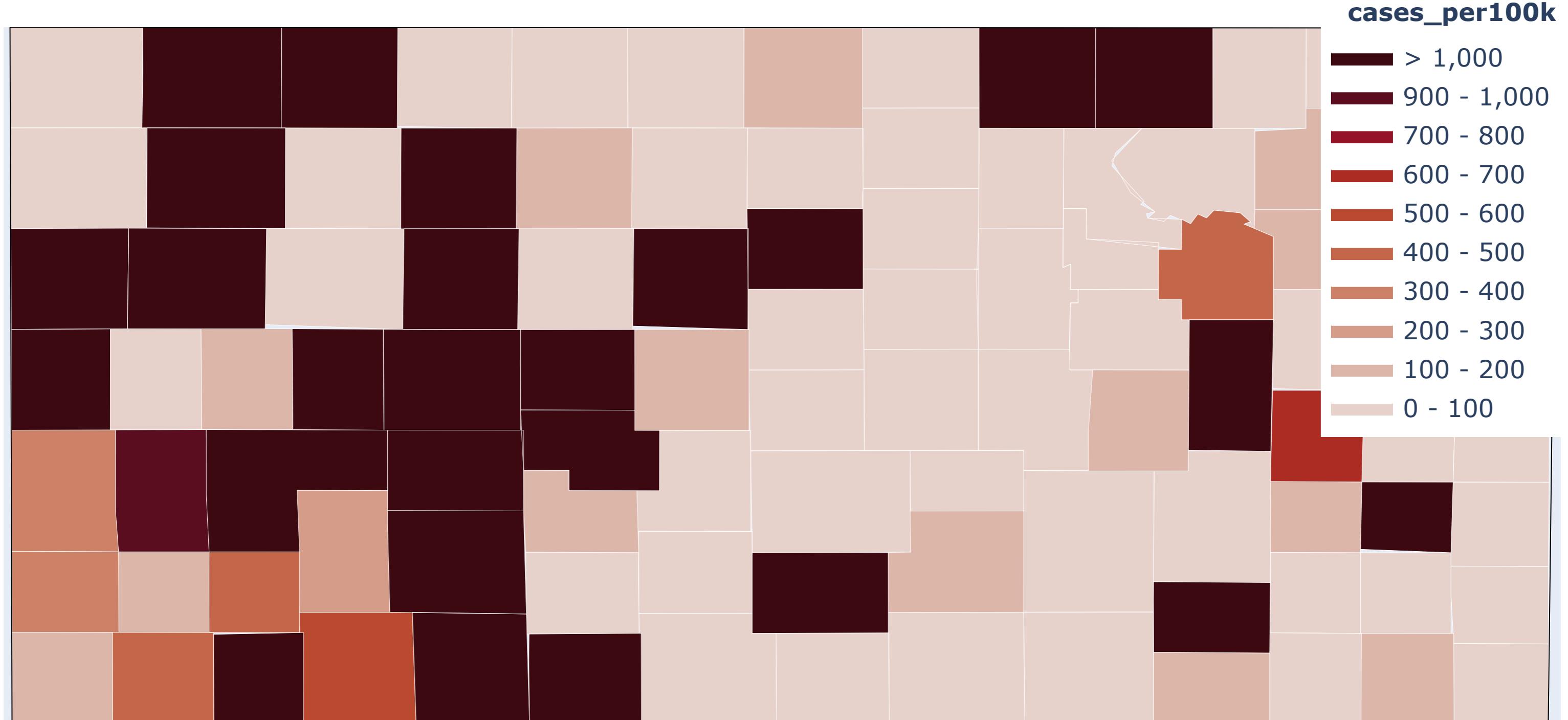
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Indiana: No Change in Future R_t Scenario

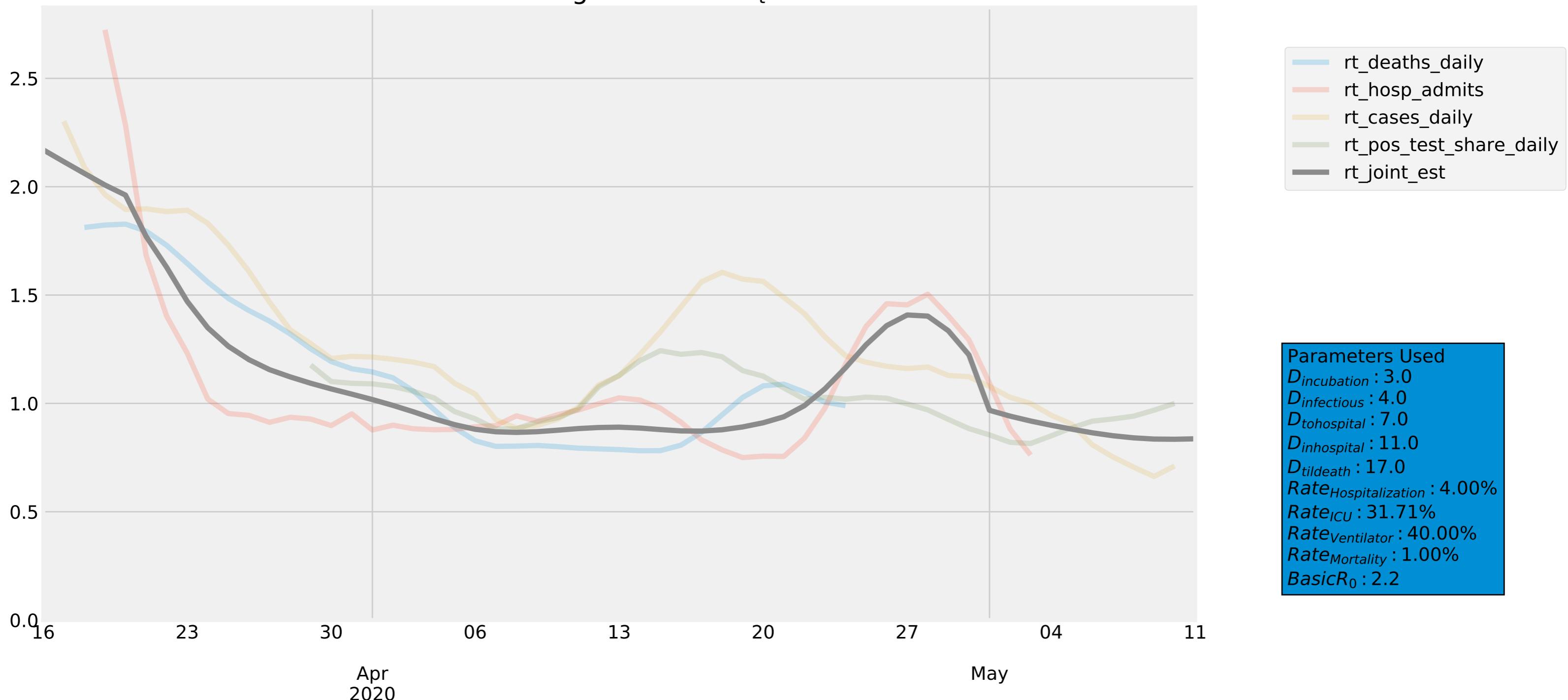


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Kansas: COVID-19 Cases Per 100k Residents



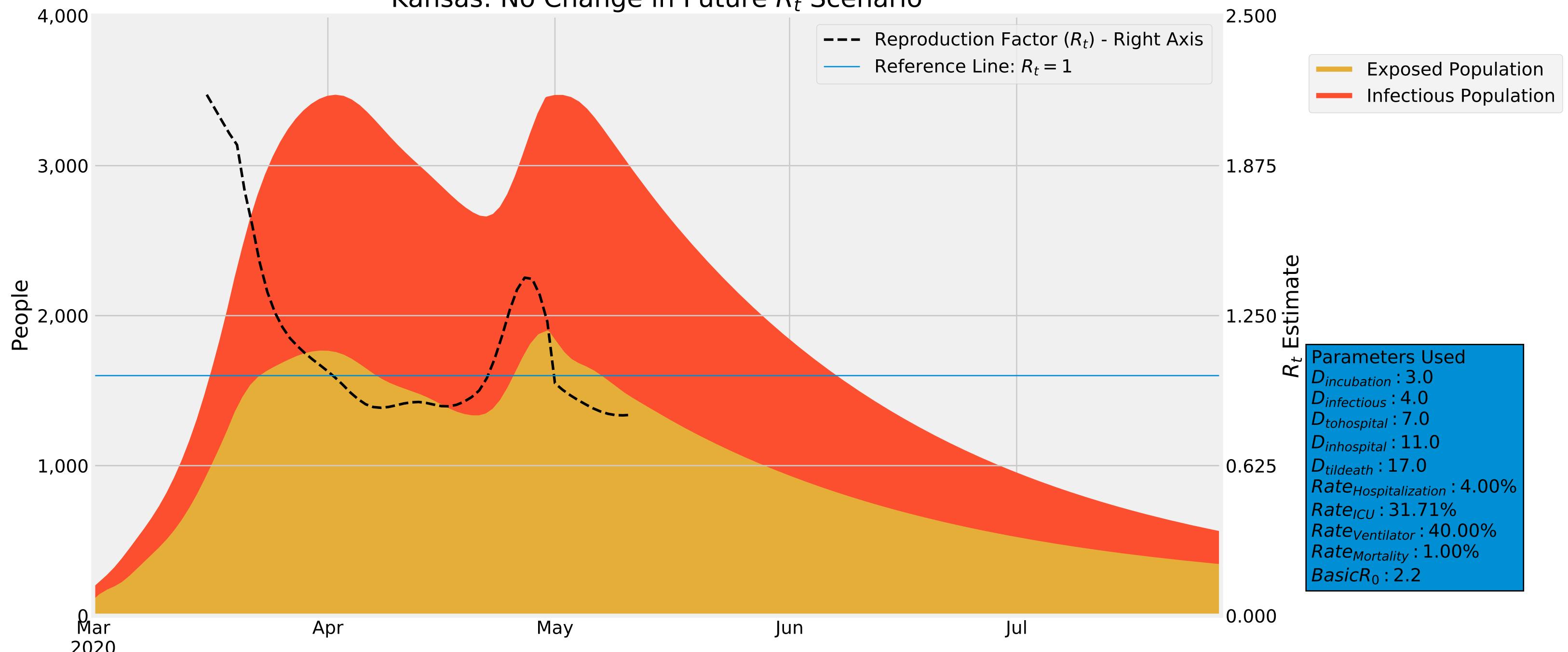
Reproduction Rate (R_t) Estimates Kansas: No Change in Future R_t Scenario



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

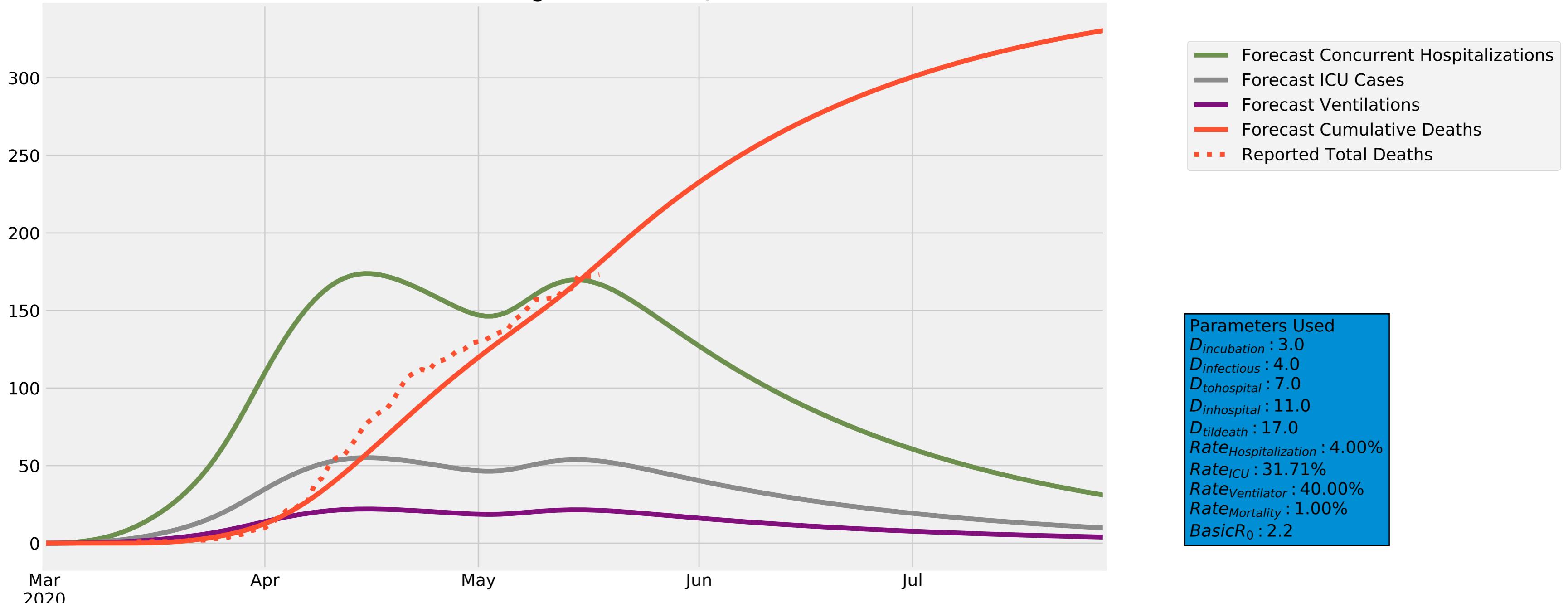
Simultaneous Infections Forecast

Kansas: No Change in Future R_t Scenario



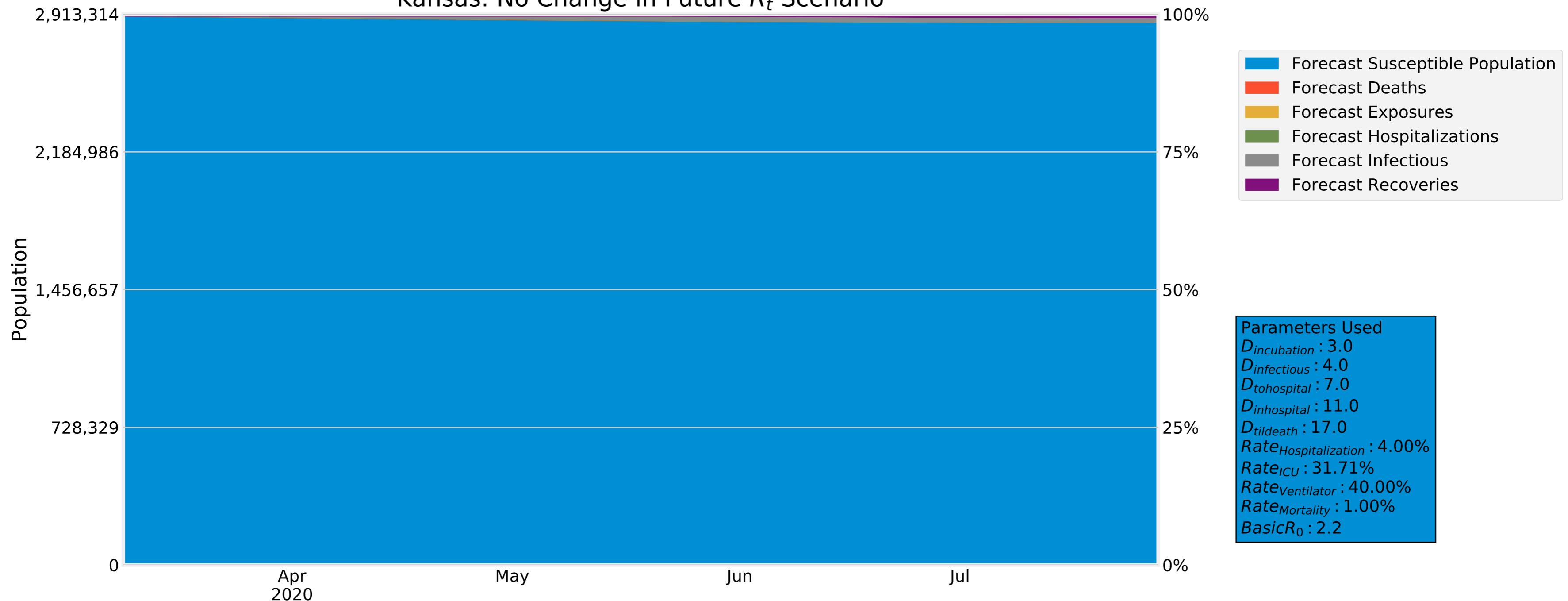
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

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

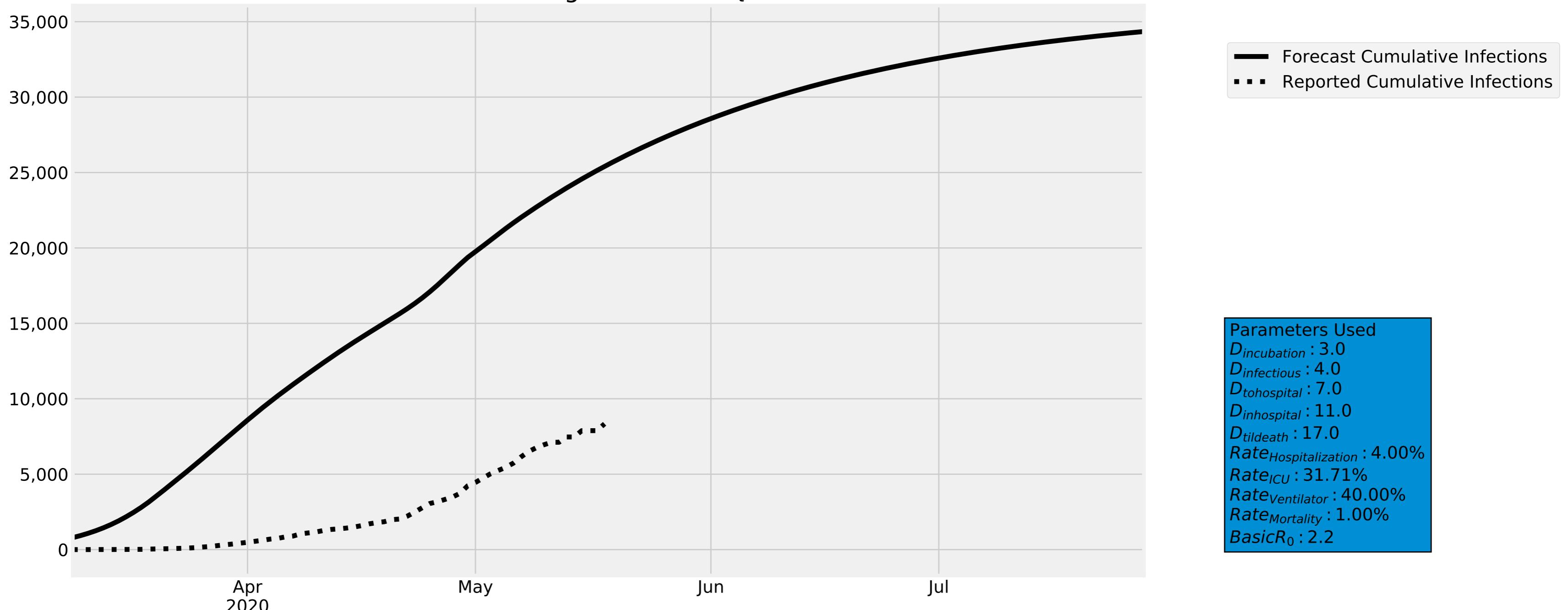


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast Kansas: No Change in Future R_t Scenario



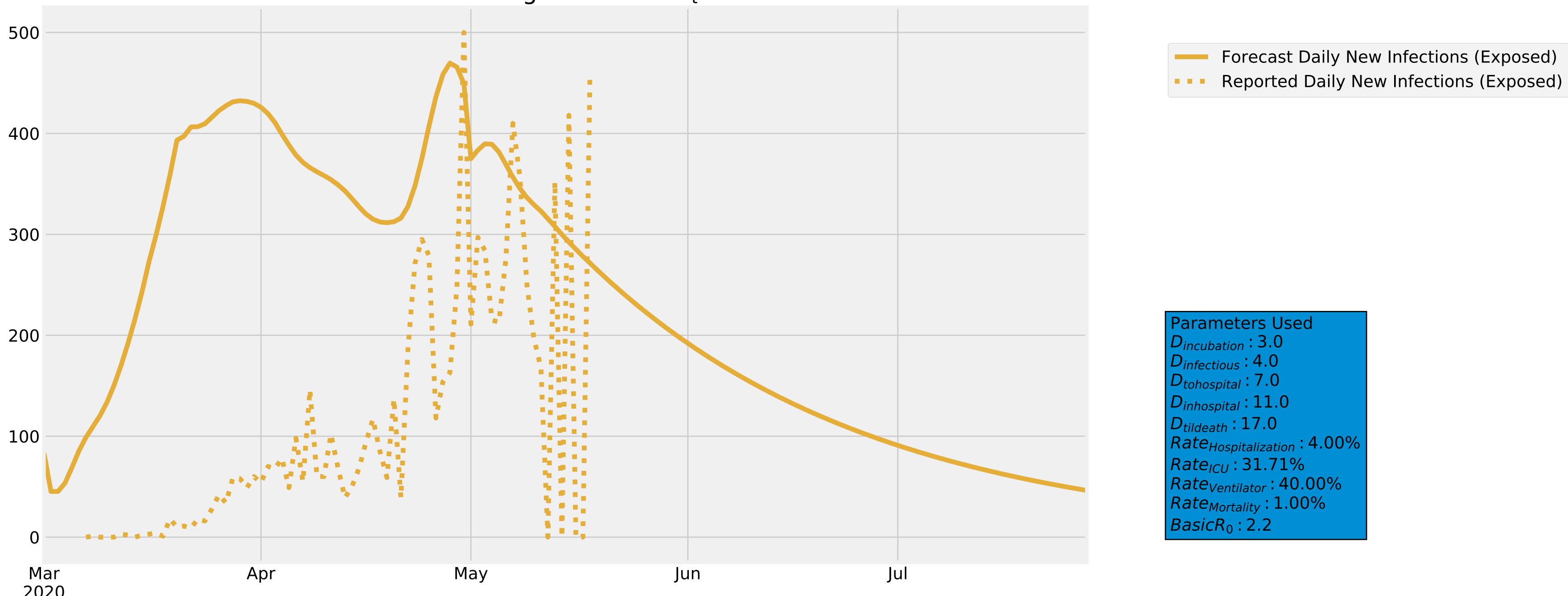
Cumulative Infections Forecast Kansas: No Change in Future R_t Scenario



Parameters Used

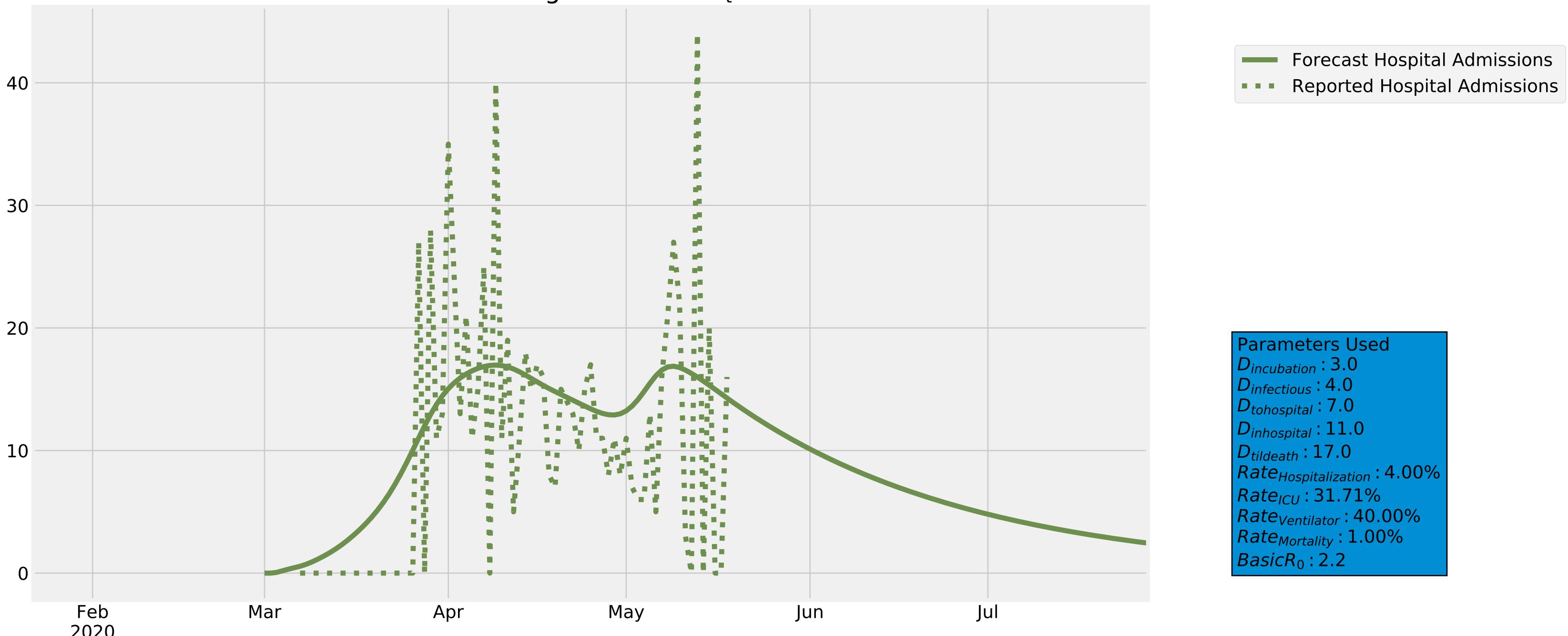
- $D_{incubation}$: 3.0
- $D_{infectious}$: 4.0
- $D_{tohospital}$: 7.0
- $D_{inhospital}$: 11.0
- $D_{tildeath}$: 17.0
- $Rate_{Hospitalization}$: 4.00%
- $Rate_{ICU}$: 31.71%
- $Rate_{Ventilator}$: 40.00%
- $Rate_{Mortality}$: 1.00%
- $BasicR_0$: 2.2

Daily Exposures Forecast Kansas: No Change in Future R_t Scenario



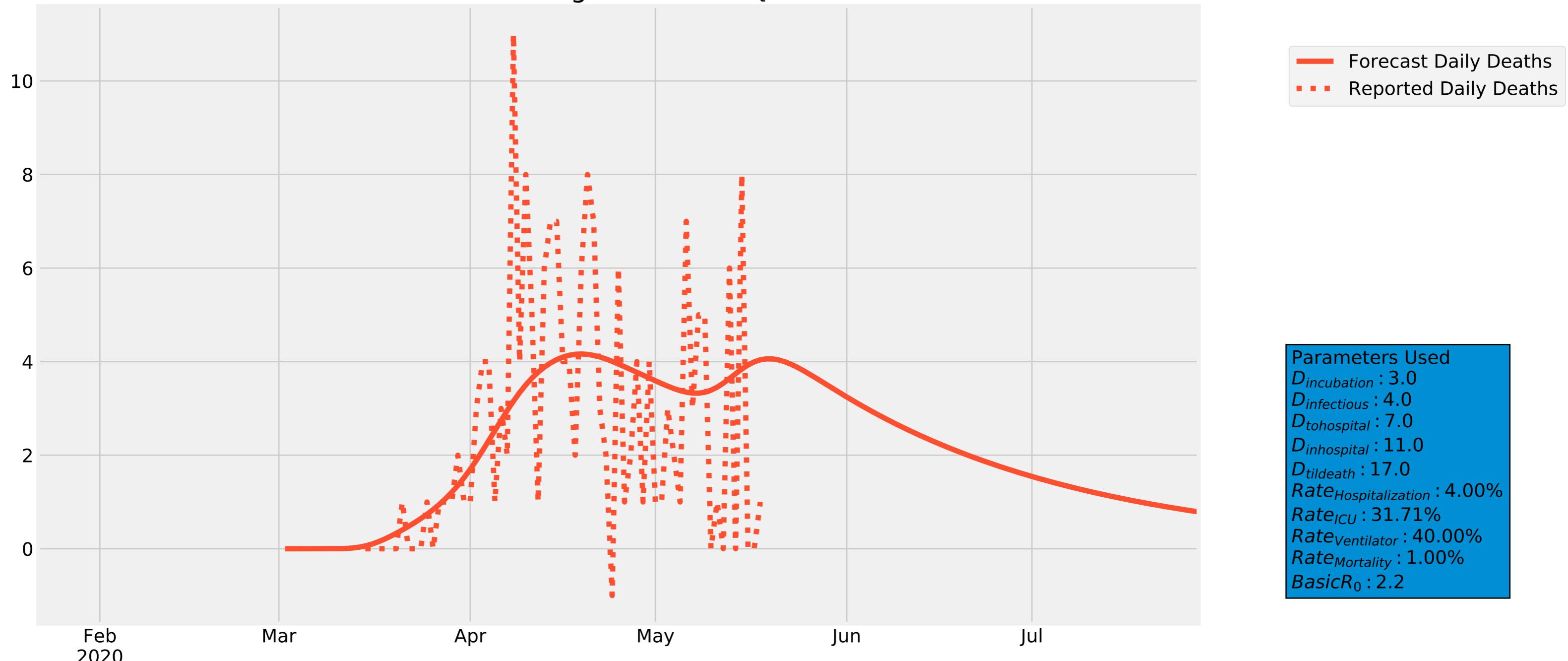
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

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



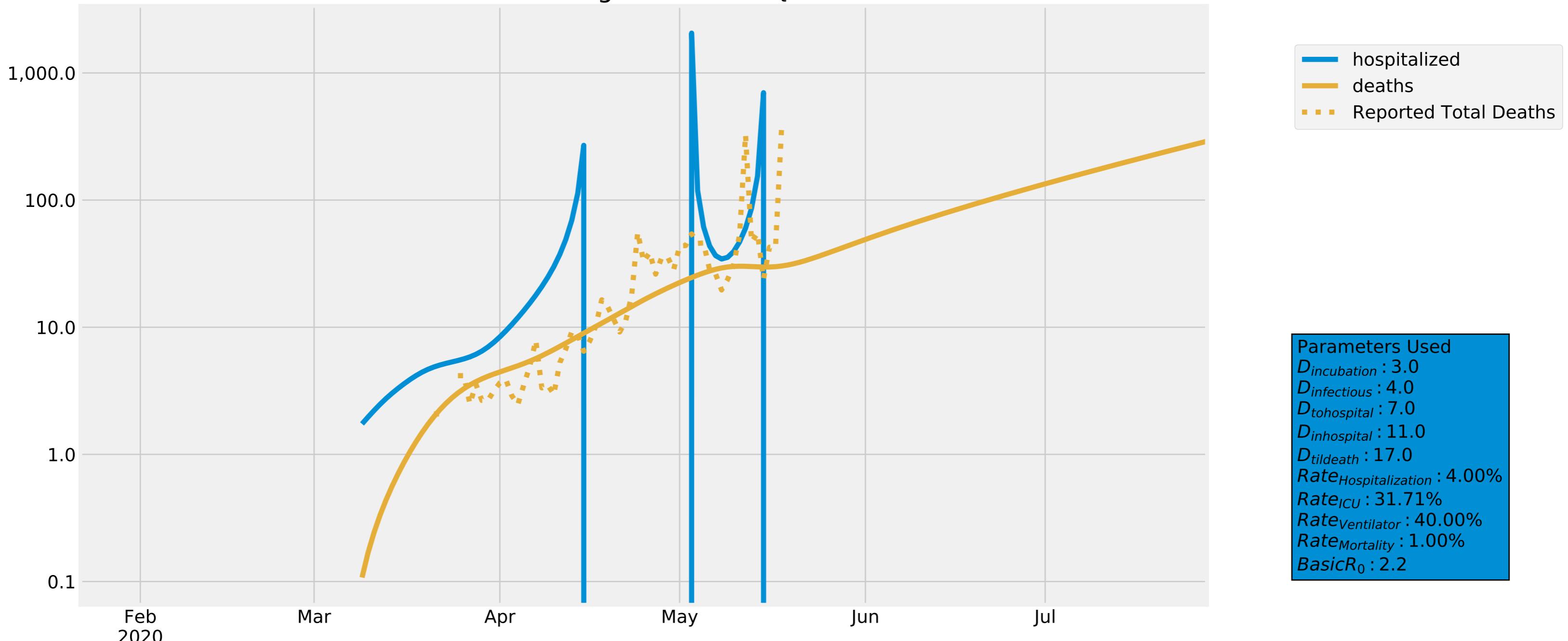
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Daily Deaths Forecast Kansas: No Change in Future R_t Scenario



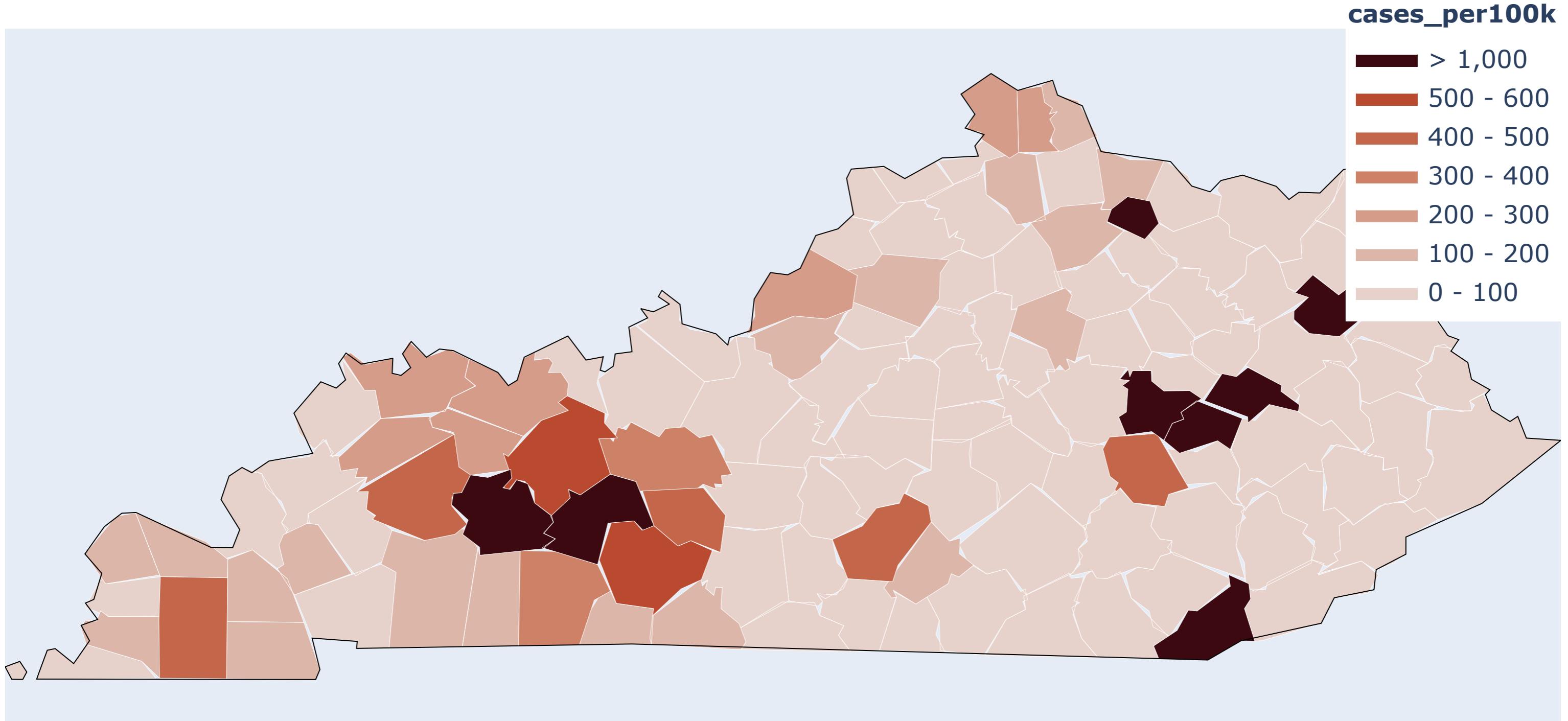
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Kansas: No Change in Future R_t Scenario

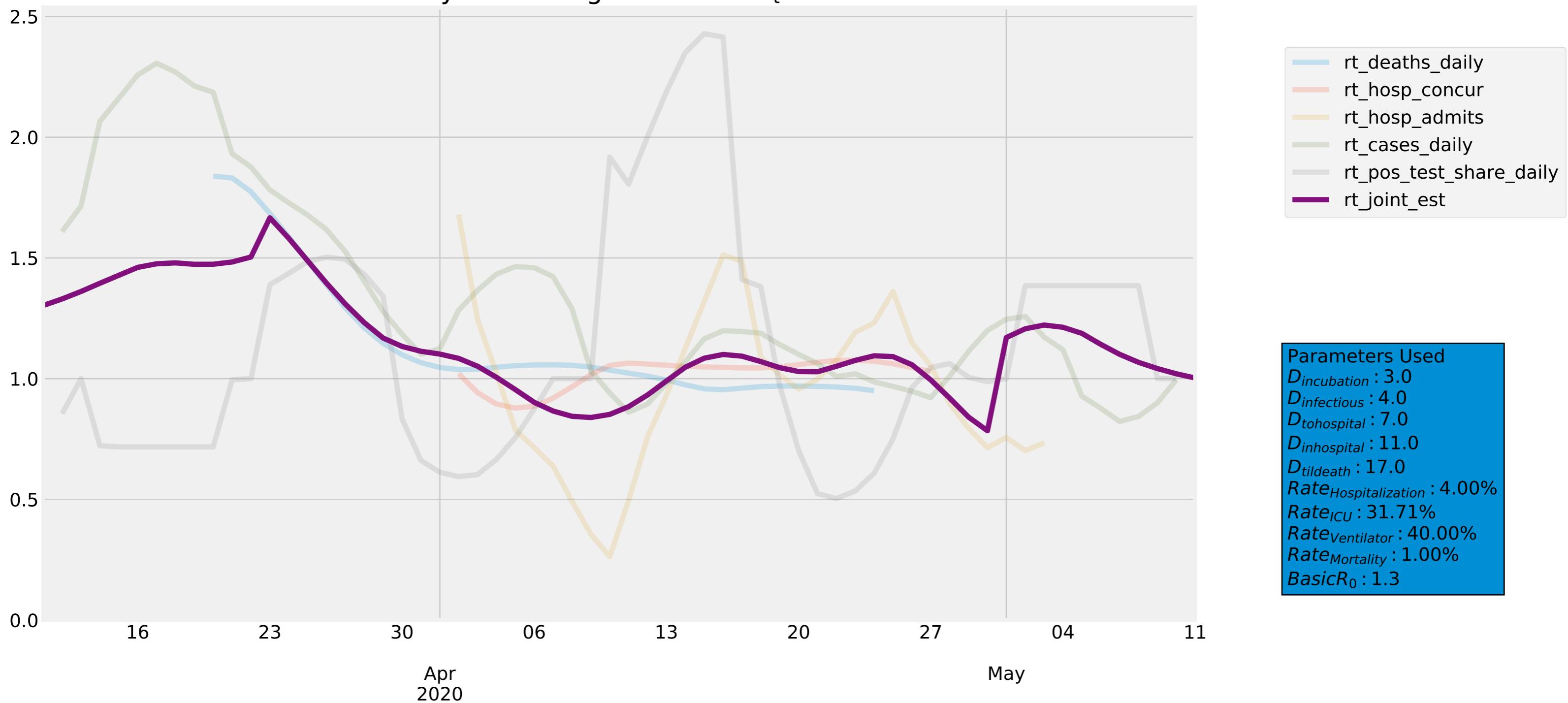


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Kentucky: COVID-19 Cases Per 100k Residents



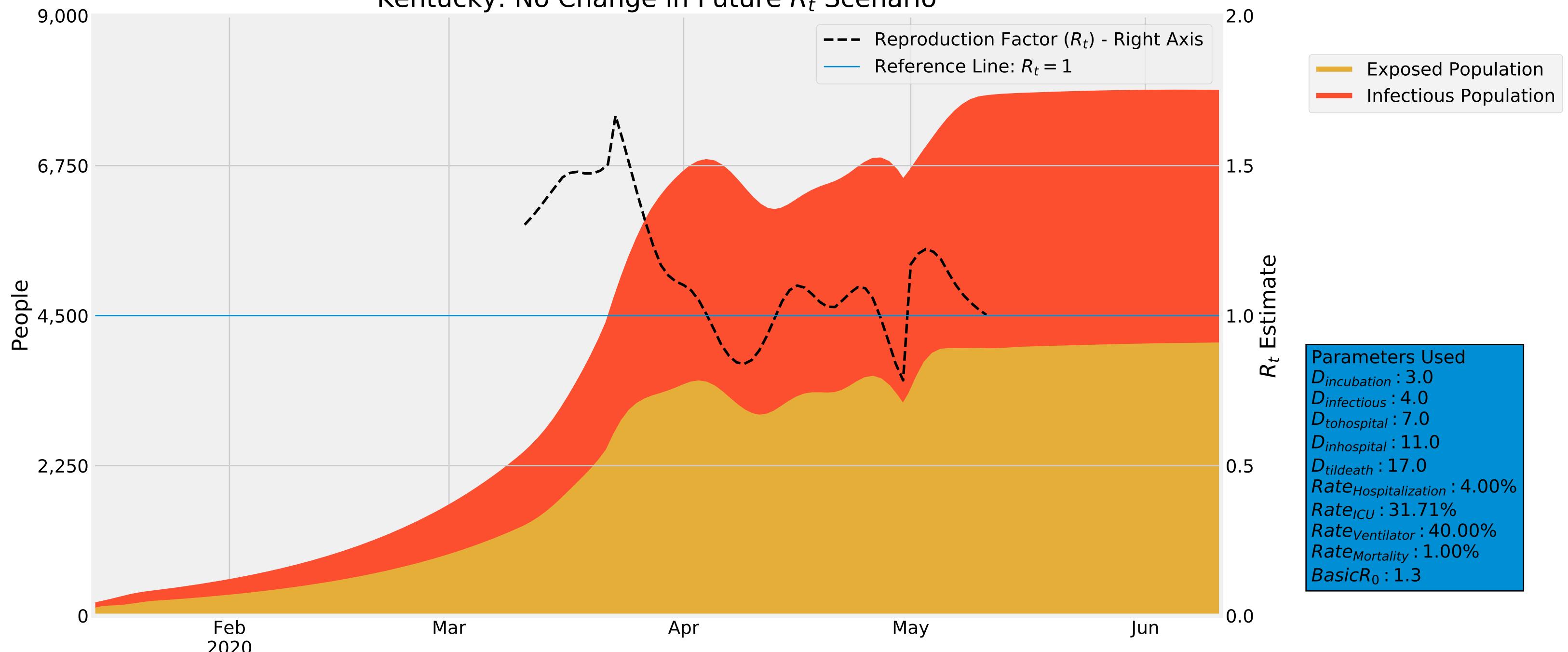
Reproduction Rate (R_t) Estimates Kentucky: No Change in Future R_t Scenario



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

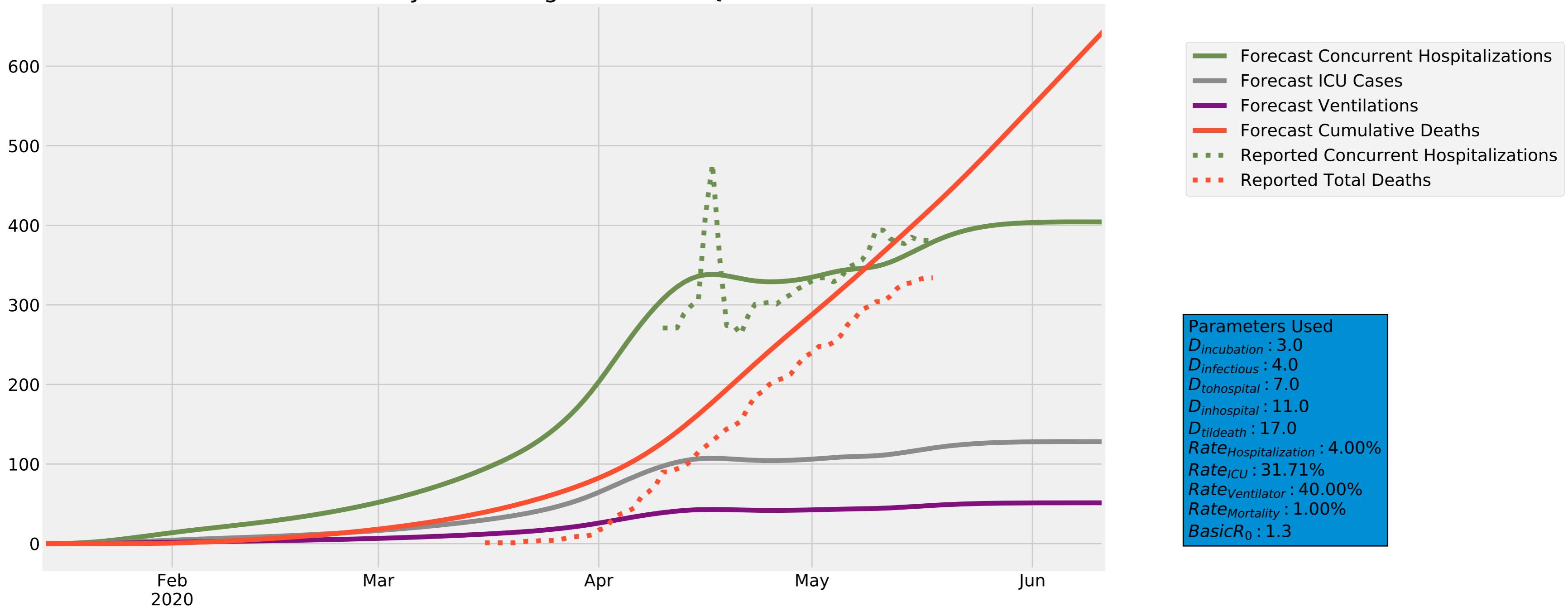
Simultaneous Infections Forecast

Kentucky: No Change in Future R_t Scenario



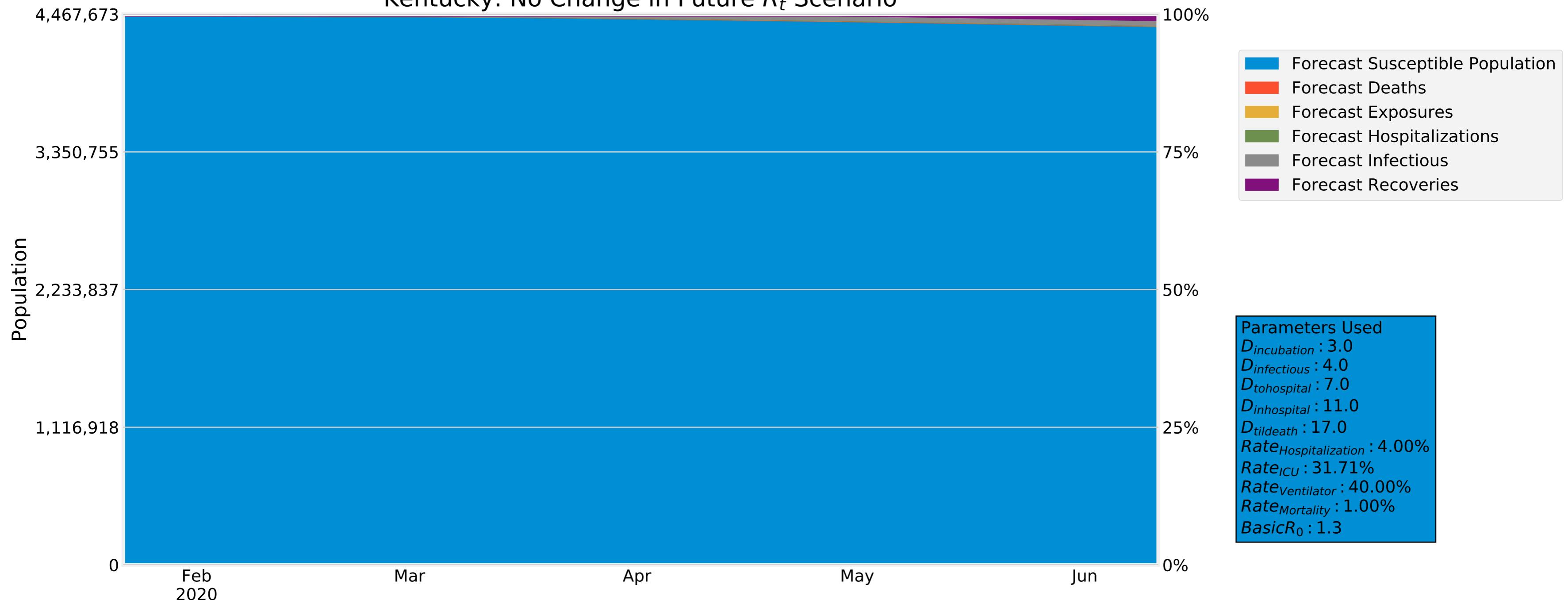
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

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

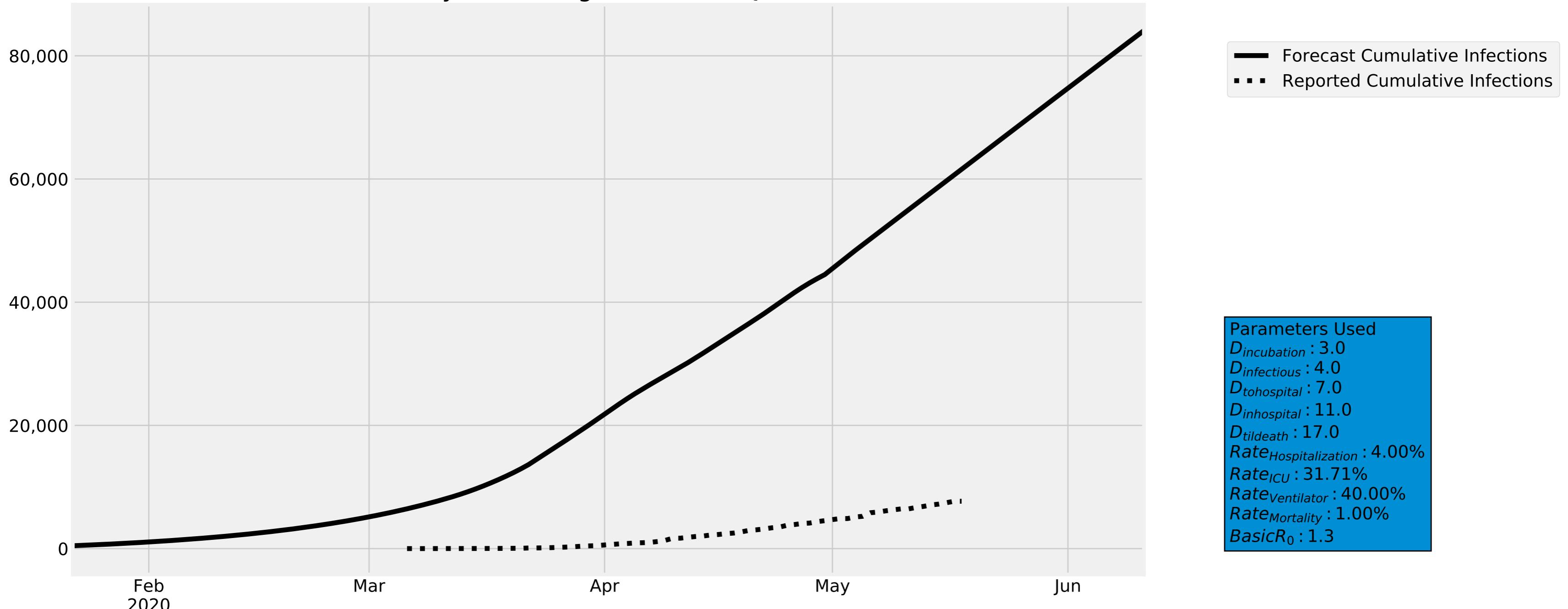


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast Kentucky: No Change in Future R_t Scenario



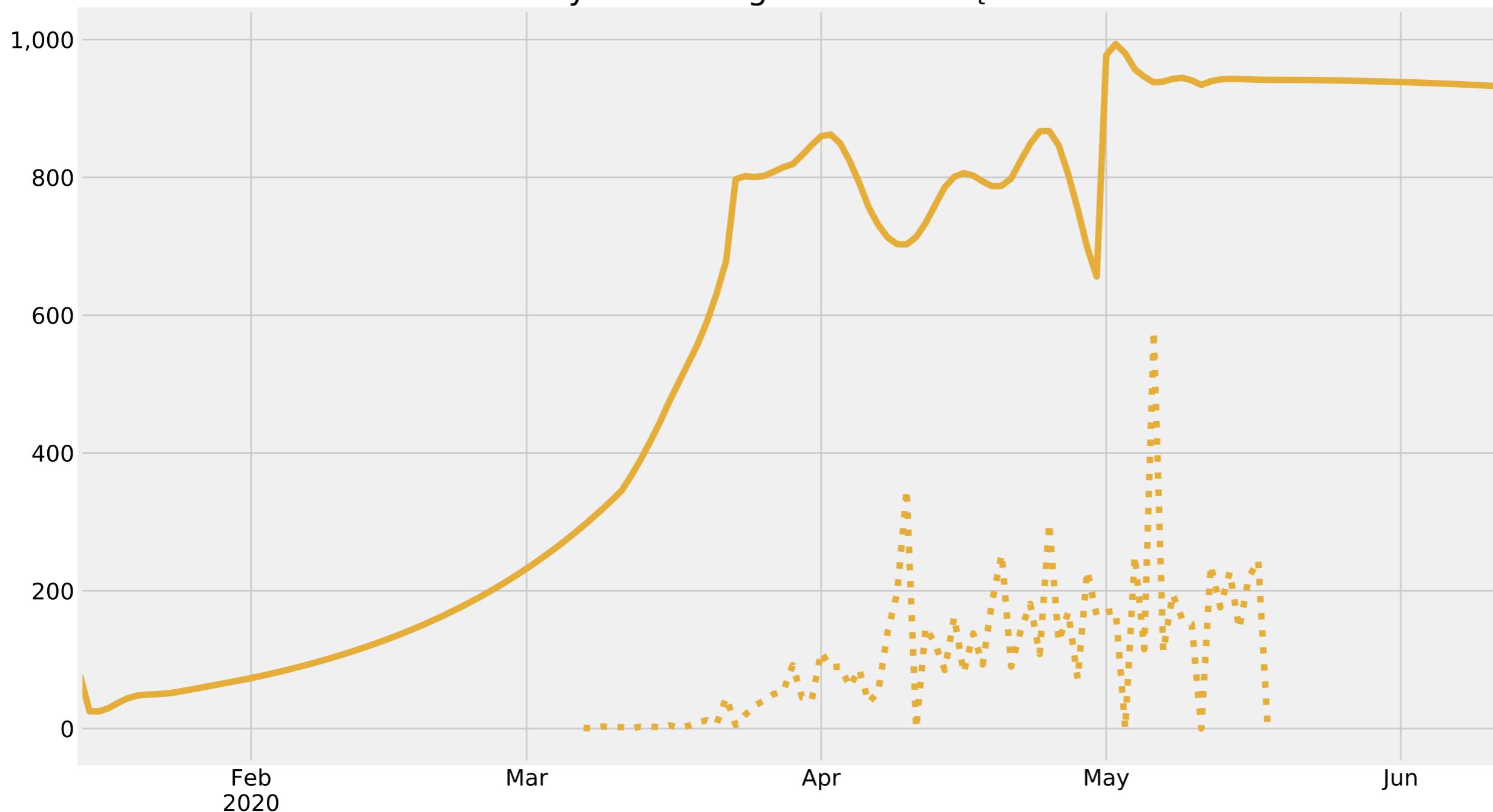
Cumulative Infections Forecast Kentucky: No Change in Future R_t Scenario



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%
- $BasicR_0$: 1.3

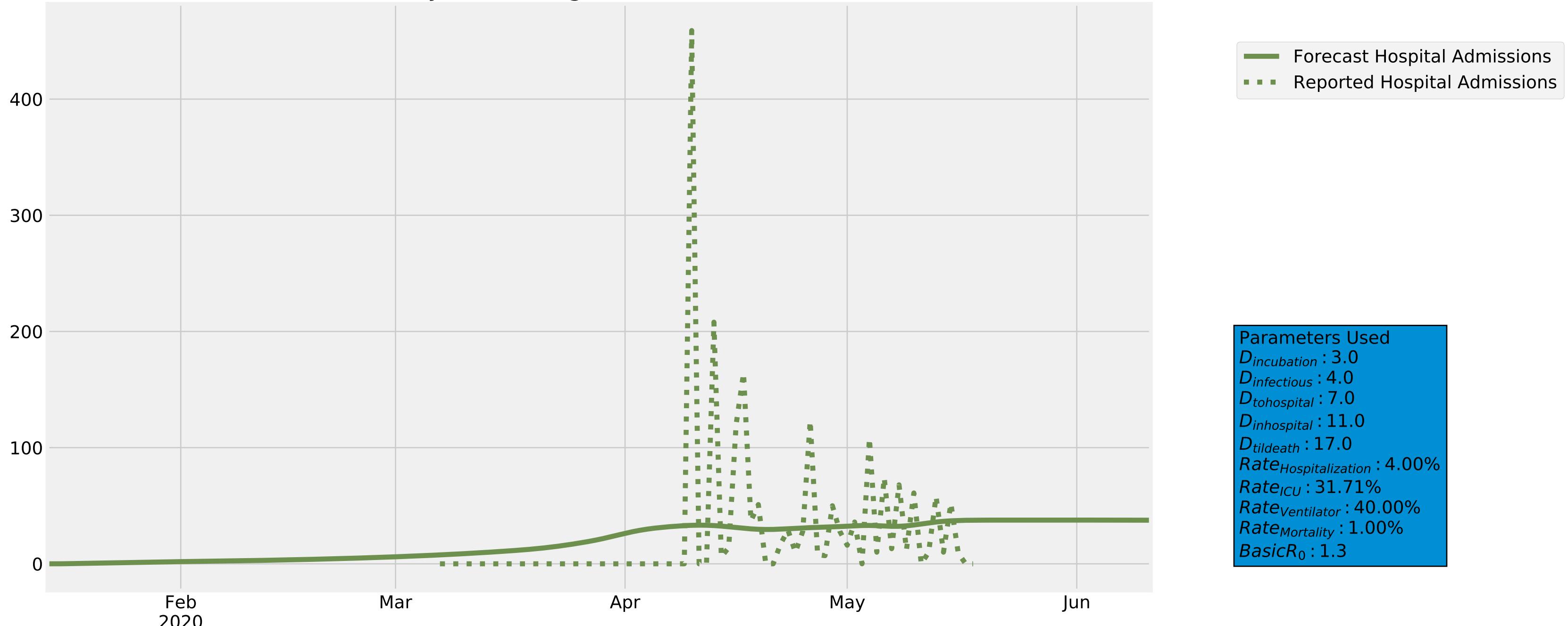
Daily Exposures Forecast Kentucky: No Change in Future R_t Scenario



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%
Basic R_0 :	1.3

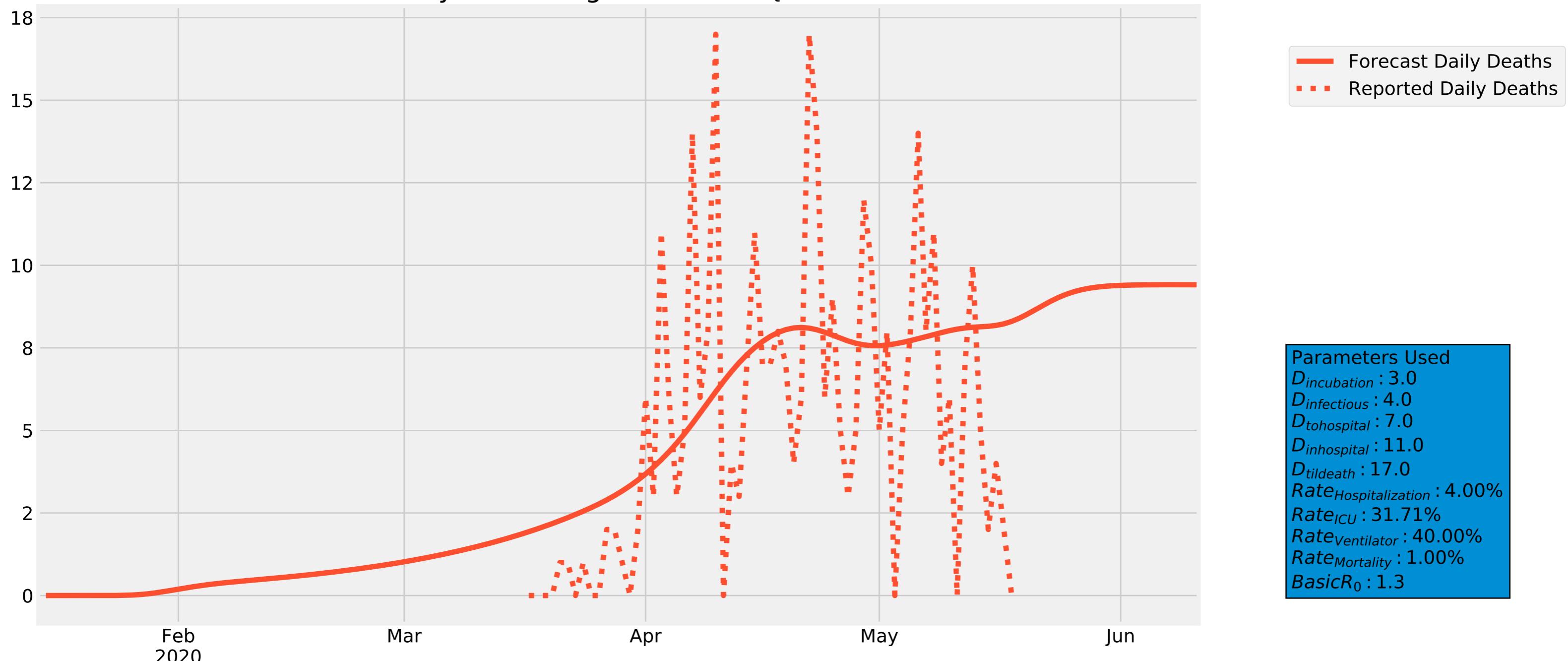
Daily Hospital Admissions Forecast Kentucky: No Change in Future R_t Scenario



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

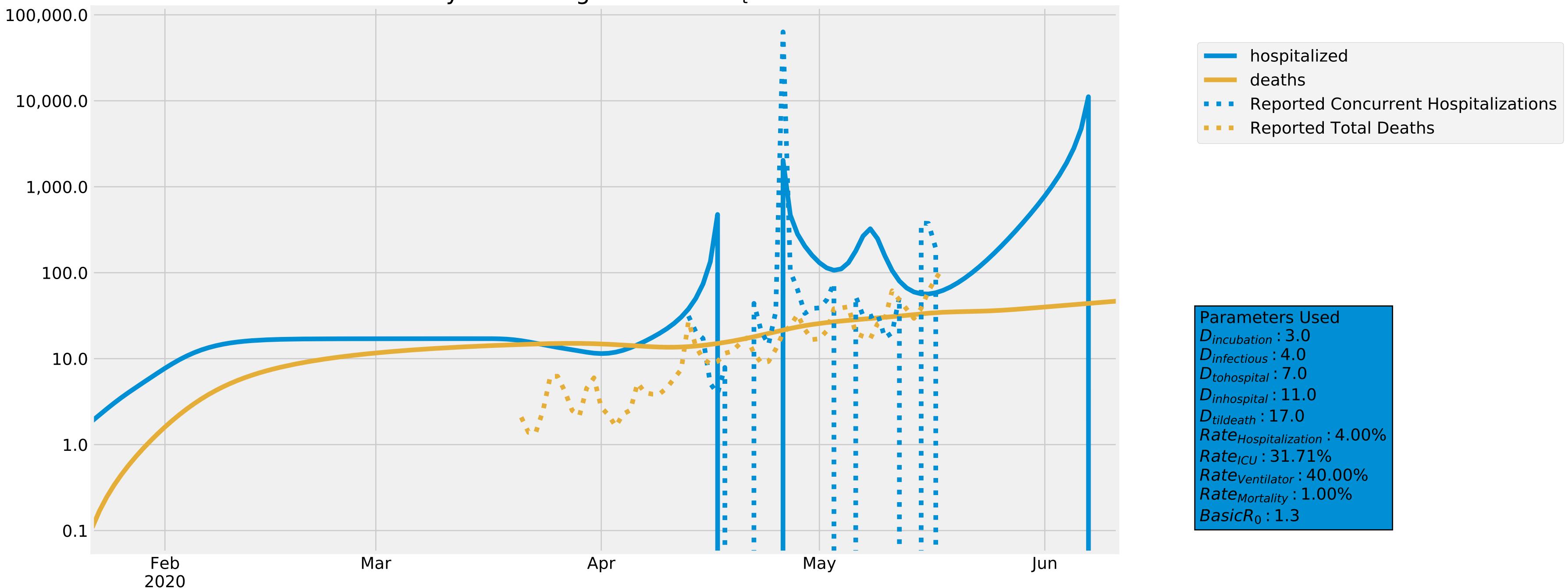
Daily Deaths Forecast

Kentucky: No Change in Future R_t Scenario



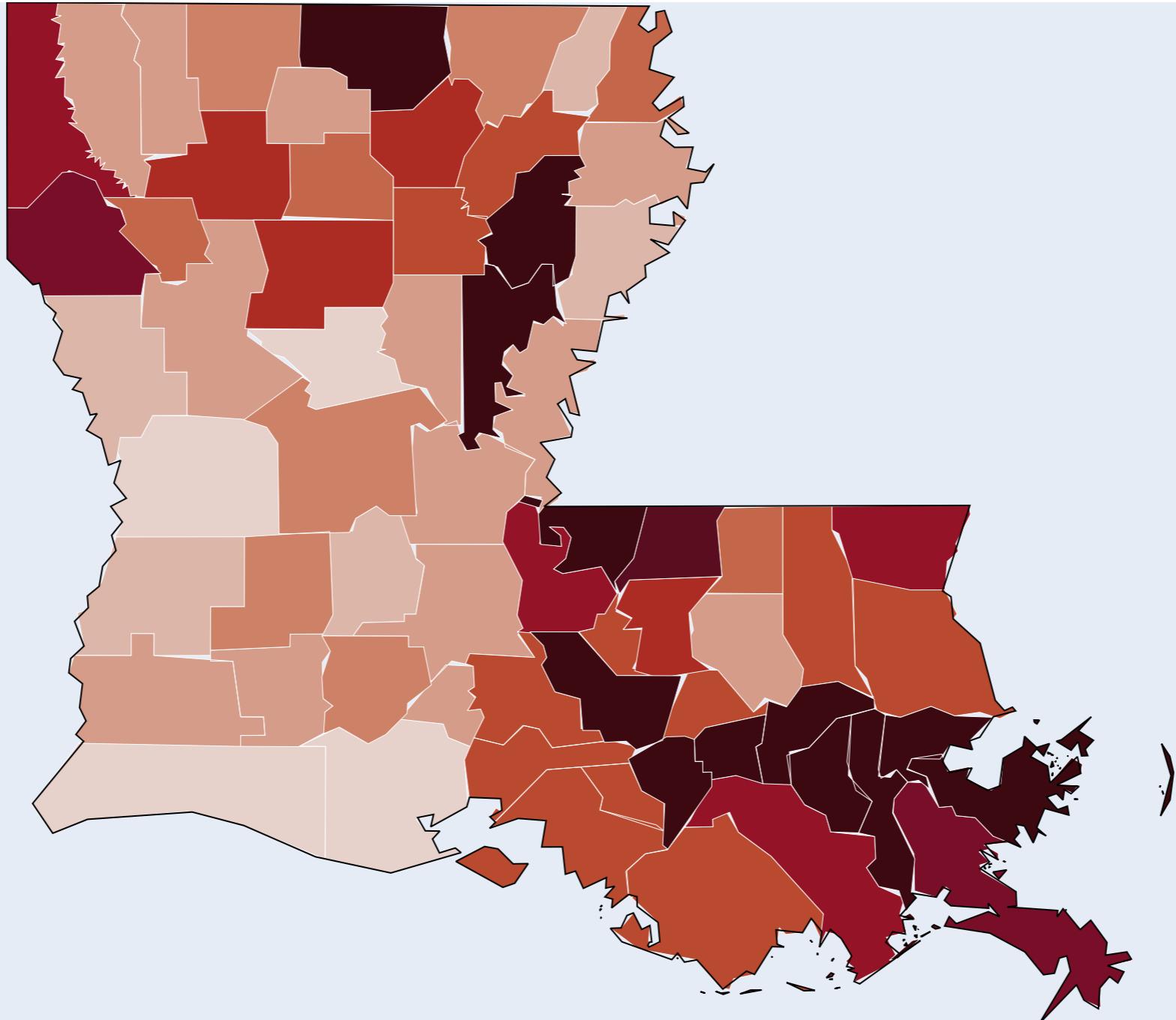
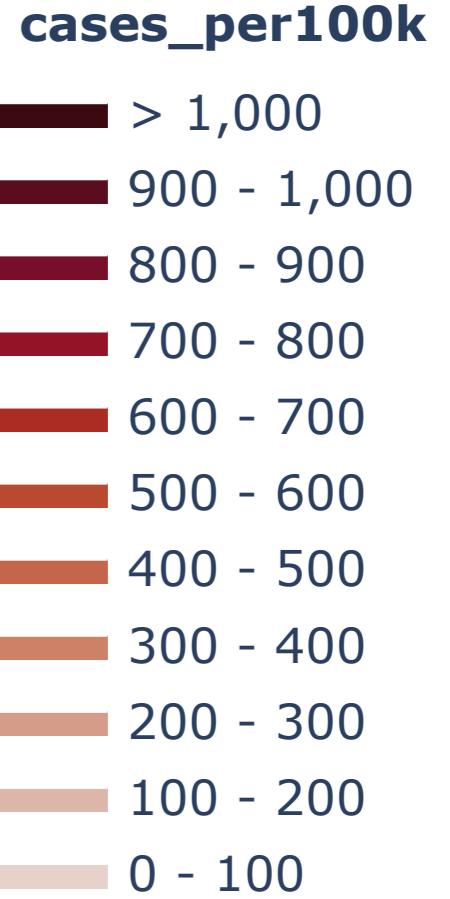
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Kentucky: No Change in Future R_t Scenario

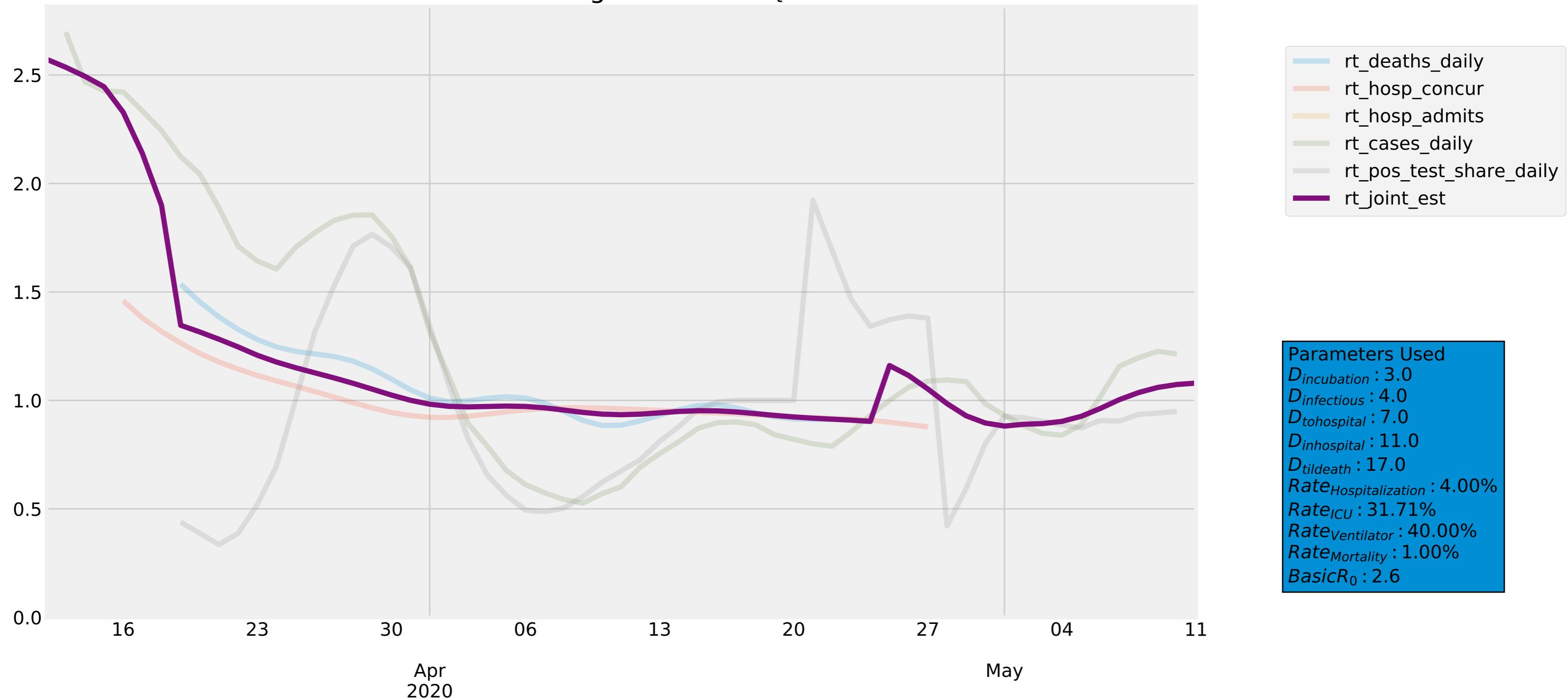


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Louisiana: COVID-19 Cases Per 100k Residents



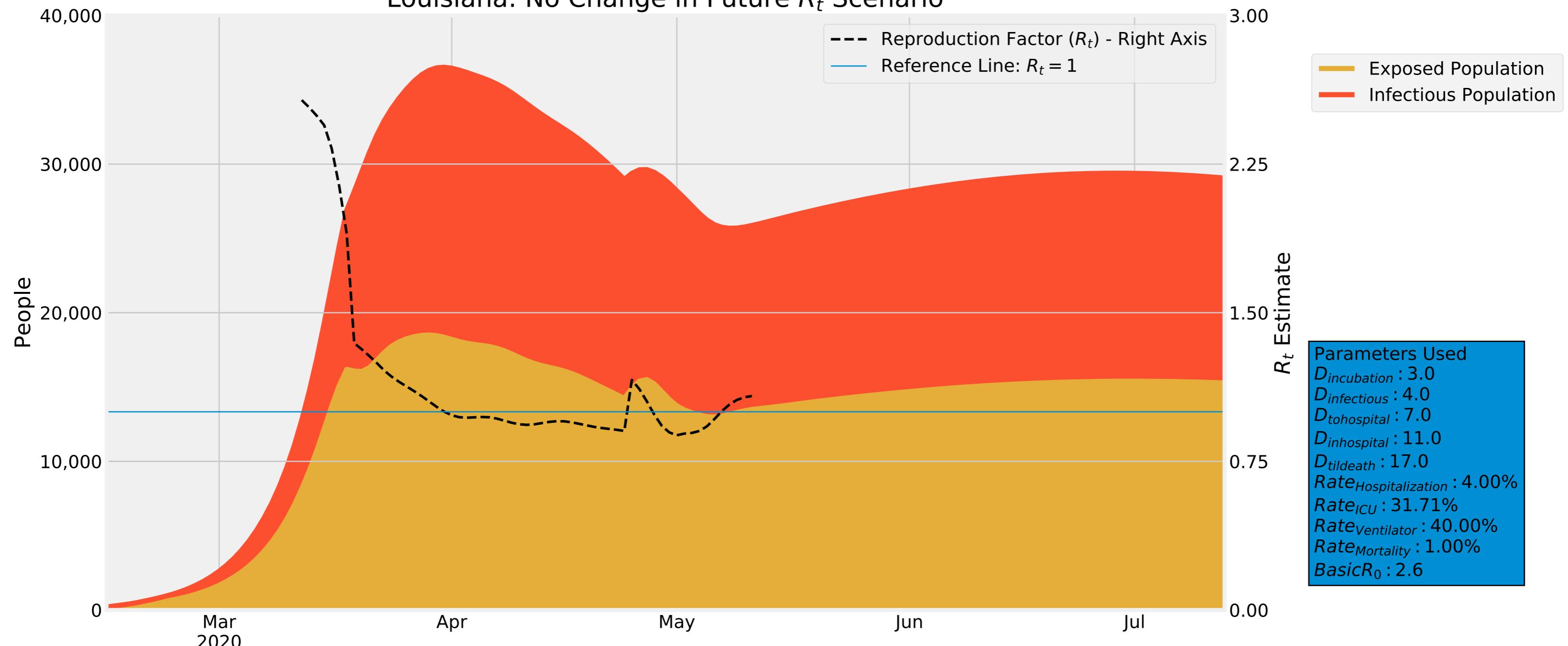
Reproduction Rate (R_t) Estimates Louisiana: No Change in Future R_t Scenario



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

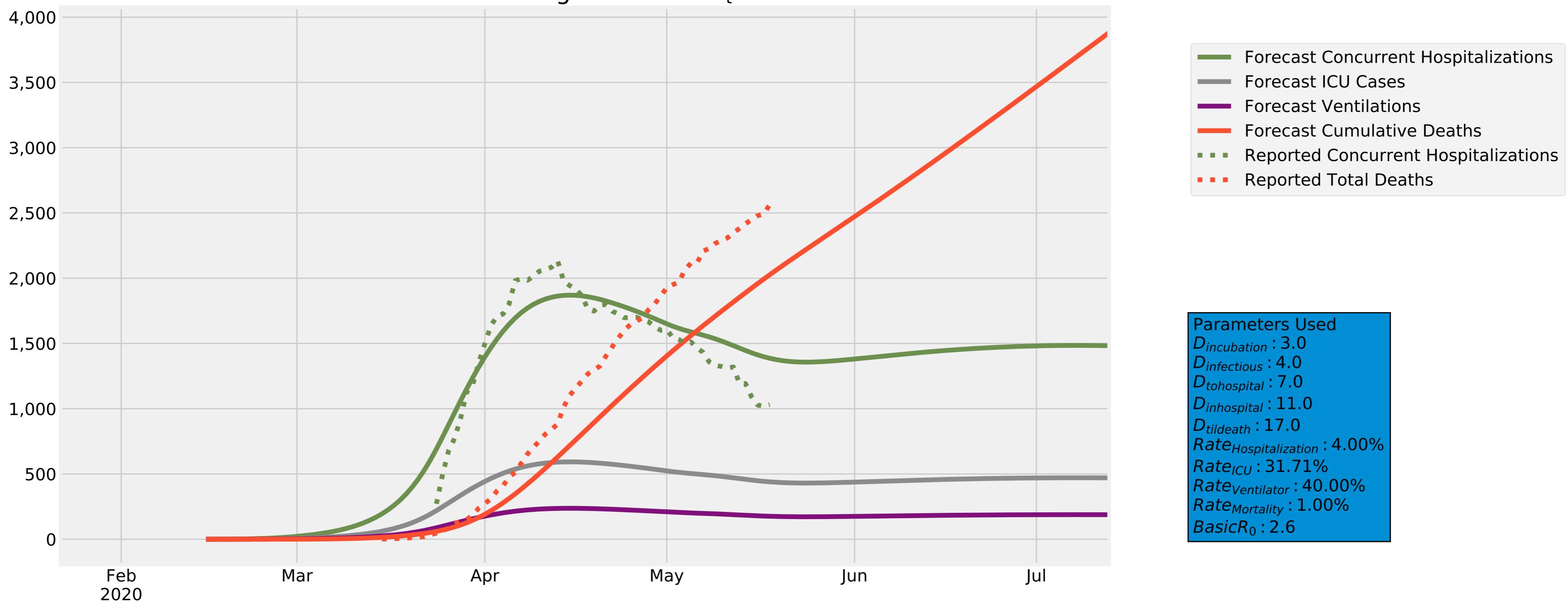
Simultaneous Infections Forecast

Louisiana: No Change in Future R_t Scenario



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

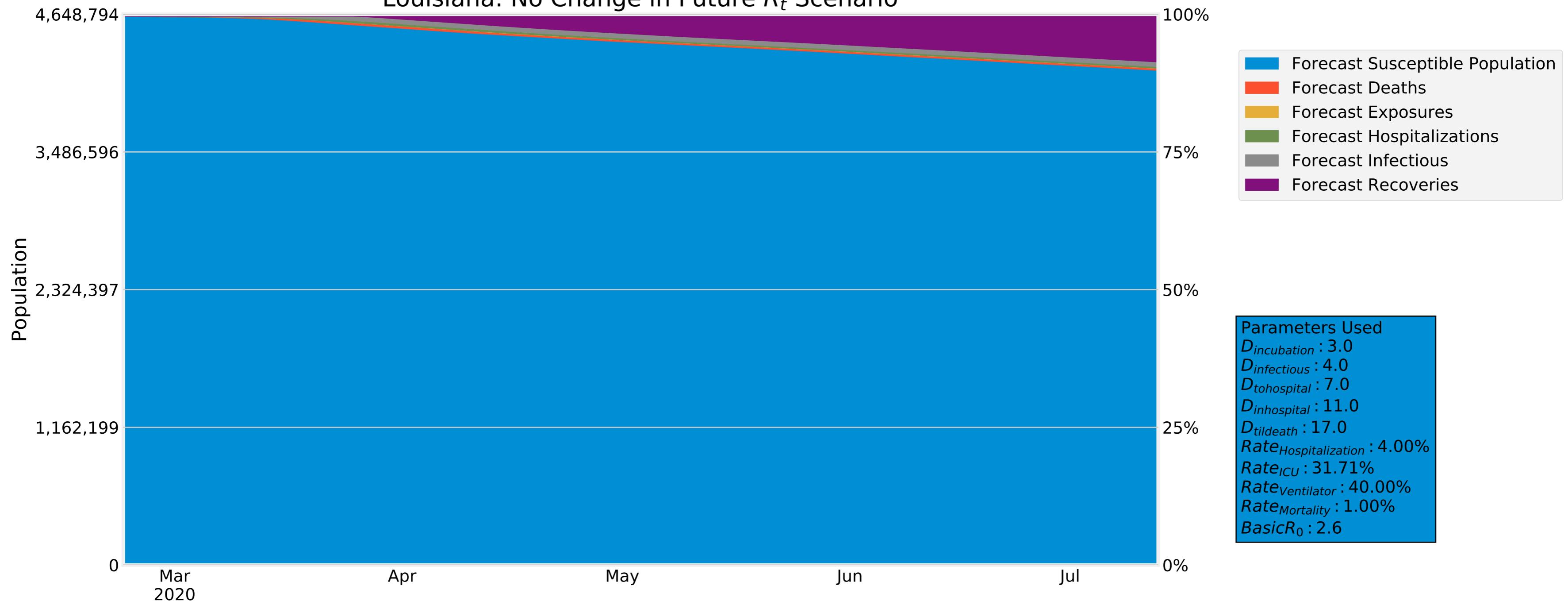
Hospitalization and Deaths Forecast Louisiana: No Change in Future R_t Scenario



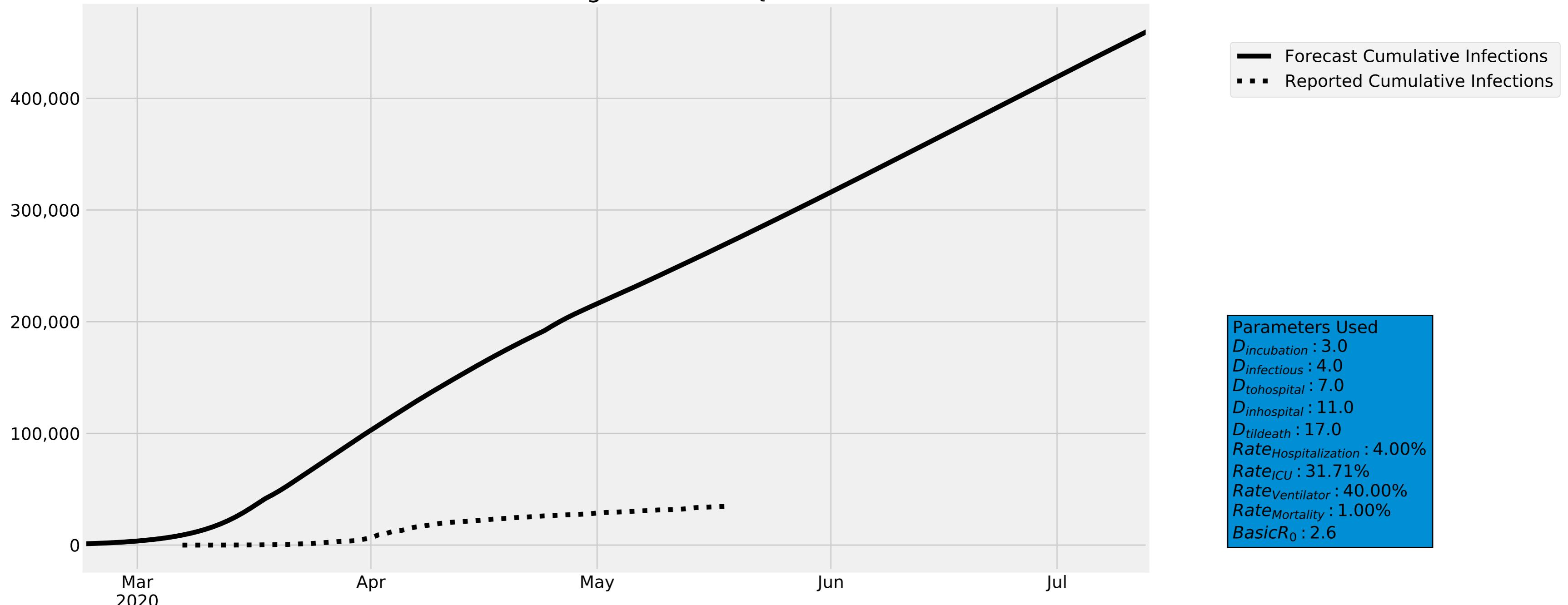
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

Louisiana: No Change in Future R_t Scenario



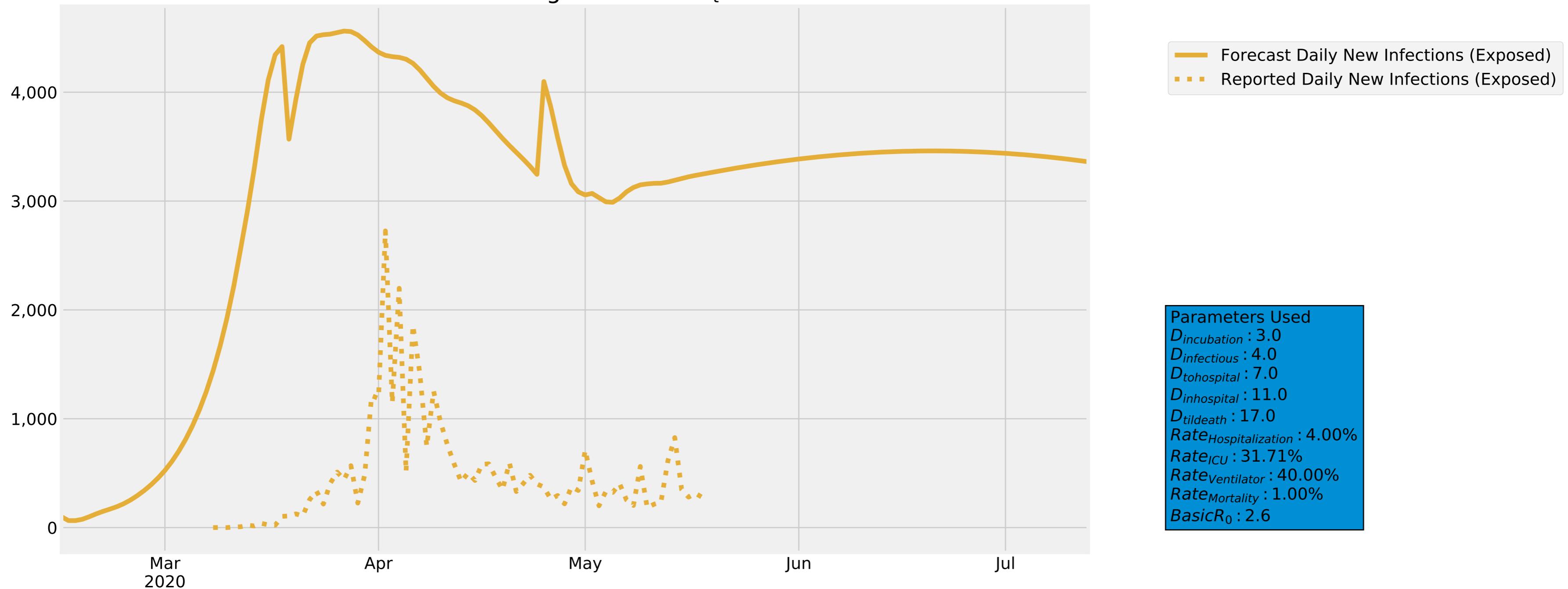
Cumulative Infections Forecast Louisiana: No Change in Future R_t Scenario



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

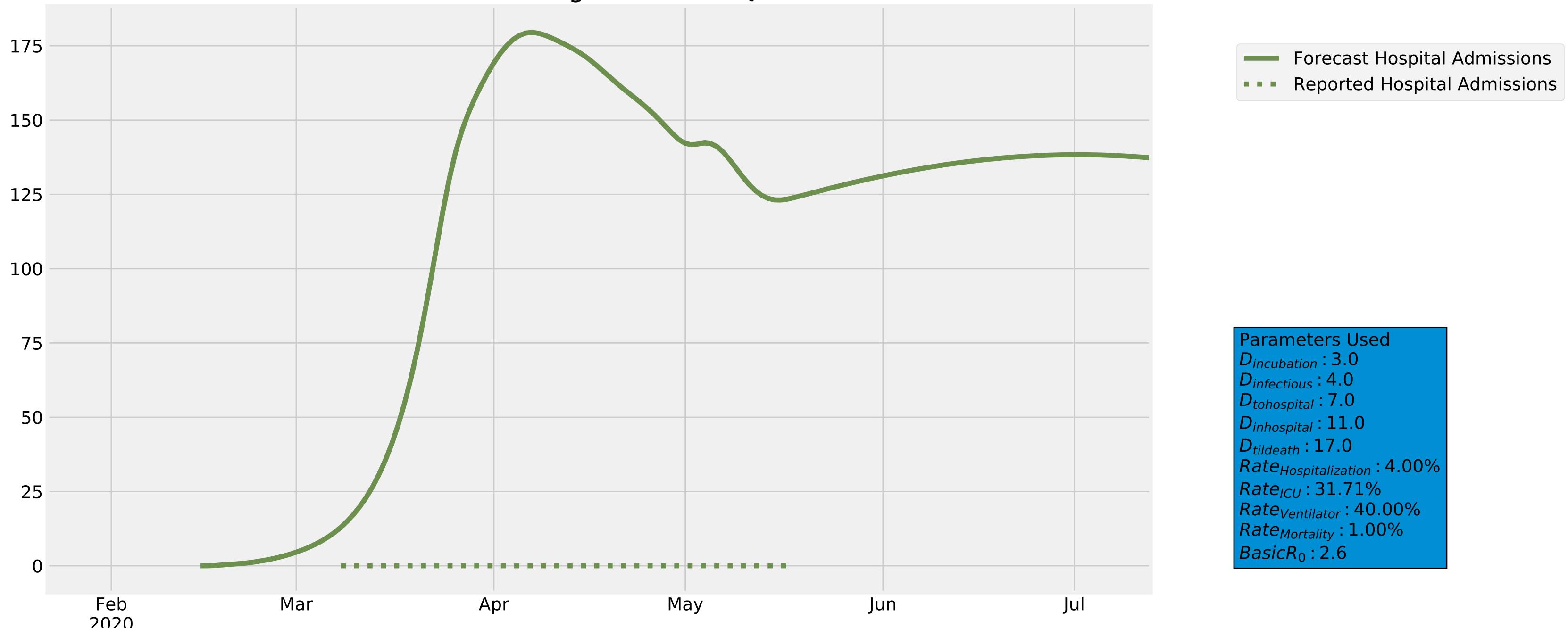
Daily Exposures Forecast Louisiana: No Change in Future R_t Scenario



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

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

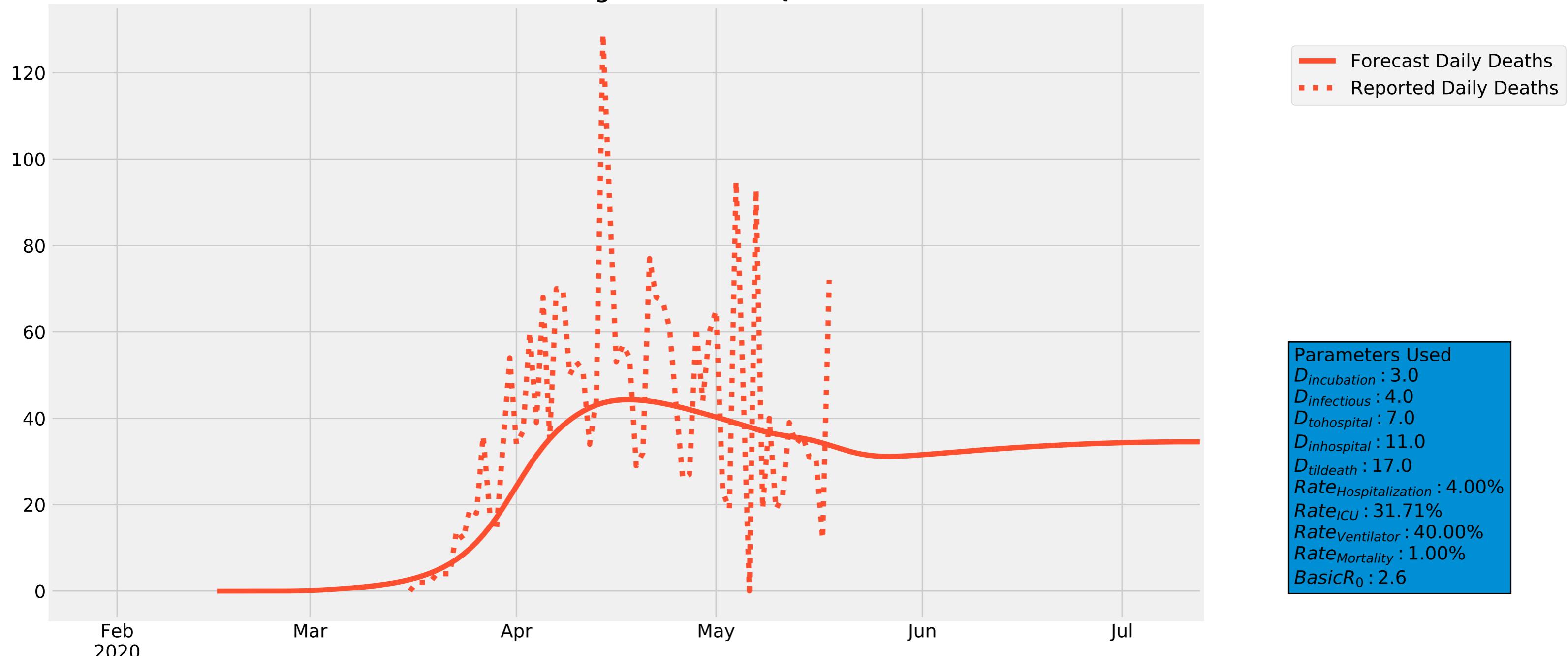


Parameters Used

$D_{incubation}$: 3.0
$D_{infectious}$: 4.0
$D_{tohospital}$: 7.0
$D_{inhospital}$: 11.0
$D_{tildeath}$: 17.0
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$Rate_{ICU}$: 31.71%
$Rate_{Ventilator}$: 40.00%
$Rate_{Mortality}$: 1.00%
$BasicR_0$: 2.6

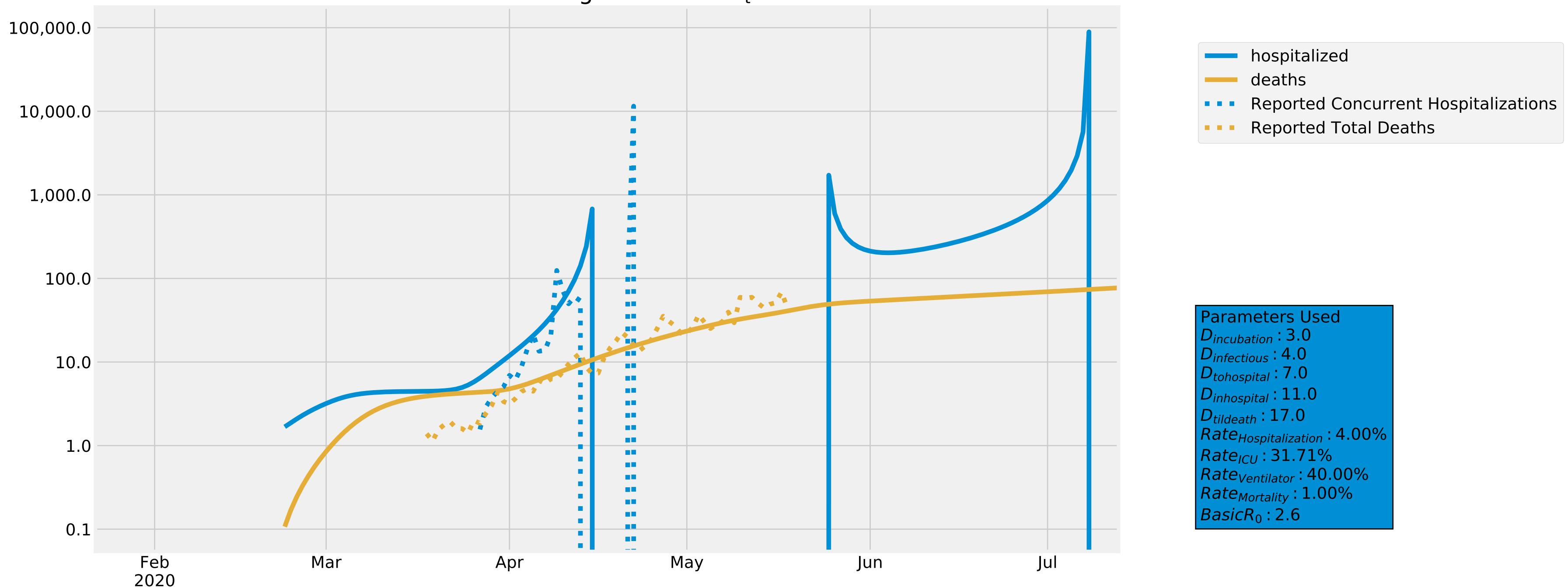
Daily Deaths Forecast

Louisiana: No Change in Future R_t Scenario



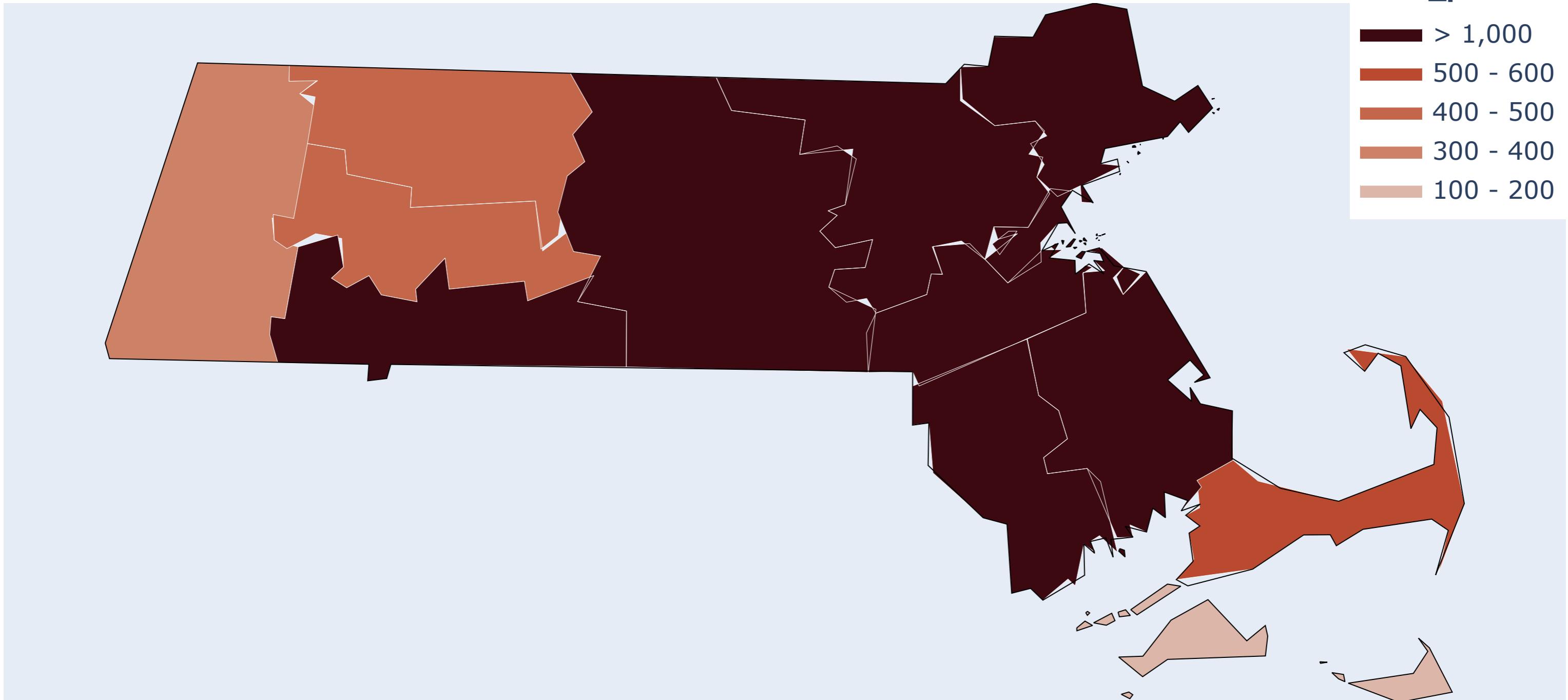
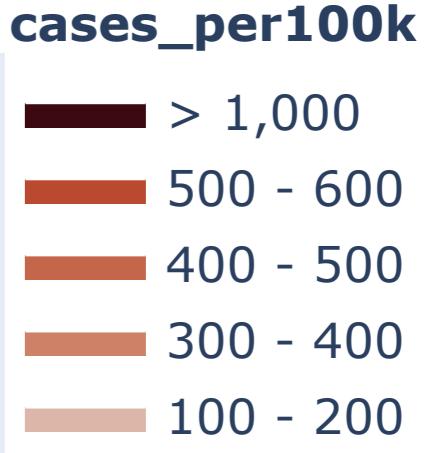
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Louisiana: No Change in Future R_t Scenario

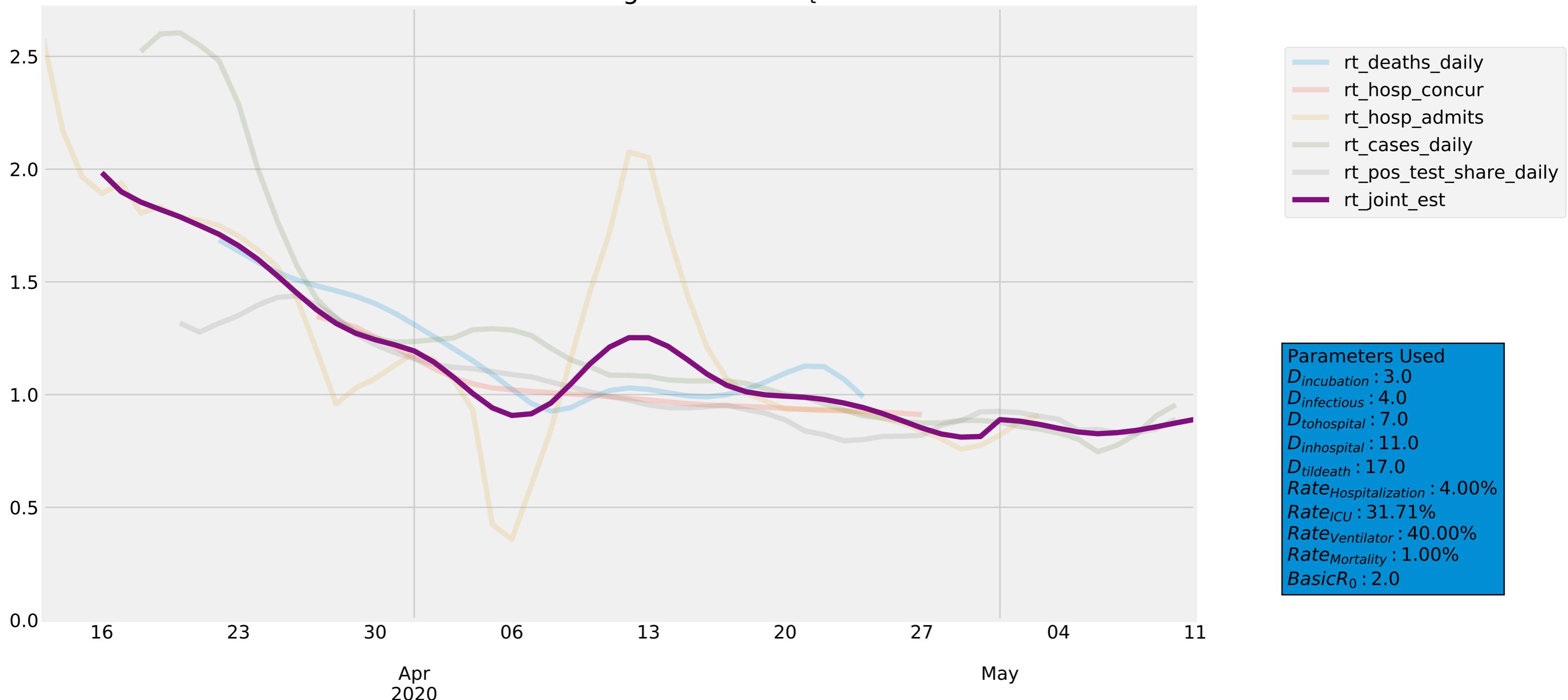


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Massachusetts: COVID-19 Cases Per 100k Residents



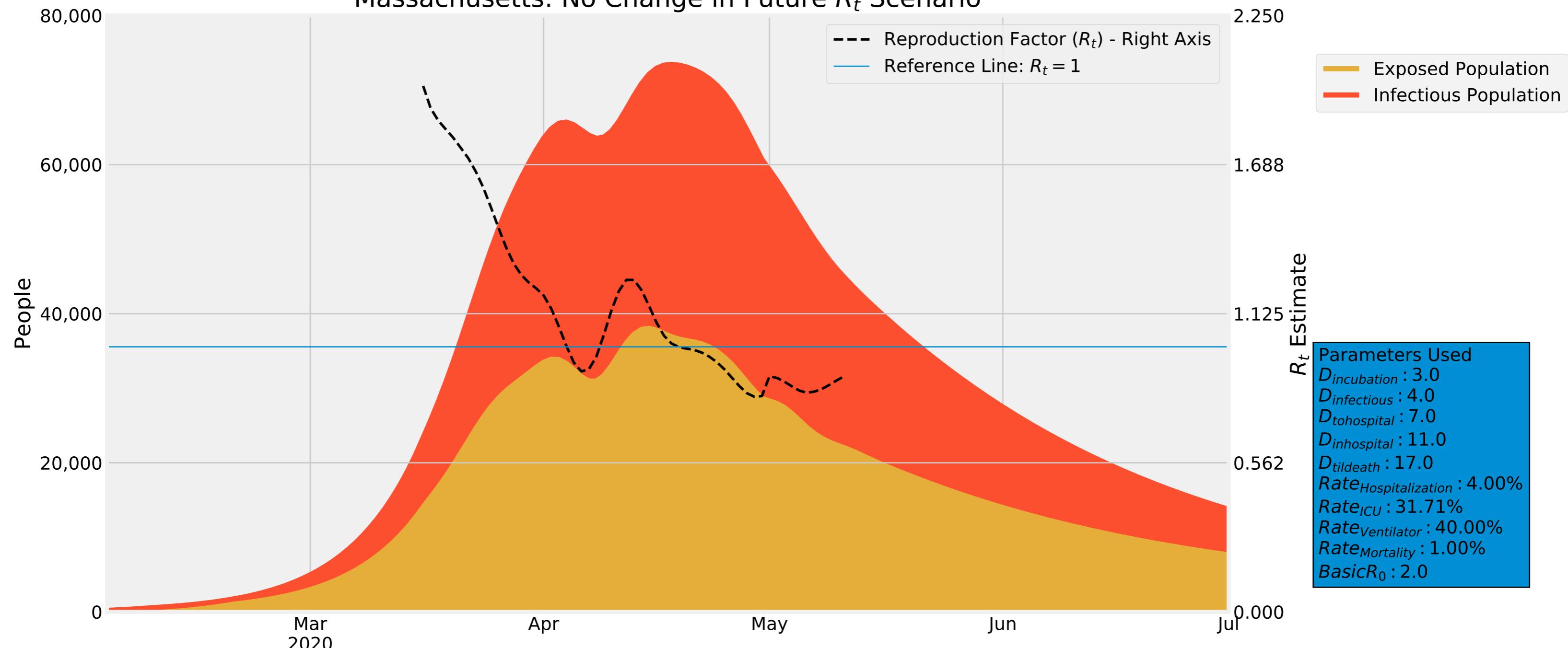
Reproduction Rate (R_t) Estimates Massachusetts: No Change in Future R_t Scenario



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

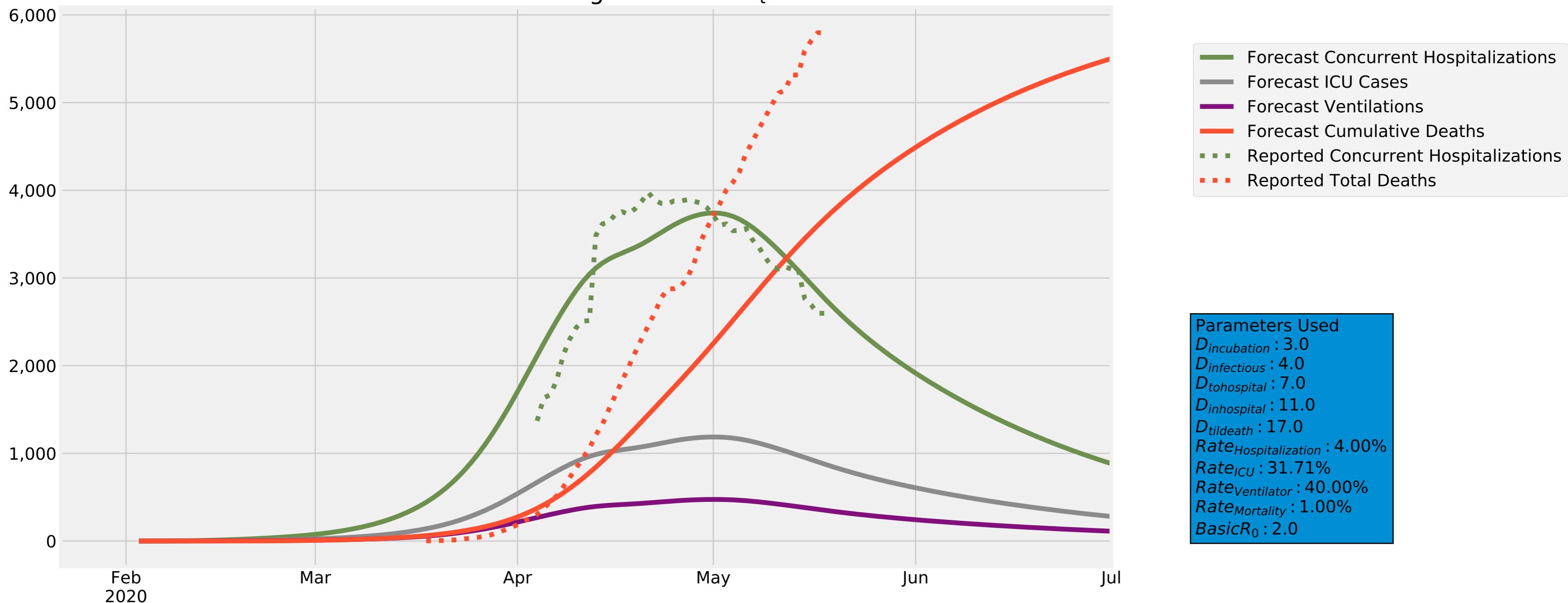
Simultaneous Infections Forecast

Massachusetts: No Change in Future R_t Scenario



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

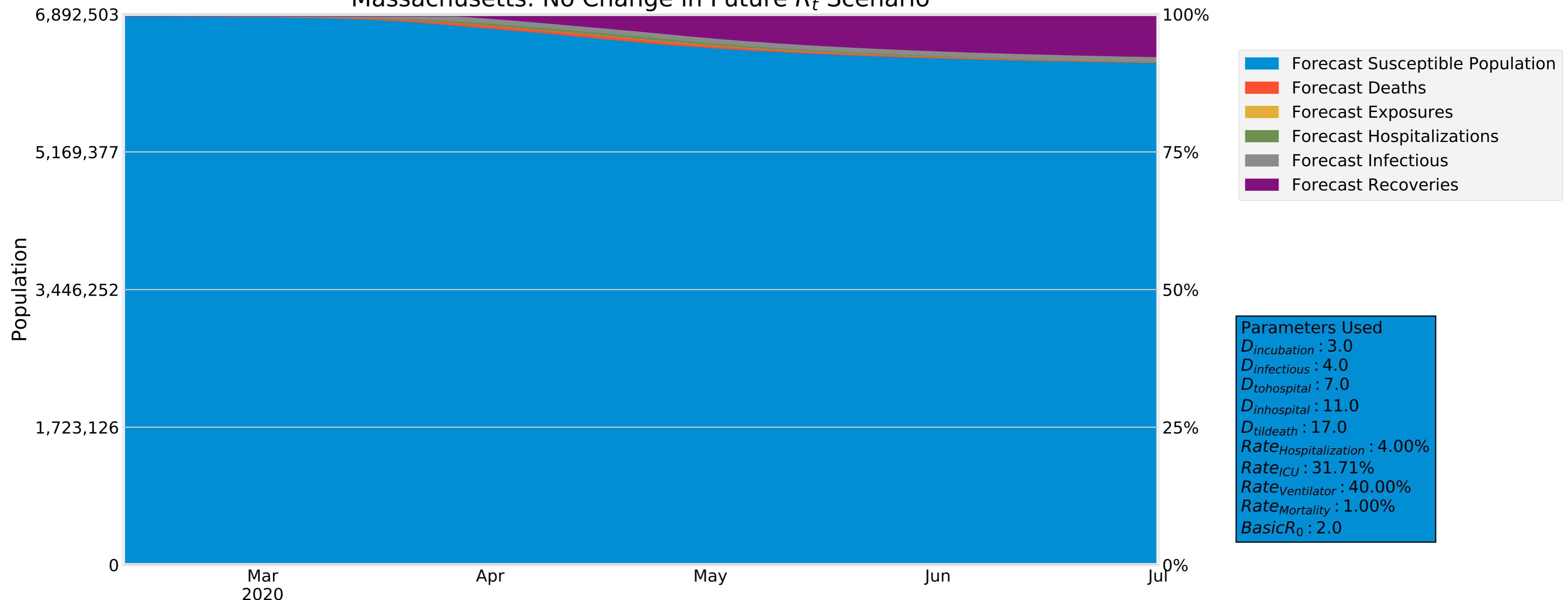
Hospitalization and Deaths Forecast Massachusetts: No Change in Future R_t Scenario



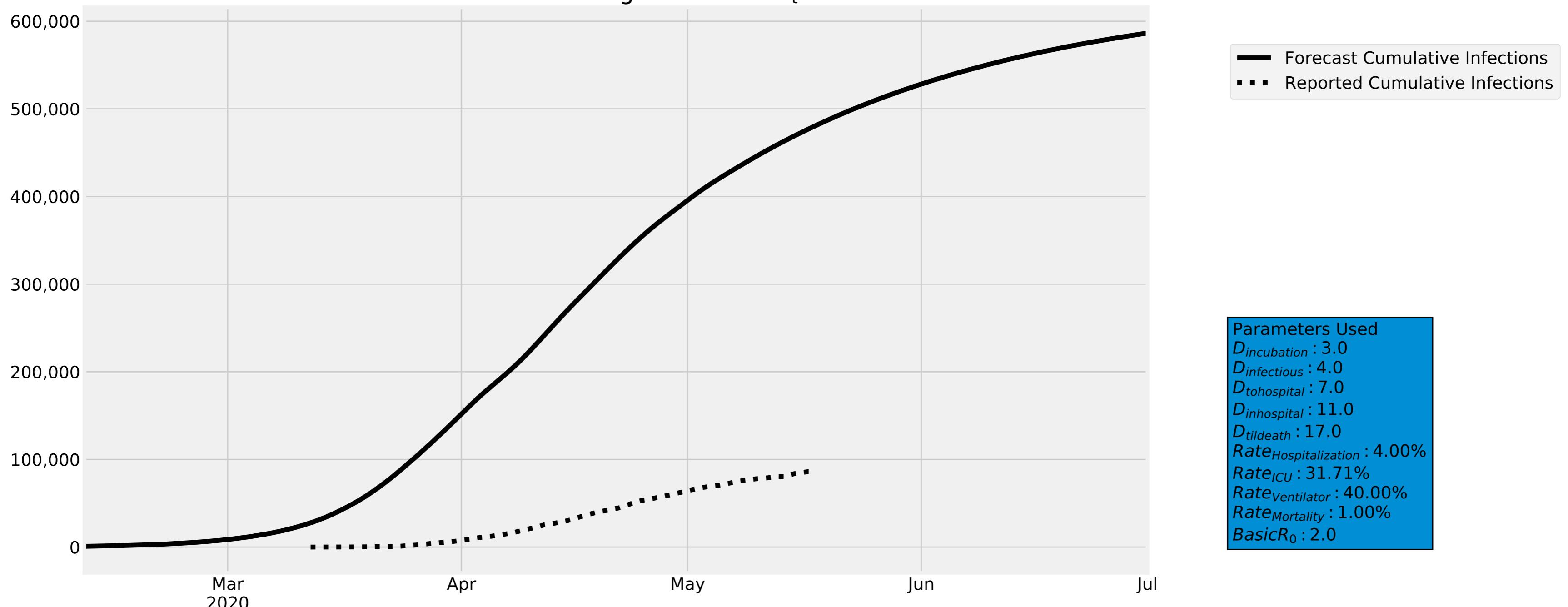
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

Massachusetts: No Change in Future R_t Scenario



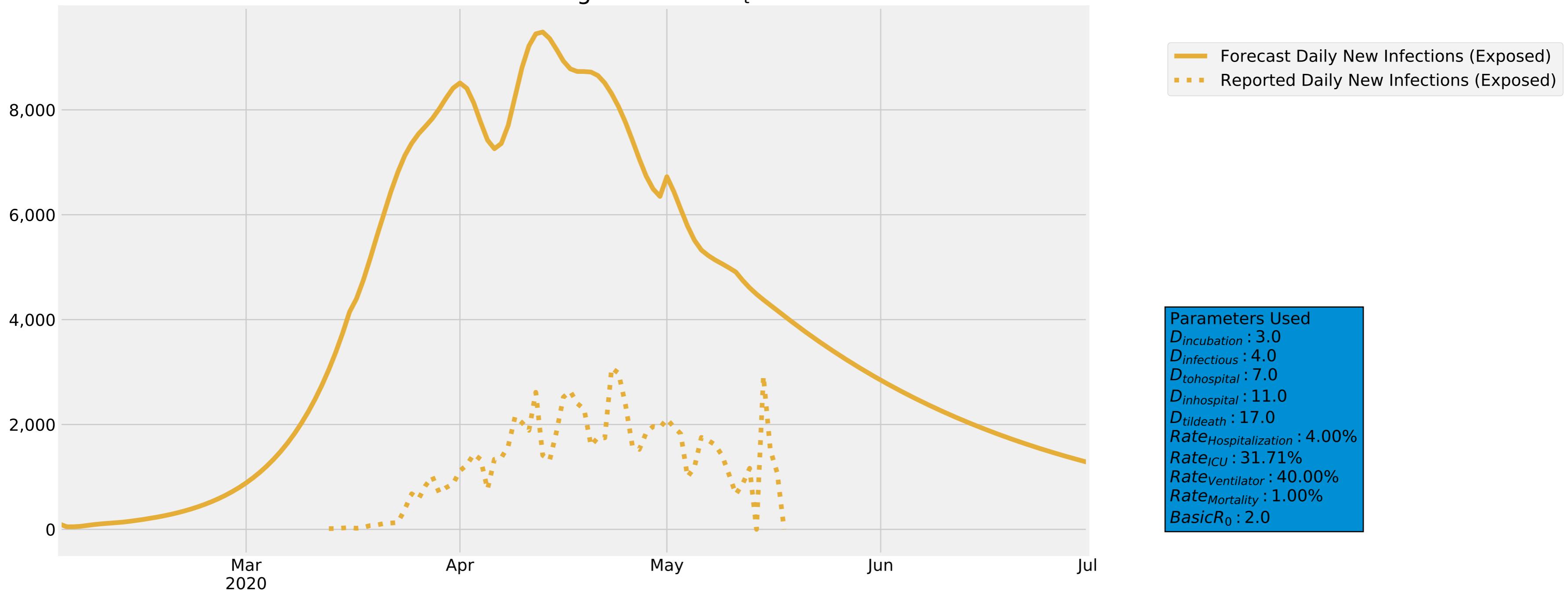
Cumulative Infections Forecast Massachusetts: No Change in Future R_t Scenario



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

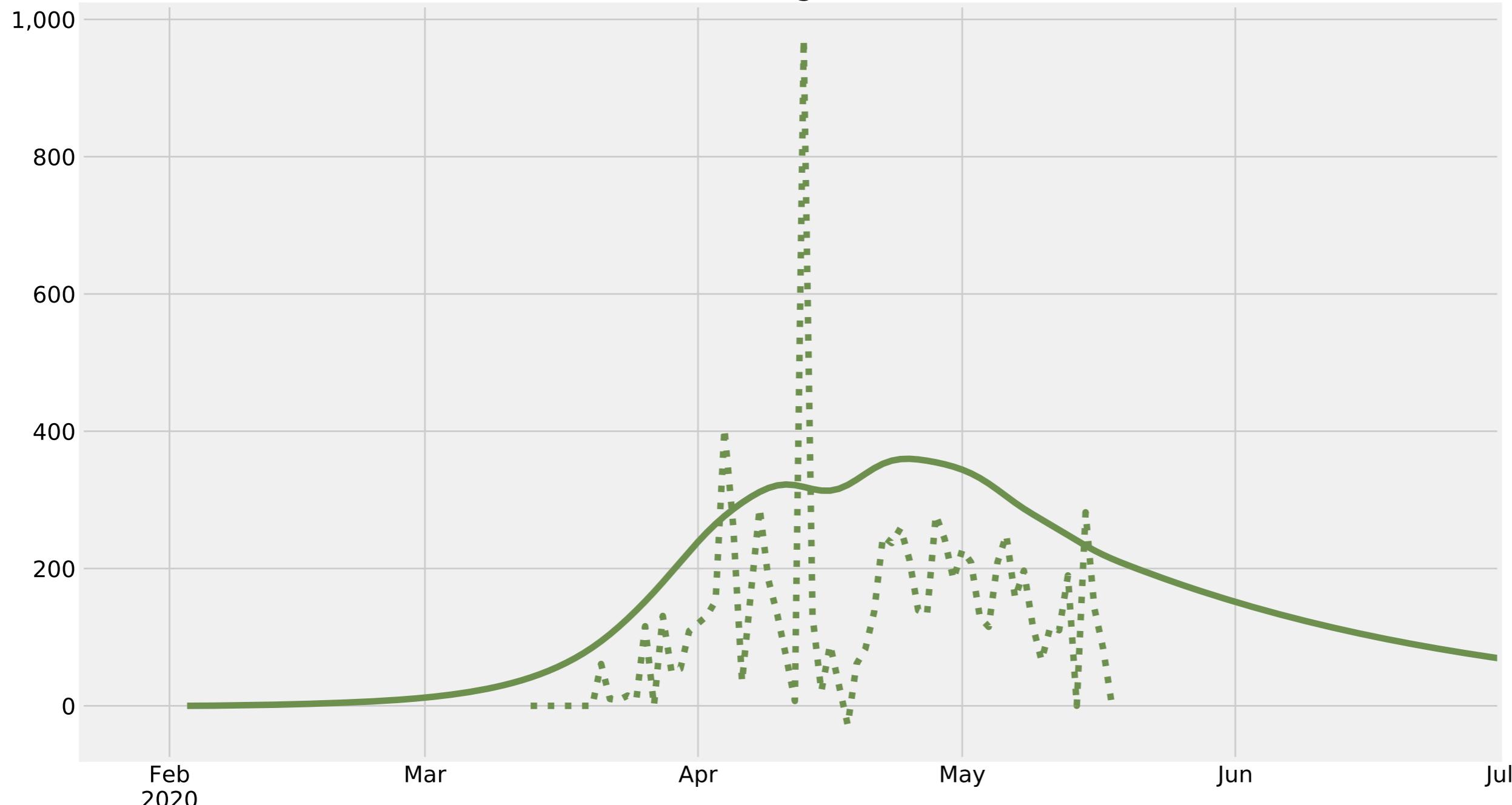
Daily Exposures Forecast Massachusetts: No Change in Future R_t Scenario



Parameters Used

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 $D_{infectious}$: 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

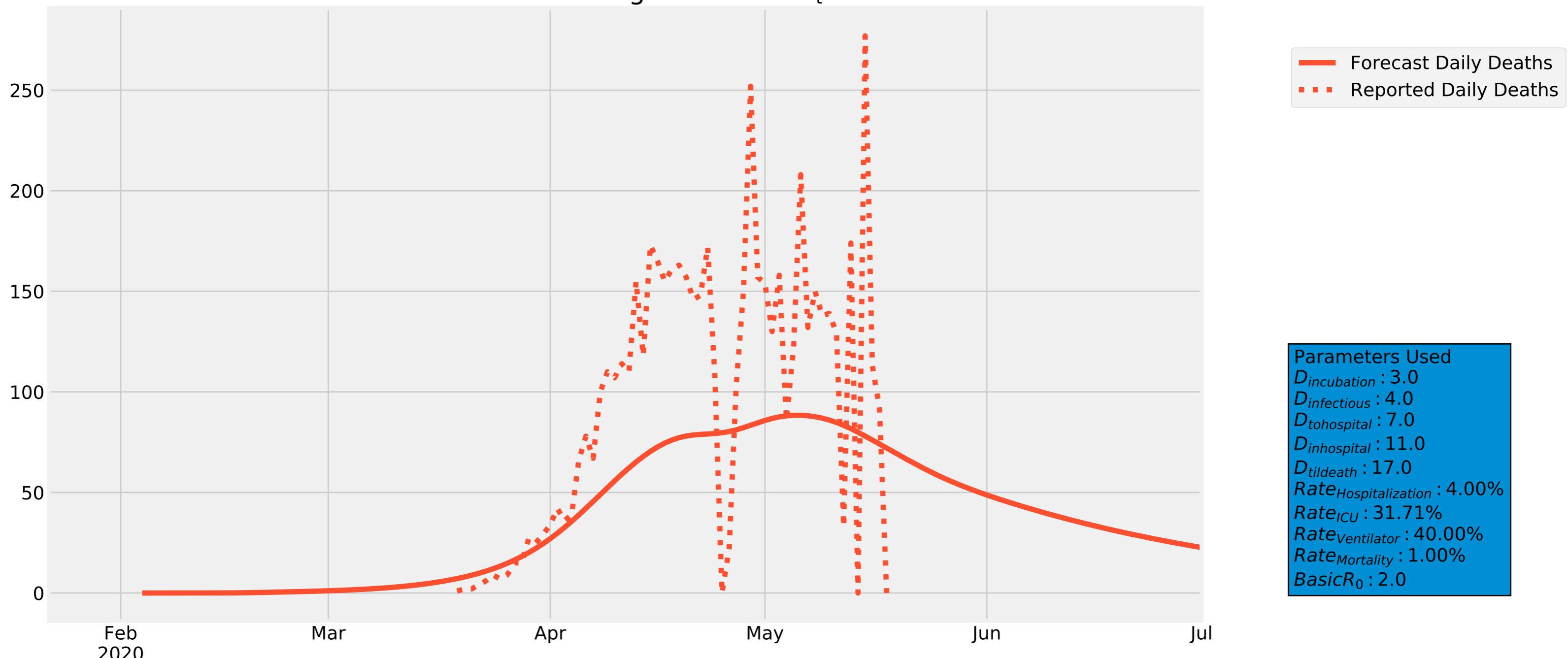
Daily Hospital Admissions Forecast Massachusetts: No Change in Future R_t Scenario



Parameters Used

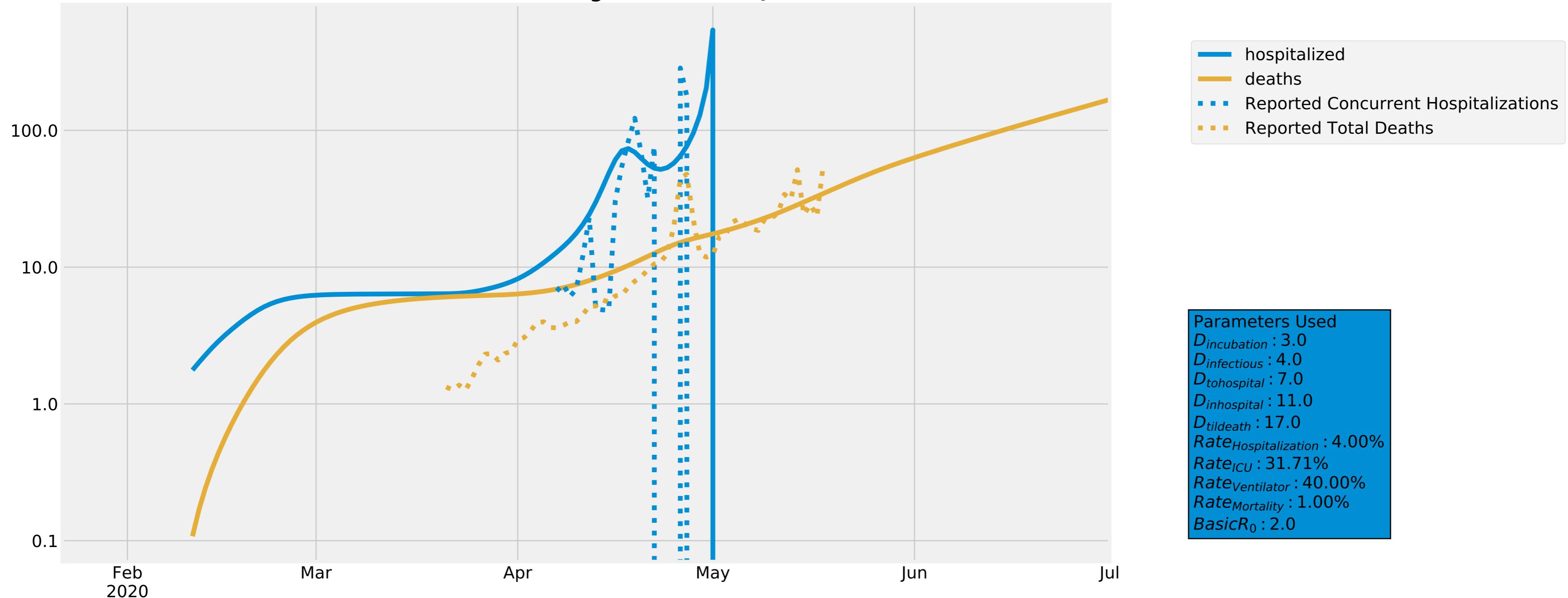
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$D_{infectious}$:	4.0
$D_{tohospital}$:	7.0
$D_{inhospital}$:	11.0
$D_{tildeath}$:	17.0
Rate _{Hospitalization} :	4.00%
Rate _{ICU} :	31.71%
Rate _{Ventilator} :	40.00%
Rate _{Mortality} :	1.00%
BasicR ₀ :	2.0

Daily Deaths Forecast Massachusetts: No Change in Future R_t Scenario



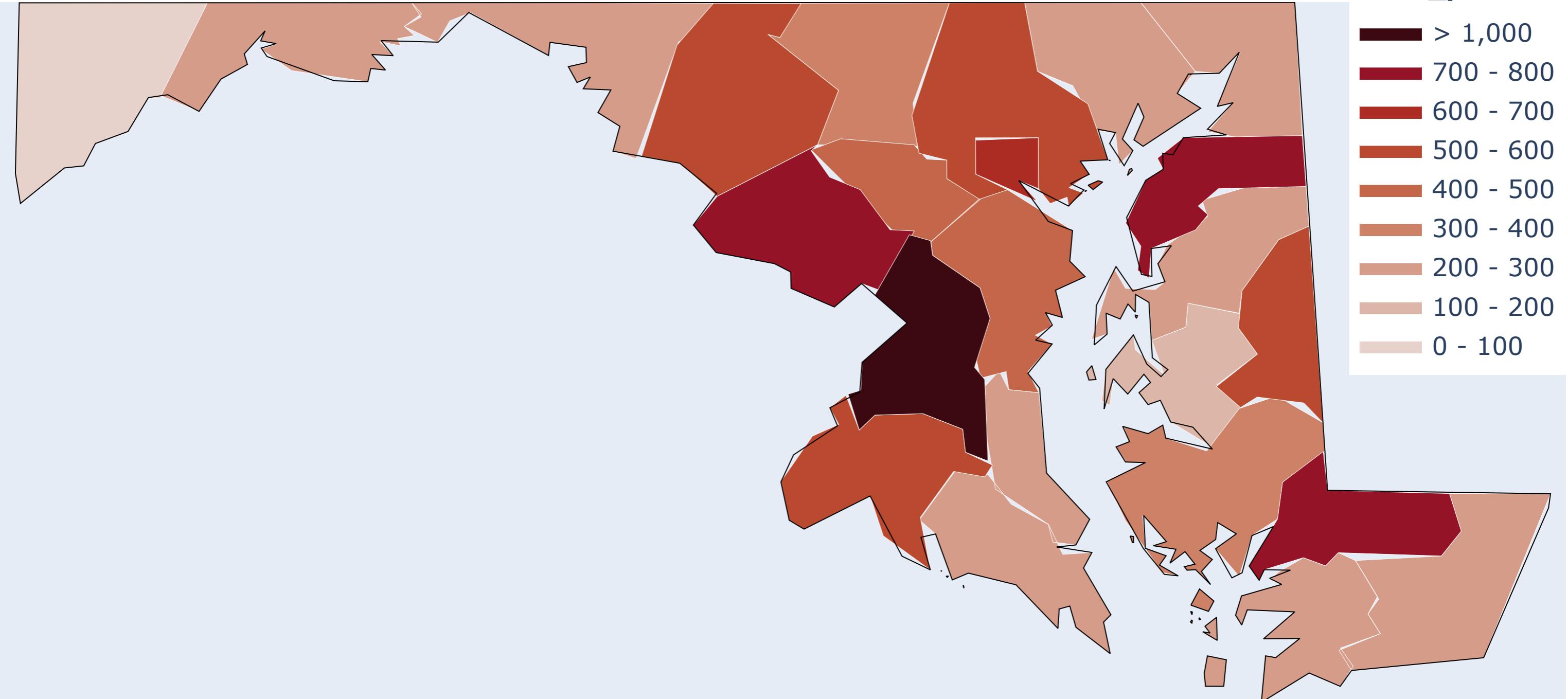
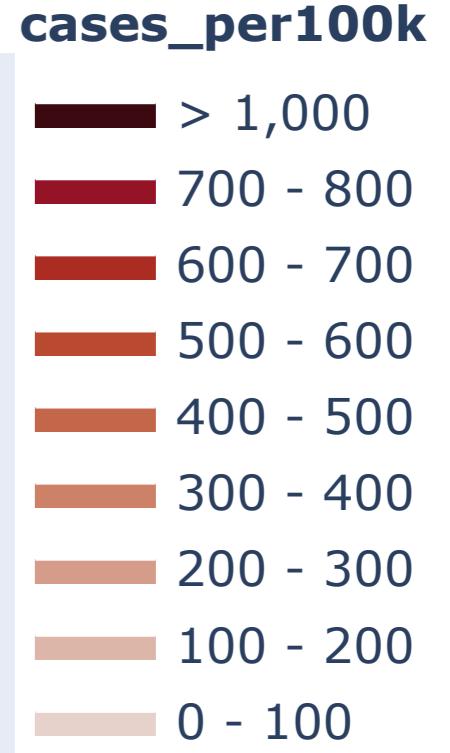
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Massachusetts: No Change in Future R_t Scenario

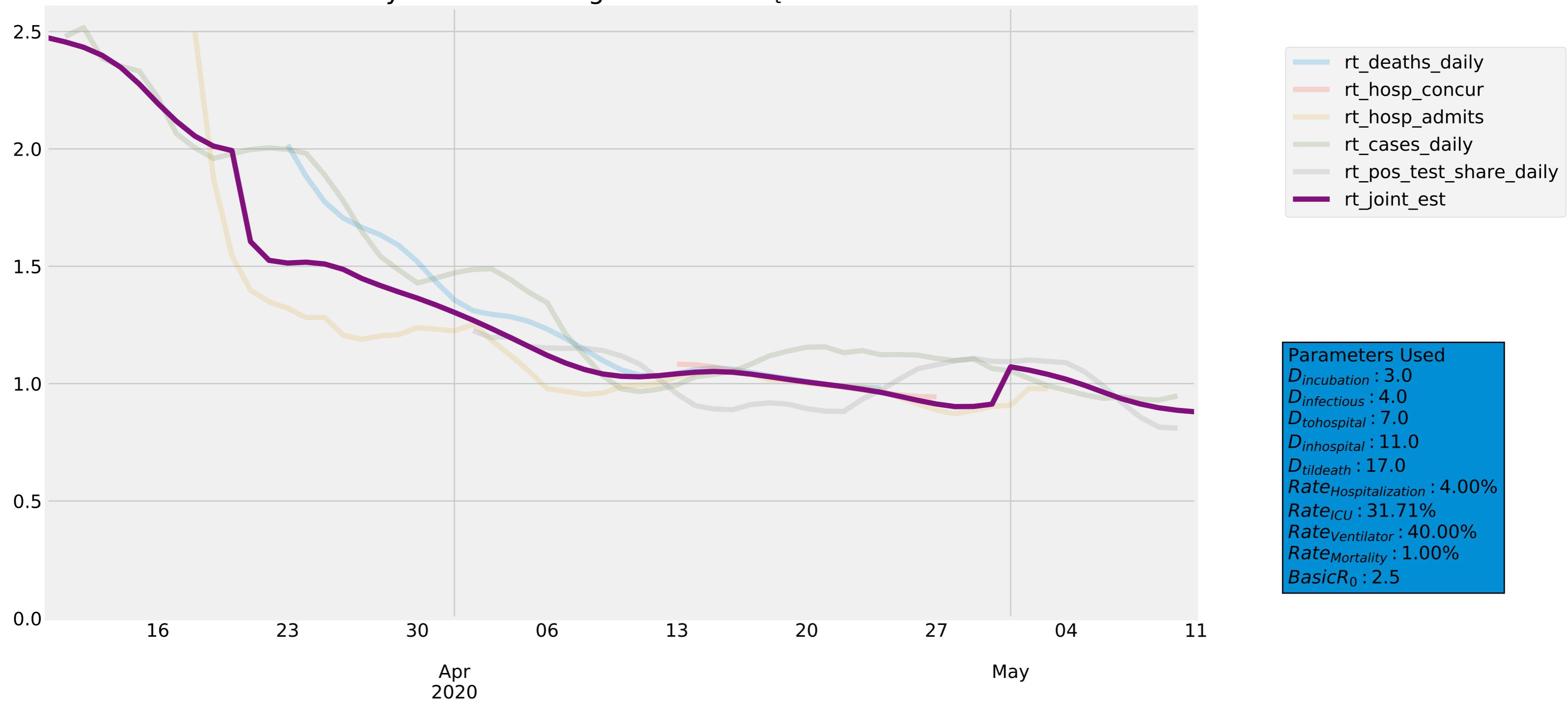


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Maryland: COVID-19 Cases Per 100k Residents



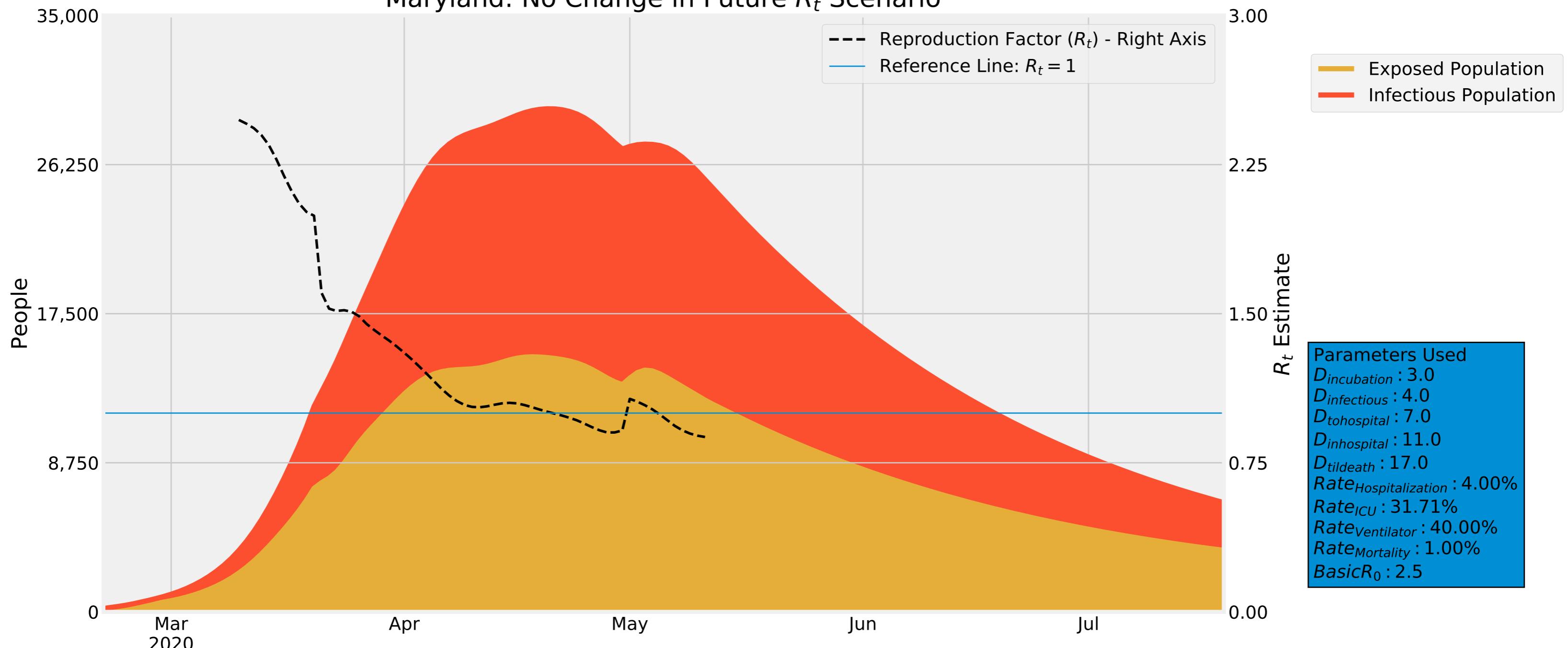
Reproduction Rate (R_t) Estimates Maryland: No Change in Future R_t Scenario



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

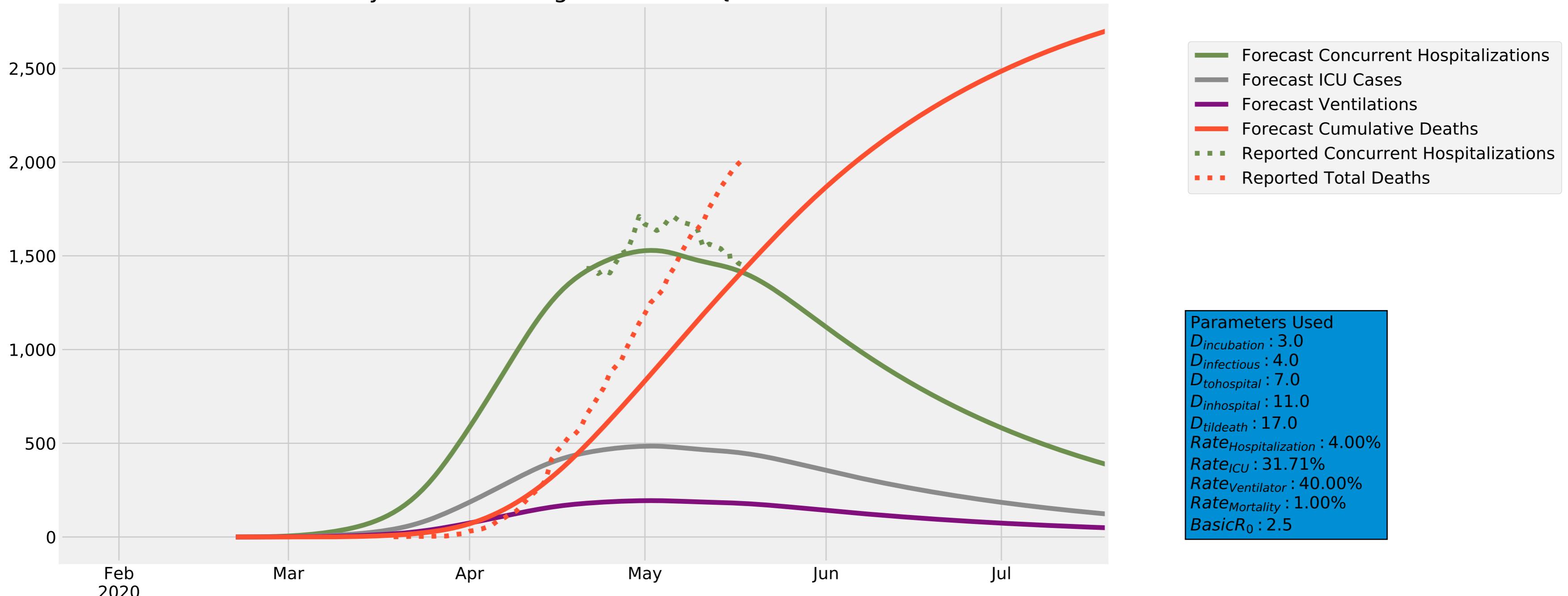
Simultaneous Infections Forecast

Maryland: No Change in Future R_t Scenario



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

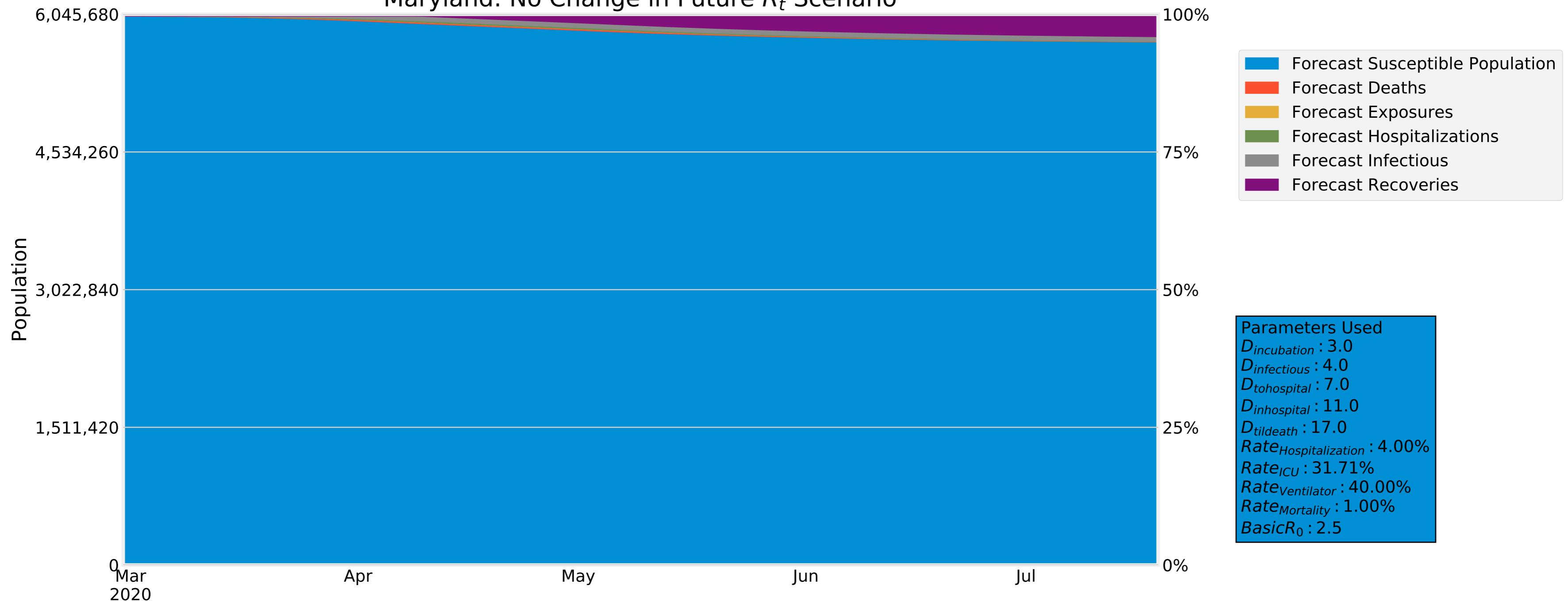
Hospitalization and Deaths Forecast Maryland: No Change in Future R_t Scenario



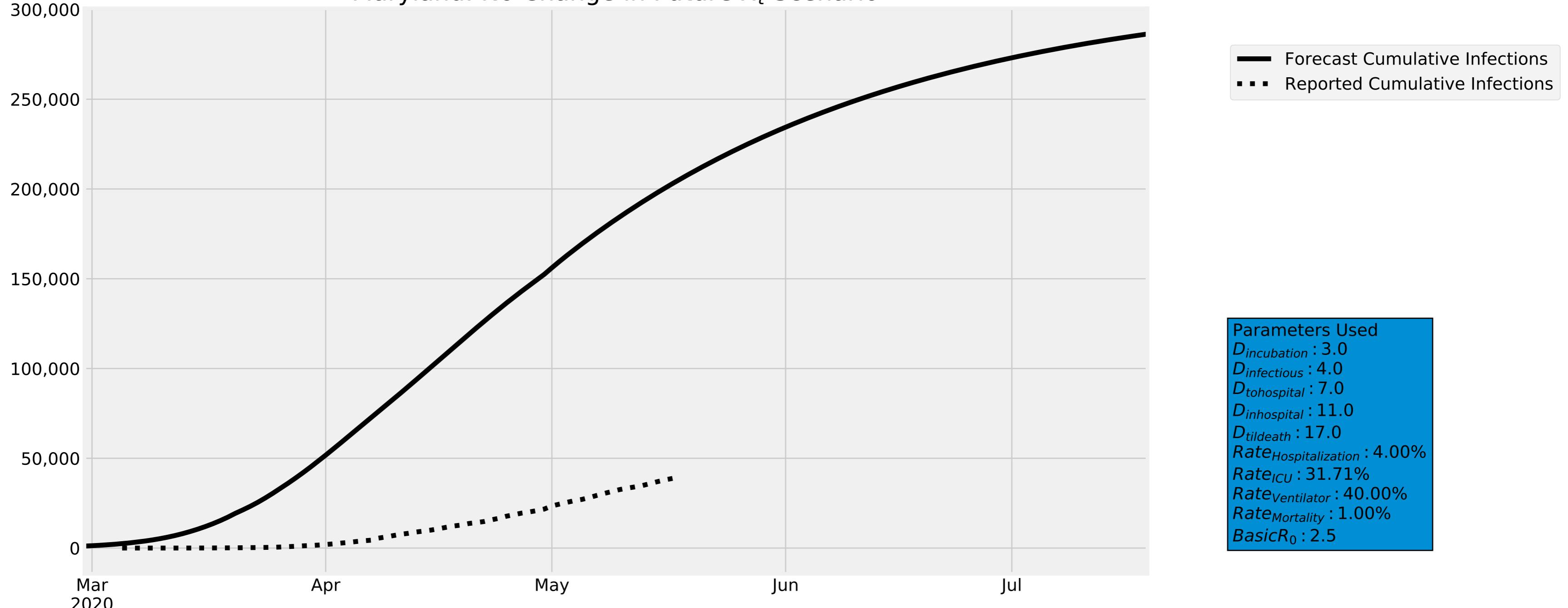
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

Maryland: No Change in Future R_t Scenario



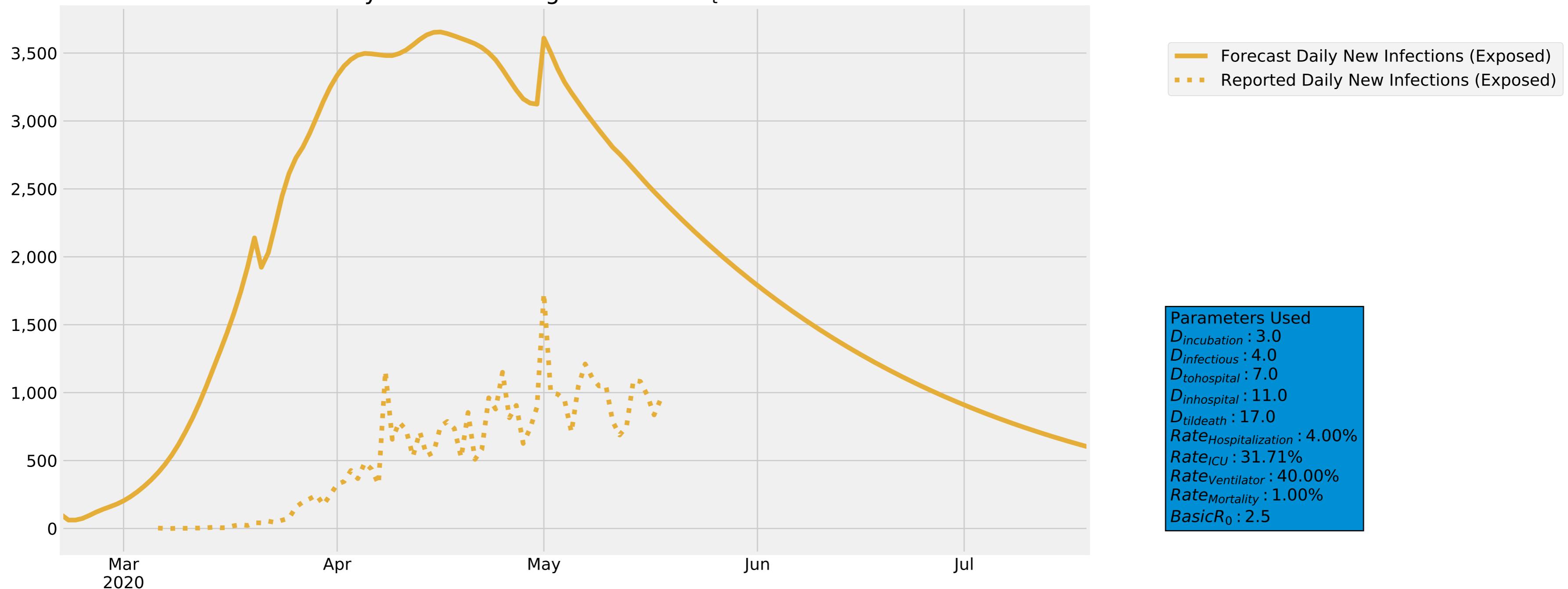
Cumulative Infections Forecast Maryland: No Change in Future R_t Scenario



Parameters Used

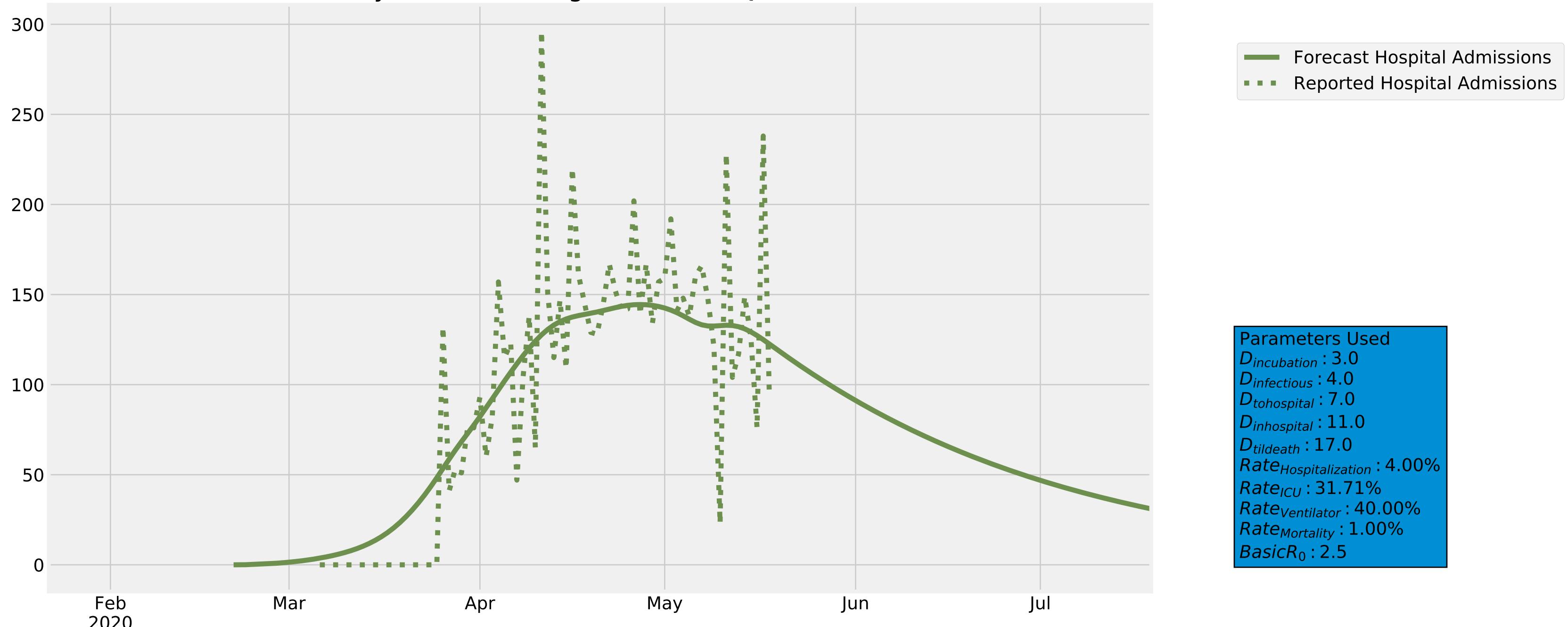
- $D_{incubation}$: 3.0
- $D_{infectious}$: 4.0
- $D_{tohospital}$: 7.0
- $D_{inhospital}$: 11.0
- $D_{tildeath}$: 17.0
- $Rate_{Hospitalization}$: 4.00%
- $Rate_{ICU}$: 31.71%
- $Rate_{Ventilator}$: 40.00%
- $Rate_{Mortality}$: 1.00%
- $BasicR_0$: 2.5

Daily Exposures Forecast Maryland: No Change in Future R_t Scenario



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

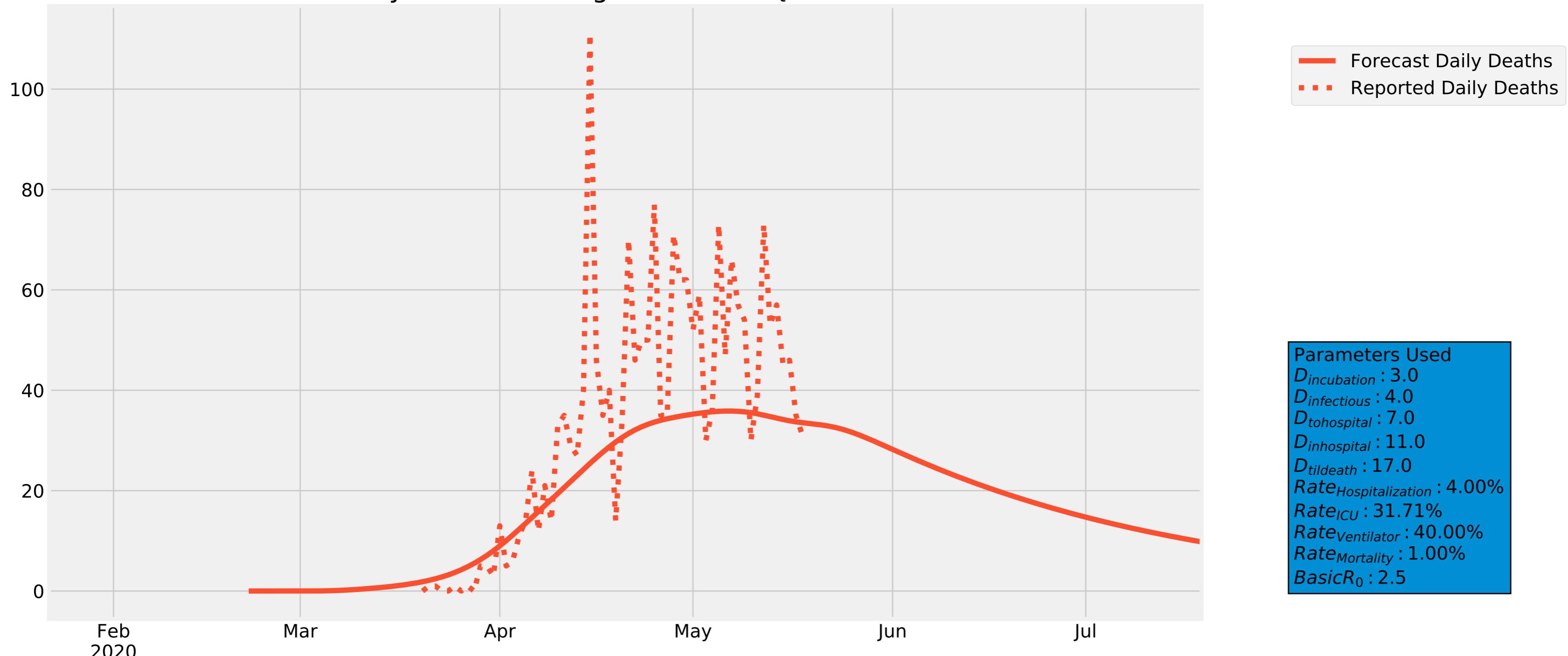
Daily Hospital Admissions Forecast Maryland: No Change in Future R_t Scenario



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

Daily Deaths Forecast

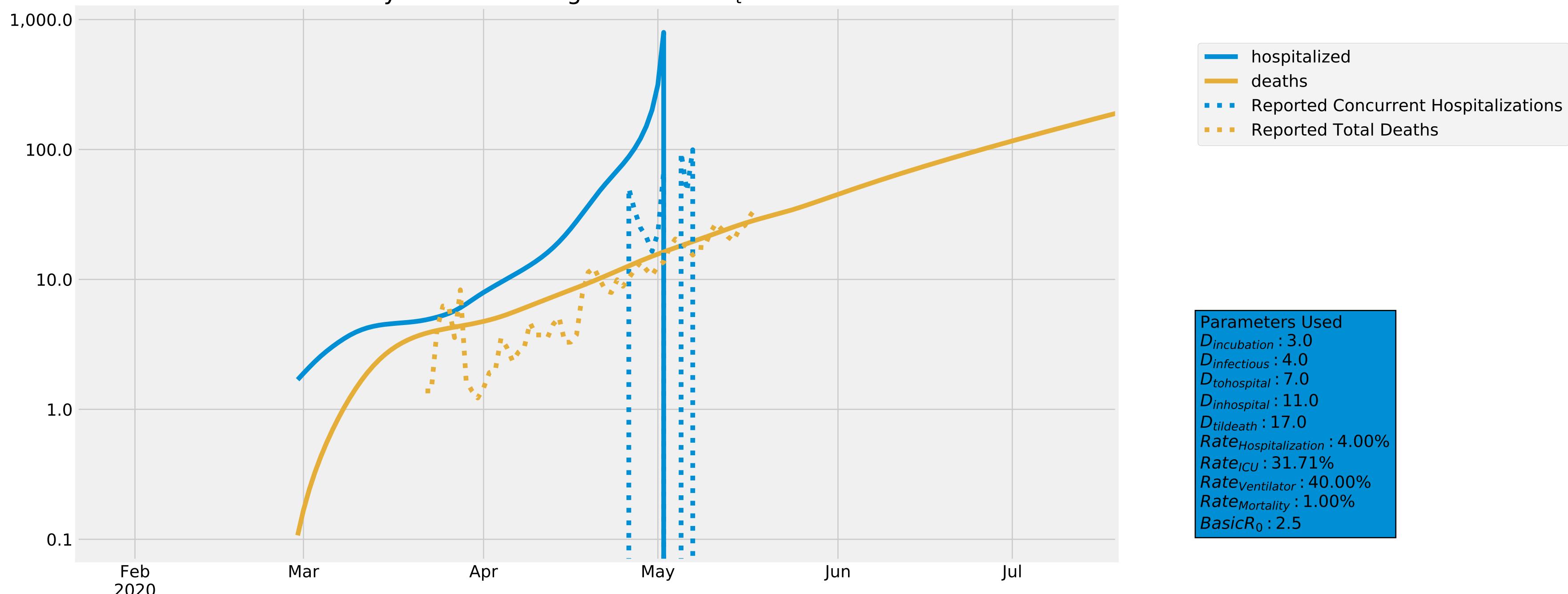
Maryland: No Change in Future R_t Scenario



Parameters Used

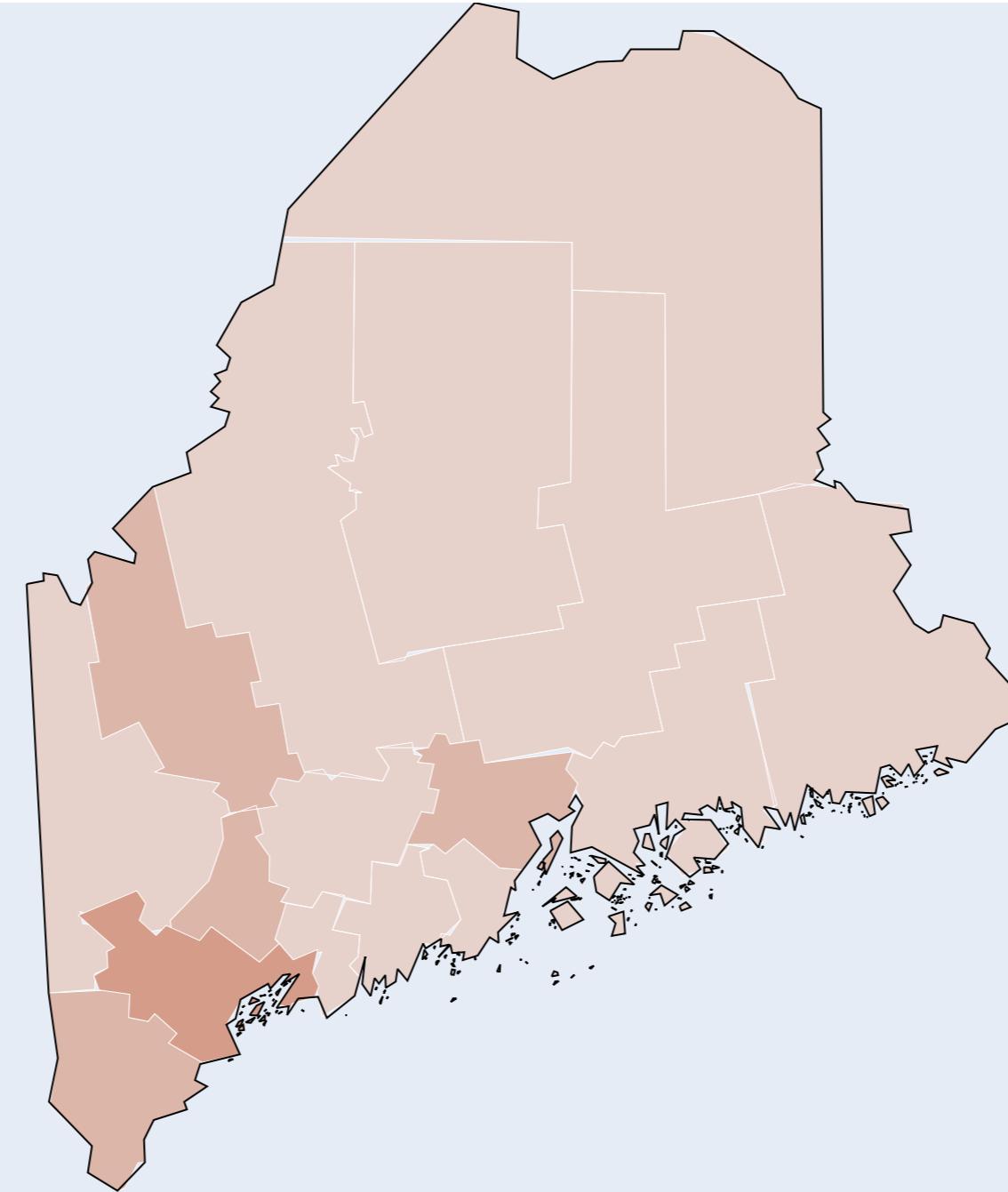
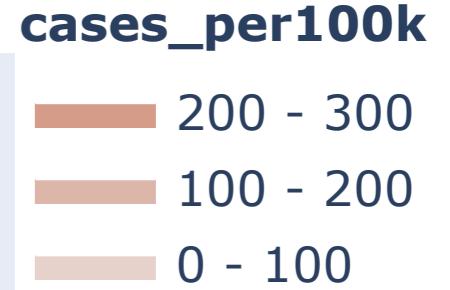
$D_{incubation}$: 3.0
 $D_{infectious}$: 4.0
 $D_{tohospital}$: 7.0
 $D_{inhospital}$: 11.0
 $D_{tildeath}$: 17.0
 $Rate_{Hospitalization}$: 4.00%
 $Rate_{ICU}$: 31.71%
 $Rate_{Ventilator}$: 40.00%
 $Rate_{Mortality}$: 1.00%
 $BasicR_0$: 2.5

Doubling Rate Forecast Maryland: No Change in Future R_t Scenario

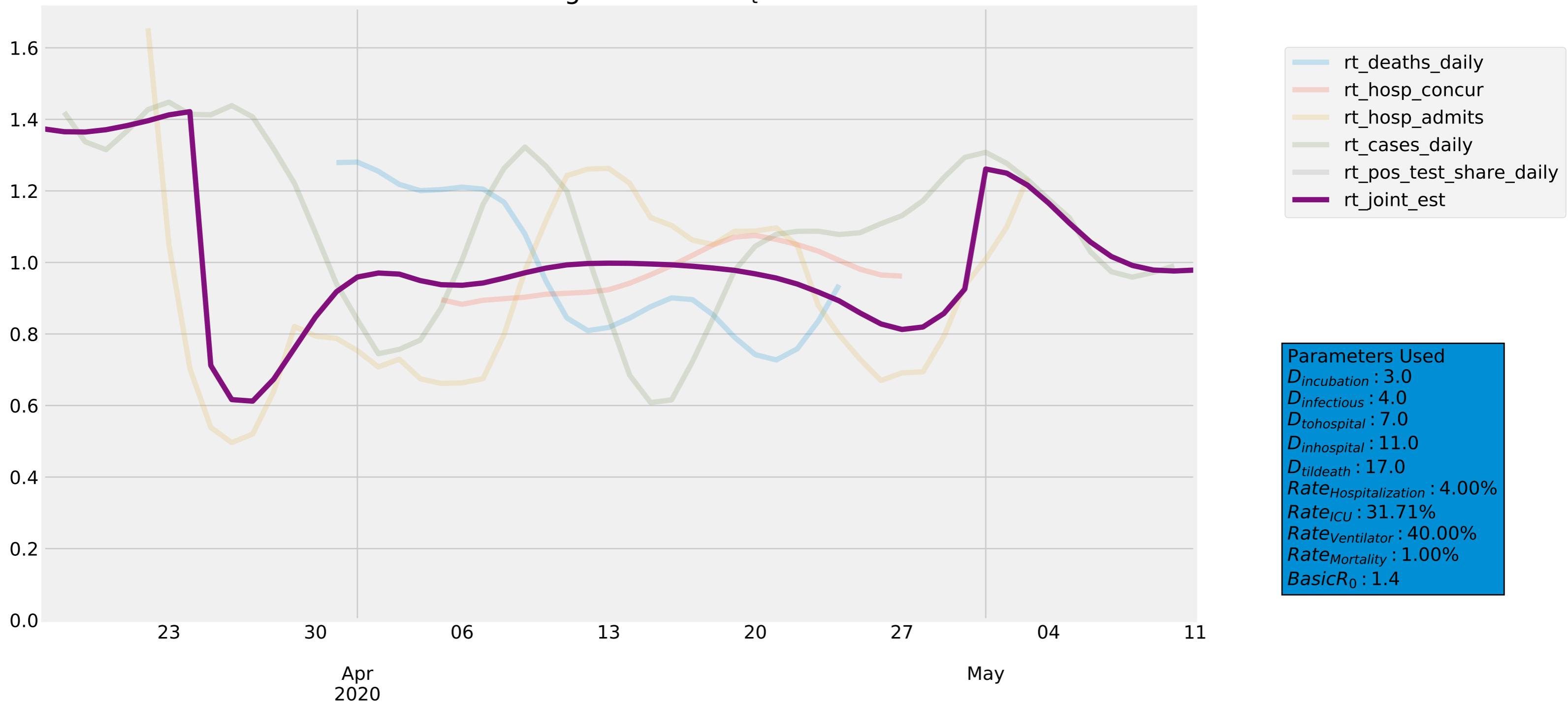


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Maine: COVID-19 Cases Per 100k Residents



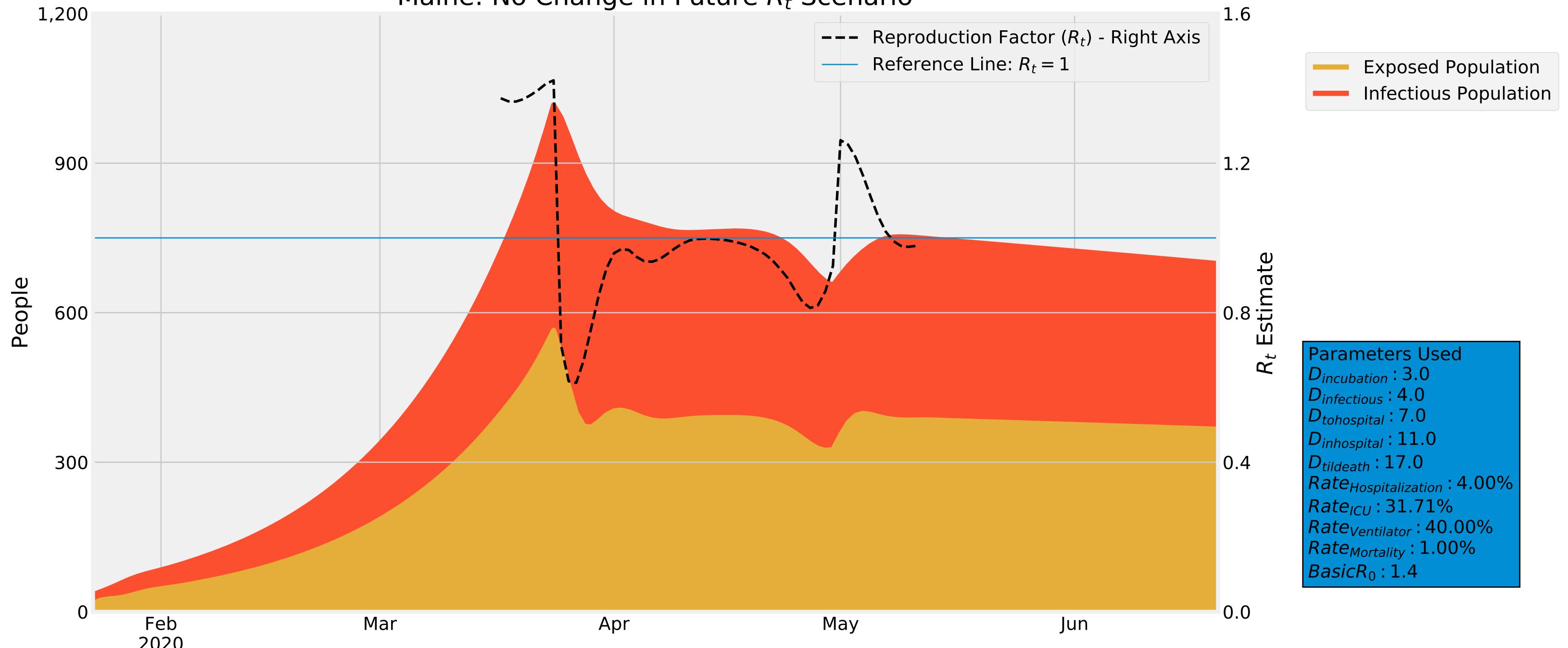
Reproduction Rate (R_t) Estimates Maine: No Change in Future R_t Scenario



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

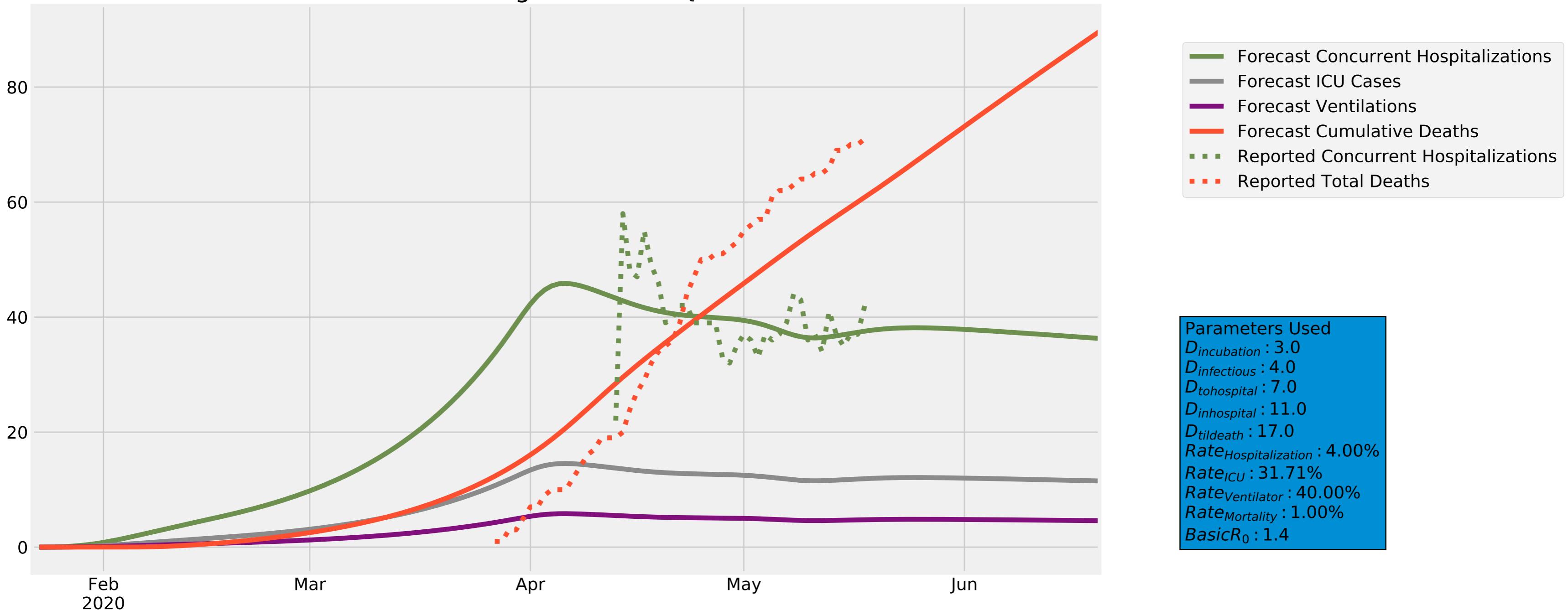
Simultaneous Infections Forecast

Maine: No Change in Future R_t Scenario



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

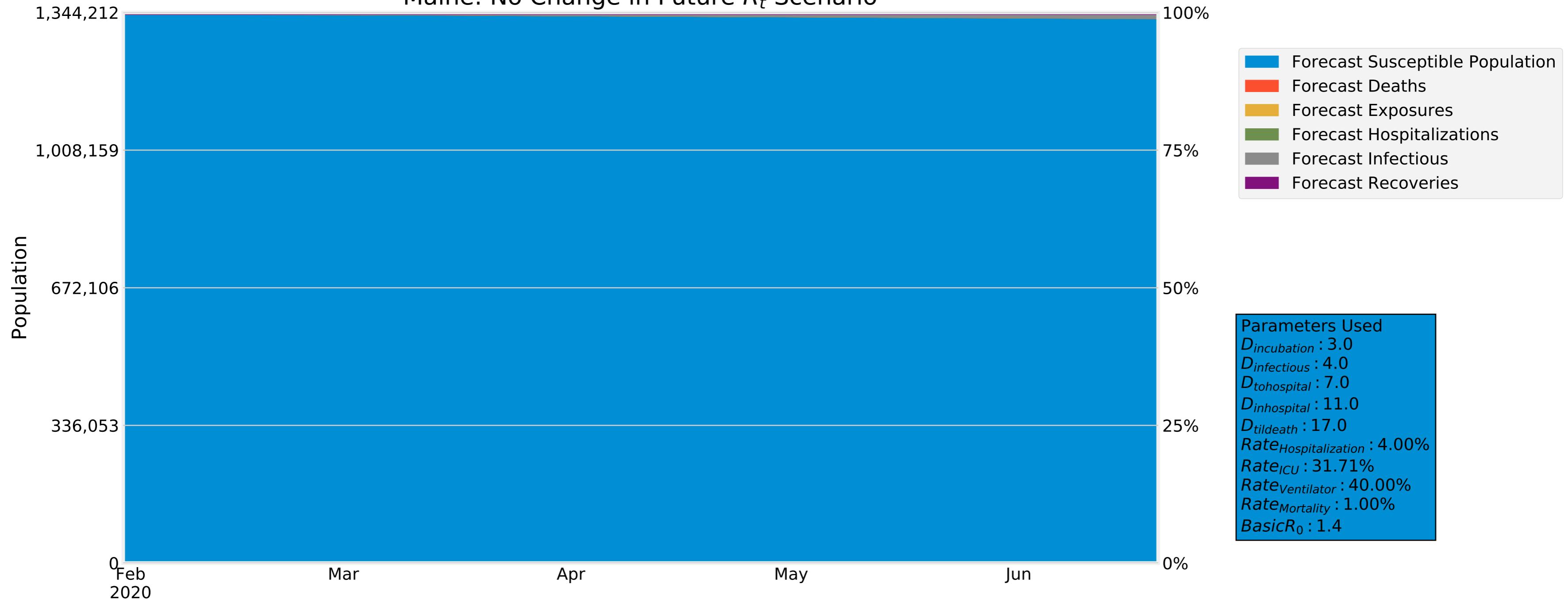
Hospitalization and Deaths Forecast Maine: No Change in Future R_t Scenario



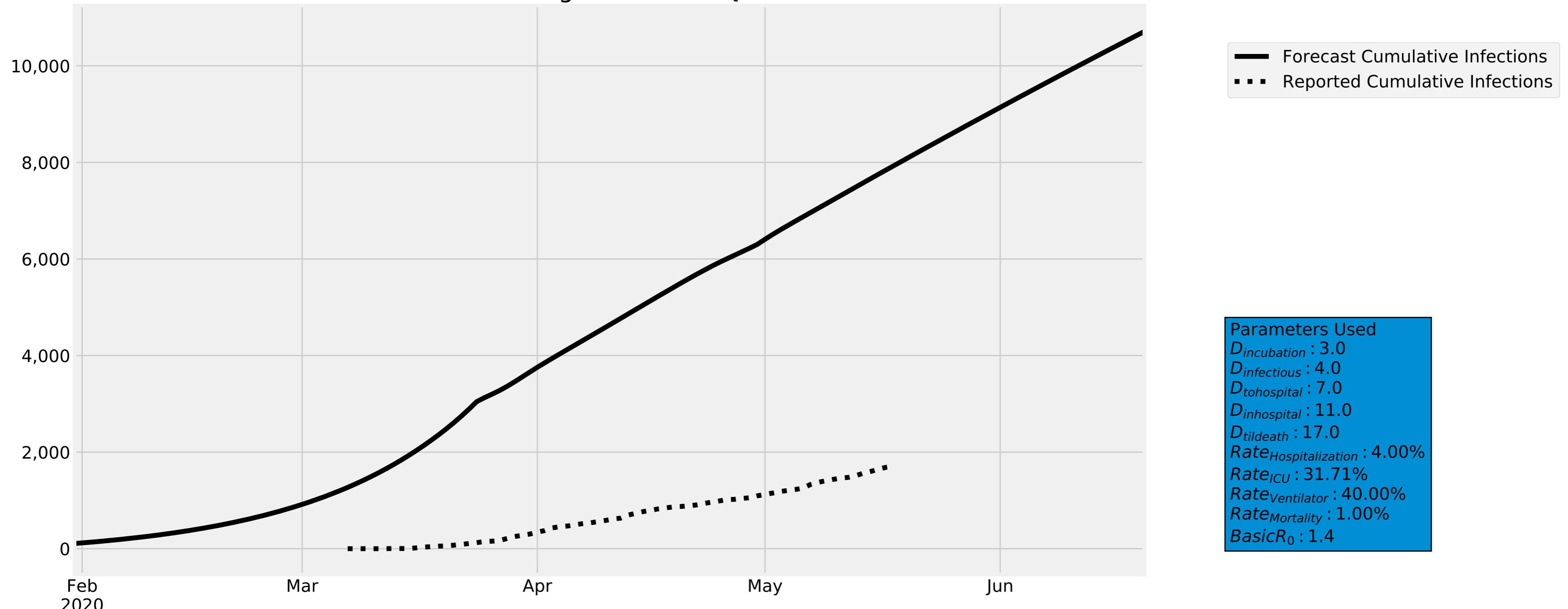
Author: Michael Donnelly (twtr: @donnellymj)
Chart created on 19 May 2020

Population Overview Forecast

Maine: No Change in Future R_t Scenario



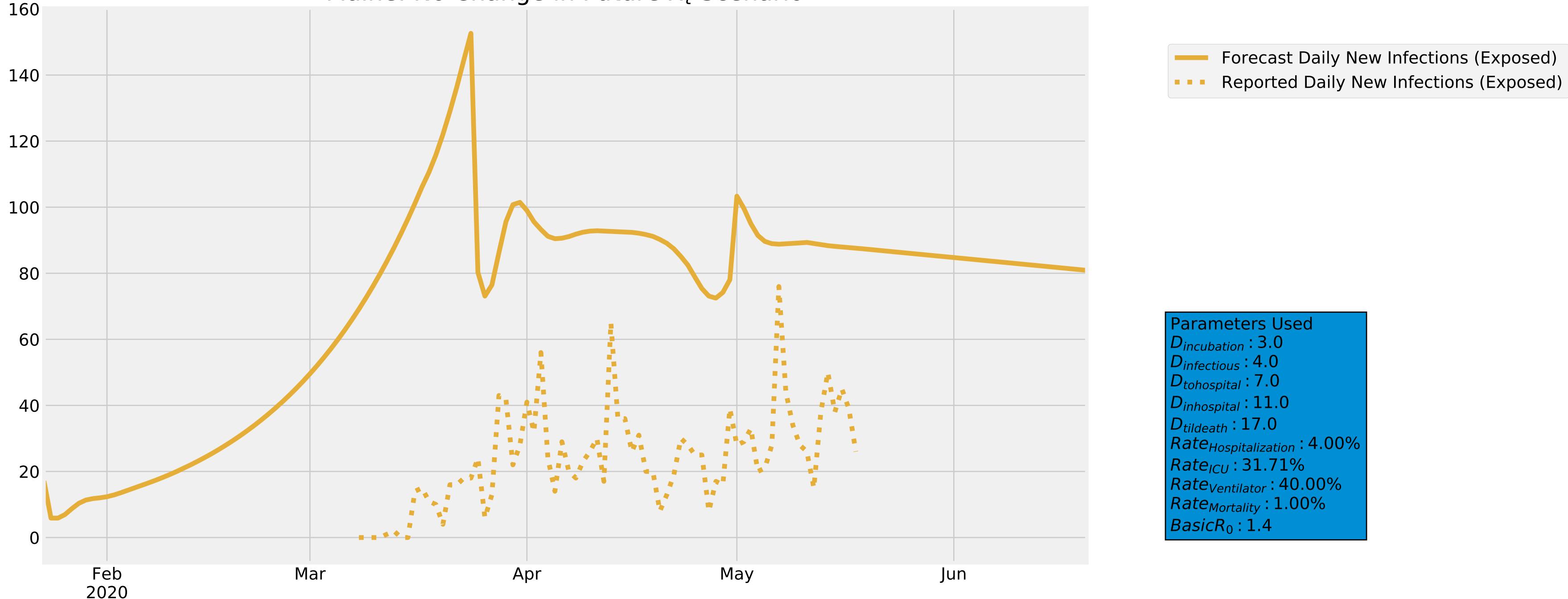
Cumulative Infections Forecast Maine: No Change in Future R_t Scenario



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%
 $BasicR_0$: 1.4

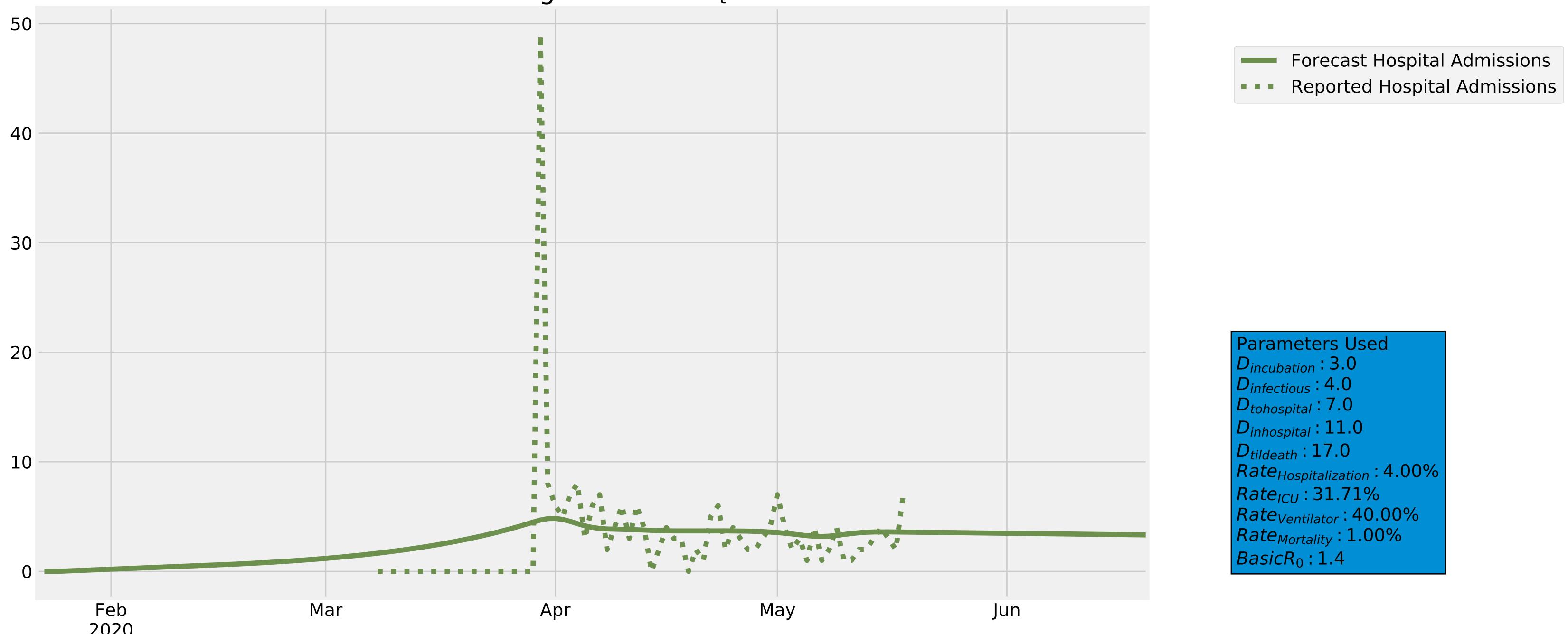
Daily Exposures Forecast Maine: No Change in Future R_t Scenario



Parameters Used

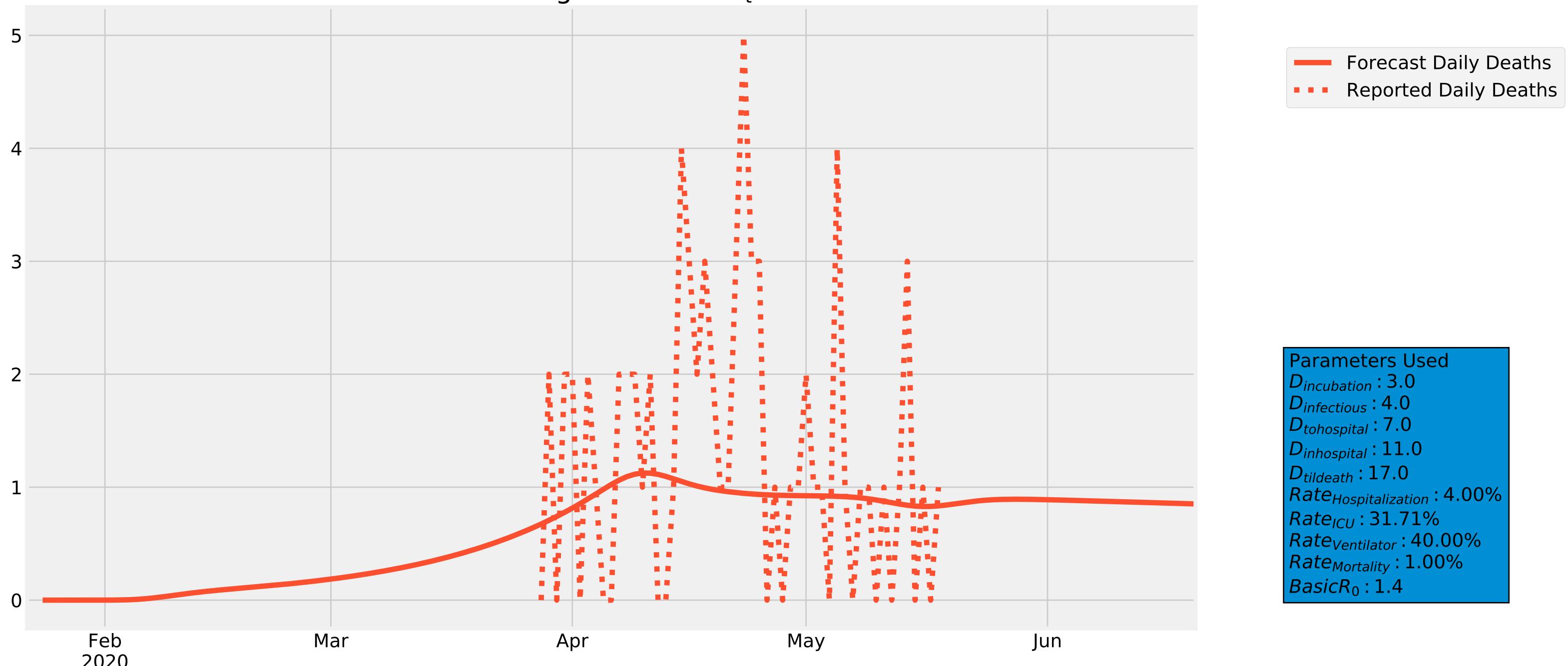
$D_{incubation}$: 3.0
 $D_{infectious}$: 4.0
 $D_{tohospital}$: 7.0
 $D_{inhospital}$: 11.0
 $D_{tildeath}$: 17.0
 $Rate_{Hospitalization}$: 4.00%
 $Rate_{ICU}$: 31.71%
 $Rate_{Ventilator}$: 40.00%
 $Rate_{Mortality}$: 1.00%
 $BasicR_0$: 1.4

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



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

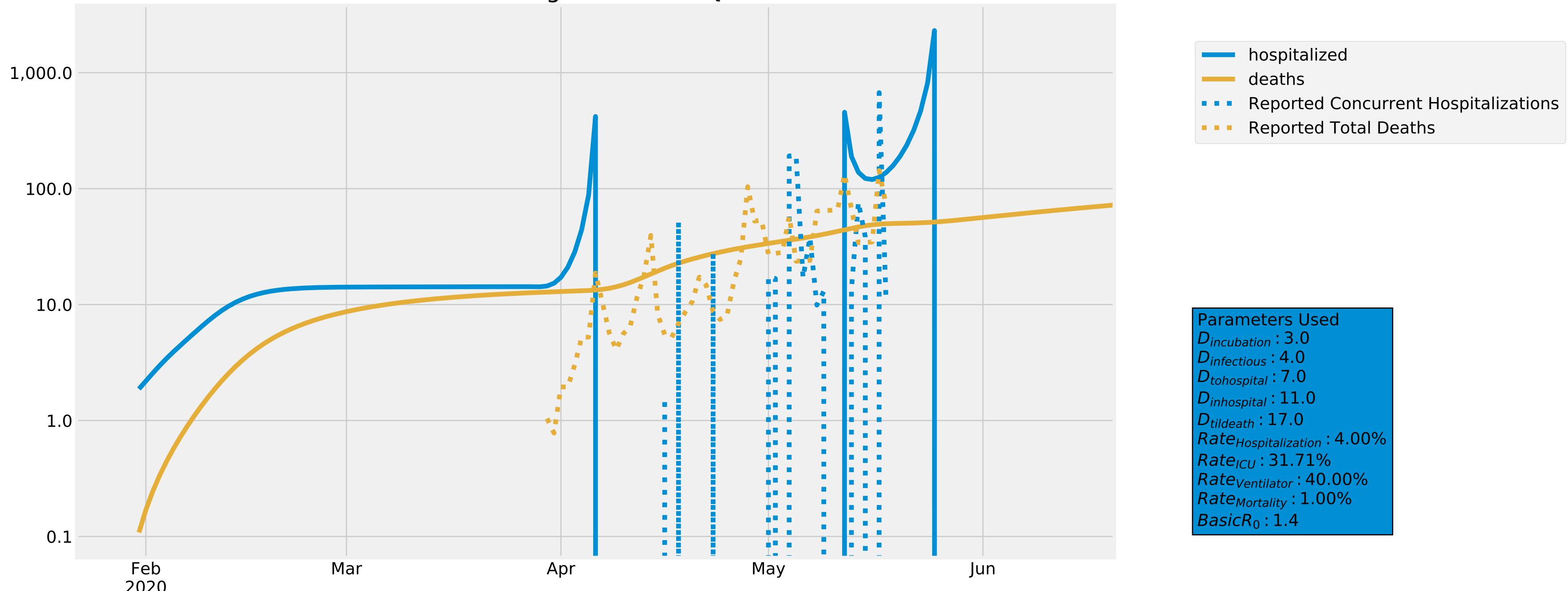
Daily Deaths Forecast Maine: No Change in Future R_t Scenario



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

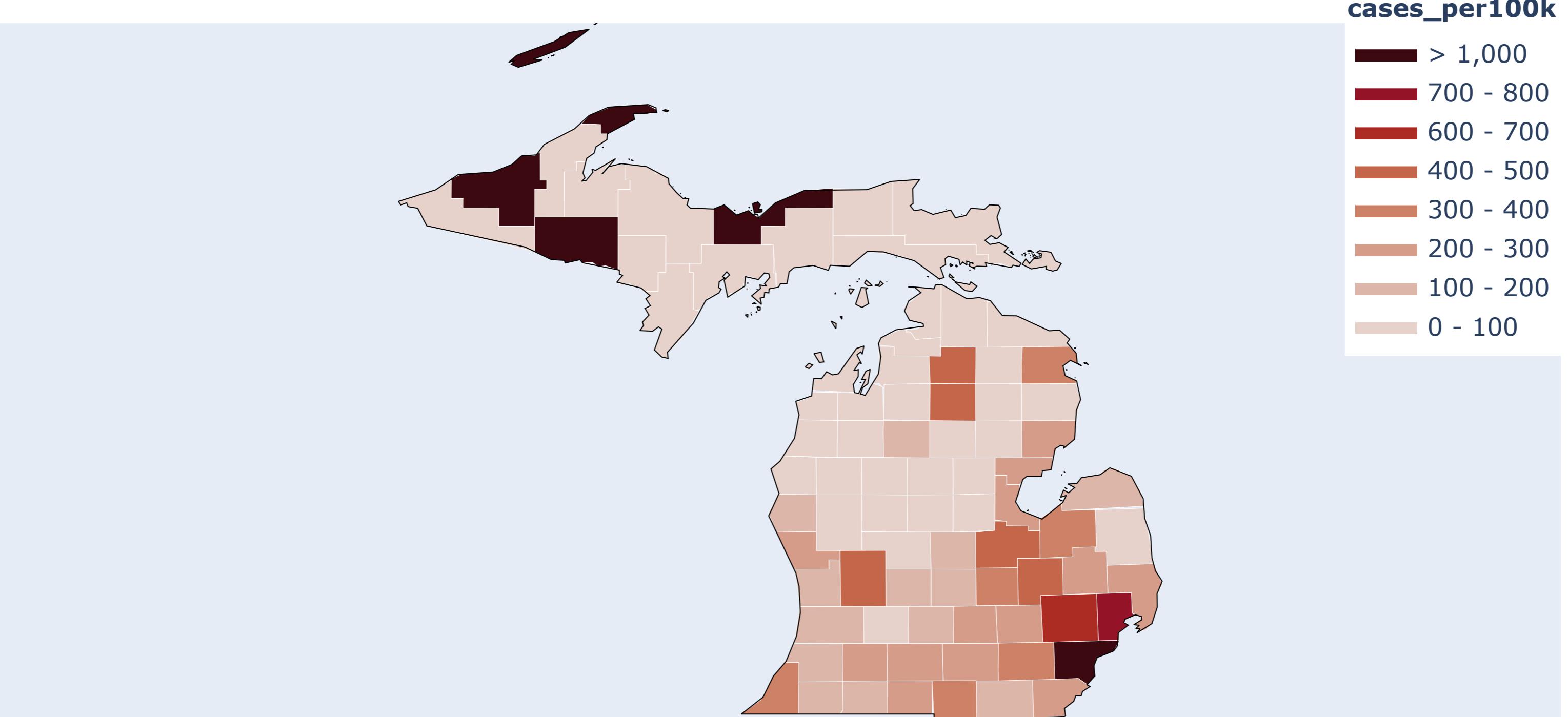
Doubling Rate Forecast

Maine: No Change in Future R_t Scenario

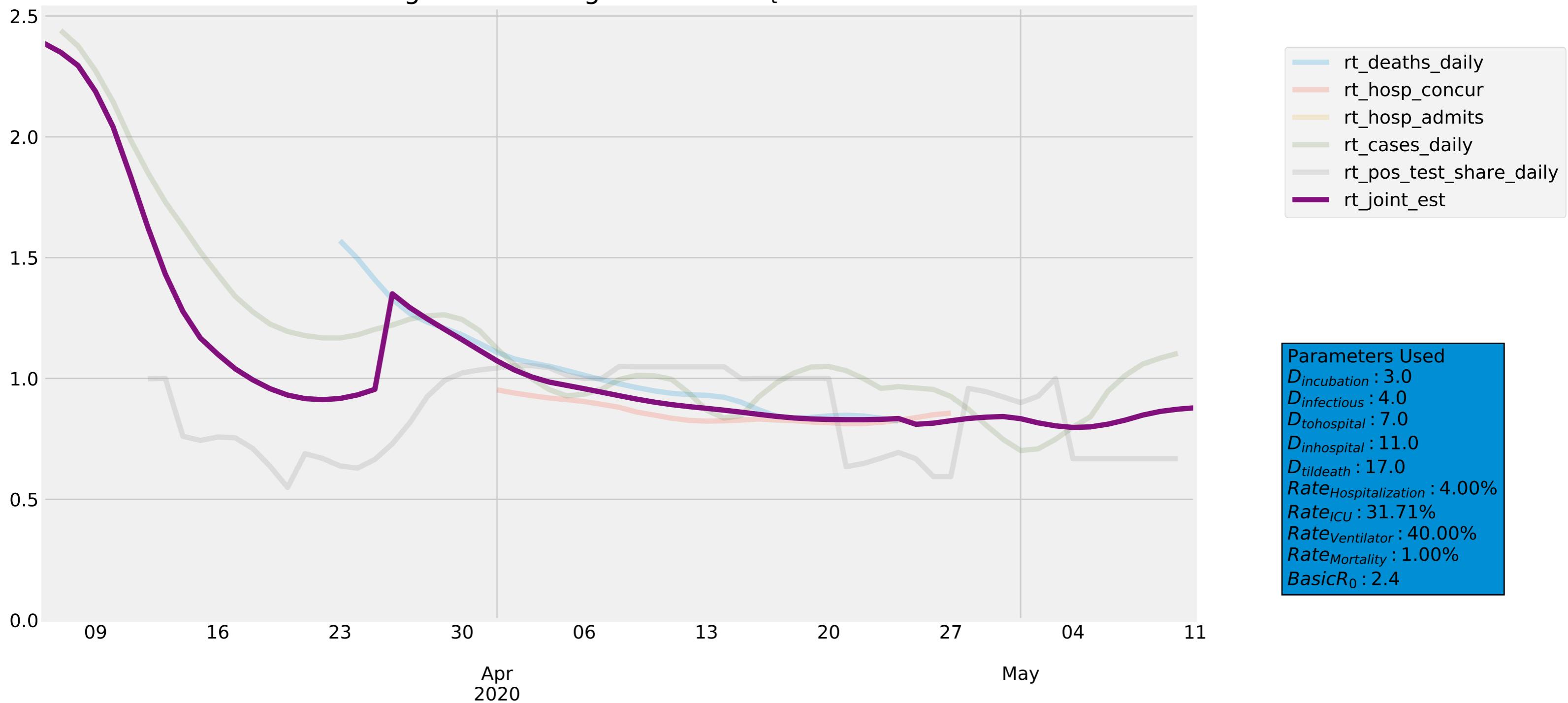


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Michigan: COVID-19 Cases Per 100k Residents



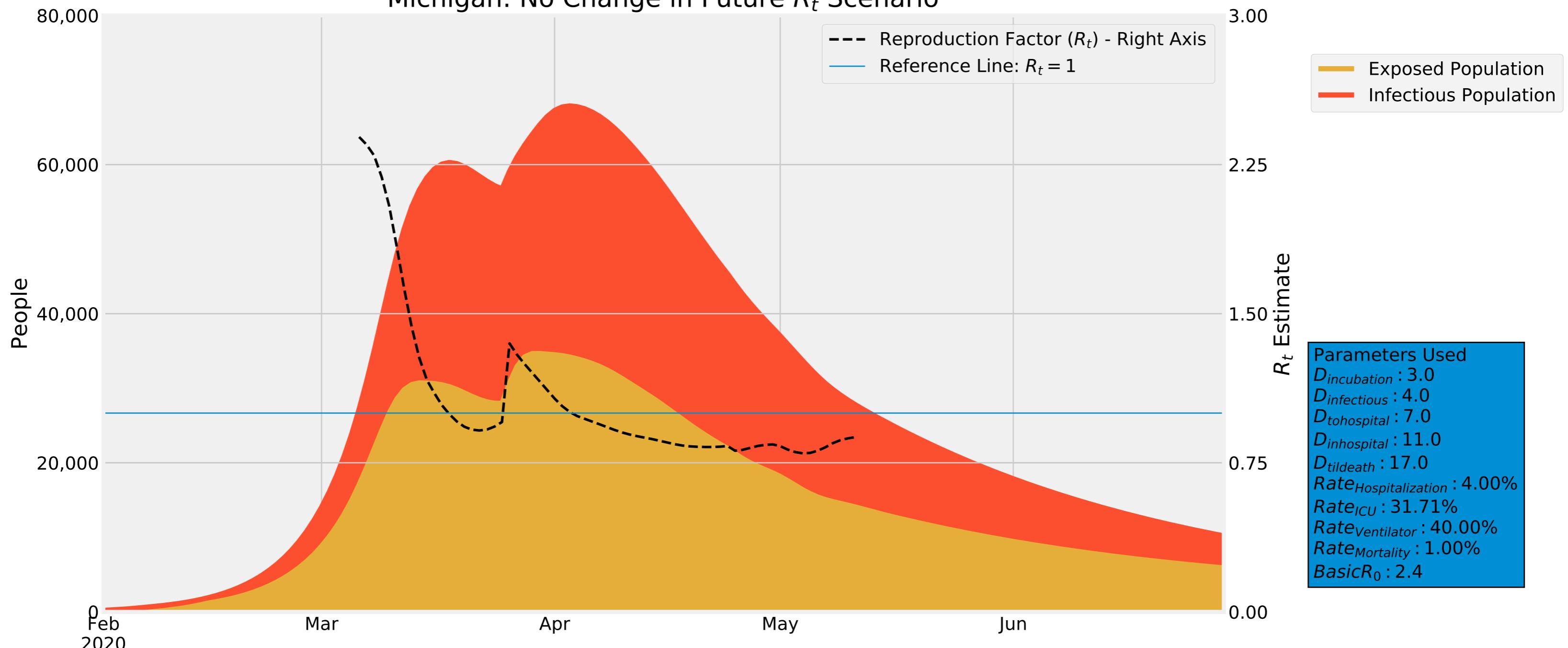
Reproduction Rate (R_t) Estimates Michigan: No Change in Future R_t Scenario



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

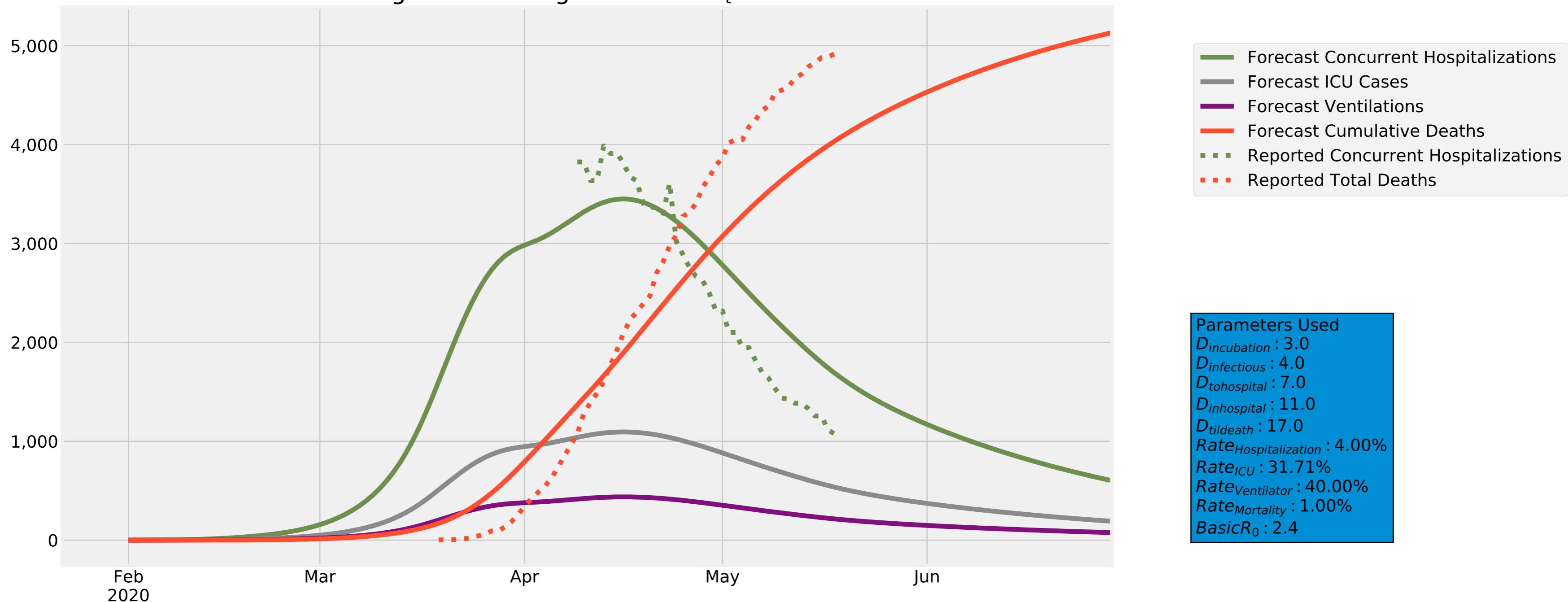
Simultaneous Infections Forecast

Michigan: No Change in Future R_t Scenario



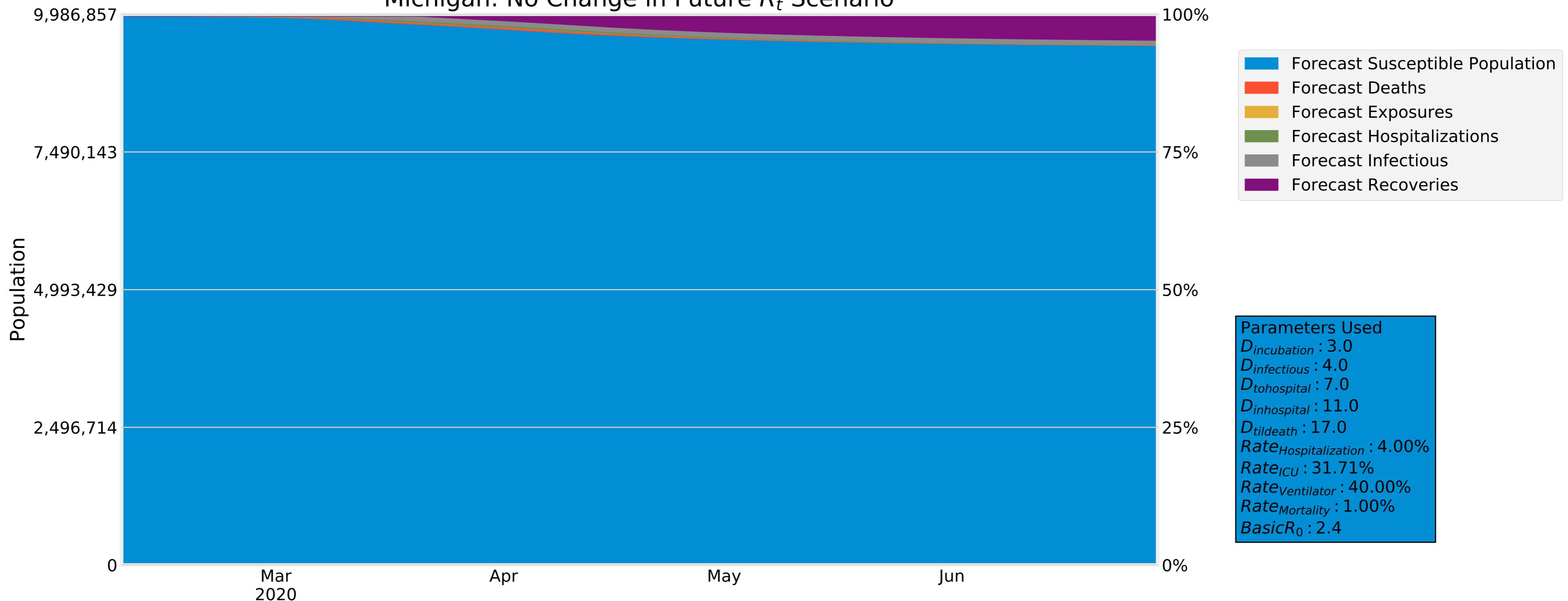
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

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

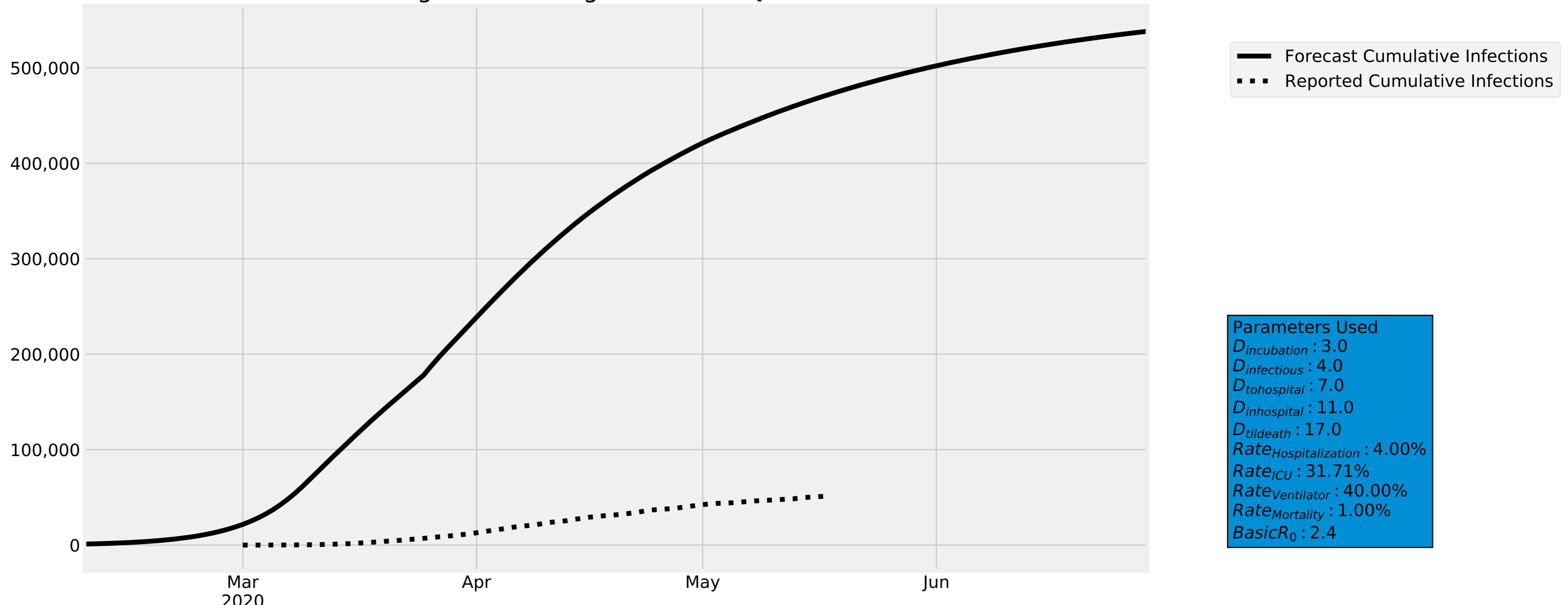


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast Michigan: No Change in Future R_t Scenario



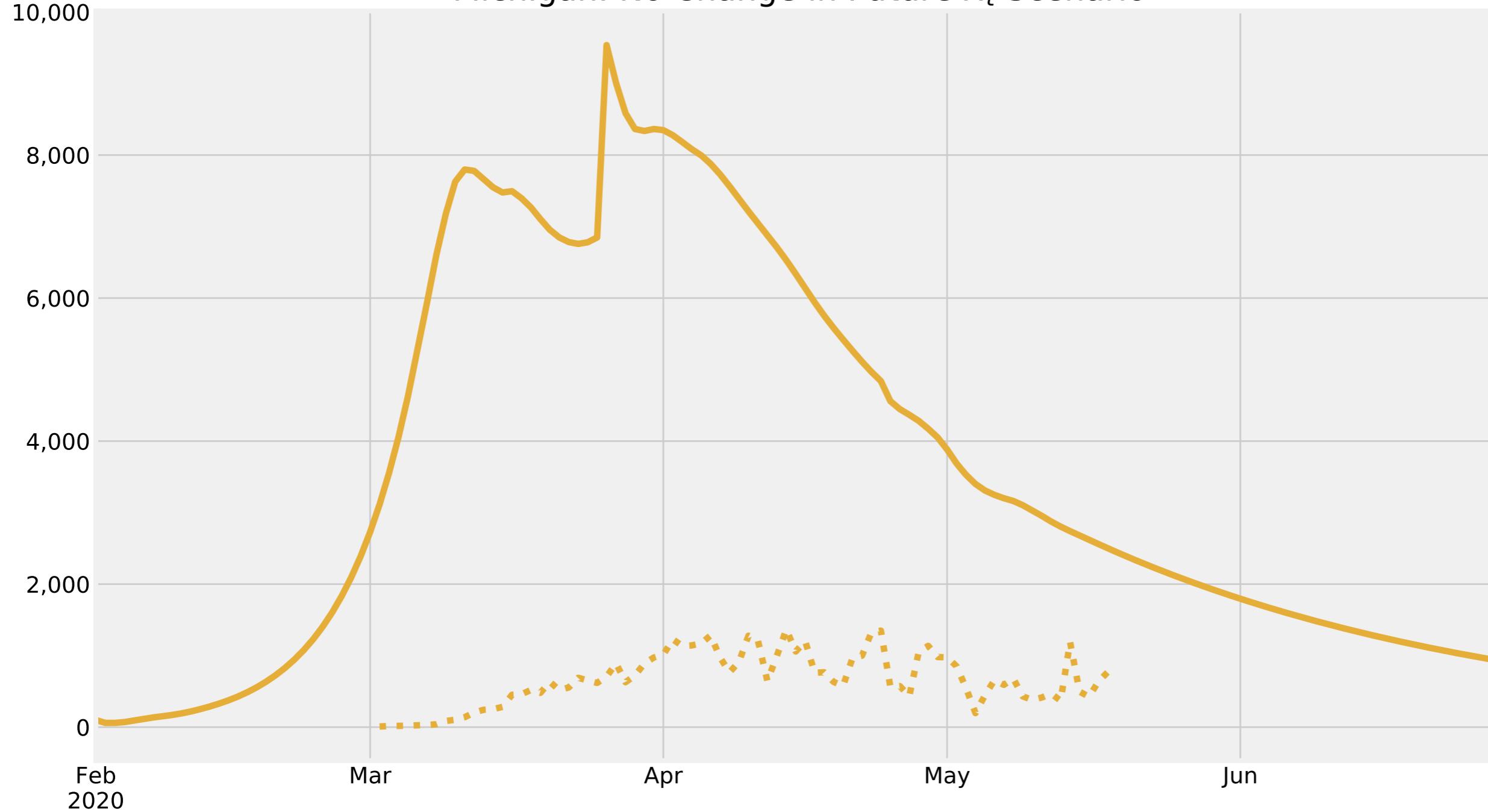
Cumulative Infections Forecast Michigan: No Change in Future R_t Scenario



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%
- $BasicR_0$: 2.4

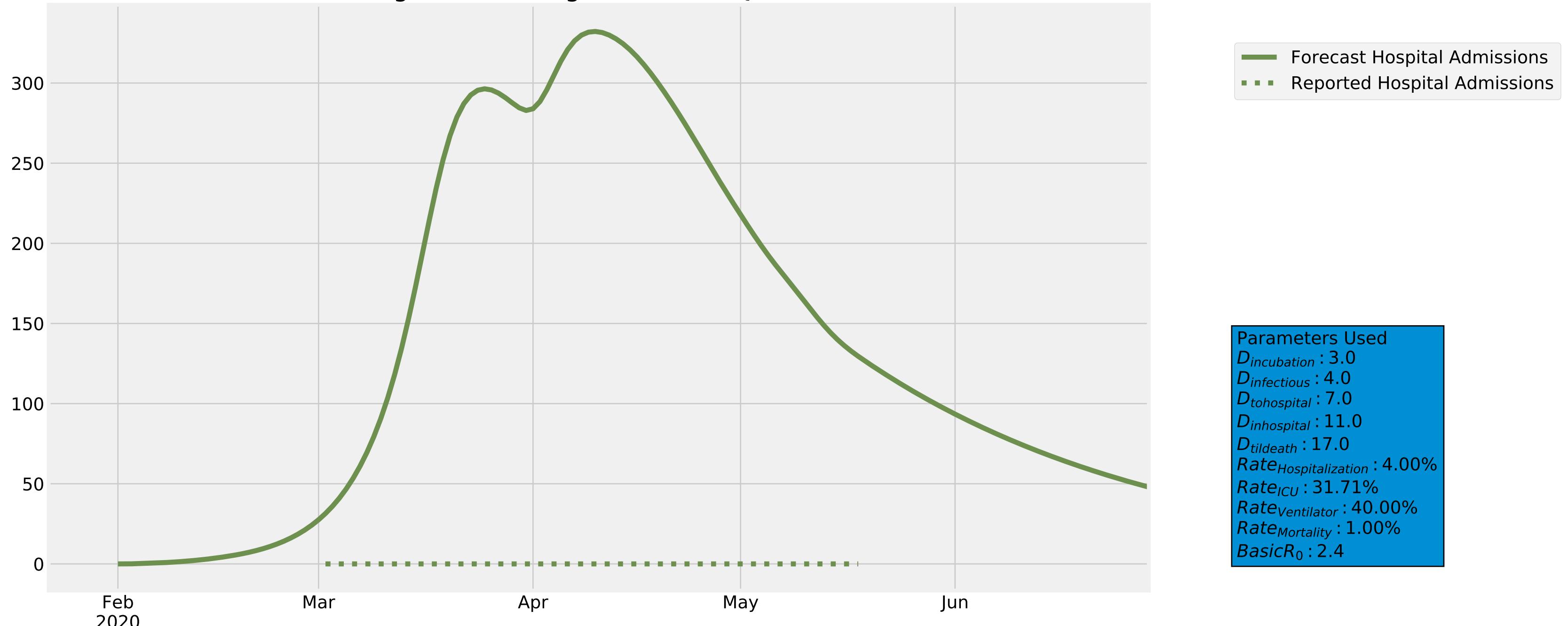
Daily Exposures Forecast Michigan: No Change in Future R_t Scenario



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%
$BasicR_0$: 2.4

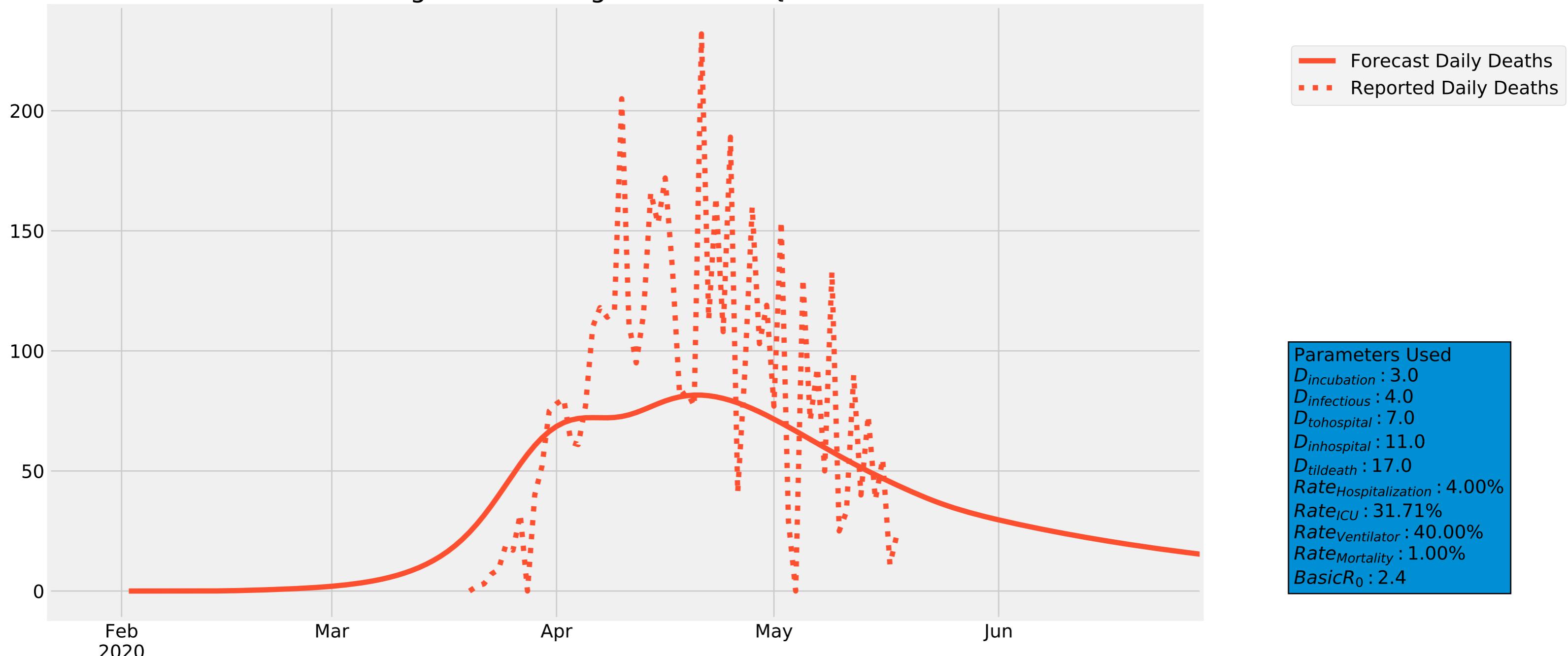
Daily Hospital Admissions Forecast Michigan: No Change in Future R_t Scenario



Parameters Used

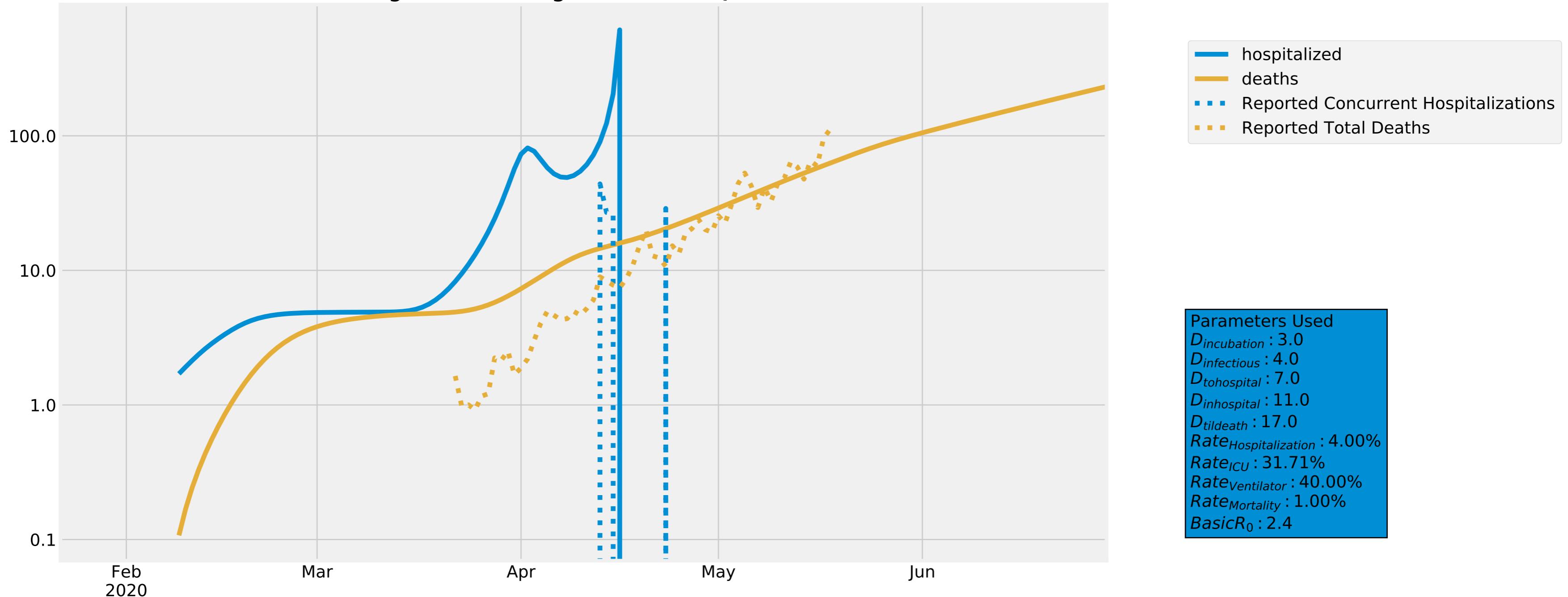
$D_{incubation}$: 3.0
$D_{infectious}$: 4.0
$D_{tohospital}$: 7.0
$D_{inhospital}$: 11.0
$D_{tildeath}$: 17.0
$Rate_{Hospitalization}$: 4.00%
$Rate_{ICU}$: 31.71%
$Rate_{Ventilator}$: 40.00%
$Rate_{Mortality}$: 1.00%
$BasicR_0$: 2.4

Daily Deaths Forecast Michigan: No Change in Future R_t Scenario



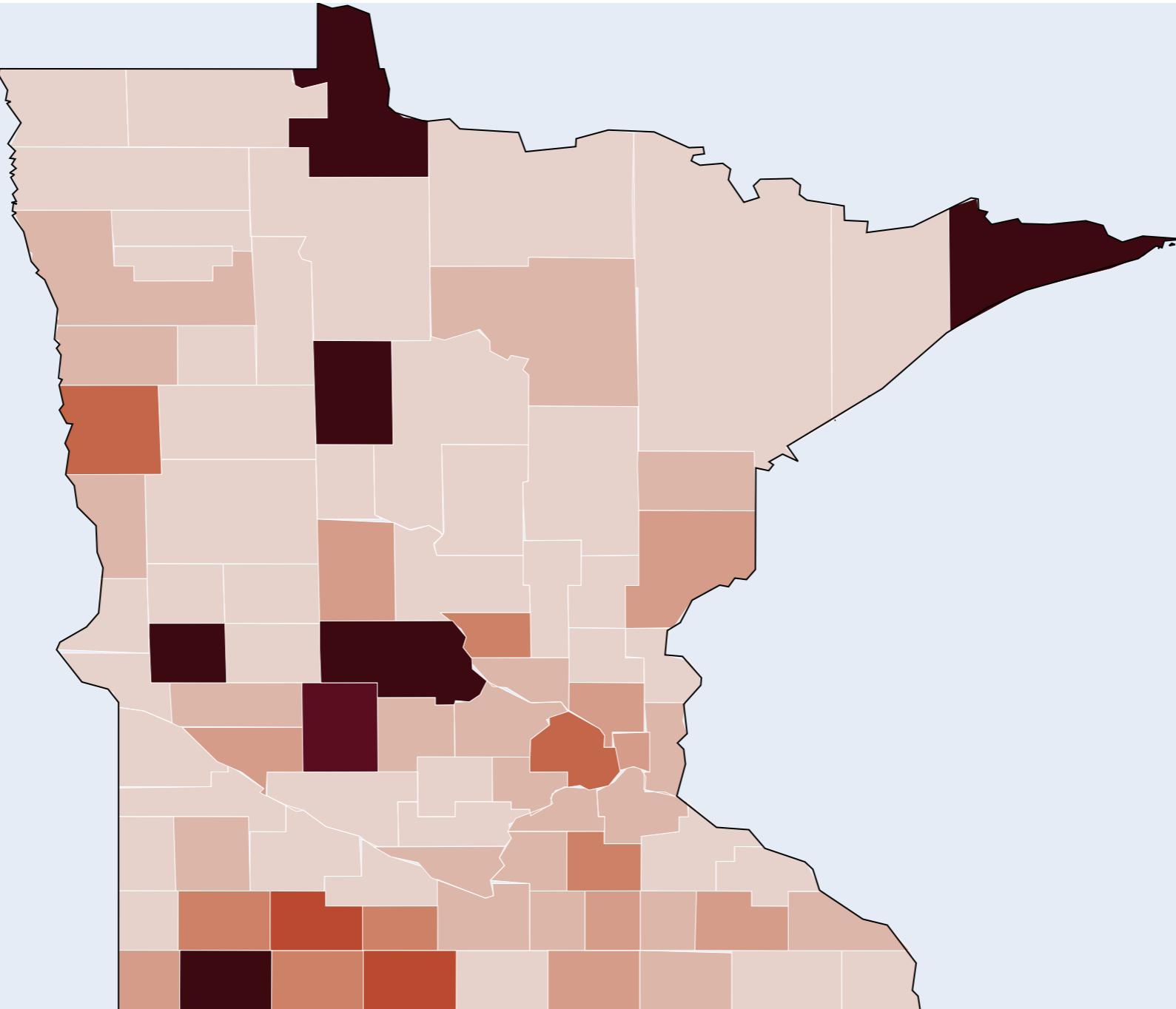
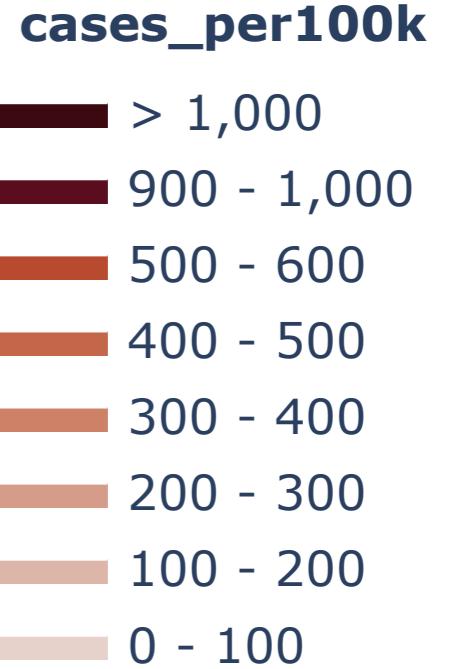
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Michigan: No Change in Future R_t Scenario

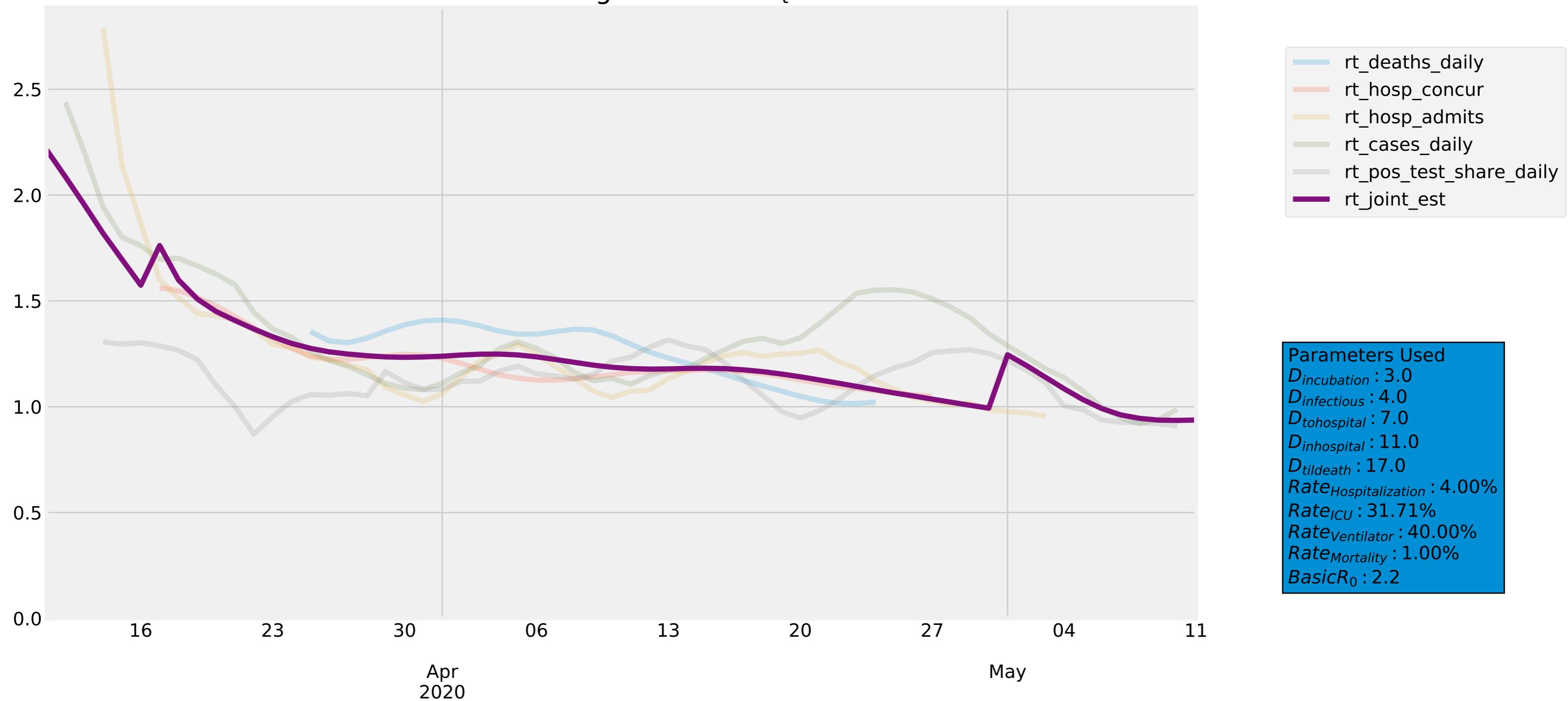


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Minnesota: COVID-19 Cases Per 100k Residents



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

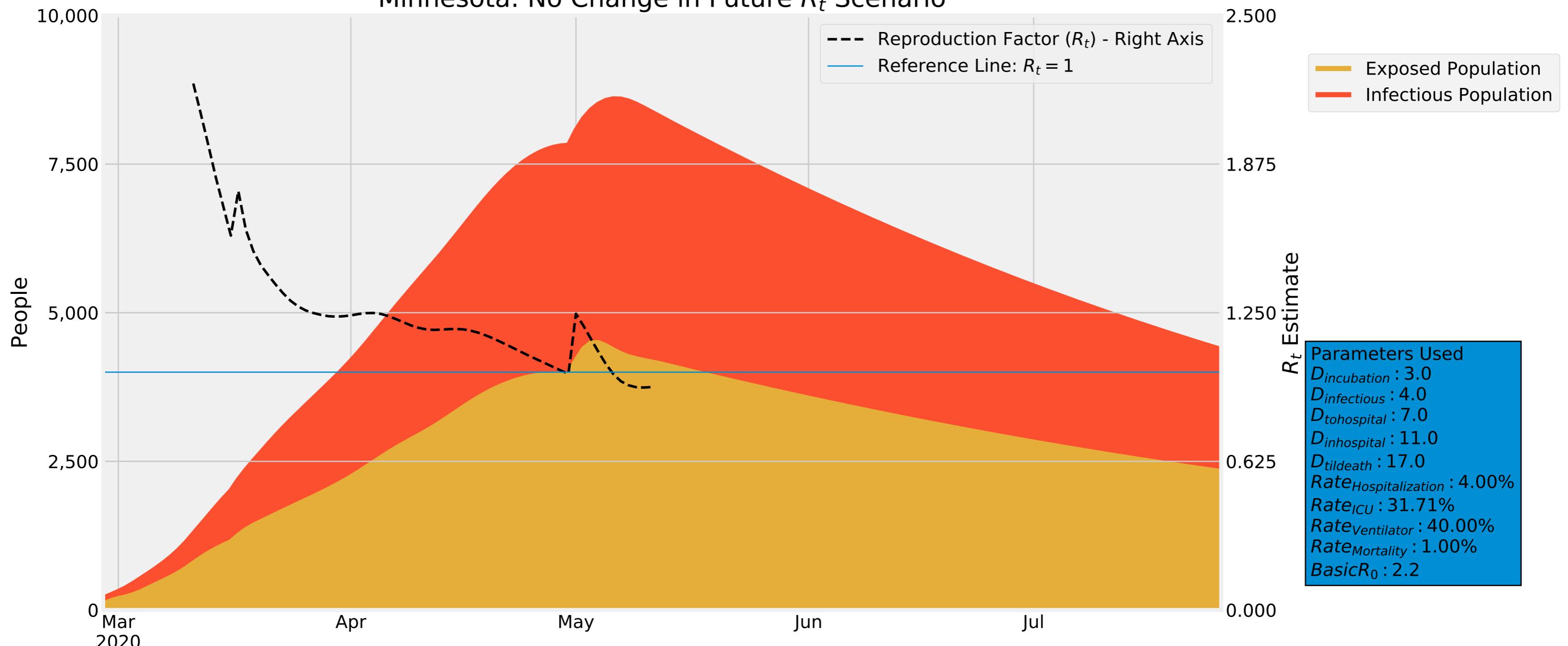


Parameters Used

$D_{incubation}$:	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%
Basic R_0 :	2.2

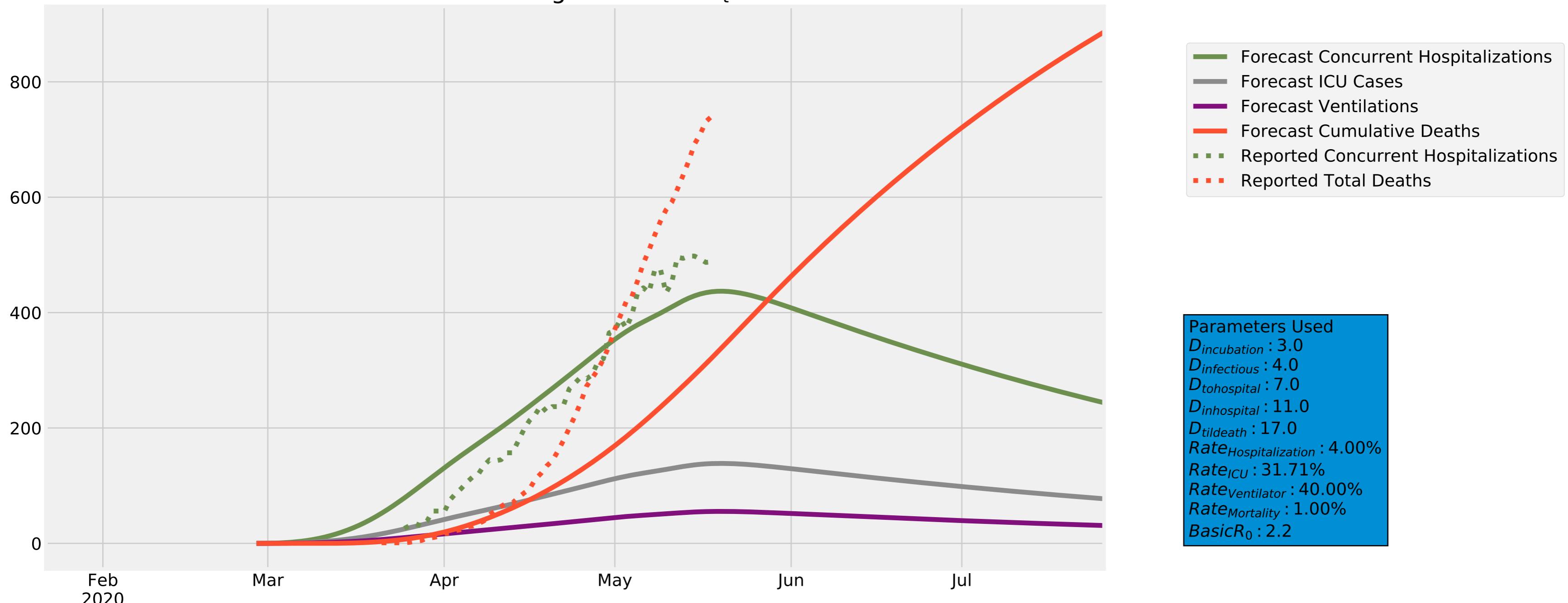
Simultaneous Infections Forecast

Minnesota: No Change in Future R_t Scenario



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

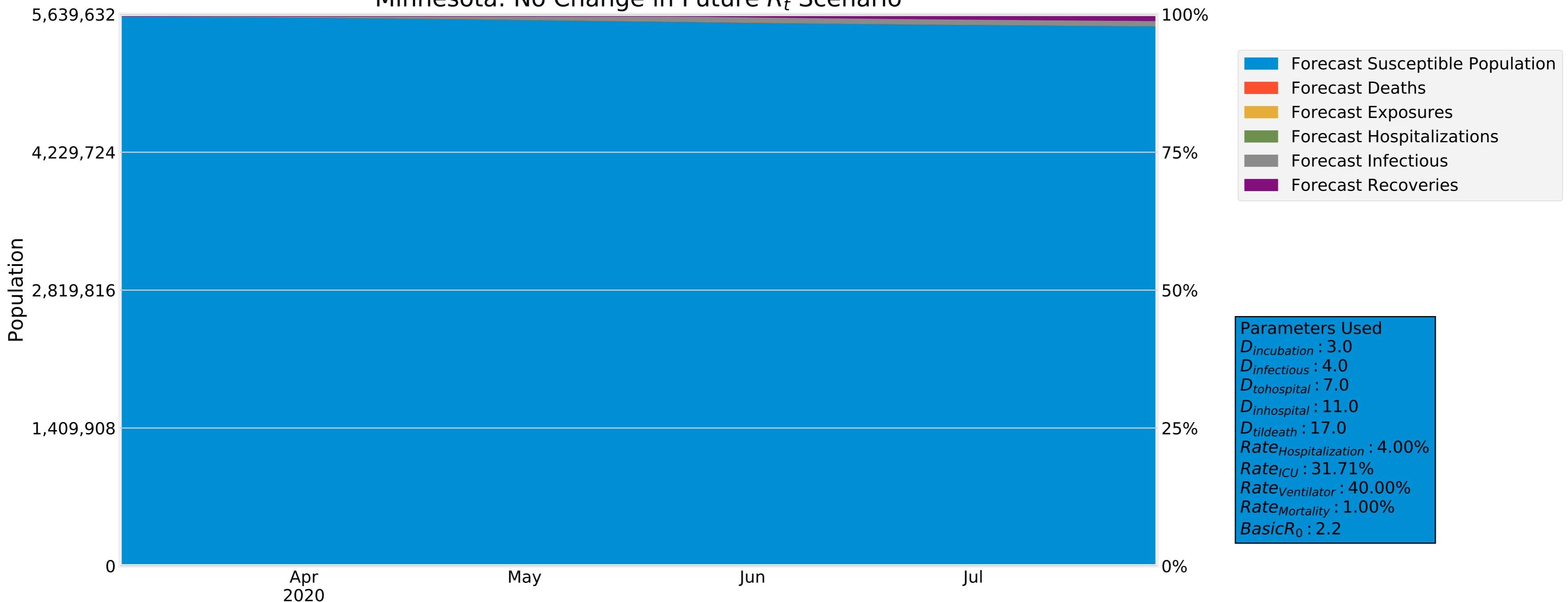
Hospitalization and Deaths Forecast Minnesota: No Change in Future R_t Scenario



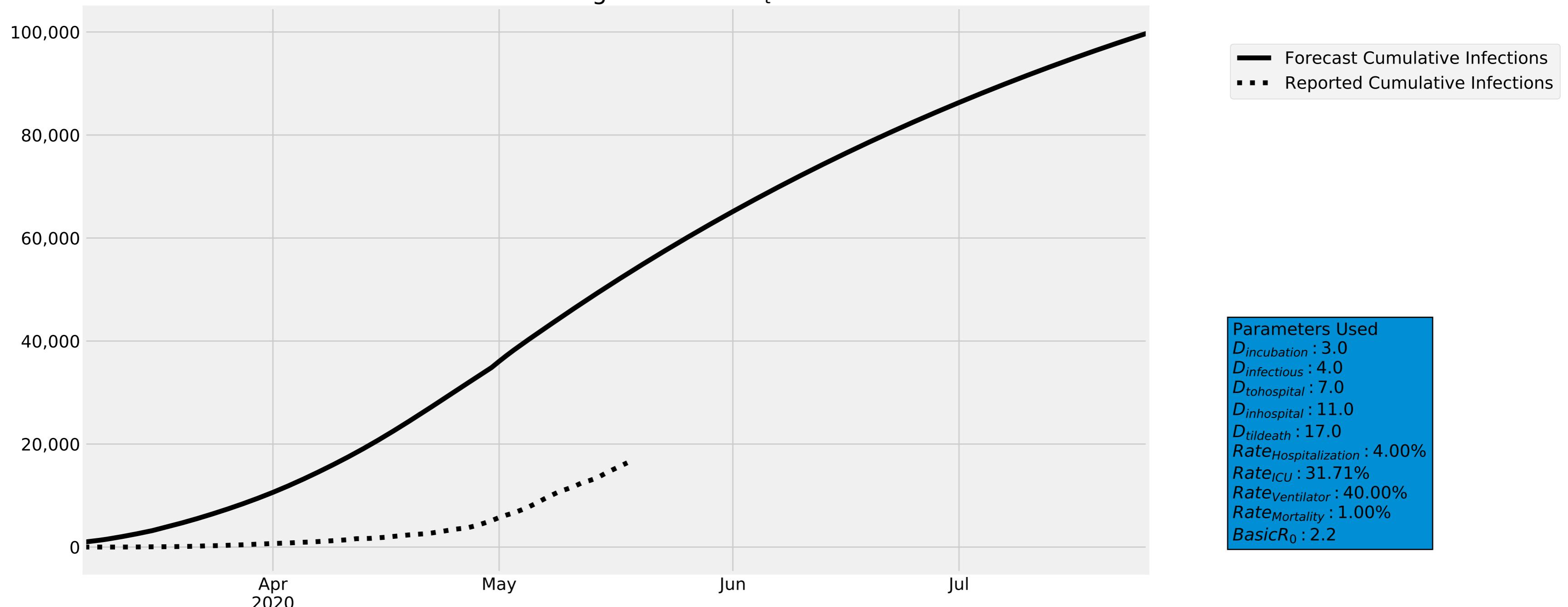
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

Minnesota: No Change in Future R_t Scenario



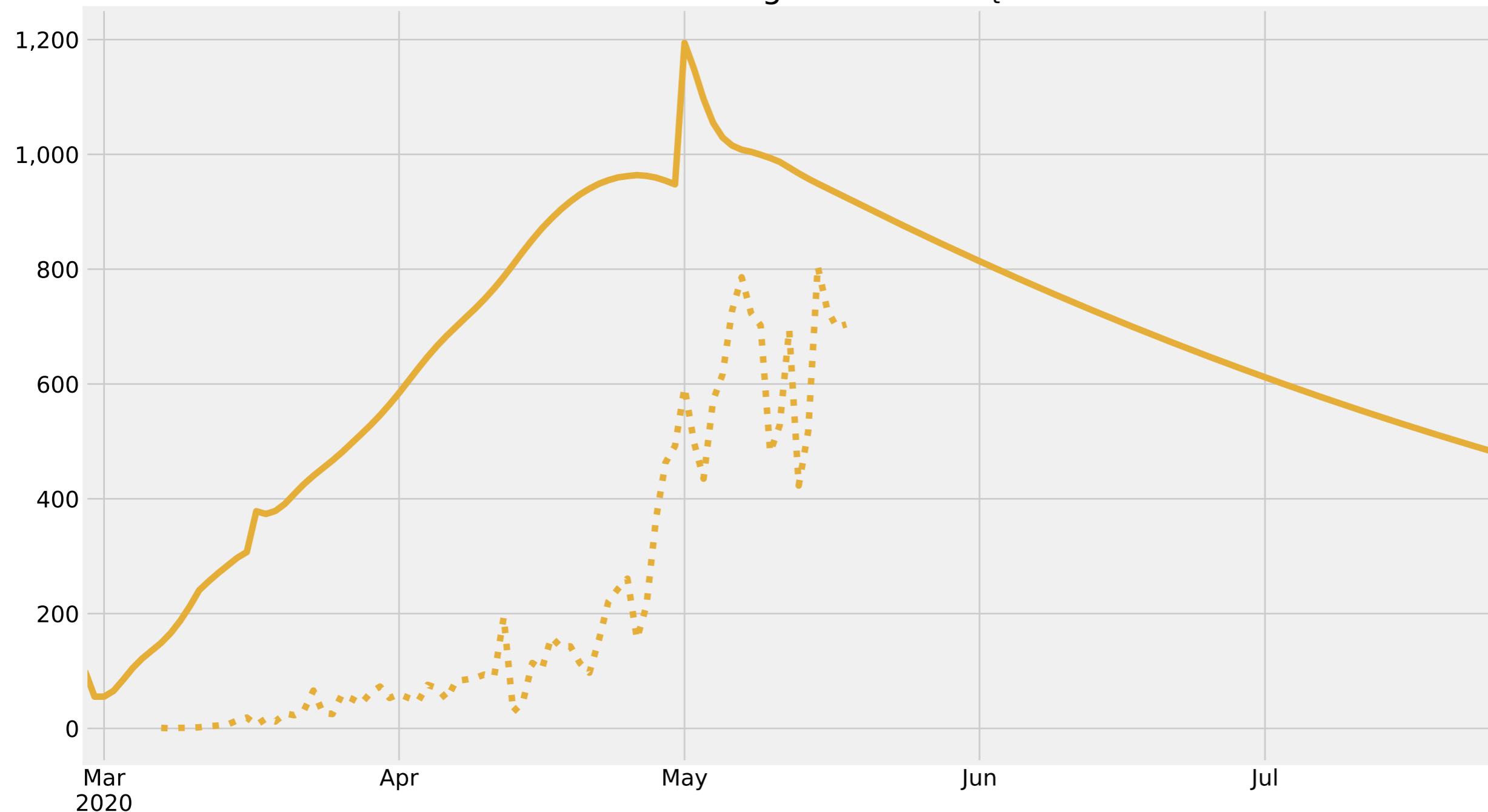
Cumulative Infections Forecast Minnesota: No Change in Future R_t Scenario



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%
 $BasicR_0$: 2.2

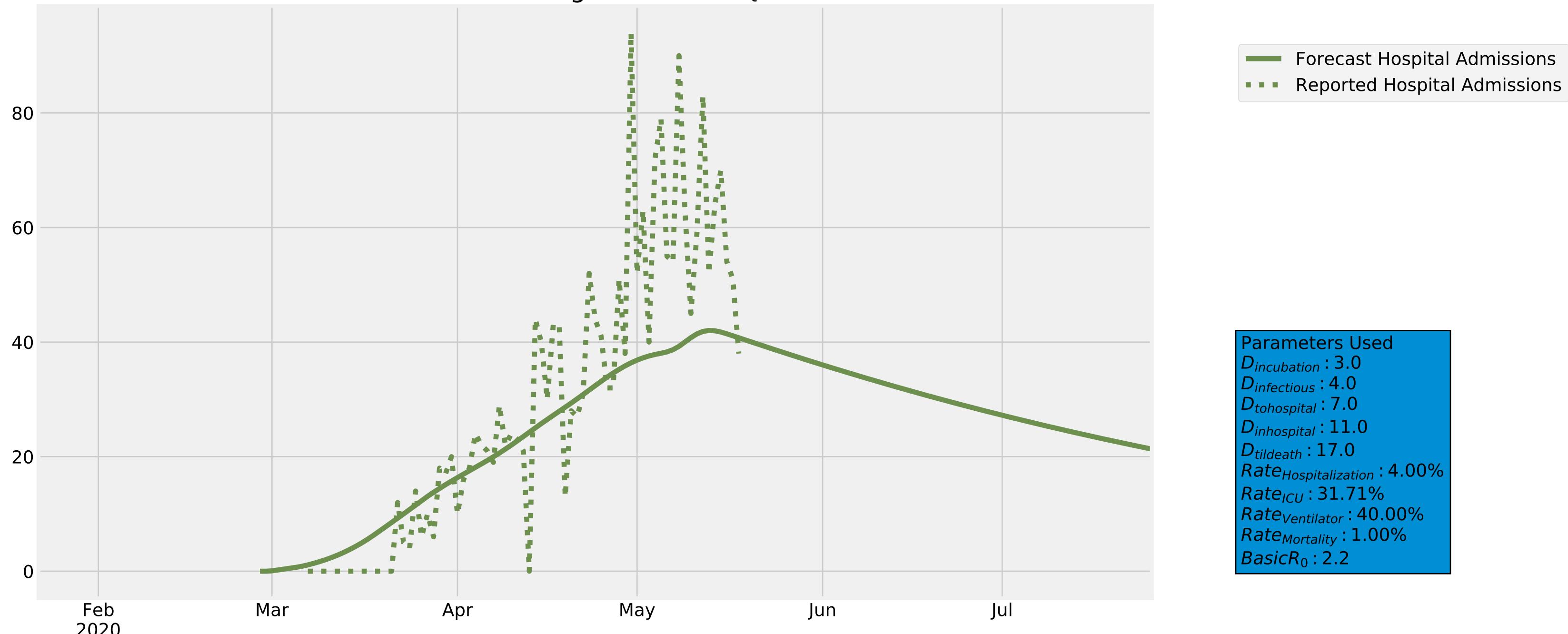
Daily Exposures Forecast Minnesota: No Change in Future R_t Scenario



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%
Basic R_0	: 2.2

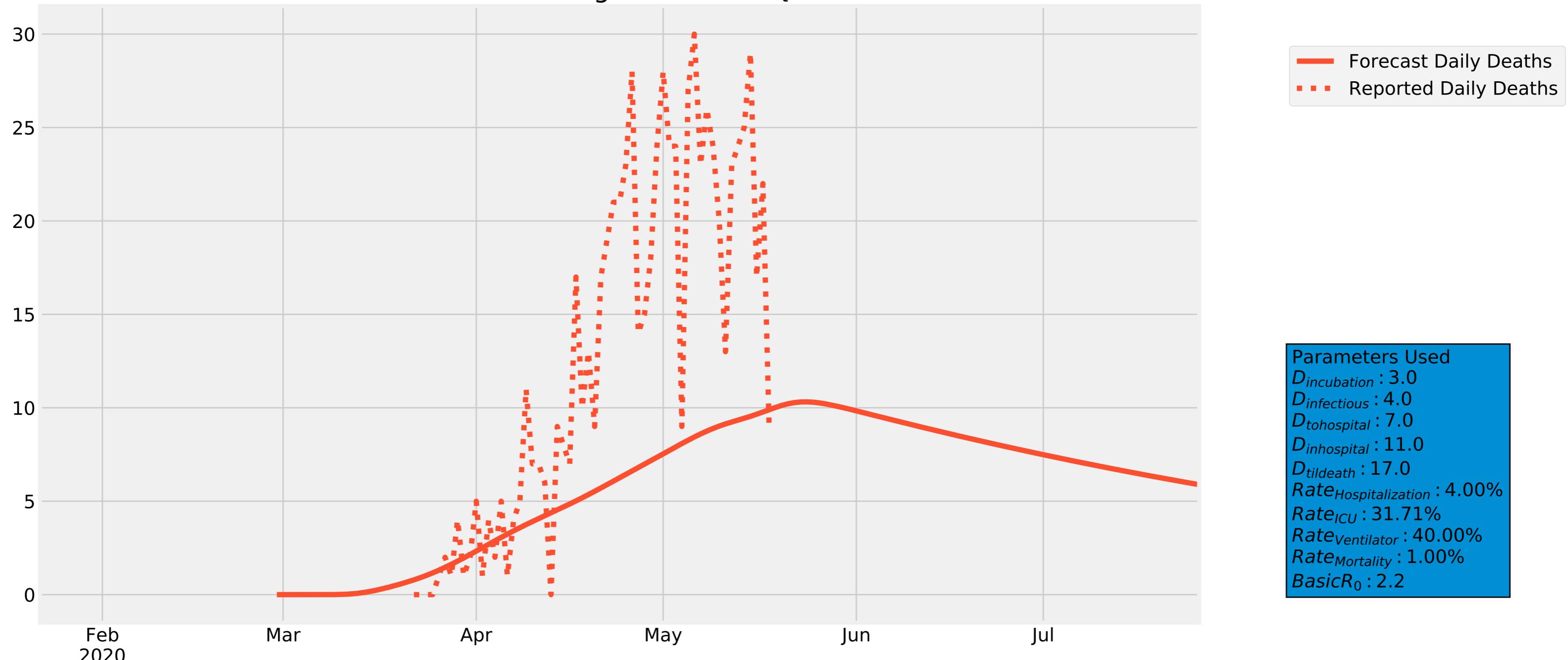
Daily Hospital Admissions Forecast Minnesota: No Change in Future R_t Scenario



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

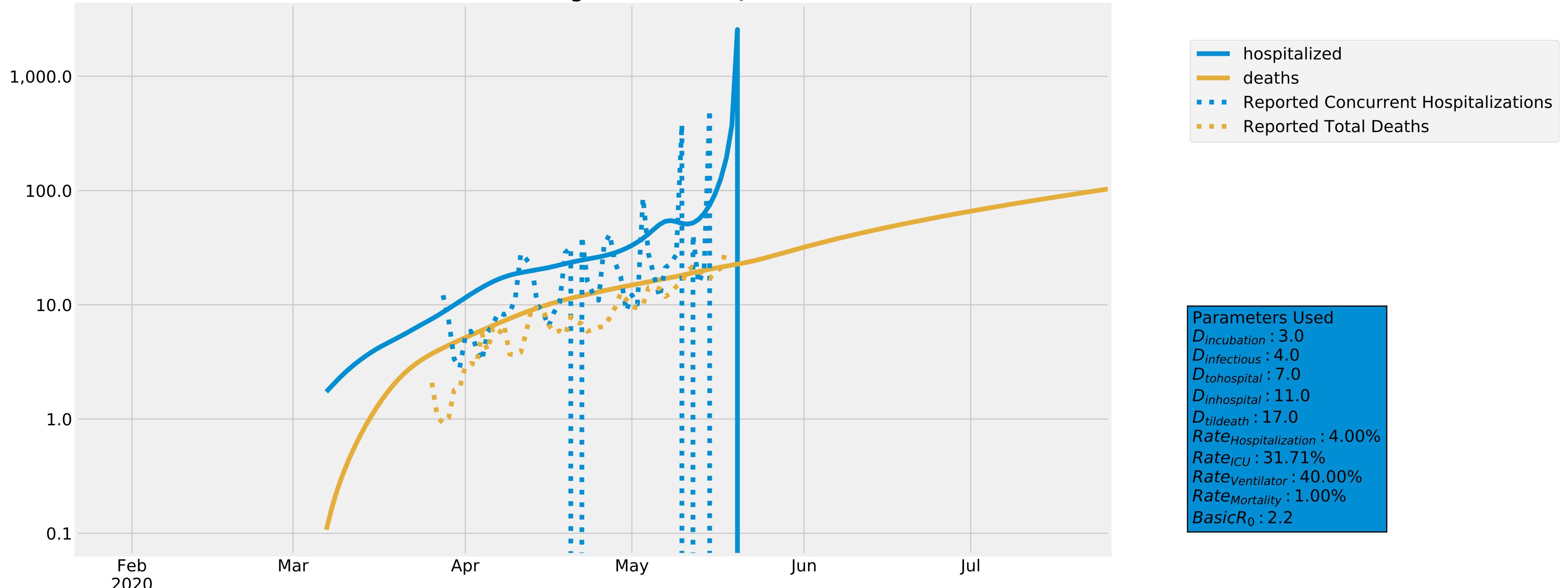
Daily Deaths Forecast

Minnesota: No Change in Future R_t Scenario



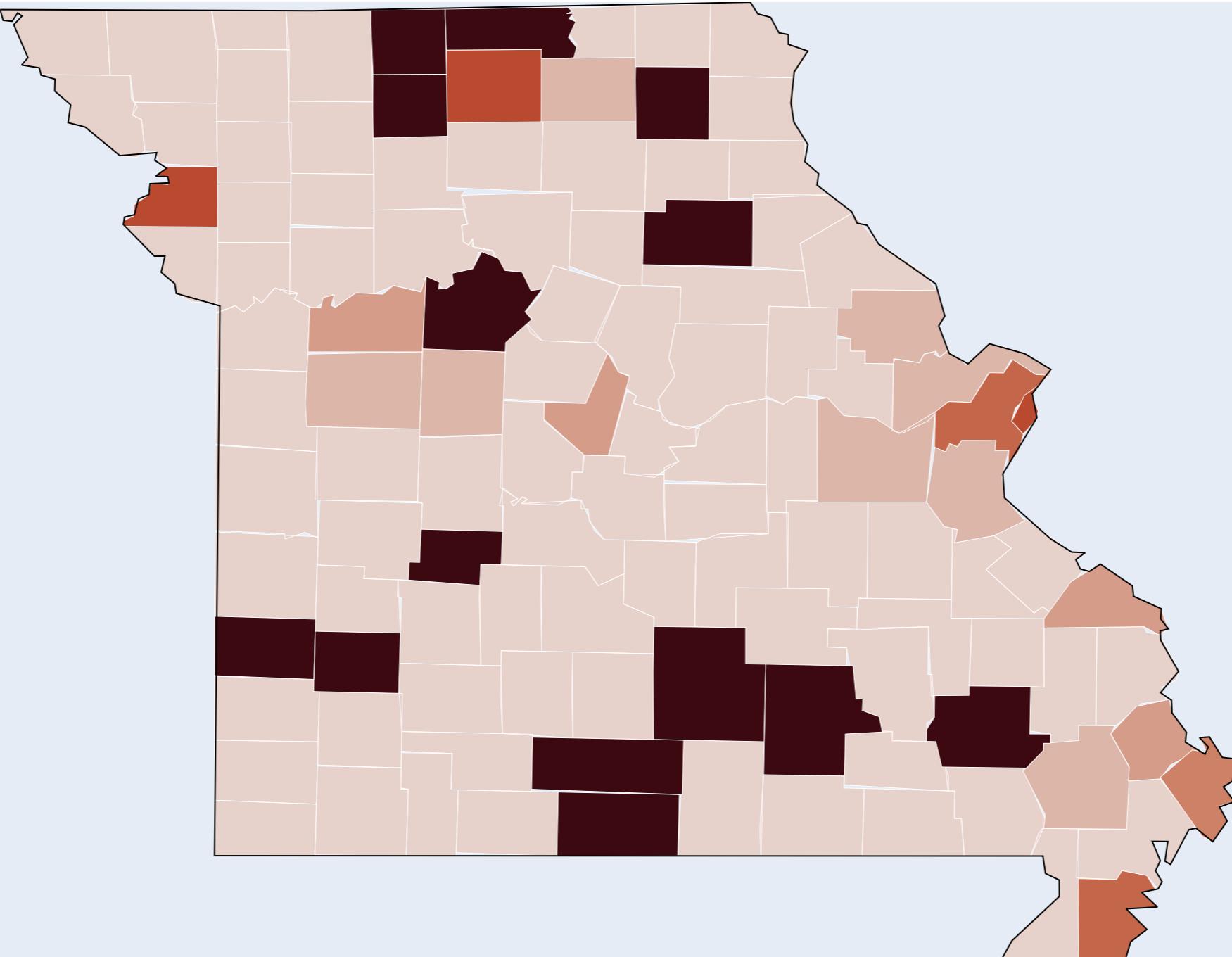
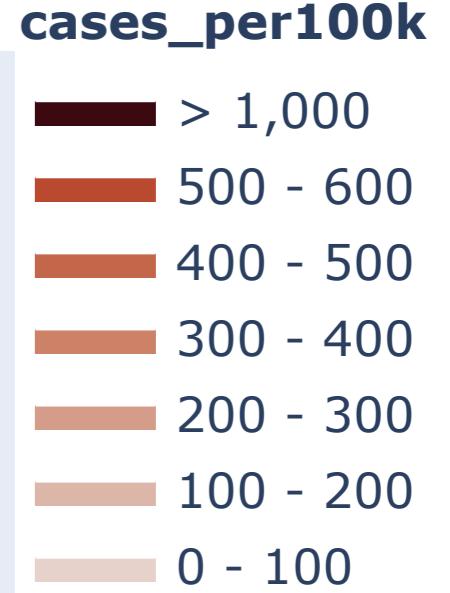
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Minnesota: No Change in Future R_t Scenario

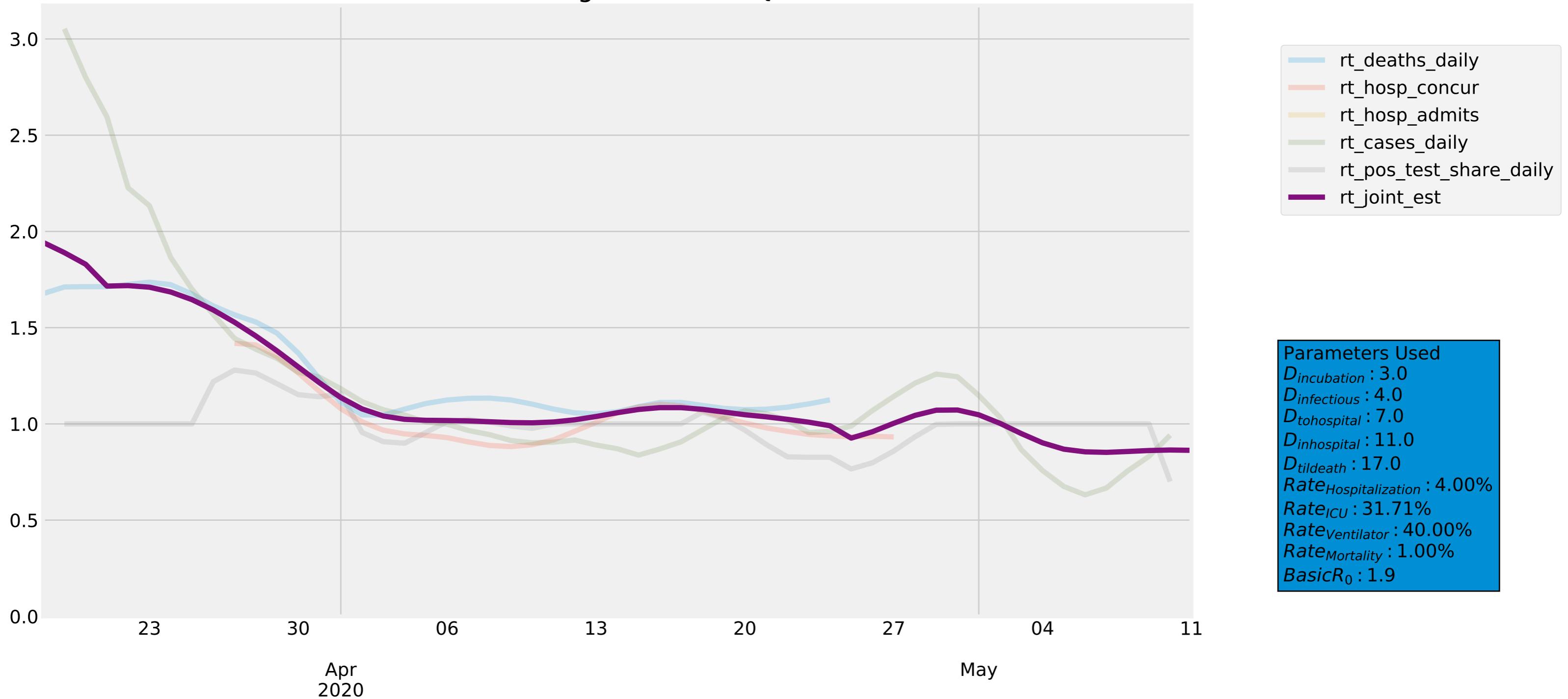


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Missouri: COVID-19 Cases Per 100k Residents



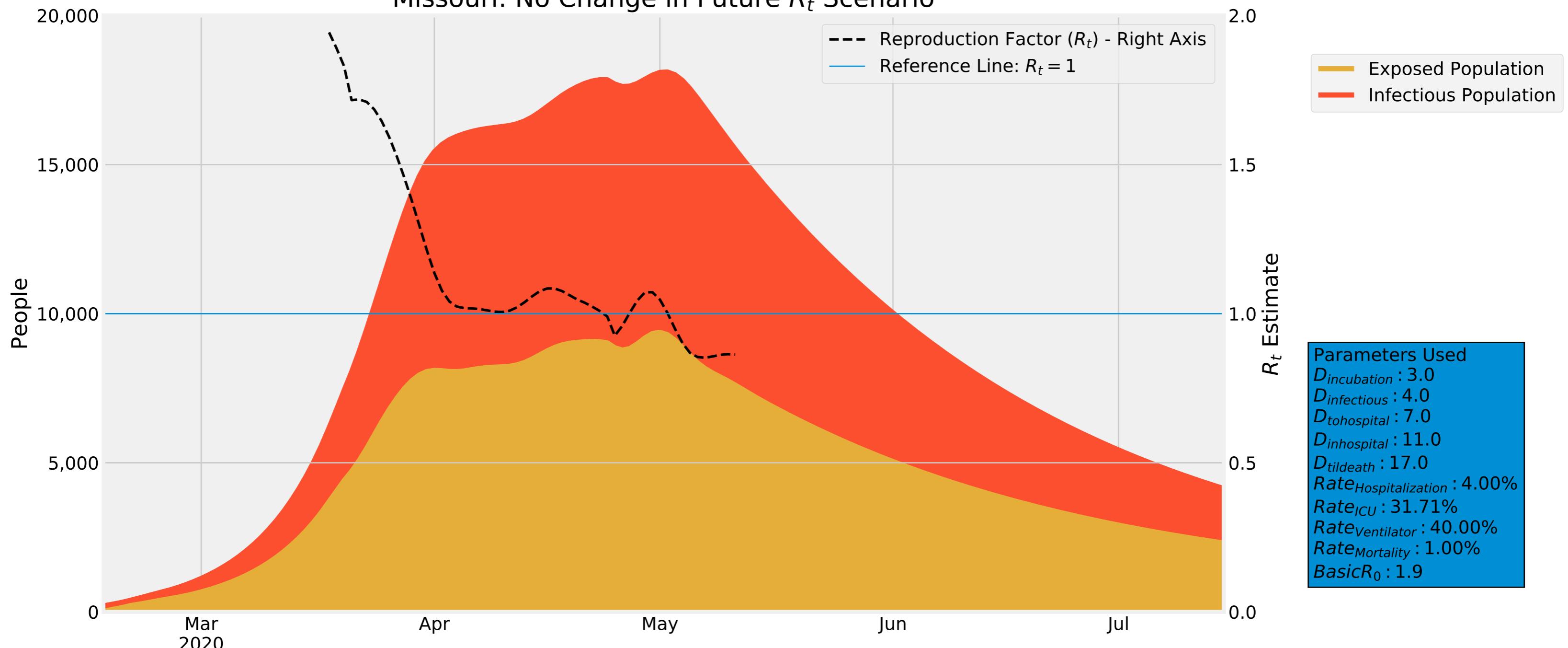
Reproduction Rate (R_t) Estimates Missouri: No Change in Future R_t Scenario



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

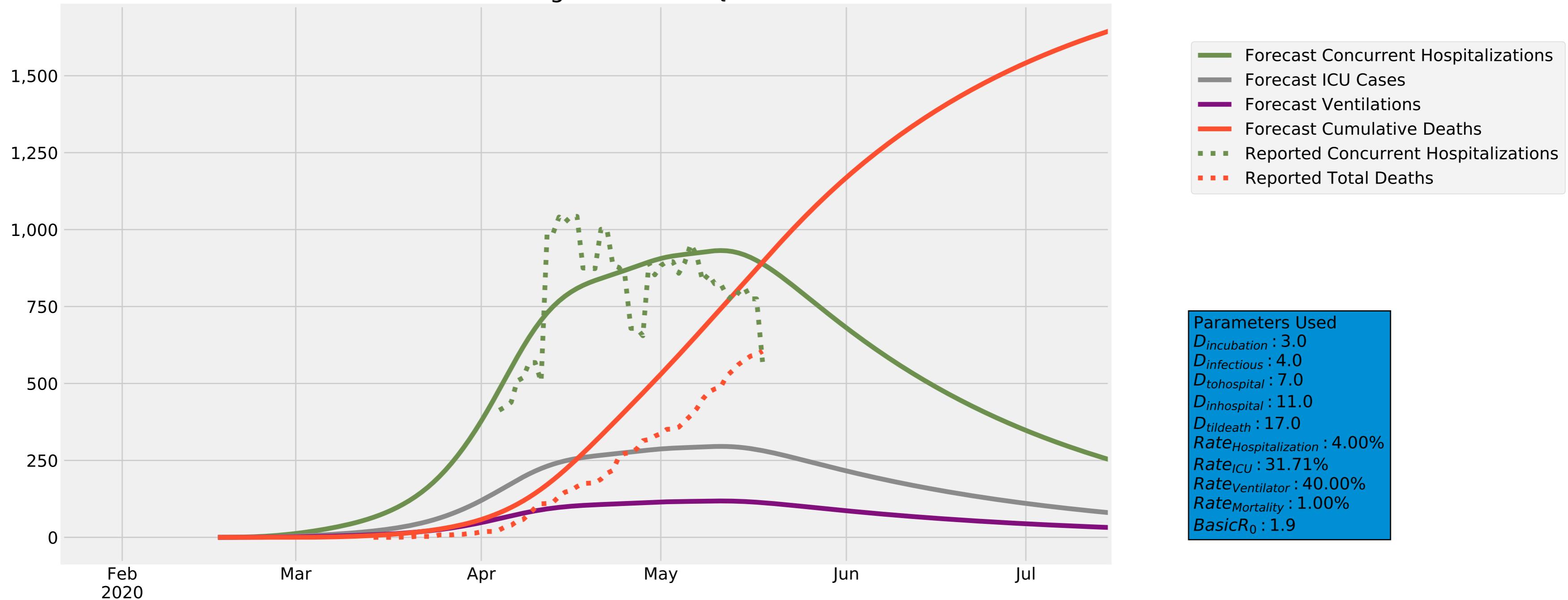
Simultaneous Infections Forecast

Missouri: No Change in Future R_t Scenario



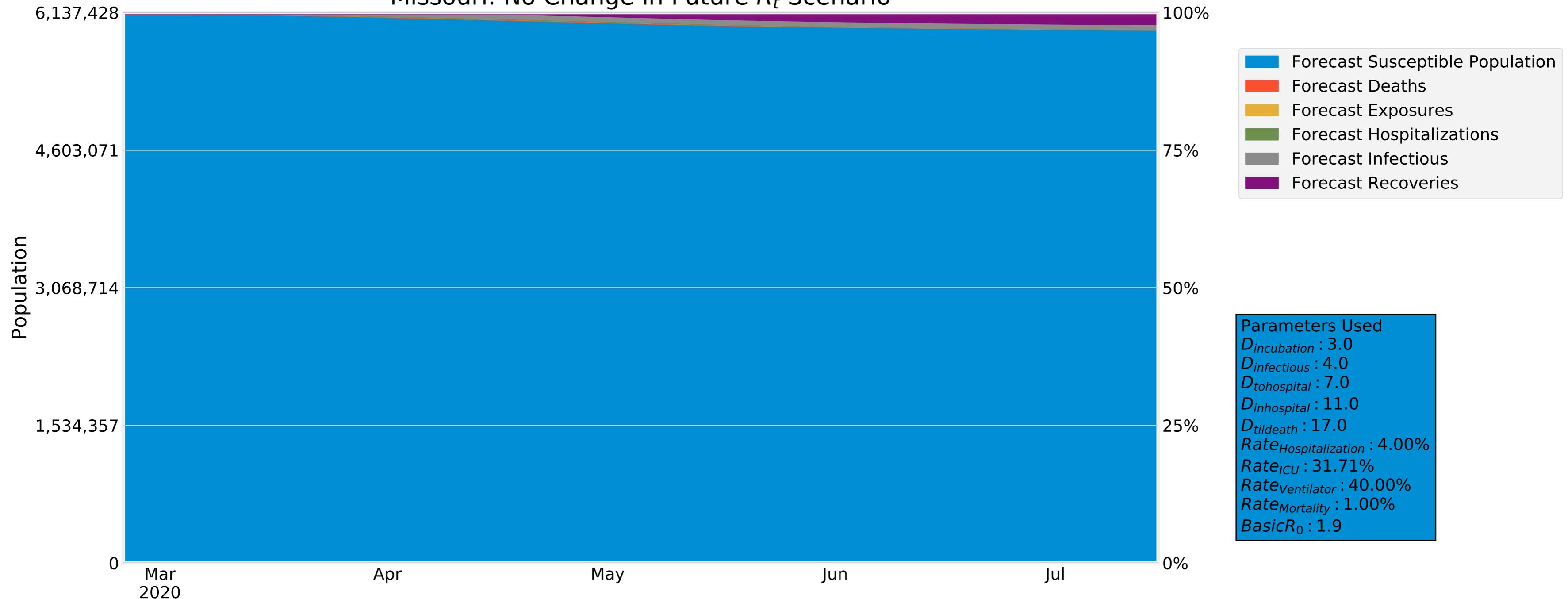
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

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

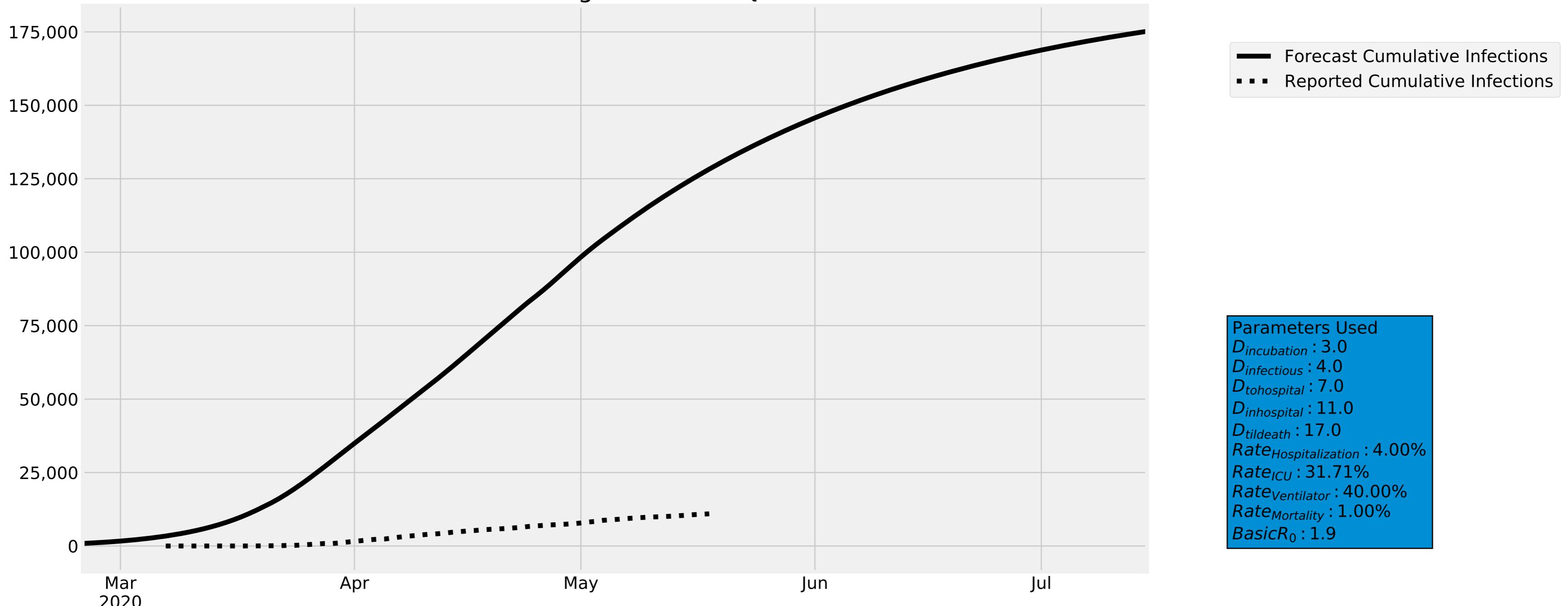


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast Missouri: No Change in Future R_t Scenario



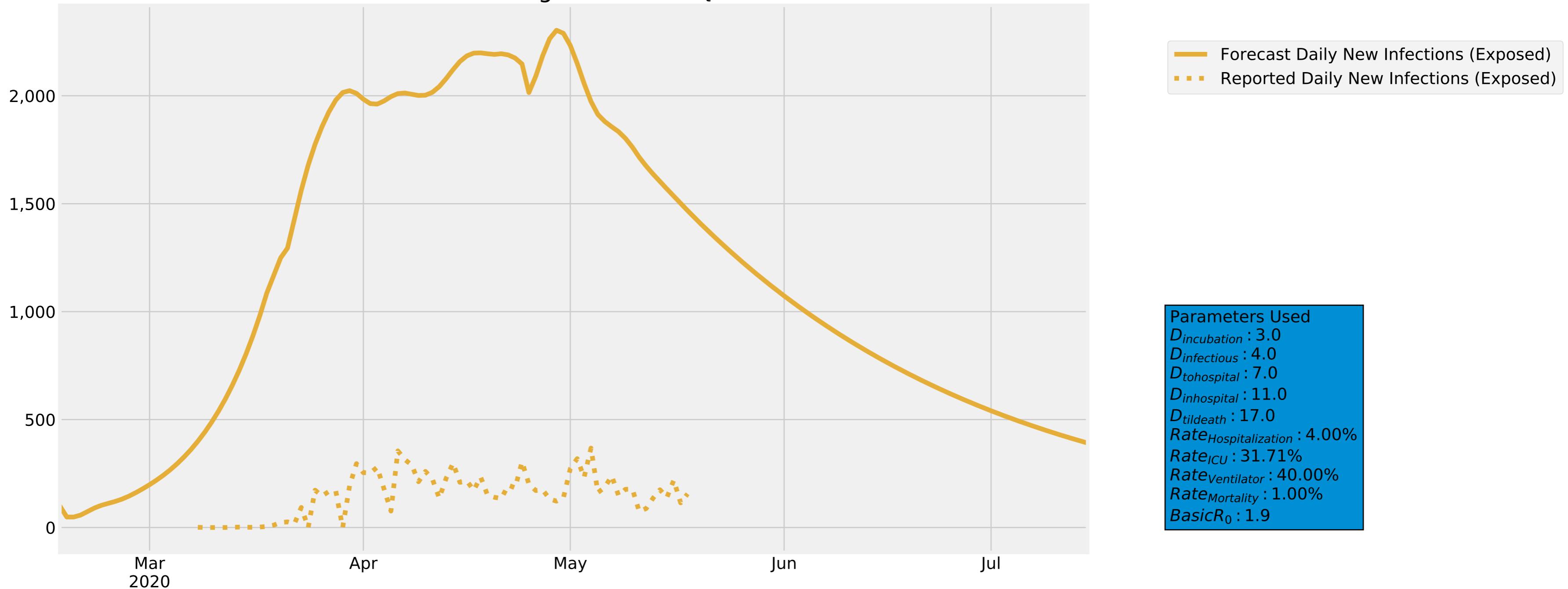
Cumulative Infections Forecast Missouri: No Change in Future R_t Scenario



Parameters Used

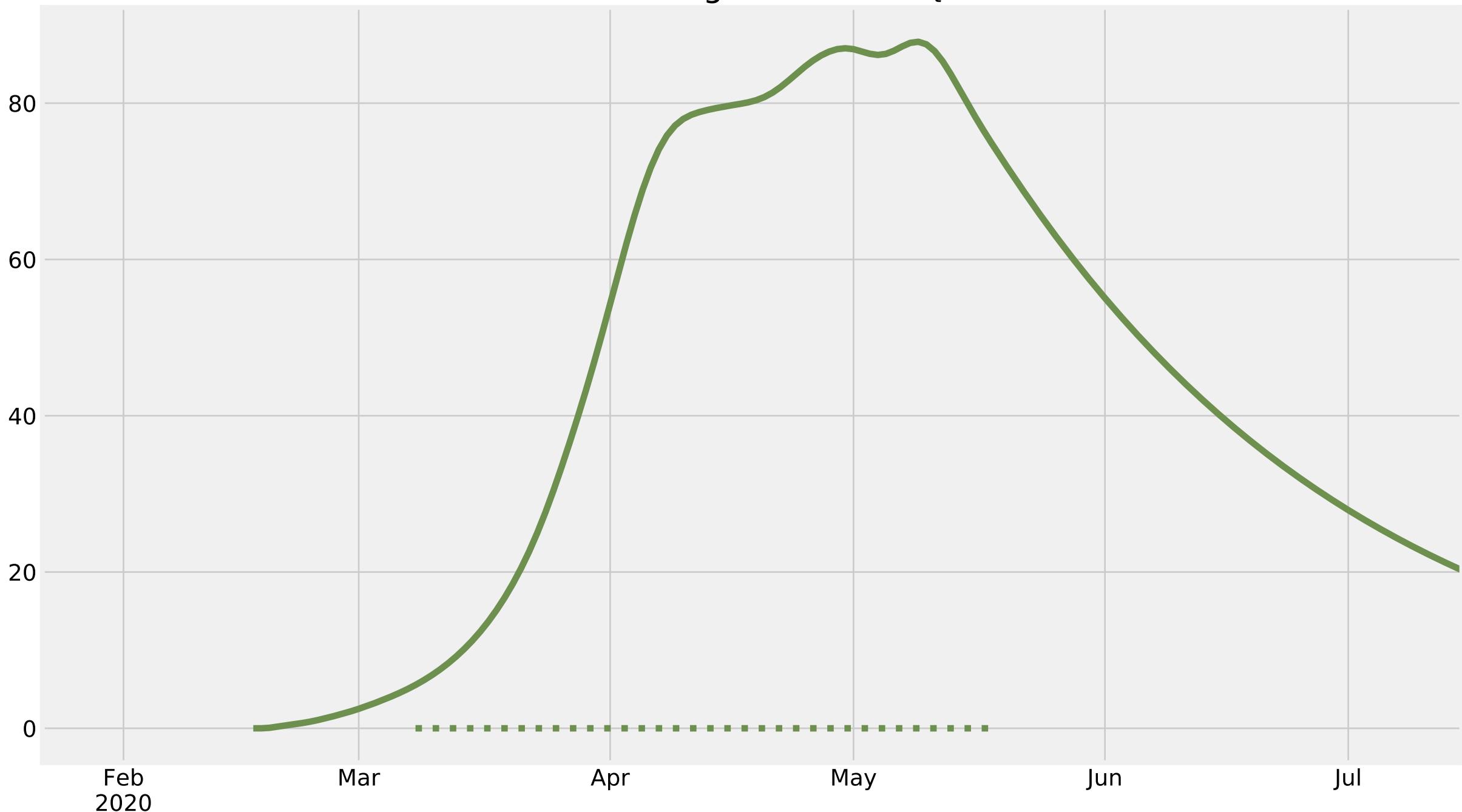
$D_{incubation}$: 3.0
 $D_{infectious}$: 4.0
 $D_{tohospital}$: 7.0
 $D_{inhospital}$: 11.0
 $D_{tildeath}$: 17.0
 $Rate_{Hospitalization}$: 4.00%
 $Rate_{ICU}$: 31.71%
 $Rate_{Ventilator}$: 40.00%
 $Rate_{Mortality}$: 1.00%
 $BasicR_0$: 1.9

Daily Exposures Forecast Missouri: No Change in Future R_t Scenario



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

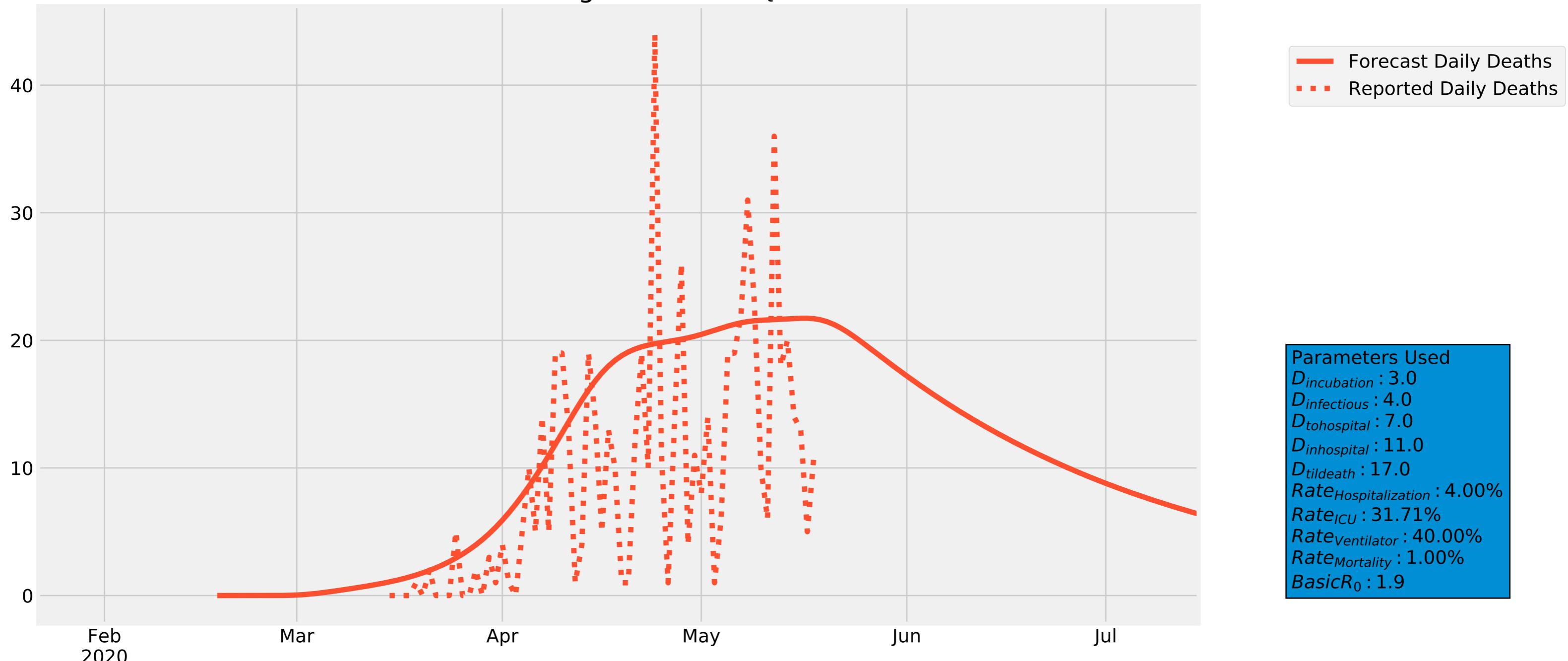
Daily Hospital Admissions Forecast Missouri: No Change in Future R_t Scenario



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%
 $BasicR_0$: 1.9

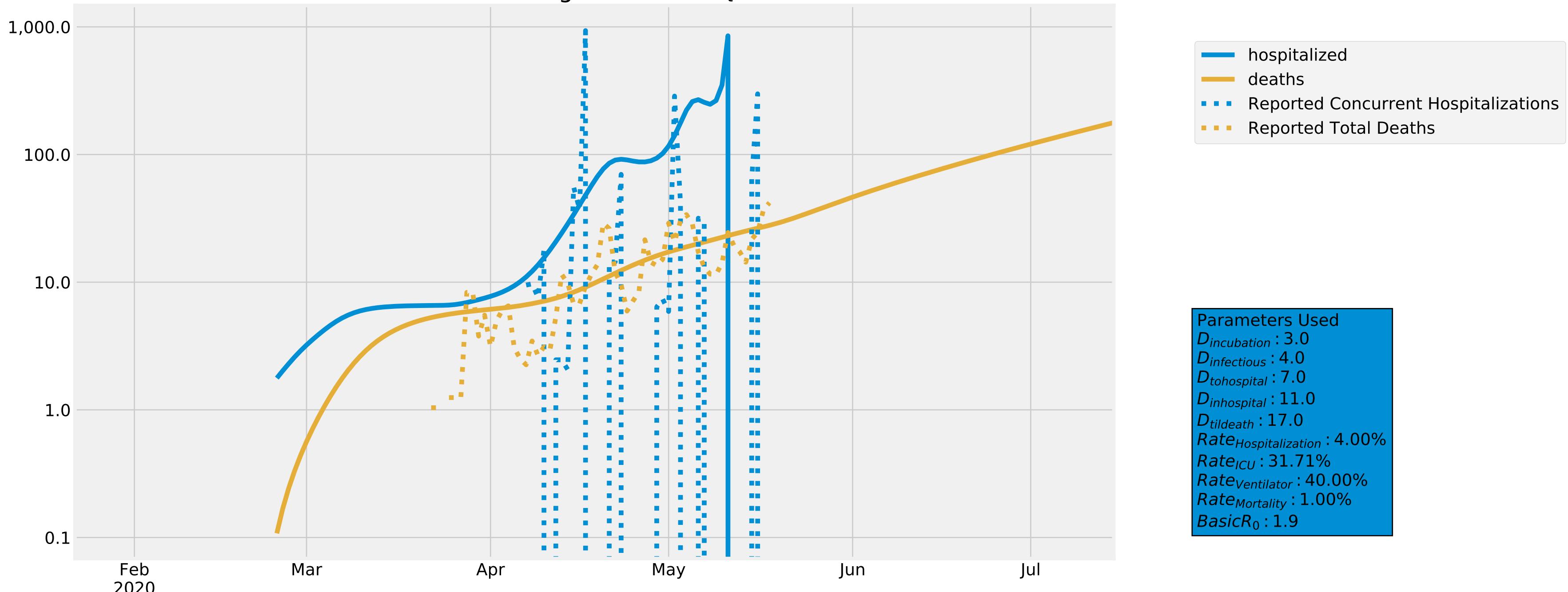
Daily Deaths Forecast Missouri: No Change in Future R_t Scenario



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

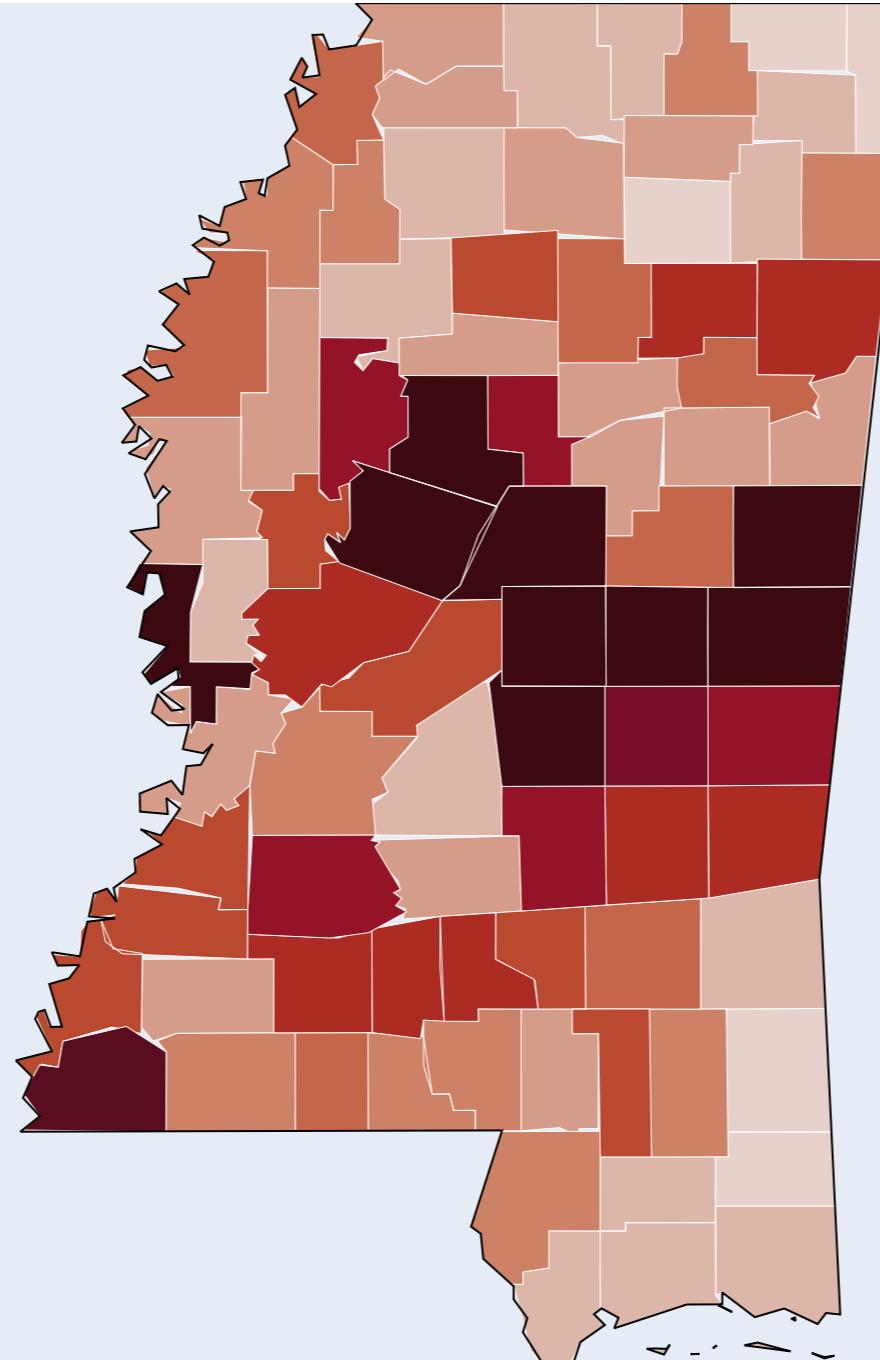
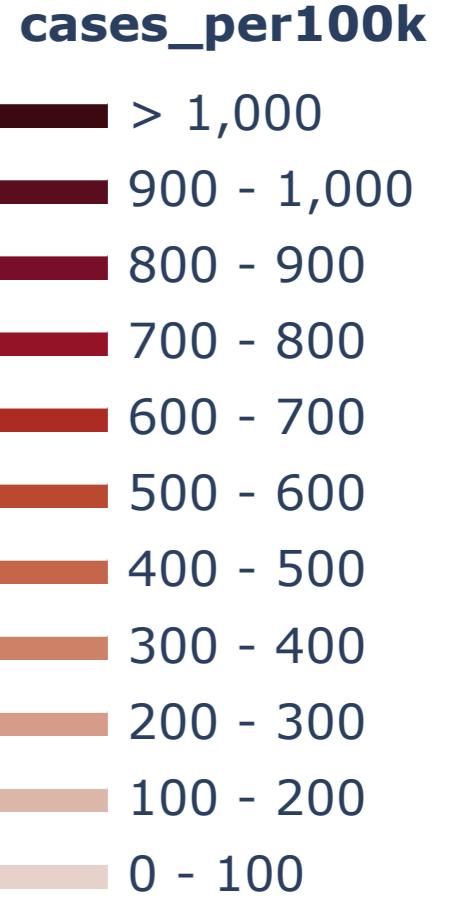
Doubling Rate Forecast

Missouri: No Change in Future R_t Scenario

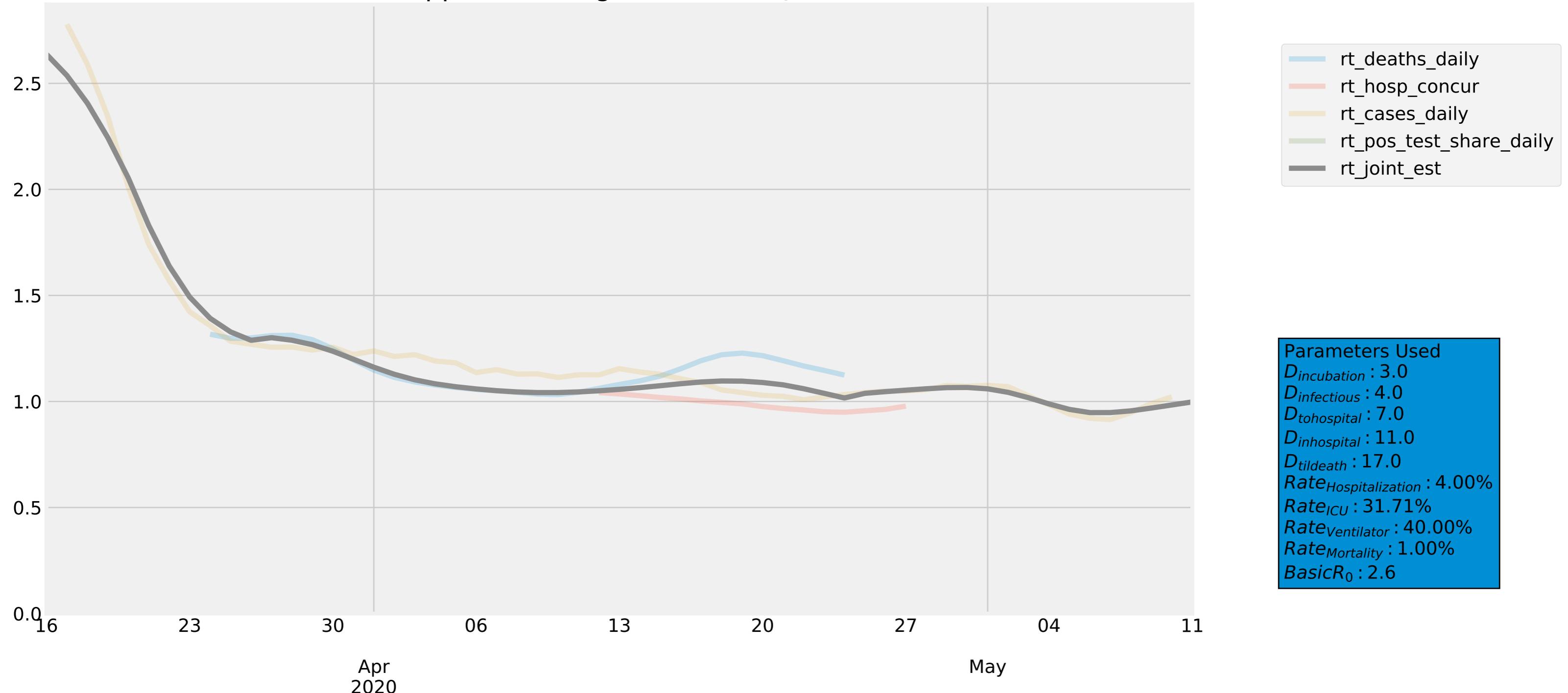


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Mississippi: COVID-19 Cases Per 100k Residents



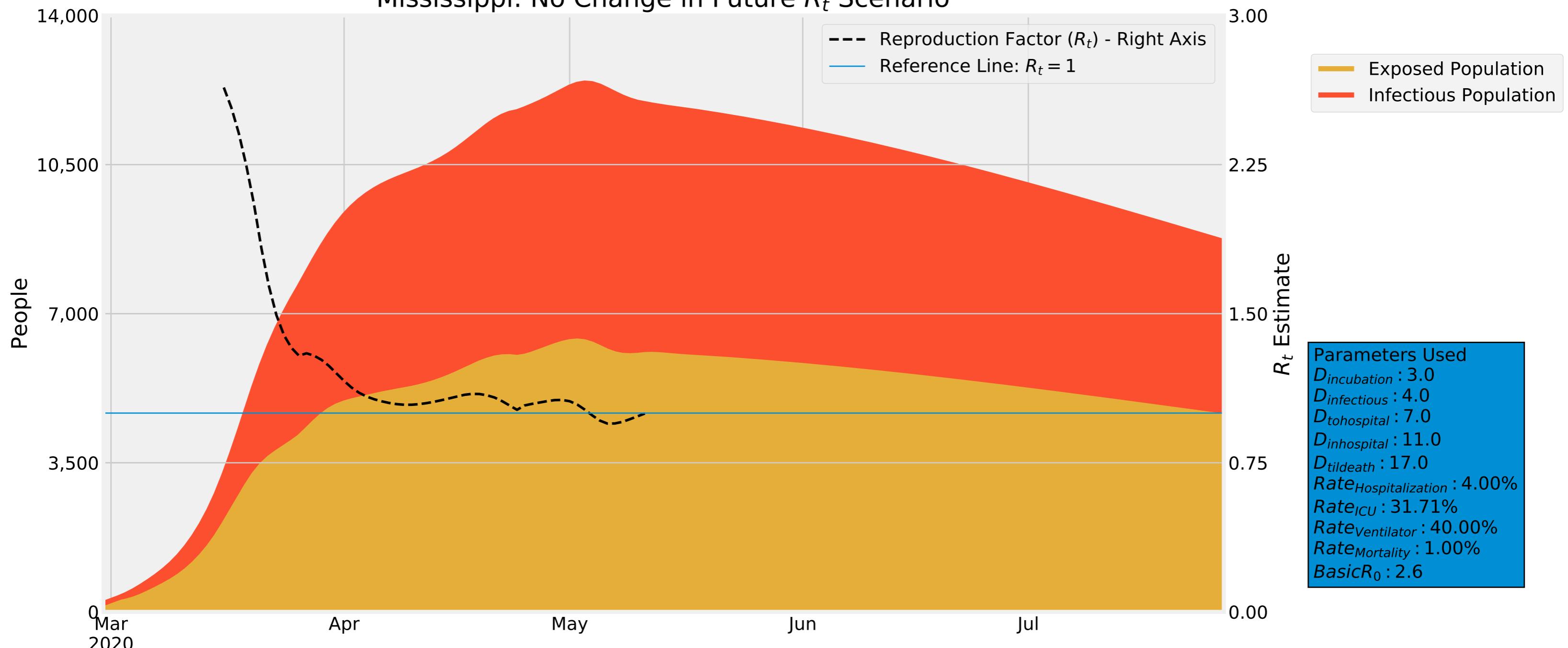
Reproduction Rate (R_t) Estimates Mississippi: No Change in Future R_t Scenario



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

Simultaneous Infections Forecast

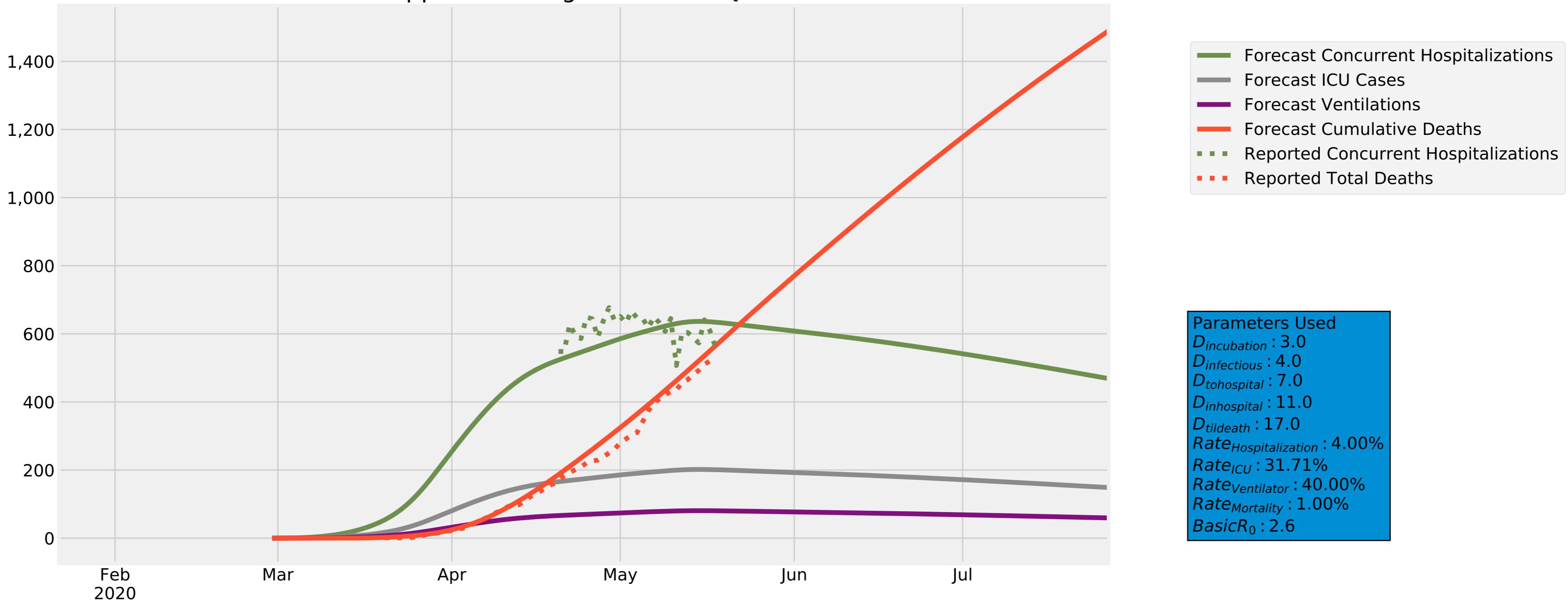
Mississippi: No Change in Future R_t Scenario



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

Hospitalization and Deaths Forecast

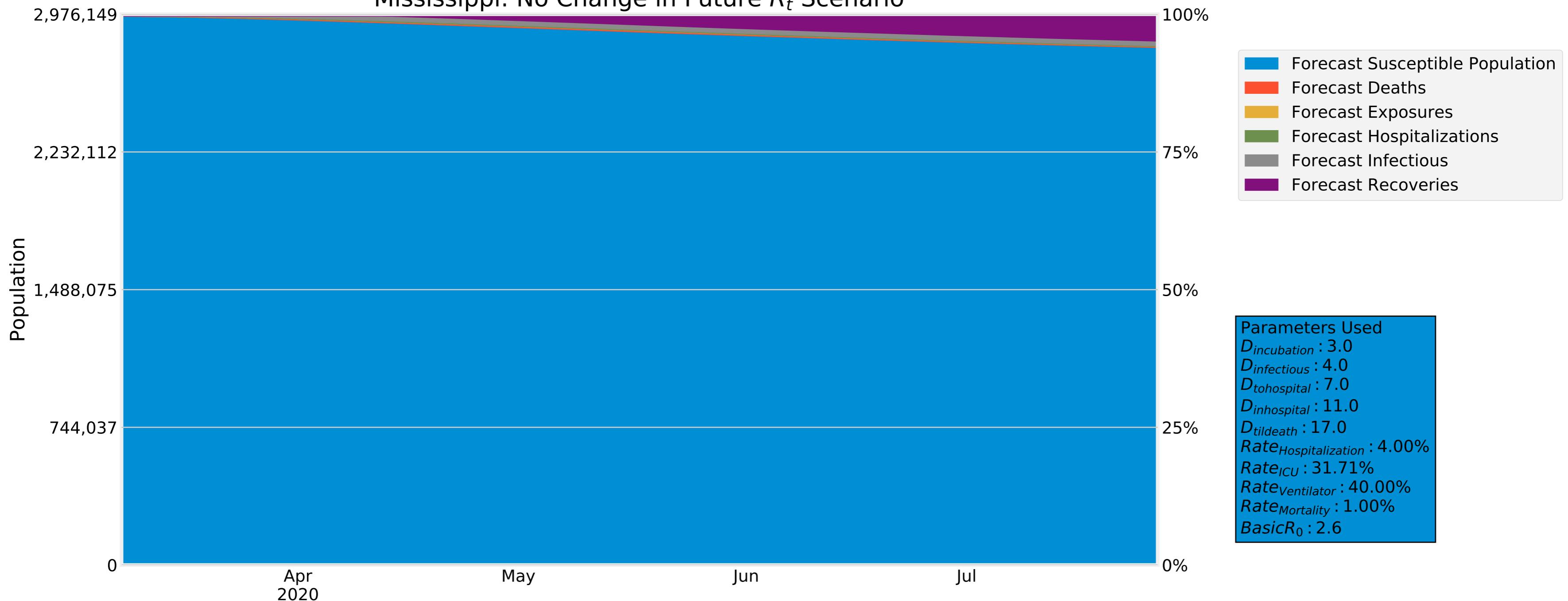
Mississippi: No Change in Future R_t Scenario



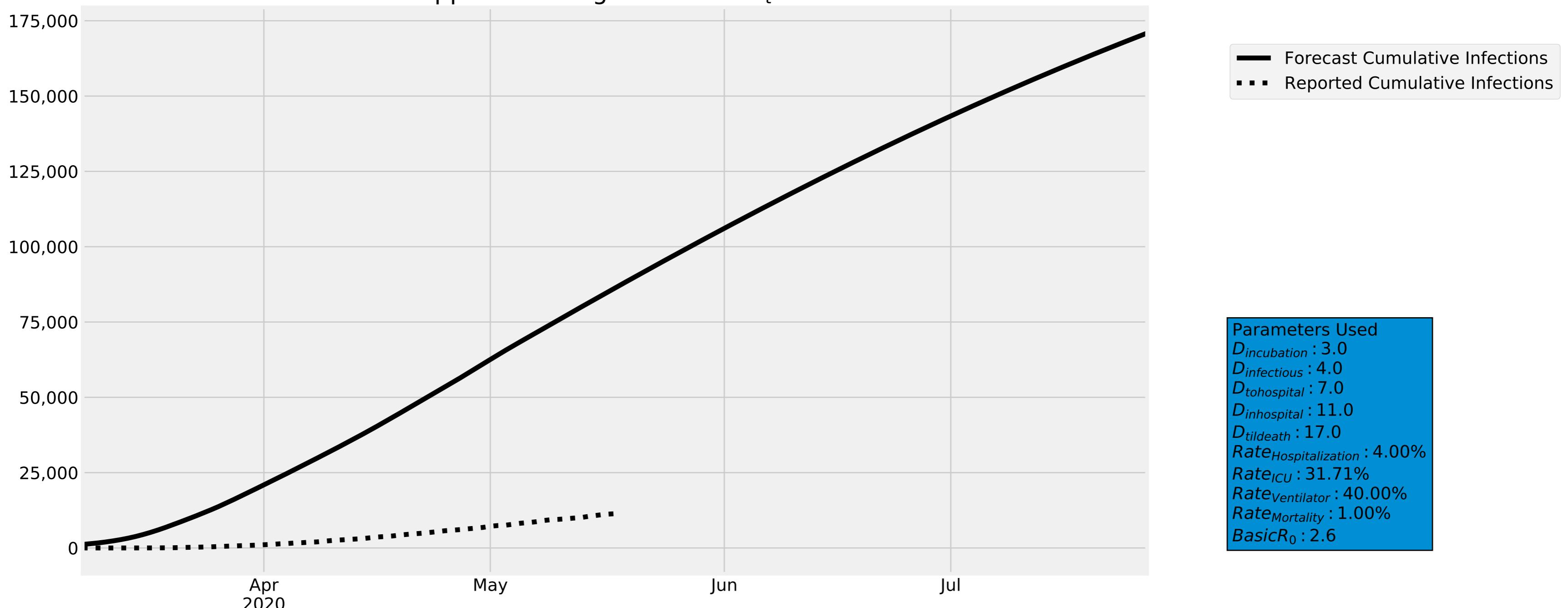
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

Mississippi: No Change in Future R_t Scenario



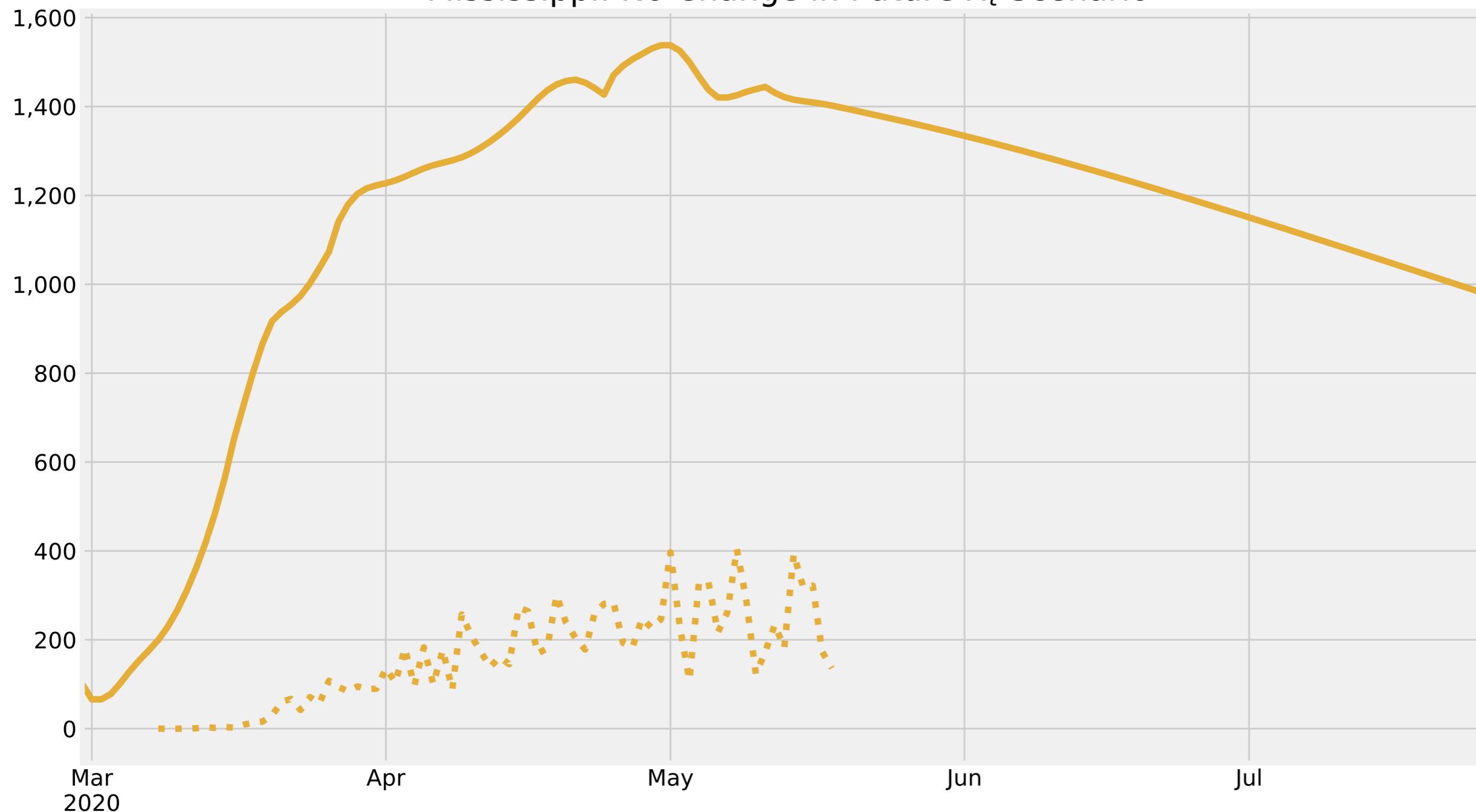
Cumulative Infections Forecast Mississippi: No Change in Future R_t Scenario



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

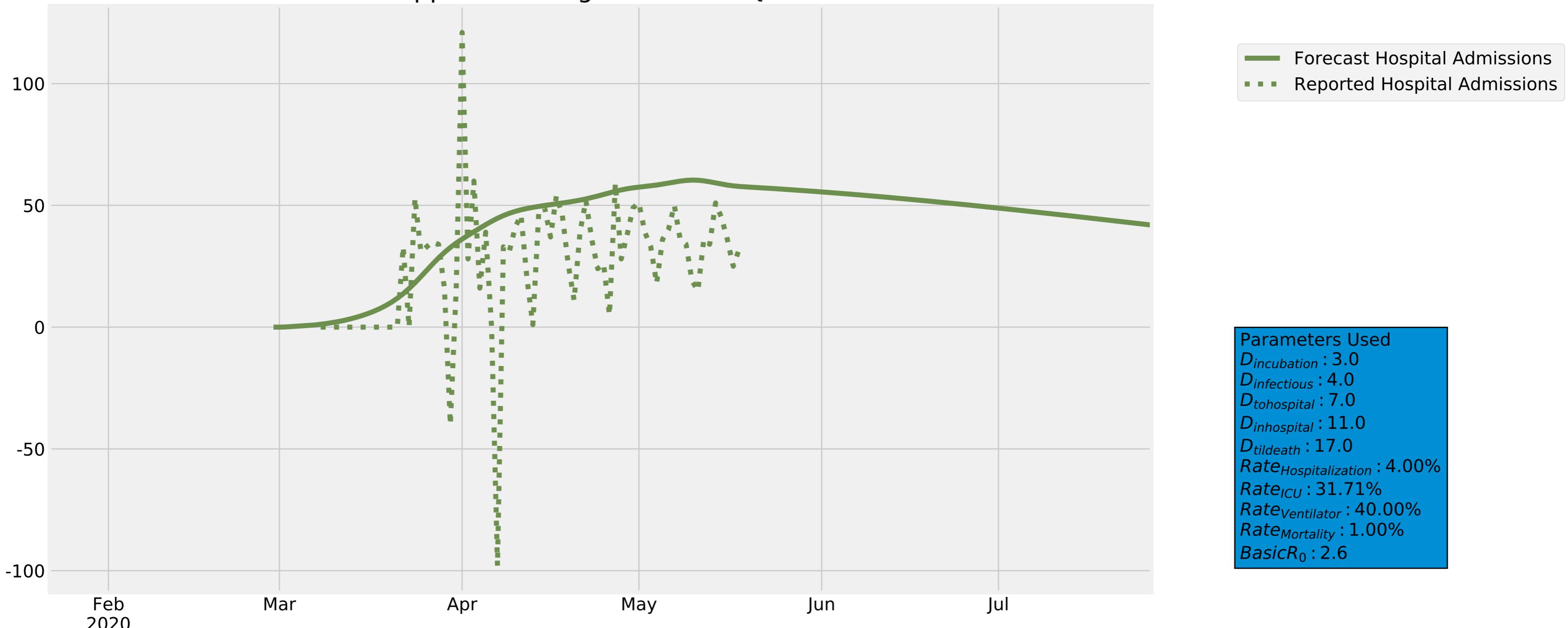
Daily Exposures Forecast Mississippi: No Change in Future R_t Scenario



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%
Basic R_0 :	2.6

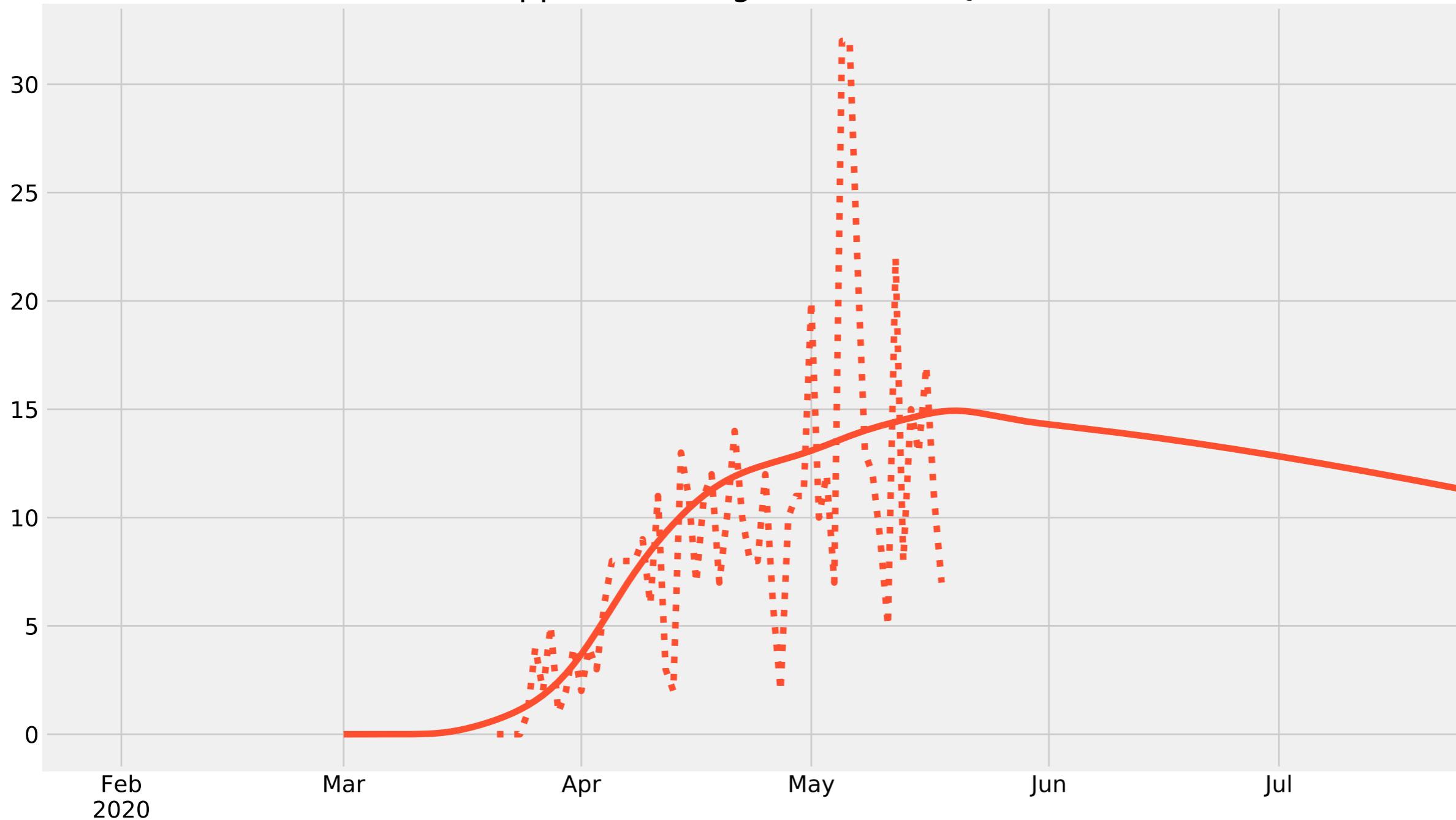
Daily Hospital Admissions Forecast Mississippi: No Change in Future R_t Scenario



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

Daily Deaths Forecast

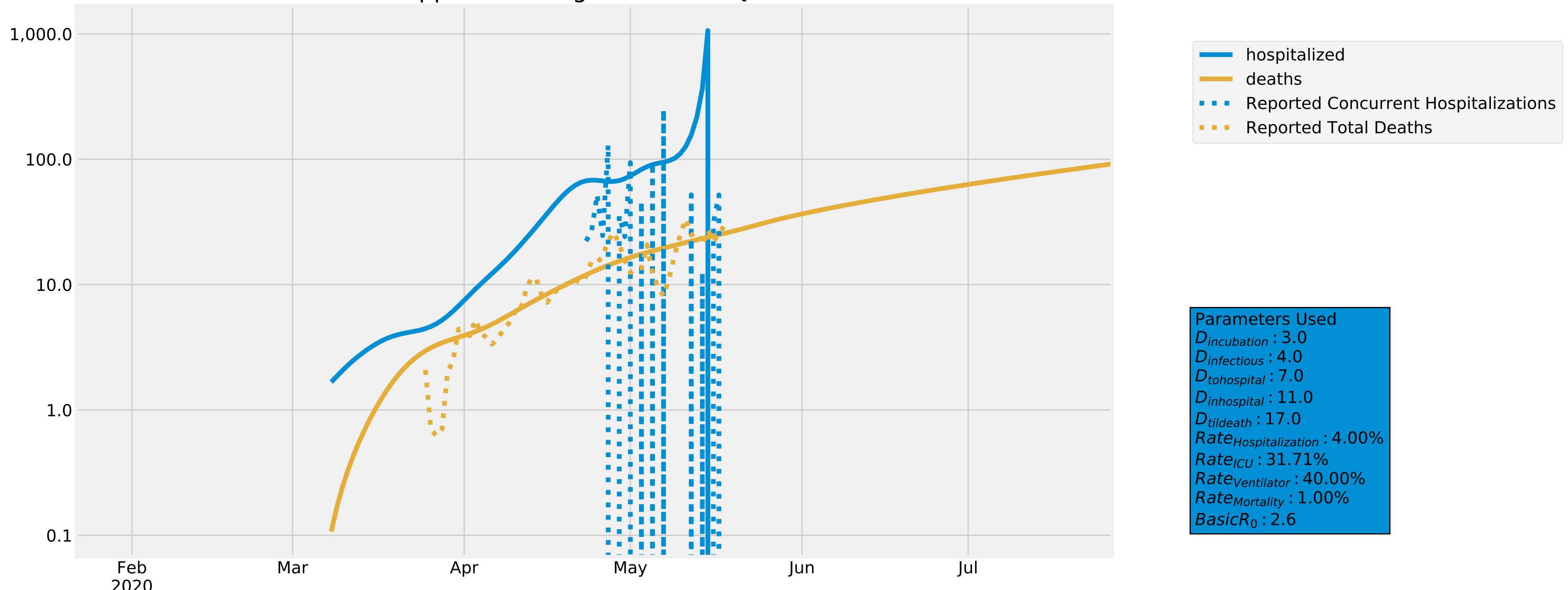
Mississippi: No Change in Future R_t Scenario



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%
Basic R_0 :	2.6

Doubling Rate Forecast Mississippi: No Change in Future R_t Scenario

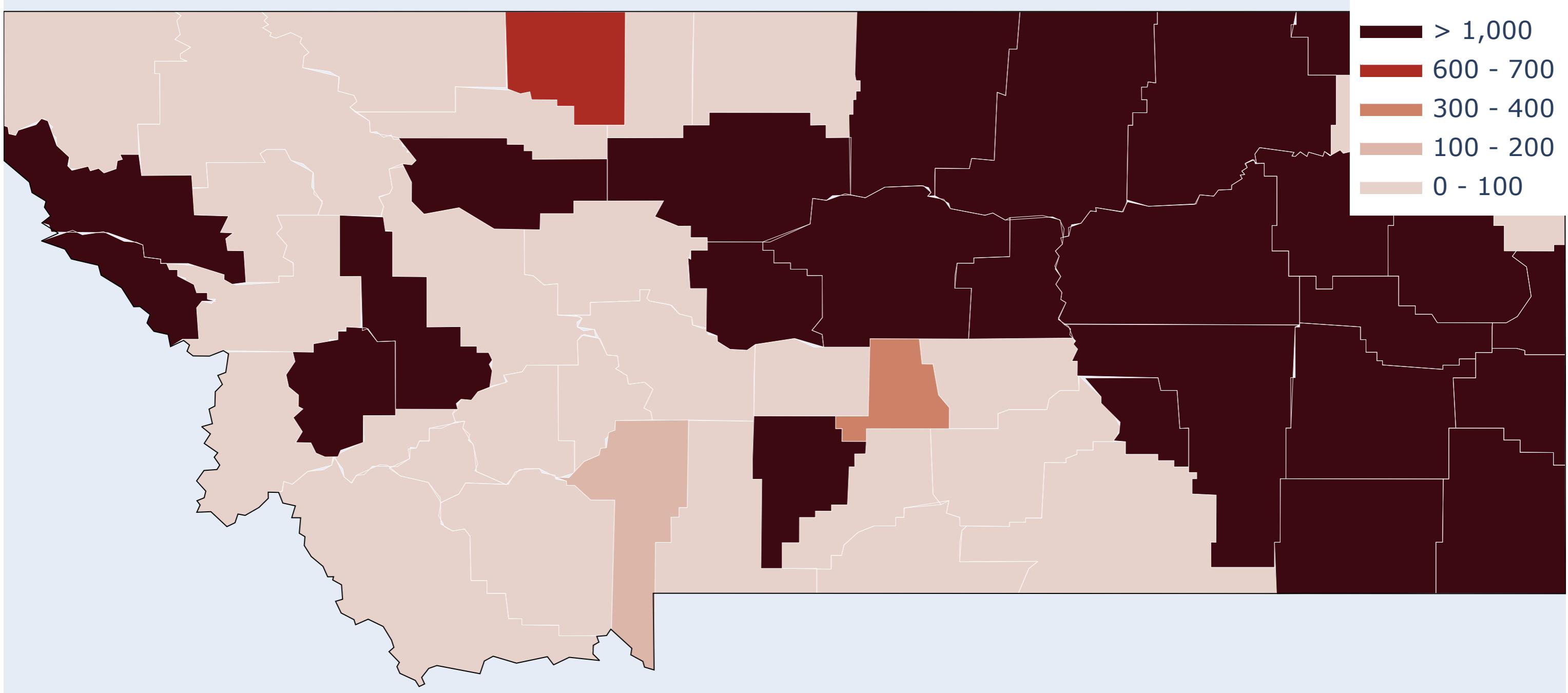


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Montana: COVID-19 Cases Per 100k Residents

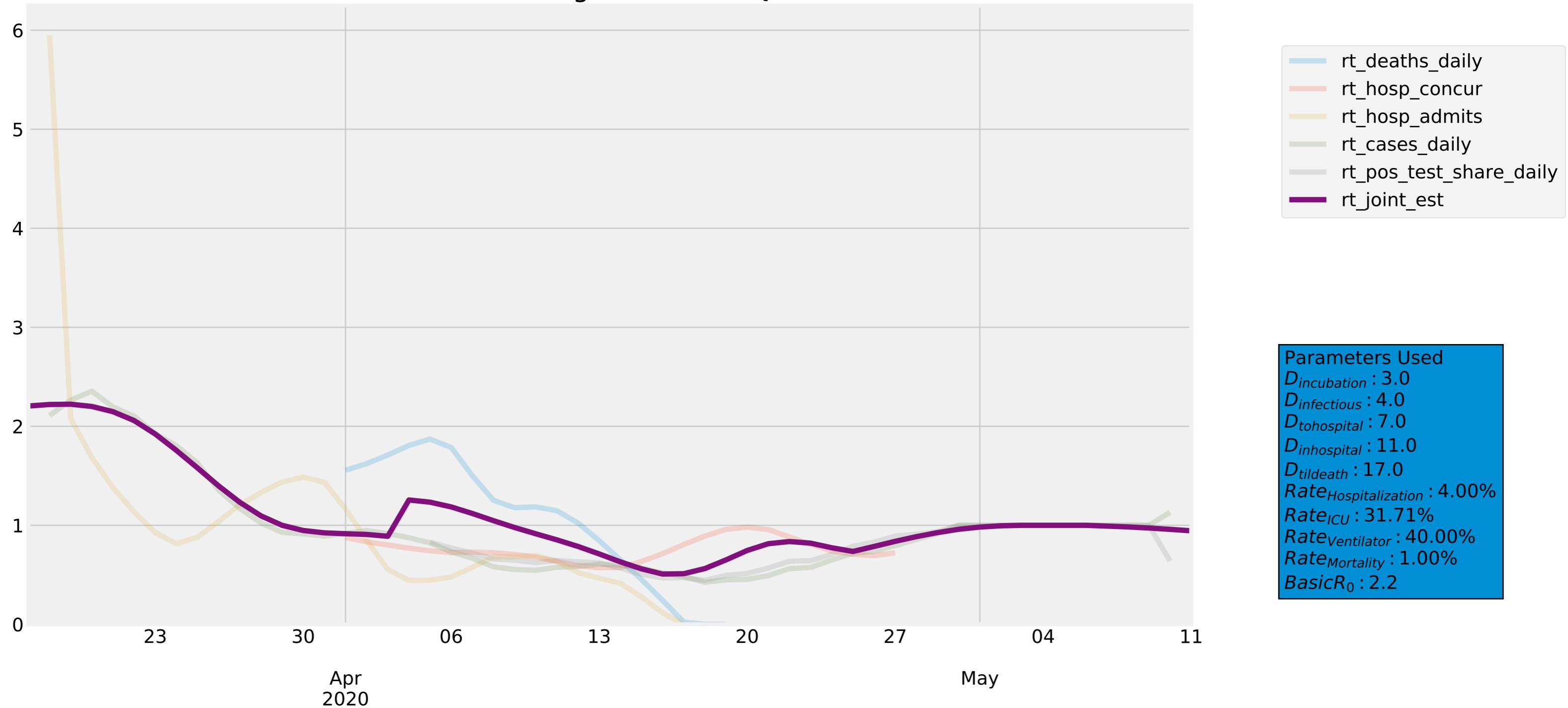
cases_per100k

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



Reproduction Rate (R_t) Estimates

Montana: No Change in Future R_t Scenario

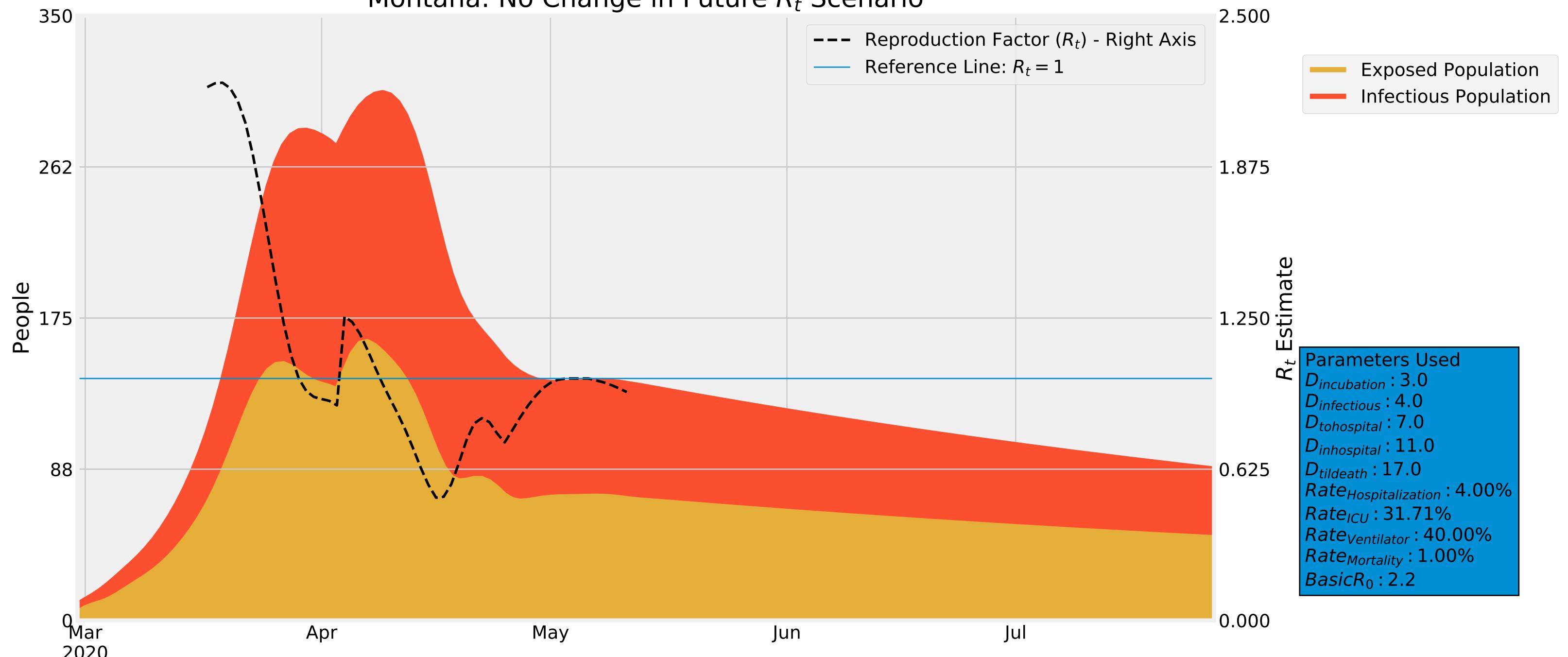


Parameters Used

$D_{incubation}$: 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%
 $BasicR_0$: 2.2

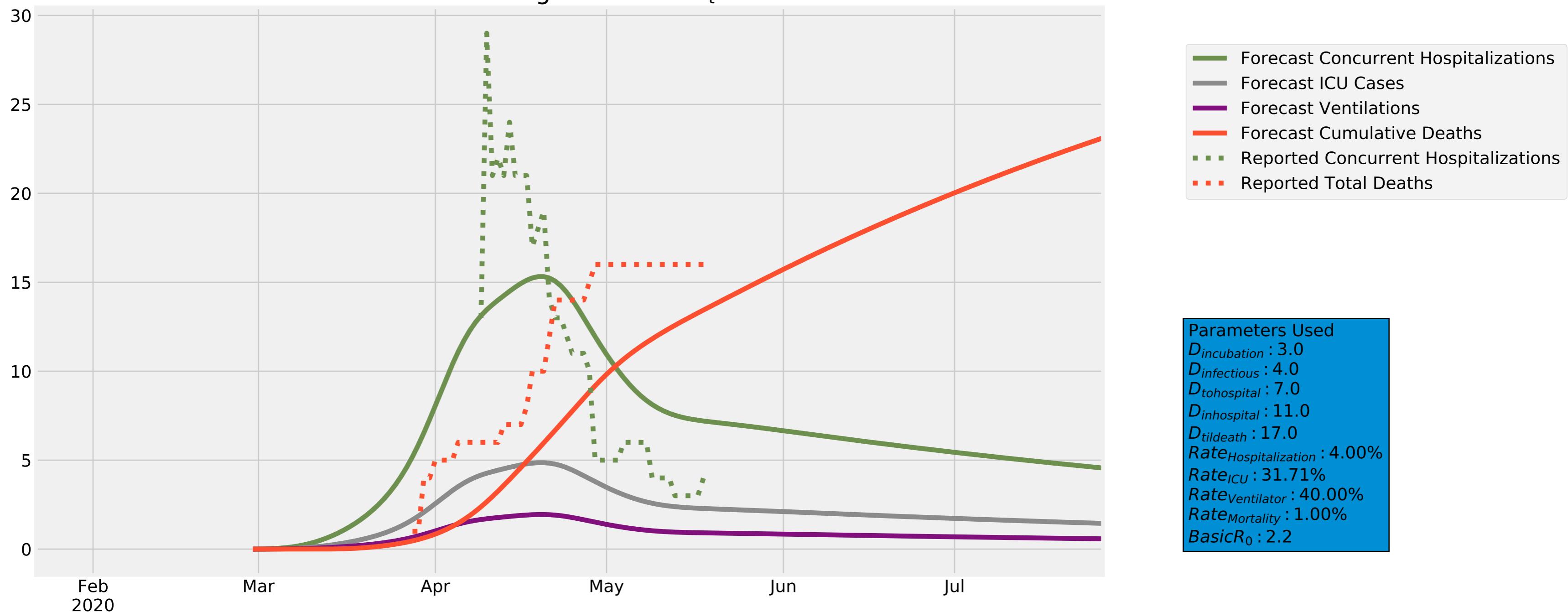
Simultaneous Infections Forecast

Montana: No Change in Future R_t Scenario



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

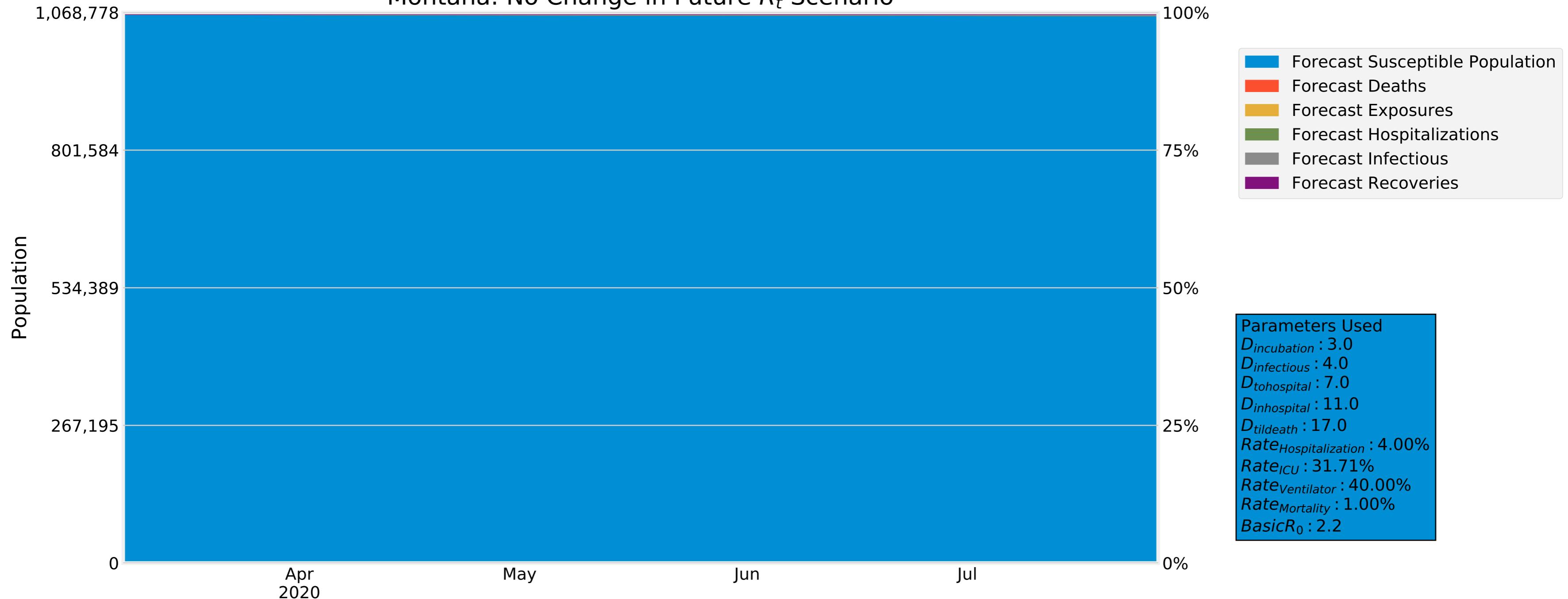
Hospitalization and Deaths Forecast Montana: No Change in Future R_t Scenario



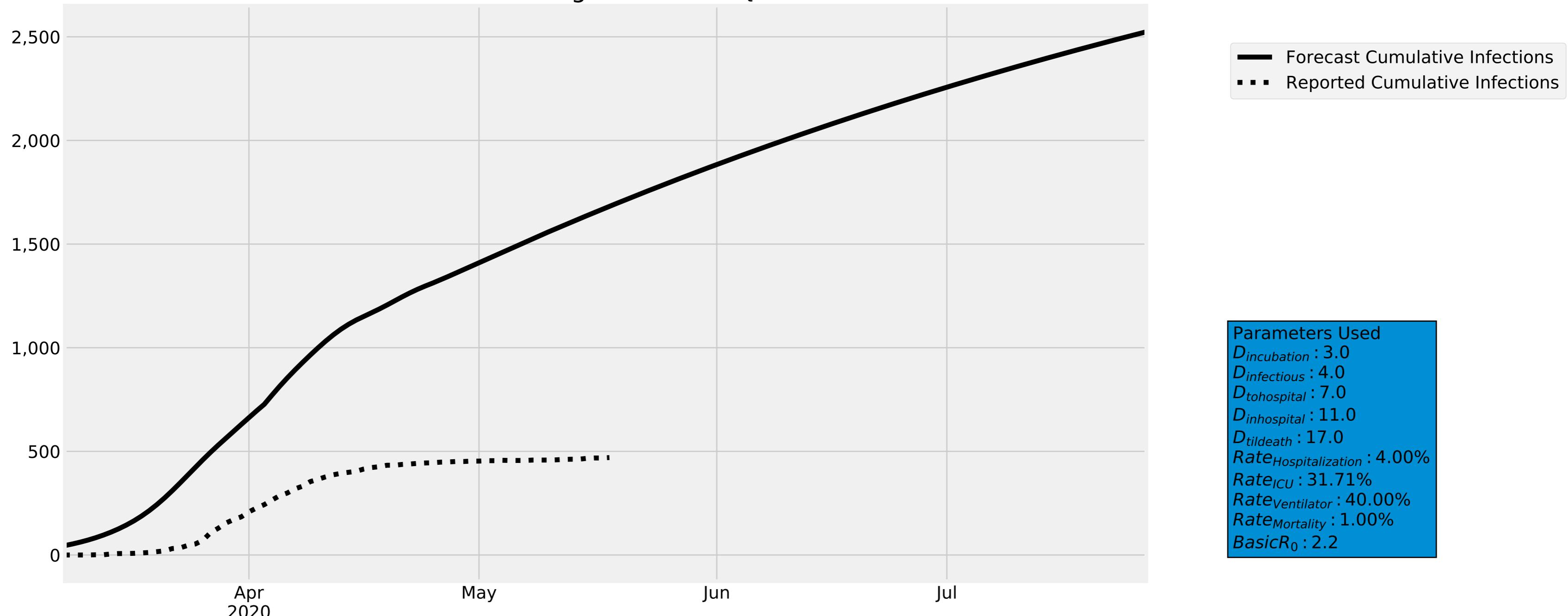
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

Montana: No Change in Future R_t Scenario



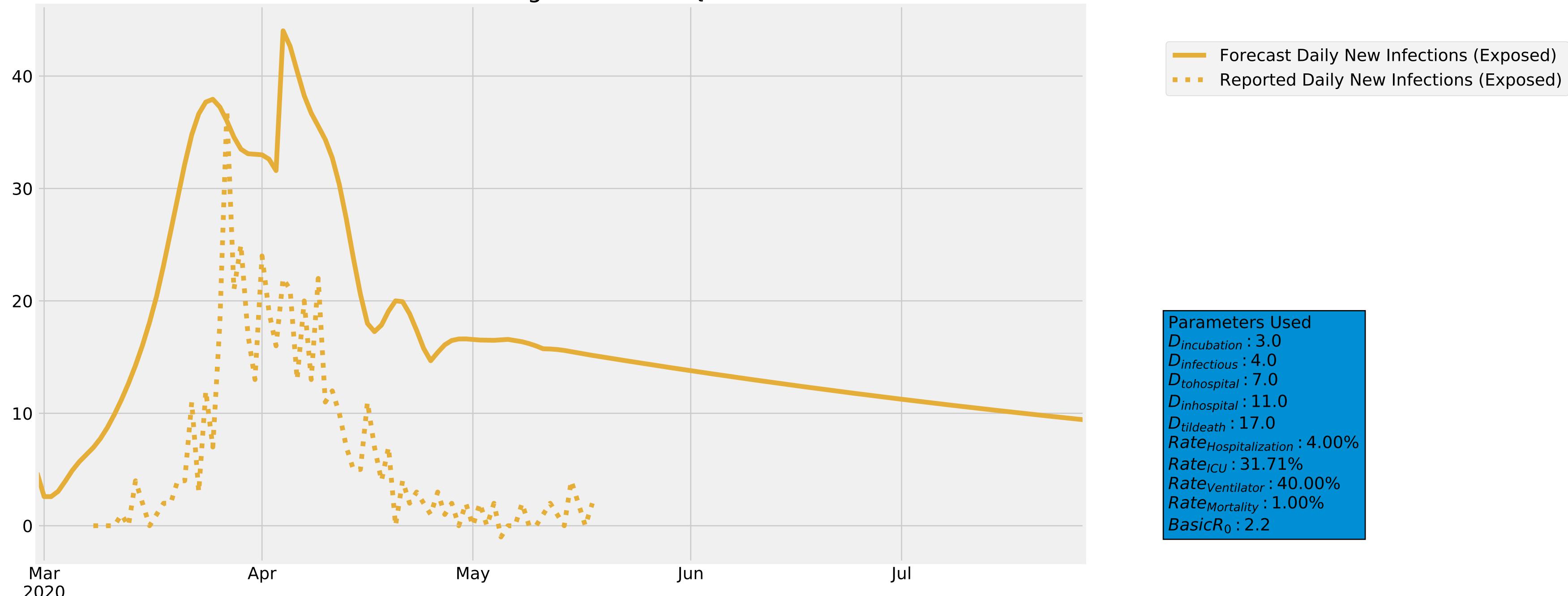
Cumulative Infections Forecast Montana: No Change in Future R_t Scenario



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

Daily Exposures Forecast

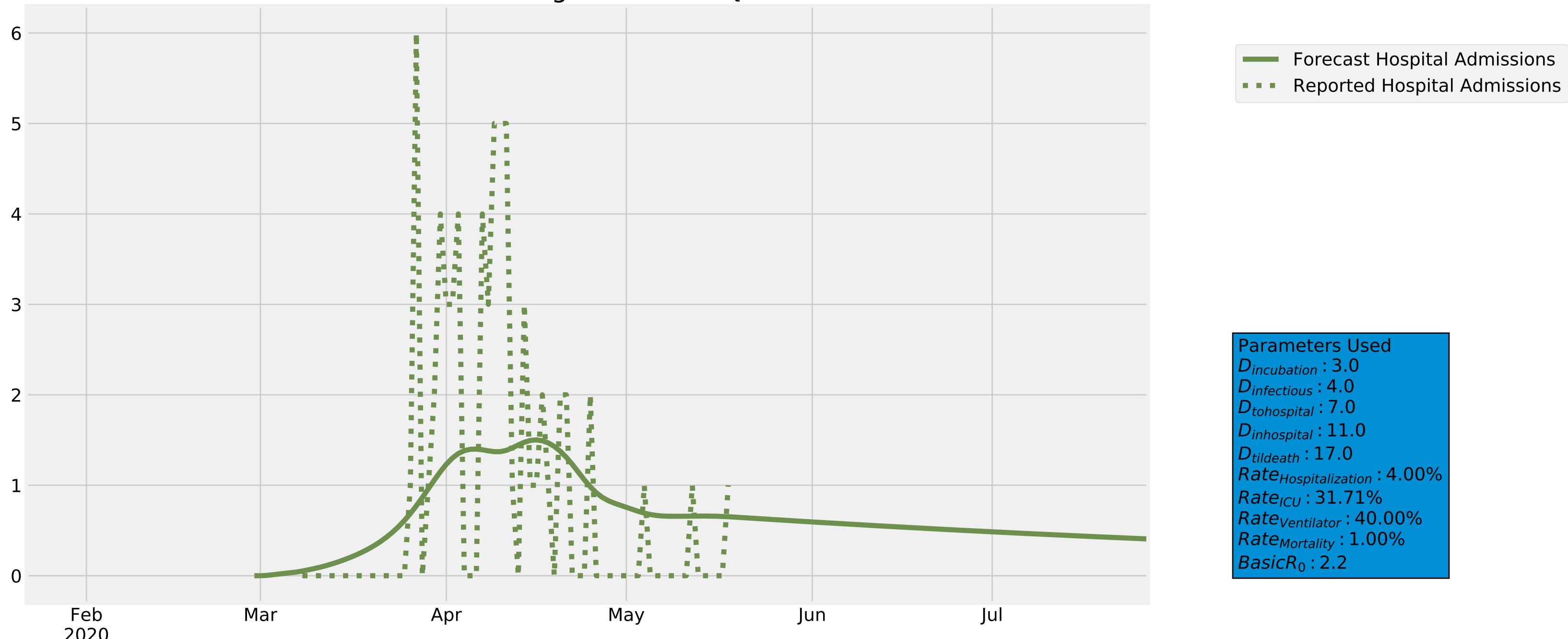
Montana: No Change in Future R_t Scenario



Parameters Used

- $D_{incubation} : 3.0$
- $D_{infectious} : 4.0$
- $D_{tohospital} : 7.0$
- $D_{inhospital} : 11.0$
- $D_{tildeath} : 17.0$
- $Rate_{Hospitalization} : 4.00\%$
- $Rate_{ICU} : 31.71\%$
- $Rate_{Ventilator} : 40.00\%$
- $Rate_{Mortality} : 1.00\%$
- $BasicR_0 : 2.2$

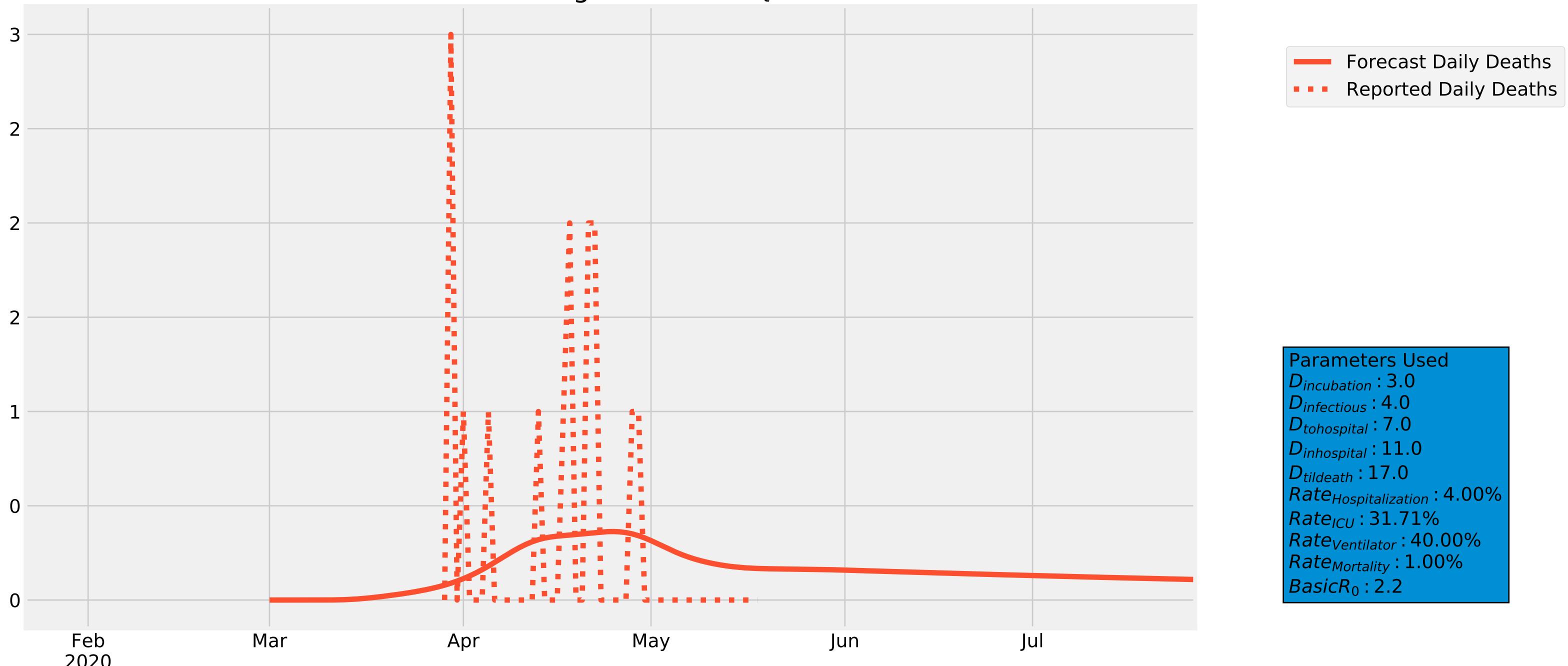
Daily Hospital Admissions Forecast Montana: No Change in Future R_t Scenario



Parameters Used

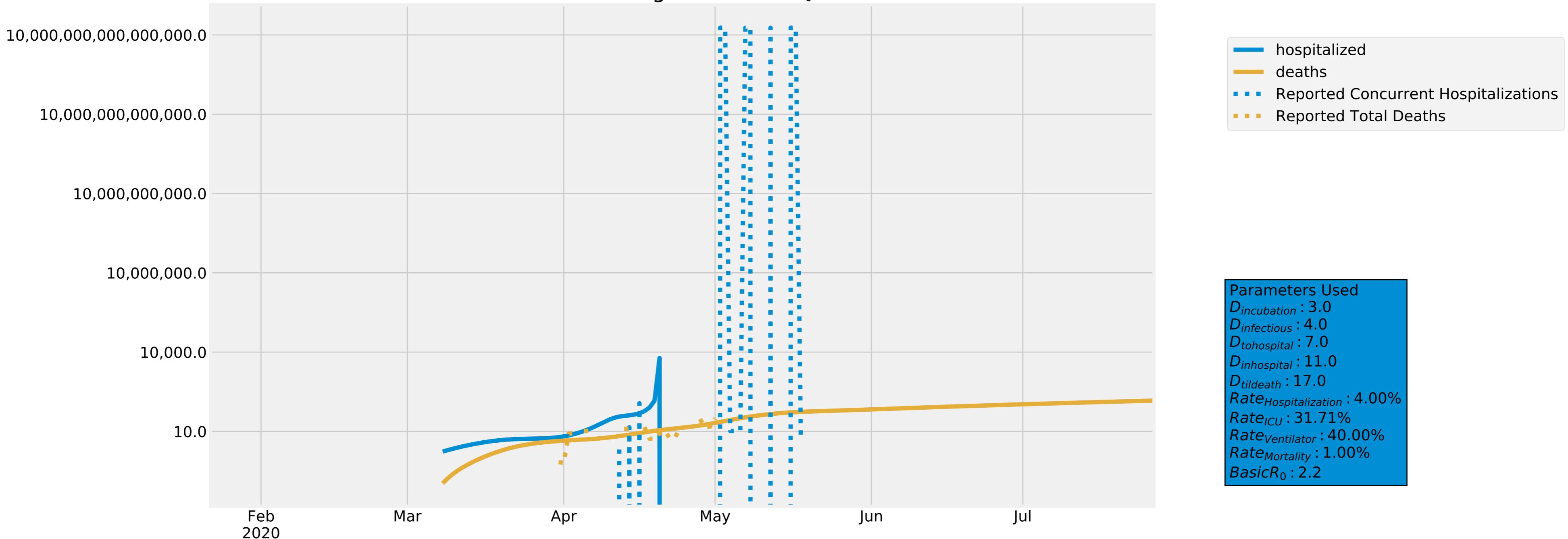
- $D_{incubation}$: 3.0
- $D_{infectious}$: 4.0
- $D_{tohospital}$: 7.0
- $D_{inhospital}$: 11.0
- $D_{tildeath}$: 17.0
- $Rate_{Hospitalization}$: 4.00%
- $Rate_{ICU}$: 31.71%
- $Rate_{Ventilator}$: 40.00%
- $Rate_{Mortality}$: 1.00%
- $BasicR_0$: 2.2

Daily Deaths Forecast Montana: No Change in Future R_t Scenario



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

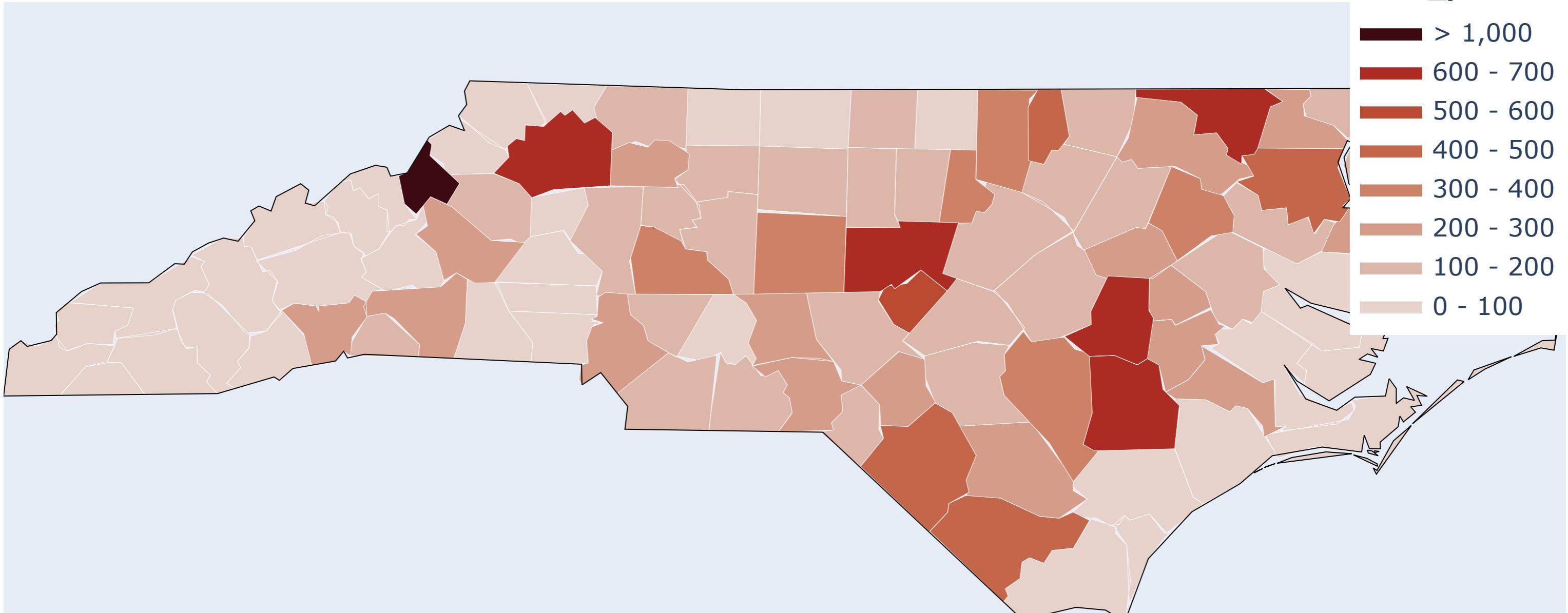
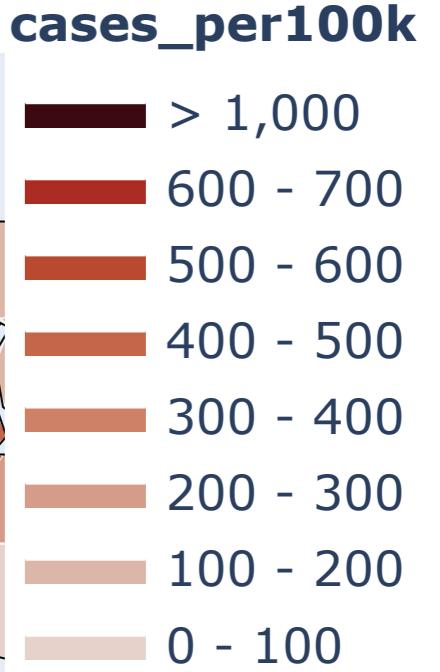
Doubling Rate Forecast Montana: No Change in Future R_t Scenario



Parameters Used

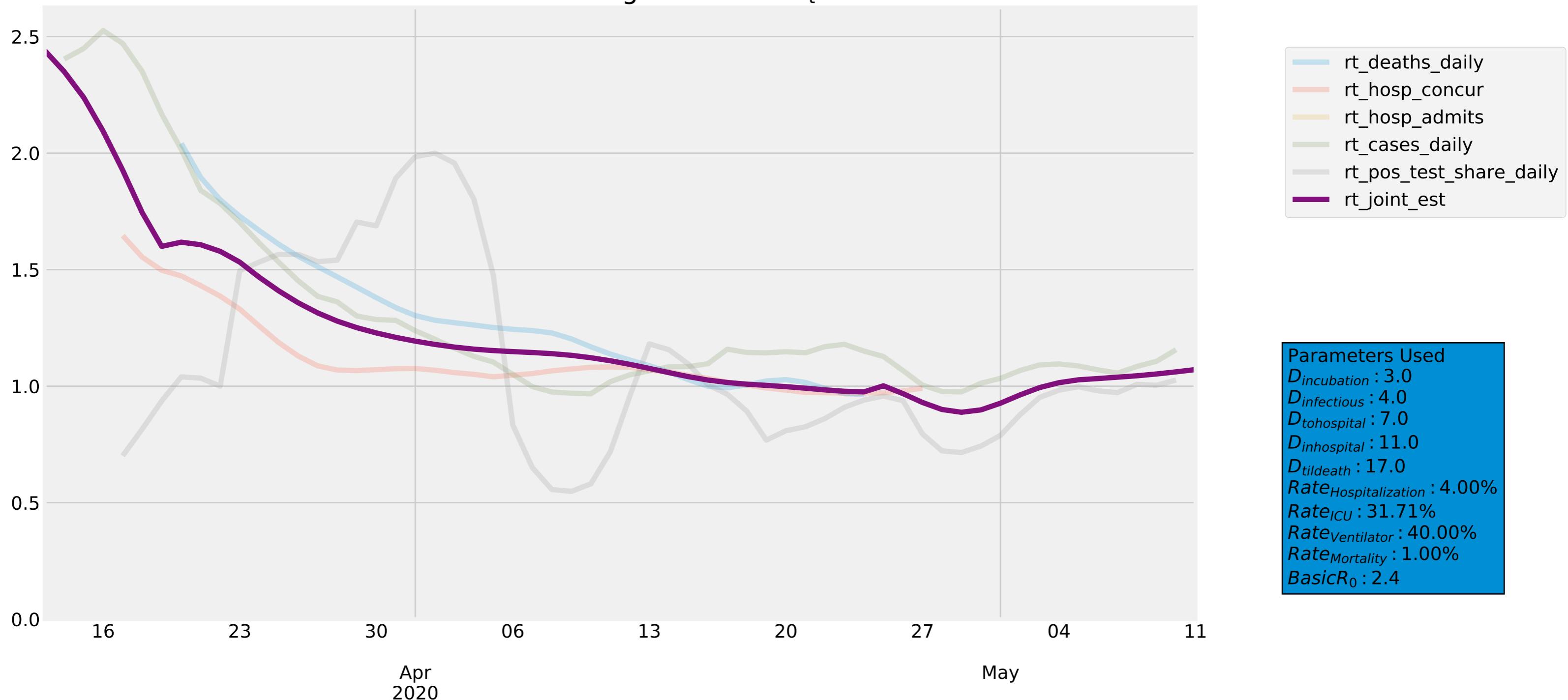
$D_{incubation}$: 3.0
 $D_{infectious}$: 4.0
 $D_{tohospital}$: 7.0
 $D_{inhospital}$: 11.0
 $D_{tildeath}$: 17.0
 $Rate_{Hospitalization}$: 4.00%
 $Rate_{ICU}$: 31.71%
 $Rate_{Ventilator}$: 40.00%
 $Rate_{Mortality}$: 1.00%
 $BasicR_0$: 2.2

North Carolina: COVID-19 Cases Per 100k Residents



Reproduction Rate (R_t) Estimates

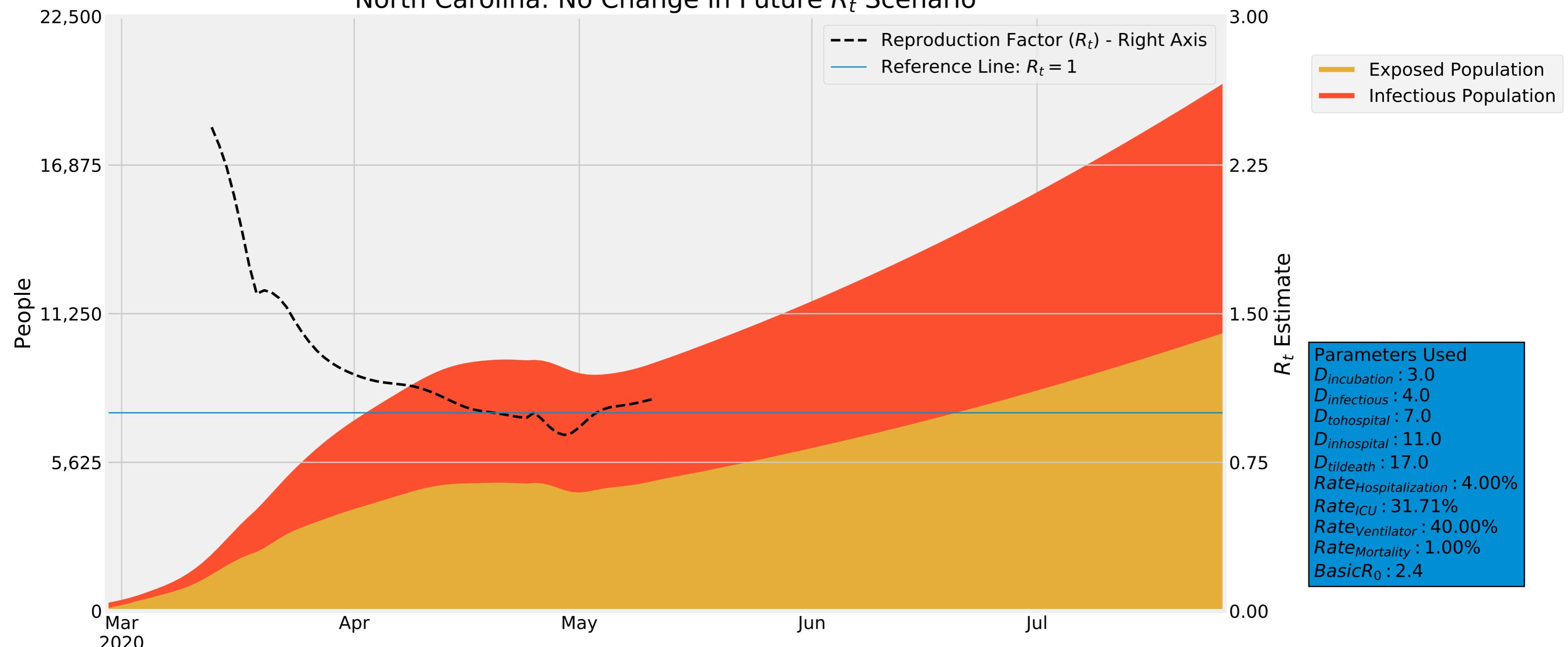
North Carolina: No Change in Future R_t Scenario



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

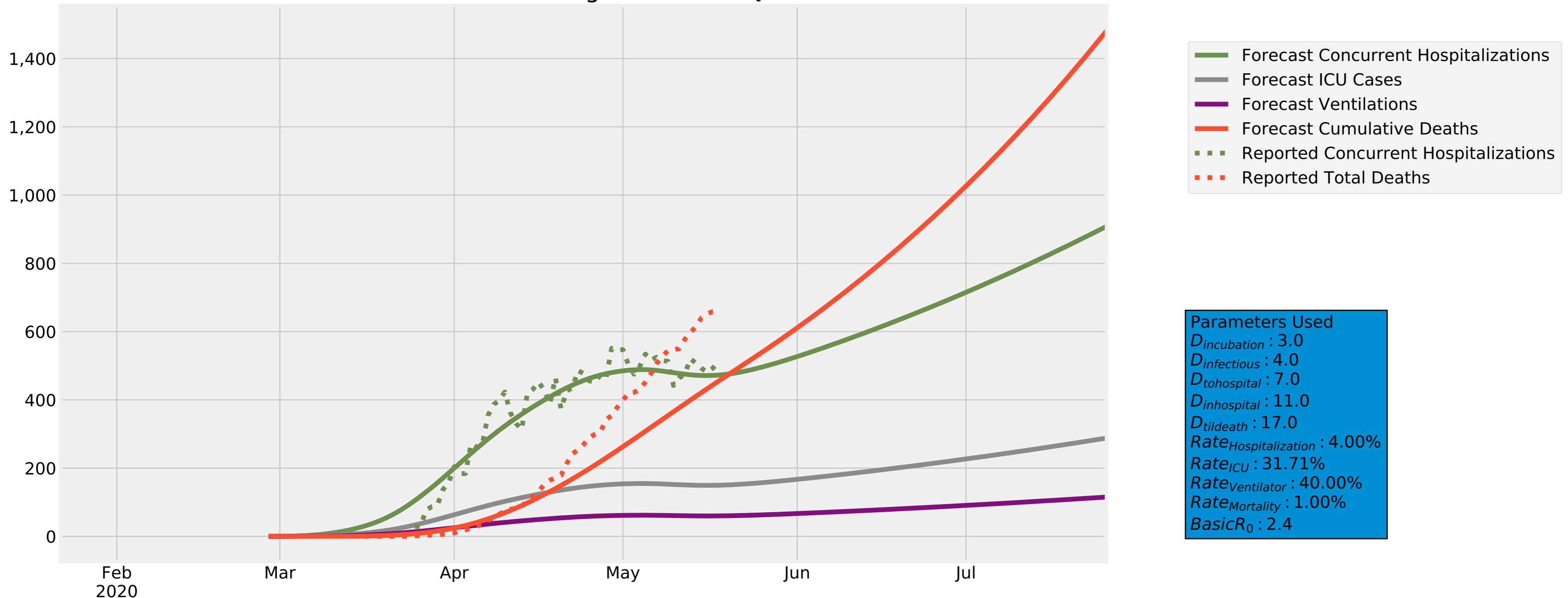
Simultaneous Infections Forecast

North Carolina: No Change in Future R_t Scenario



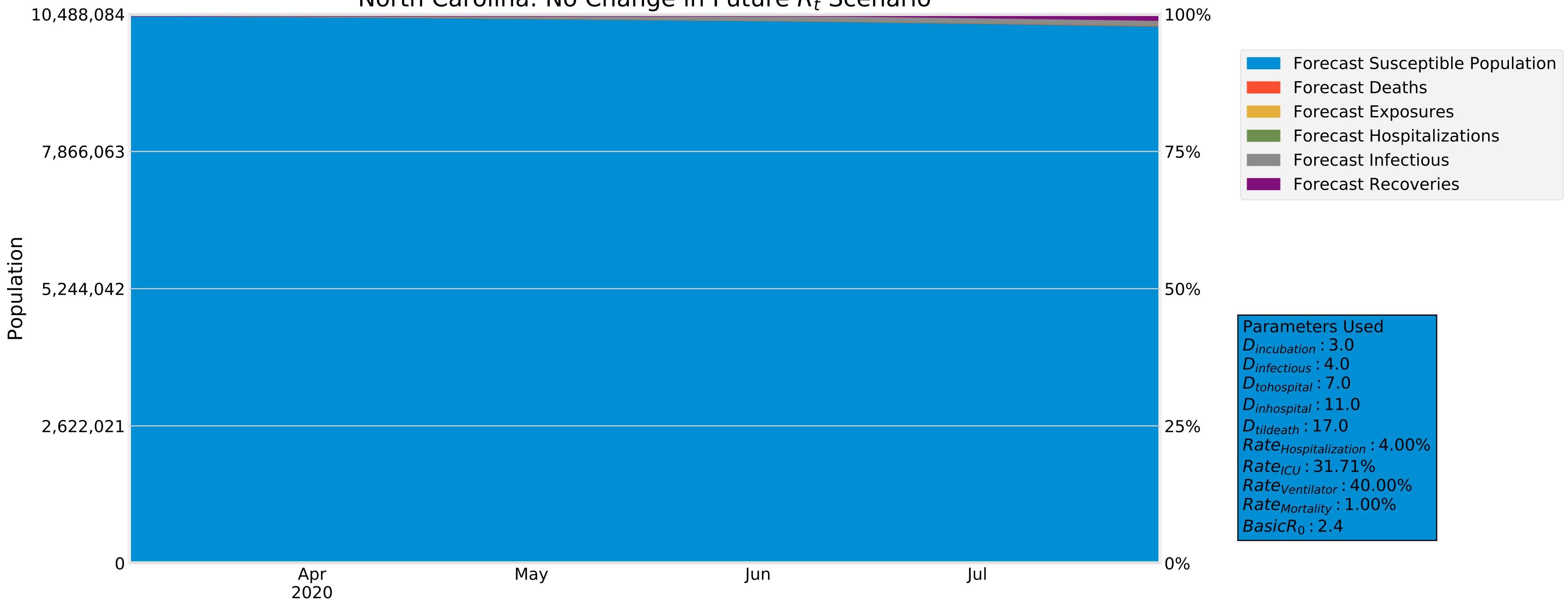
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Hospitalization and Deaths Forecast North Carolina: No Change in Future R_t Scenario

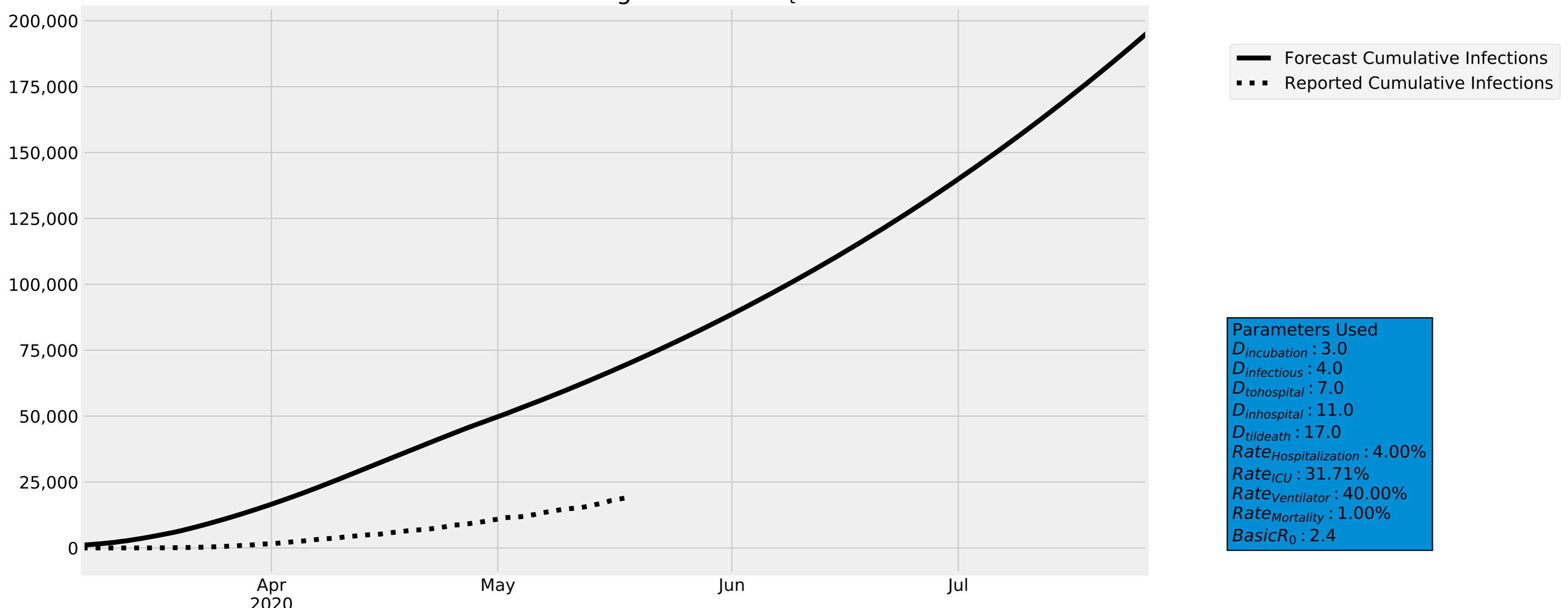


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast North Carolina: No Change in Future R_t Scenario



Cumulative Infections Forecast North Carolina: No Change in Future R_t Scenario

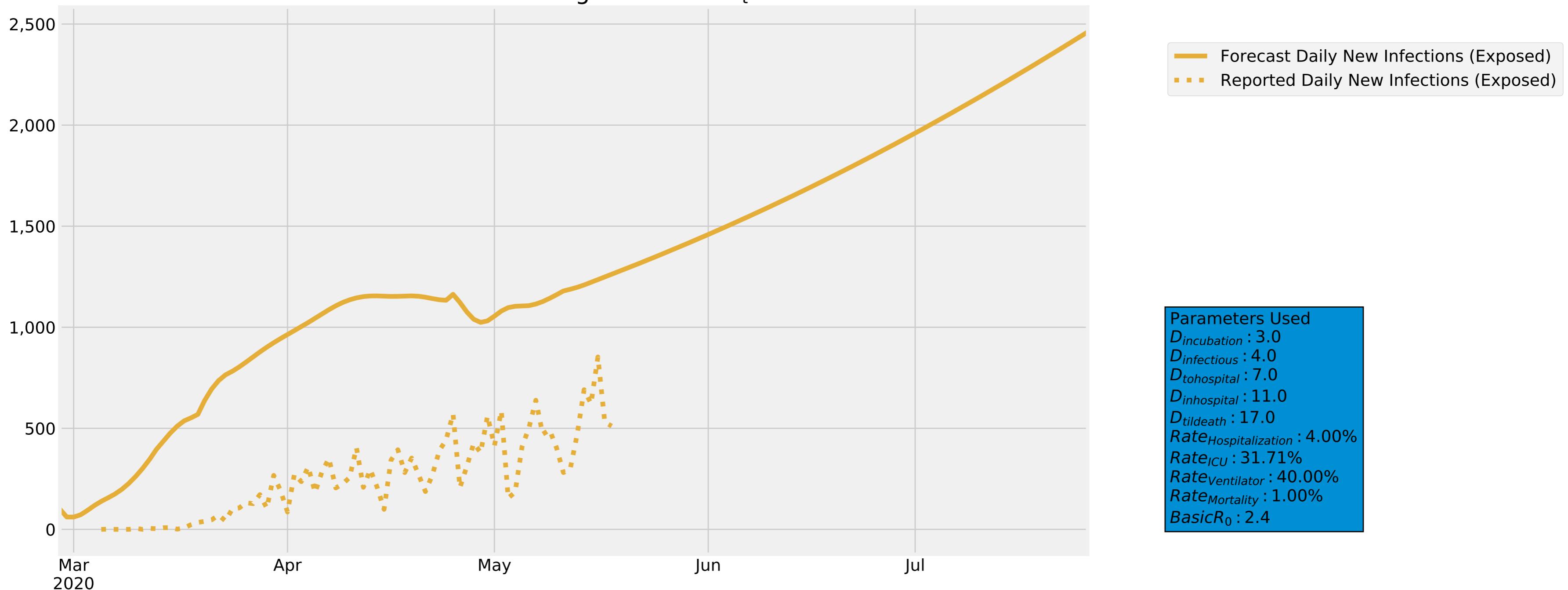


Parameters Used

$D_{incubation}$: 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%
 $BasicR_0$: 2.4

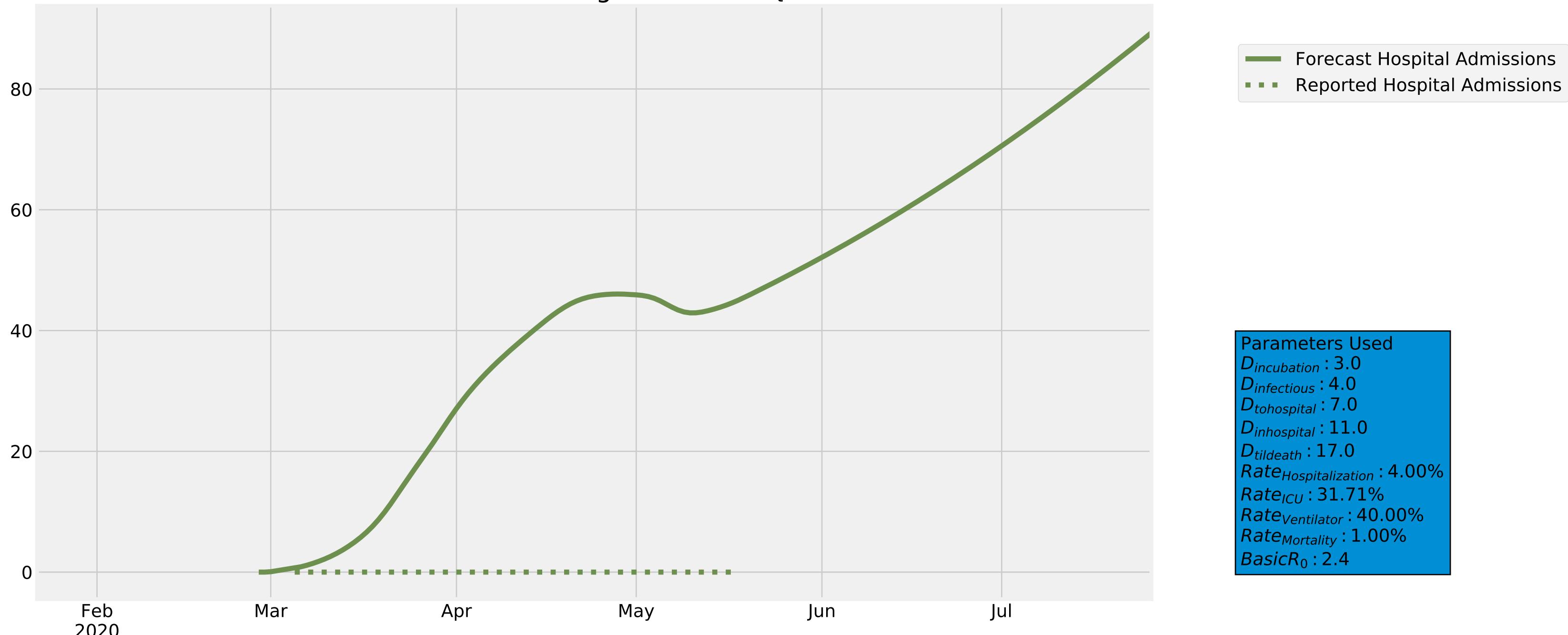
Daily Exposures Forecast

North Carolina: No Change in Future R_t Scenario



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

Daily Hospital Admissions Forecast North Carolina: No Change in Future R_t Scenario

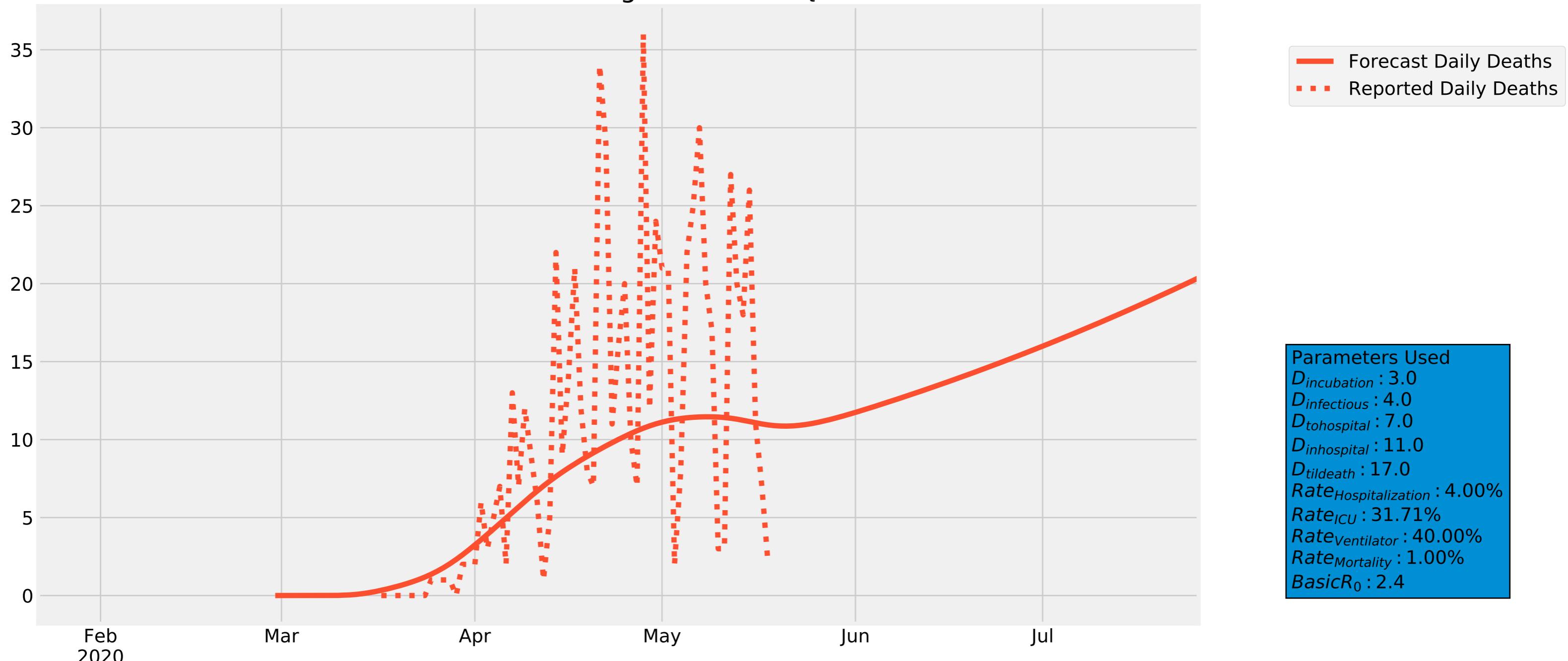


Parameters Used

$D_{incubation}$: 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%
 $BasicR_0$: 2.4

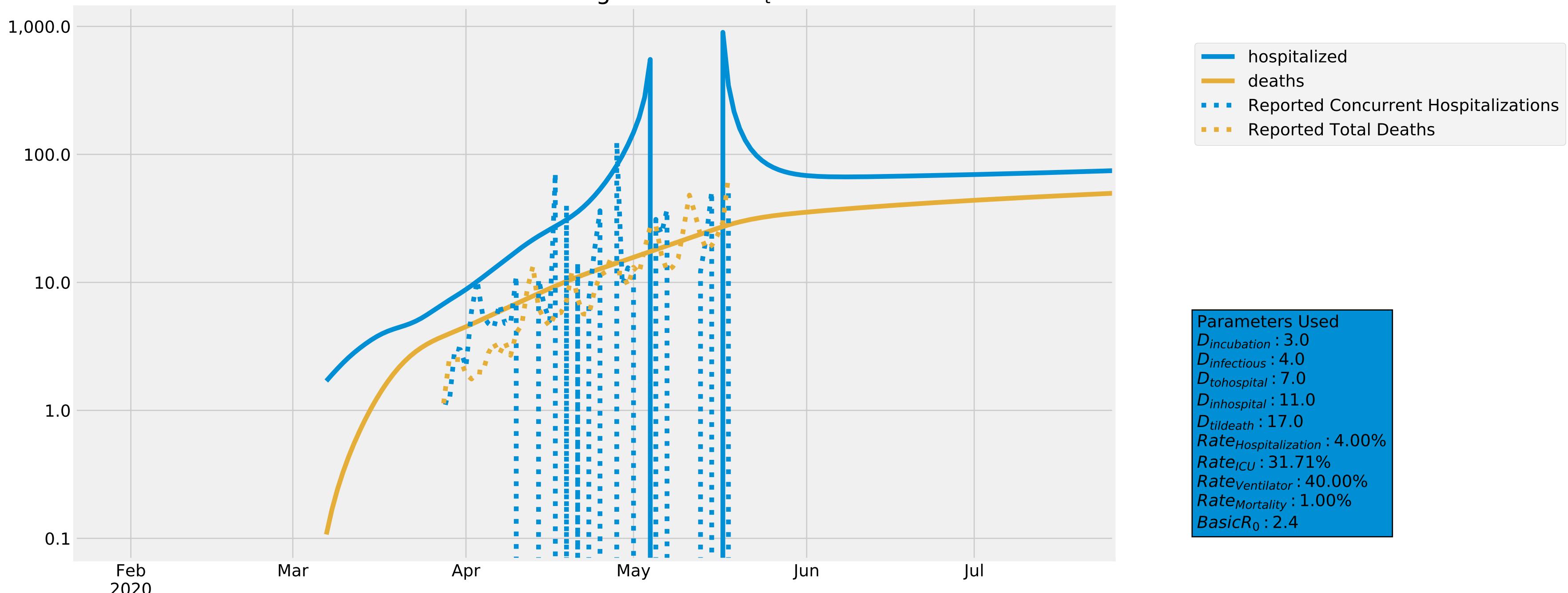
Daily Deaths Forecast

North Carolina: No Change in Future R_t Scenario



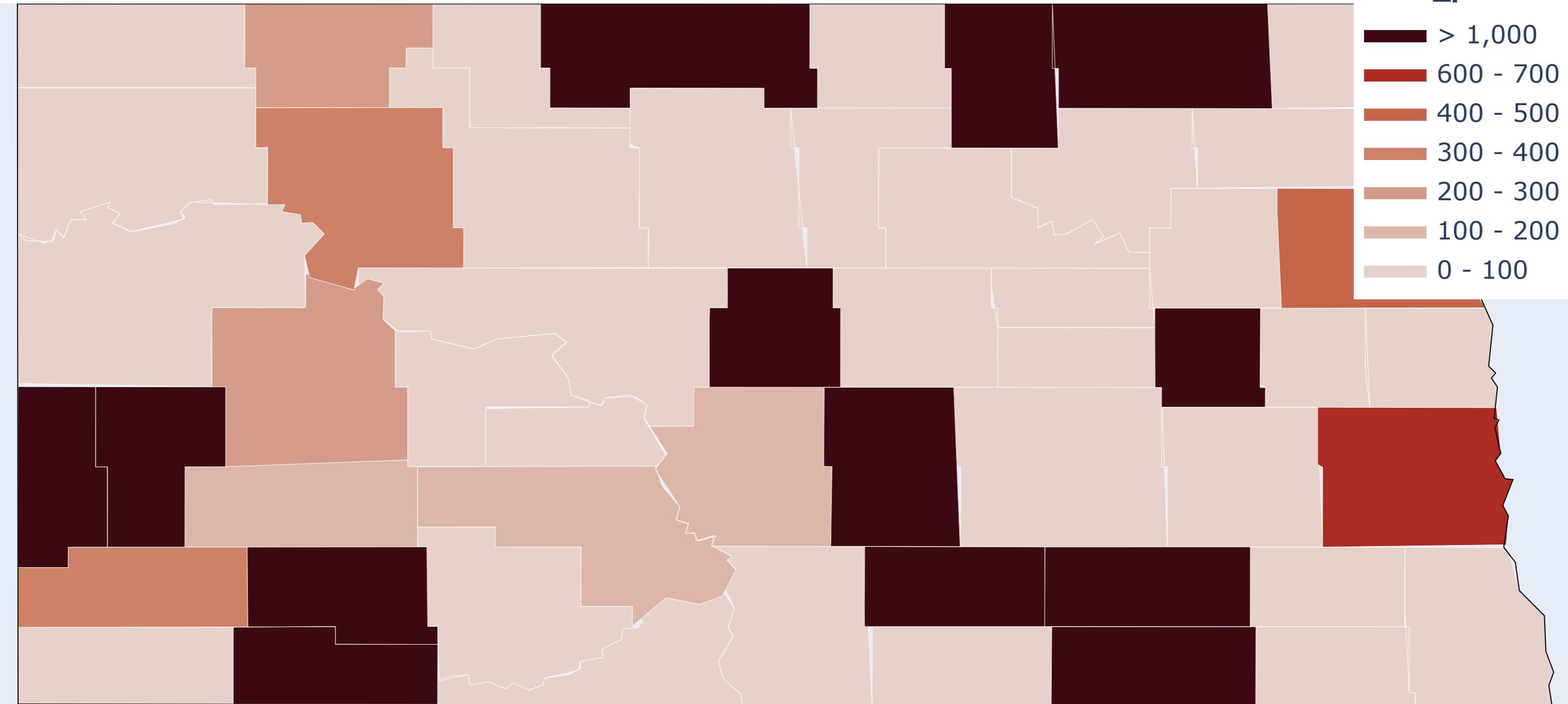
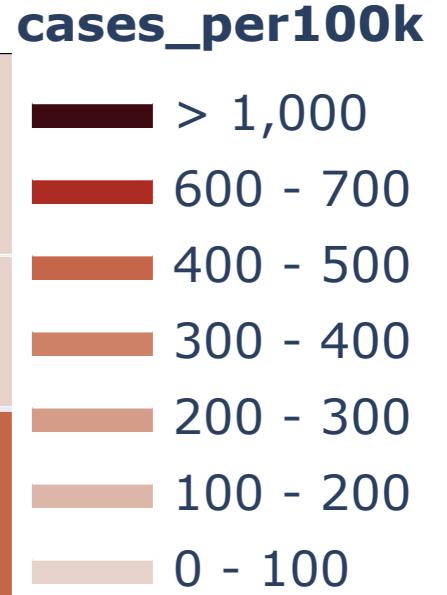
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast North Carolina: No Change in Future R_t Scenario



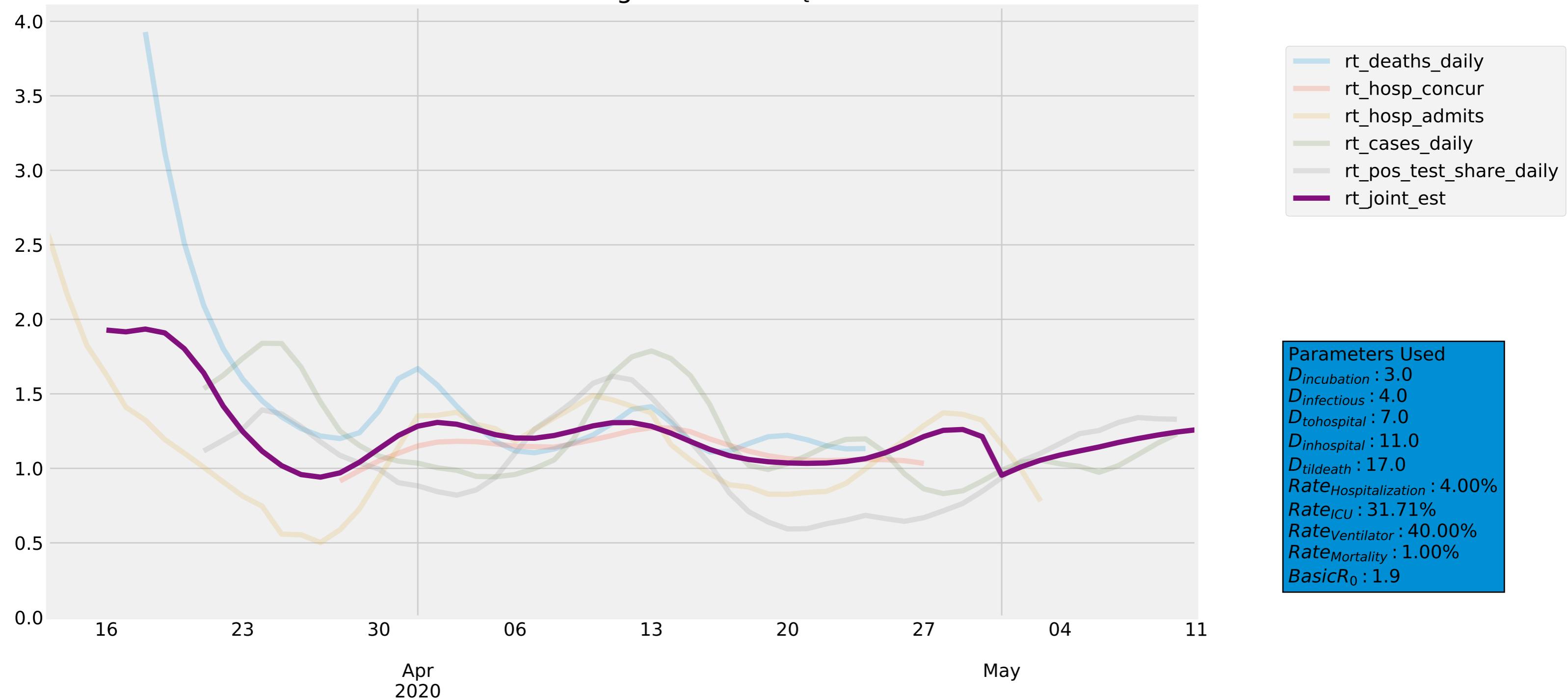
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

North Dakota: COVID-19 Cases Per 100k Residents



Reproduction Rate (R_t) Estimates

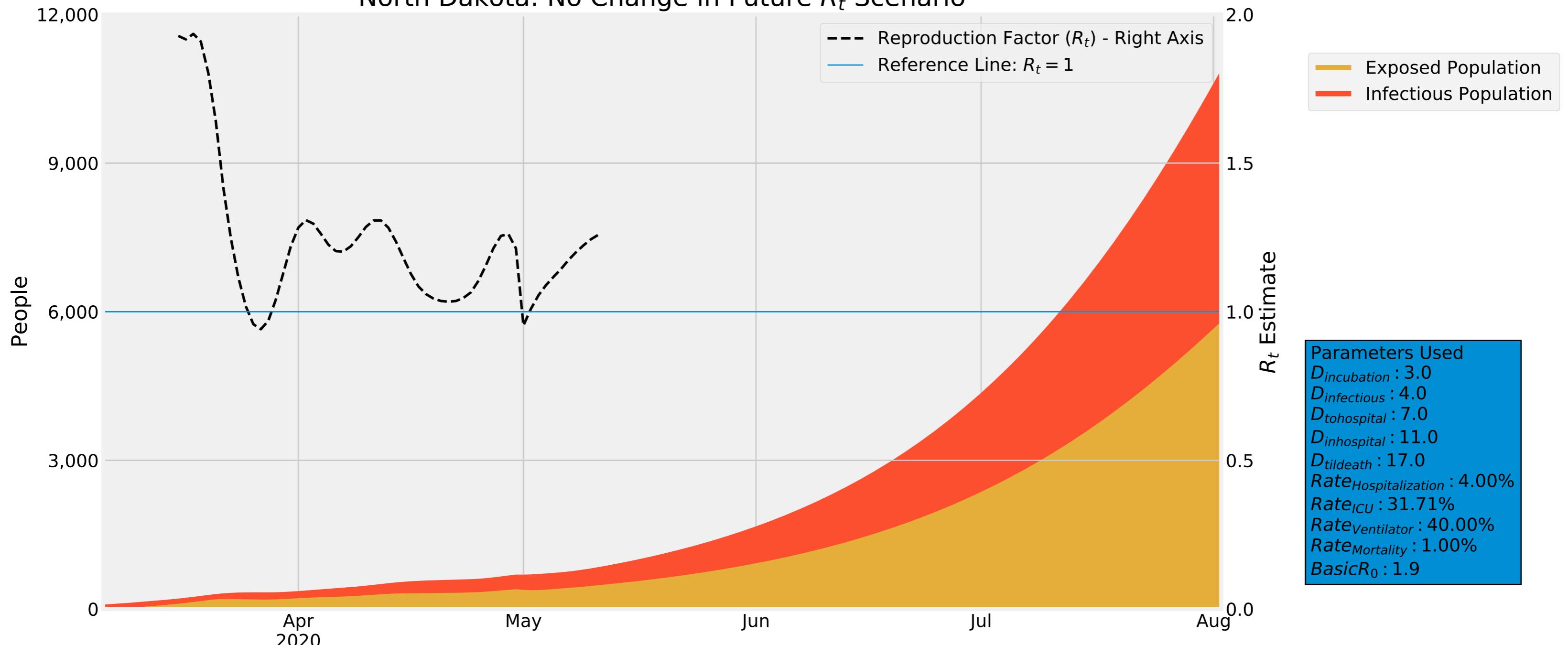
North Dakota: No Change in Future R_t Scenario



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

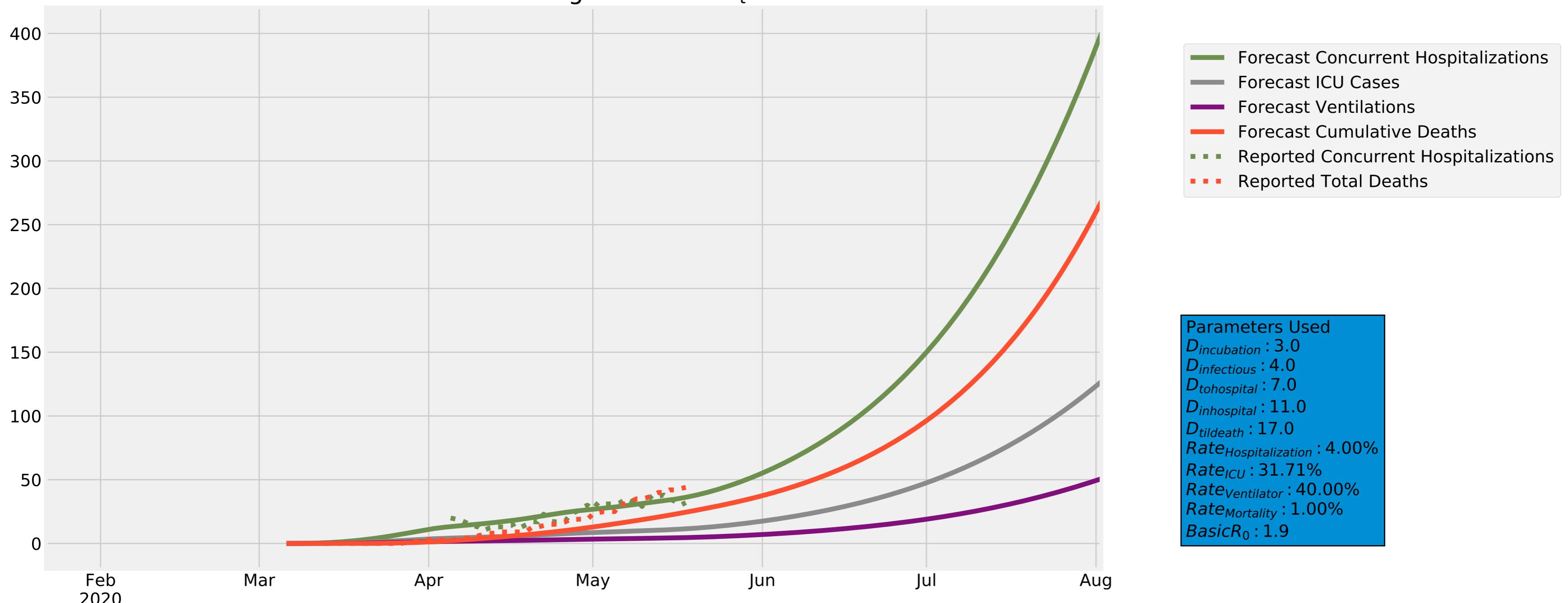
Simultaneous Infections Forecast

North Dakota: No Change in Future R_t Scenario



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

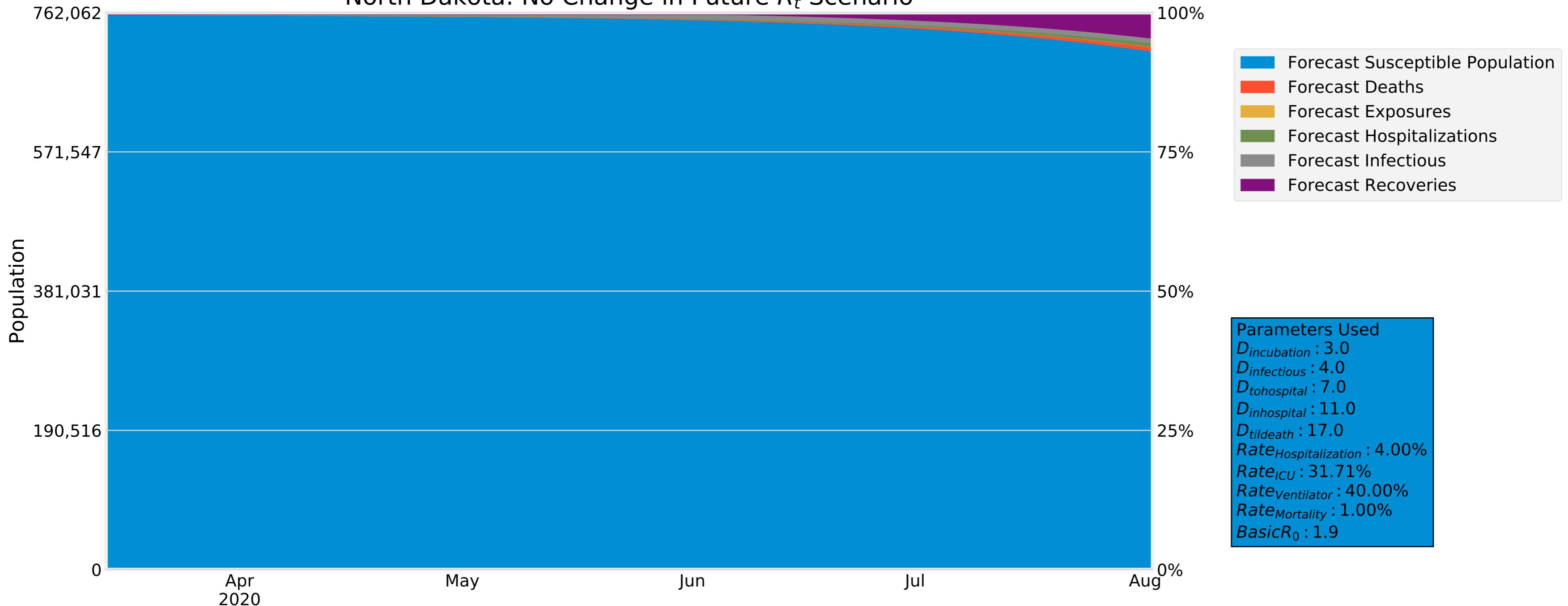
Hospitalization and Deaths Forecast North Dakota: No Change in Future R_t Scenario



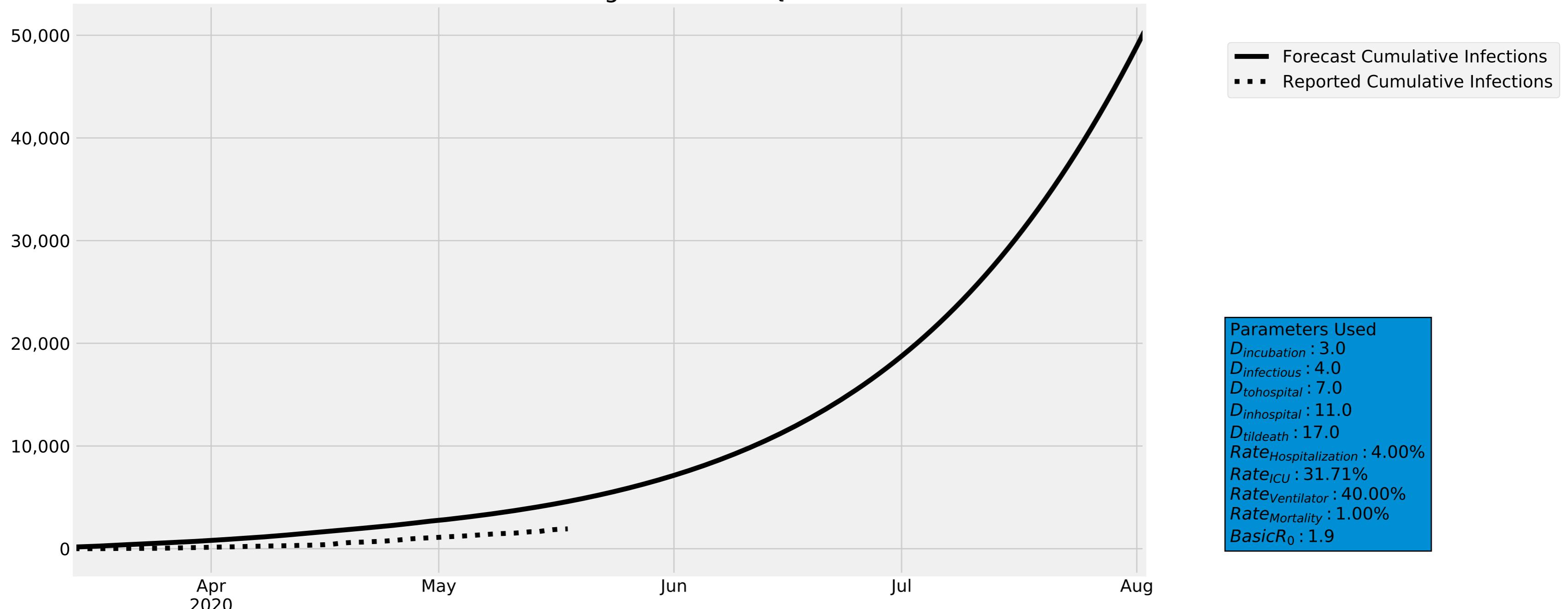
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

North Dakota: No Change in Future R_t Scenario



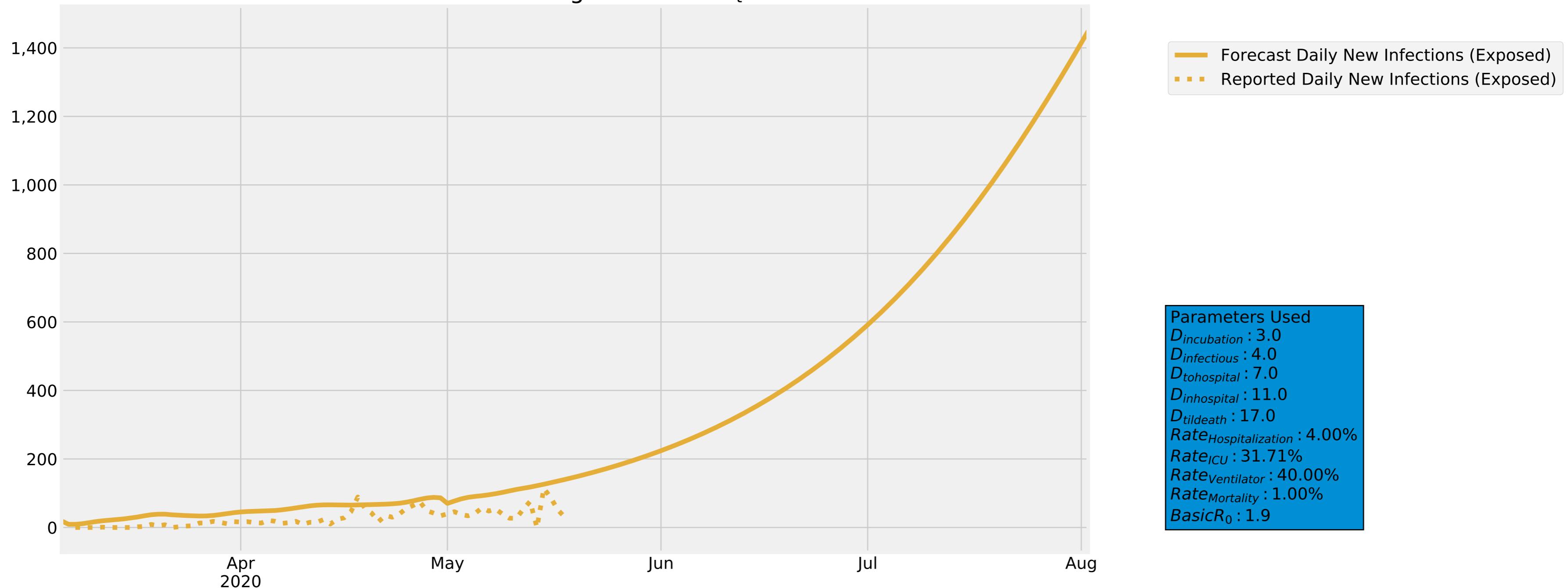
Cumulative Infections Forecast North Dakota: No Change in Future R_t Scenario



Parameters Used

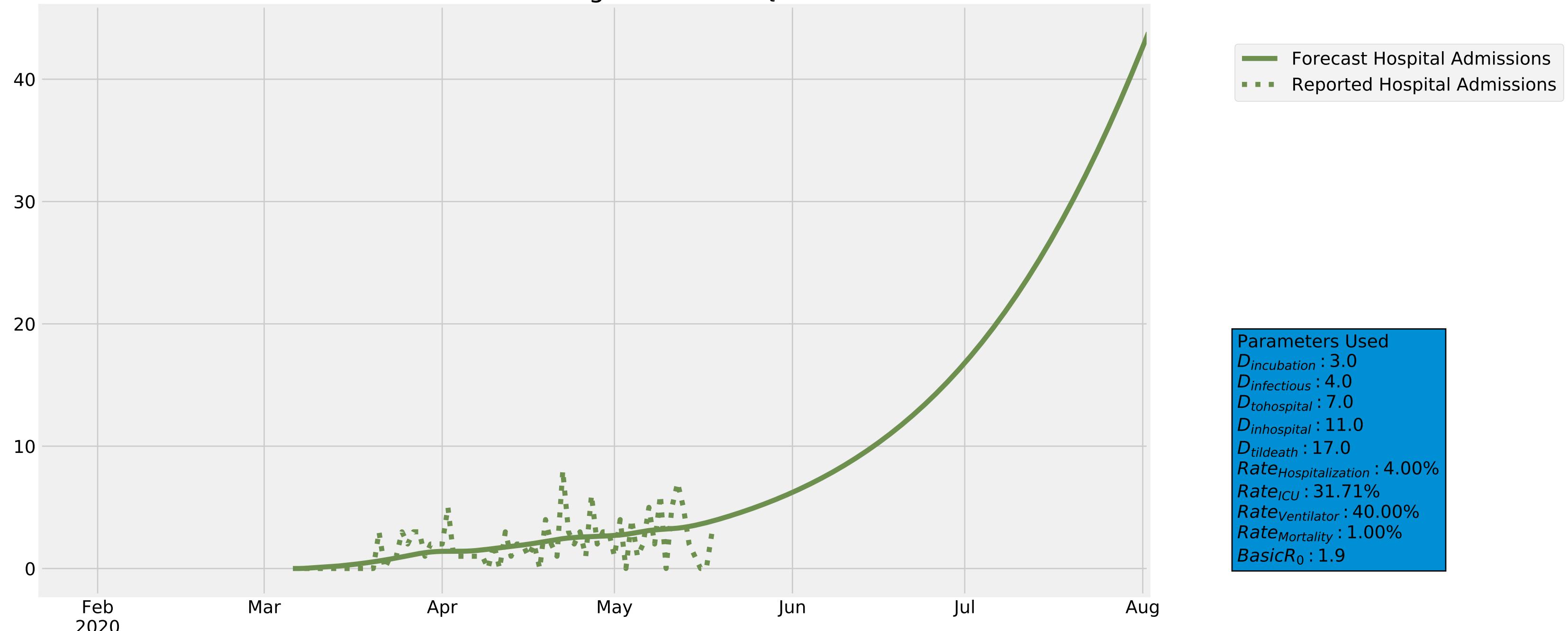
$D_{incubation}$: 3.0
 $D_{infectious}$: 4.0
 $D_{tohospital}$: 7.0
 $D_{inhospital}$: 11.0
 $D_{tildeath}$: 17.0
 $Rate_{Hospitalization}$: 4.00%
 $Rate_{ICU}$: 31.71%
 $Rate_{Ventilator}$: 40.00%
 $Rate_{Mortality}$: 1.00%
 $BasicR_0$: 1.9

Daily Exposures Forecast North Dakota: No Change in Future R_t Scenario



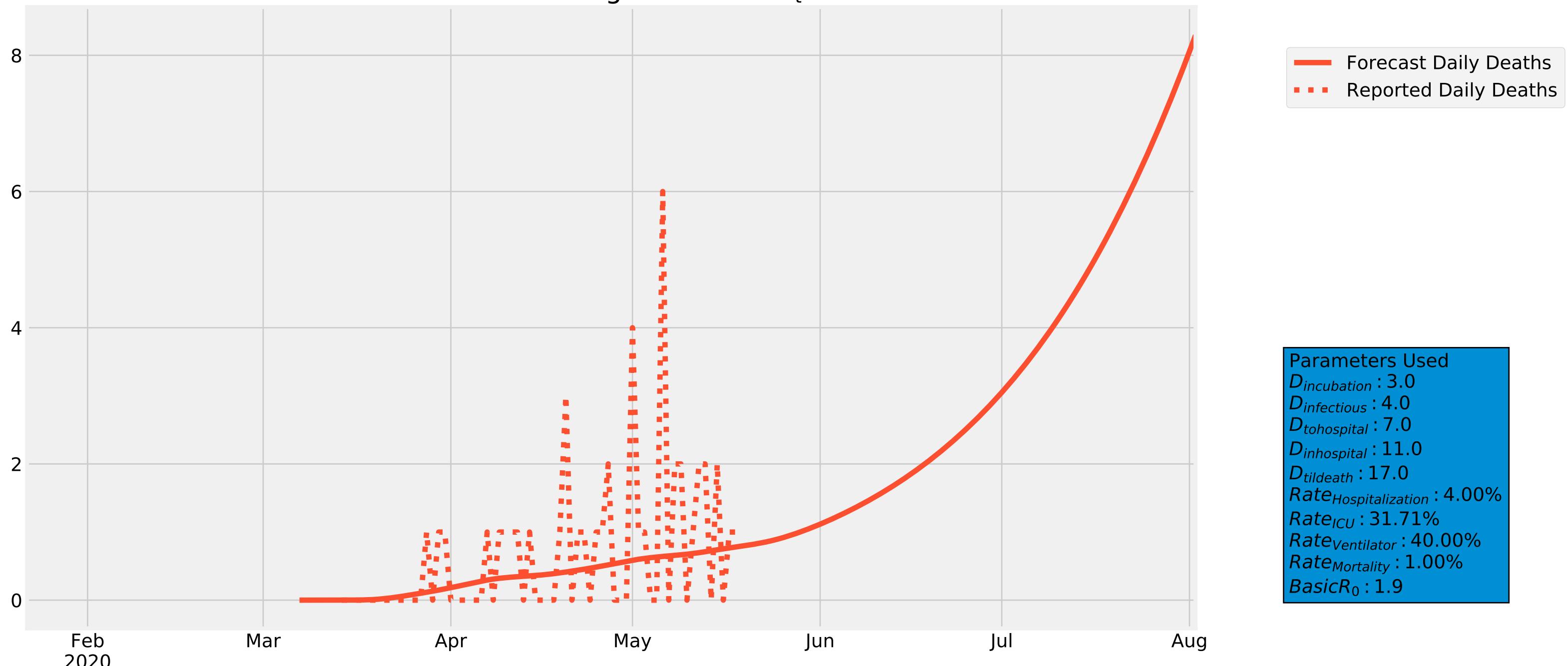
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Daily Hospital Admissions Forecast North Dakota: No Change in Future R_t Scenario



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

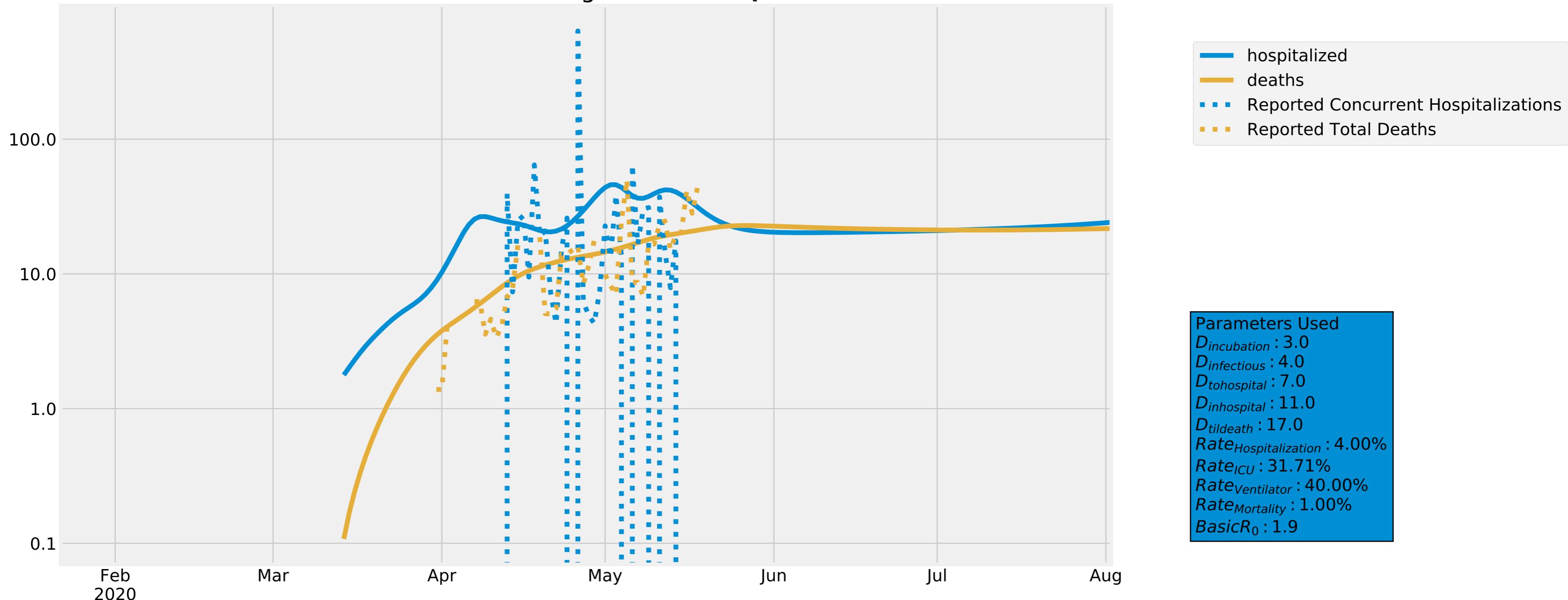
Daily Deaths Forecast North Dakota: No Change in Future R_t Scenario



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

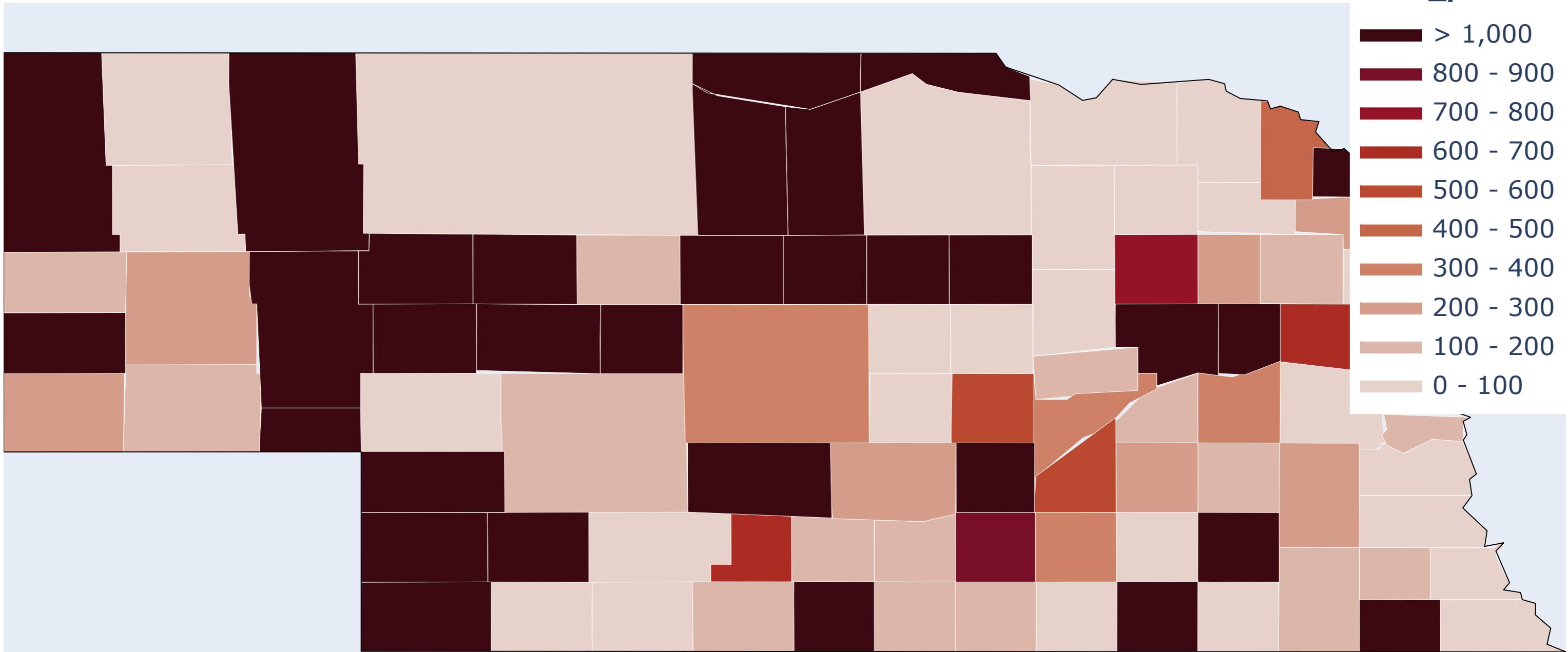
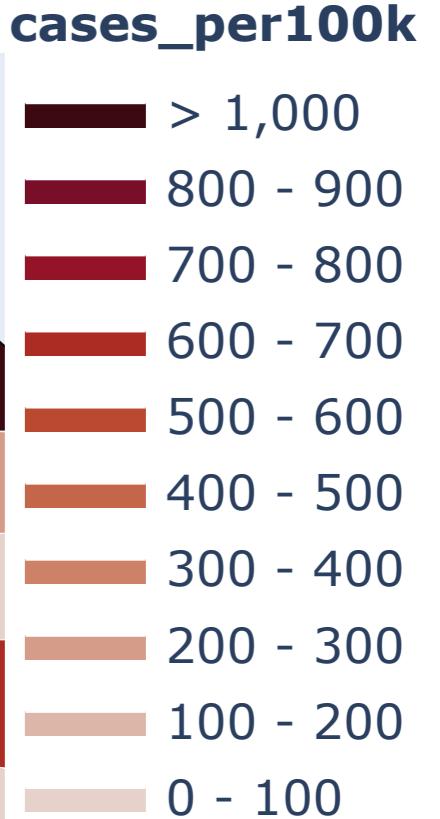
Doubling Rate Forecast

North Dakota: No Change in Future R_t Scenario



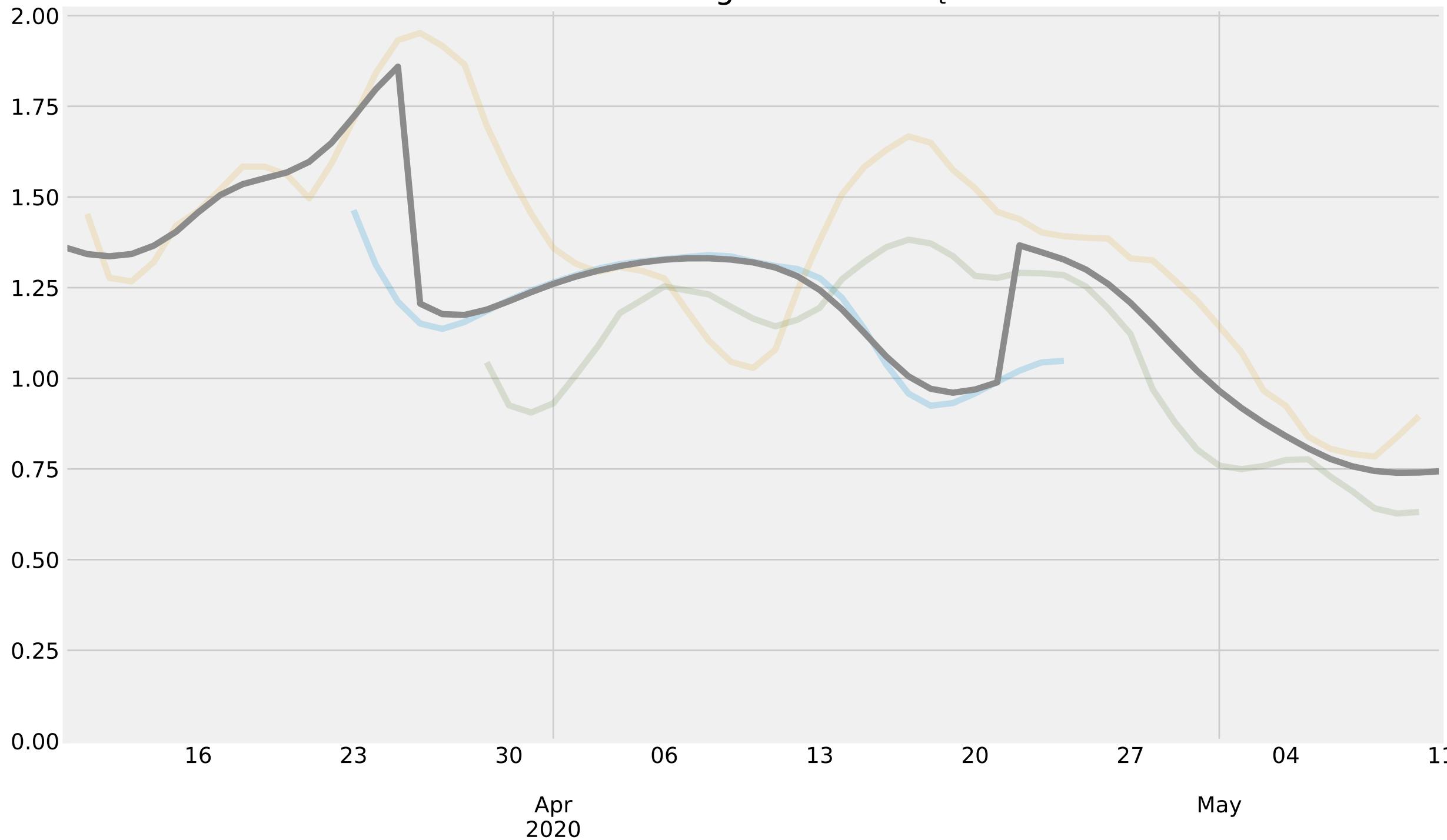
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Nebraska: COVID-19 Cases Per 100k Residents



Reproduction Rate (R_t) Estimates

Nebraska: No Change in Future R_t Scenario



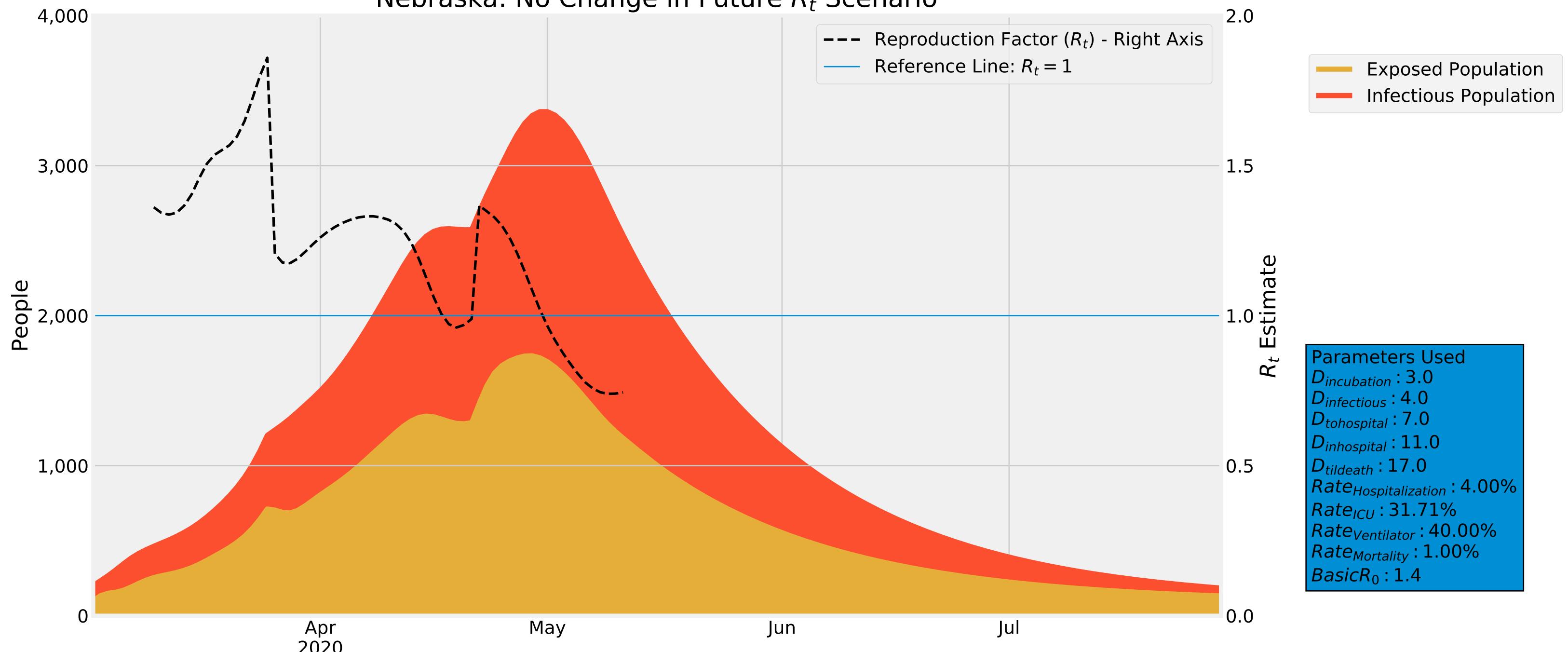
Parameters Used

$D_{incubation}$: 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%
$BasicR_0$: 1.4

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

Simultaneous Infections Forecast

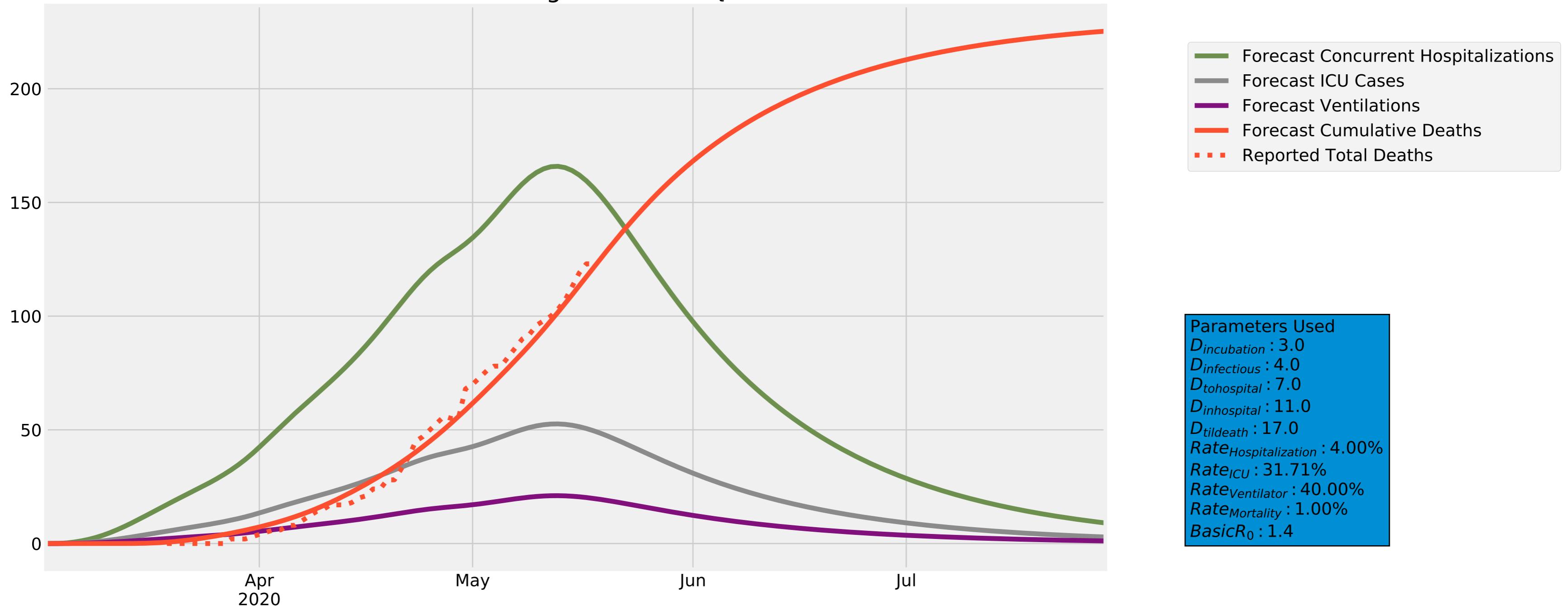
Nebraska: No Change in Future R_t Scenario



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

Hospitalization and Deaths Forecast

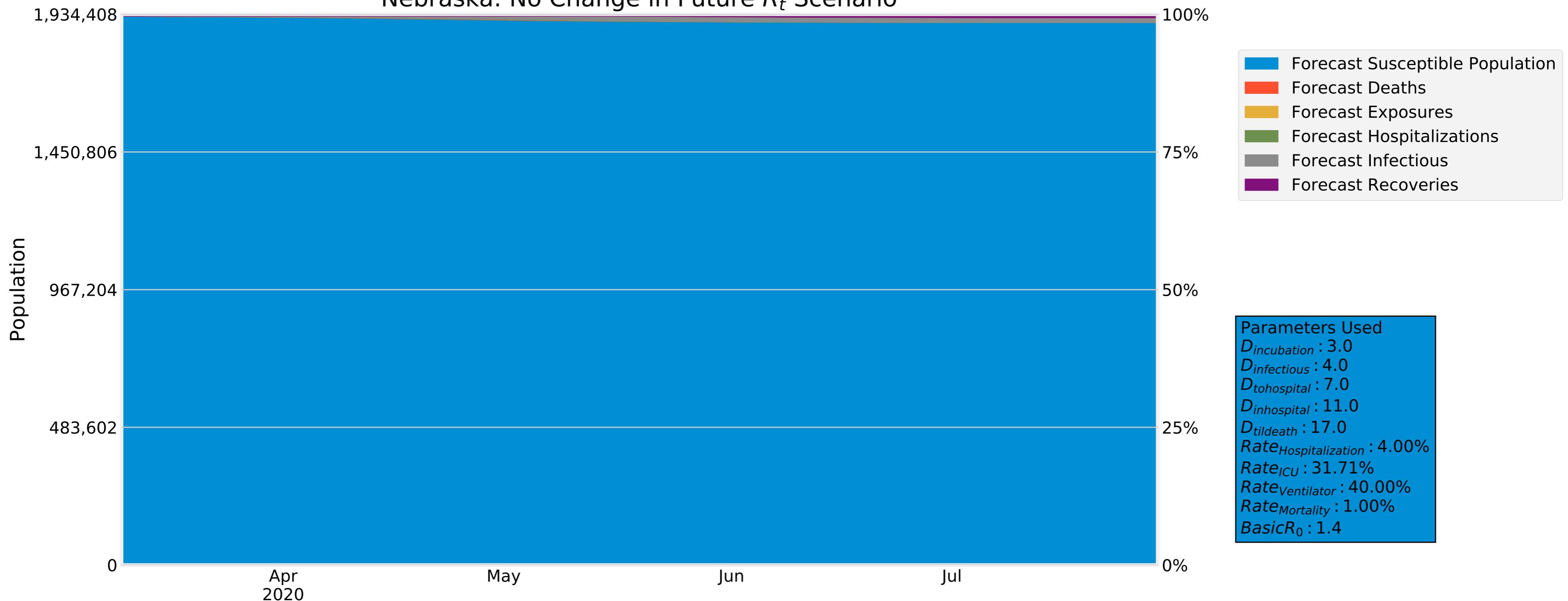
Nebraska: No Change in Future R_t Scenario



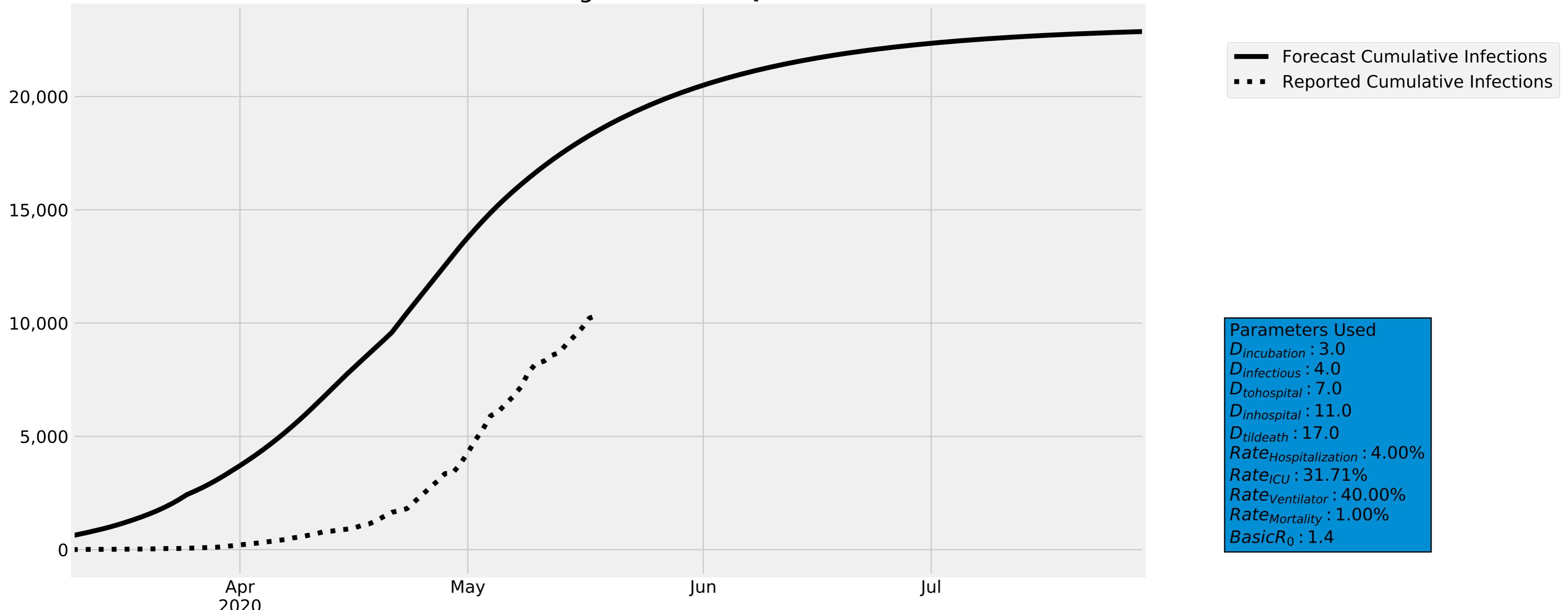
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

Nebraska: No Change in Future R_t Scenario



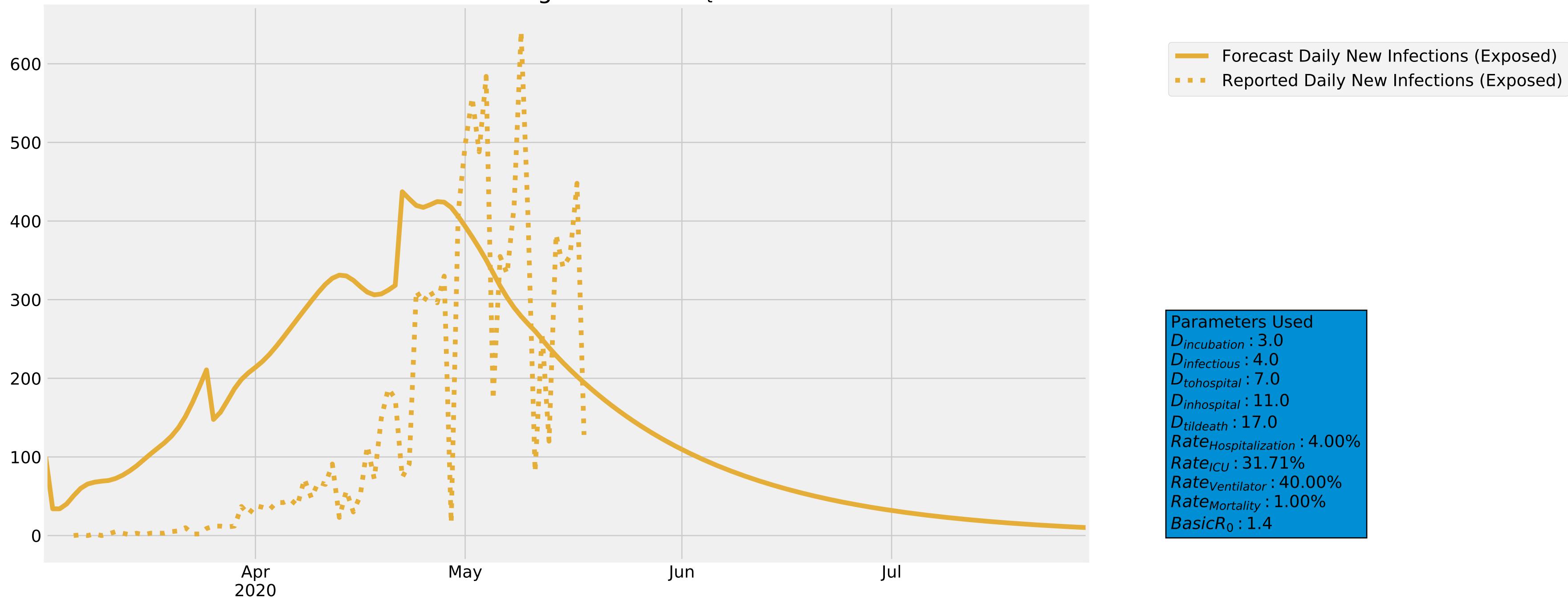
Cumulative Infections Forecast Nebraska: No Change in Future R_t Scenario



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%
- $BasicR_0$: 1.4

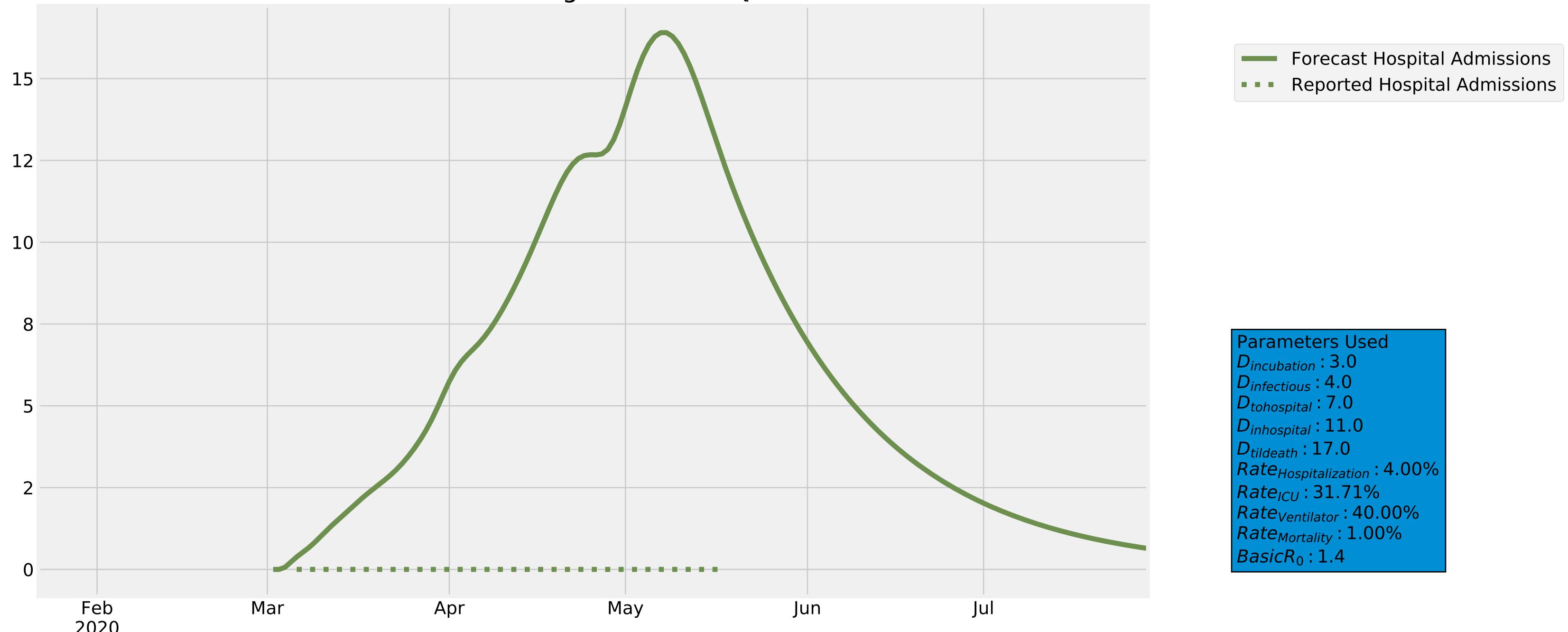
Daily Exposures Forecast Nebraska: No Change in Future R_t Scenario



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%
- Basic R_0 : 1.4

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

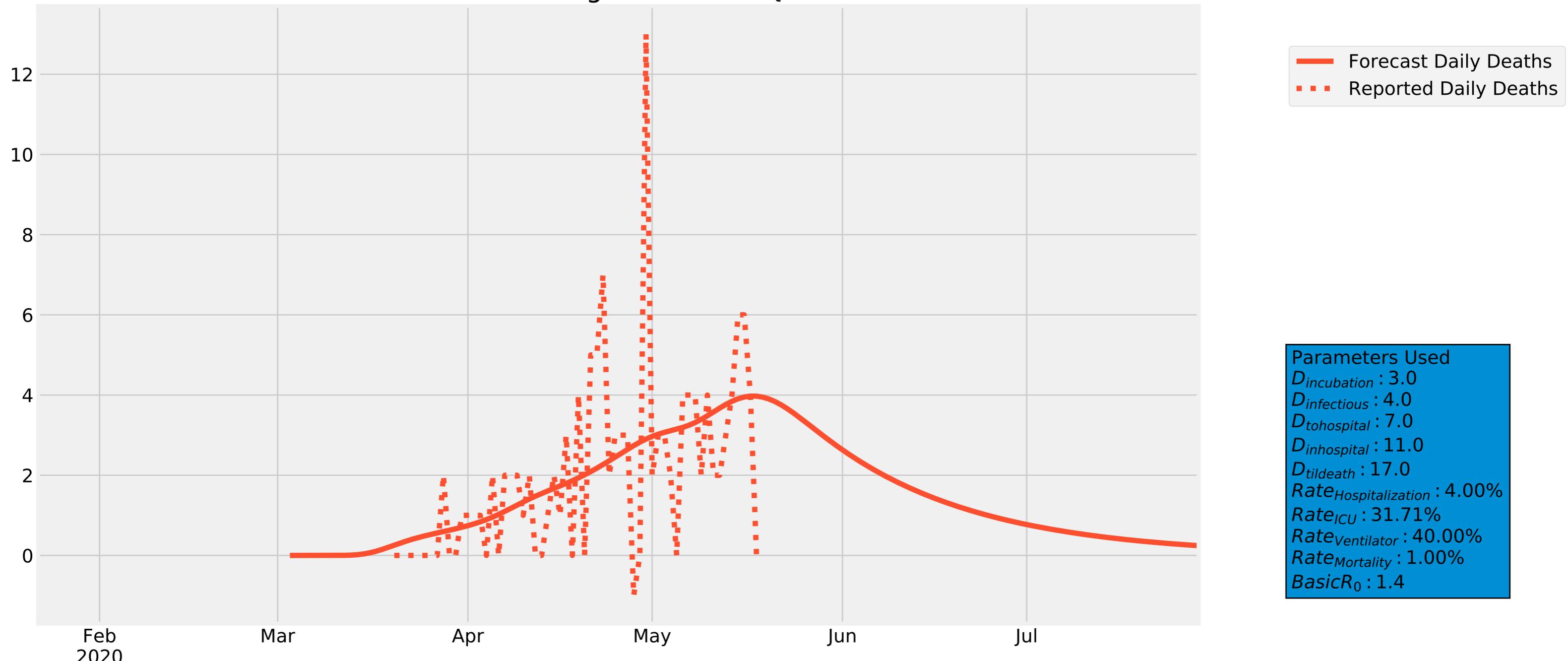


Parameters Used

$D_{incubation}$: 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%
 $BasicR_0$: 1.4

Daily Deaths Forecast

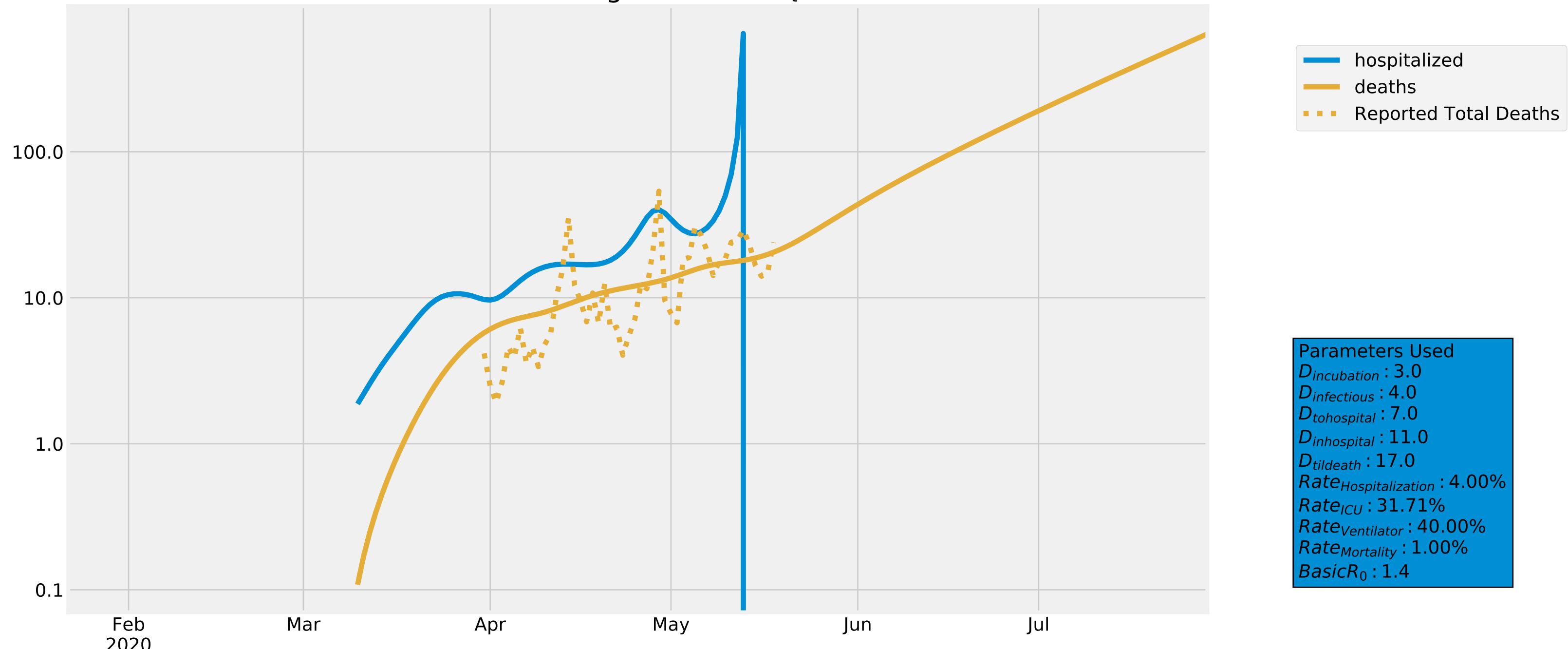
Nebraska: No Change in Future R_t Scenario



Parameters Used

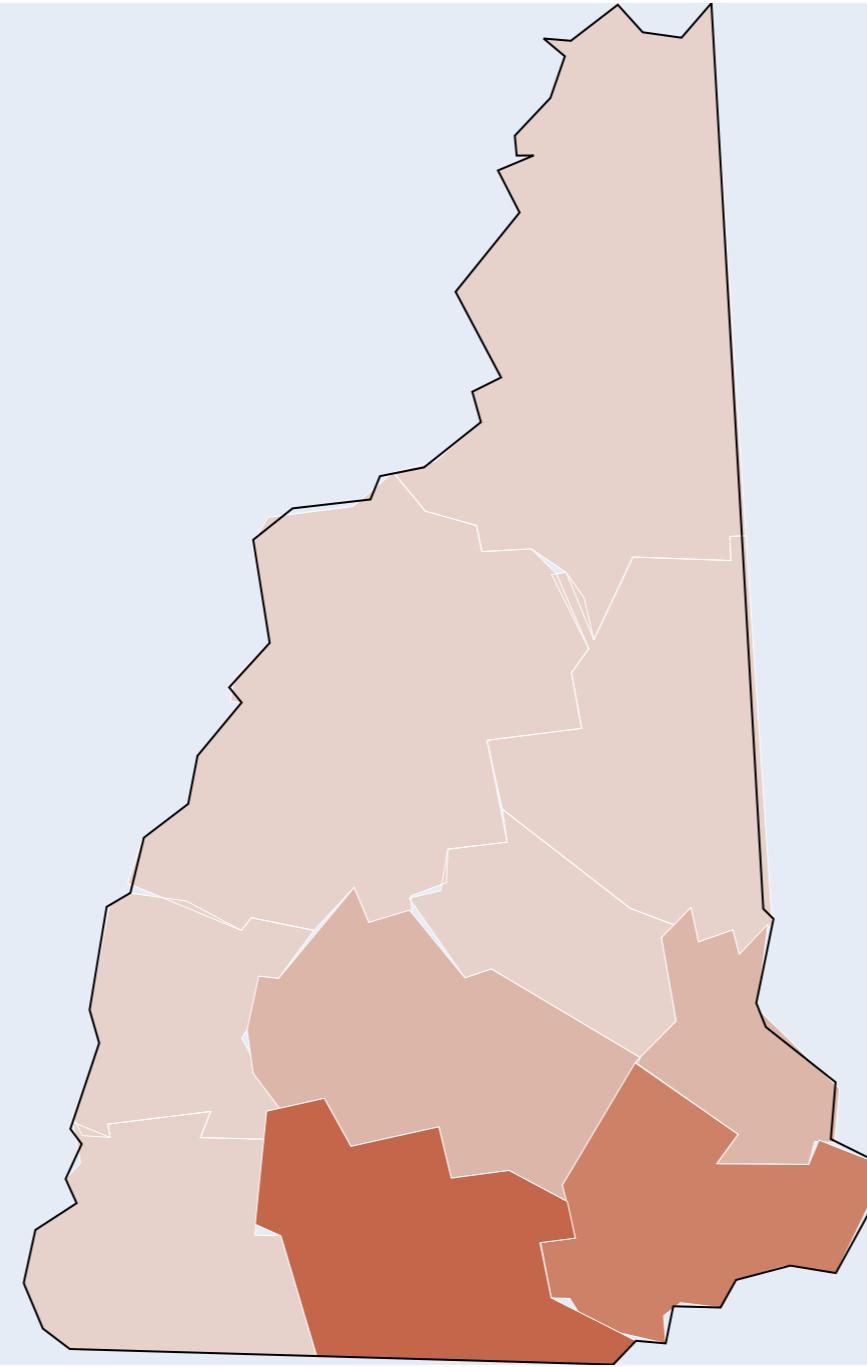
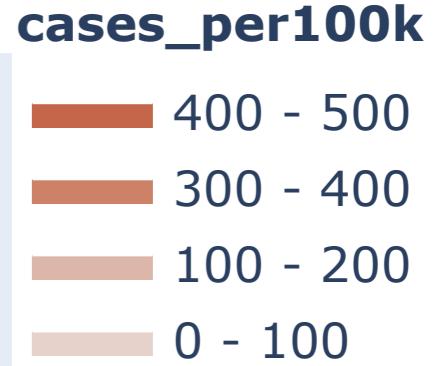
$D_{incubation}$: 3.0
 $D_{infectious}$: 4.0
 $D_{tohospital}$: 7.0
 $D_{inhospital}$: 11.0
 $D_{tildeath}$: 17.0
 $Rate_{Hospitalization}$: 4.00%
 $Rate_{ICU}$: 31.71%
 $Rate_{Ventilator}$: 40.00%
 $Rate_{Mortality}$: 1.00%
 $BasicR_0$: 1.4

Doubling Rate Forecast Nebraska: No Change in Future R_t Scenario



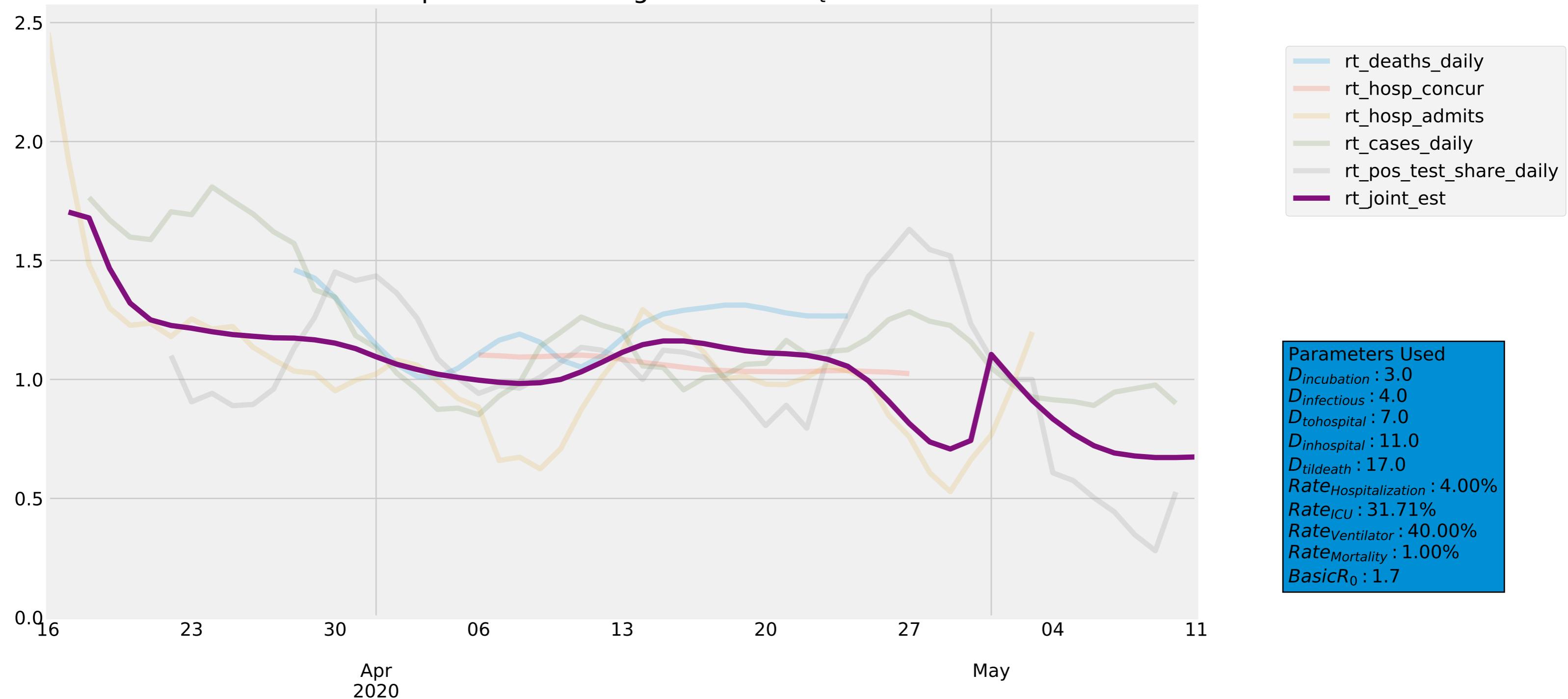
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

New Hampshire: COVID-19 Cases Per 100k Residents



Reproduction Rate (R_t) Estimates

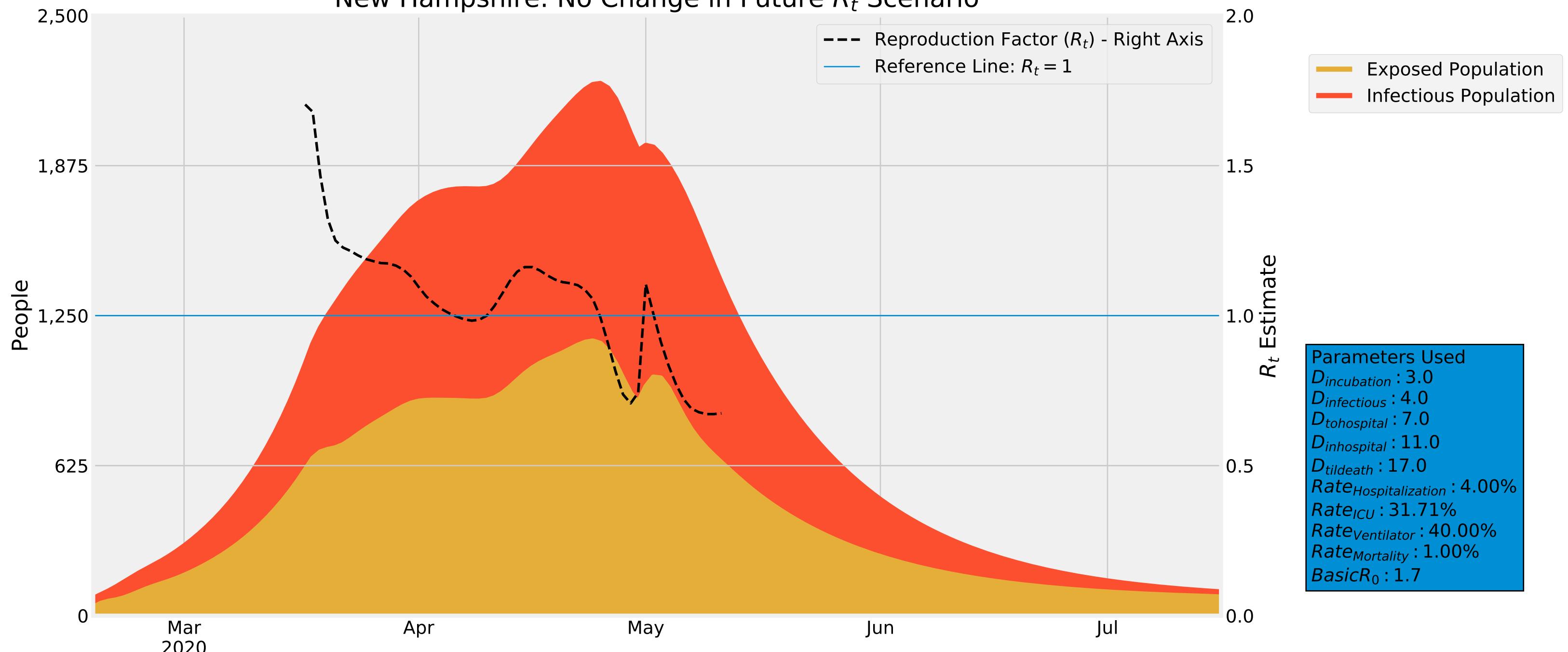
New Hampshire: No Change in Future R_t Scenario



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

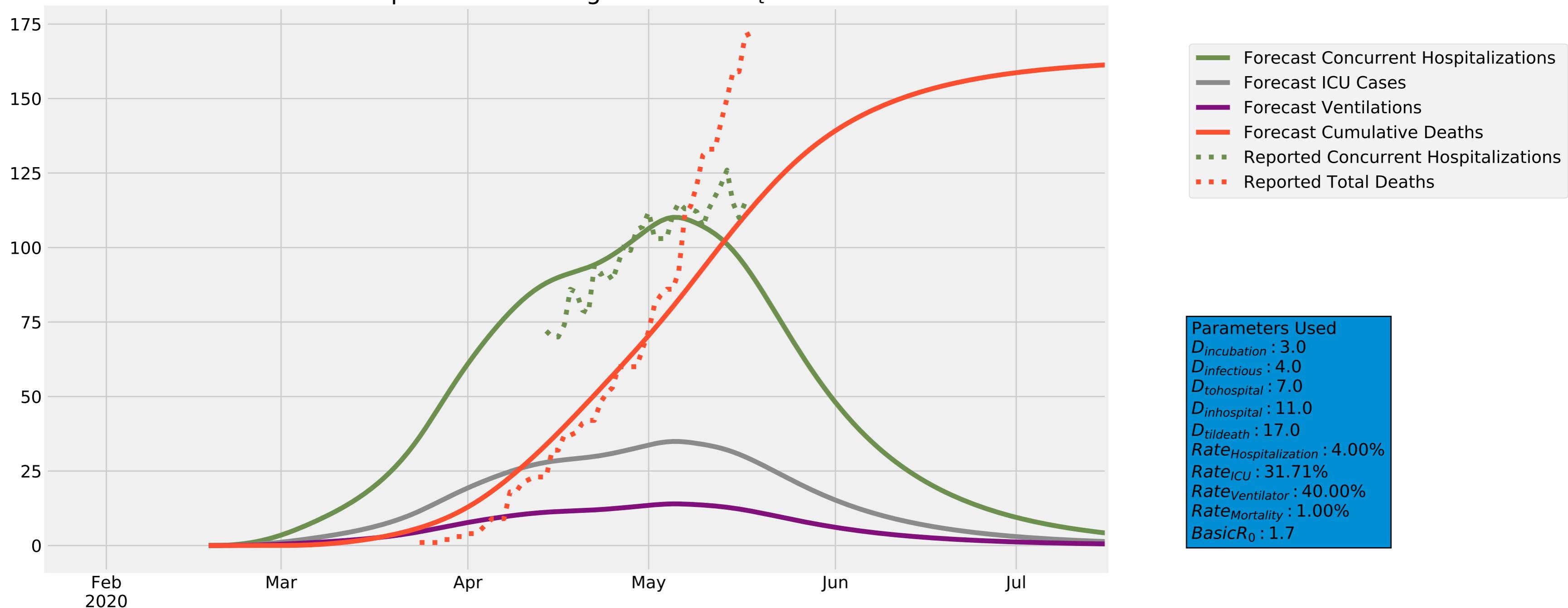
Simultaneous Infections Forecast

New Hampshire: No Change in Future R_t Scenario



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

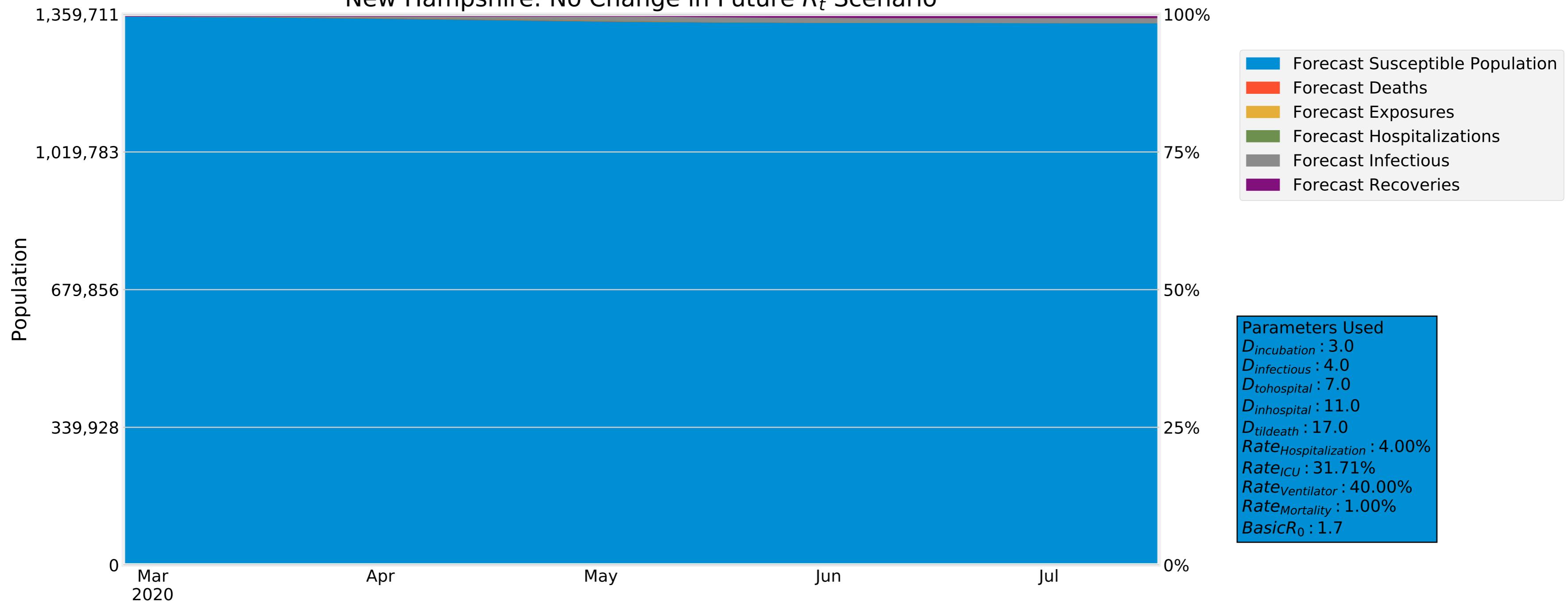
Hospitalization and Deaths Forecast New Hampshire: No Change in Future R_t Scenario



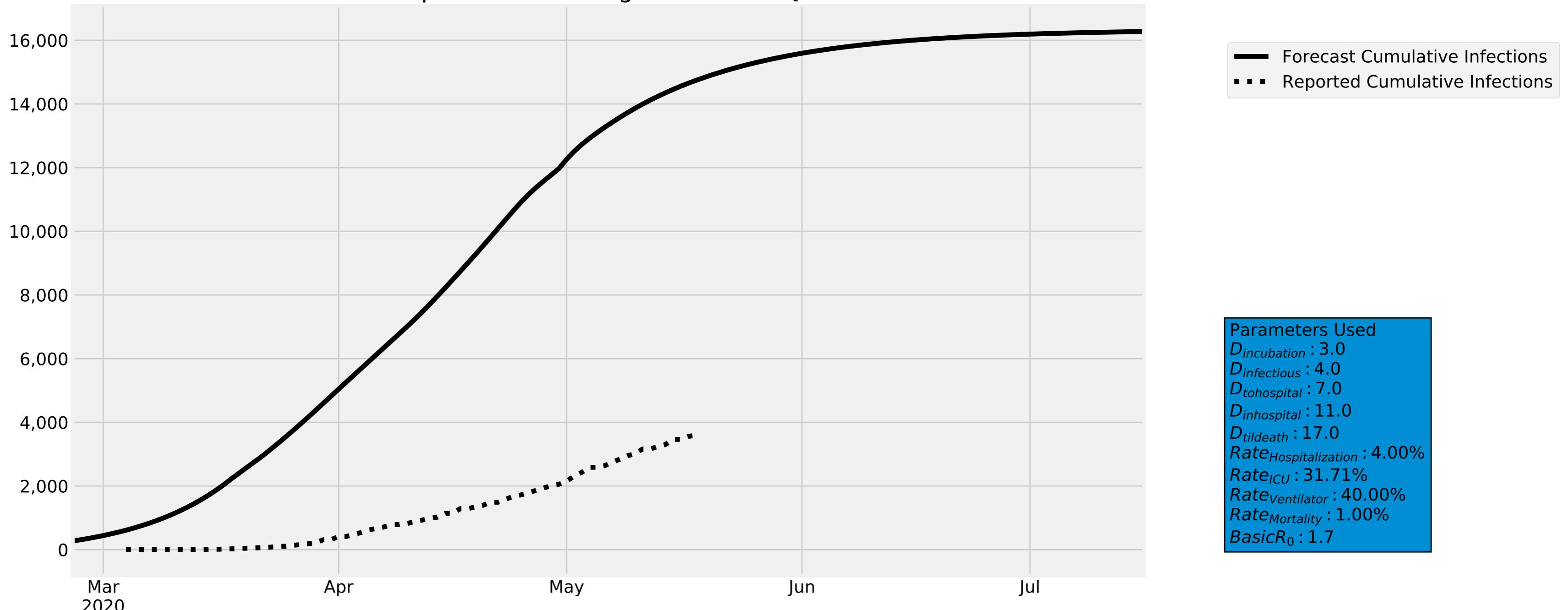
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

New Hampshire: No Change in Future R_t Scenario



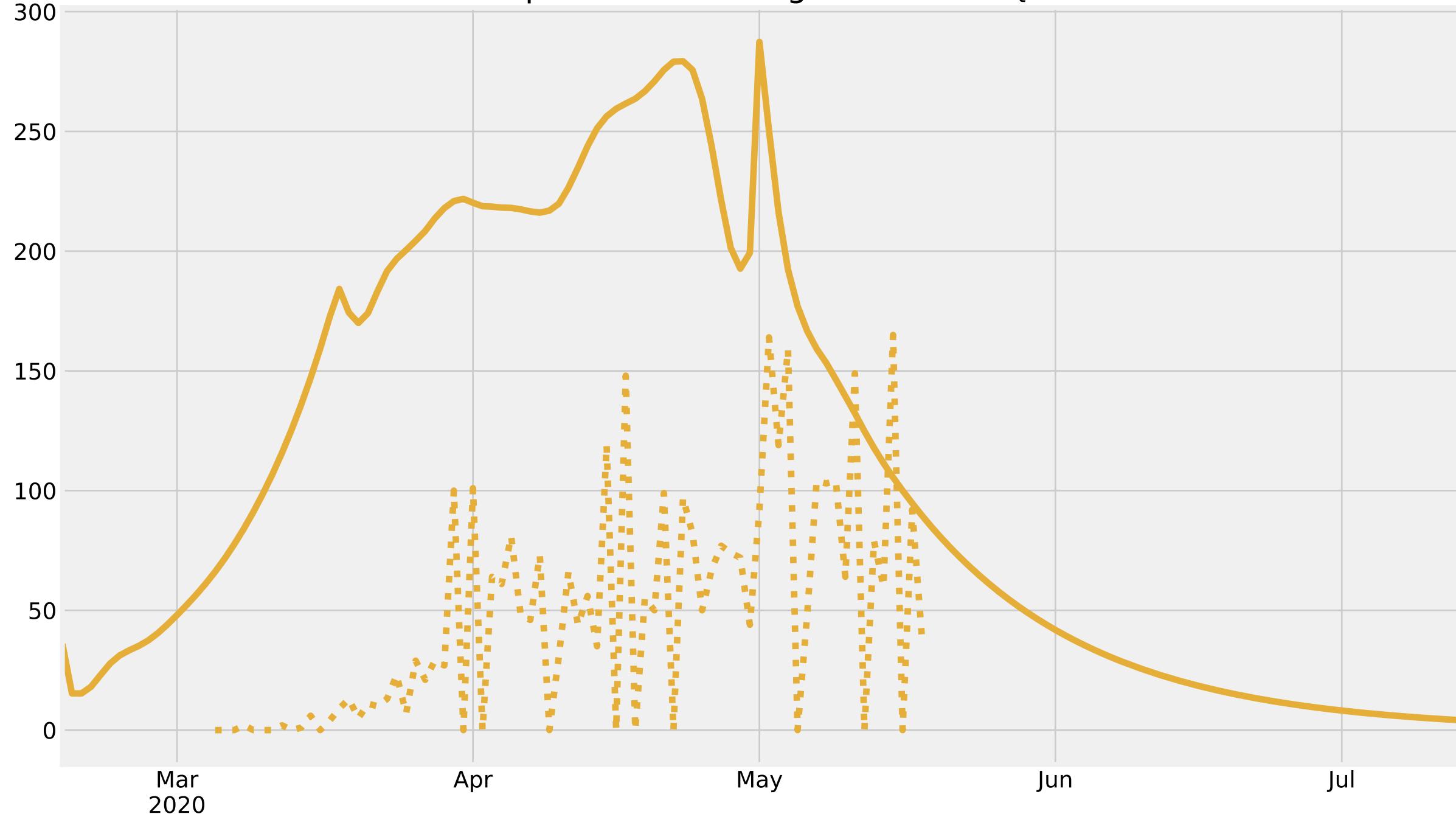
Cumulative Infections Forecast New Hampshire: No Change in Future R_t Scenario



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%
- $BasicR_0$: 1.7

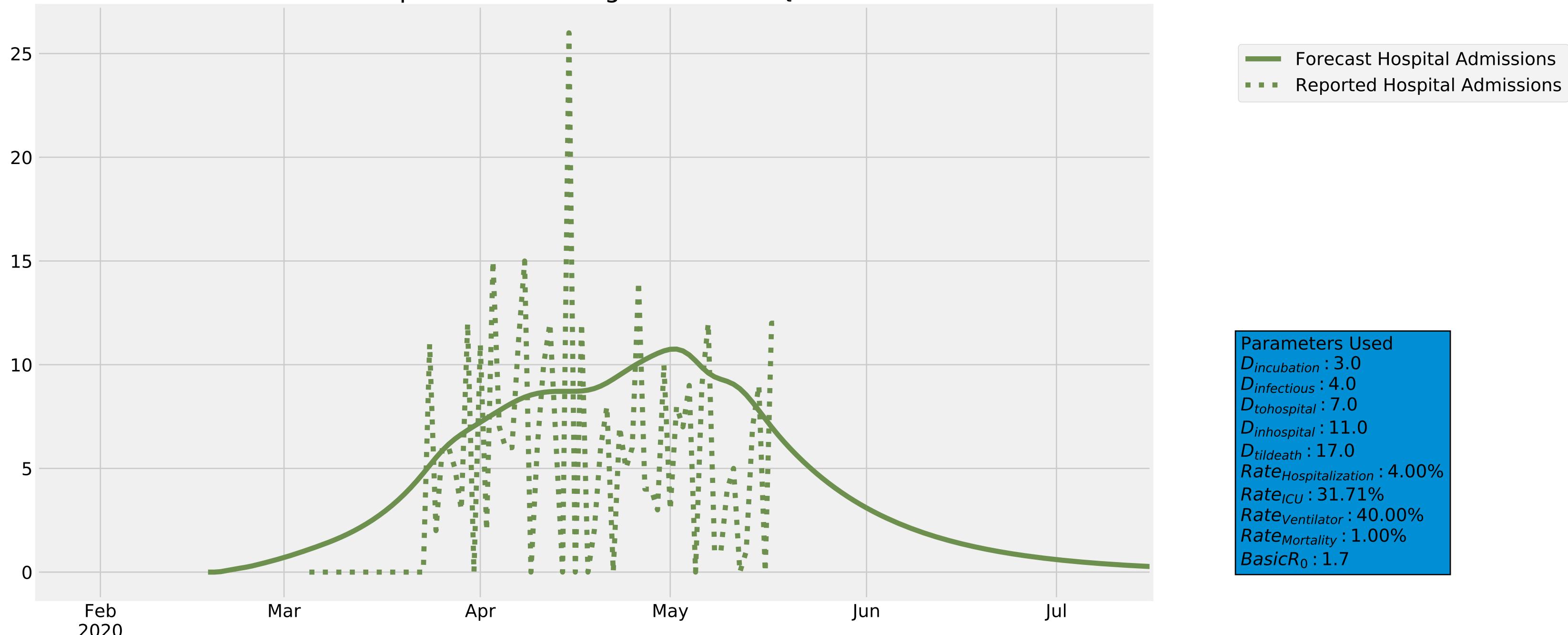
Daily Exposures Forecast New Hampshire: No Change in Future R_t Scenario



Parameters Used

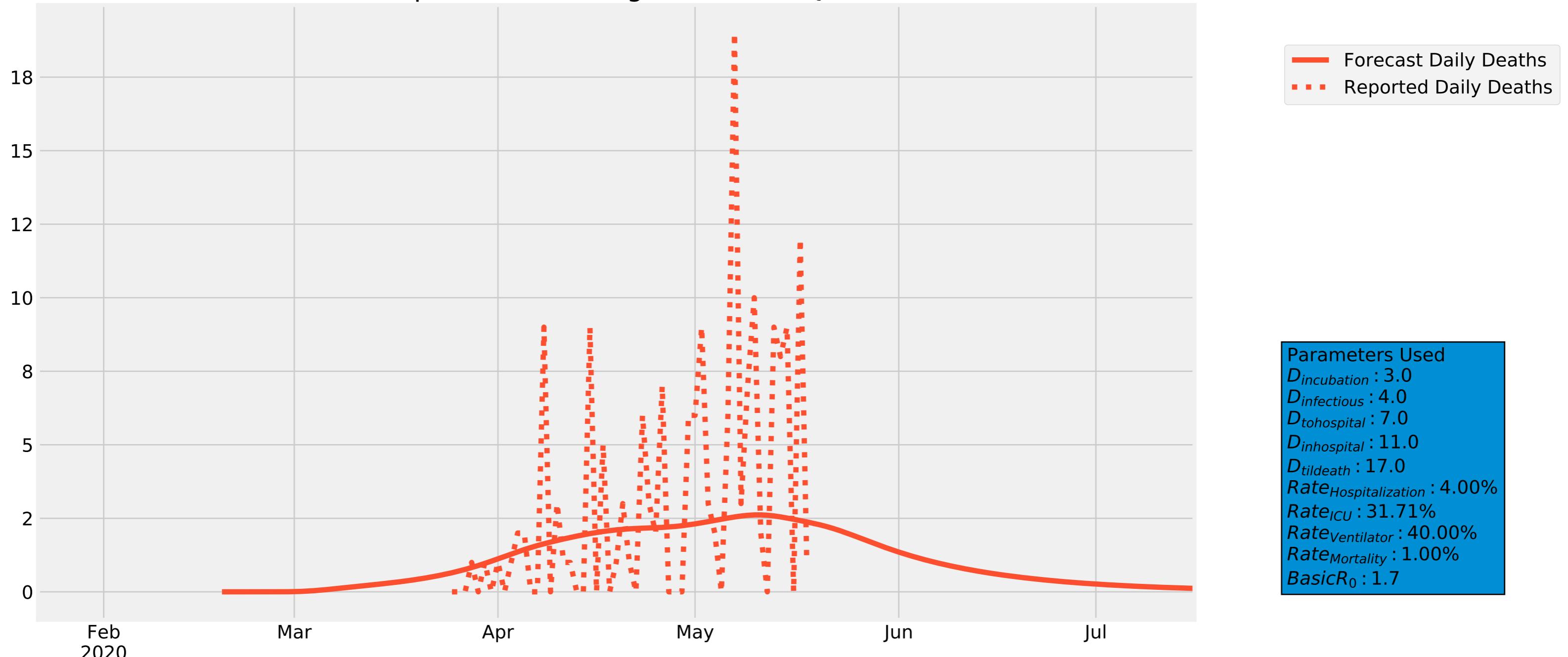
$D_{incubation}$:	3.0
$D_{infectious}$:	4.0
$D_{tohospital}$:	7.0
$D_{inhospital}$:	11.0
$D_{tildeath}$:	17.0
Rate _{Hospitalization} :	4.00%
Rate _{ICU} :	31.71%
Rate _{Ventilator} :	40.00%
Rate _{Mortality} :	1.00%
BasicR ₀ :	1.7

Daily Hospital Admissions Forecast New Hampshire: No Change in Future R_t Scenario



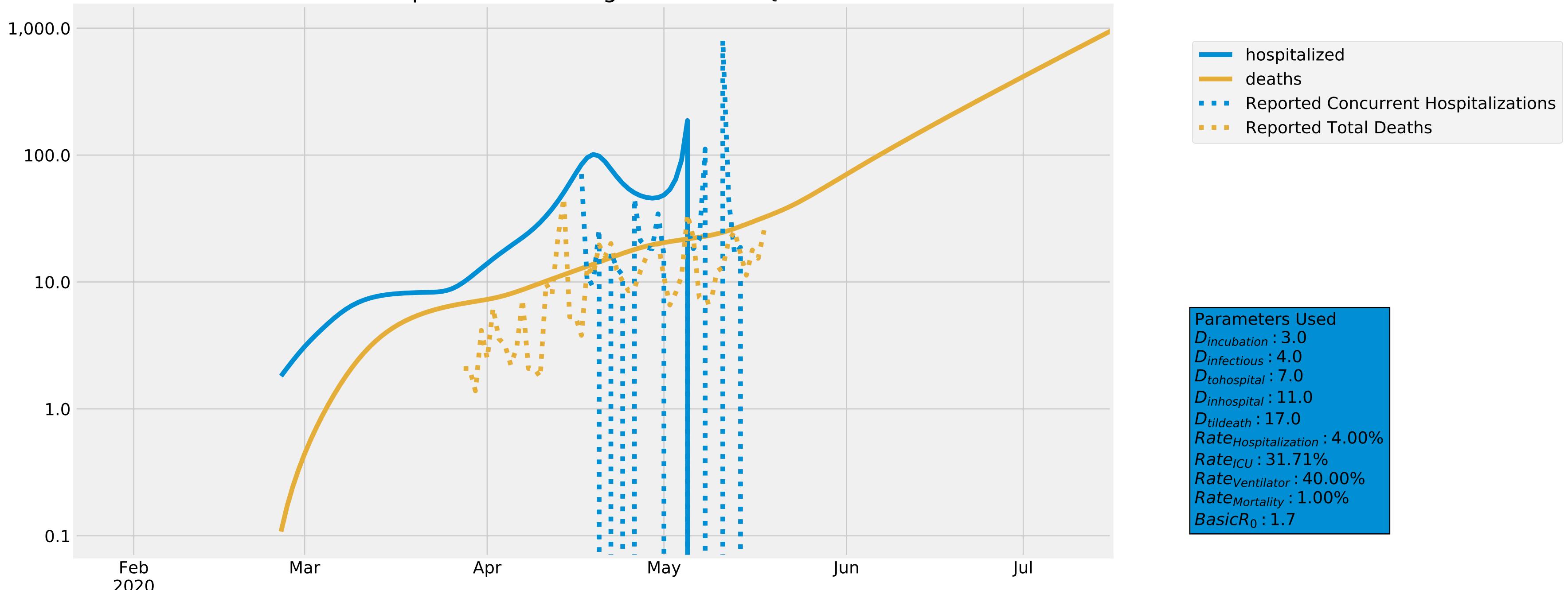
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Daily Deaths Forecast New Hampshire: No Change in Future R_t Scenario



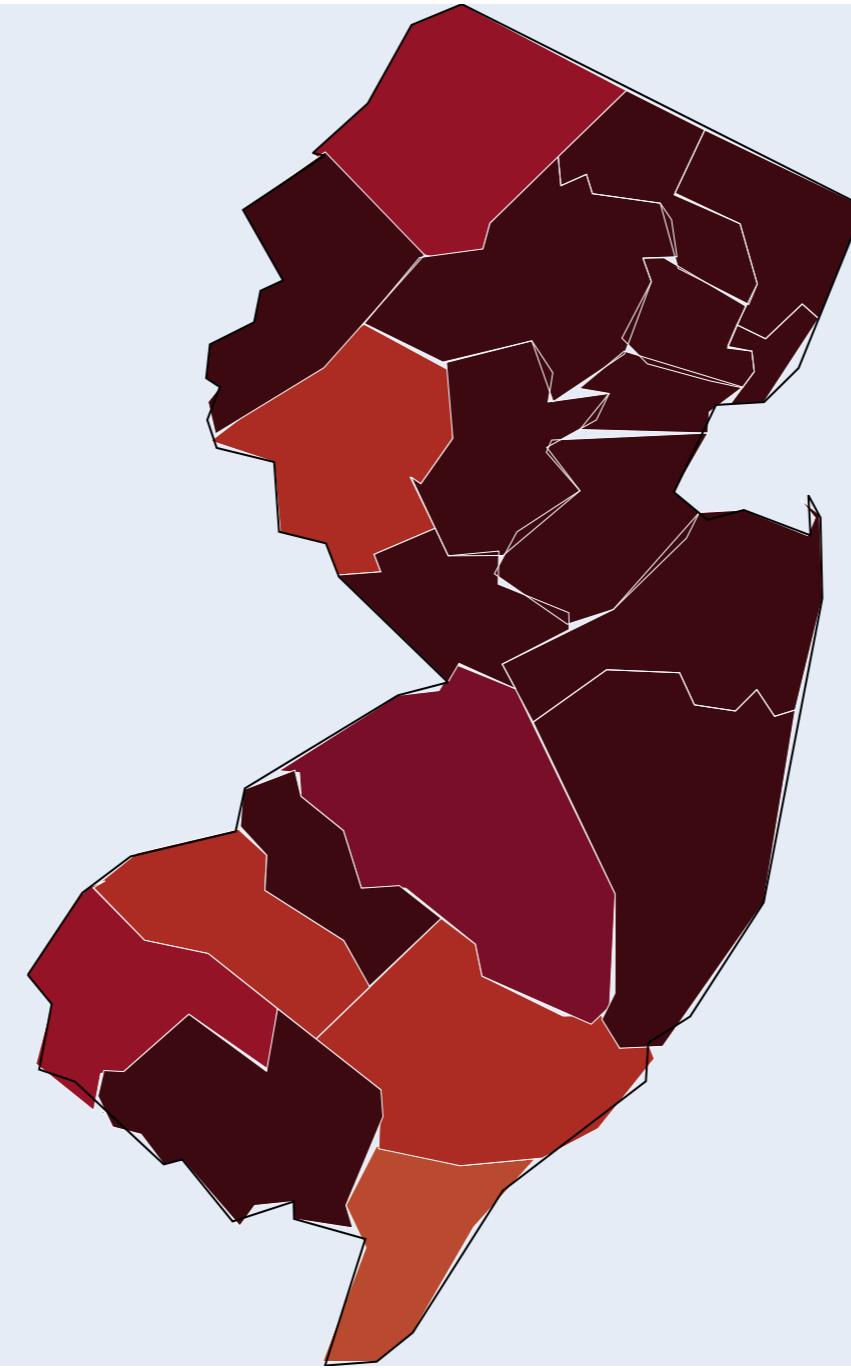
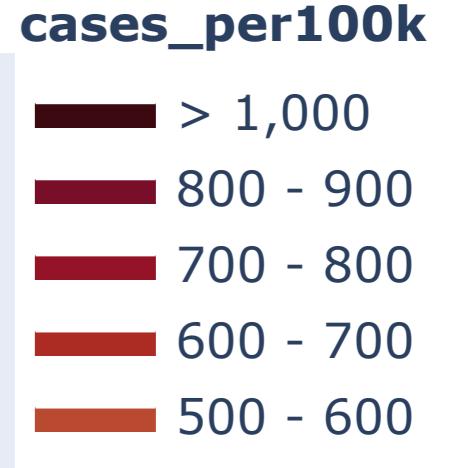
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast New Hampshire: No Change in Future R_t Scenario

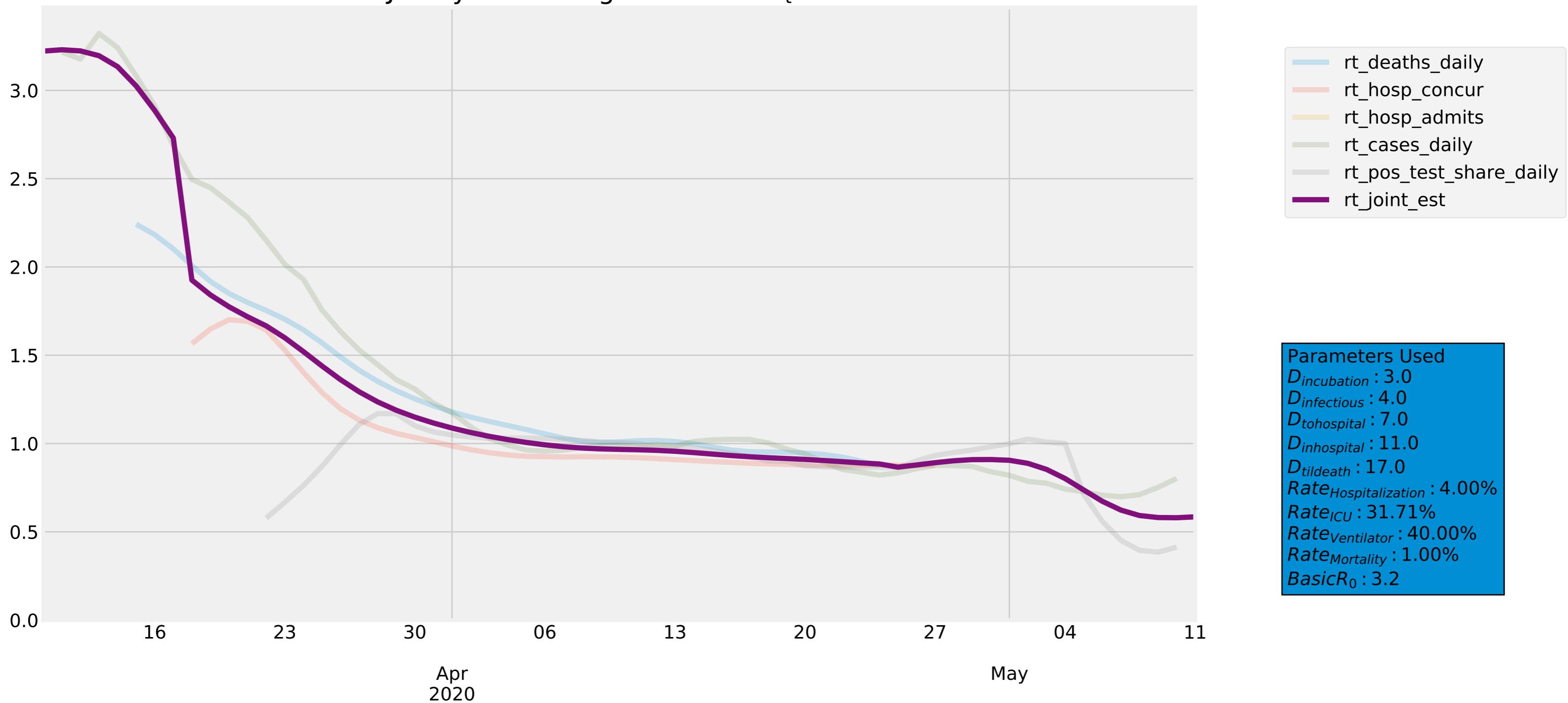


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

New Jersey: COVID-19 Cases Per 100k Residents



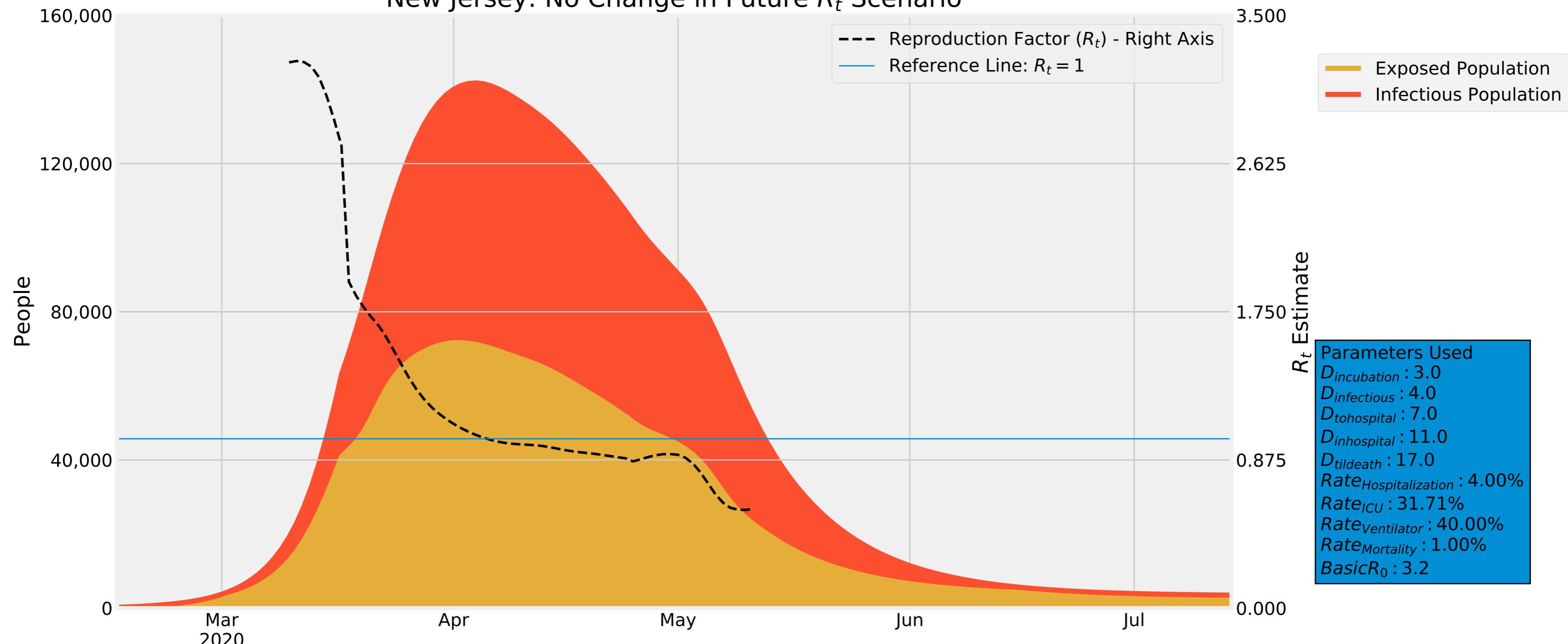
Reproduction Rate (R_t) Estimates New Jersey: No Change in Future R_t Scenario



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

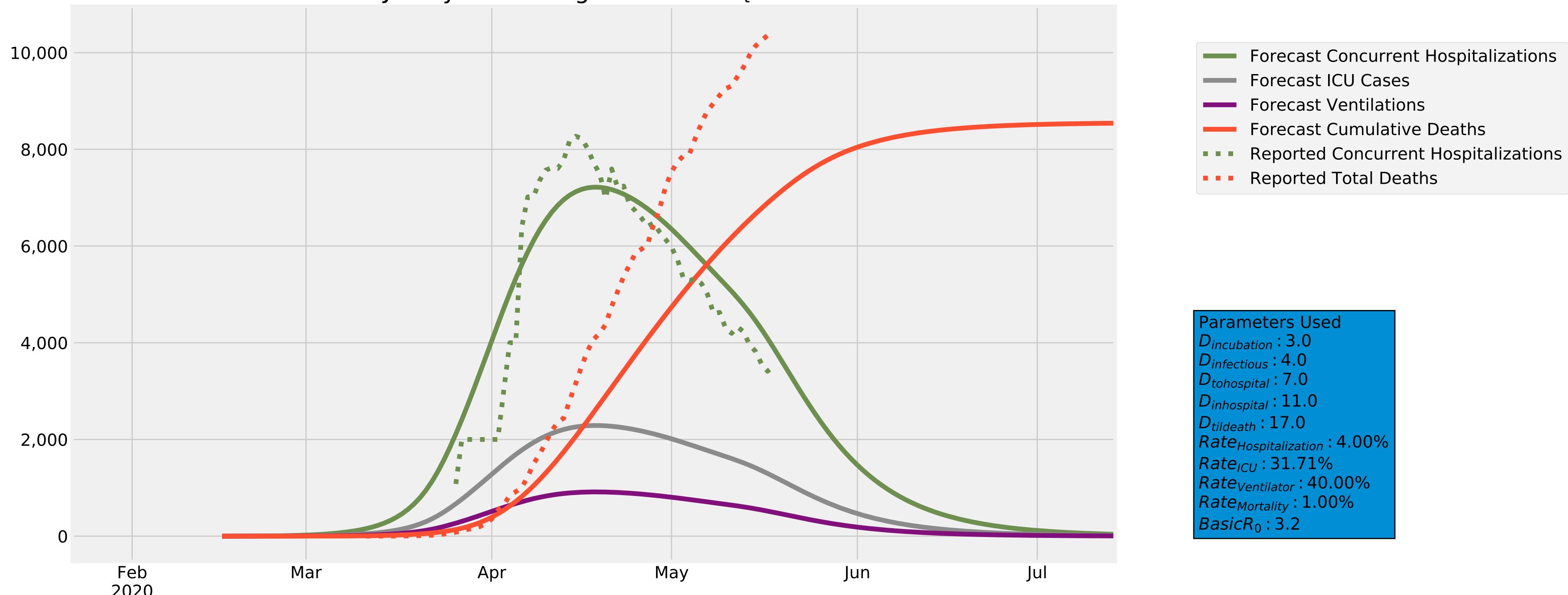
Simultaneous Infections Forecast

New Jersey: No Change in Future R_t Scenario



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

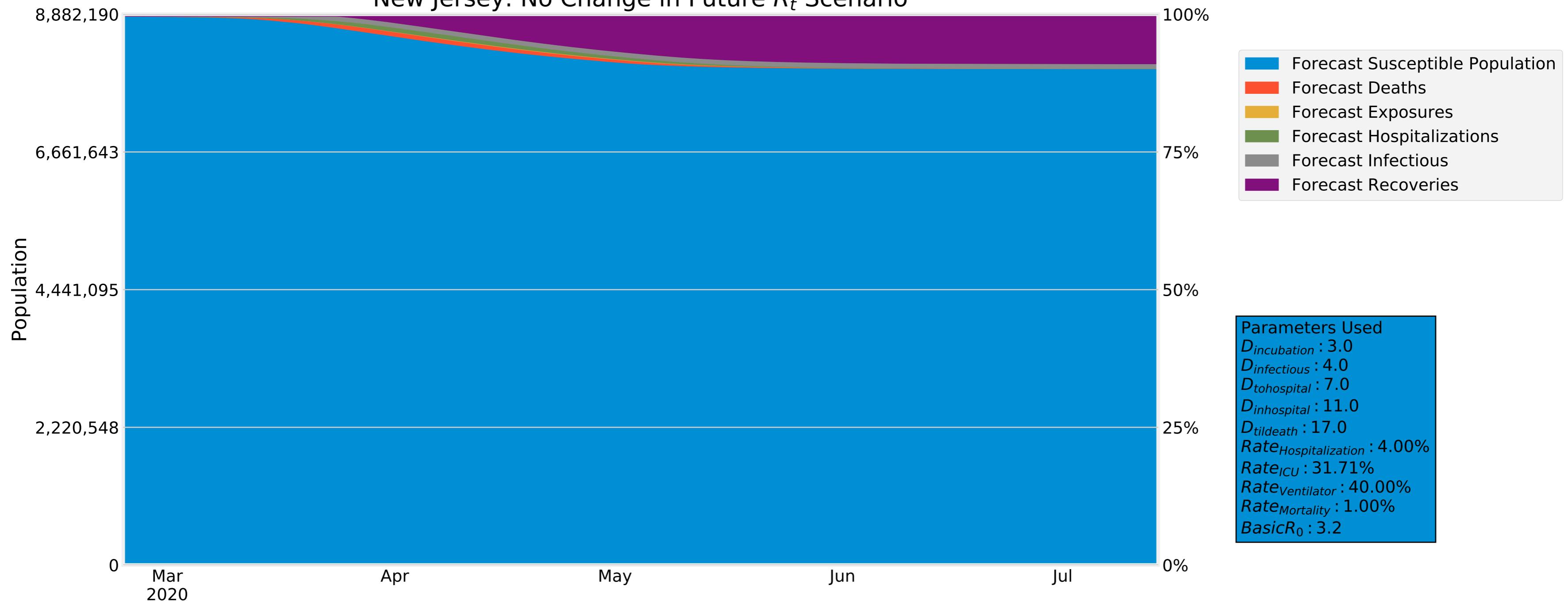
Hospitalization and Deaths Forecast New Jersey: No Change in Future R_t Scenario



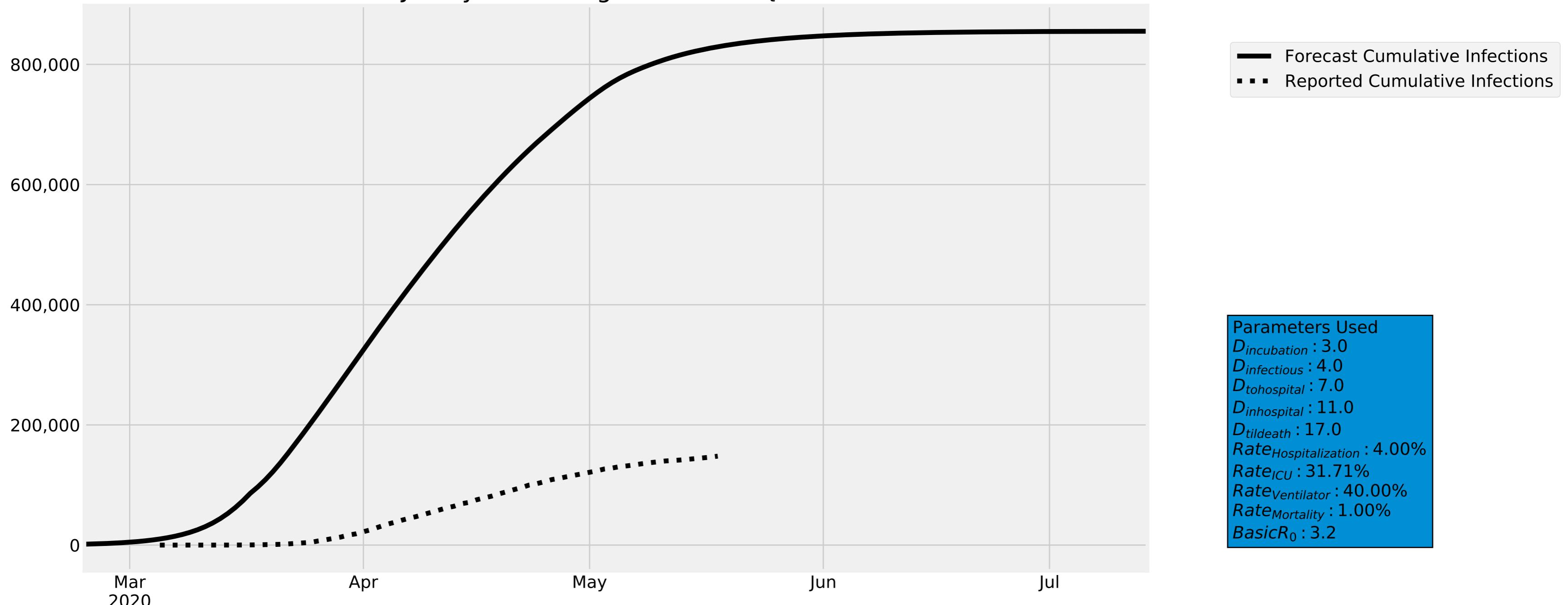
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

New Jersey: No Change in Future R_t Scenario



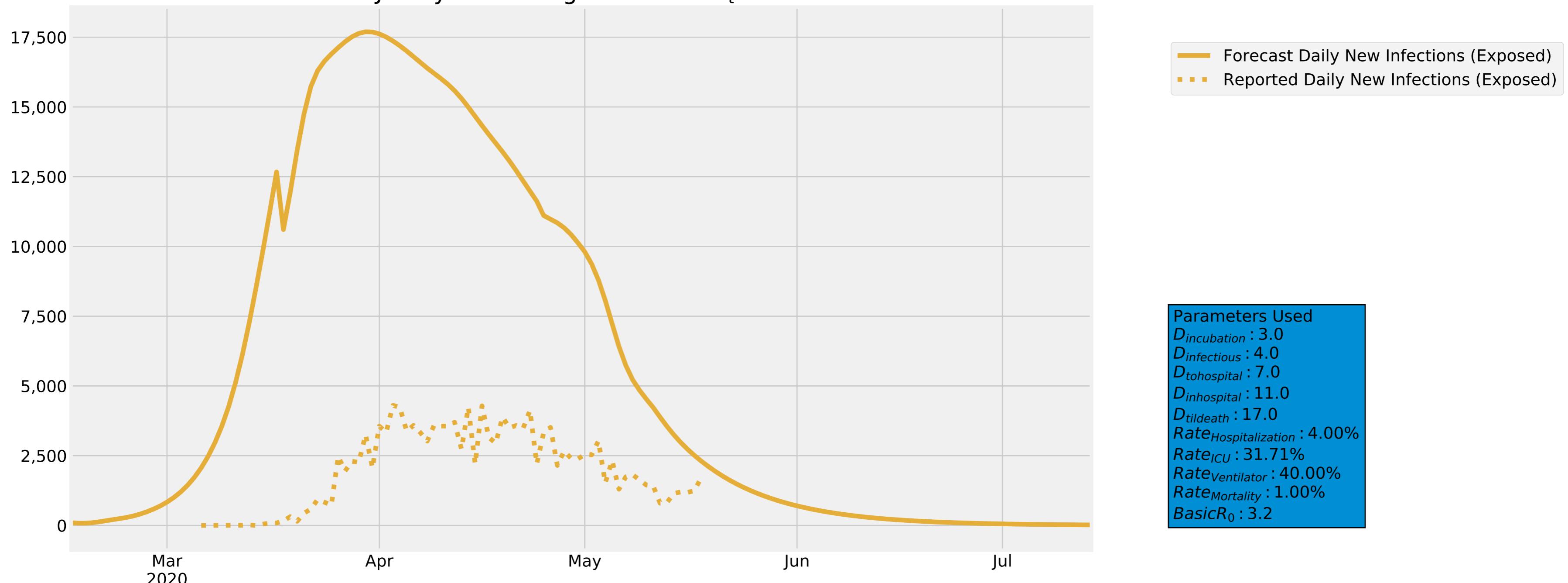
Cumulative Infections Forecast New Jersey: No Change in Future R_t Scenario



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%
- $BasicR_0$: 3.2

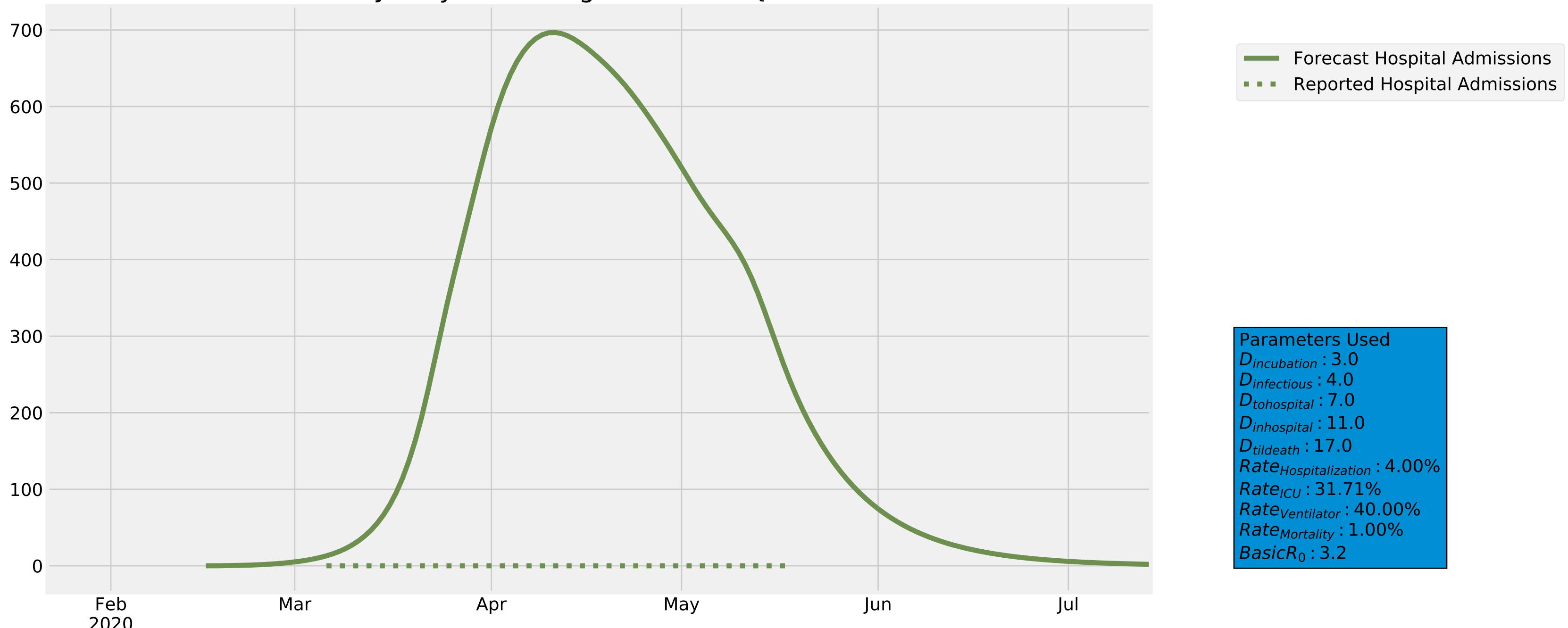
Daily Exposures Forecast New Jersey: No Change in Future R_t Scenario



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%
 $BasicR_0$: 3.2

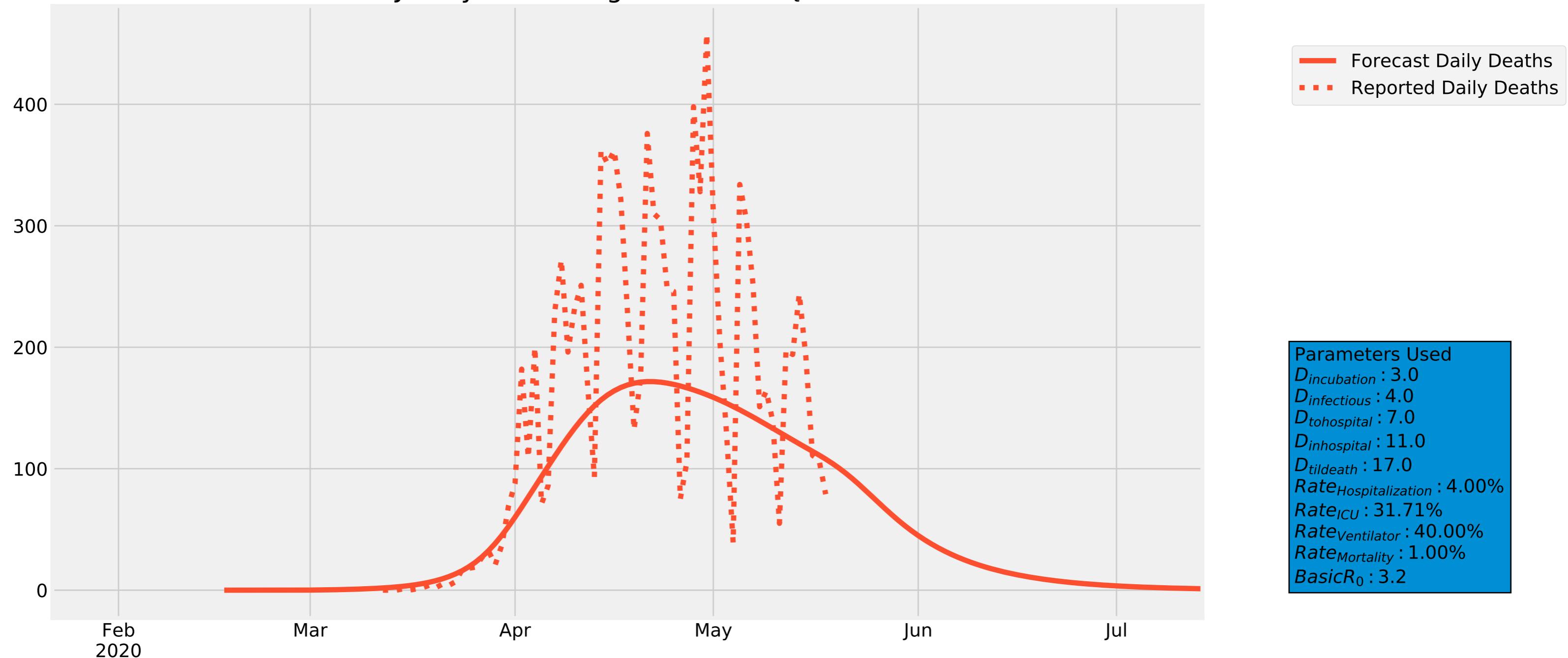
Daily Hospital Admissions Forecast New Jersey: No Change in Future R_t Scenario



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%
$BasicR_0$: 3.2

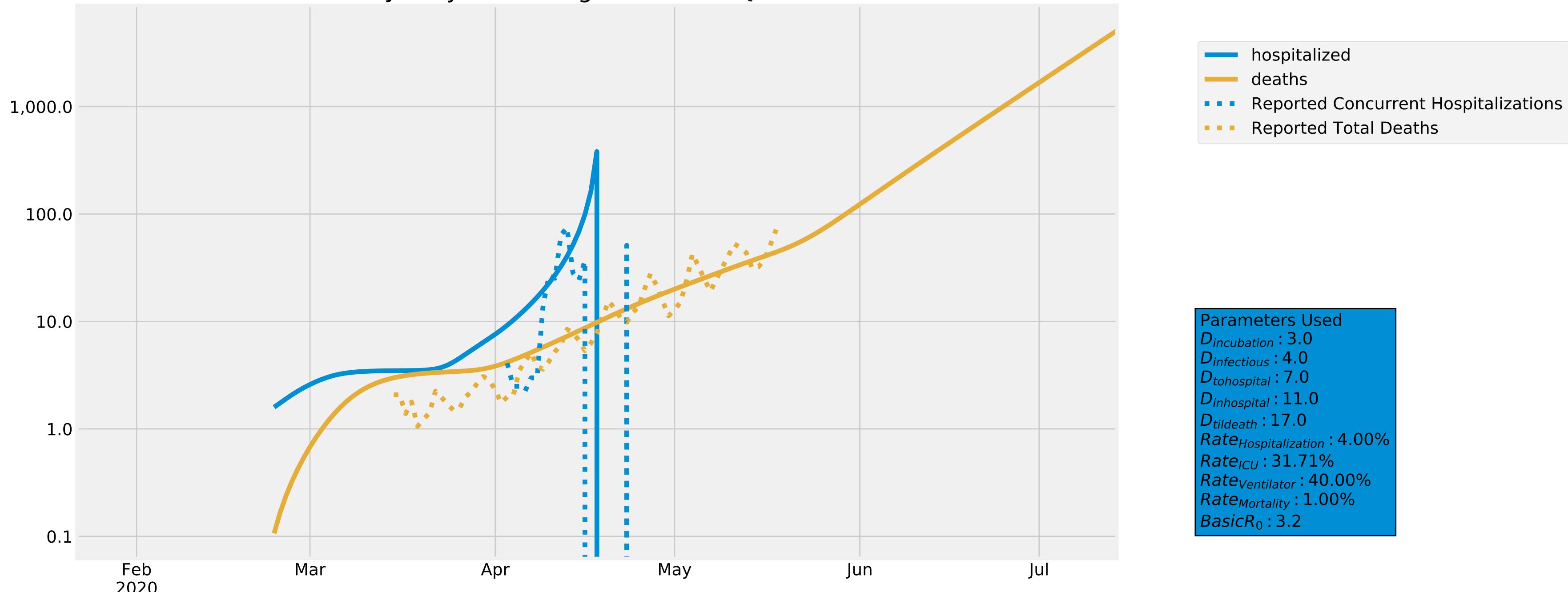
Daily Deaths Forecast New Jersey: No Change in Future R_t Scenario



Parameters Used

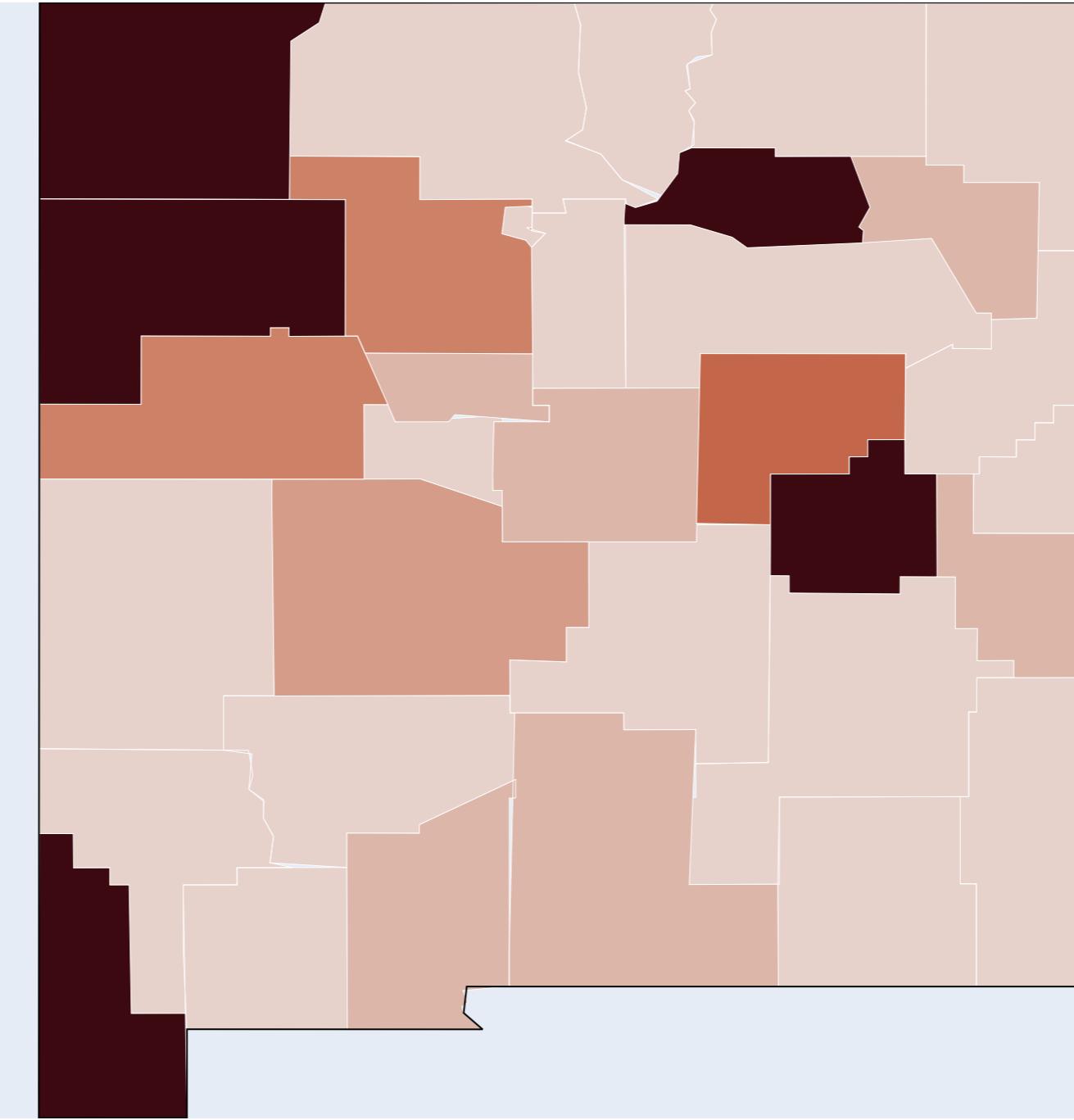
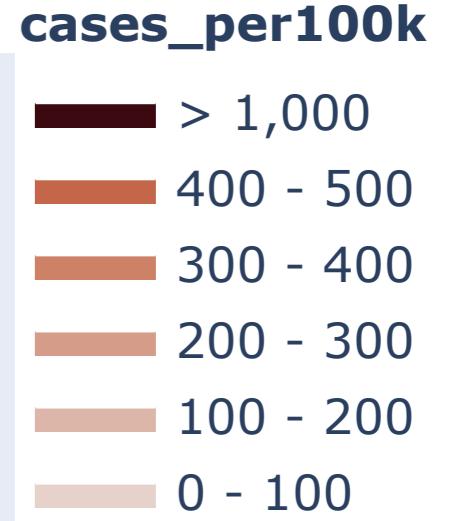
- $D_{incubation}$: 3.0
- $D_{infectious}$: 4.0
- $D_{tohospital}$: 7.0
- $D_{inhospital}$: 11.0
- $D_{tildeath}$: 17.0
- $Rate_{Hospitalization}$: 4.00%
- $Rate_{ICU}$: 31.71%
- $Rate_{Ventilator}$: 40.00%
- $Rate_{Mortality}$: 1.00%
- $BasicR_0$: 3.2

Doubling Rate Forecast New Jersey: No Change in Future R_t Scenario



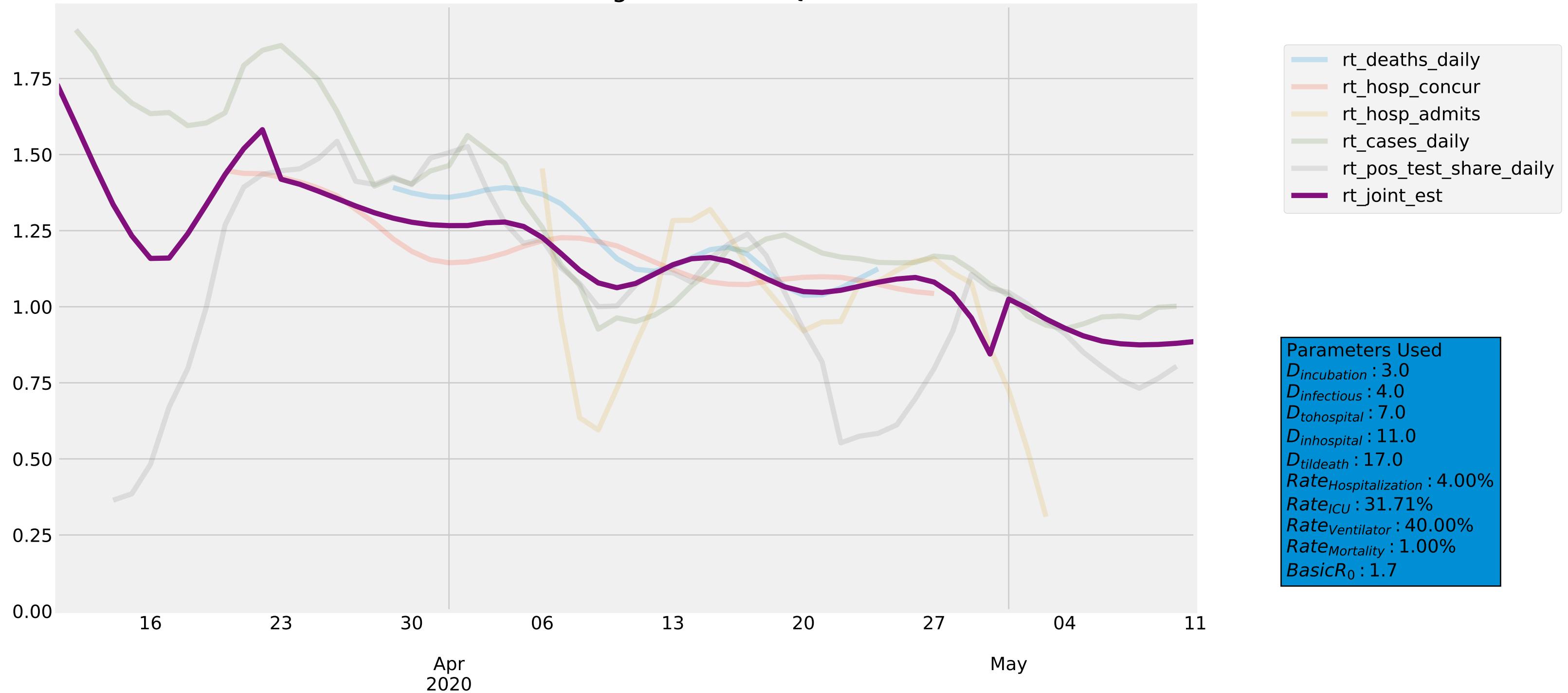
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

New Mexico: COVID-19 Cases Per 100k Residents



Reproduction Rate (R_t) Estimates

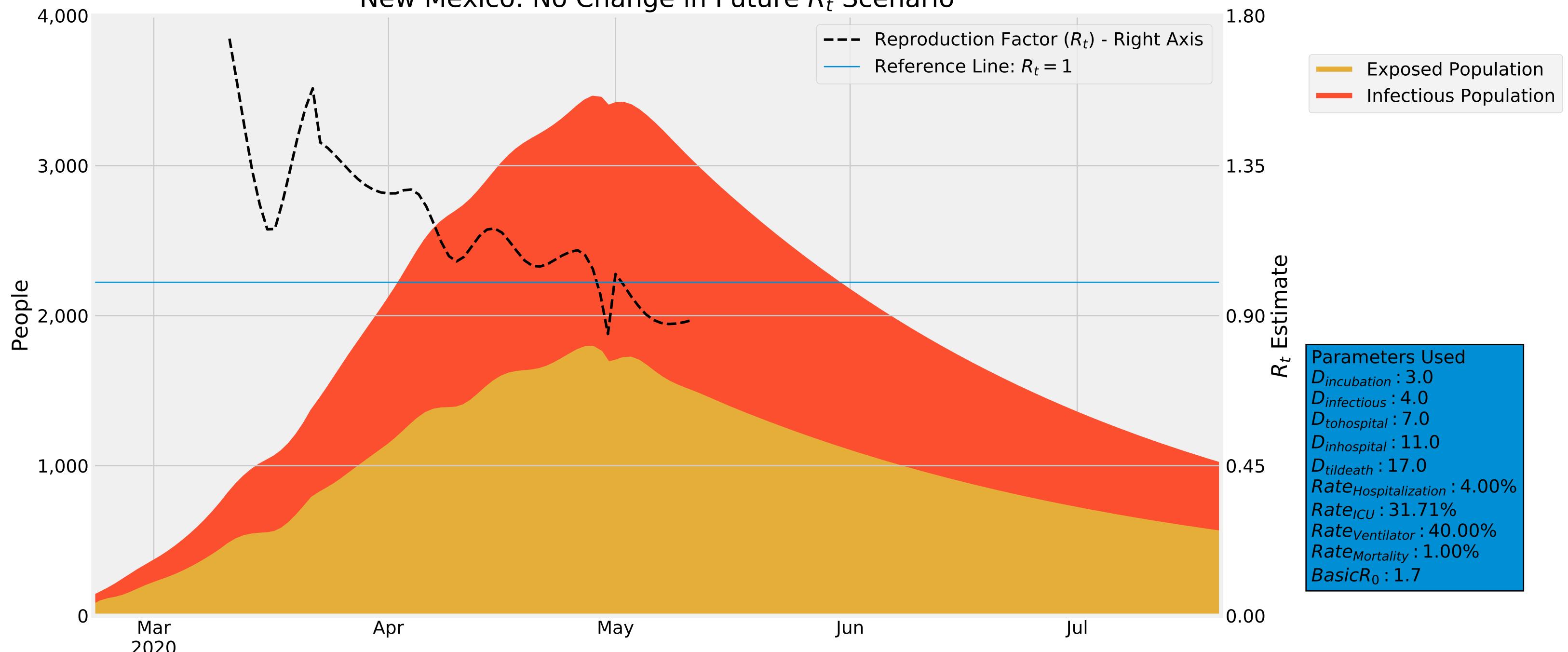
New Mexico: No Change in Future R_t Scenario



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

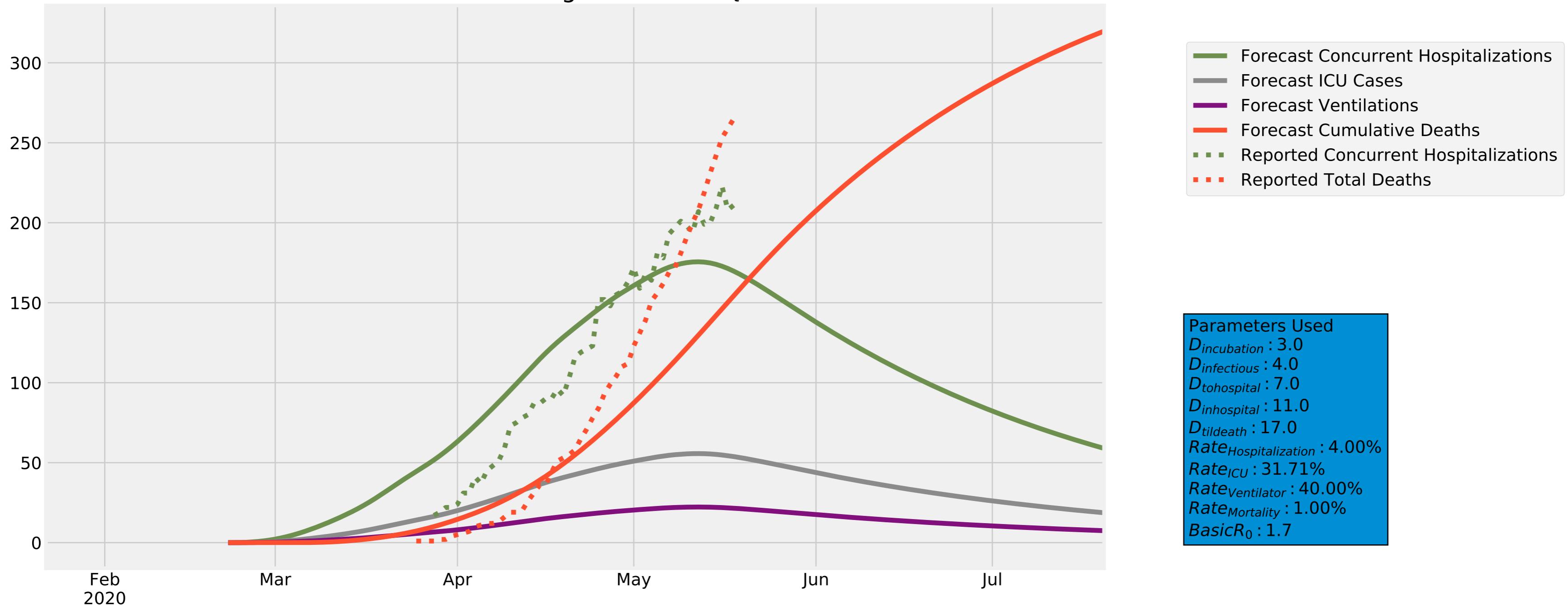
Simultaneous Infections Forecast

New Mexico: No Change in Future R_t Scenario



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

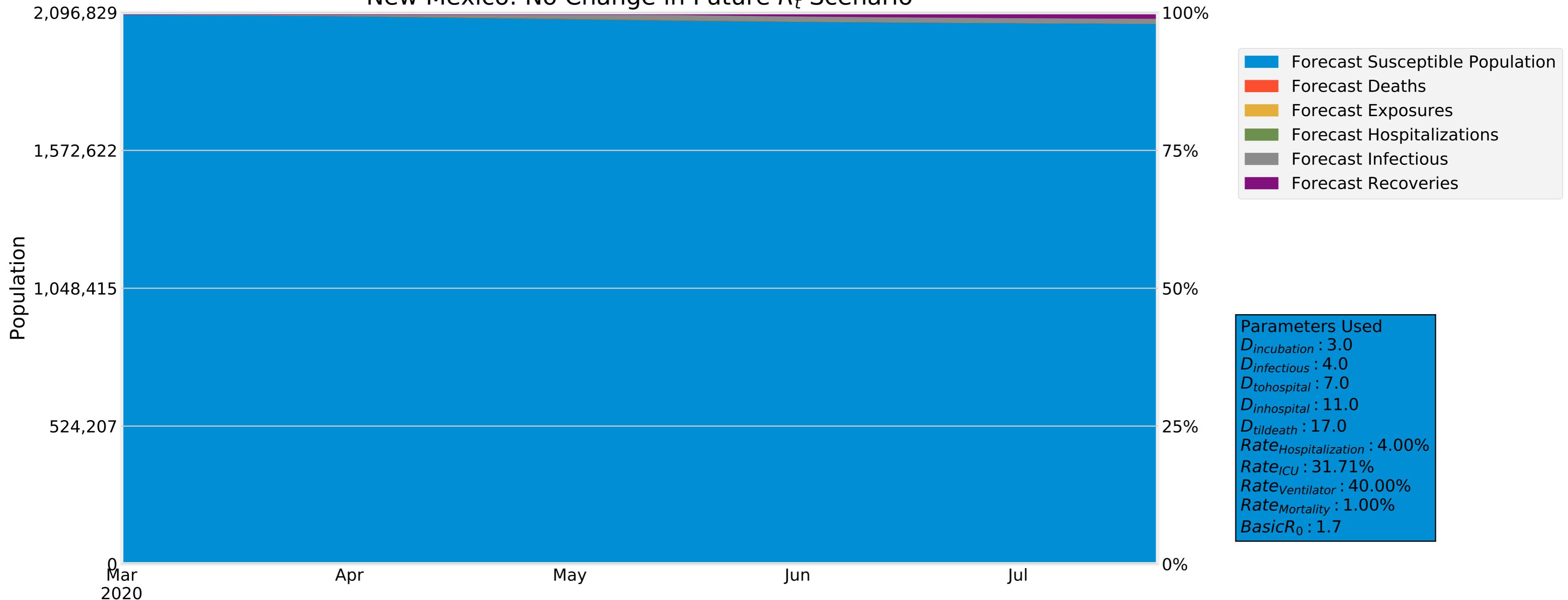
Hospitalization and Deaths Forecast New Mexico: No Change in Future R_t Scenario



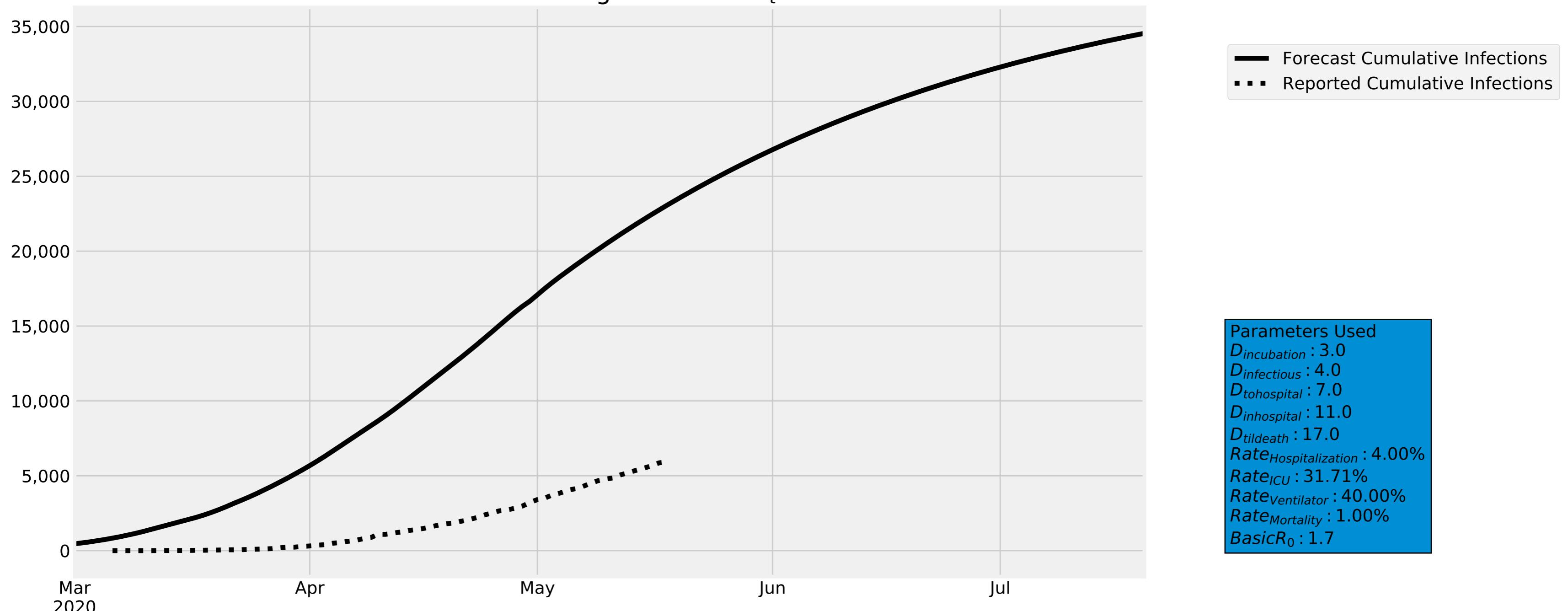
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

New Mexico: No Change in Future R_t Scenario



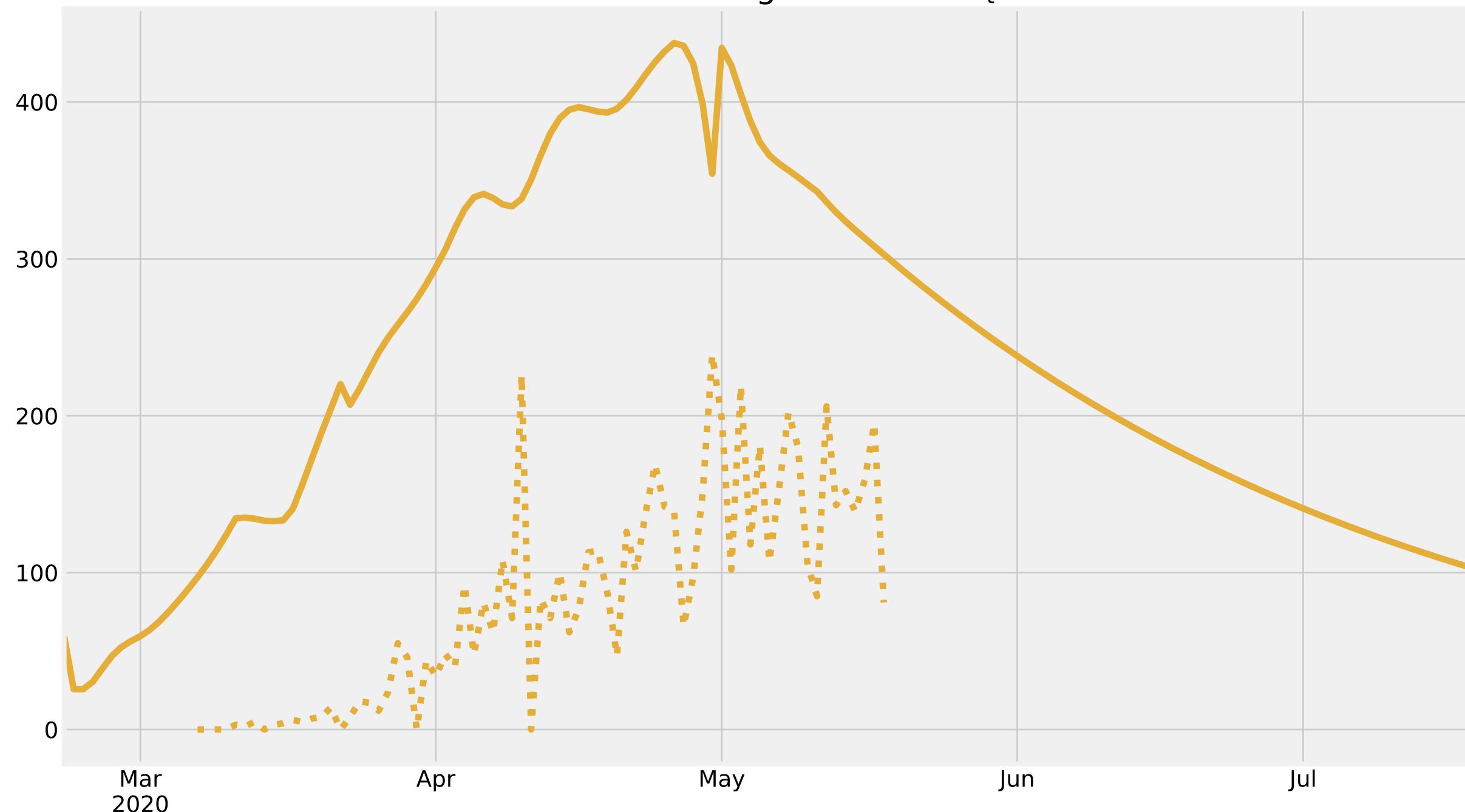
Cumulative Infections Forecast New Mexico: No Change in Future R_t Scenario



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%
- $BasicR_0$: 1.7

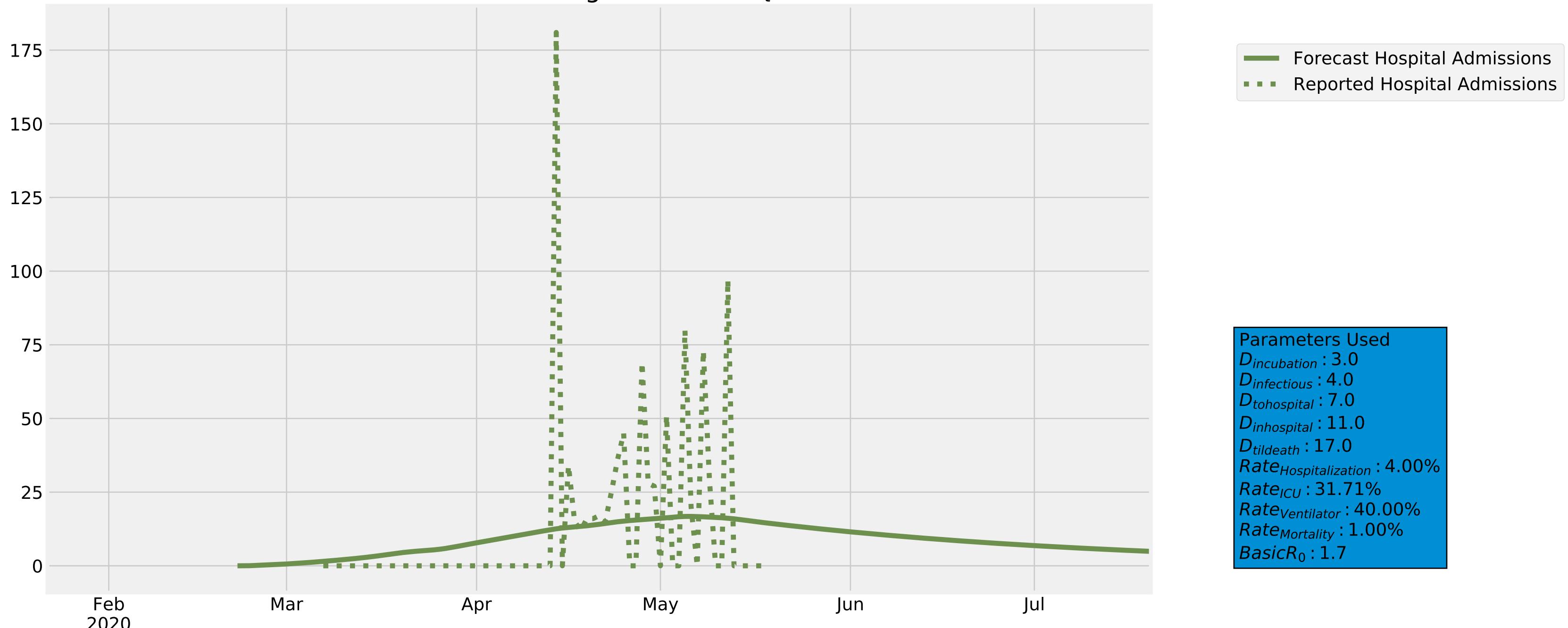
Daily Exposures Forecast New Mexico: No Change in Future R_t Scenario



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%
Basic R_0 :	1.7

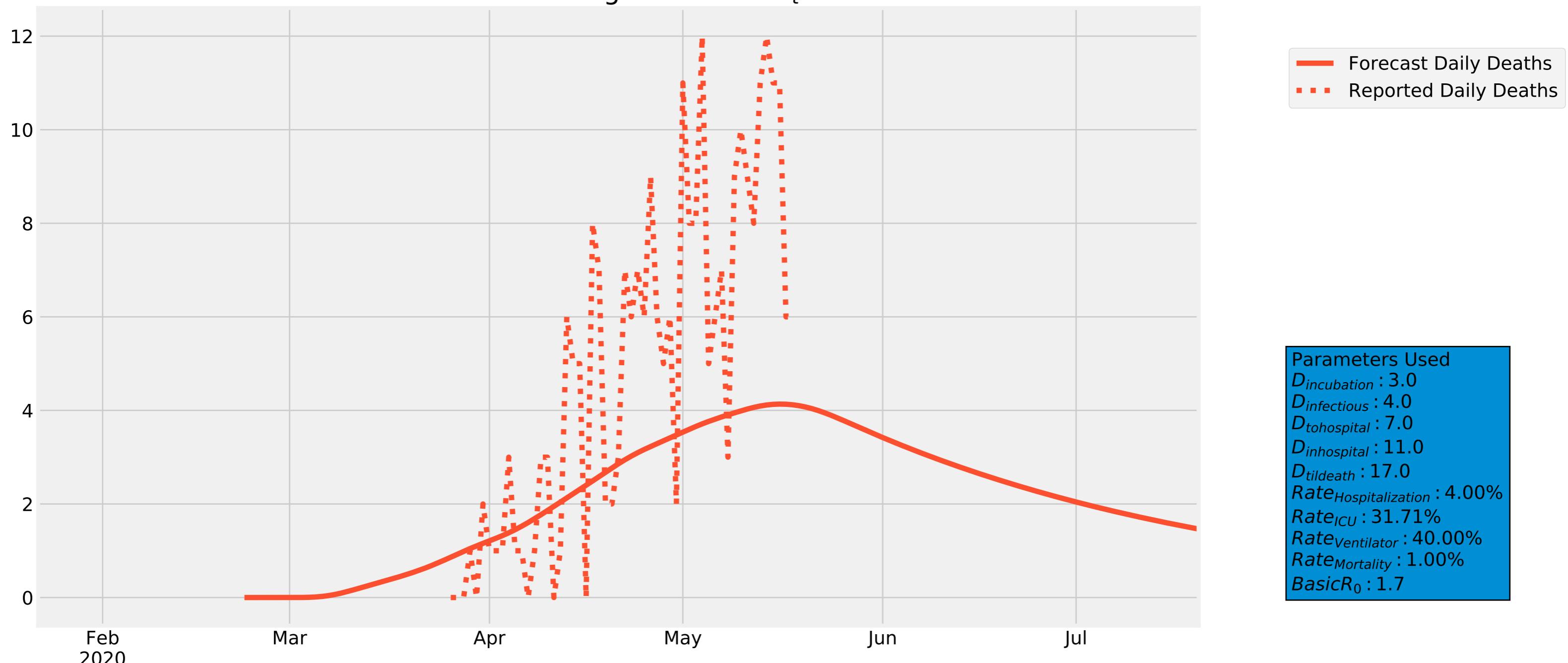
Daily Hospital Admissions Forecast New Mexico: No Change in Future R_t Scenario



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

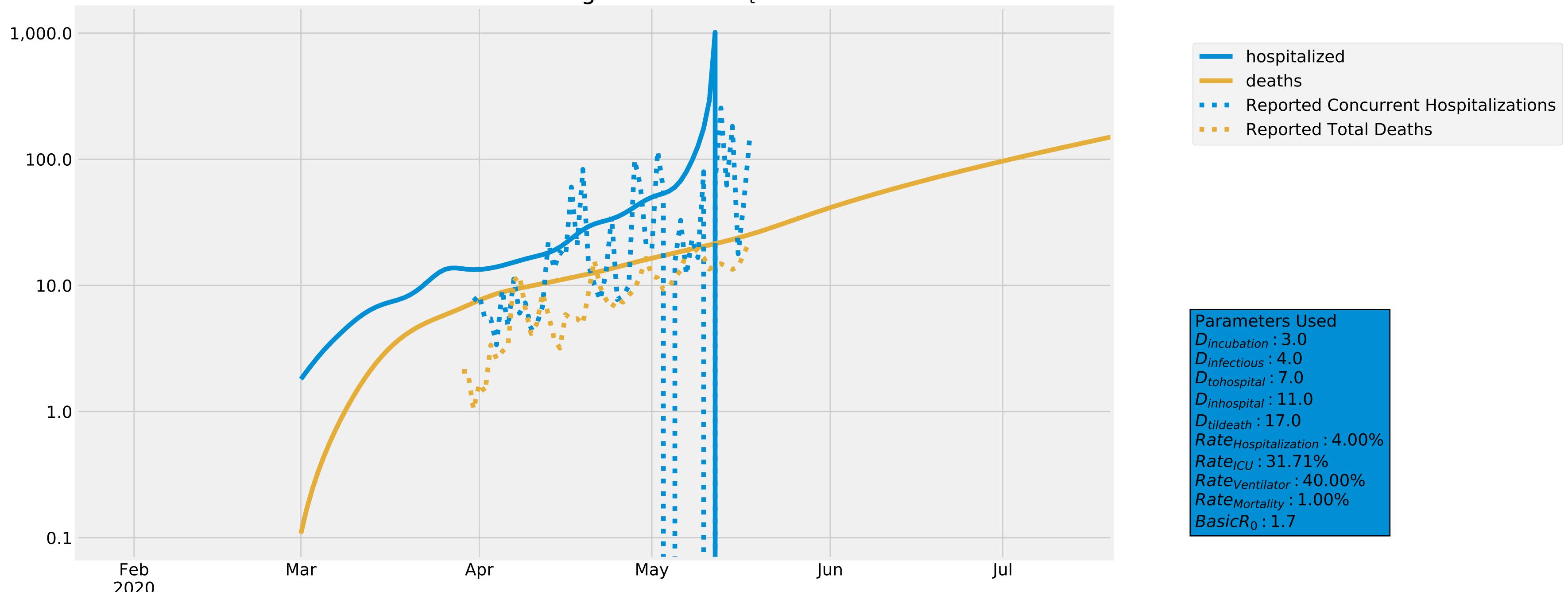
Daily Deaths Forecast

New Mexico: No Change in Future R_t Scenario



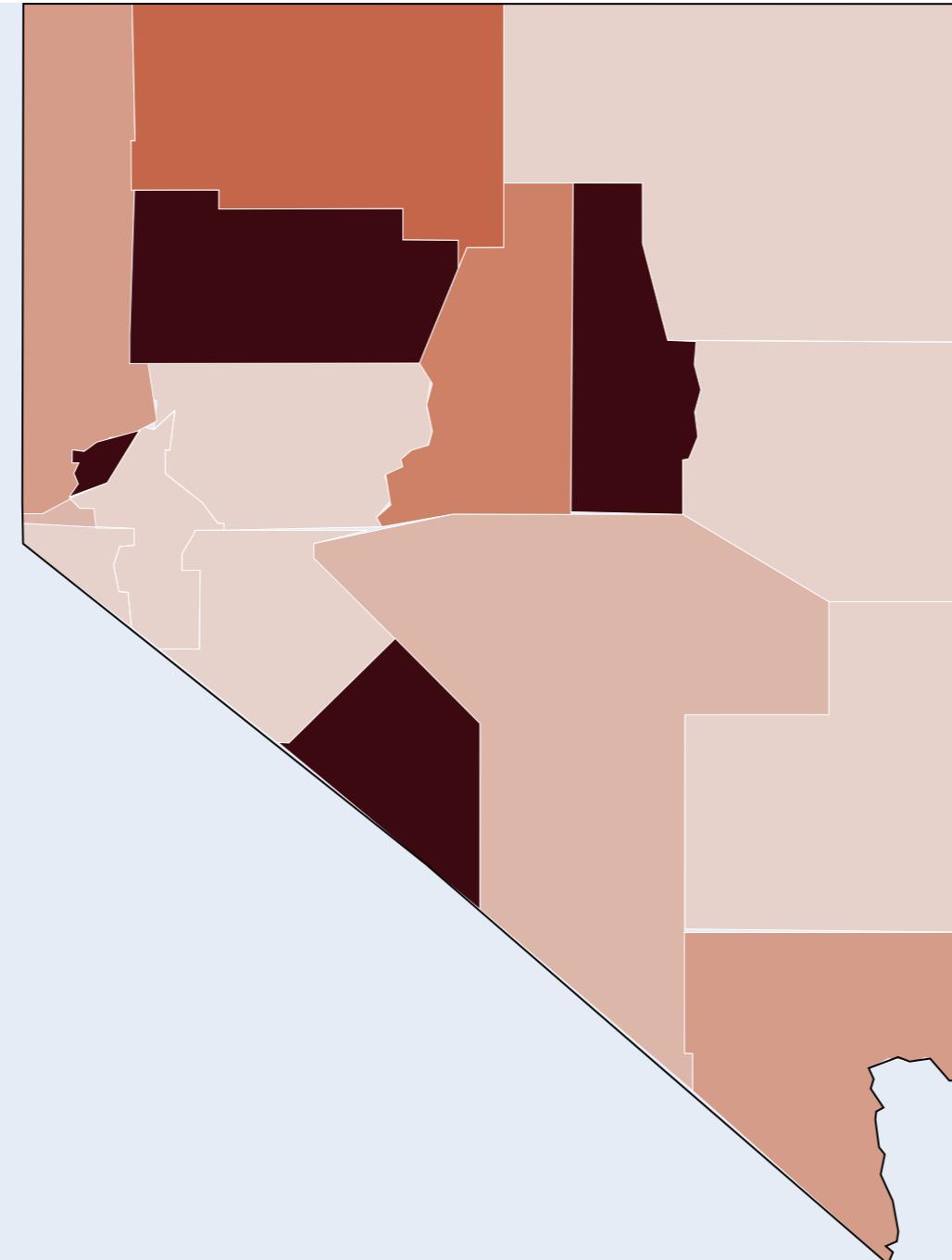
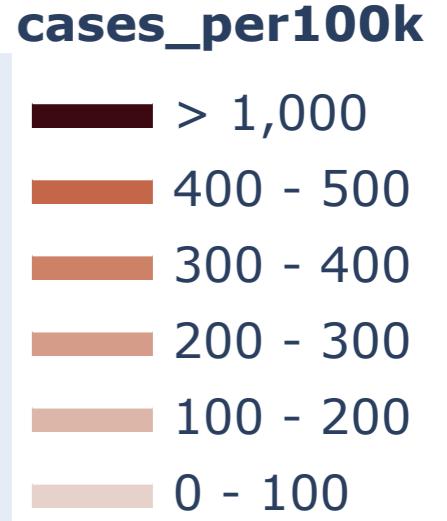
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast New Mexico: No Change in Future R_t Scenario



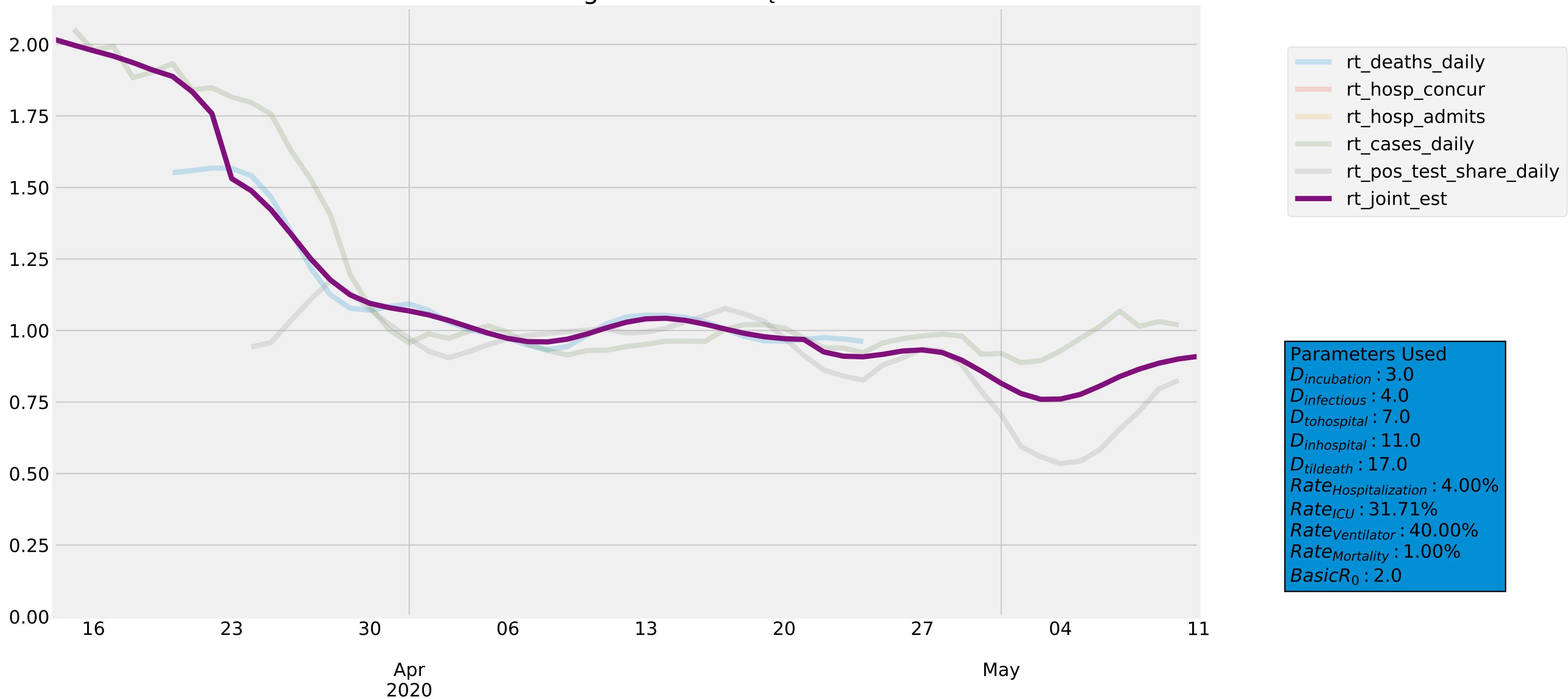
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Nevada: COVID-19 Cases Per 100k Residents



Reproduction Rate (R_t) Estimates

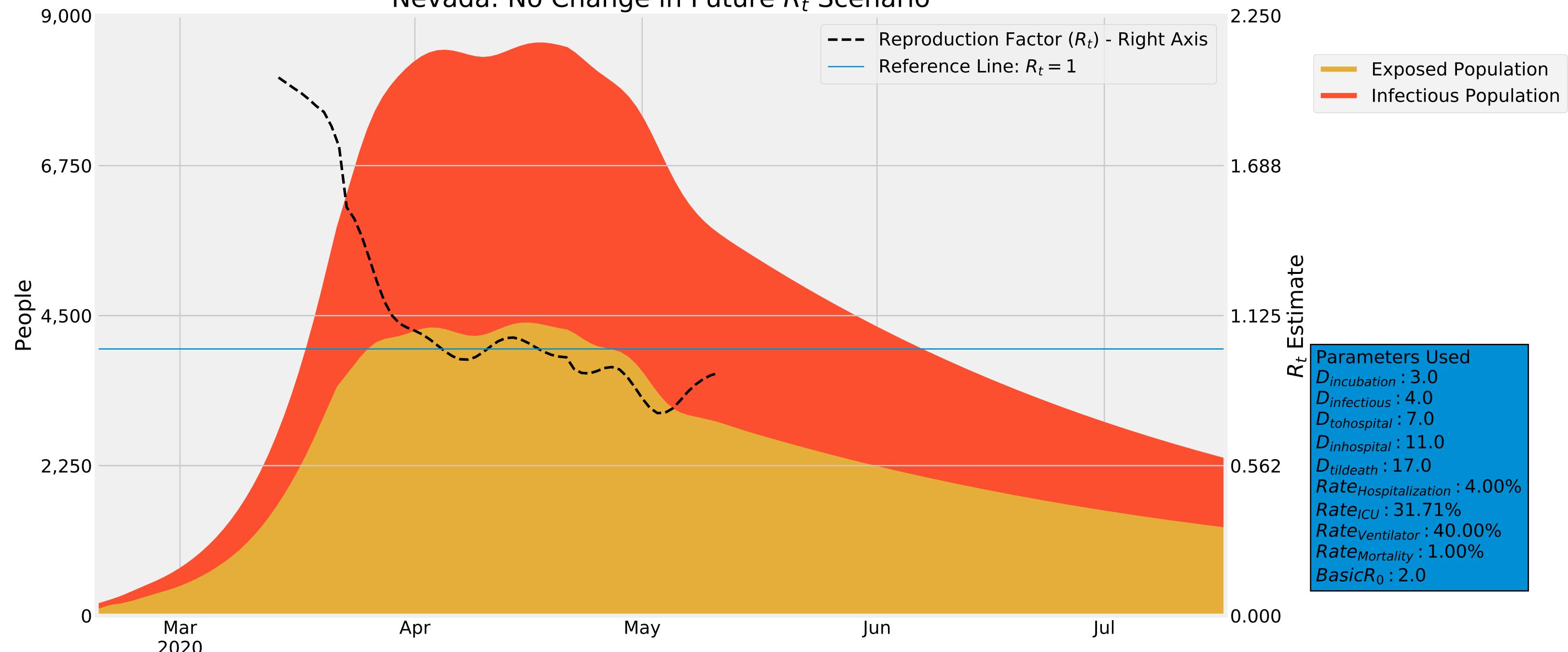
Nevada: No Change in Future R_t Scenario



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

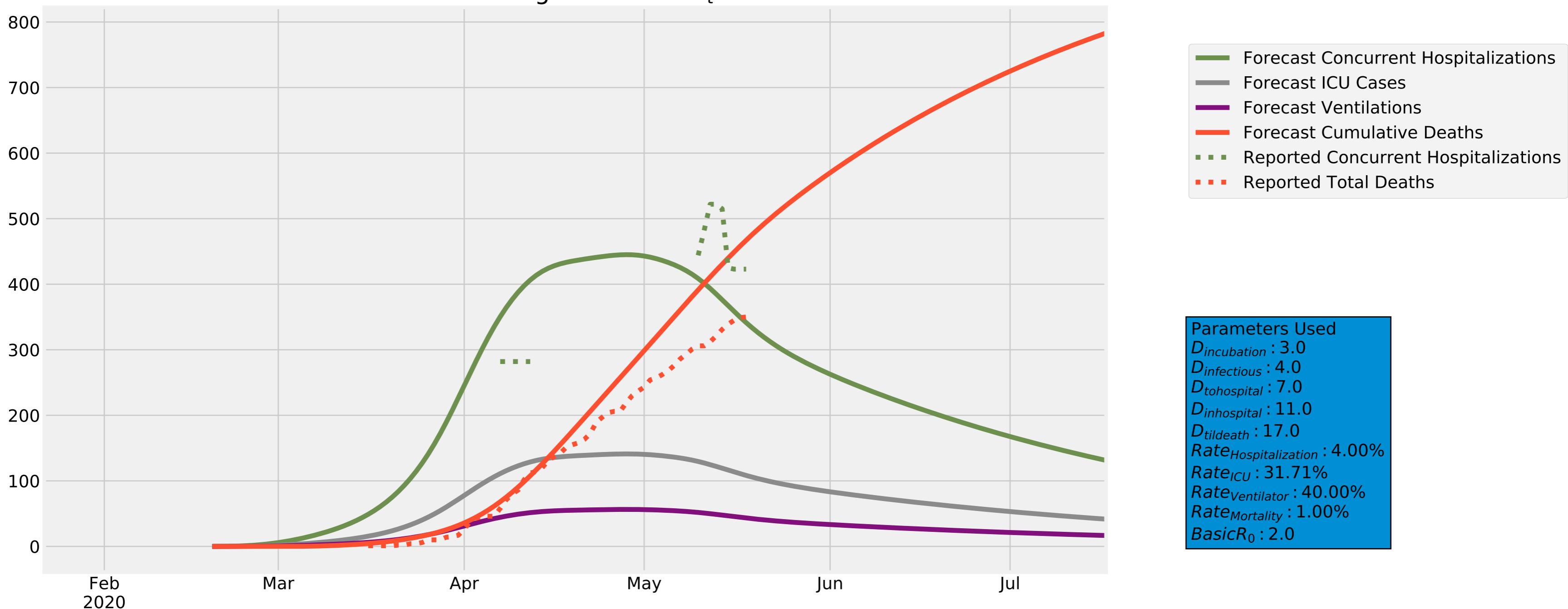
Simultaneous Infections Forecast

Nevada: No Change in Future R_t Scenario



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

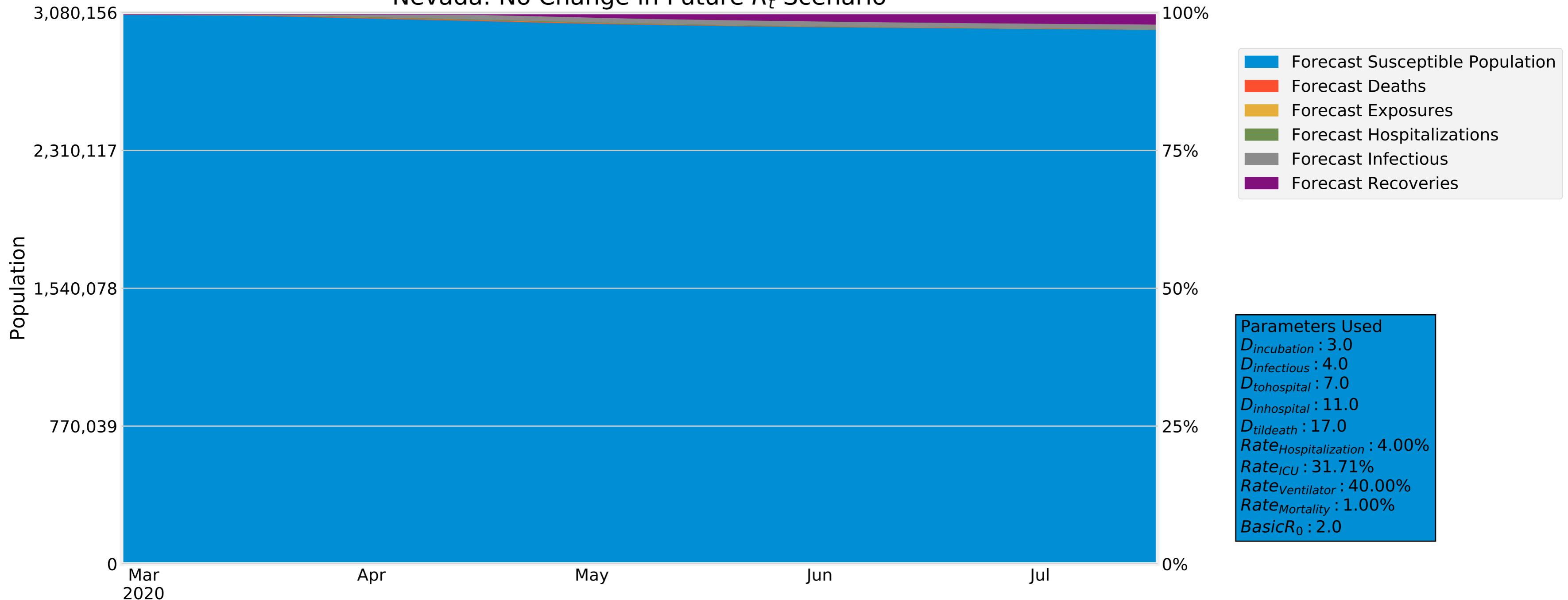
Hospitalization and Deaths Forecast Nevada: No Change in Future R_t Scenario



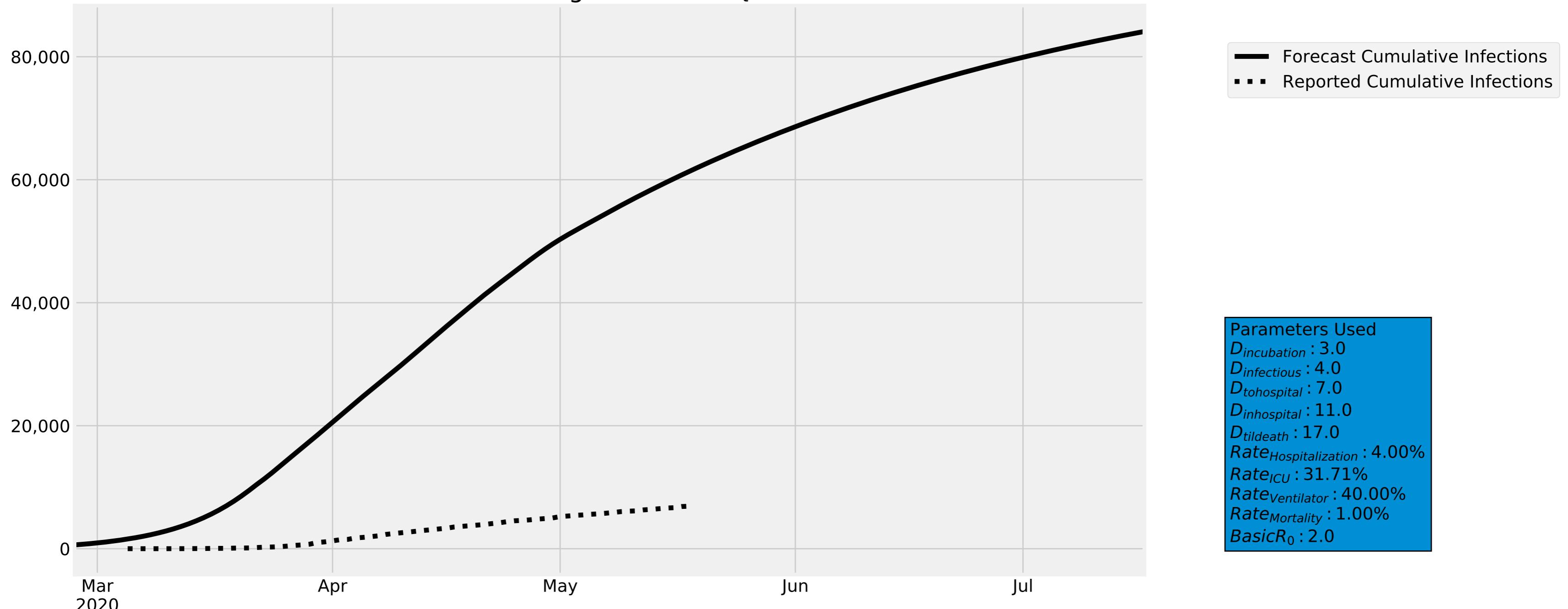
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

Nevada: No Change in Future R_t Scenario



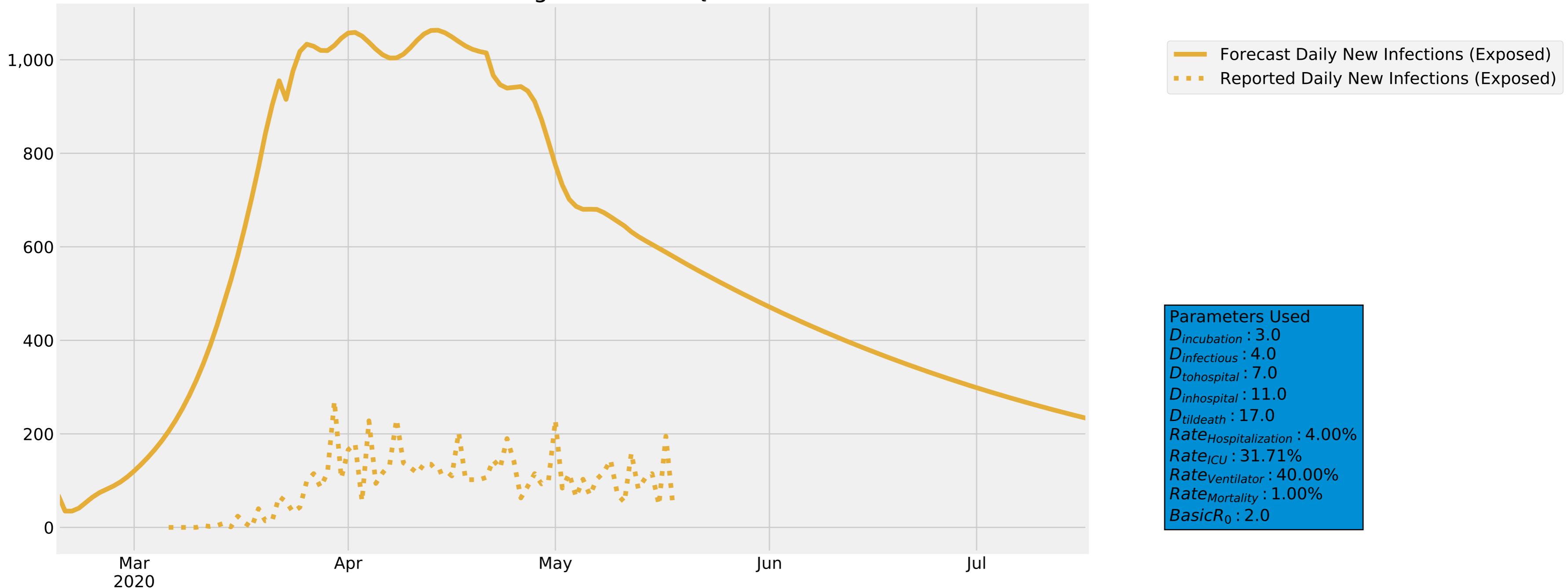
Cumulative Infections Forecast Nevada: No Change in Future R_t Scenario



Parameters Used

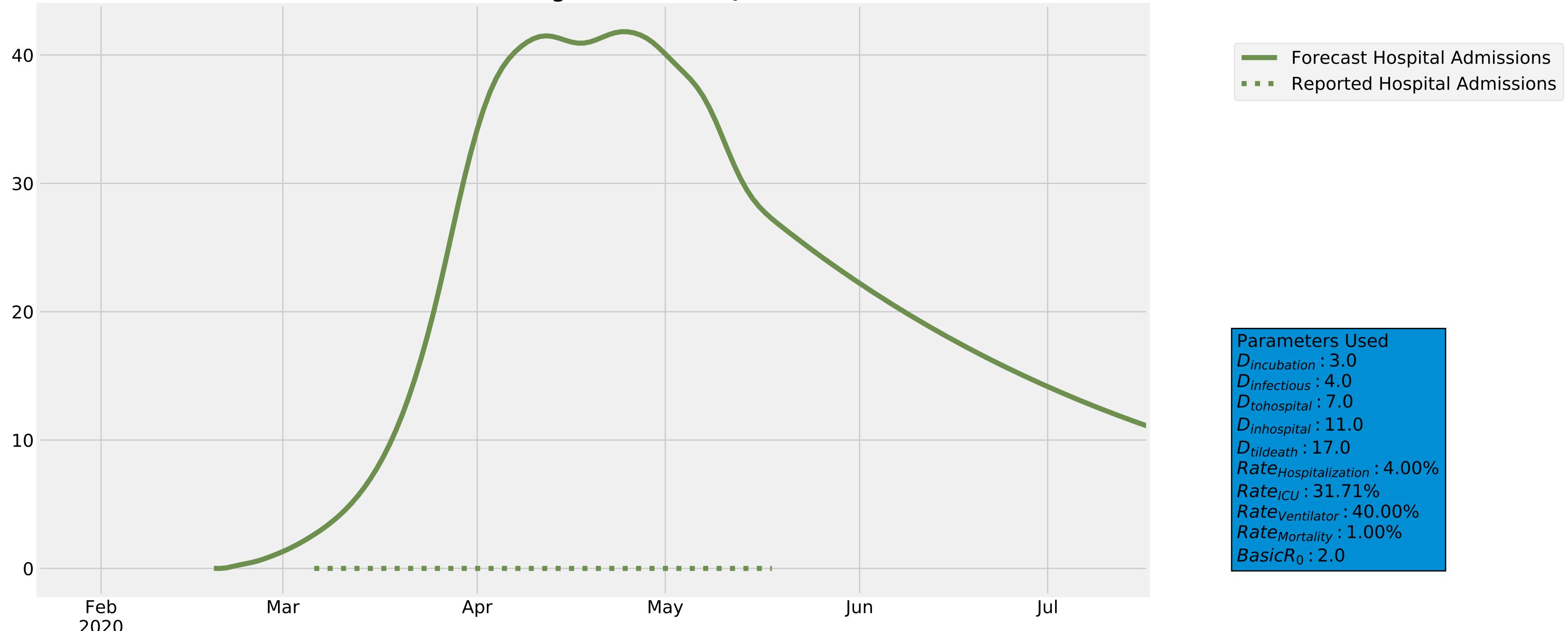
- $D_{incubation}$: 3.0
- $D_{infectious}$: 4.0
- $D_{tohospital}$: 7.0
- $D_{inhospital}$: 11.0
- $D_{tildeath}$: 17.0
- $Rate_{Hospitalization}$: 4.00%
- $Rate_{ICU}$: 31.71%
- $Rate_{Ventilator}$: 40.00%
- $Rate_{Mortality}$: 1.00%
- $BasicR_0$: 2.0

Daily Exposures Forecast Nevada: No Change in Future R_t Scenario



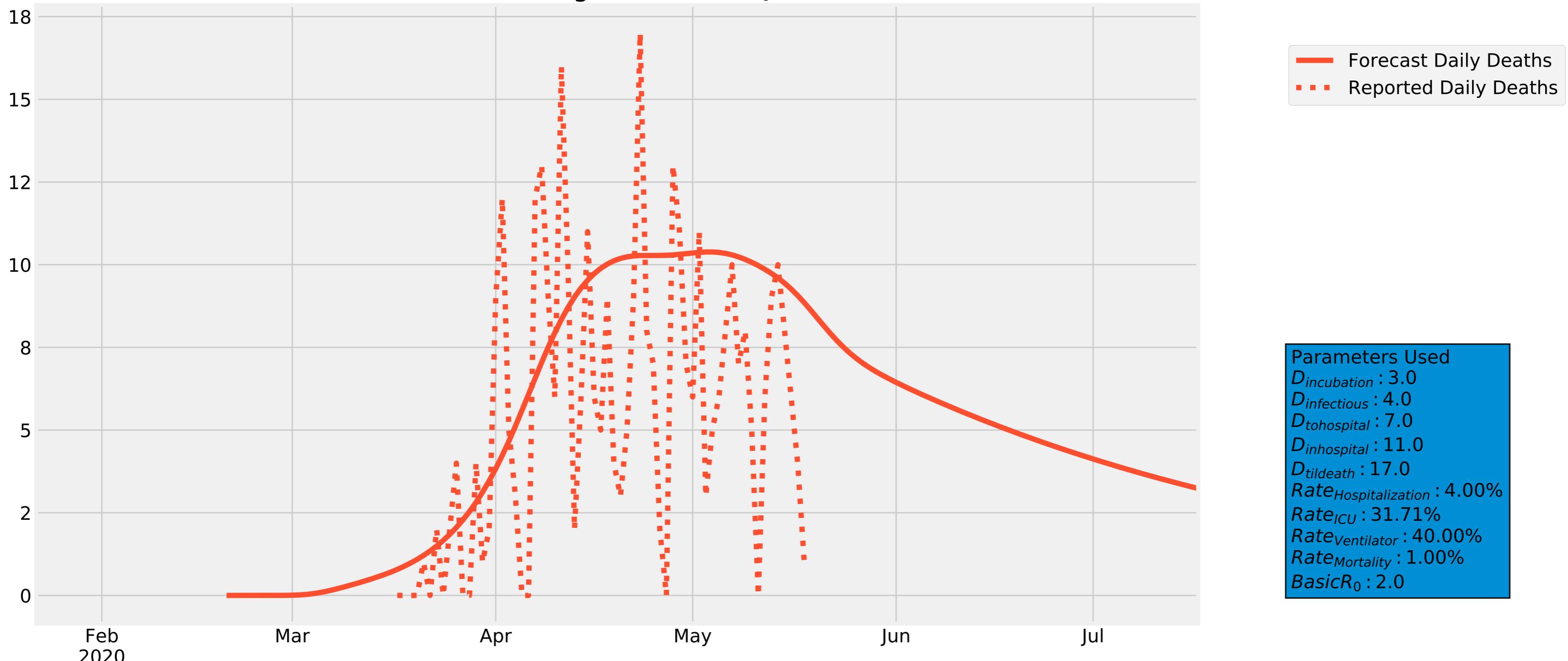
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

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



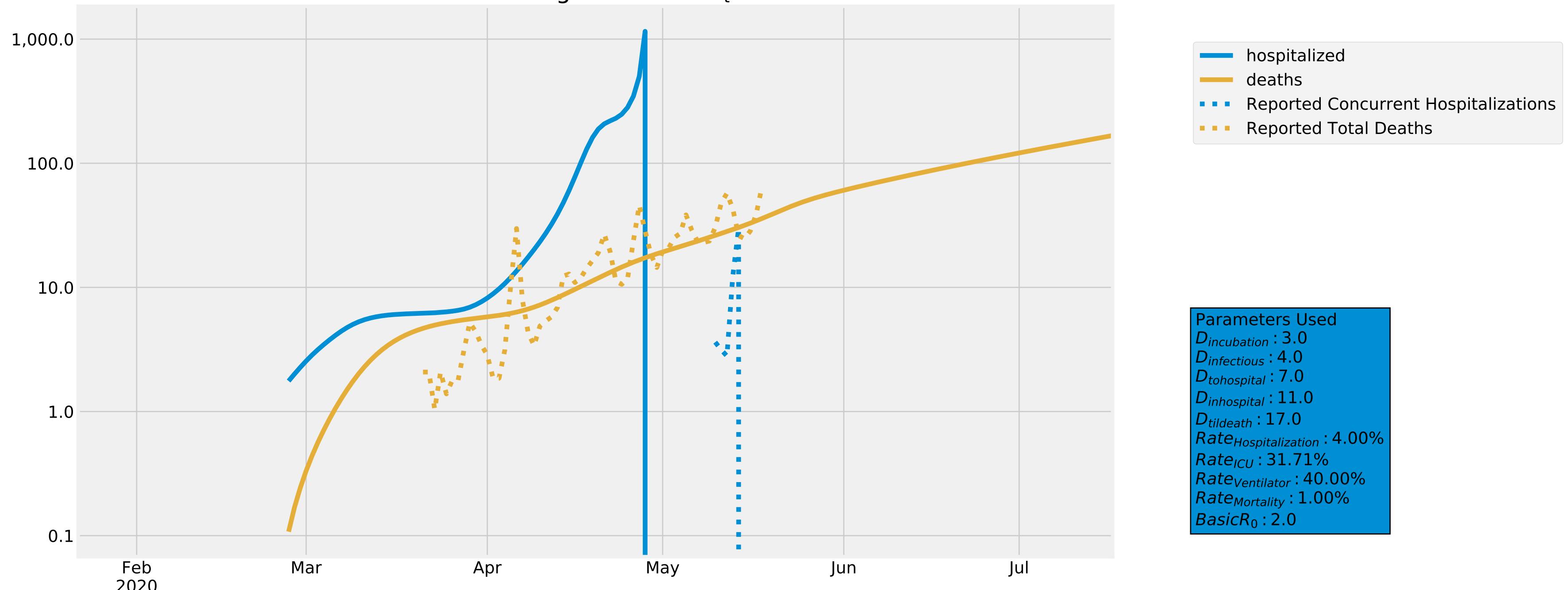
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Daily Deaths Forecast Nevada: No Change in Future R_t Scenario



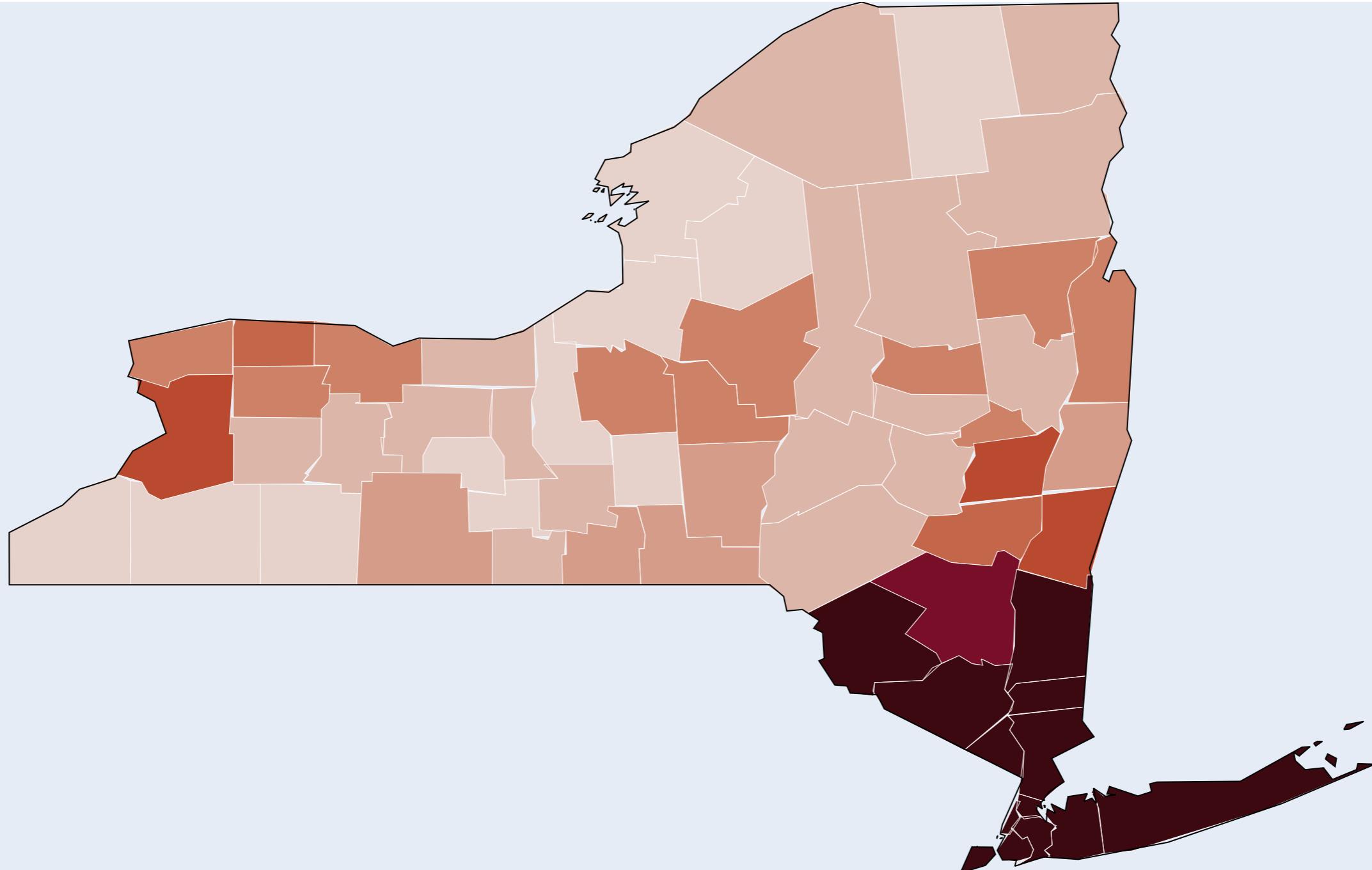
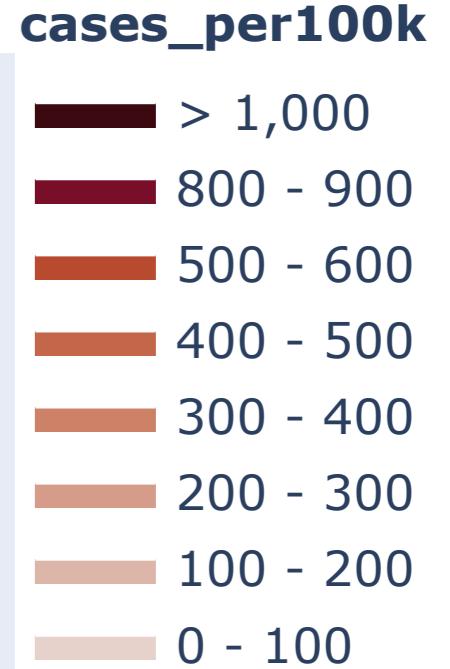
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Nevada: No Change in Future R_t Scenario

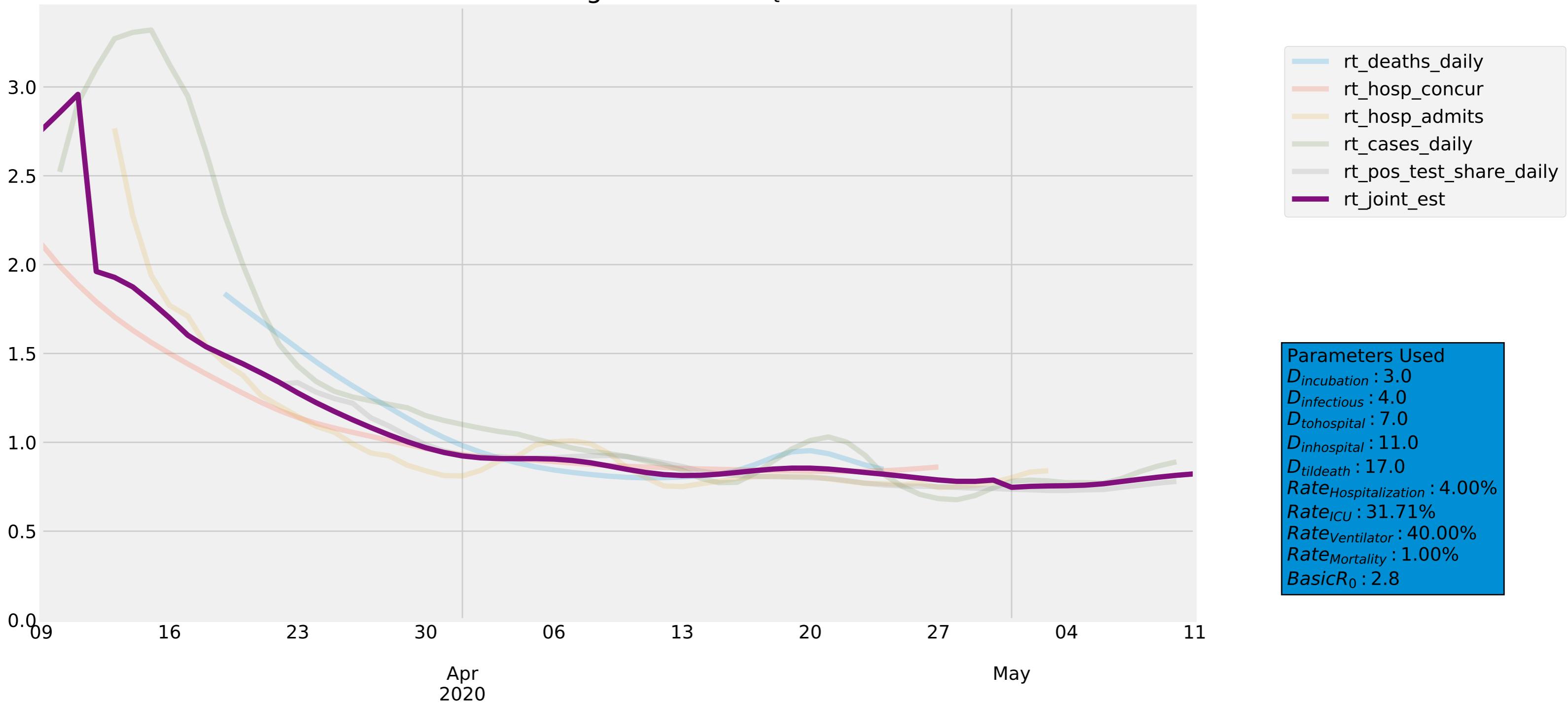


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

New York: COVID-19 Cases Per 100k Residents



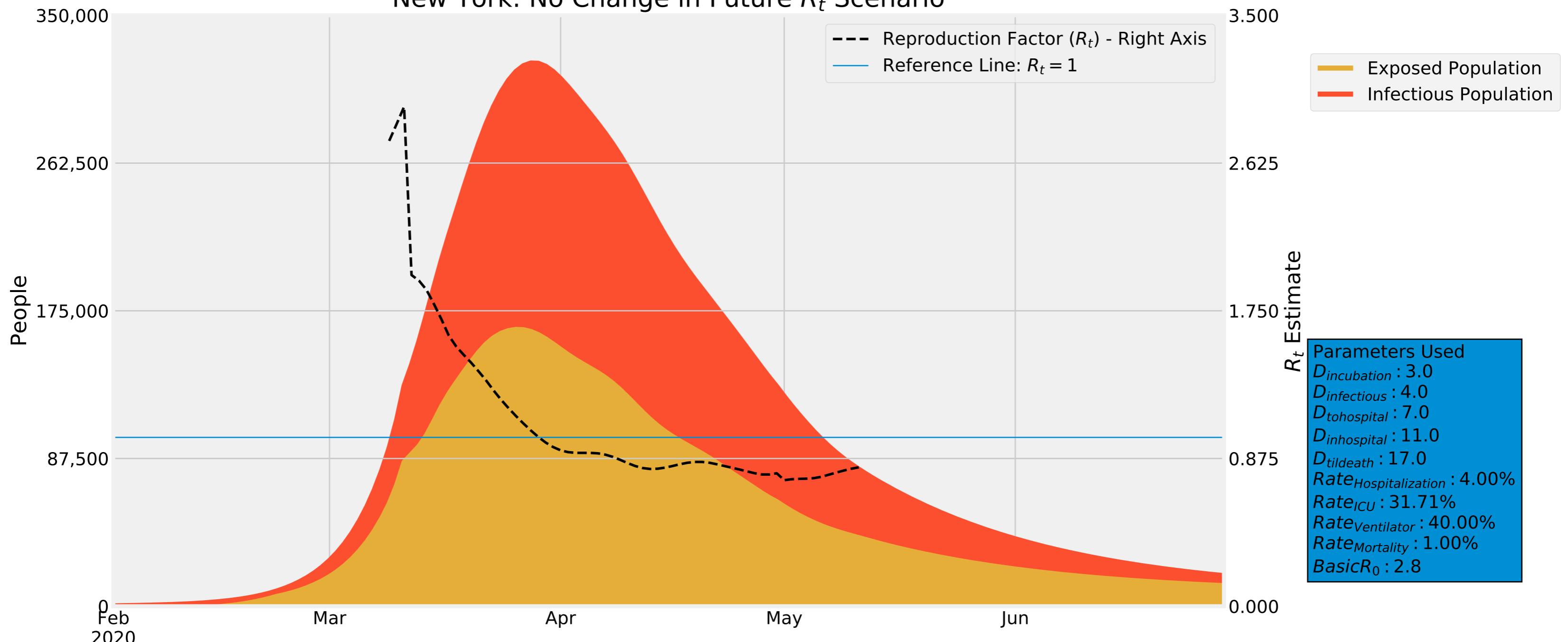
Reproduction Rate (R_t) Estimates New York: No Change in Future R_t Scenario



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

Simultaneous Infections Forecast

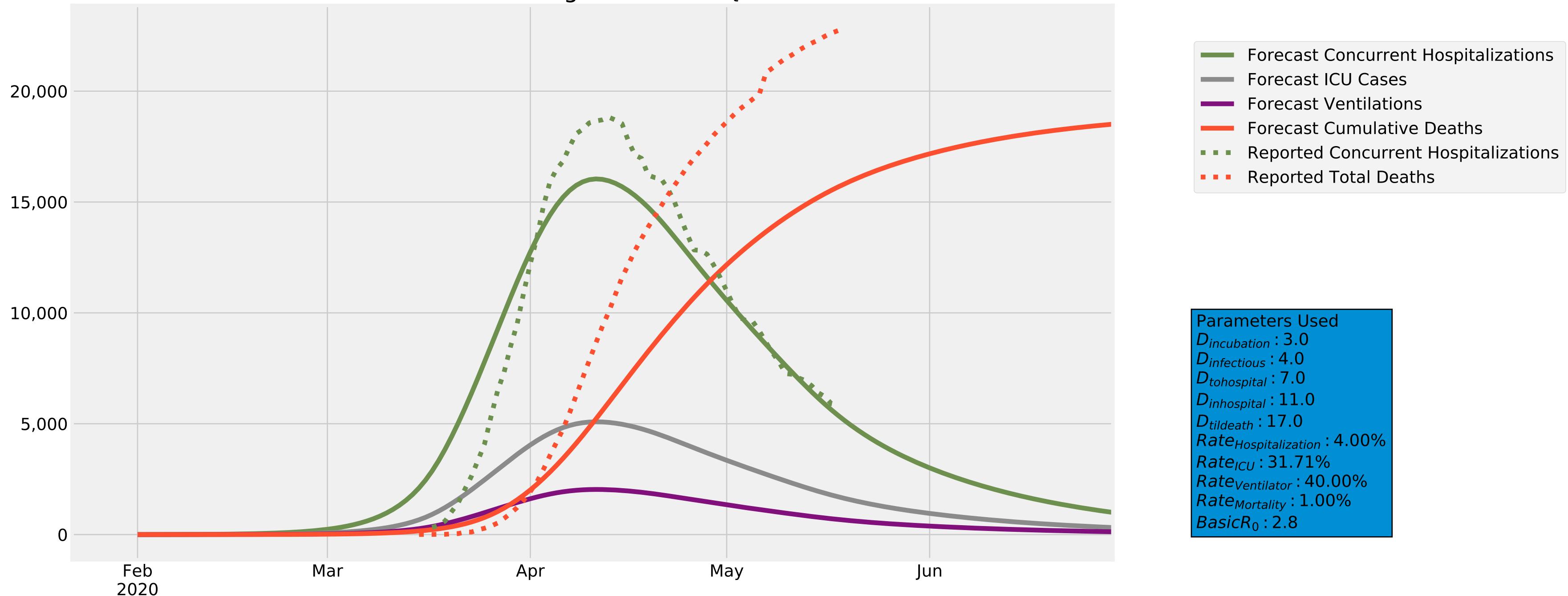
New York: No Change in Future R_t Scenario



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

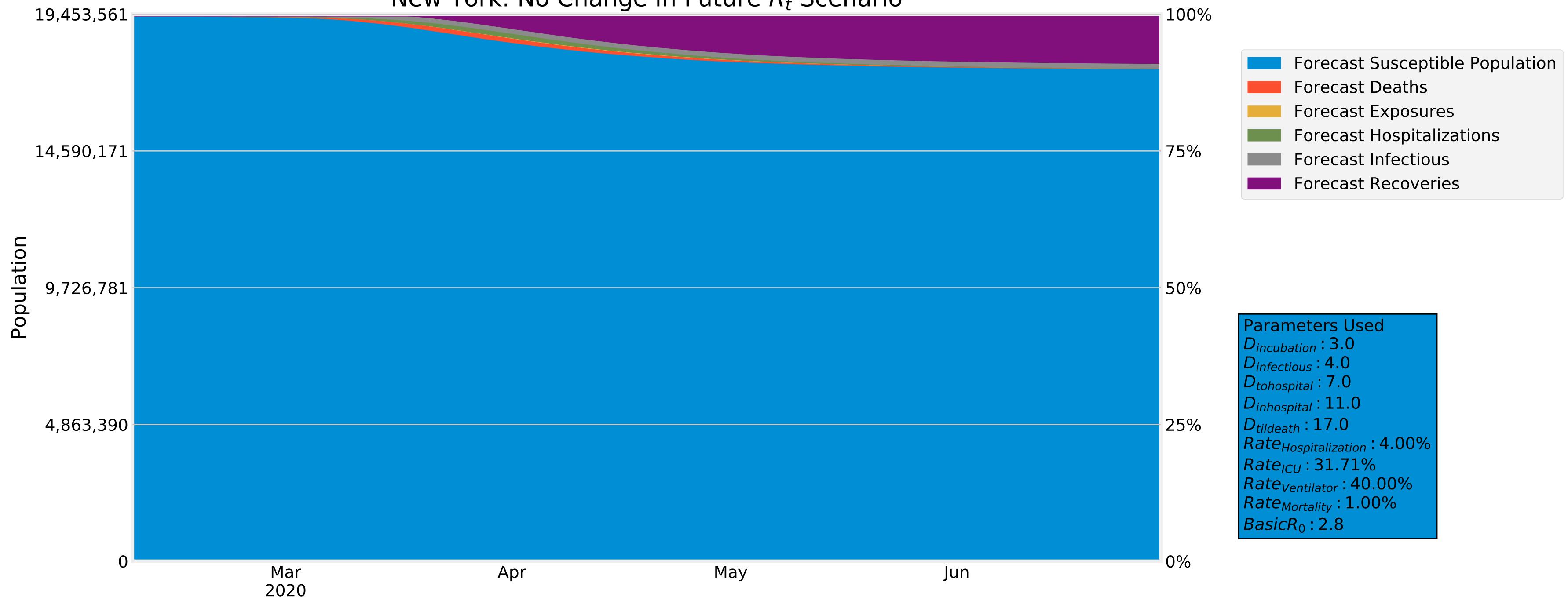
Hospitalization and Deaths Forecast

New York: No Change in Future R_t Scenario

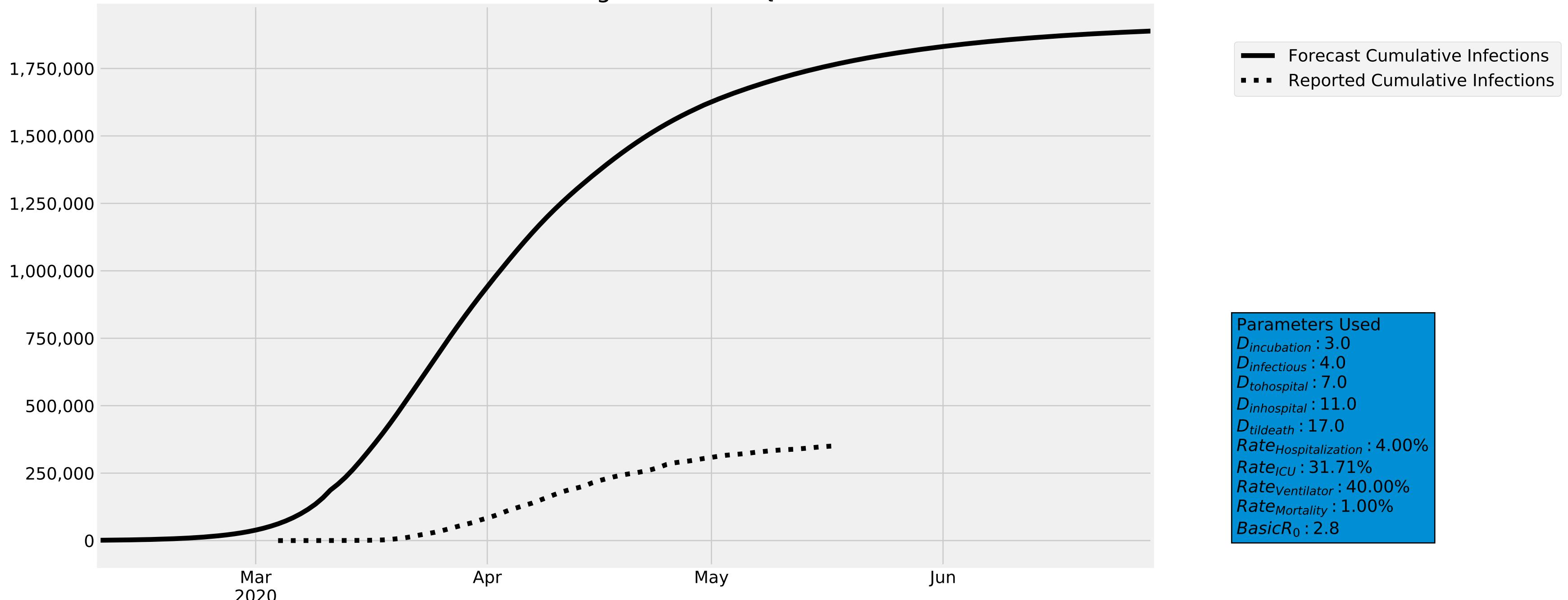


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast New York: No Change in Future R_t Scenario



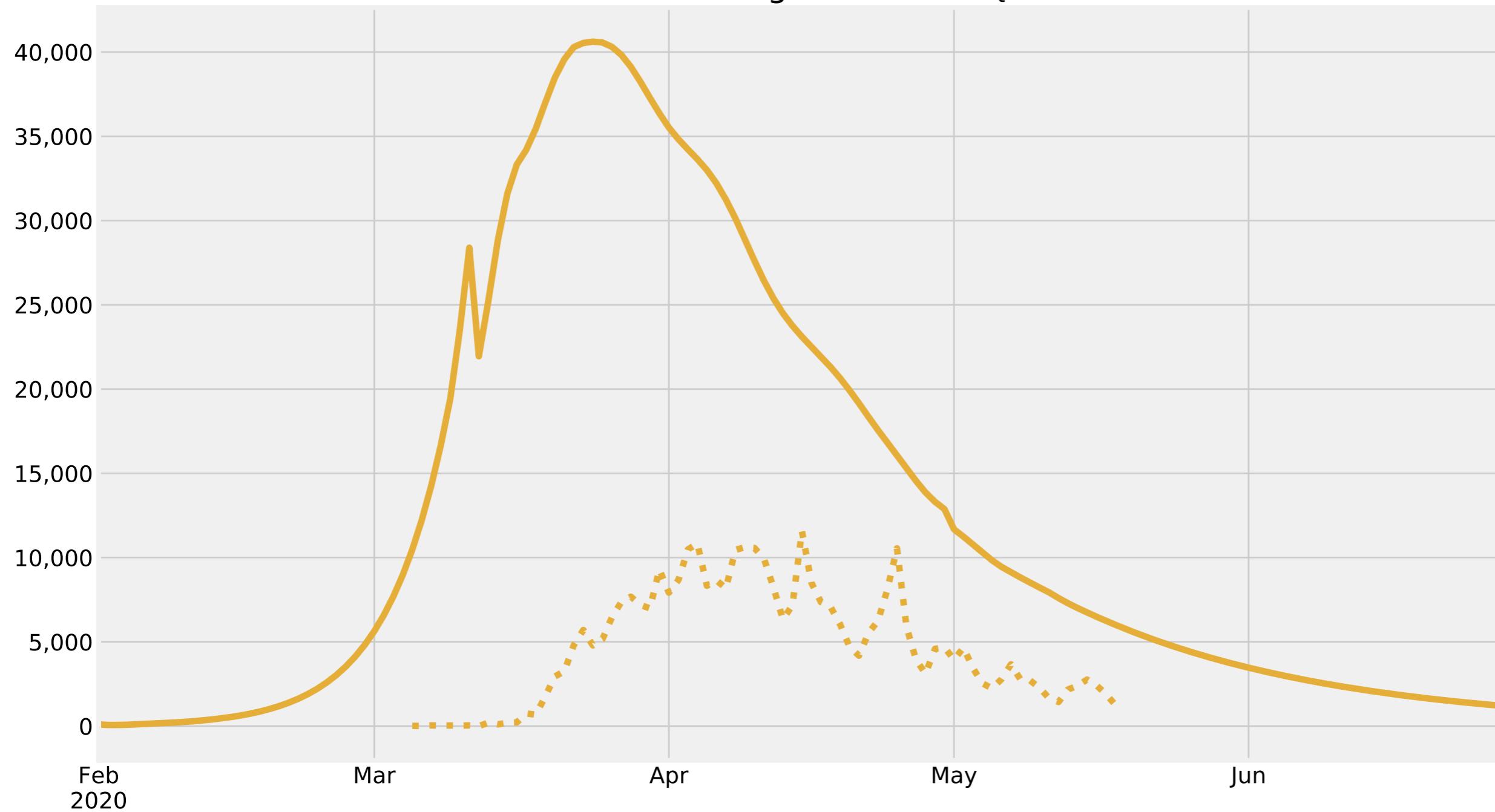
Cumulative Infections Forecast New York: No Change in Future R_t Scenario



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%
 $BasicR_0$: 2.8

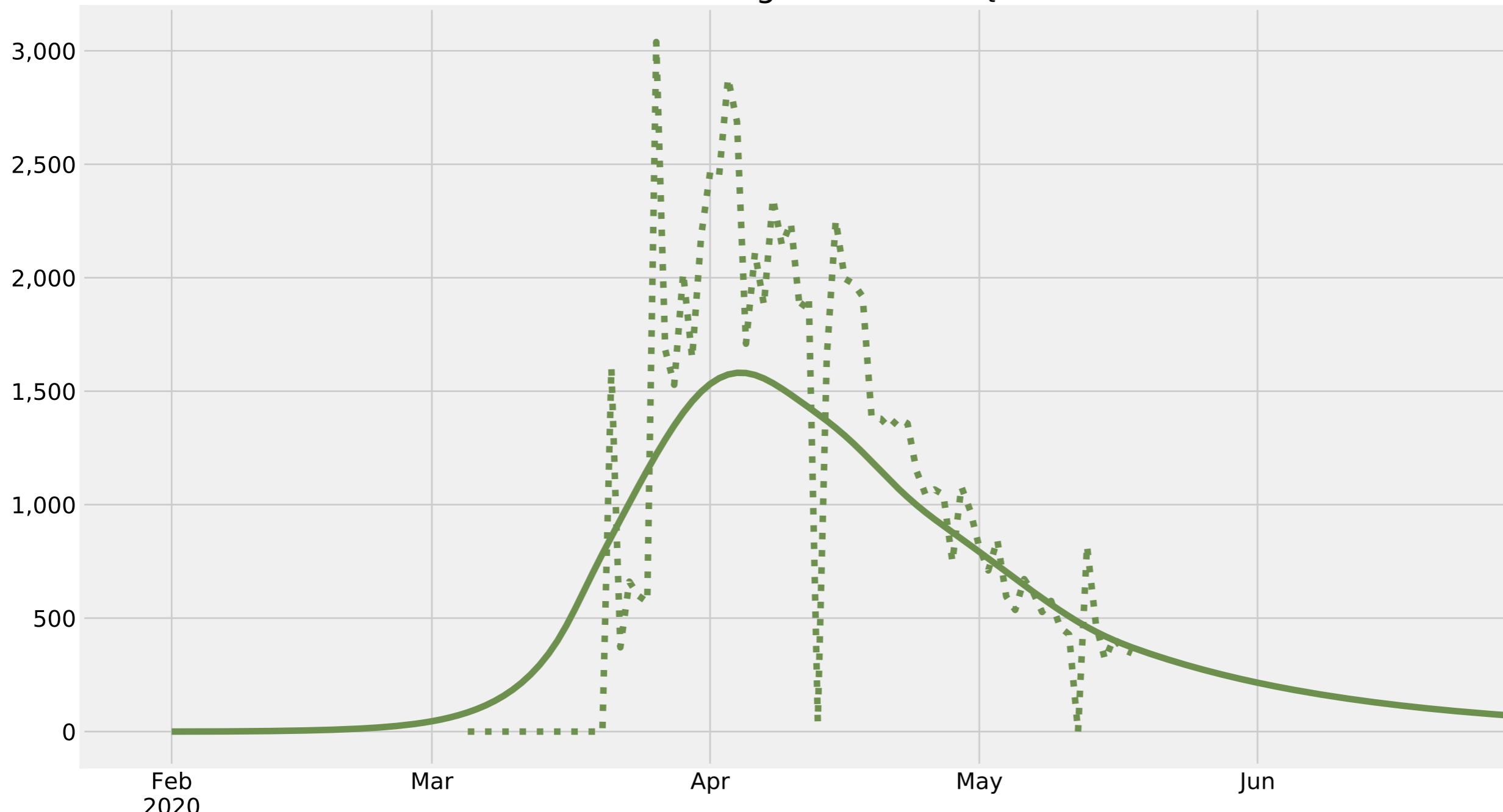
Daily Exposures Forecast New York: No Change in Future R_t Scenario



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%
$BasicR_0$: 2.8

Daily Hospital Admissions Forecast New York: No Change in Future R_t Scenario

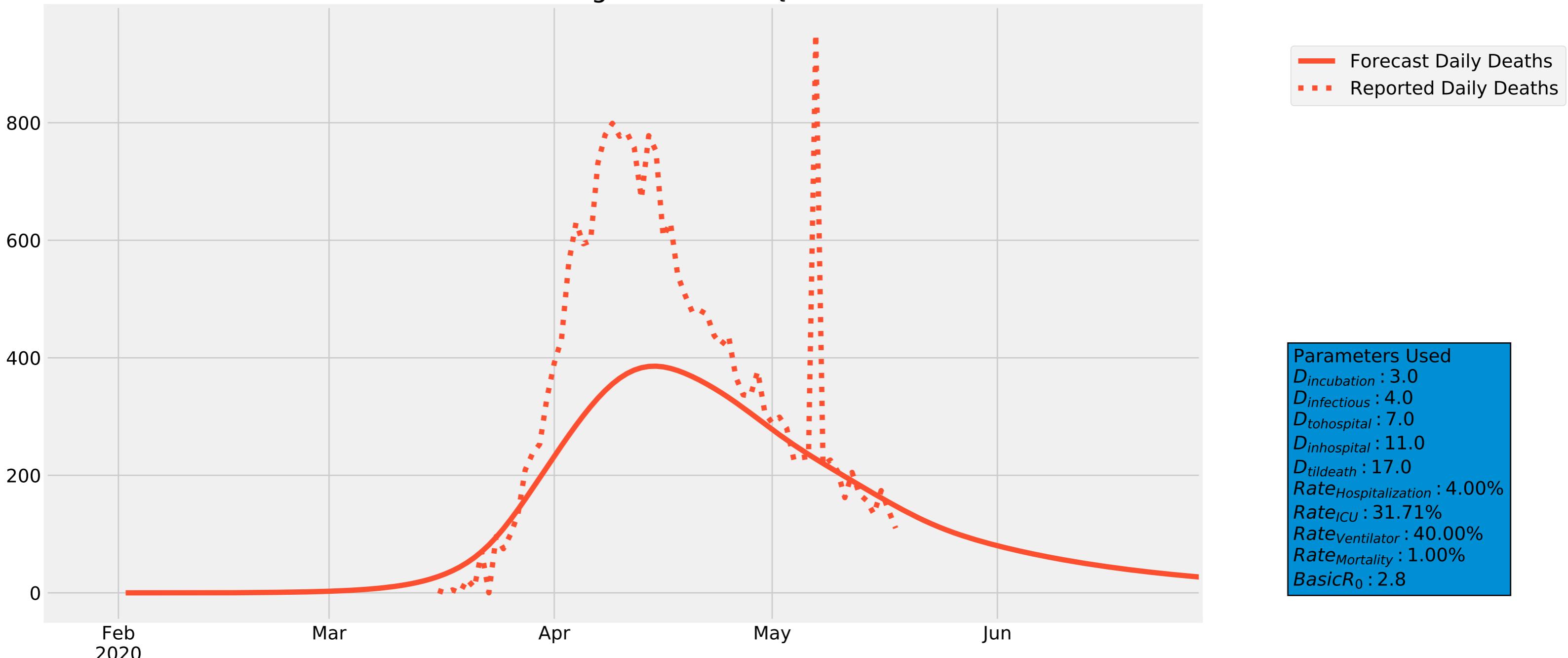


Parameters Used	
$D_{incubation}$: 3.0
$D_{infectious}$: 4.0
$D_{tohospital}$: 7.0
$D_{inhospital}$: 11.0
$D_{tildeath}$: 17.0
Rate _{Hospitalization}	: 4.00%
Rate _{ICU}	: 31.71%
Rate _{Ventilator}	: 40.00%
Rate _{Mortality}	: 1.00%
Basic R_0	: 2.8

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

Daily Deaths Forecast

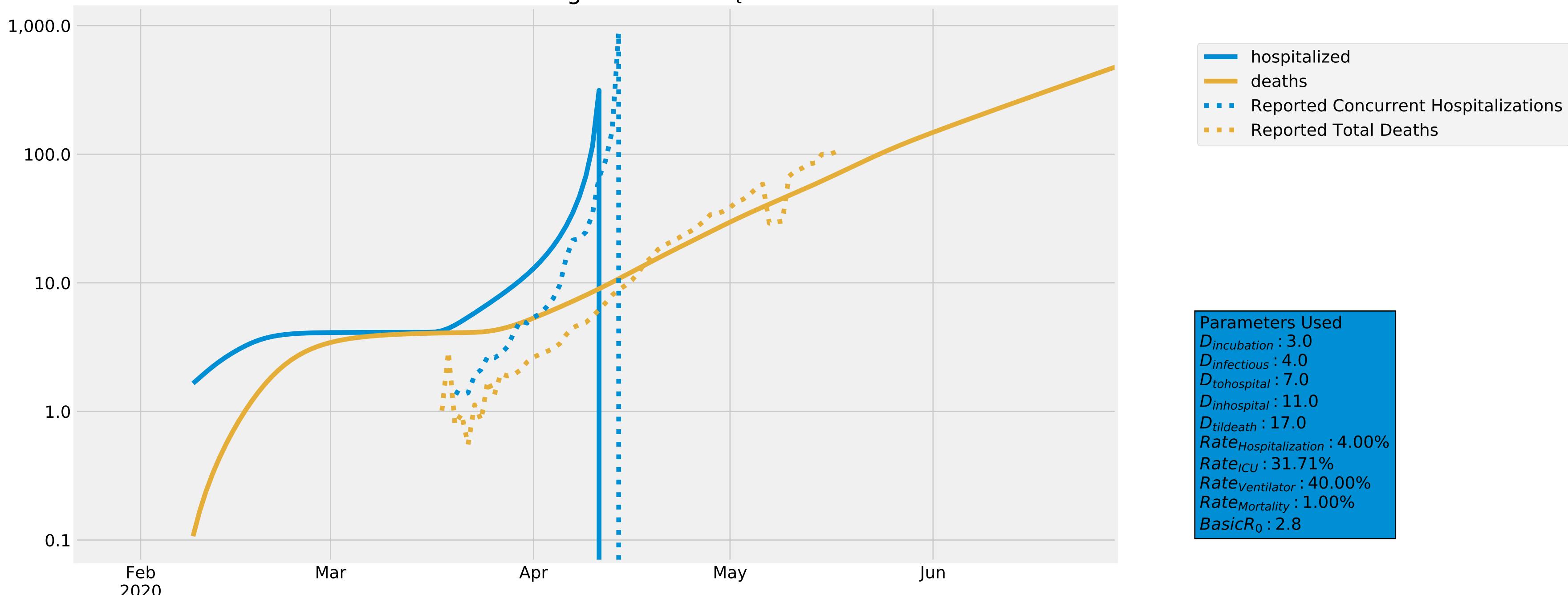
New York: No Change in Future R_t Scenario



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%
Basic R_0	: 2.8

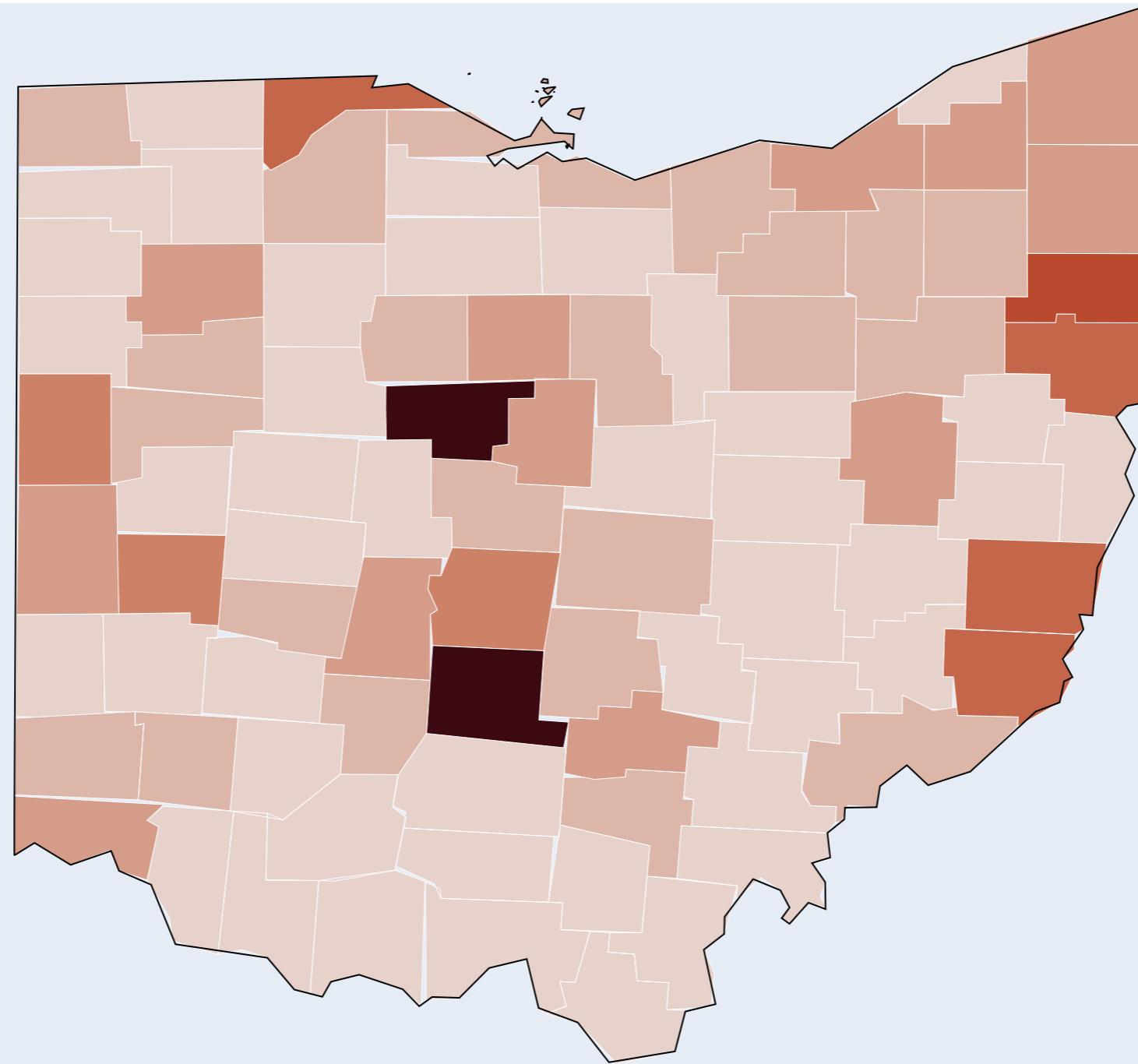
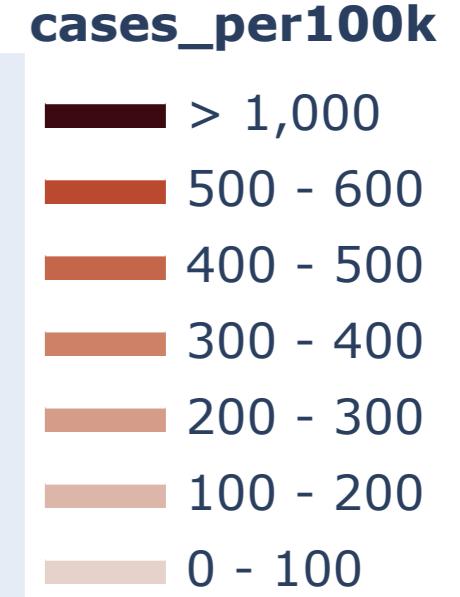
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast New York: No Change in Future R_t Scenario

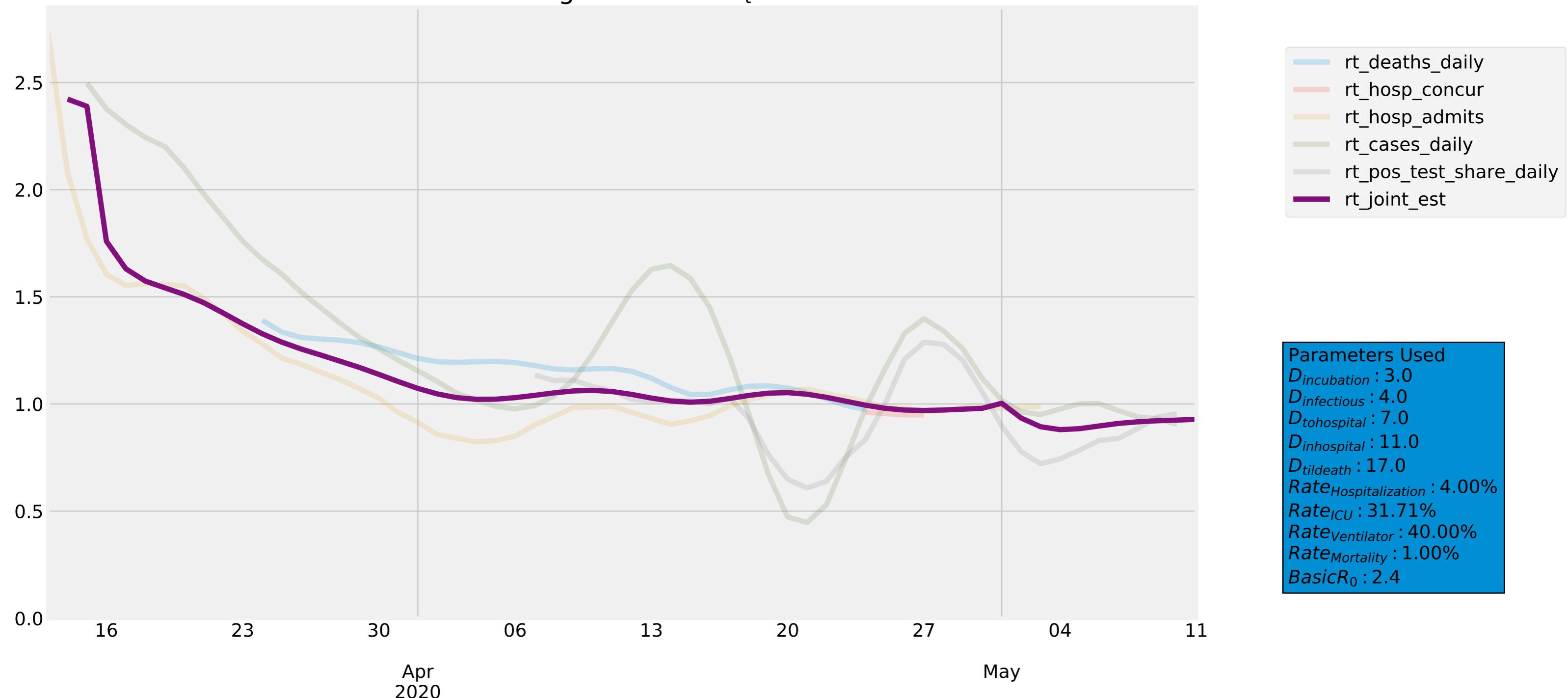


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Ohio: COVID-19 Cases Per 100k Residents

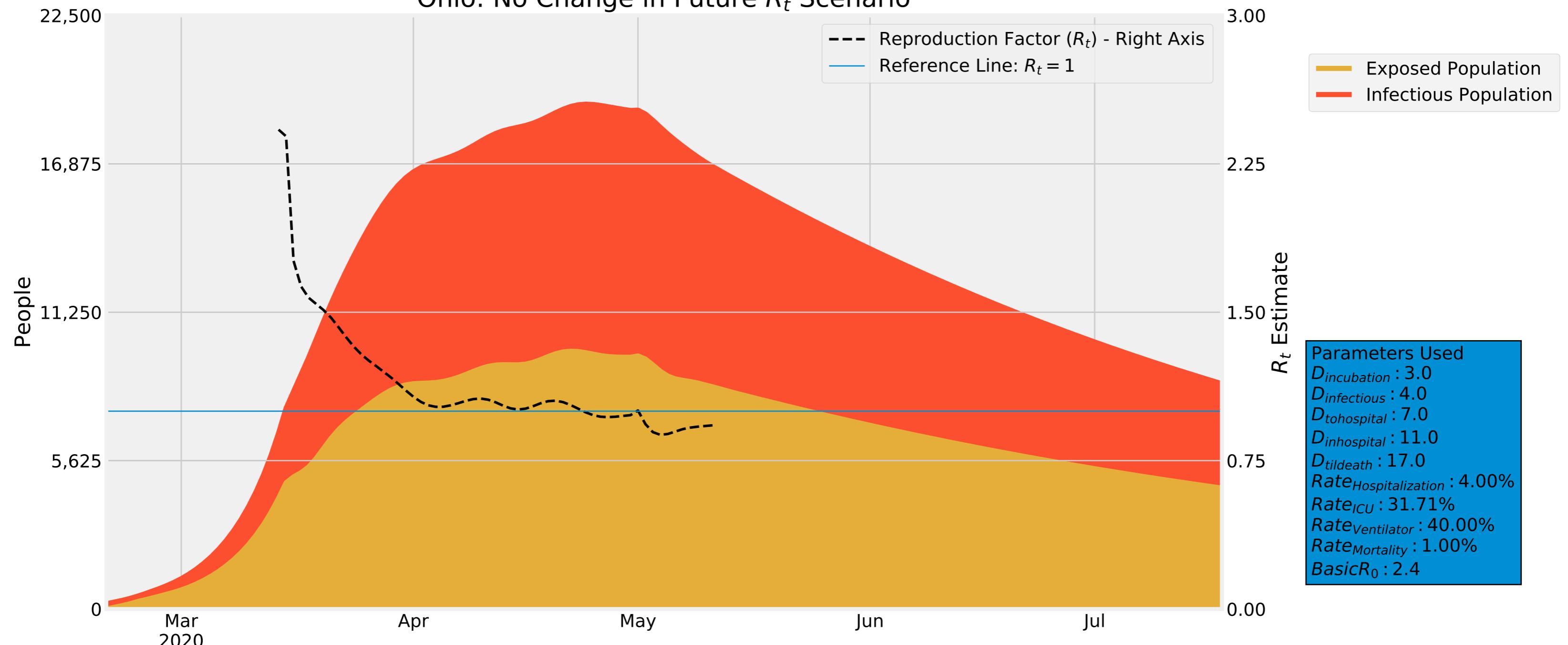


Reproduction Rate (R_t) Estimates Ohio: No Change in Future R_t Scenario



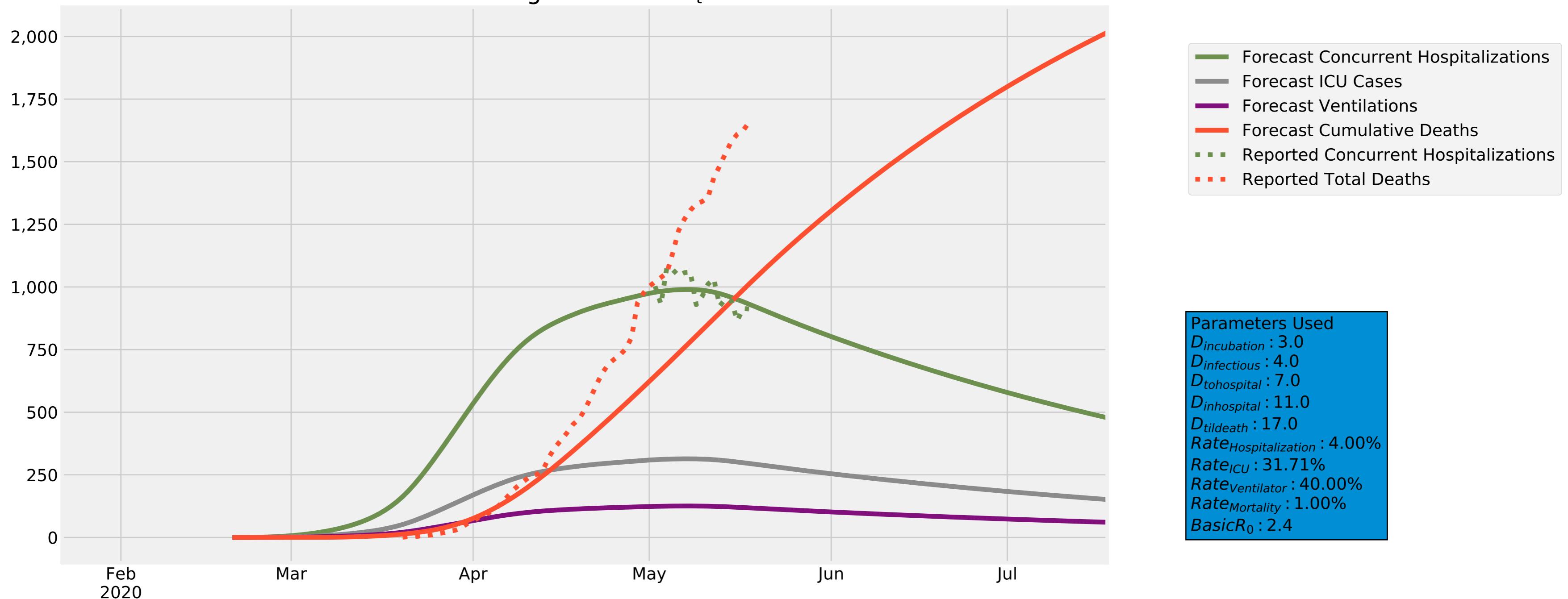
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Simultaneous Infections Forecast Ohio: No Change in Future R_t Scenario



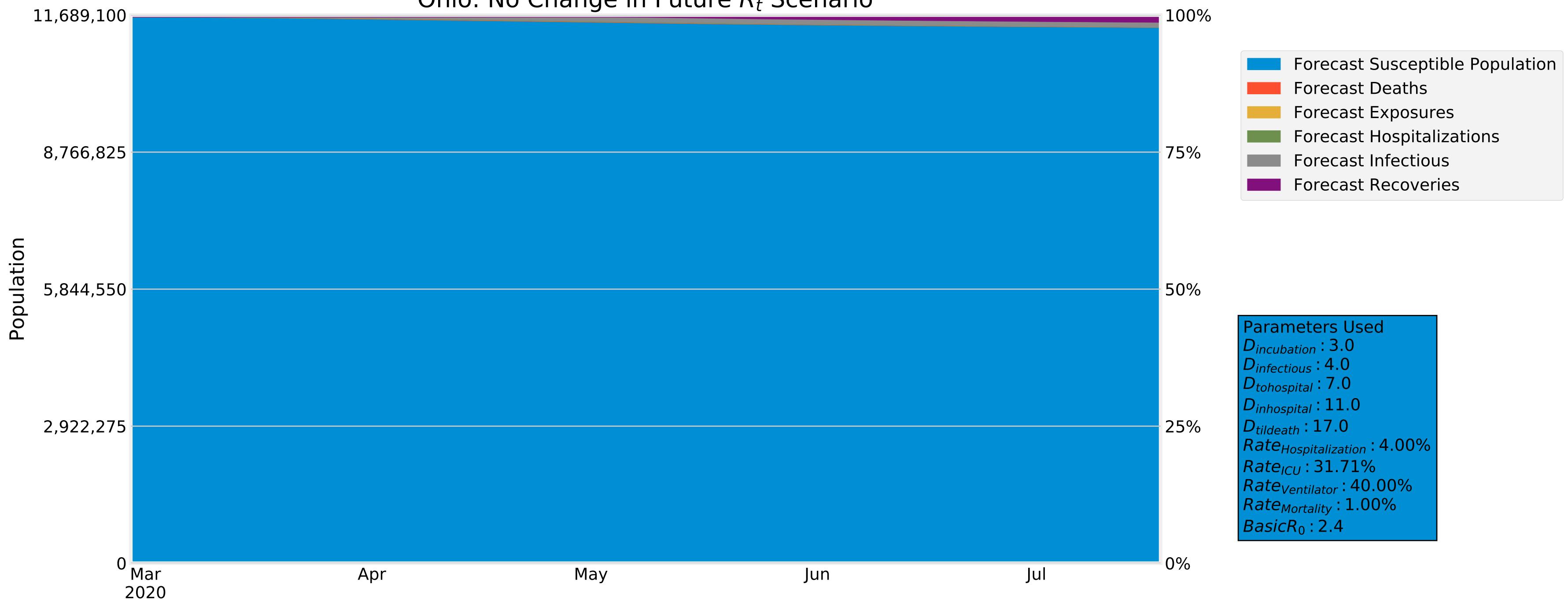
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

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

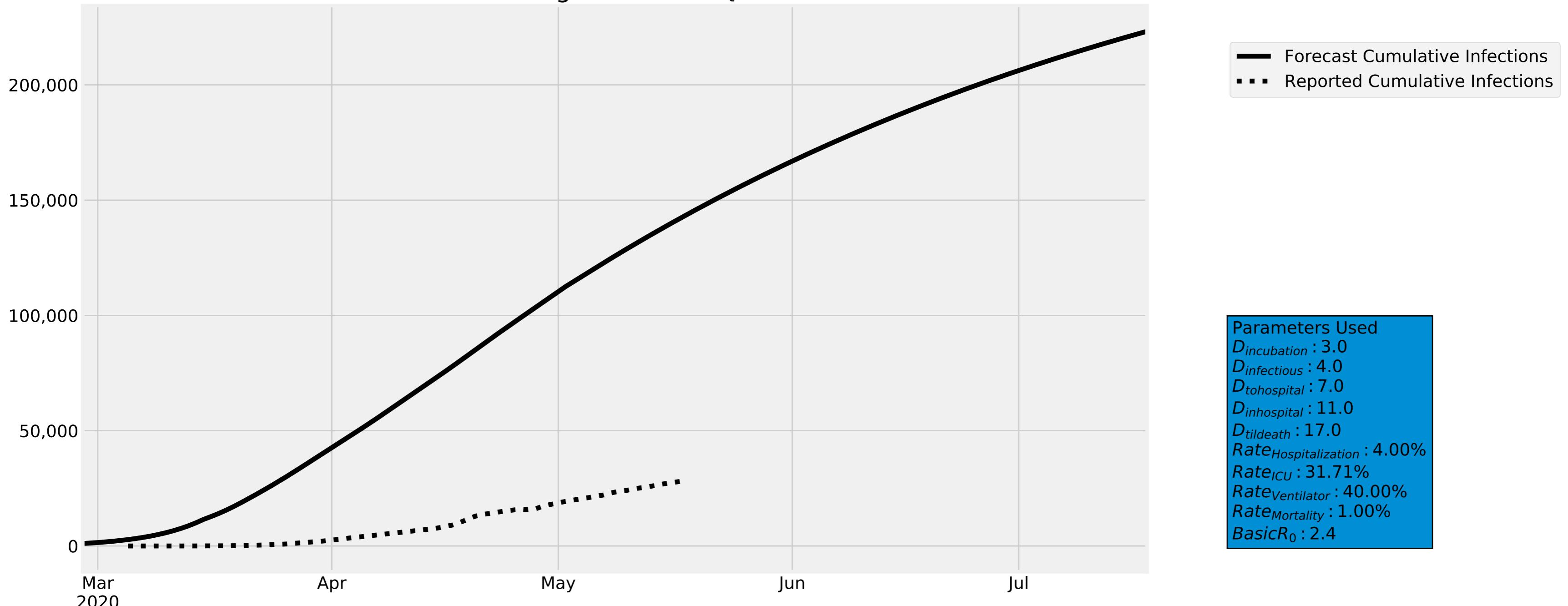


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast Ohio: No Change in Future R_t Scenario



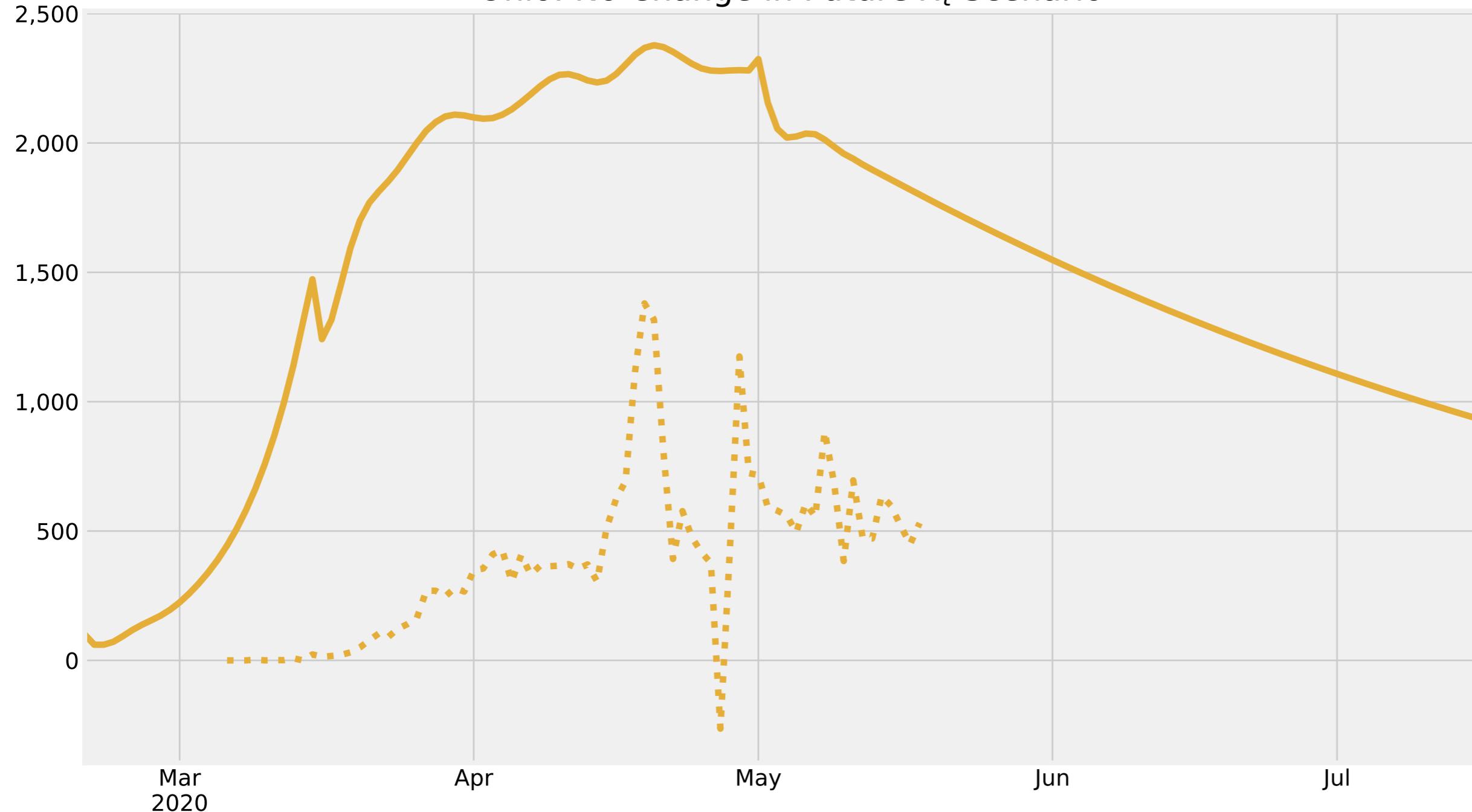
Cumulative Infections Forecast Ohio: No Change in Future R_t Scenario



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%
- $BasicR_0$: 2.4

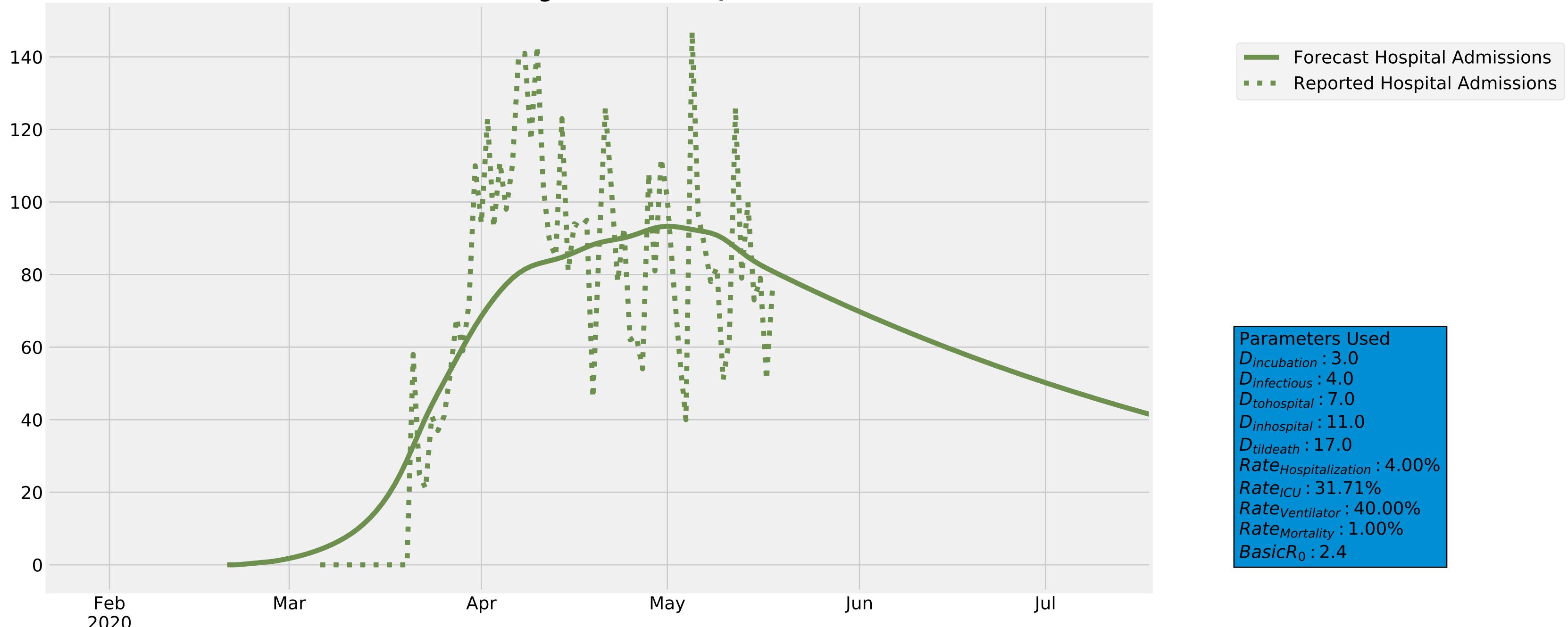
Daily Exposures Forecast Ohio: No Change in Future R_t Scenario



Parameters Used

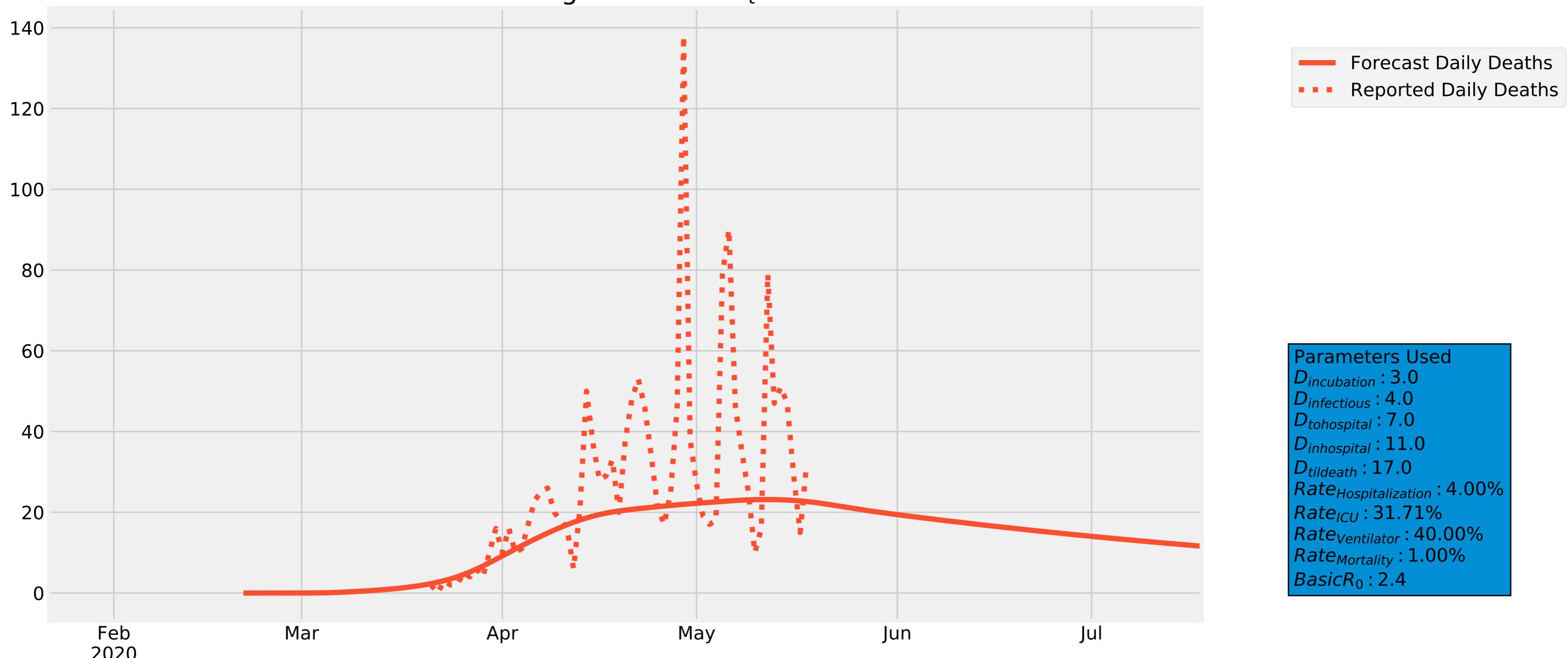
$D_{incubation}$: 3.0
$D_{infectious}$: 4.0
$D_{tohospital}$: 7.0
$D_{inhospital}$: 11.0
$D_{tildeath}$: 17.0
Rate _{Hospitalization}	: 4.00%
Rate _{ICU}	: 31.71%
Rate _{Ventilator}	: 40.00%
Rate _{Mortality}	: 1.00%
Basic R_0	: 2.4

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



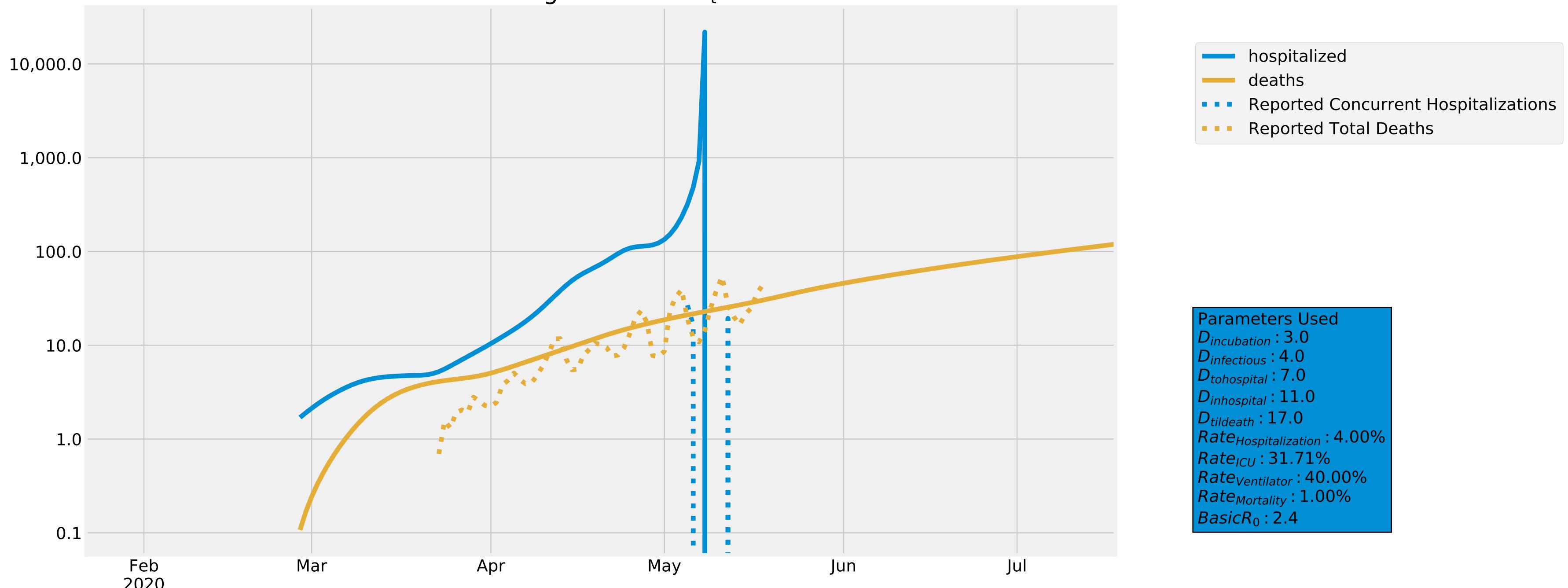
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Daily Deaths Forecast Ohio: No Change in Future R_t Scenario



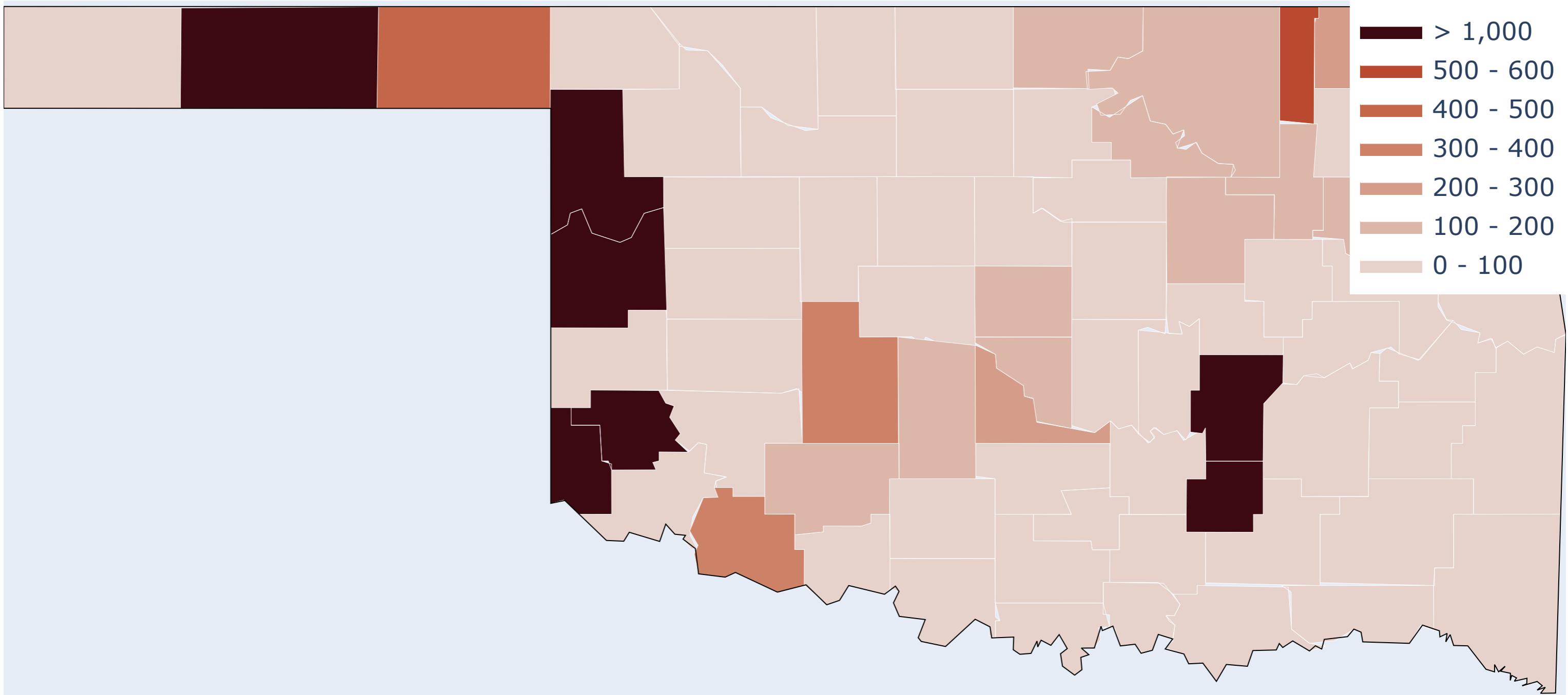
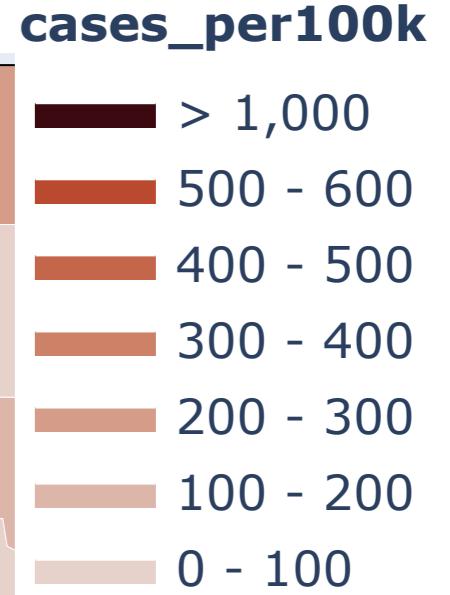
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Ohio: No Change in Future R_t Scenario



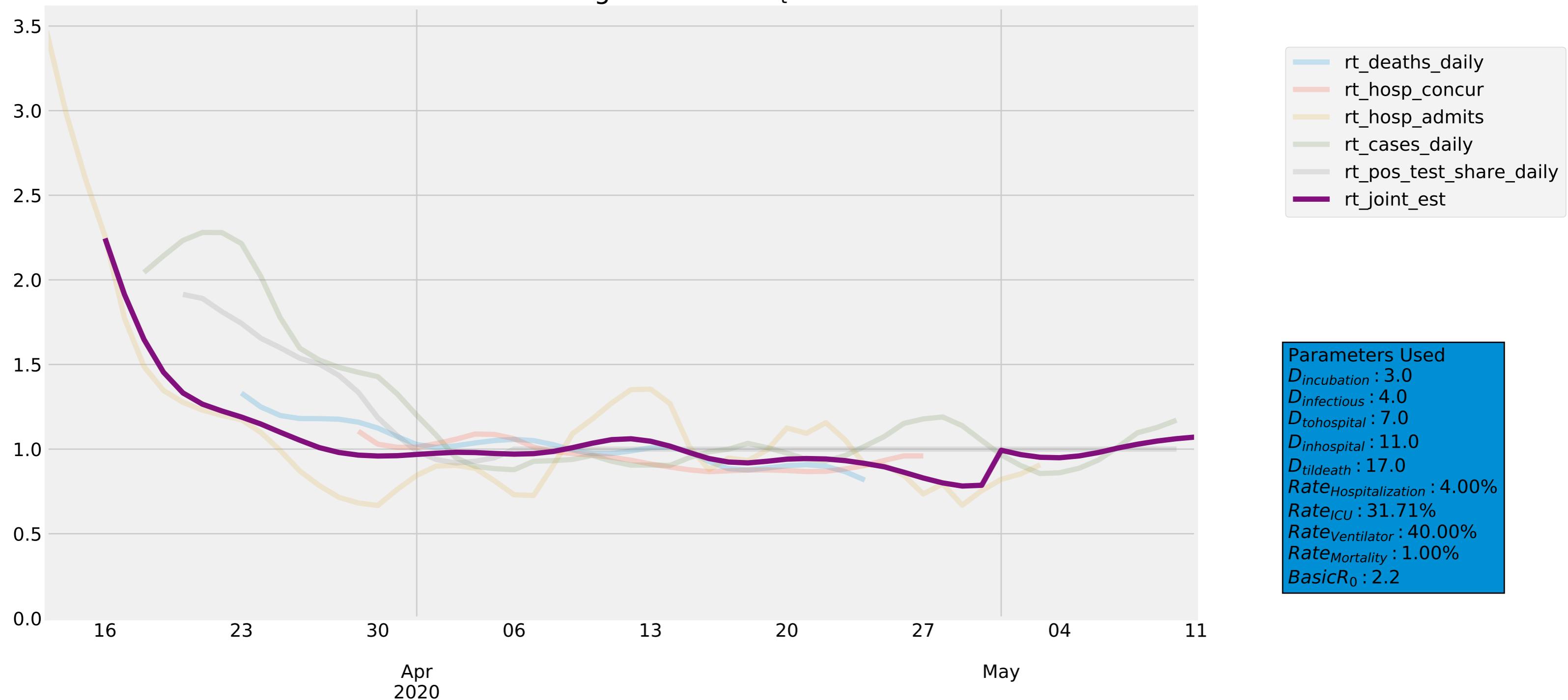
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Oklahoma: COVID-19 Cases Per 100k Residents



Reproduction Rate (R_t) Estimates

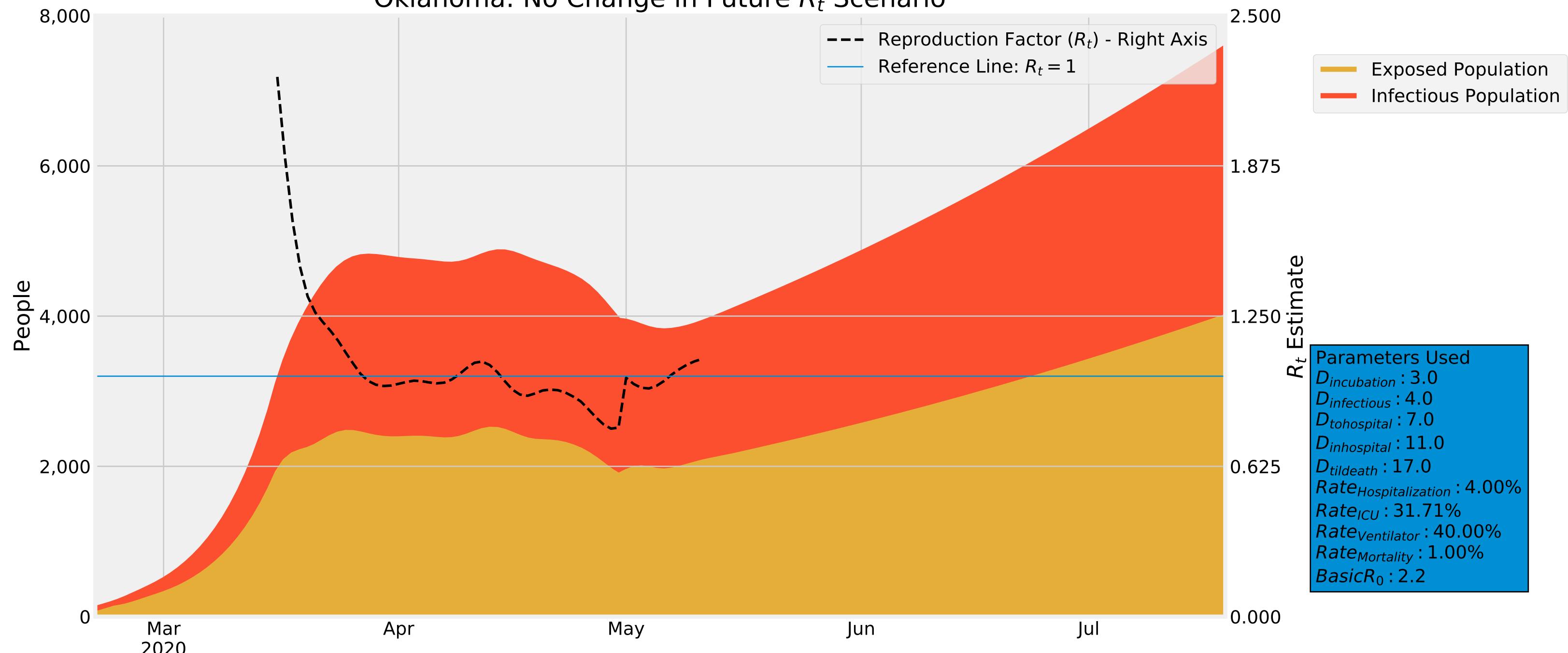
Oklahoma: No Change in Future R_t Scenario



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

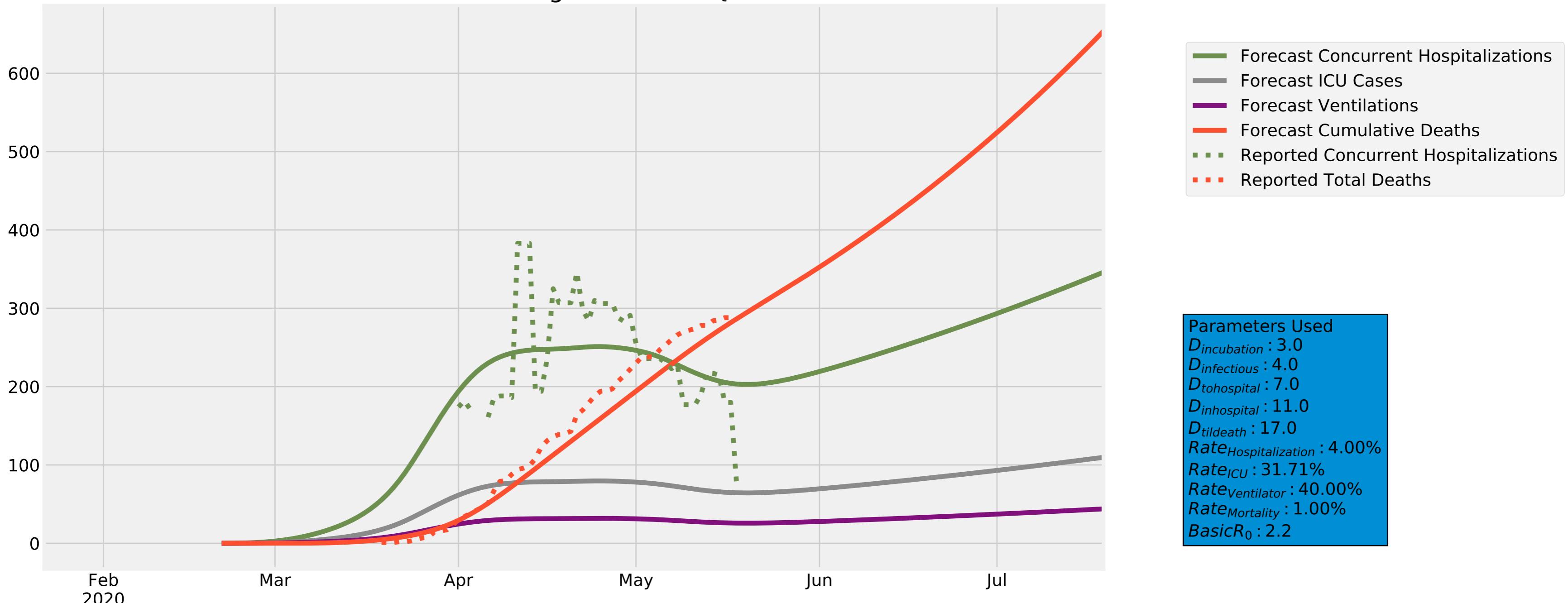
Simultaneous Infections Forecast

Oklahoma: No Change in Future R_t Scenario



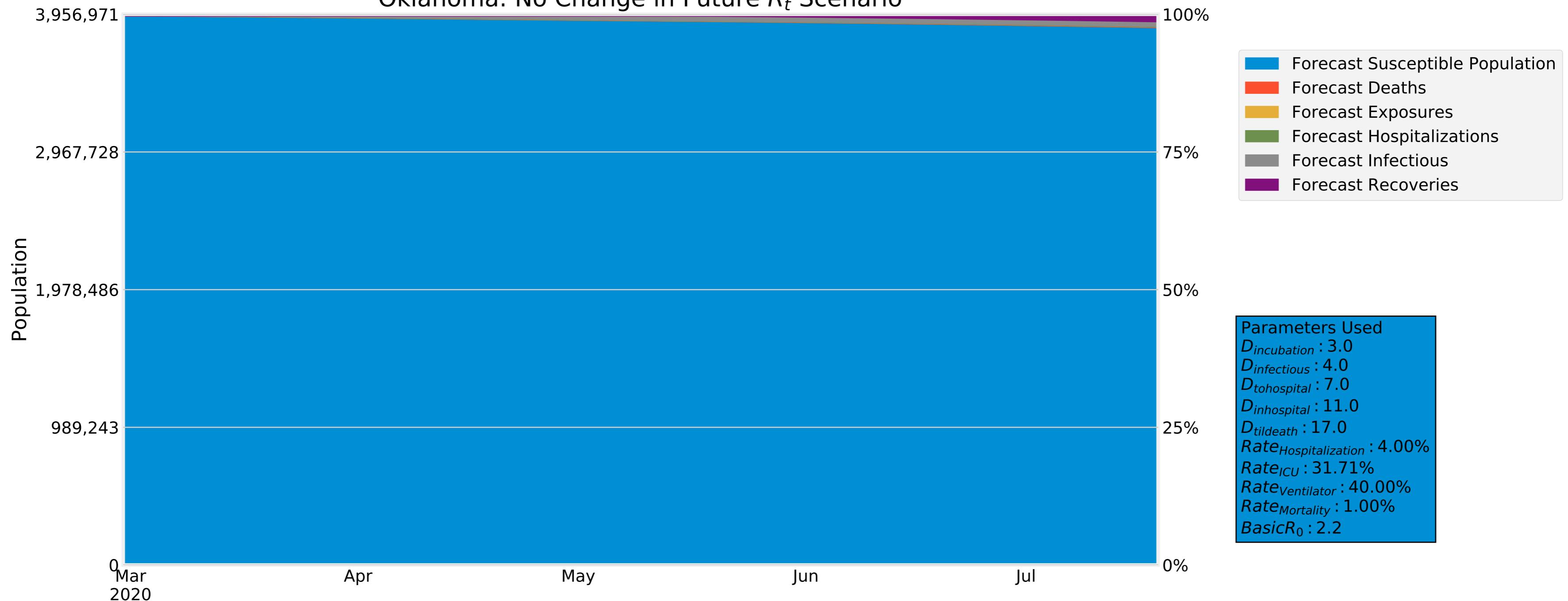
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

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

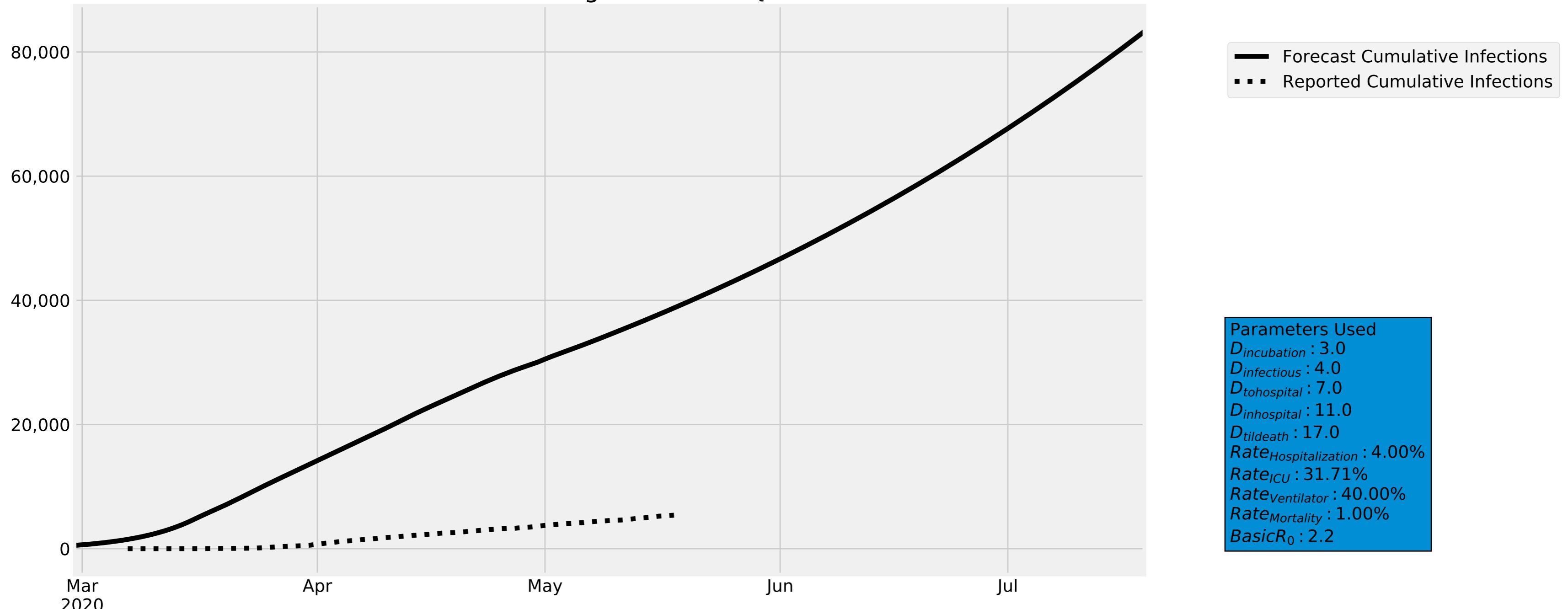


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast Oklahoma: No Change in Future R_t Scenario



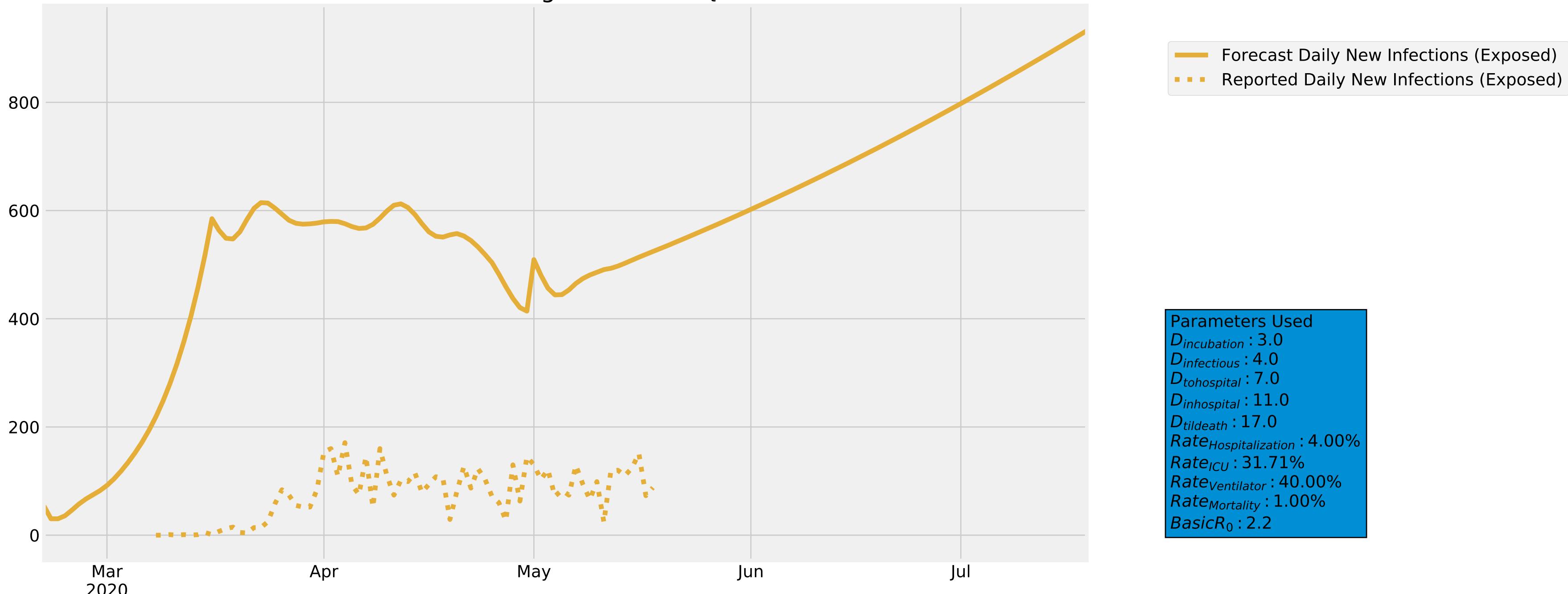
Cumulative Infections Forecast Oklahoma: No Change in Future R_t Scenario



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%
- $BasicR_0$: 2.2

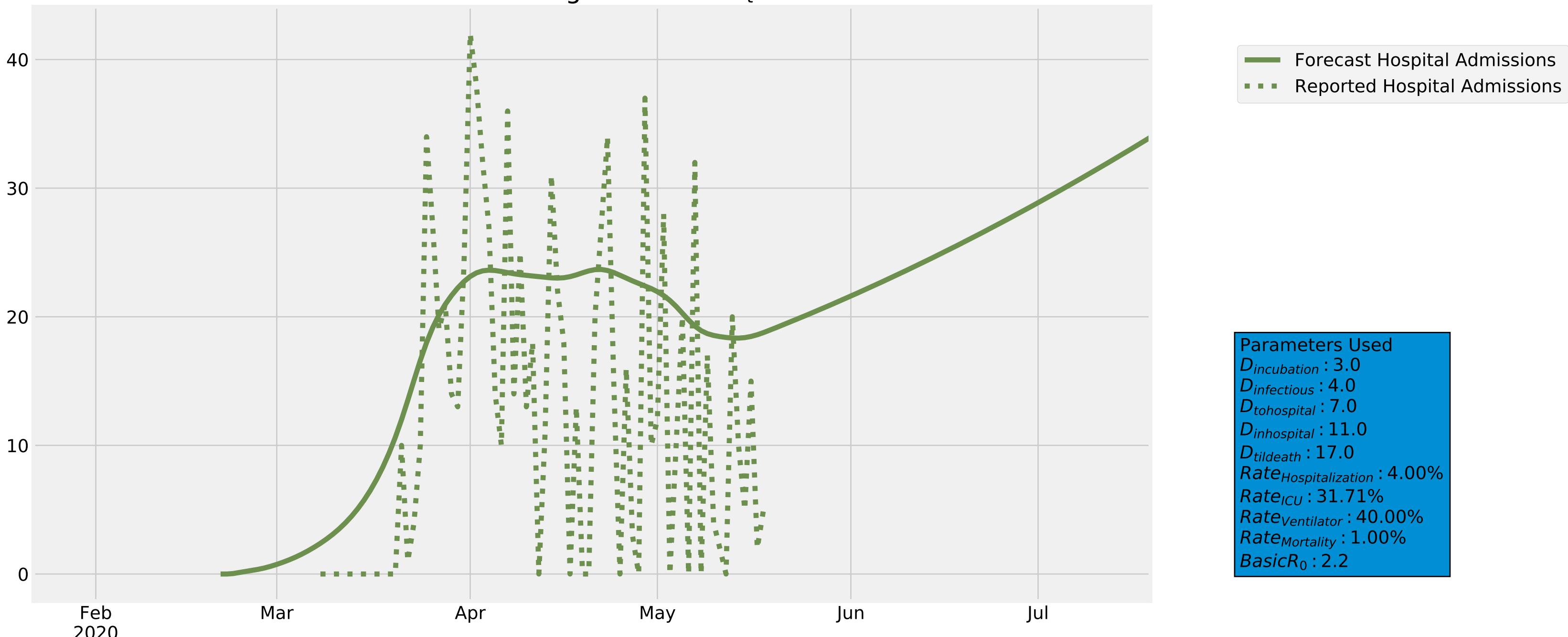
Daily Exposures Forecast Oklahoma: No Change in Future R_t Scenario



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%
 $BasicR_0$: 2.2

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

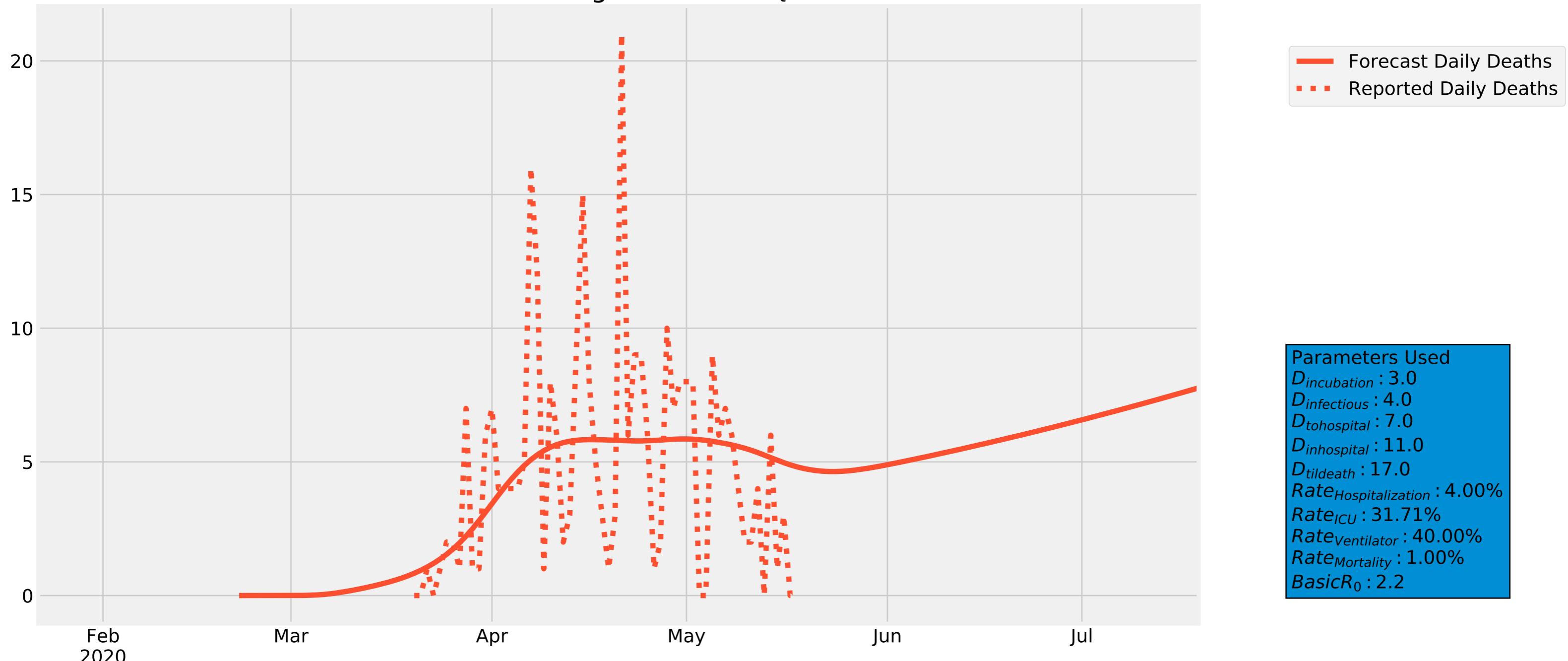


Parameters Used

- $D_{incubation}$: 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%
- $BasicR_0$: 2.2

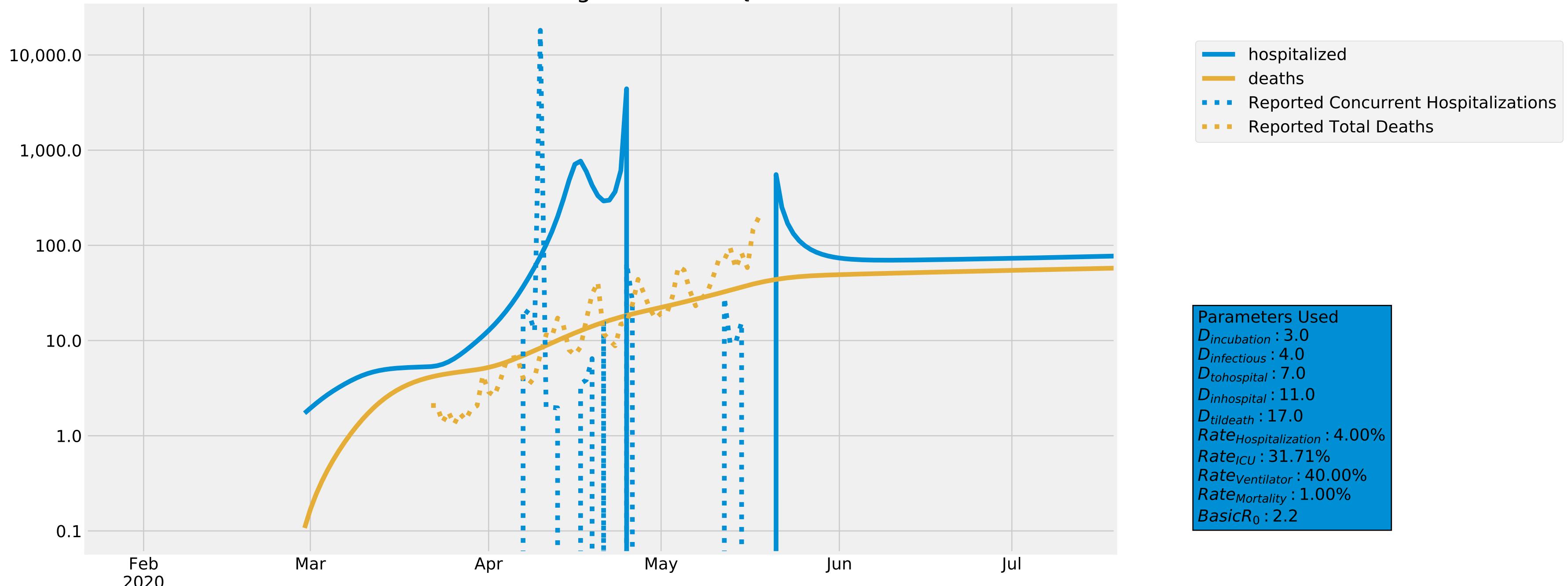
Daily Deaths Forecast

Oklahoma: No Change in Future R_t Scenario



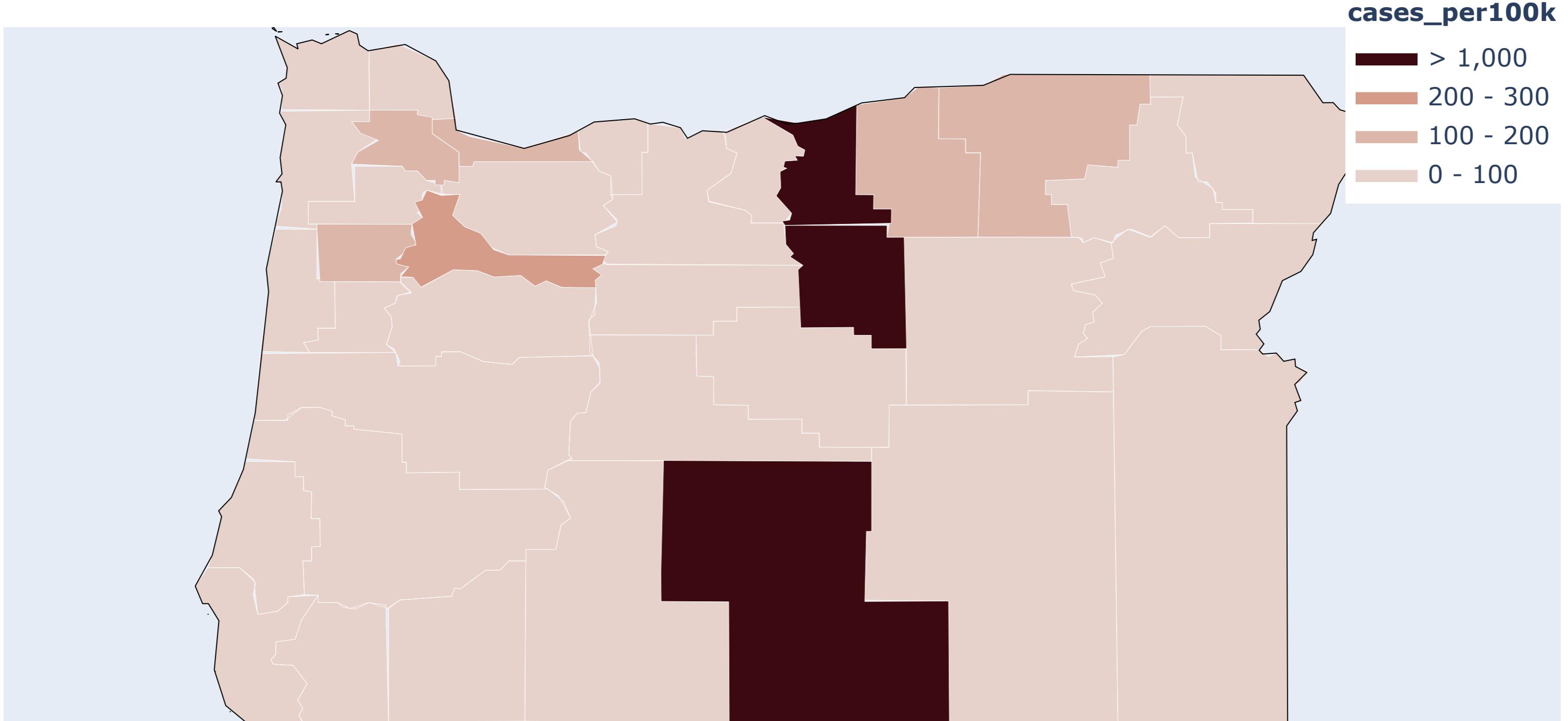
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Oklahoma: No Change in Future R_t Scenario

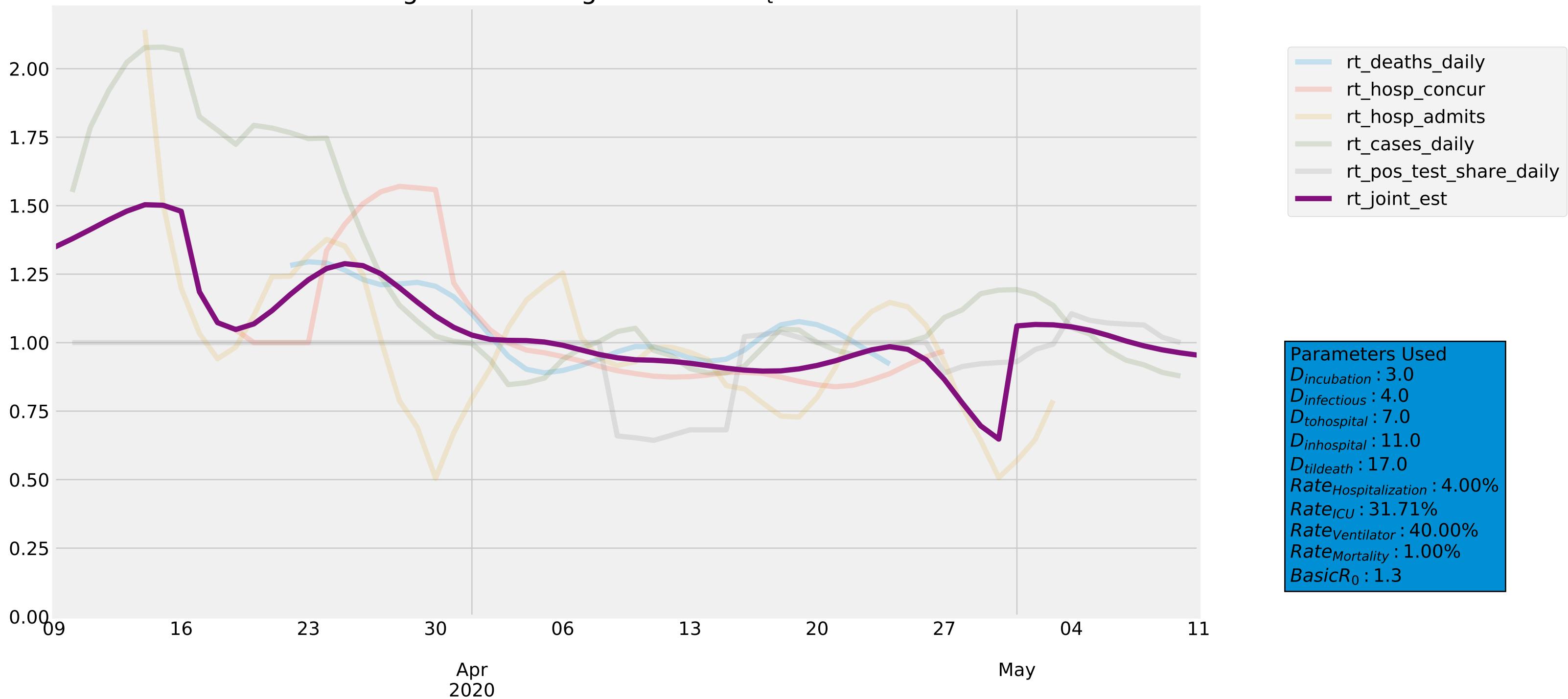


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Oregon: COVID-19 Cases Per 100k Residents



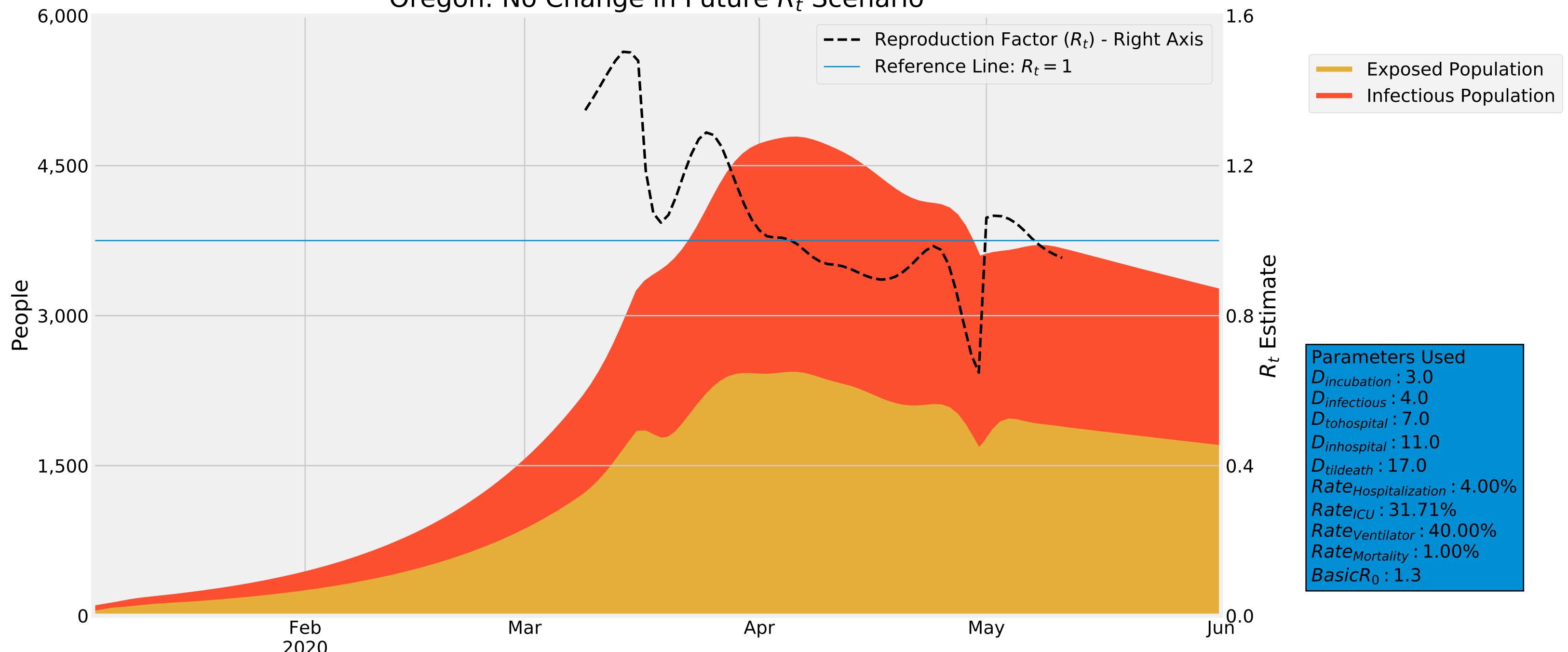
Reproduction Rate (R_t) Estimates Oregon: No Change in Future R_t Scenario



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

Simultaneous Infections Forecast

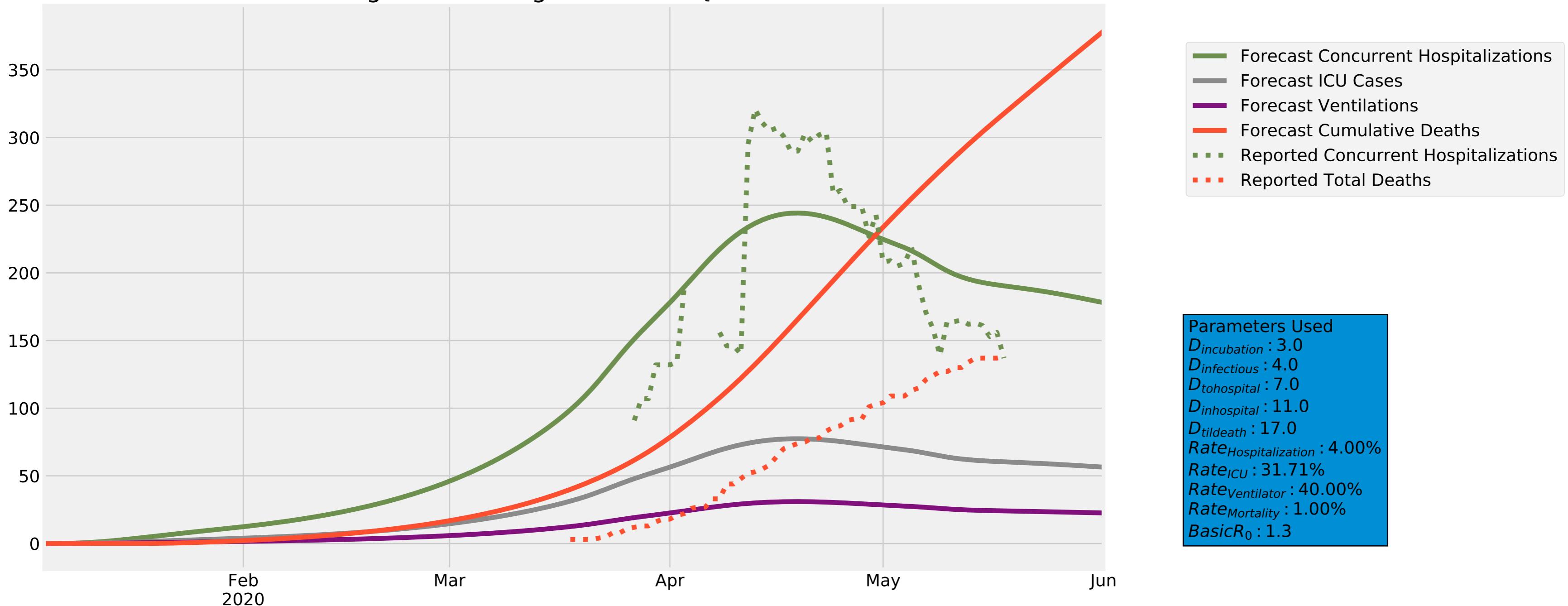
Oregon: No Change in Future R_t Scenario



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

Hospitalization and Deaths Forecast

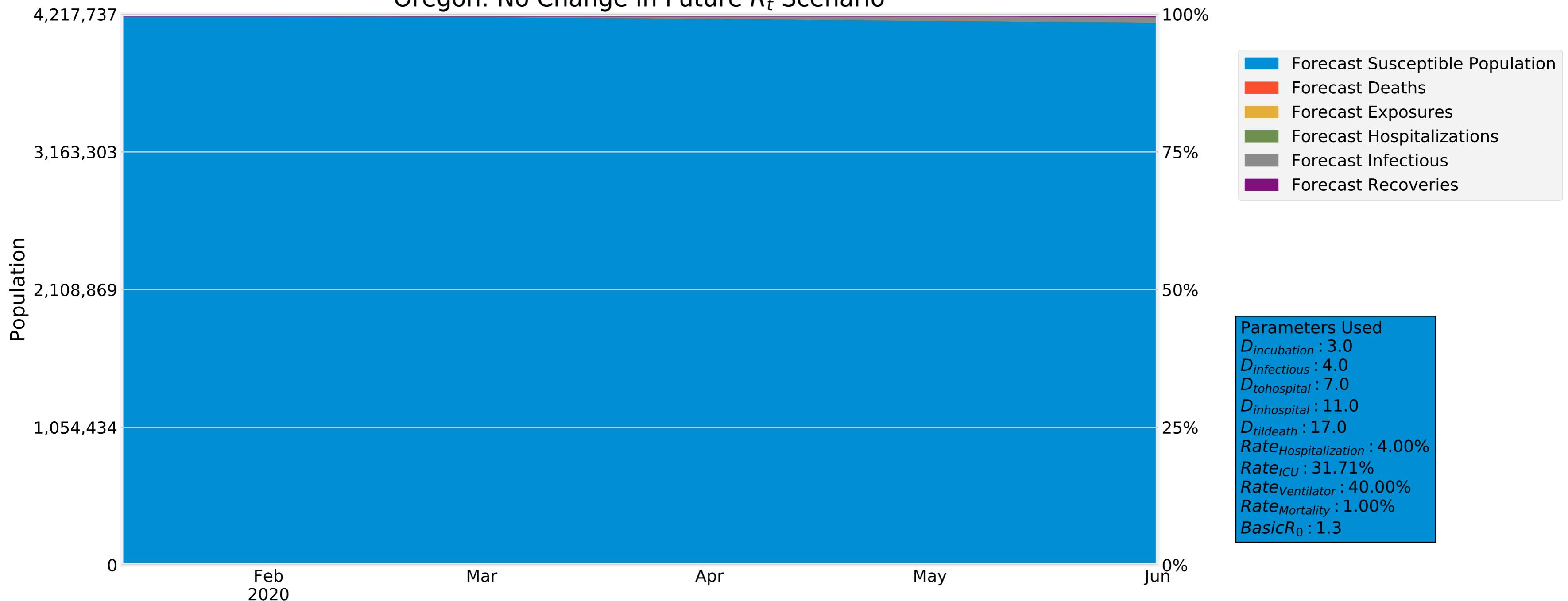
Oregon: No Change in Future R_t Scenario



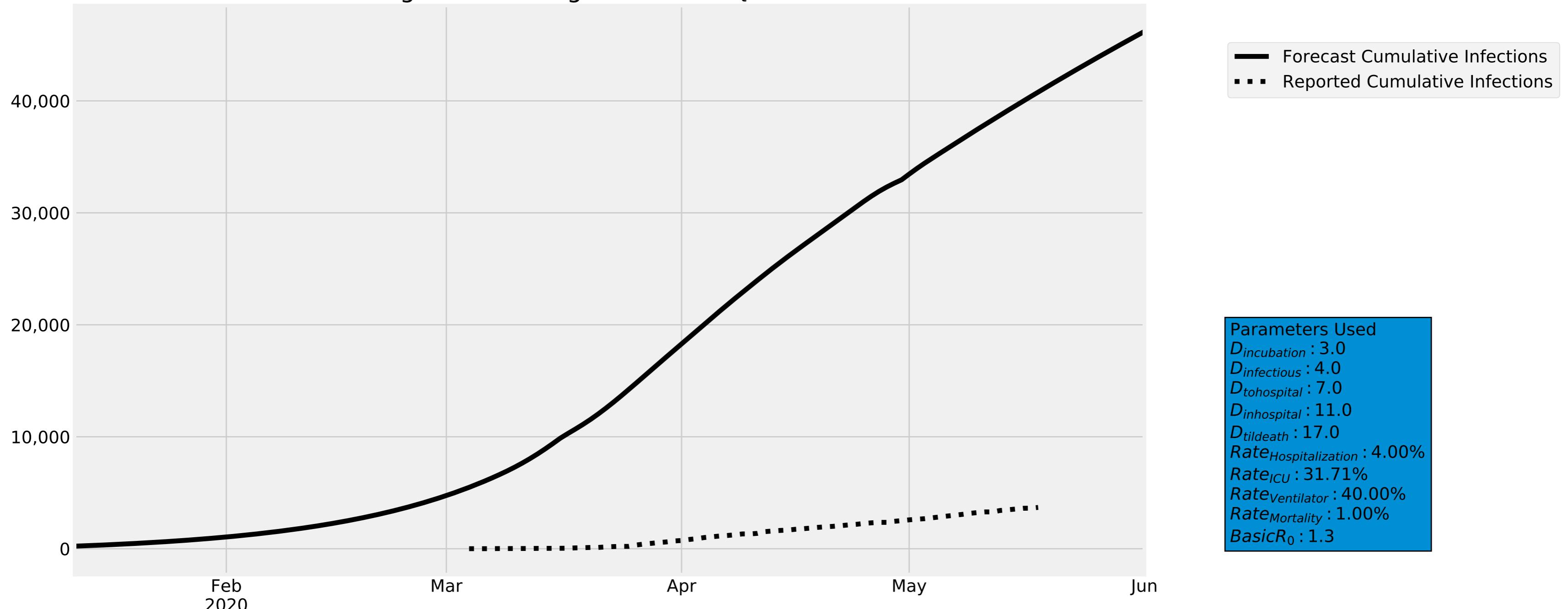
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

Oregon: No Change in Future R_t Scenario



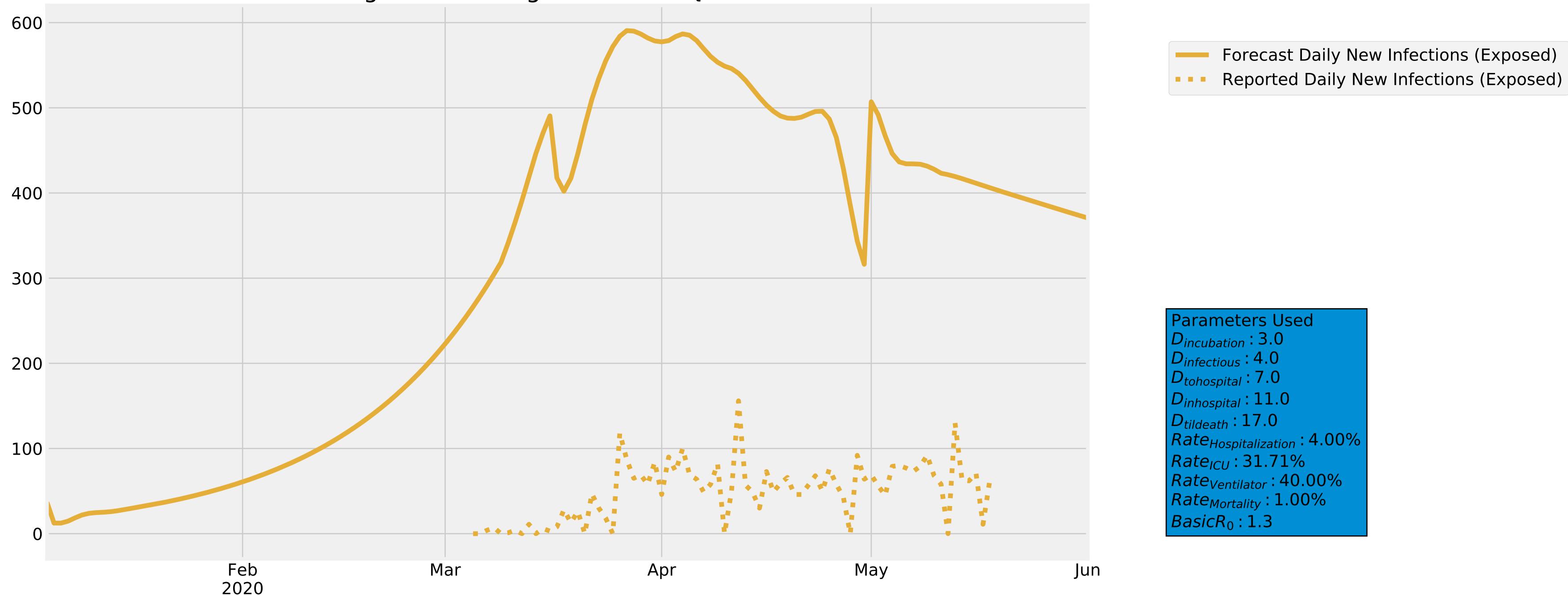
Cumulative Infections Forecast Oregon: No Change in Future R_t Scenario



Parameters Used

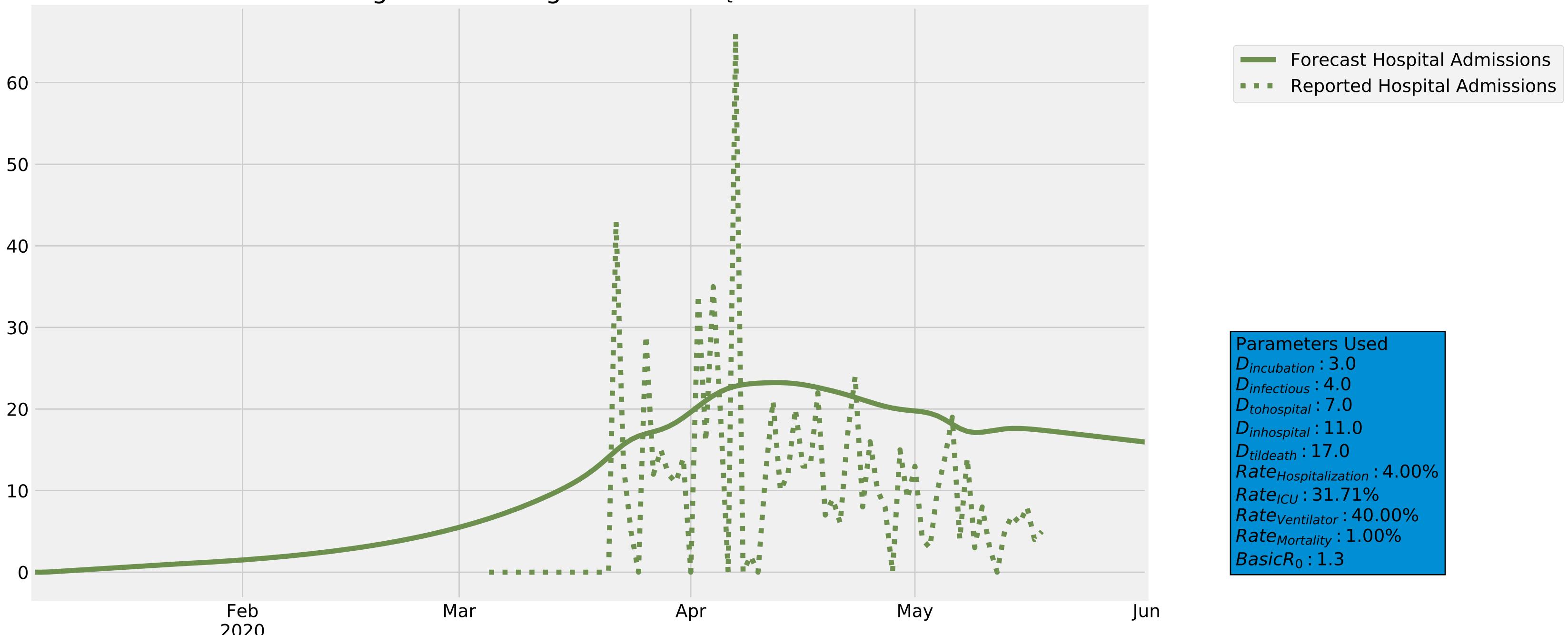
- $D_{incubation}$: 3.0
- $D_{infectious}$: 4.0
- $D_{tohospital}$: 7.0
- $D_{inhospital}$: 11.0
- $D_{tildeath}$: 17.0
- $Rate_{Hospitalization}$: 4.00%
- $Rate_{ICU}$: 31.71%
- $Rate_{Ventilator}$: 40.00%
- $Rate_{Mortality}$: 1.00%
- $BasicR_0$: 1.3

Daily Exposures Forecast Oregon: No Change in Future R_t Scenario



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

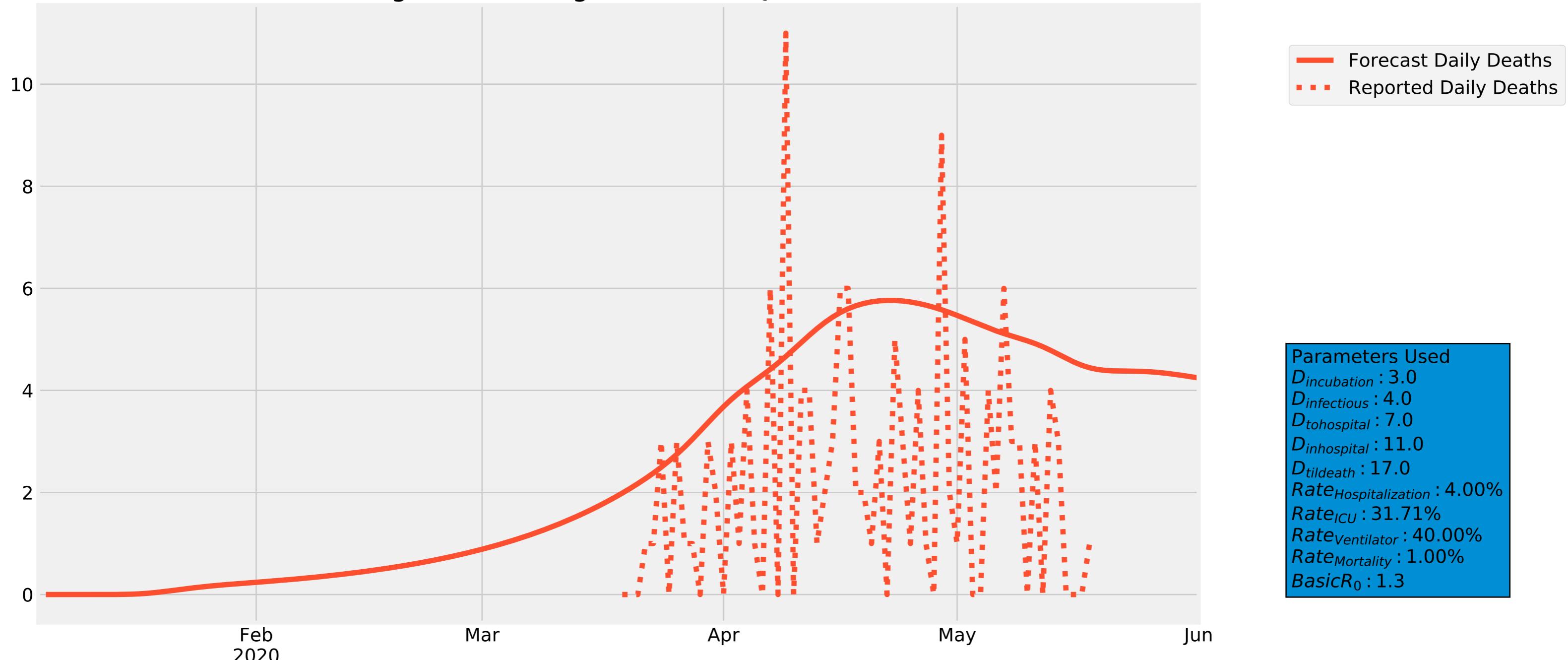
Daily Hospital Admissions Forecast Oregon: No Change in Future R_t Scenario



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

Daily Deaths Forecast

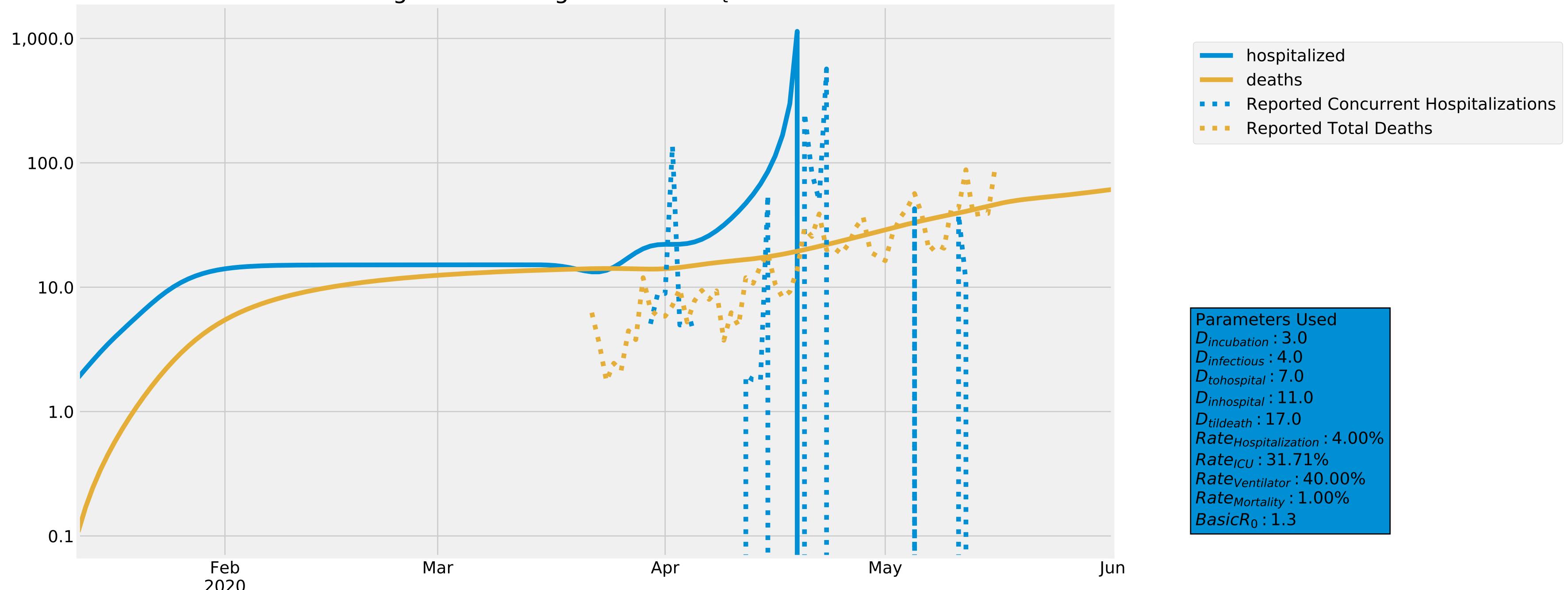
Oregon: No Change in Future R_t Scenario



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

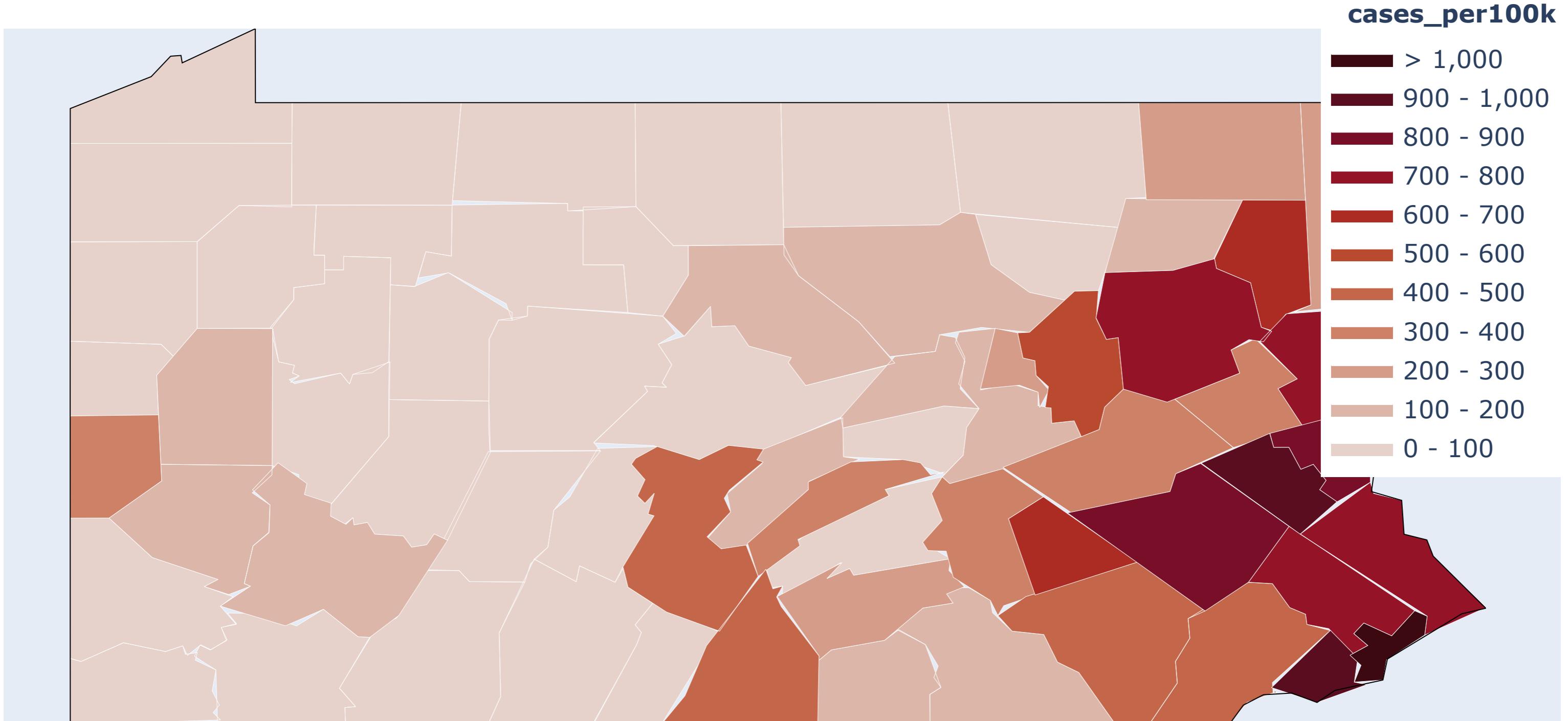
Doubling Rate Forecast

Oregon: No Change in Future R_t Scenario

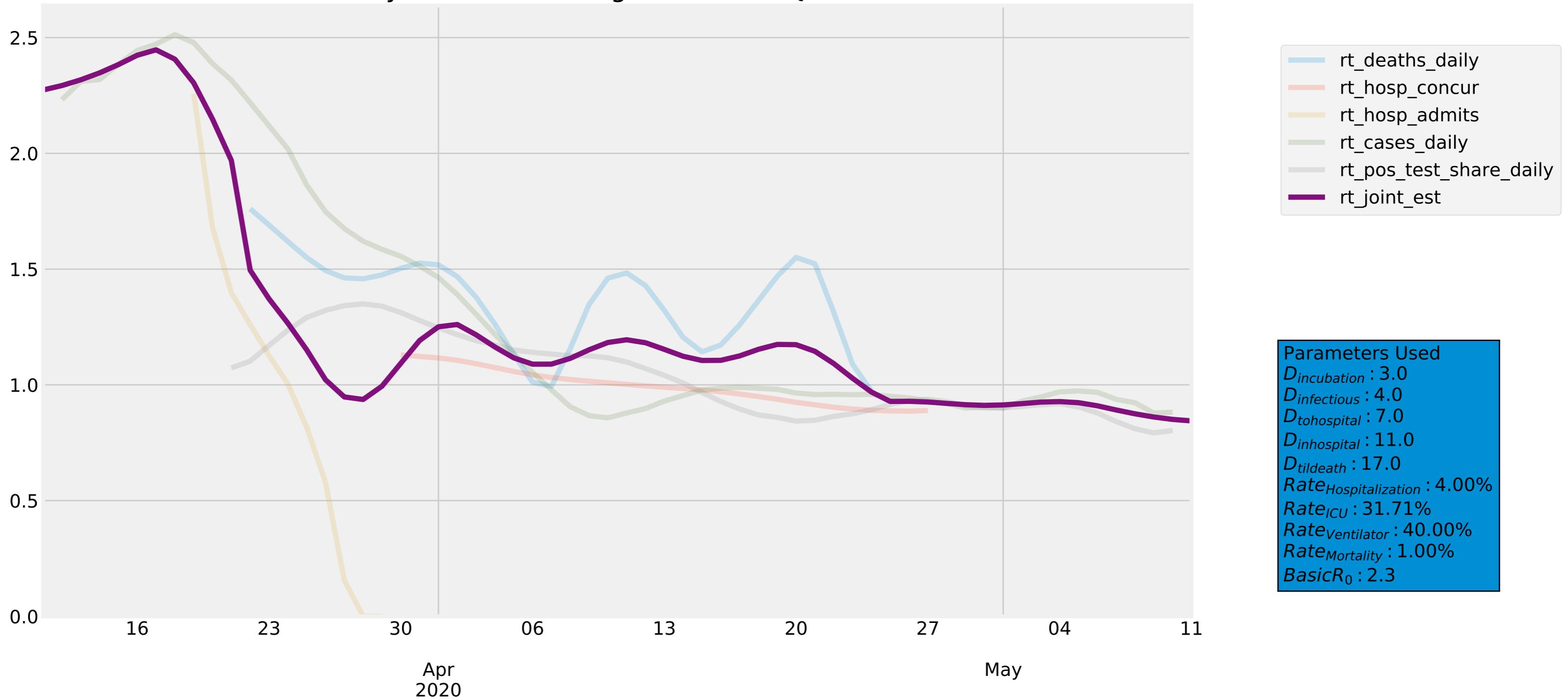


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Pennsylvania: COVID-19 Cases Per 100k Residents



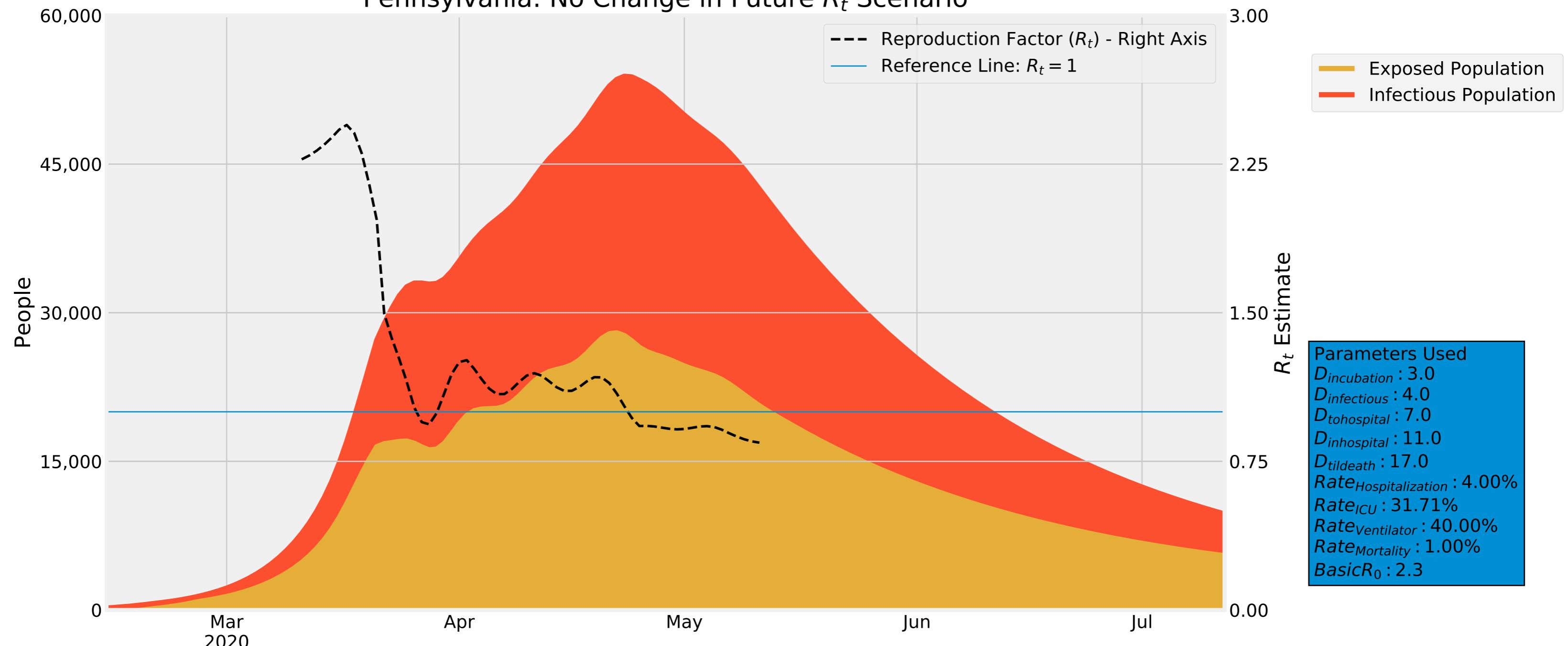
Reproduction Rate (R_t) Estimates Pennsylvania: No Change in Future R_t Scenario



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

Simultaneous Infections Forecast

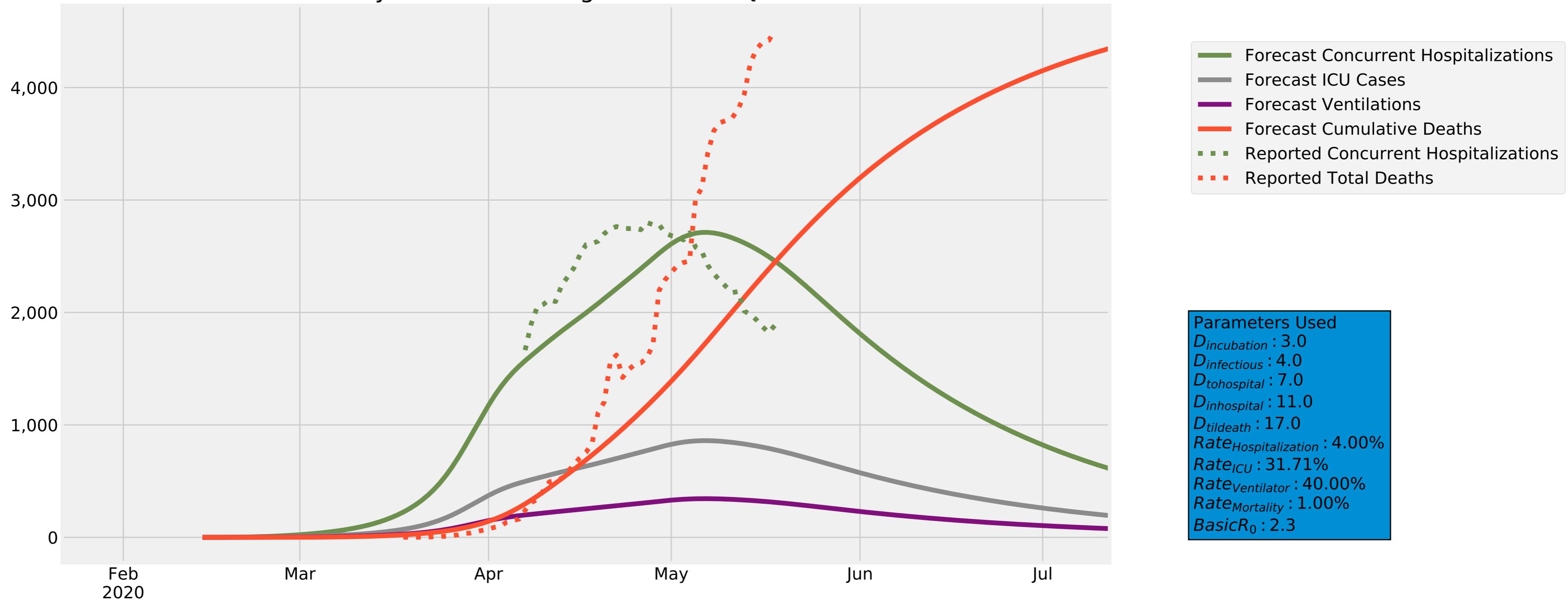
Pennsylvania: No Change in Future R_t Scenario



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

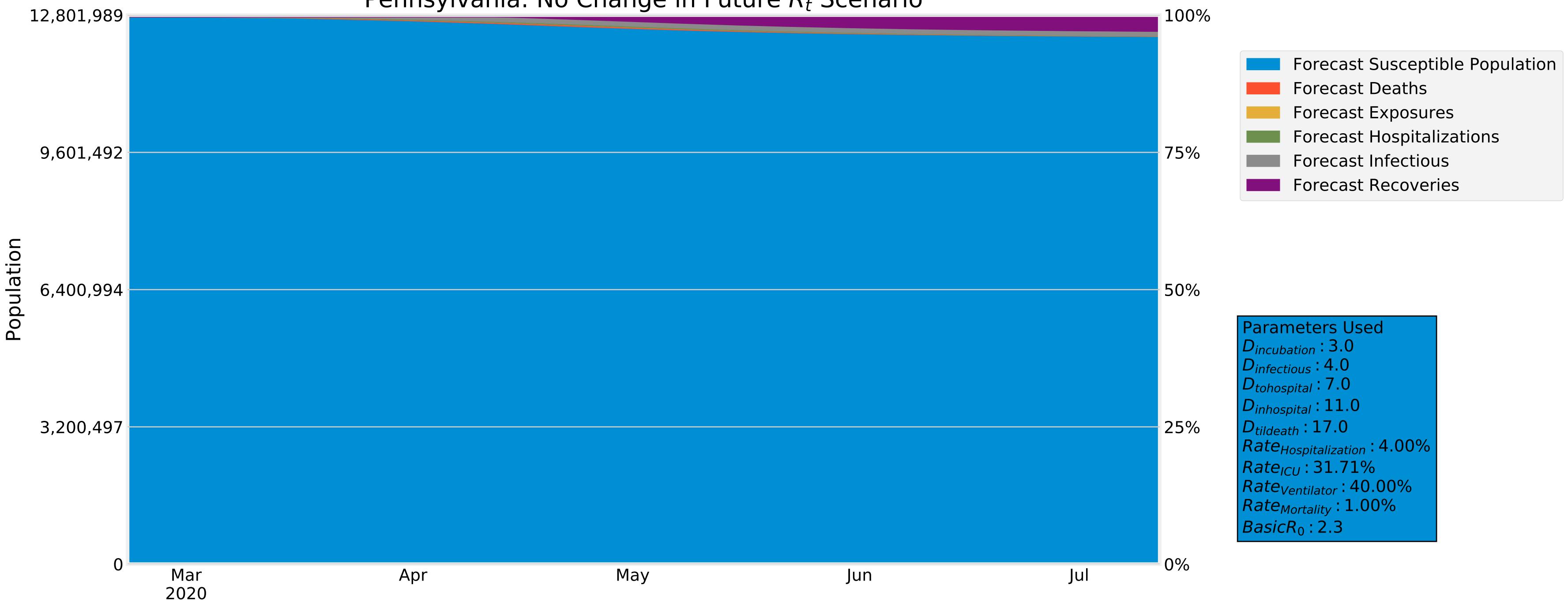
Hospitalization and Deaths Forecast

Pennsylvania: No Change in Future R_t Scenario

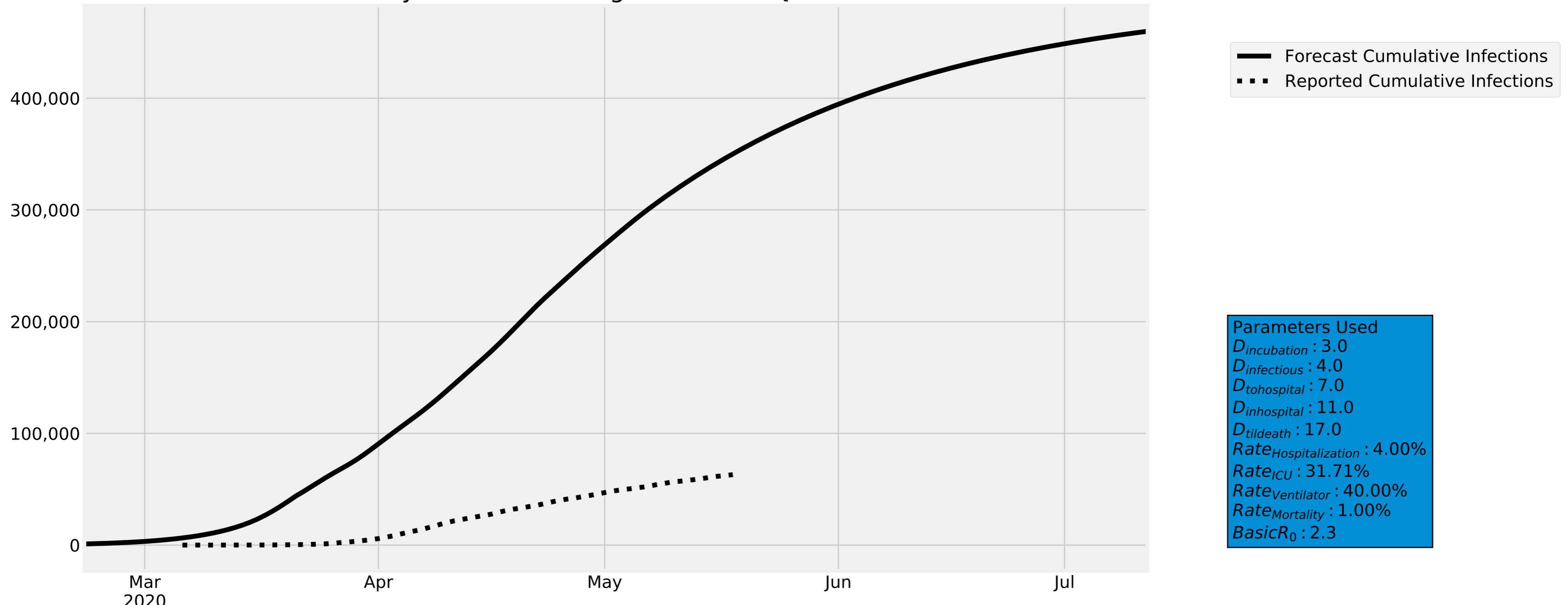


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast Pennsylvania: No Change in Future R_t Scenario



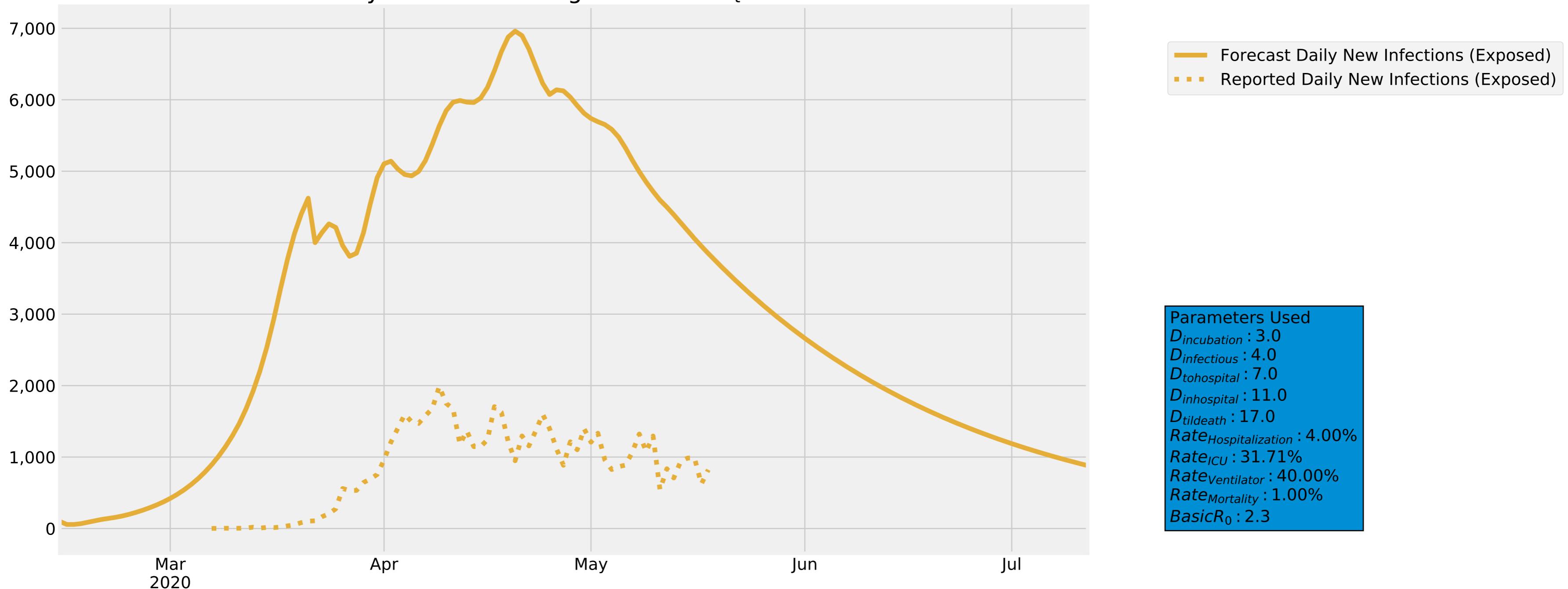
Cumulative Infections Forecast Pennsylvania: No Change in Future R_t Scenario



Parameters Used

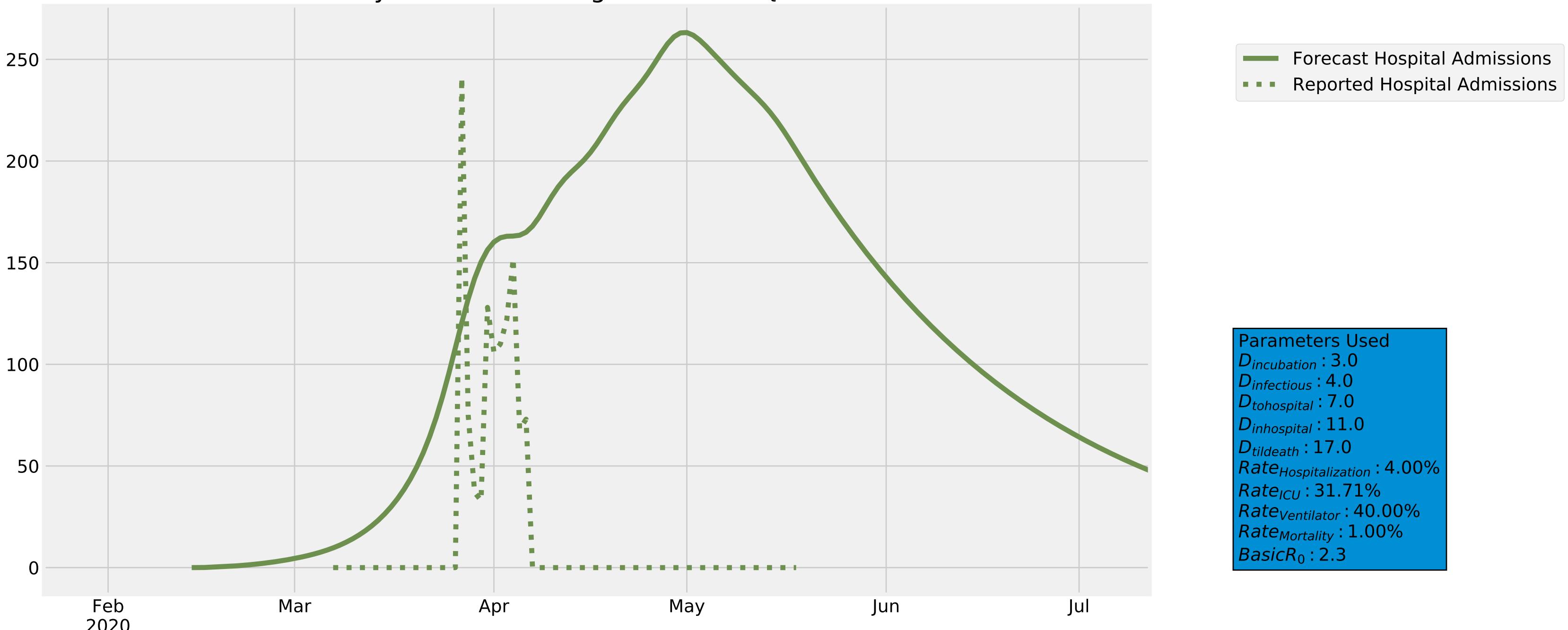
$D_{incubation}$: 3.0
 $D_{infectious}$: 4.0
 $D_{tohospital}$: 7.0
 $D_{inhospital}$: 11.0
 $D_{tildeath}$: 17.0
 $Rate_{Hospitalization}$: 4.00%
 $Rate_{ICU}$: 31.71%
 $Rate_{Ventilator}$: 40.00%
 $Rate_{Mortality}$: 1.00%
 $BasicR_0$: 2.3

Daily Exposures Forecast Pennsylvania: No Change in Future R_t Scenario



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

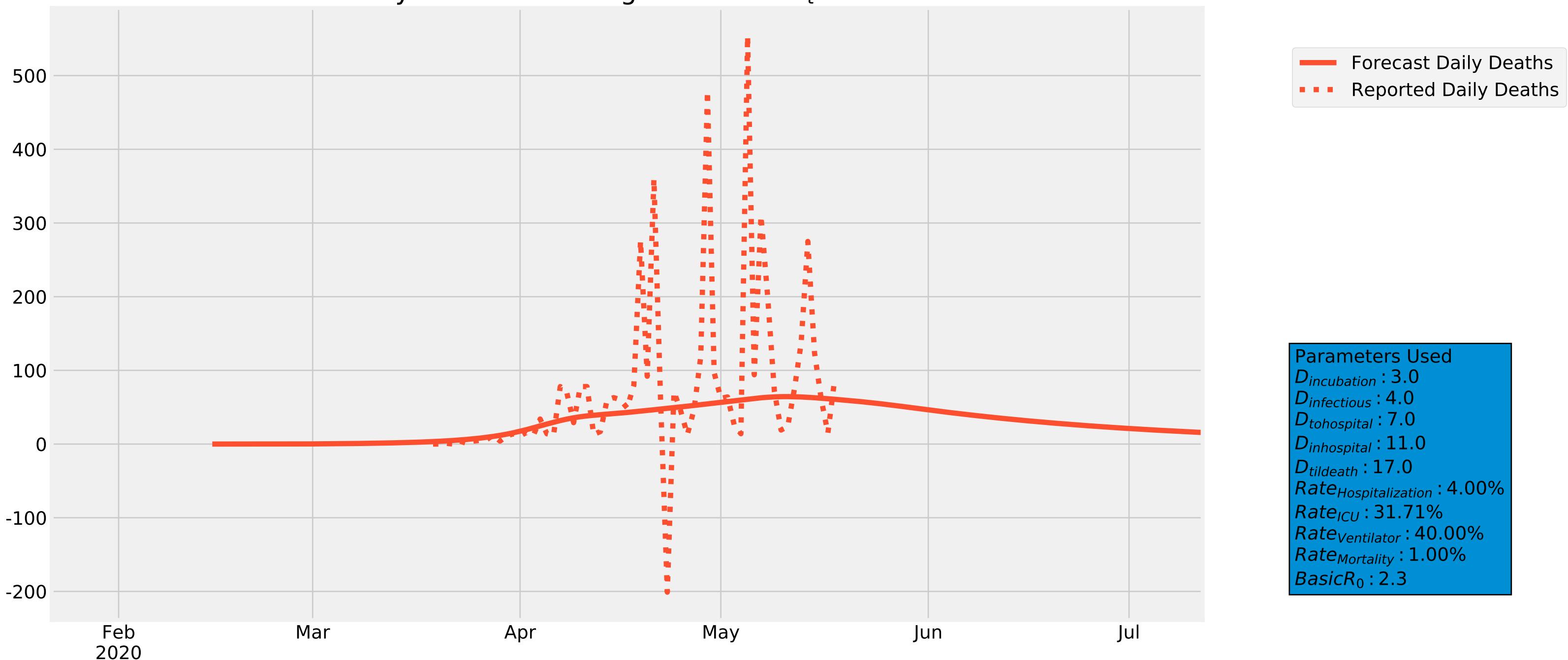
Daily Hospital Admissions Forecast Pennsylvania: No Change in Future R_t Scenario



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

Daily Deaths Forecast

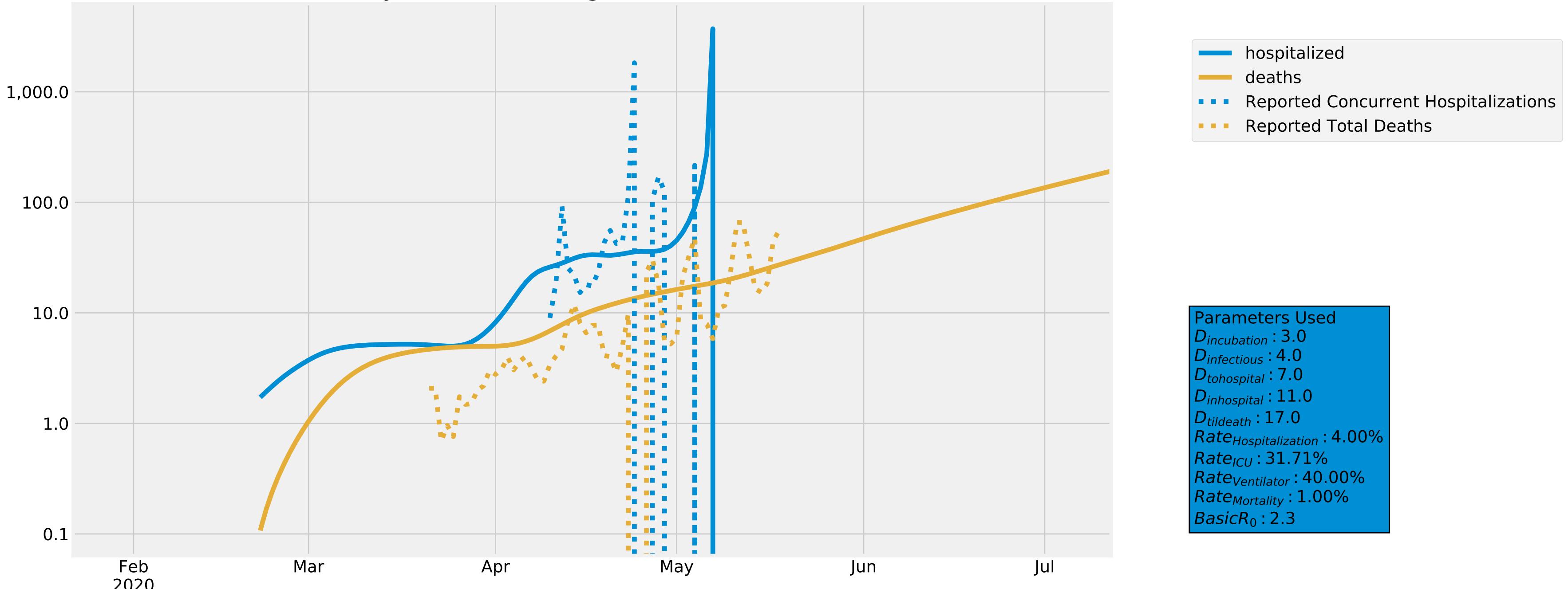
Pennsylvania: No Change in Future R_t Scenario



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

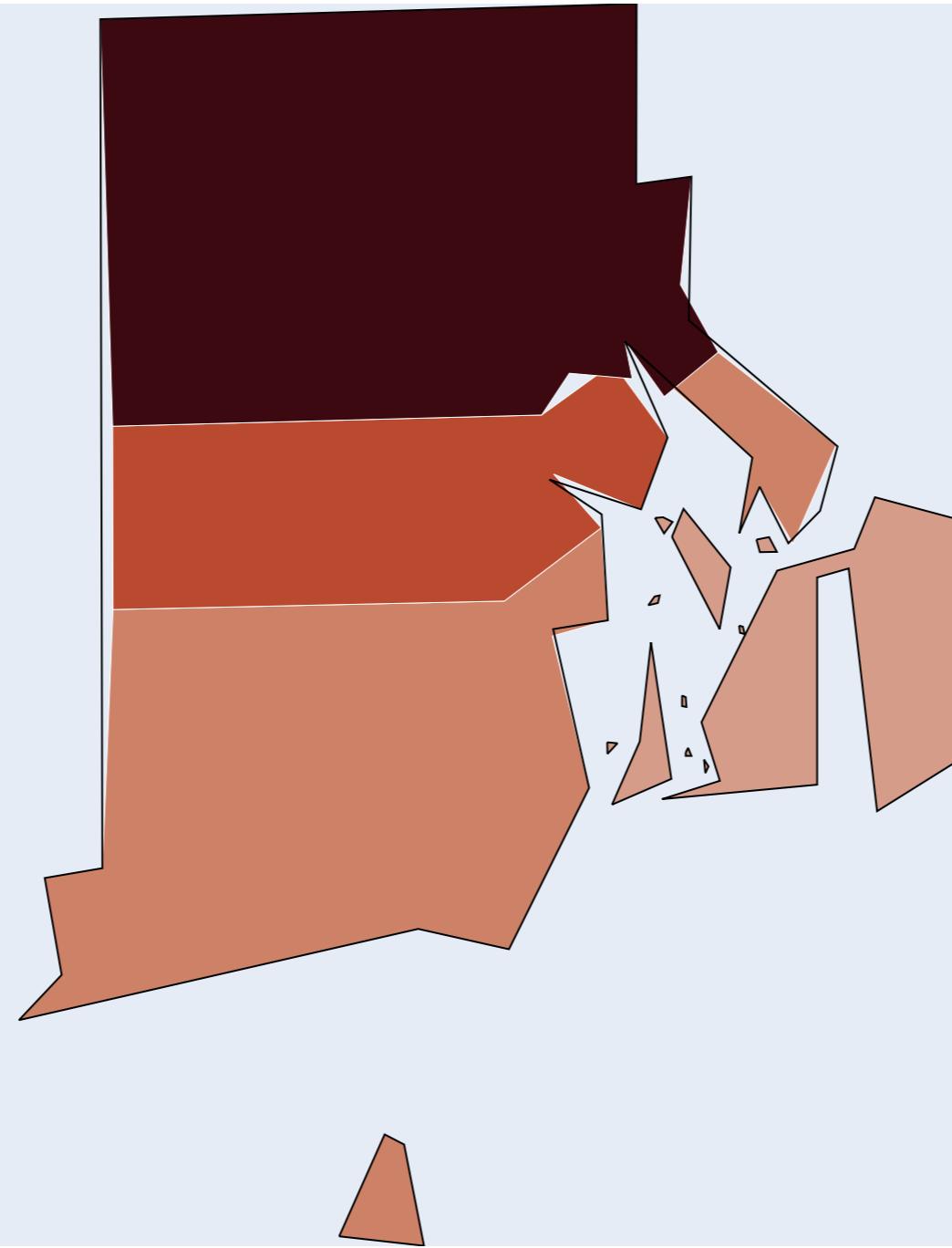
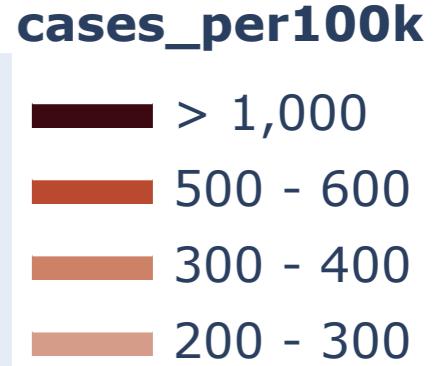
Doubling Rate Forecast

Pennsylvania: No Change in Future R_t Scenario

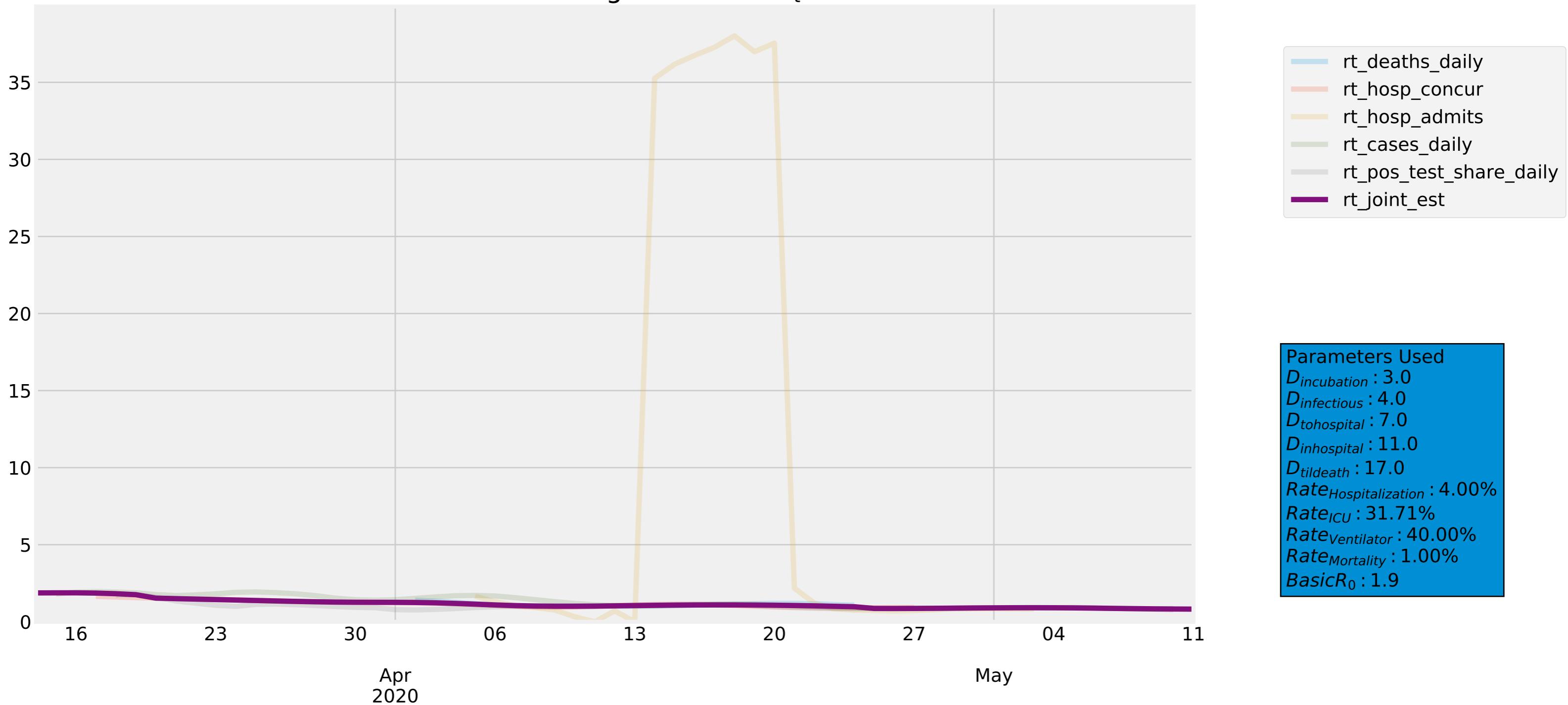


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Rhode Island: COVID-19 Cases Per 100k Residents



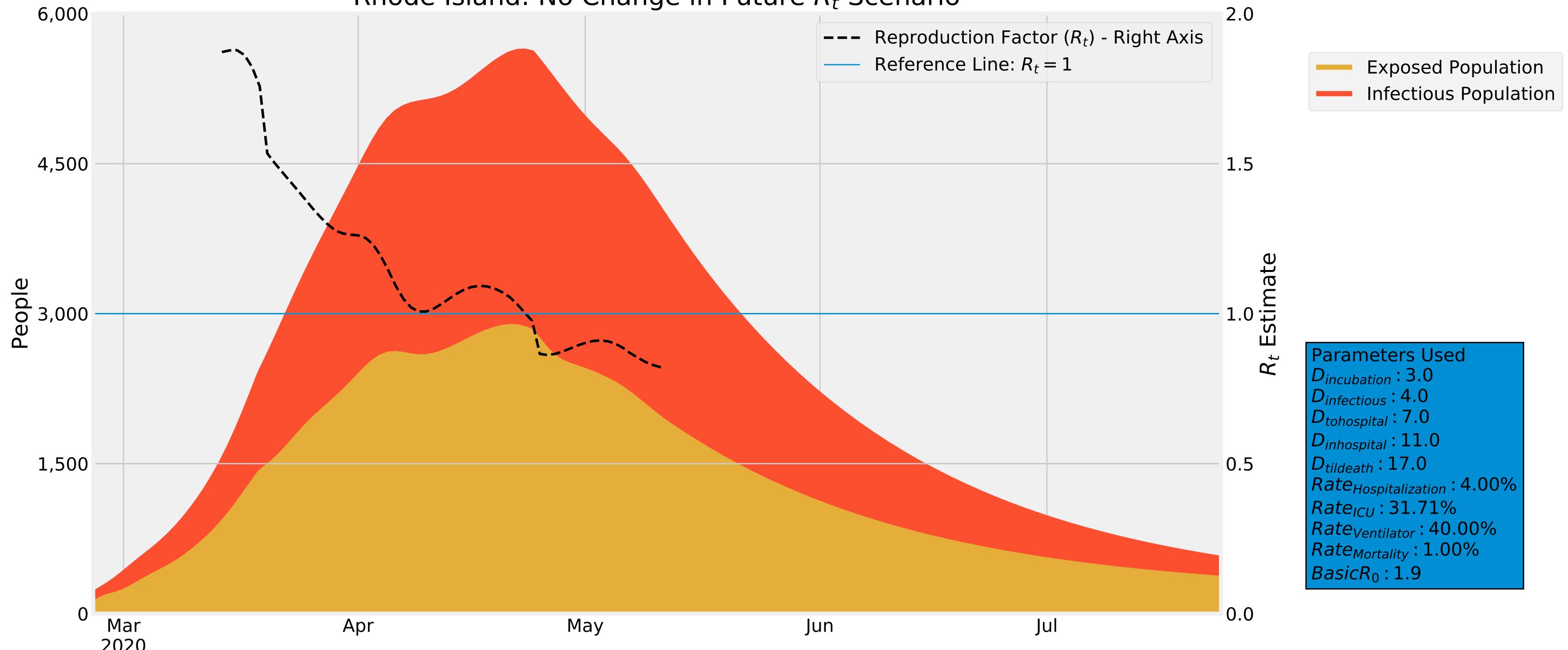
Reproduction Rate (R_t) Estimates Rhode Island: No Change in Future R_t Scenario



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

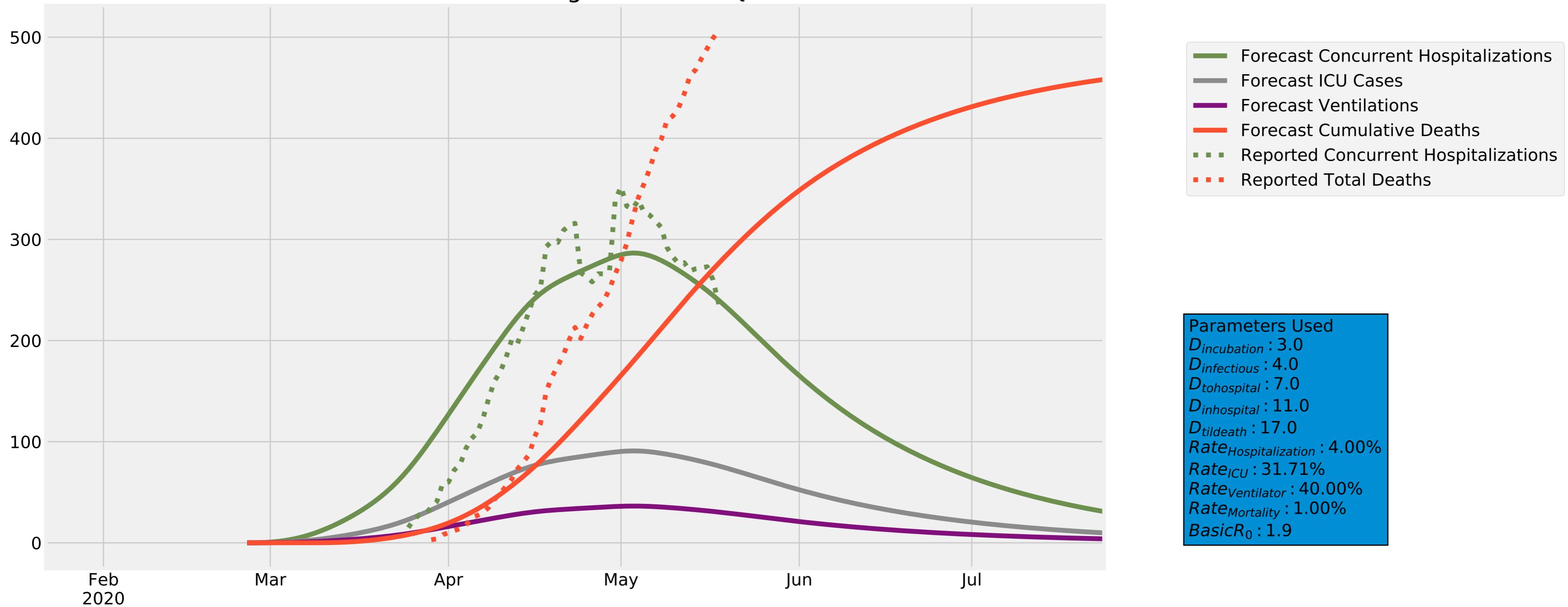
Simultaneous Infections Forecast

Rhode Island: No Change in Future R_t Scenario



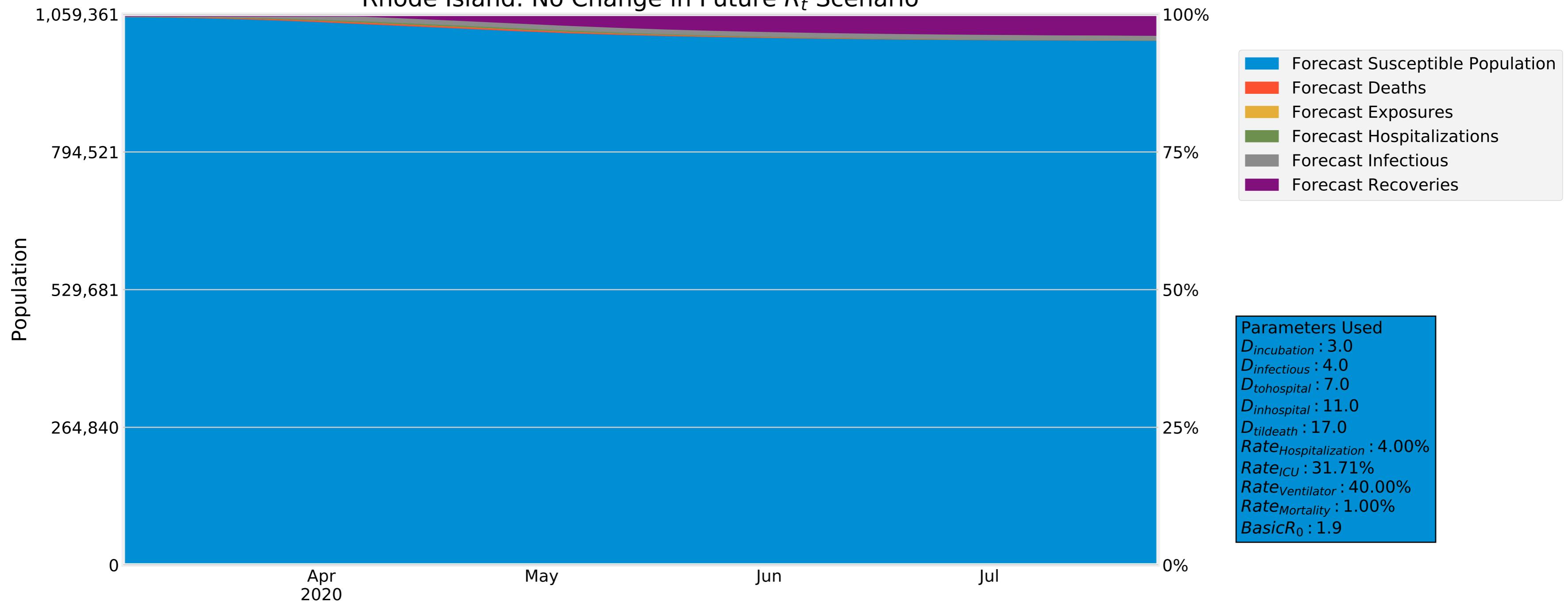
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Hospitalization and Deaths Forecast Rhode Island: No Change in Future R_t Scenario

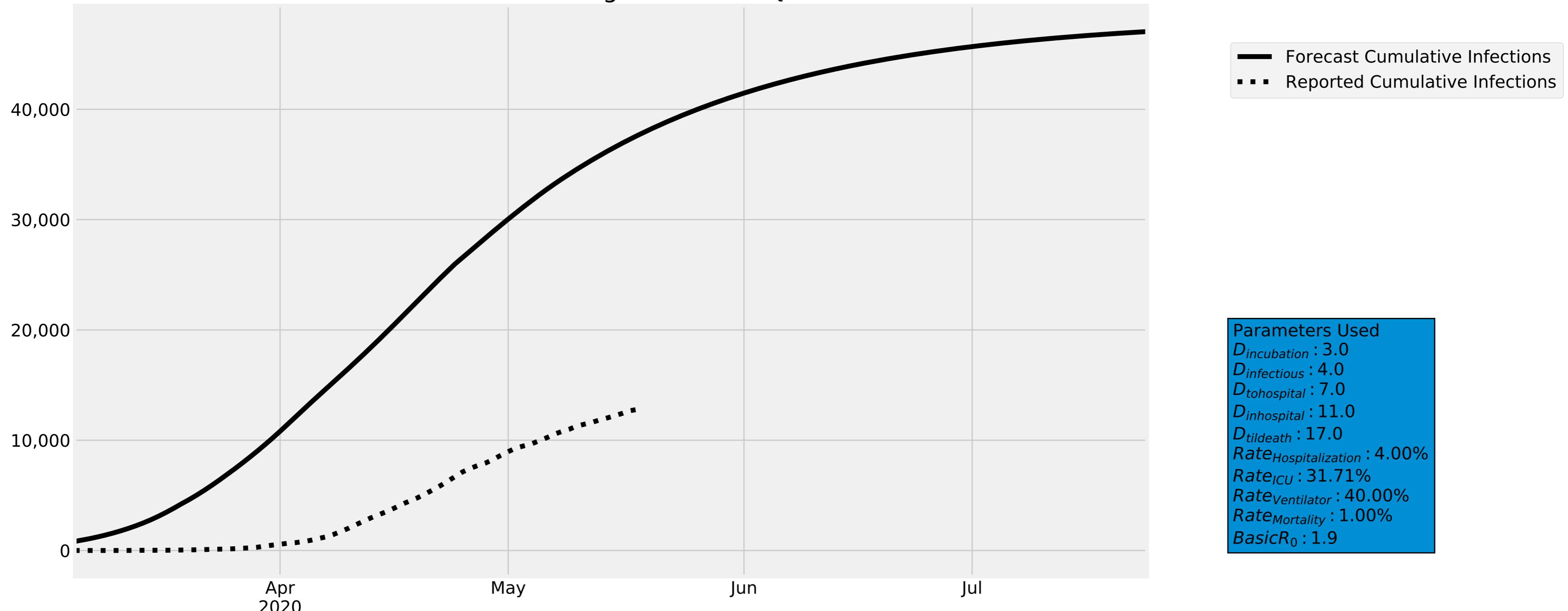


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast Rhode Island: No Change in Future R_t Scenario



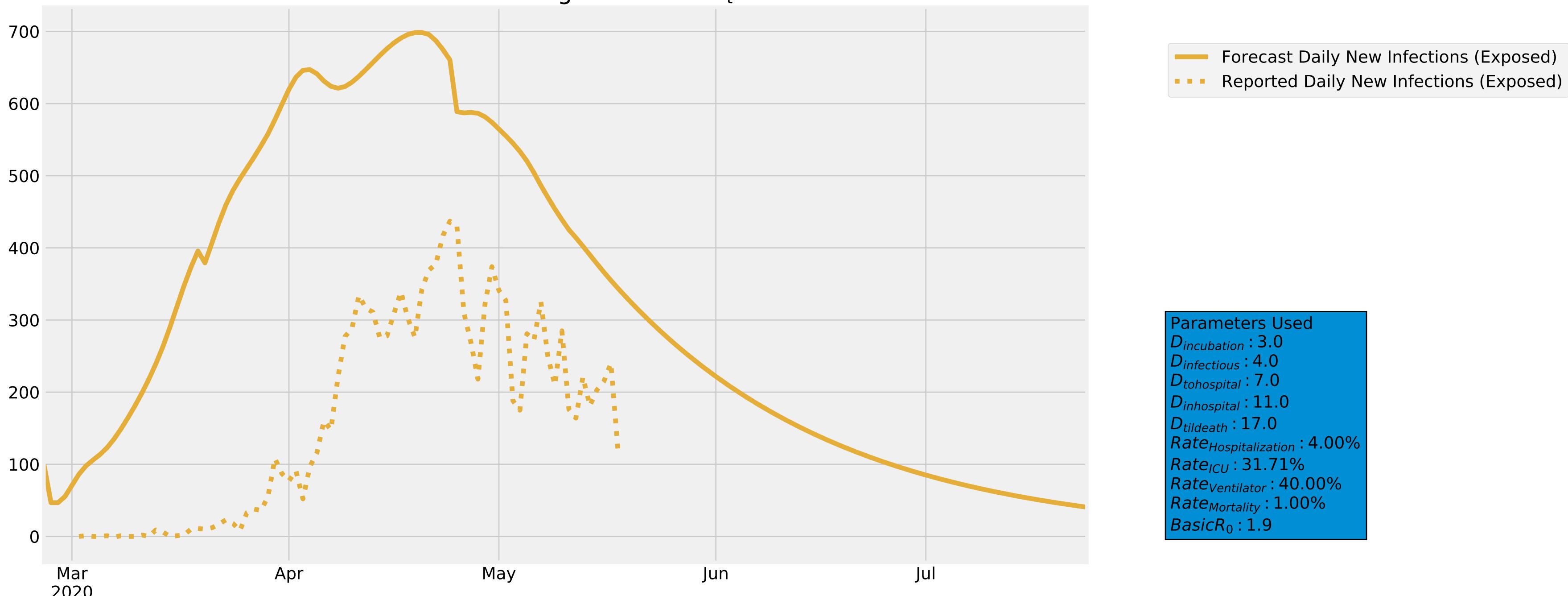
Cumulative Infections Forecast Rhode Island: No Change in Future R_t Scenario



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%
$BasicR_0$: 1.9

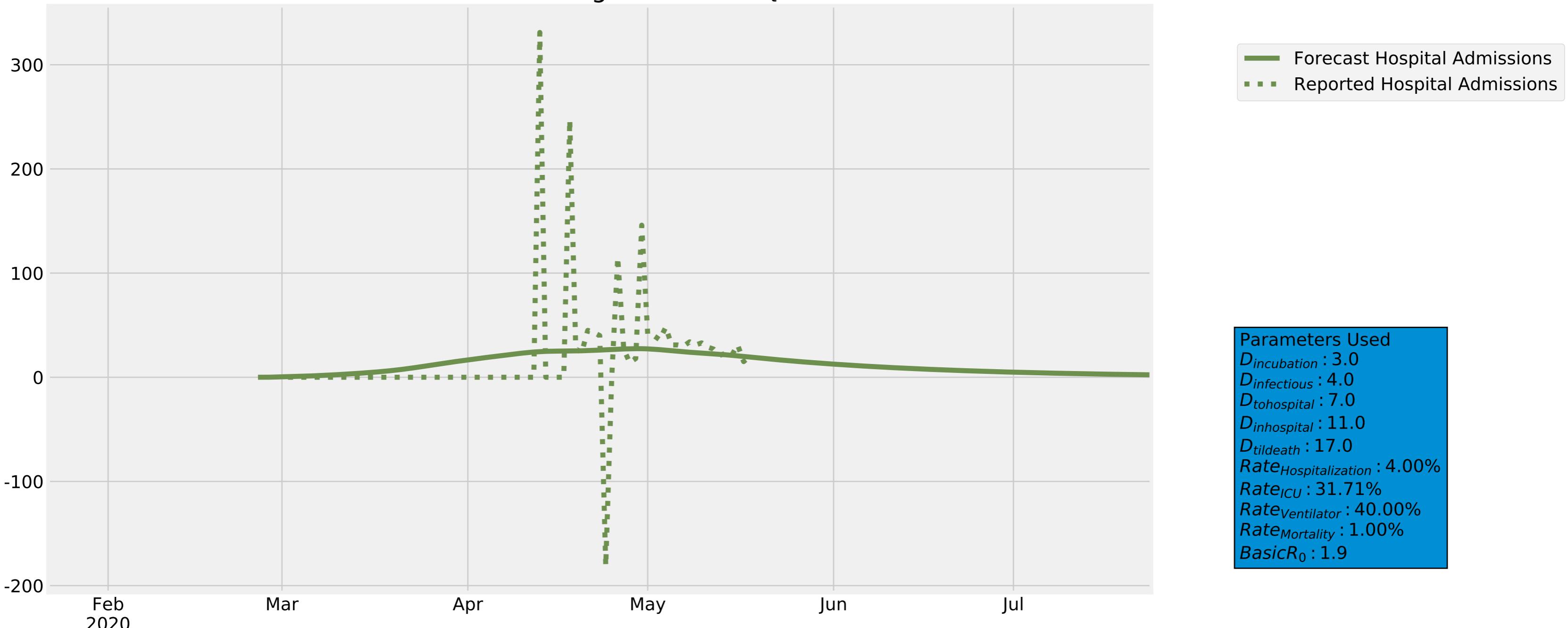
Daily Exposures Forecast Rhode Island: No Change in Future R_t Scenario



Parameters Used

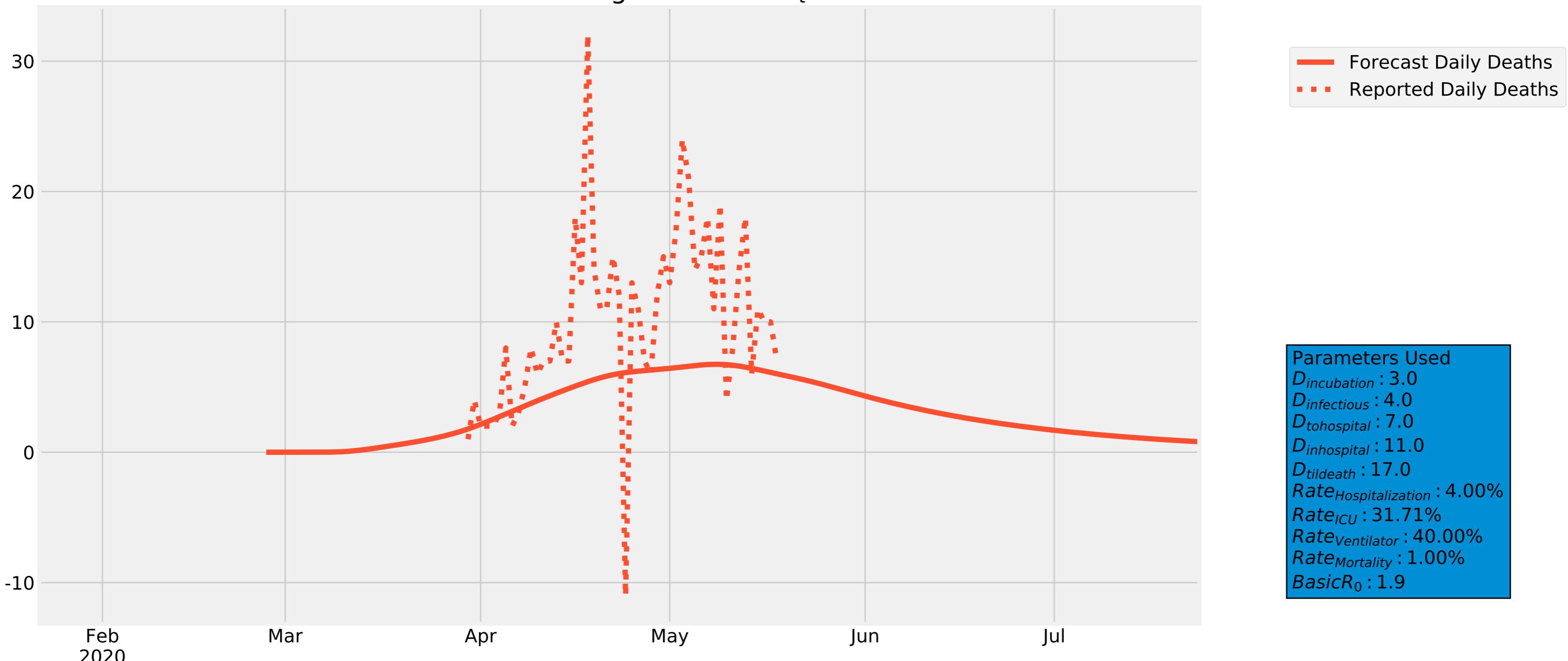
- $D_{incubation}$: 3.0
- $D_{infectious}$: 4.0
- $D_{tohospital}$: 7.0
- $D_{inhospital}$: 11.0
- $D_{tildeath}$: 17.0
- Rate_{Hospitalization} : 4.00%
- Rate_{ICU} : 31.71%
- Rate_{Ventilator} : 40.00%
- Rate_{Mortality} : 1.00%
- Basic R_0 : 1.9

Daily Hospital Admissions Forecast Rhode Island: No Change in Future R_t Scenario



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

Daily Deaths Forecast Rhode Island: No Change in Future R_t Scenario

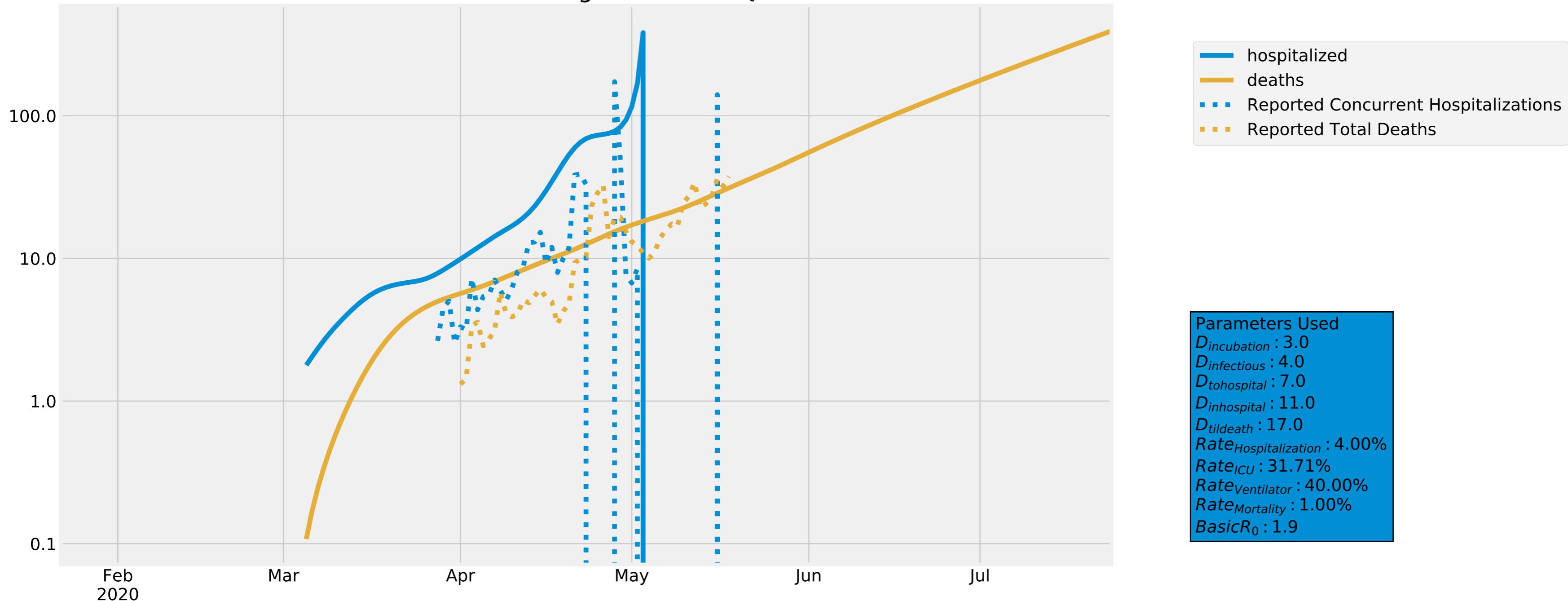


Parameters Used

$D_{incubation}$: 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%
 $BasicR_0$: 1.9

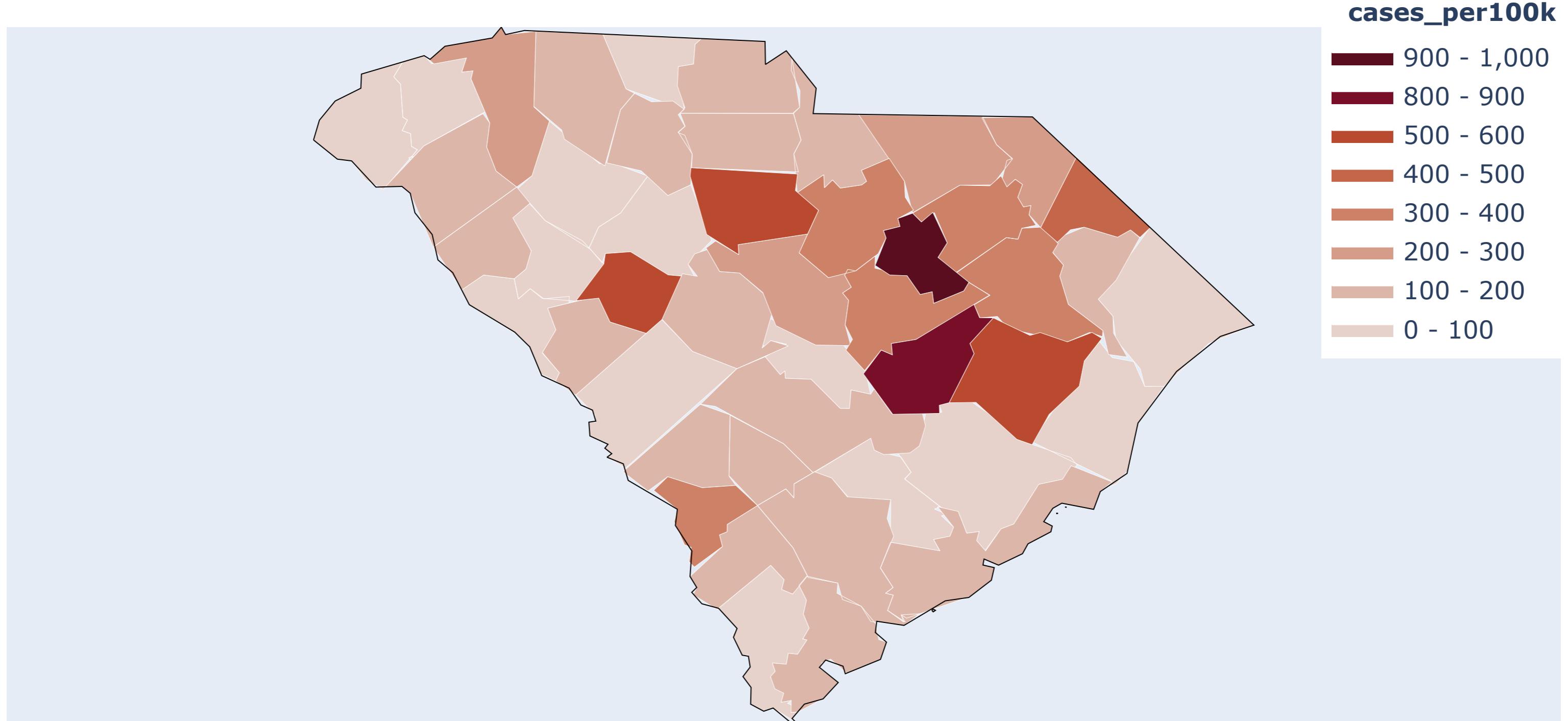
Doubling Rate Forecast

Rhode Island: No Change in Future R_t Scenario

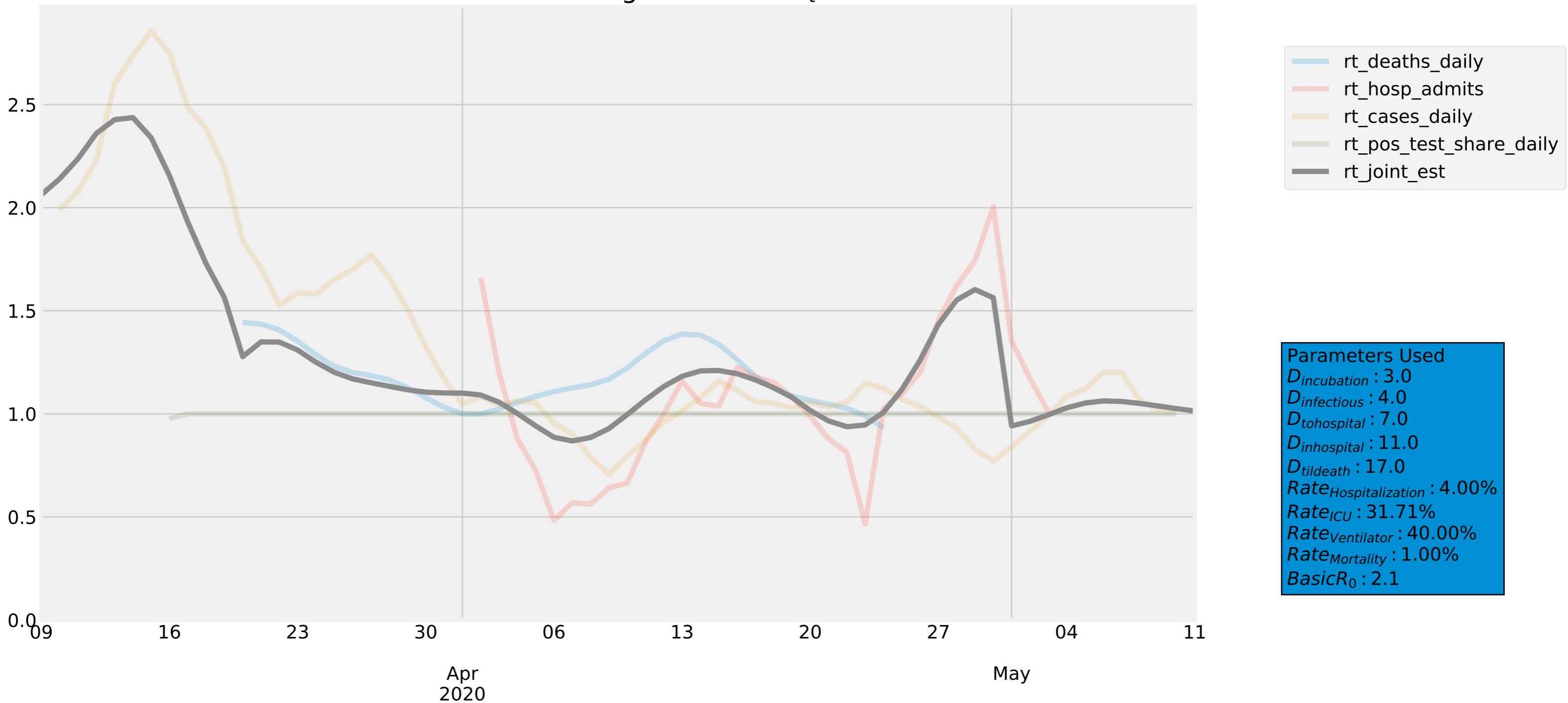


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

South Carolina: COVID-19 Cases Per 100k Residents



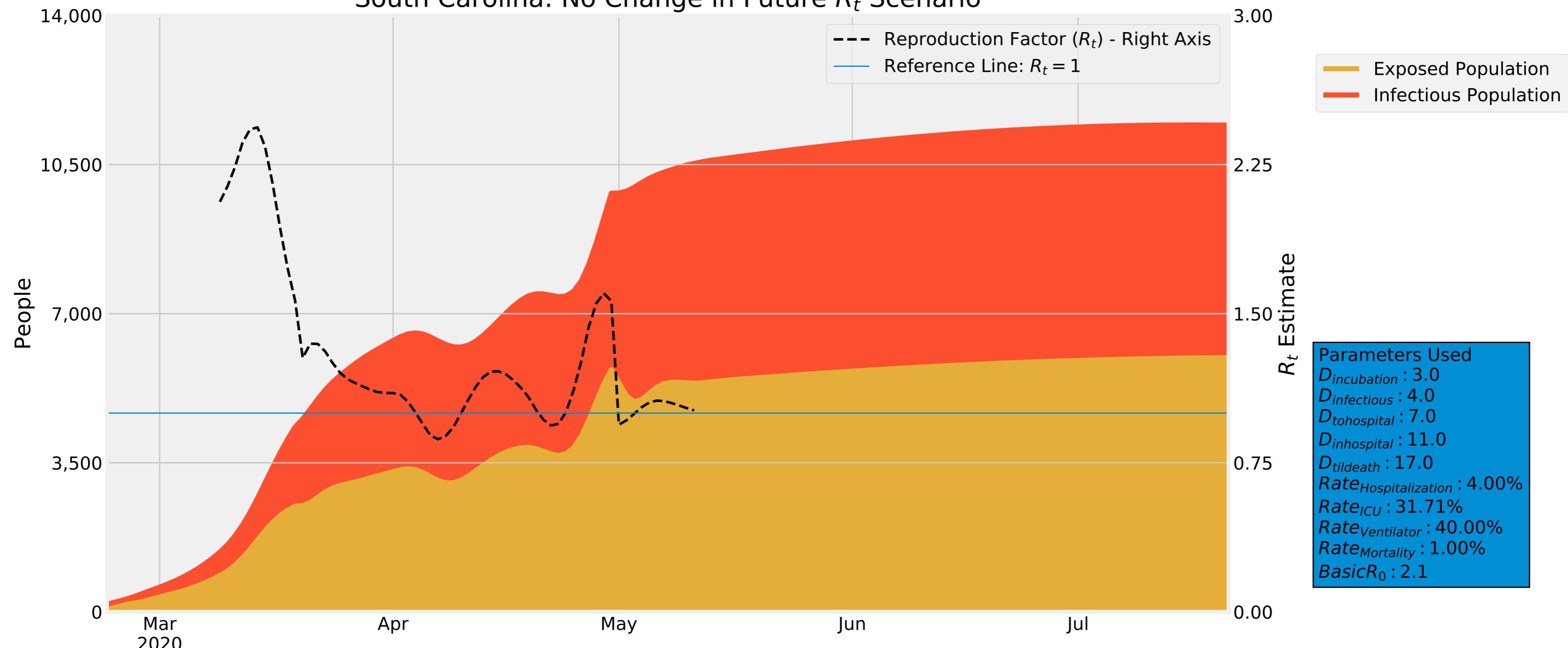
Reproduction Rate (R_t) Estimates South Carolina: No Change in Future R_t Scenario



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

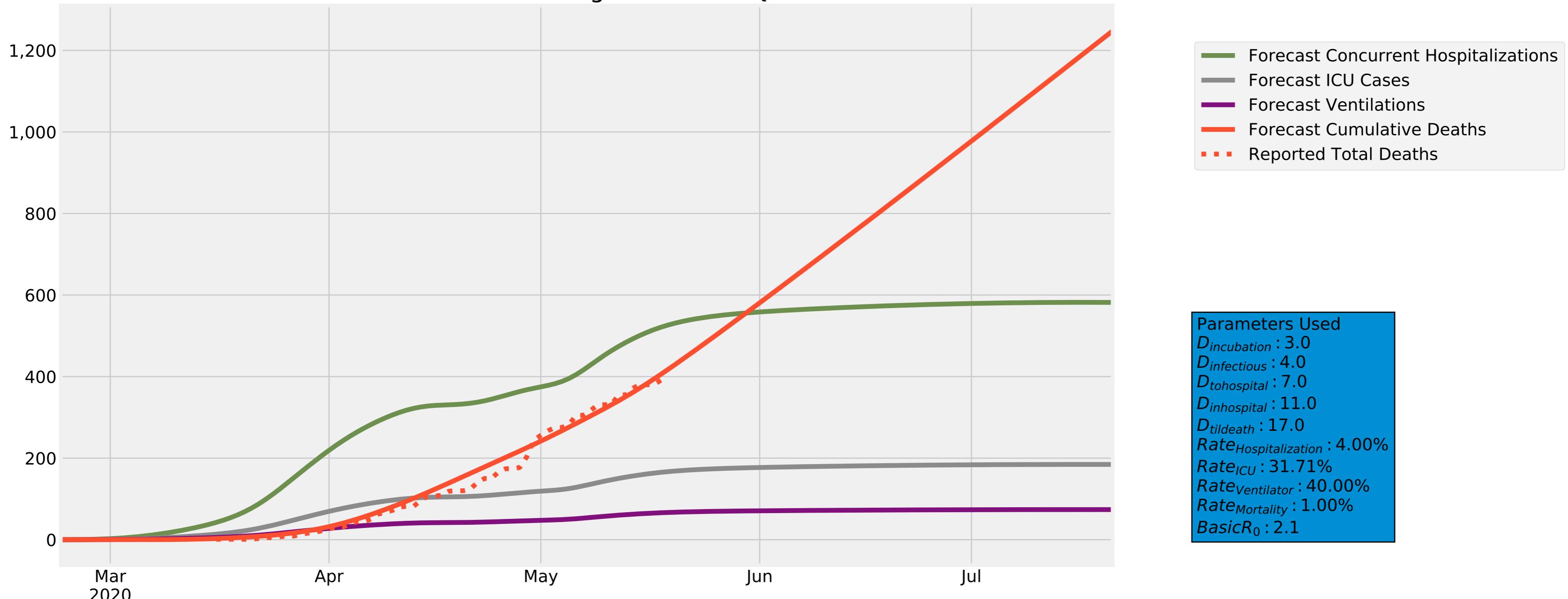
Simultaneous Infections Forecast

South Carolina: No Change in Future R_t Scenario



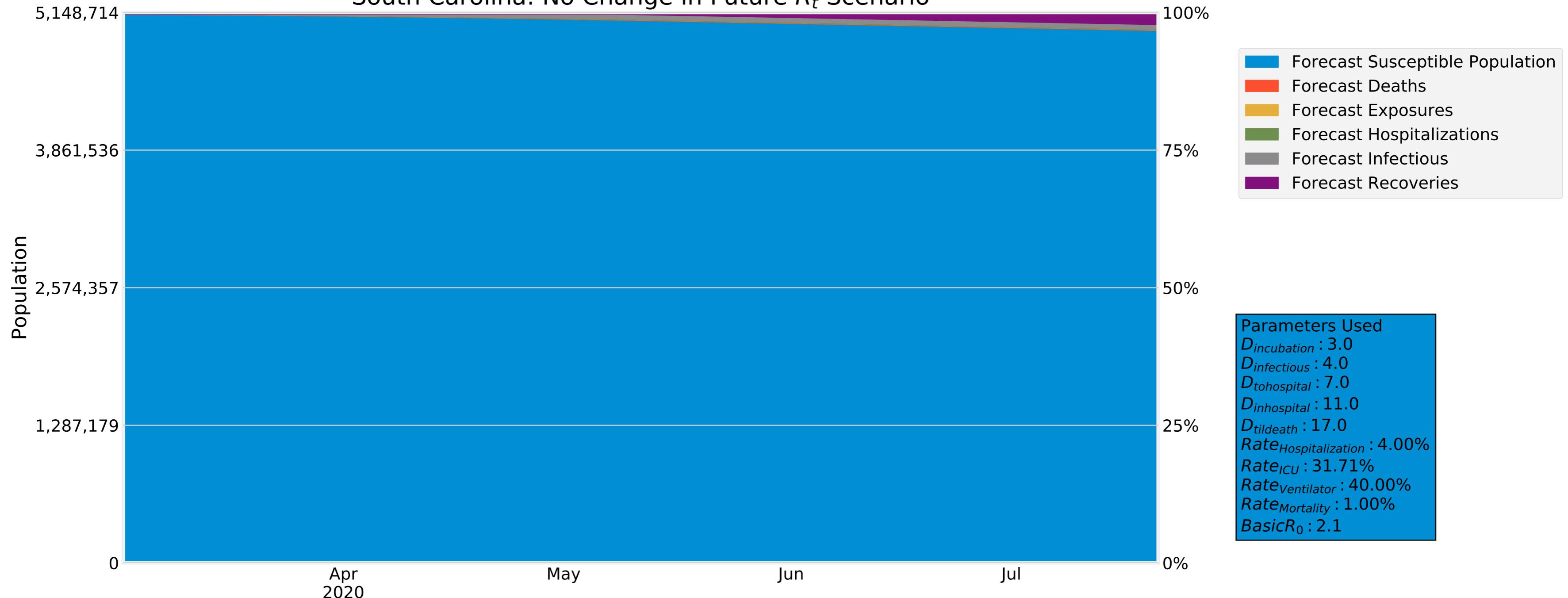
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Hospitalization and Deaths Forecast South Carolina: No Change in Future R_t Scenario

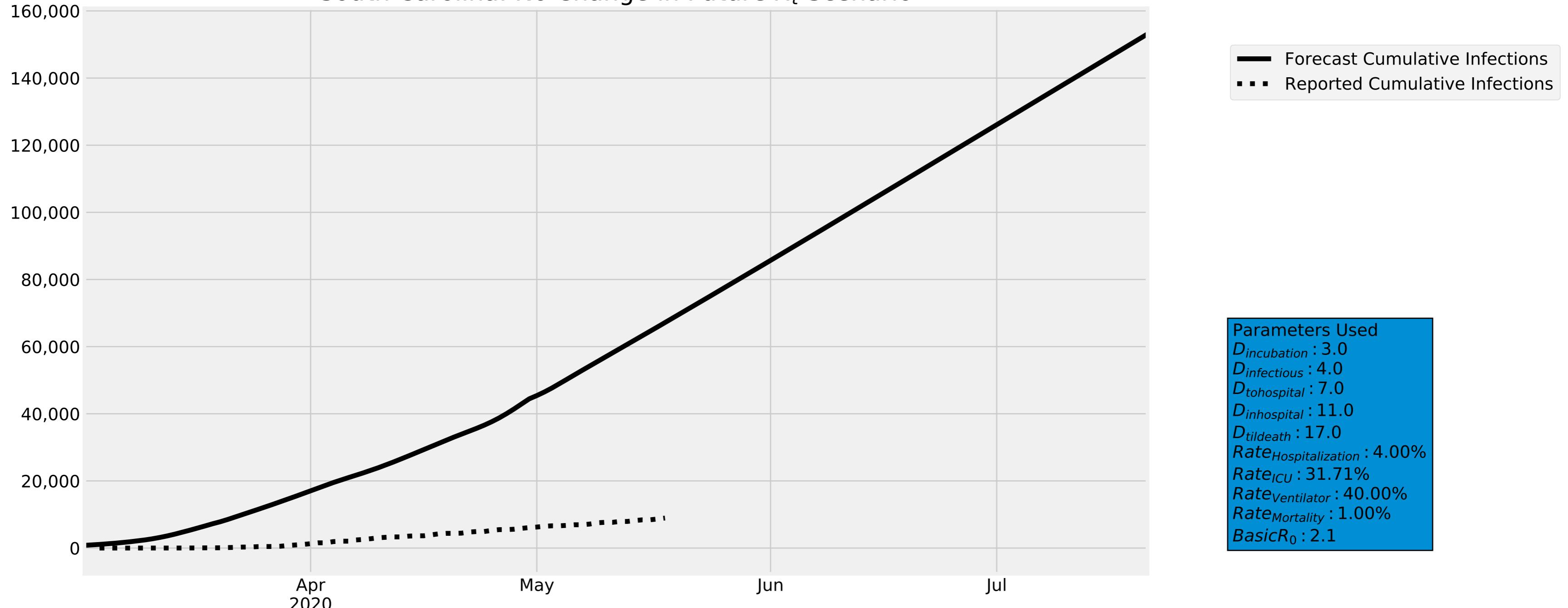


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast South Carolina: No Change in Future R_t Scenario



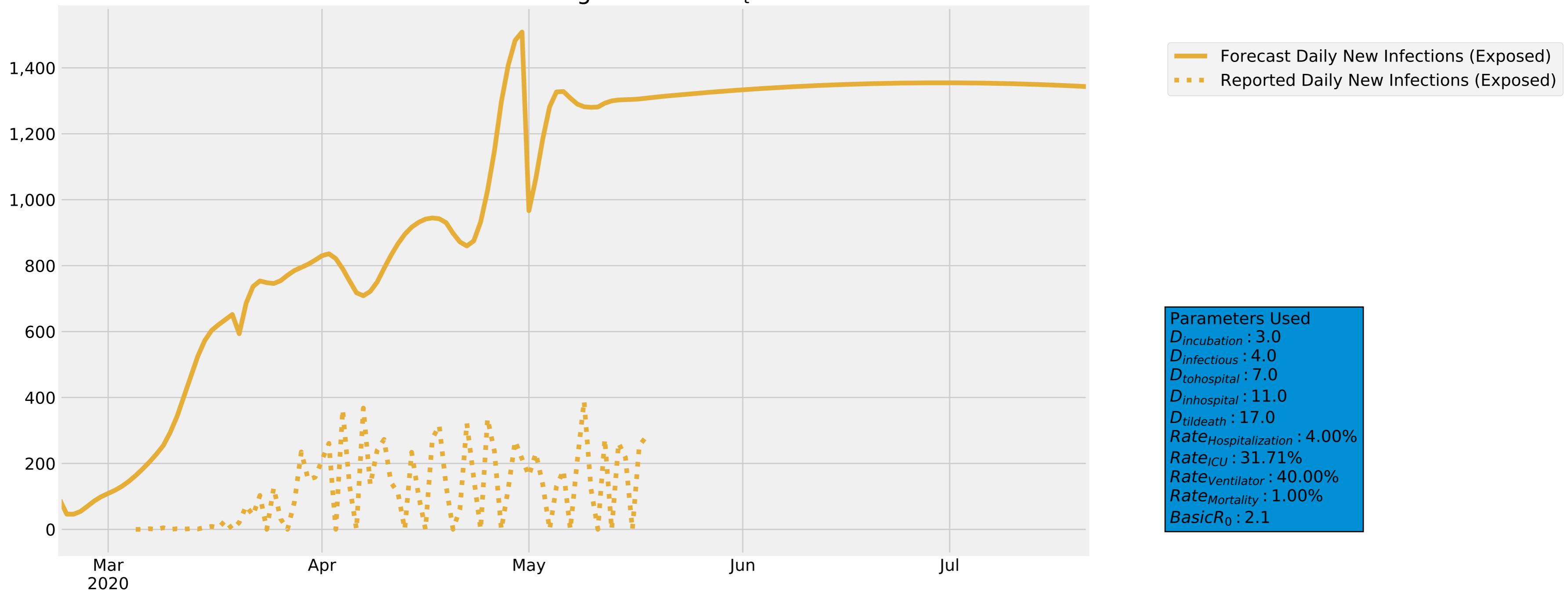
Cumulative Infections Forecast South Carolina: No Change in Future R_t Scenario



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%
- $BasicR_0$: 2.1

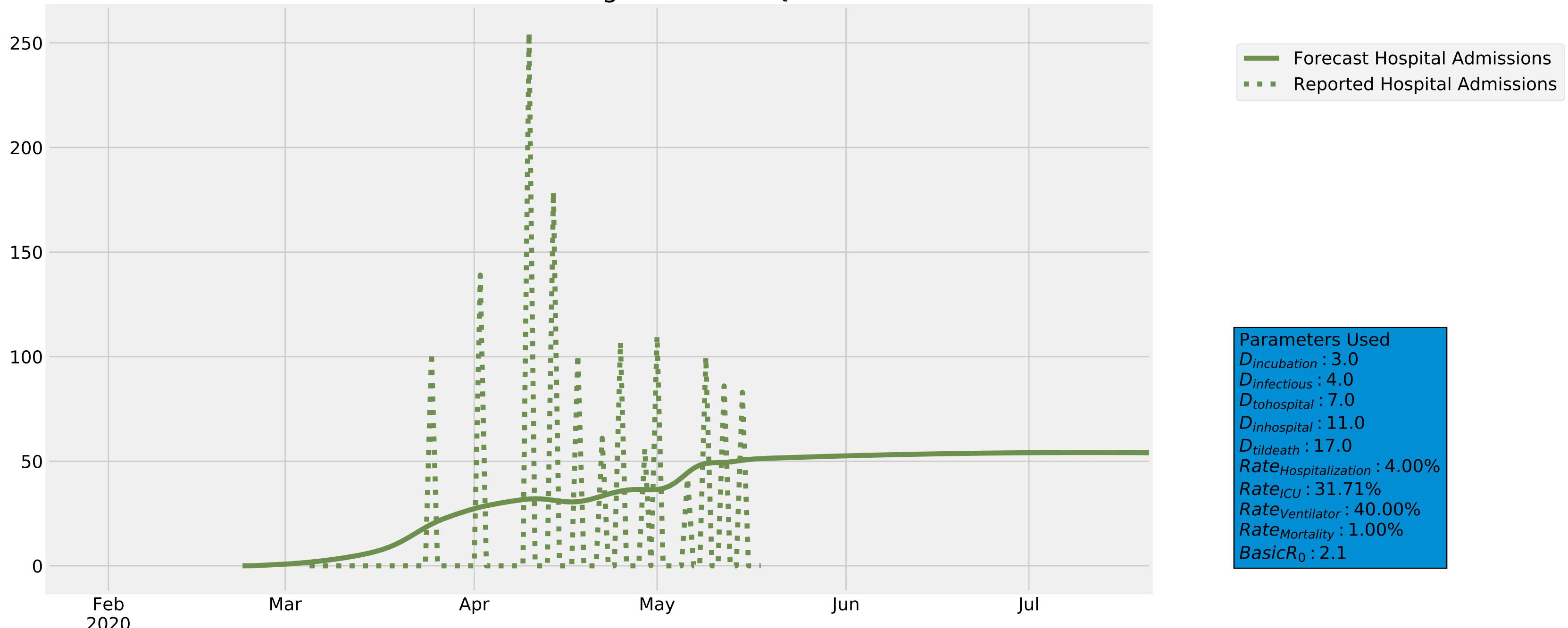
Daily Exposures Forecast South Carolina: No Change in Future R_t Scenario



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

Daily Hospital Admissions Forecast

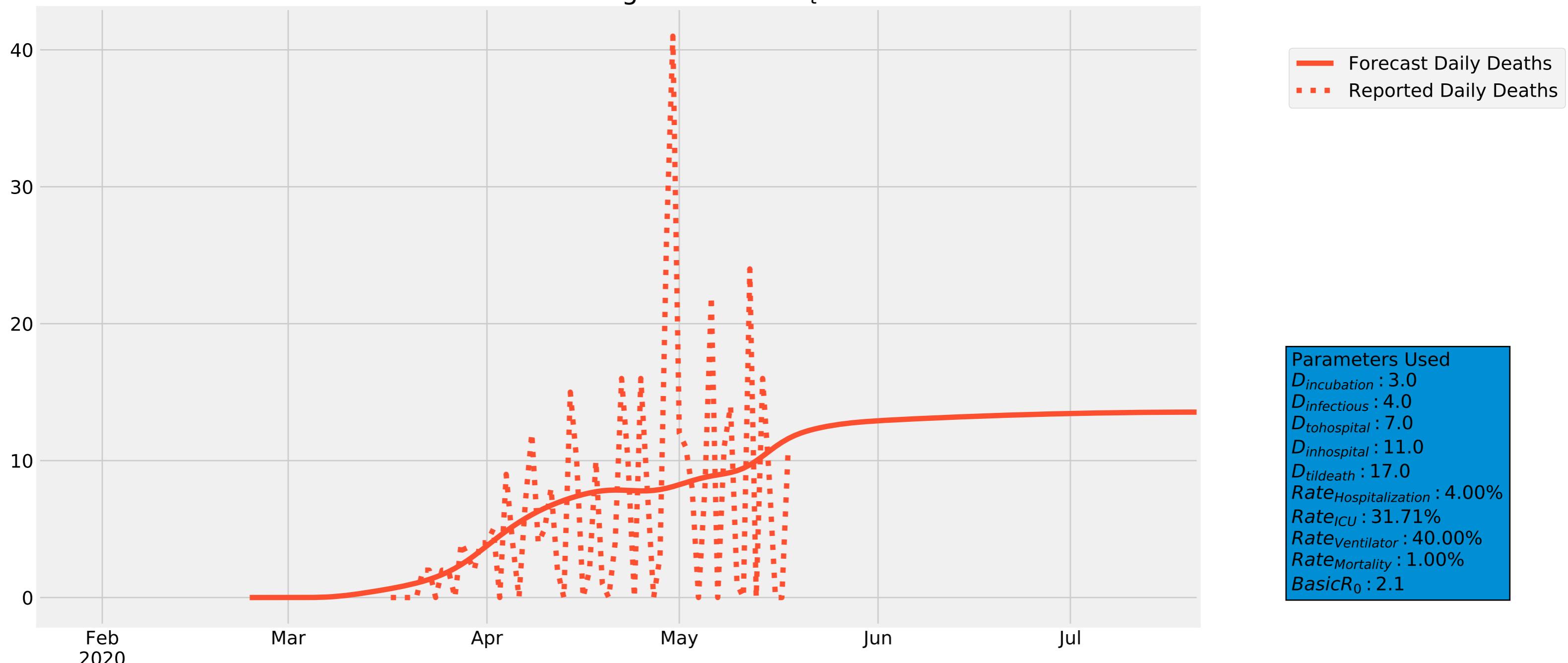
South Carolina: No Change in Future R_t Scenario



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

Daily Deaths Forecast

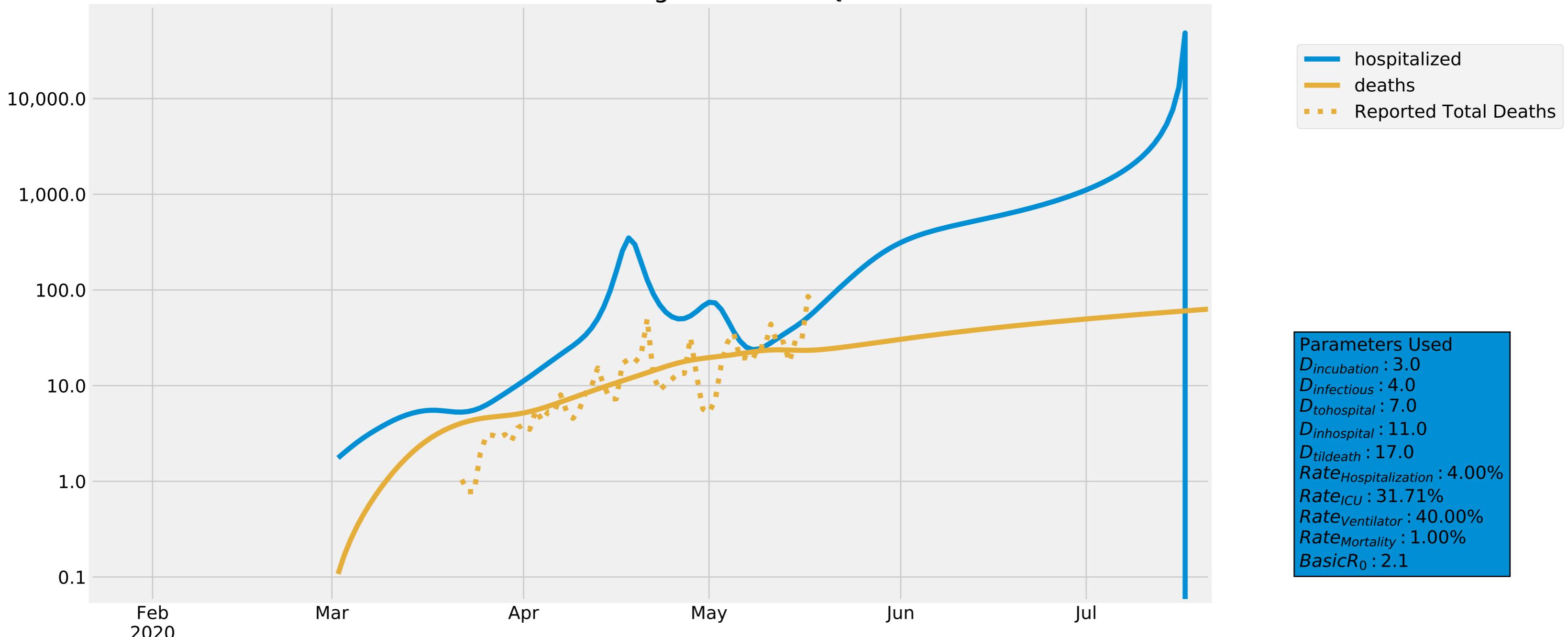
South Carolina: No Change in Future R_t Scenario



Parameters Used

- $D_{incubation} : 3.0$
- $D_{infectious} : 4.0$
- $D_{tohospital} : 7.0$
- $D_{inhospital} : 11.0$
- $D_{tildeath} : 17.0$
- $Rate_{Hospitalization} : 4.00\%$
- $Rate_{ICU} : 31.71\%$
- $Rate_{Ventilator} : 40.00\%$
- $Rate_{Mortality} : 1.00\%$
- $BasicR_0 : 2.1$

Doubling Rate Forecast South Carolina: No Change in Future R_t Scenario

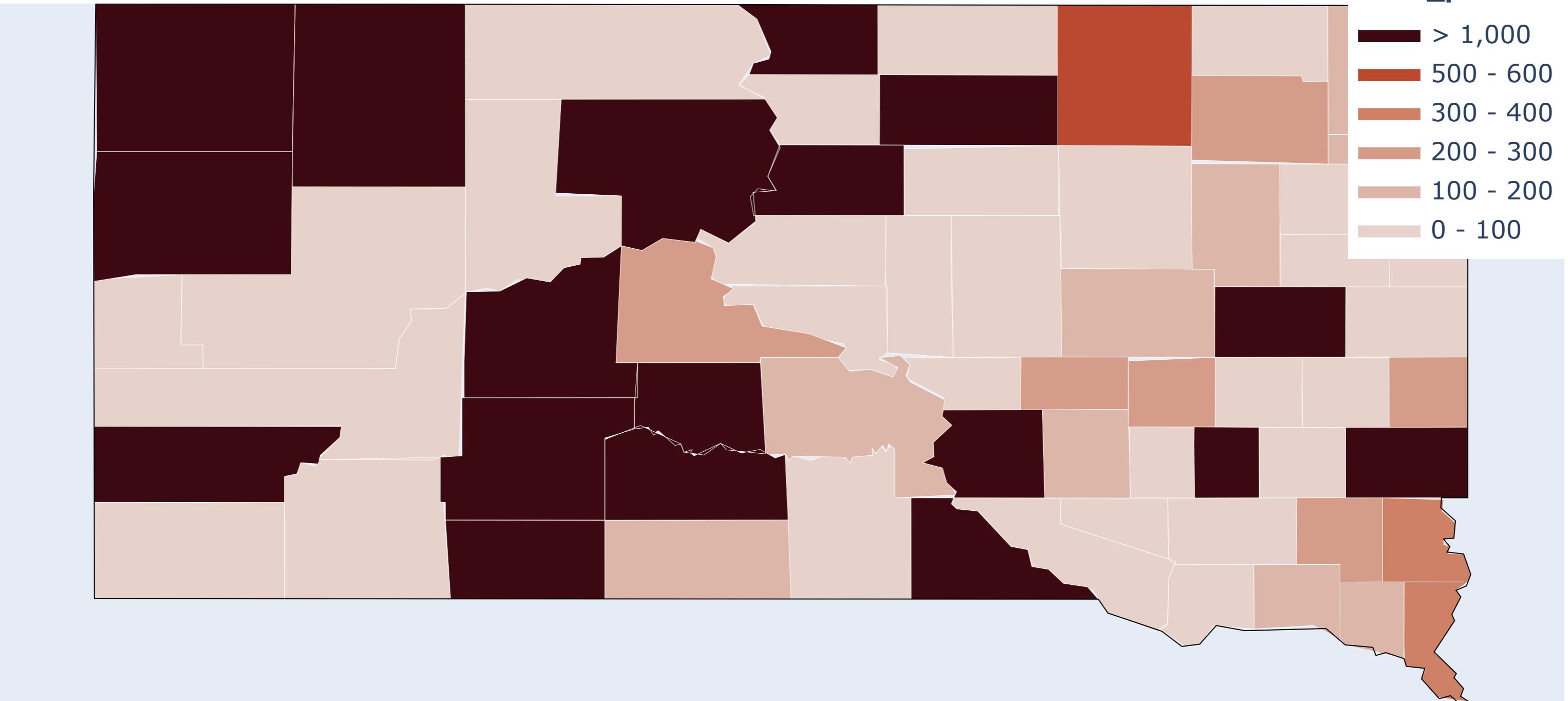


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

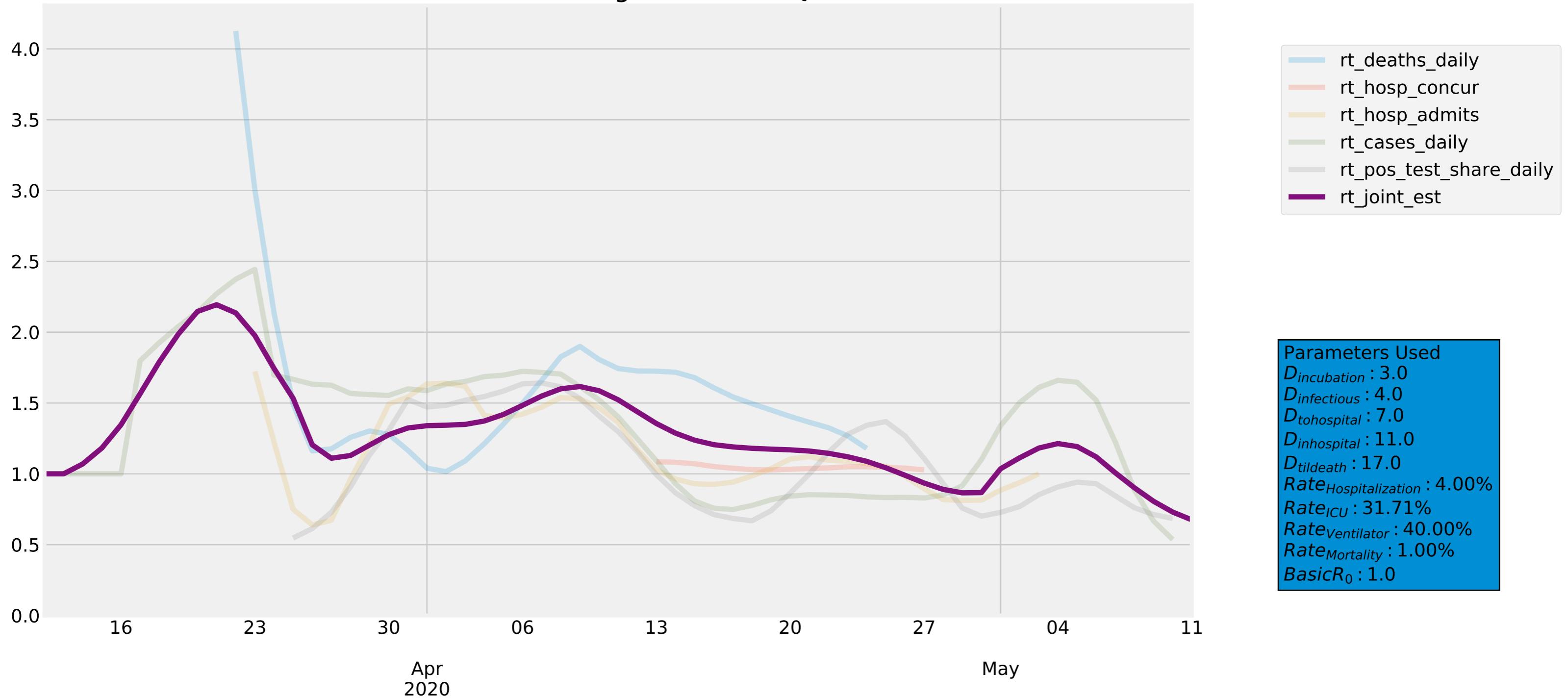
South Dakota: COVID-19 Cases Per 100k Residents

cases_per100k

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



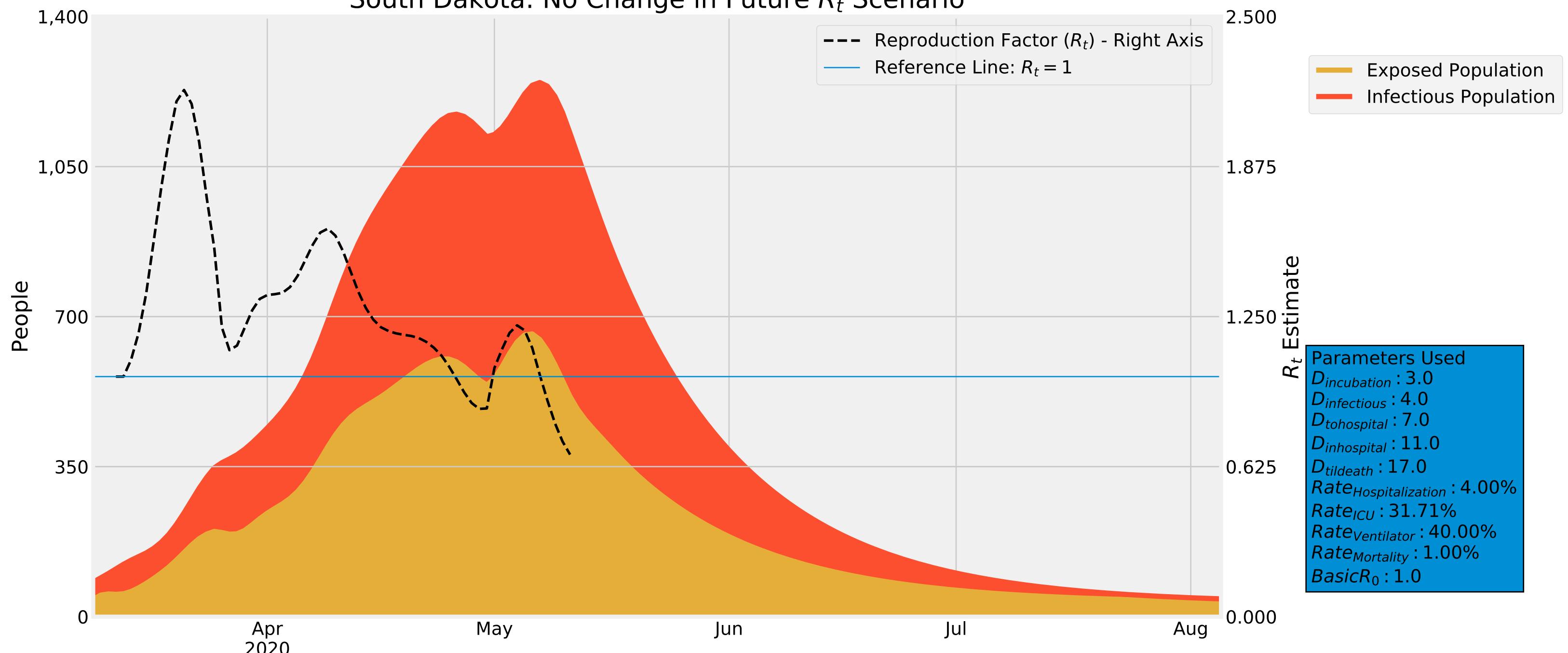
Reproduction Rate (R_t) Estimates South Dakota: No Change in Future R_t Scenario



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

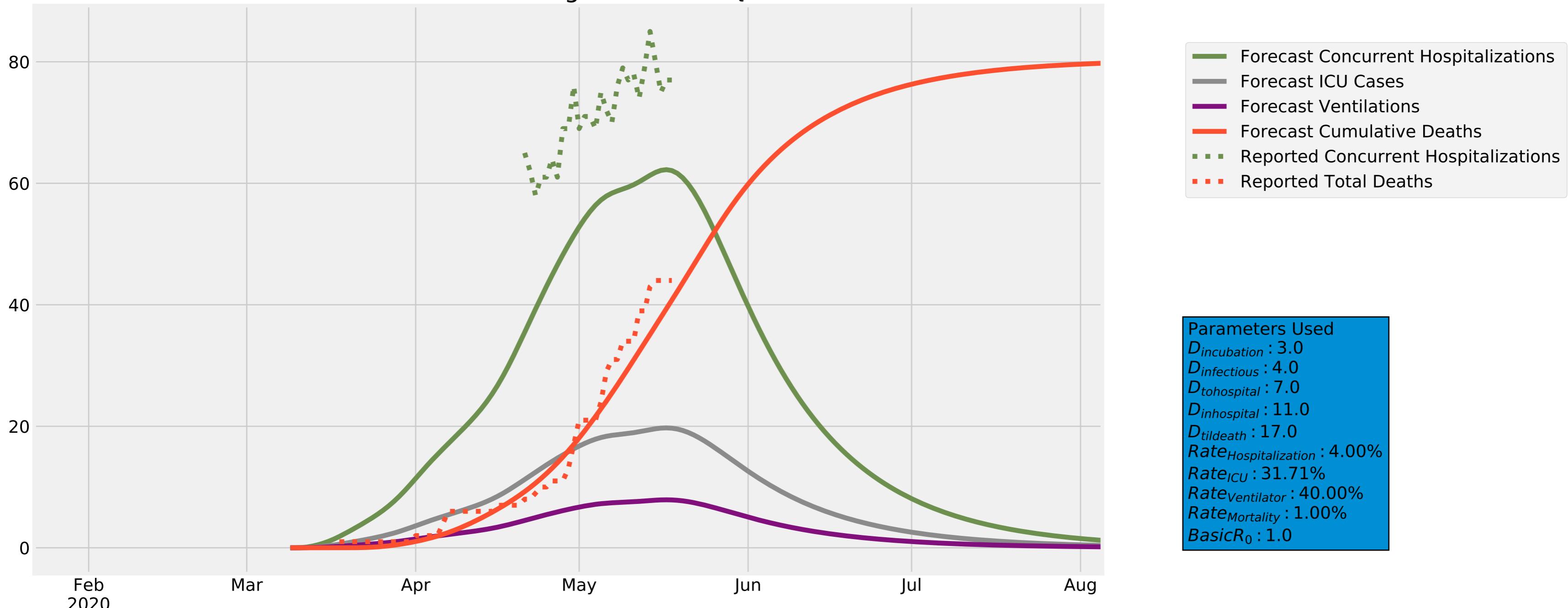
Simultaneous Infections Forecast

South Dakota: No Change in Future R_t Scenario



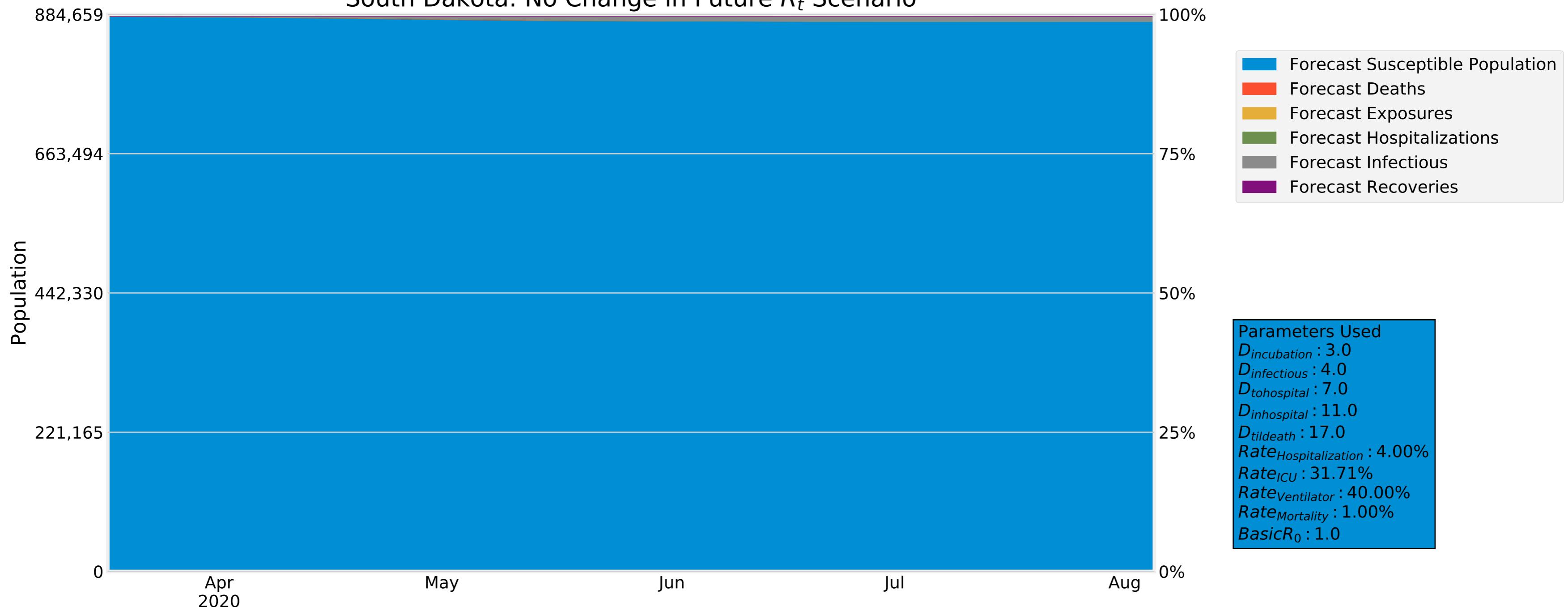
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Hospitalization and Deaths Forecast South Dakota: No Change in Future R_t Scenario

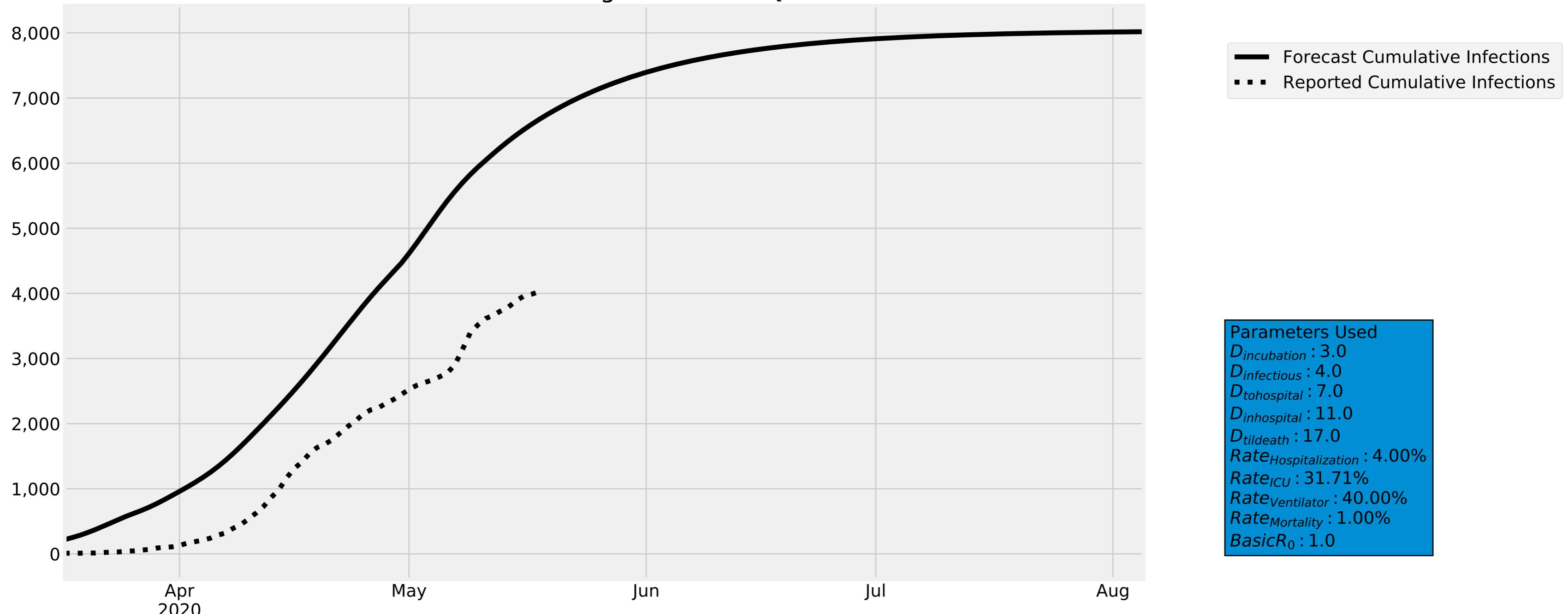


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast South Dakota: No Change in Future R_t Scenario



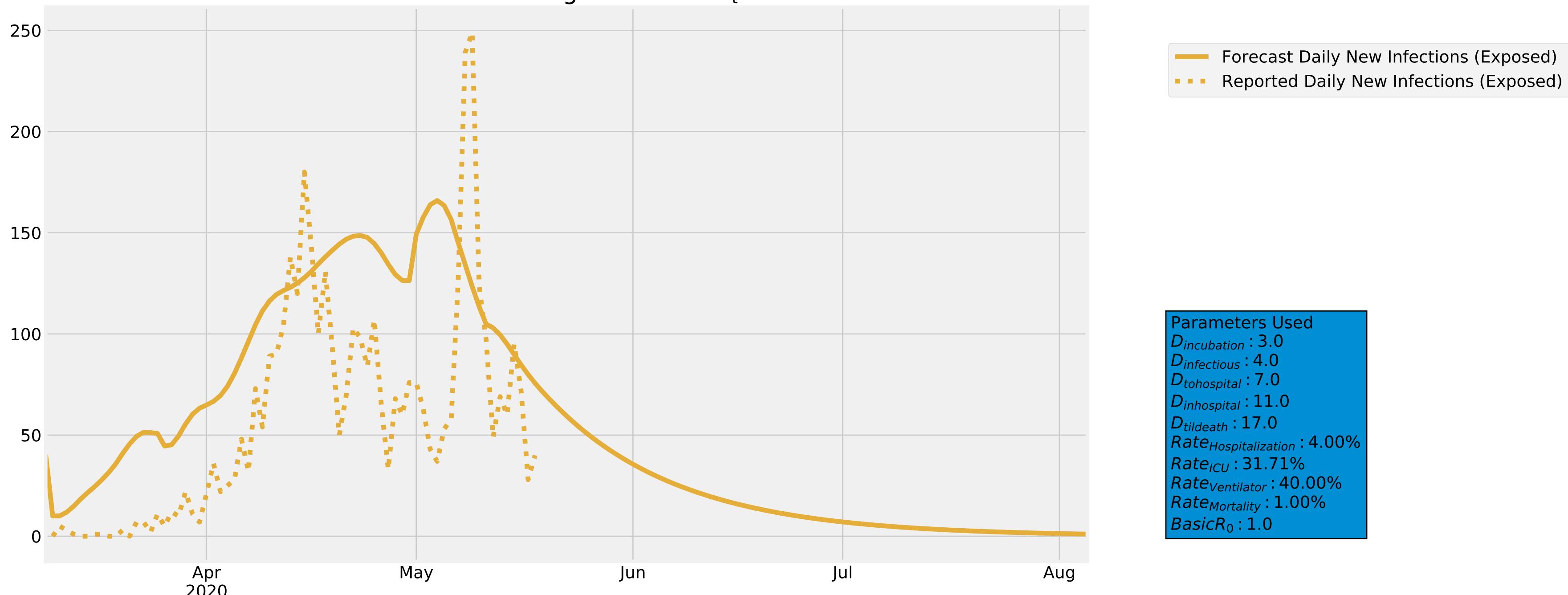
Cumulative Infections Forecast South Dakota: No Change in Future R_t Scenario



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%
$BasicR_0$: 1.0

Daily Exposures Forecast South Dakota: No Change in Future R_t Scenario

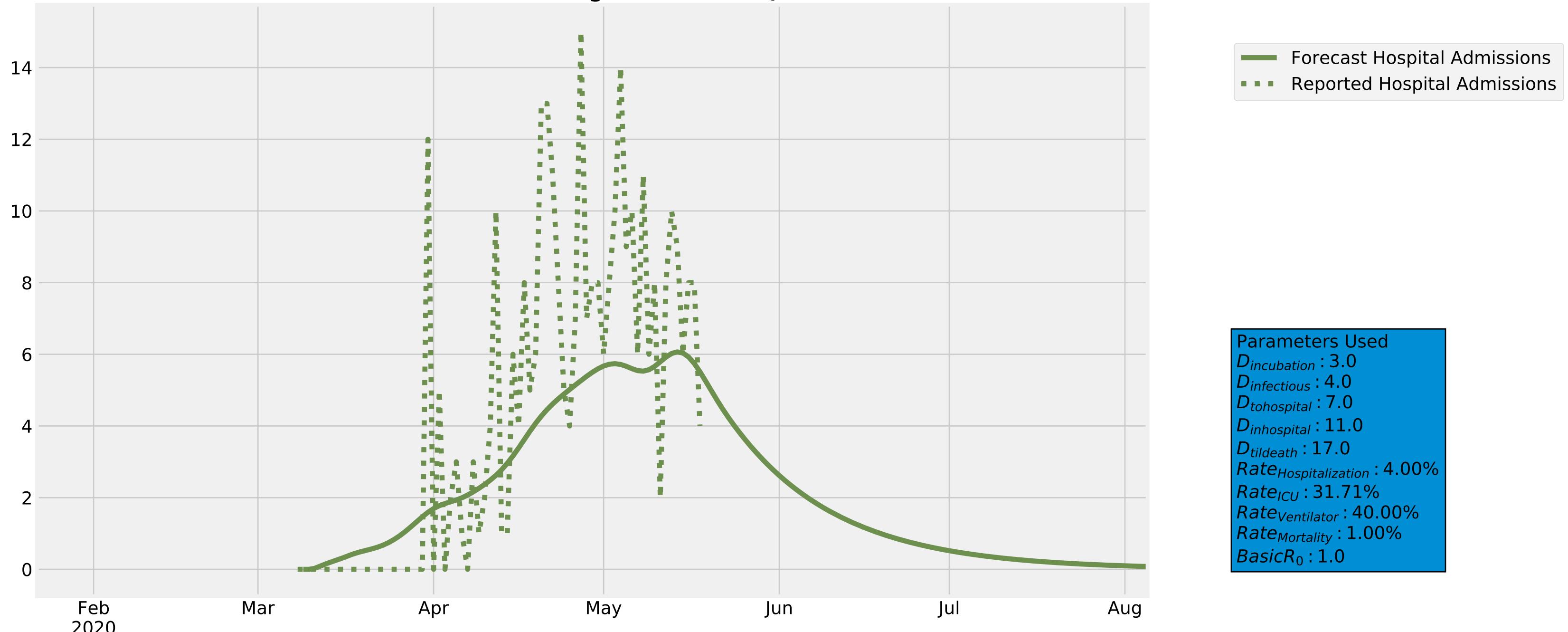


Parameters Used

- $D_{incubation} : 3.0$
- $D_{infectious} : 4.0$
- $D_{tohospital} : 7.0$
- $D_{inhospital} : 11.0$
- $D_{tildeath} : 17.0$
- $Rate_{Hospitalization} : 4.00\%$
- $Rate_{ICU} : 31.71\%$
- $Rate_{Ventilator} : 40.00\%$
- $Rate_{Mortality} : 1.00\%$
- $BasicR_0 : 1.0$

Daily Hospital Admissions Forecast

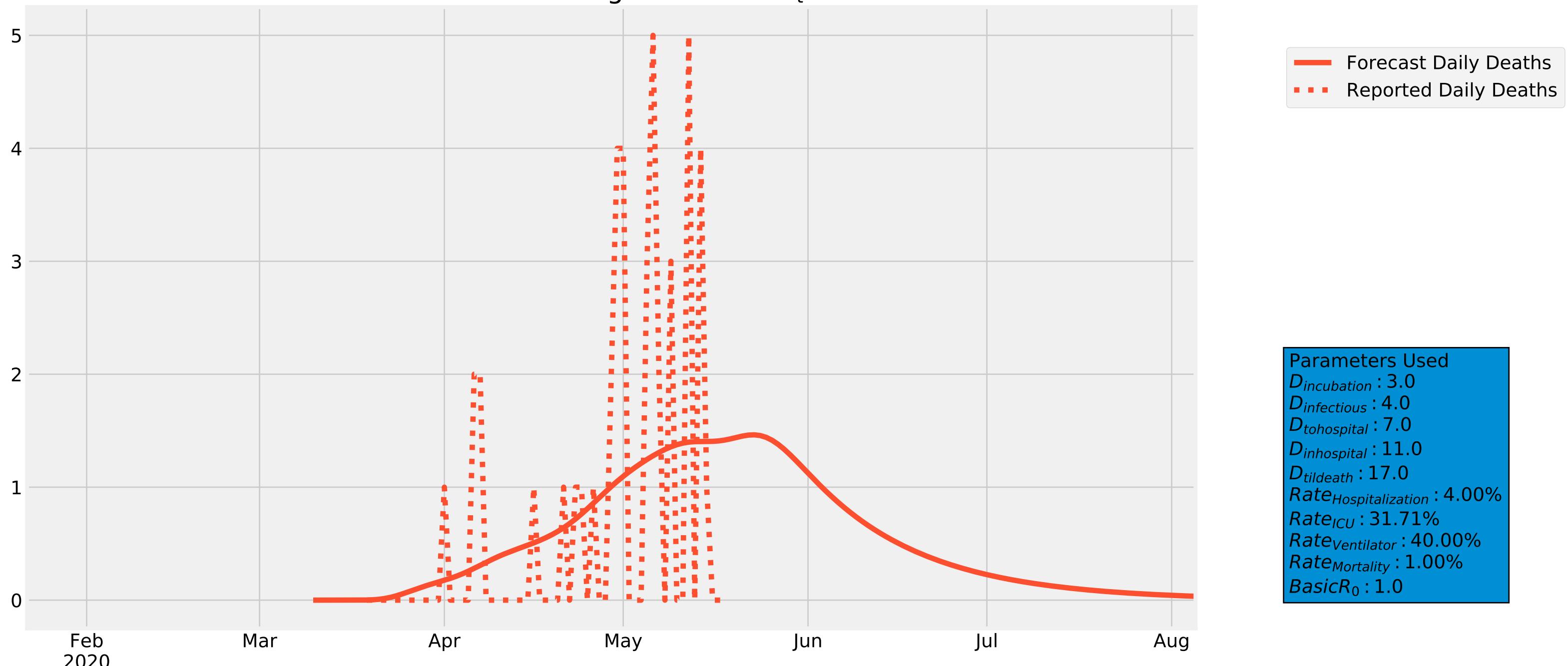
South Dakota: No Change in Future R_t Scenario



Parameters Used

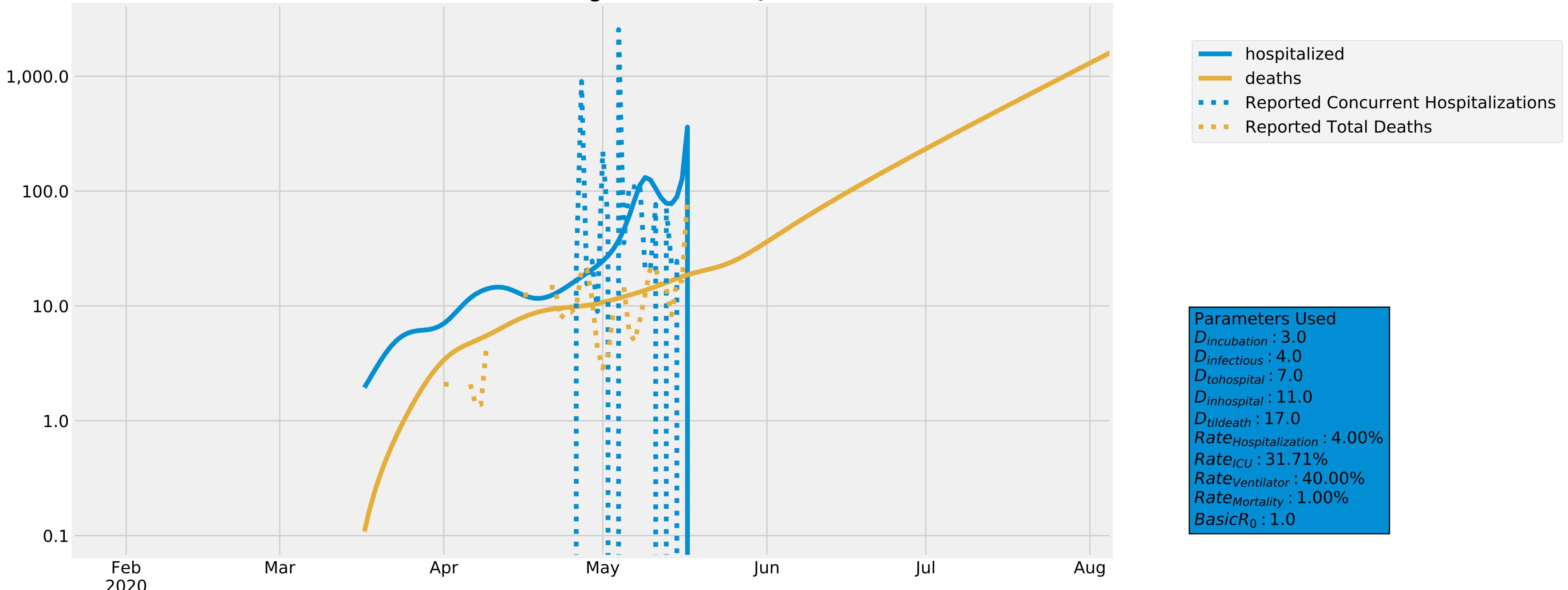
$D_{incubation}$: 3.0
 $D_{infectious}$: 4.0
 $D_{tohospital}$: 7.0
 $D_{inhospital}$: 11.0
 $D_{tildeath}$: 17.0
 $Rate_{Hospitalization}$: 4.00%
 $Rate_{ICU}$: 31.71%
 $Rate_{Ventilator}$: 40.00%
 $Rate_{Mortality}$: 1.00%
 $BasicR_0$: 1.0

Daily Deaths Forecast South Dakota: No Change in Future R_t Scenario



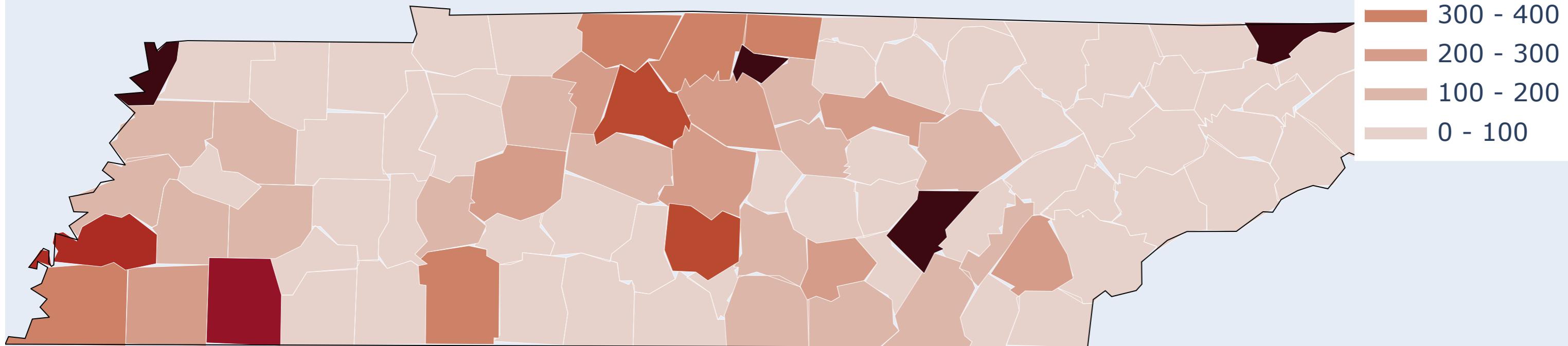
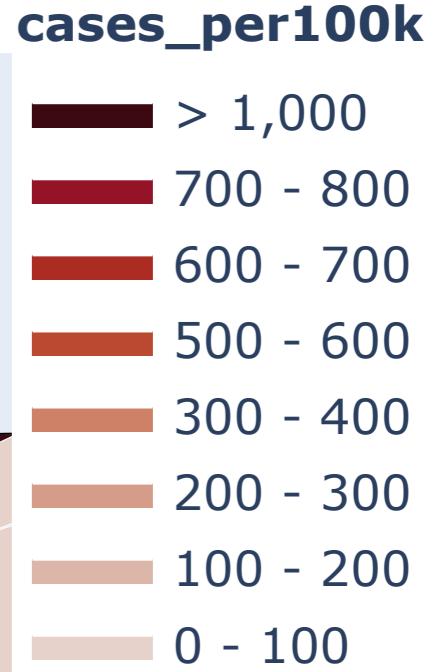
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast South Dakota: No Change in Future R_t Scenario

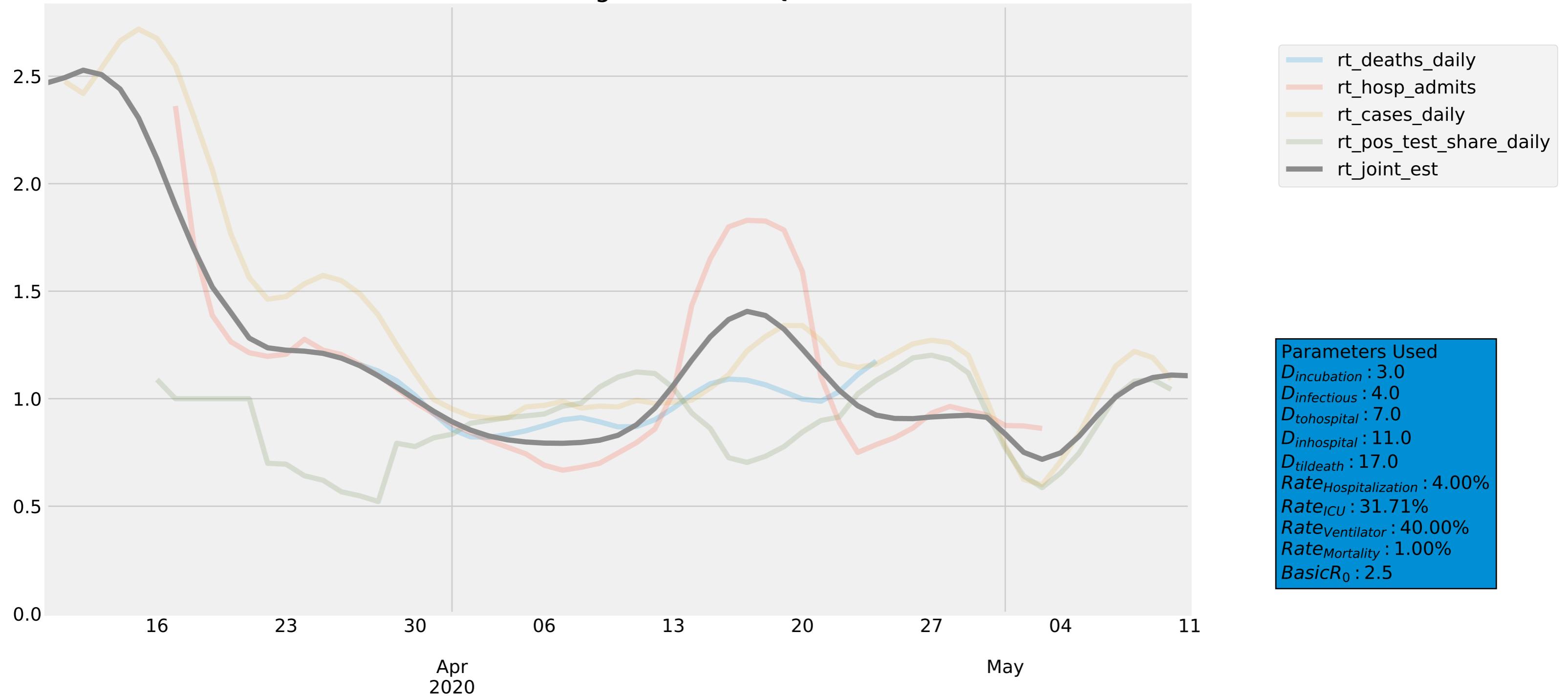


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Tennessee: COVID-19 Cases Per 100k Residents



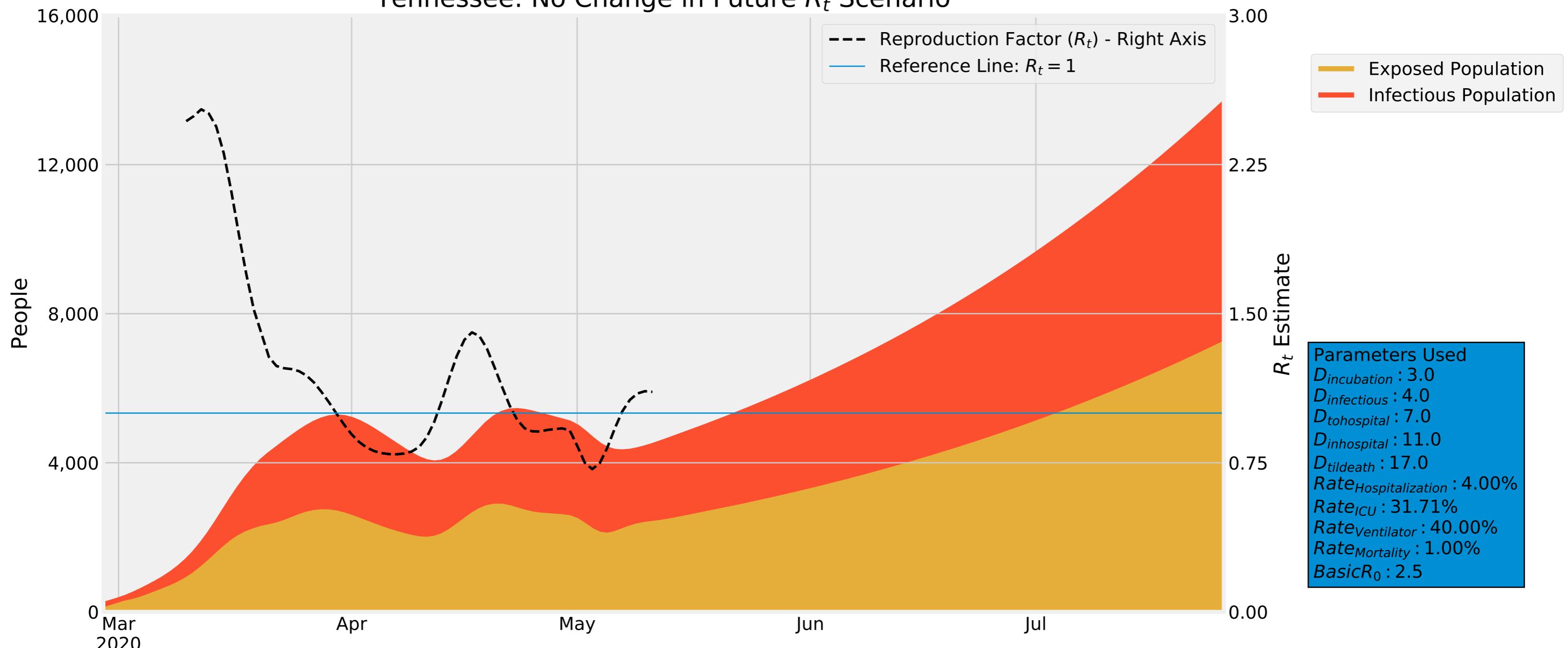
Reproduction Rate (R_t) Estimates Tennessee: No Change in Future R_t Scenario



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

Simultaneous Infections Forecast

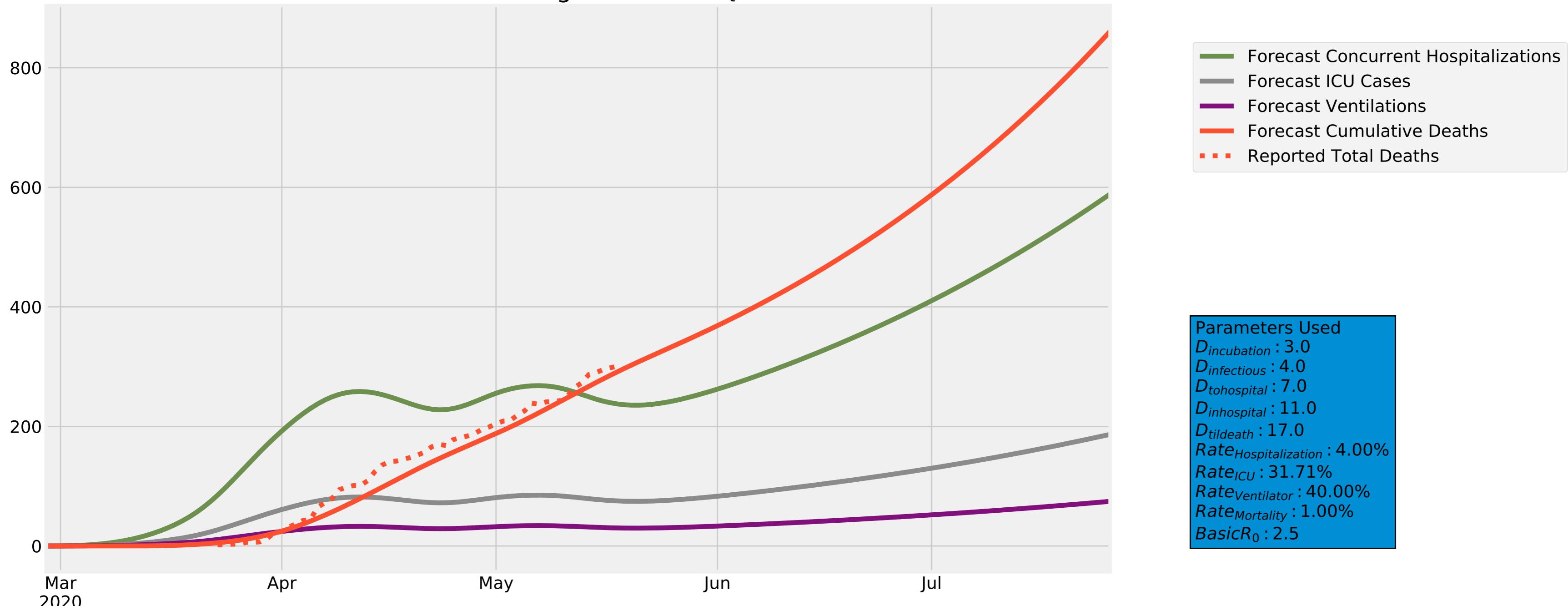
Tennessee: No Change in Future R_t Scenario



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

Hospitalization and Deaths Forecast

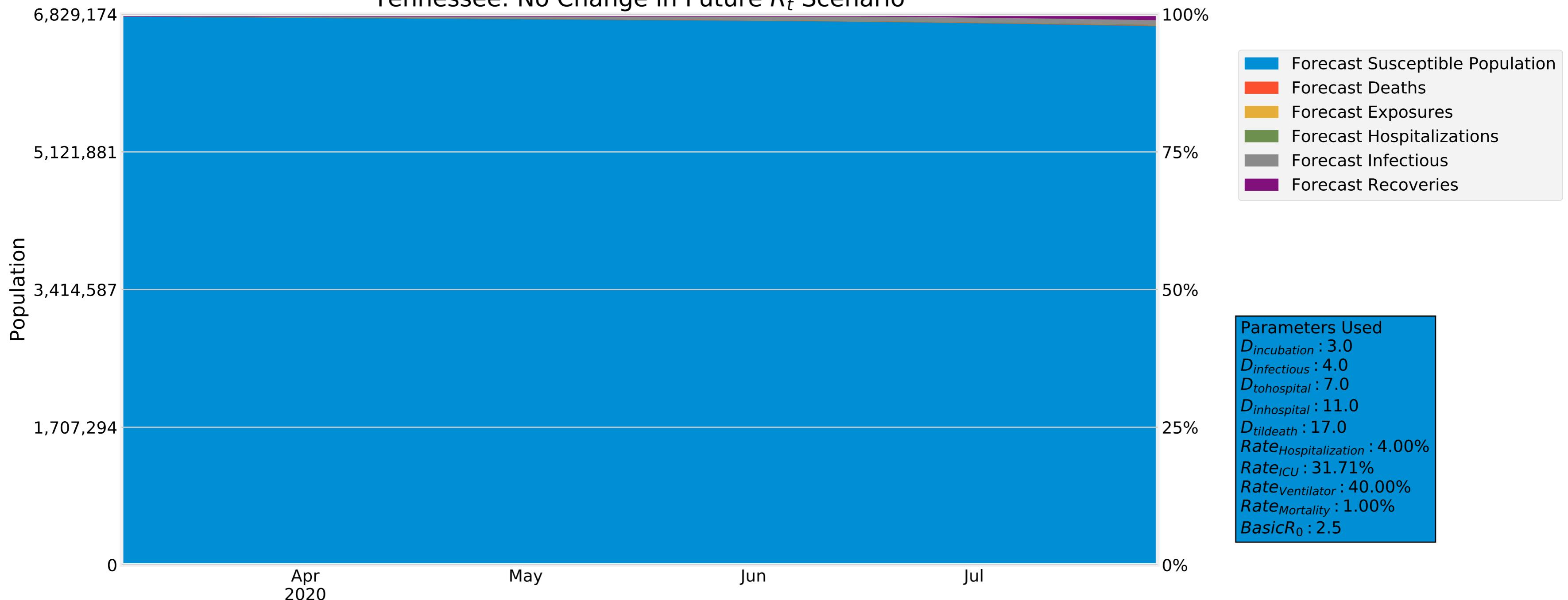
Tennessee: No Change in Future R_t Scenario



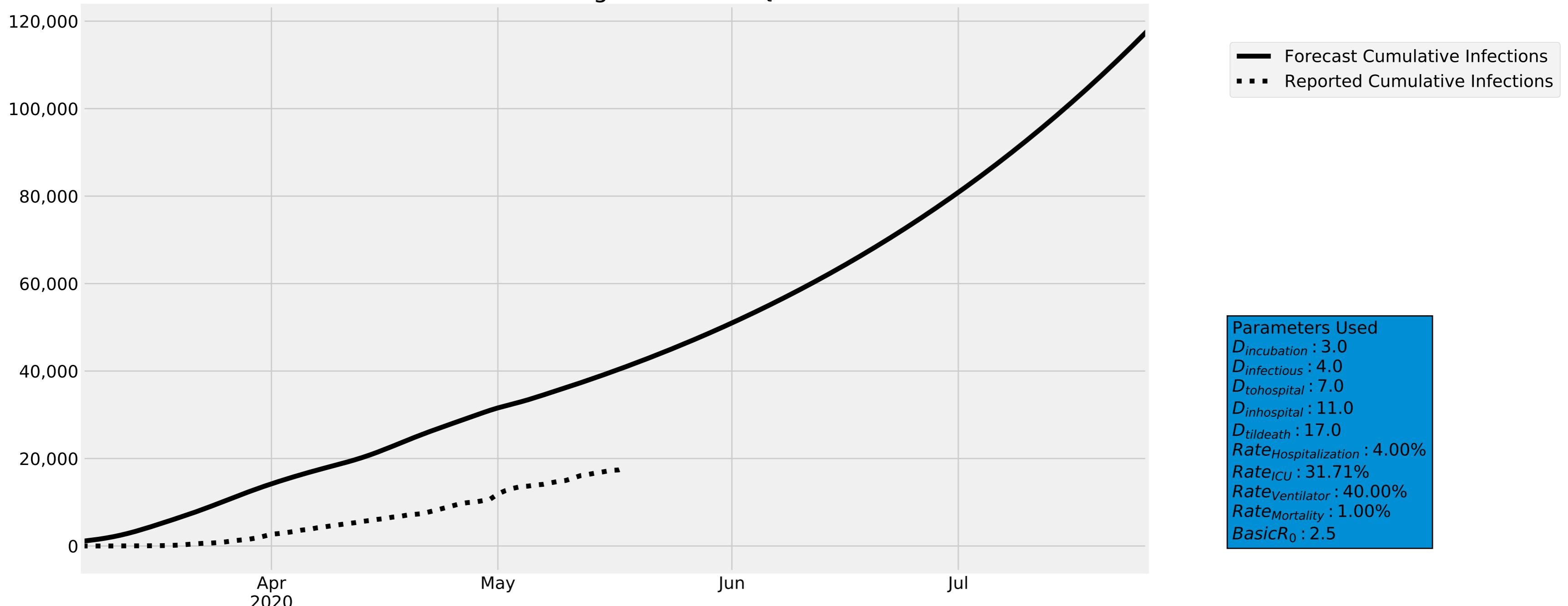
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

Tennessee: No Change in Future R_t Scenario



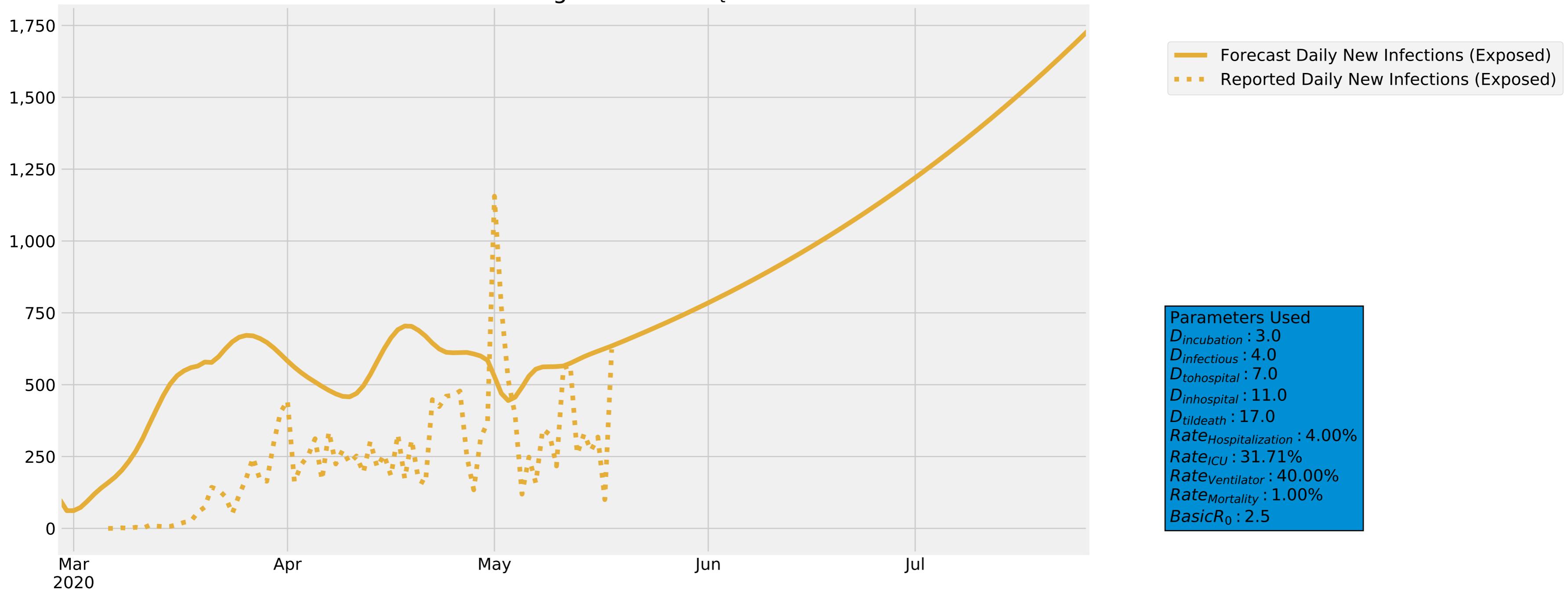
Cumulative Infections Forecast Tennessee: No Change in Future R_t Scenario



Parameters Used

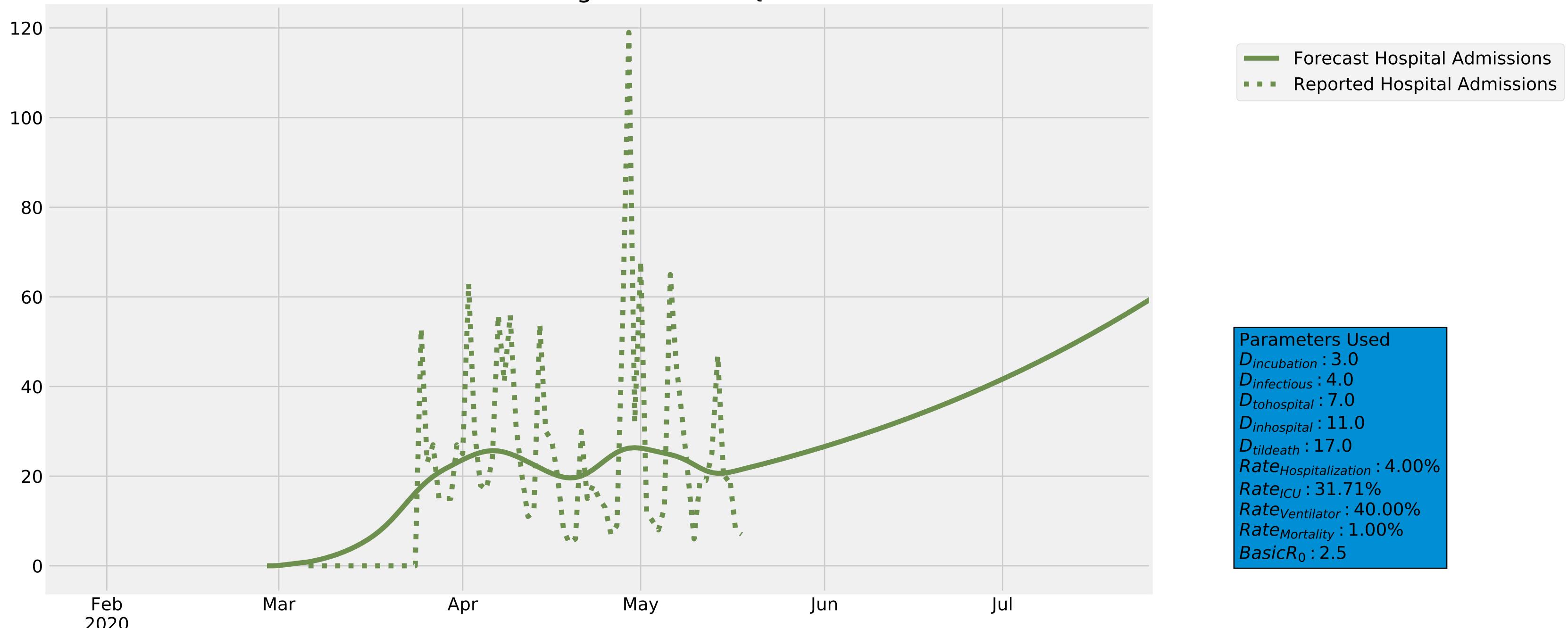
- $D_{incubation}$: 3.0
- $D_{infectious}$: 4.0
- $D_{tohospital}$: 7.0
- $D_{inhospital}$: 11.0
- $D_{tildeath}$: 17.0
- $Rate_{Hospitalization}$: 4.00%
- $Rate_{ICU}$: 31.71%
- $Rate_{Ventilator}$: 40.00%
- $Rate_{Mortality}$: 1.00%
- $BasicR_0$: 2.5

Daily Exposures Forecast Tennessee: No Change in Future R_t Scenario



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

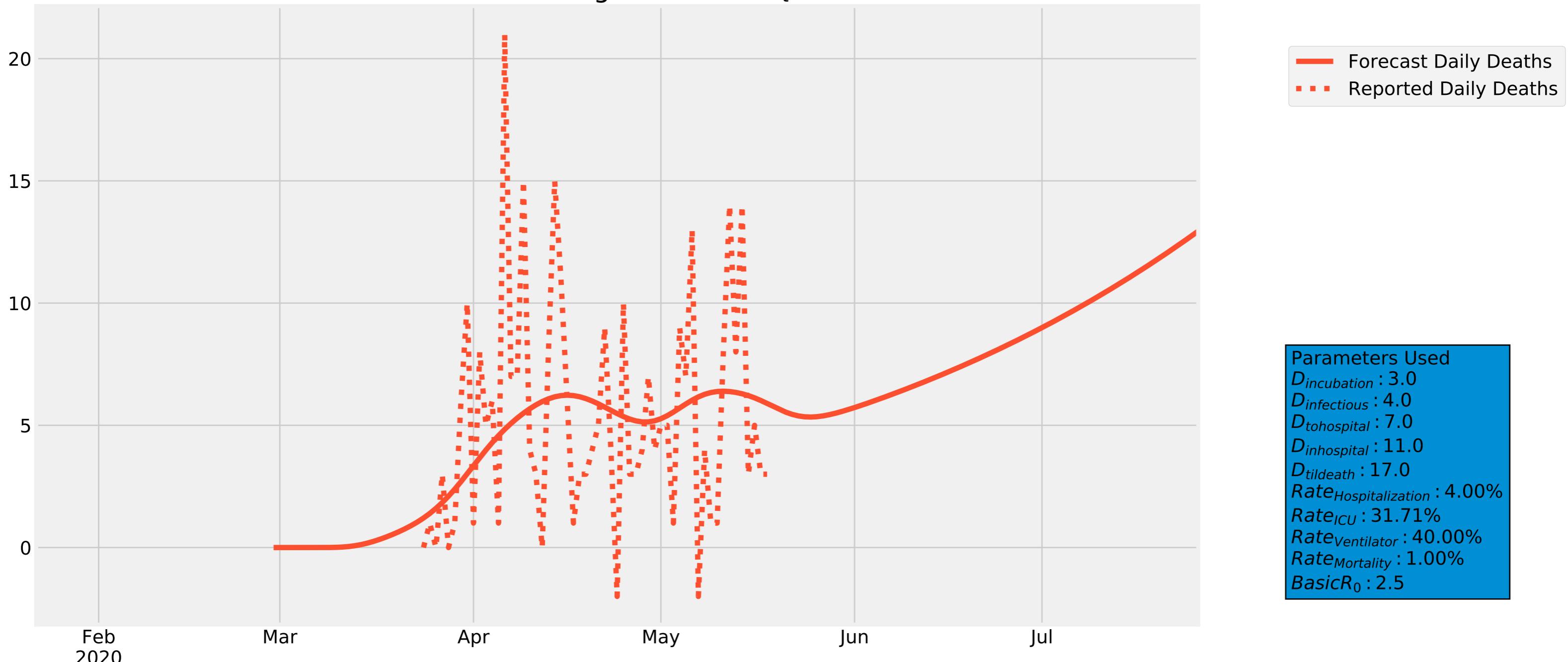
Daily Hospital Admissions Forecast Tennessee: No Change in Future R_t Scenario



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

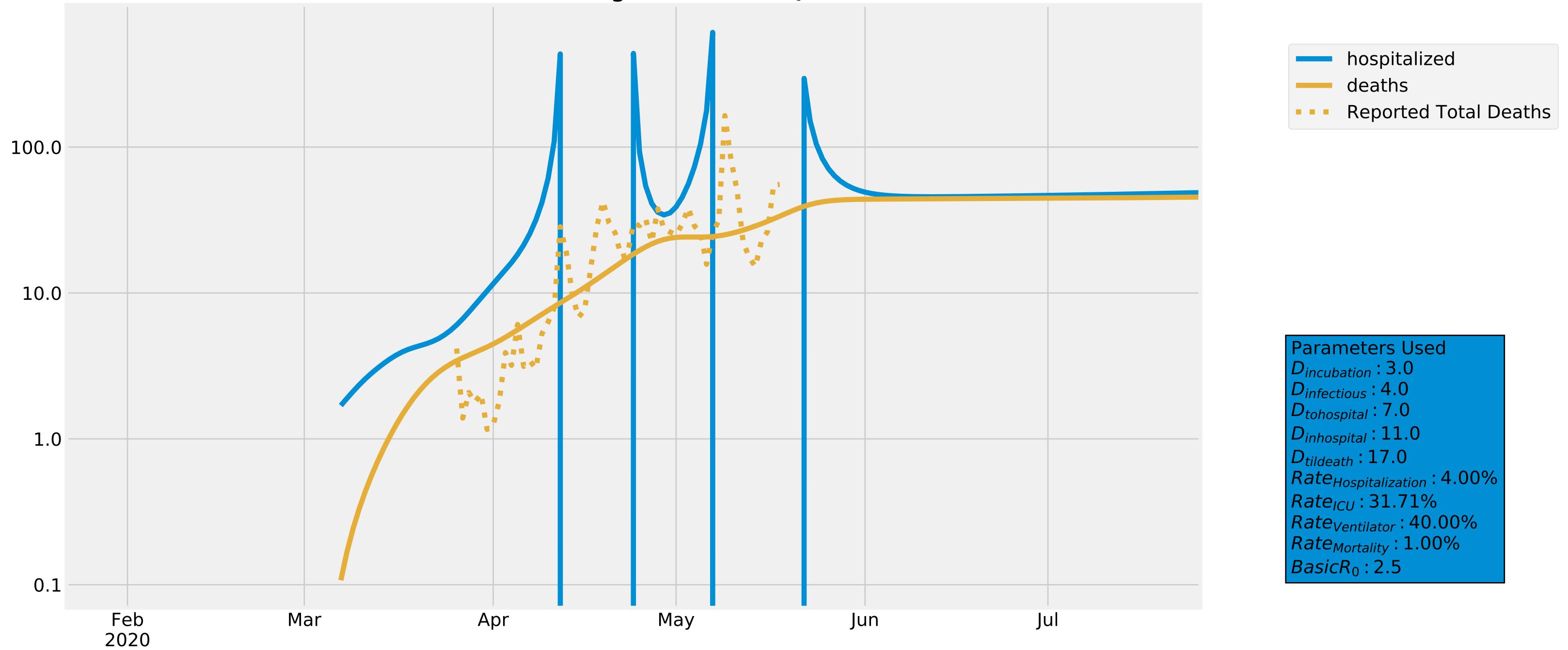
Daily Deaths Forecast

Tennessee: No Change in Future R_t Scenario



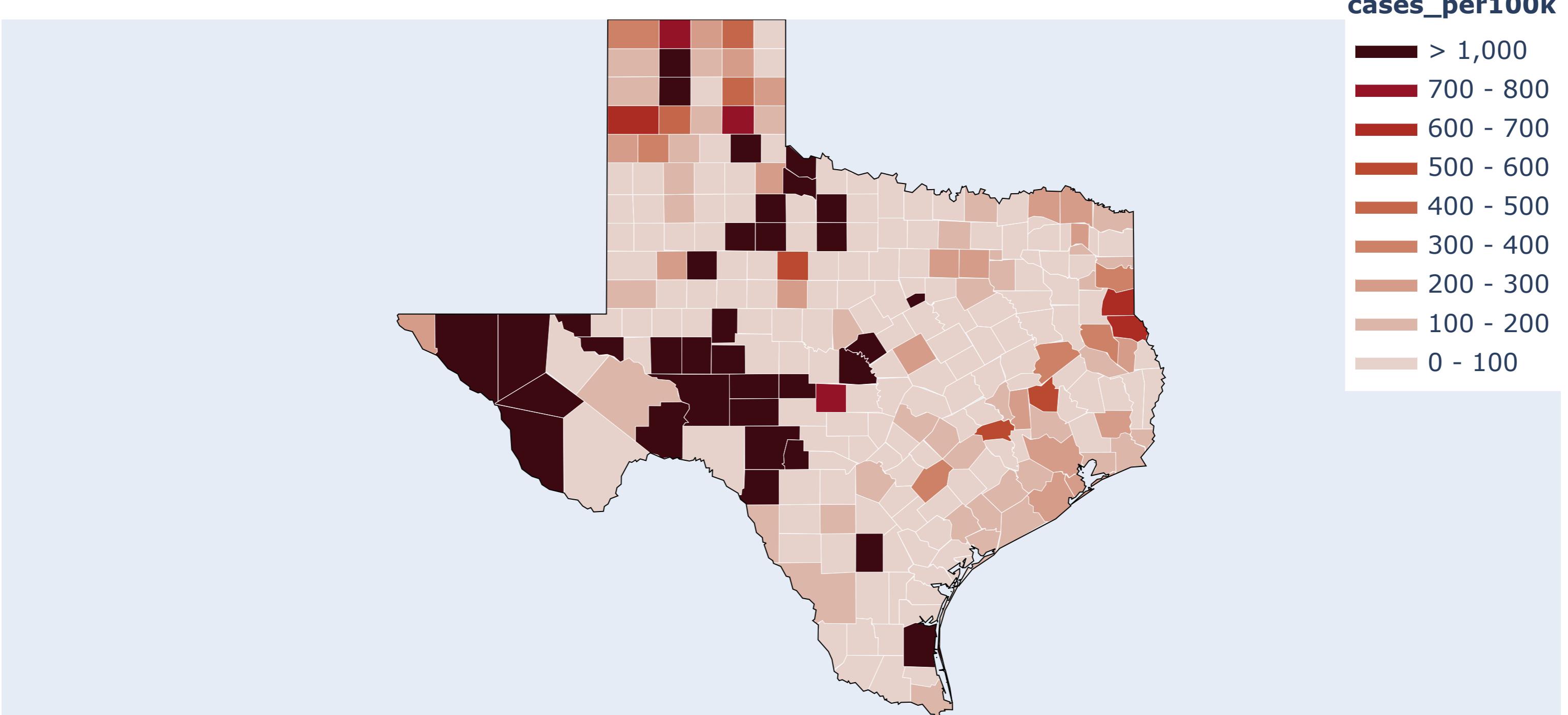
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Tennessee: No Change in Future R_t Scenario

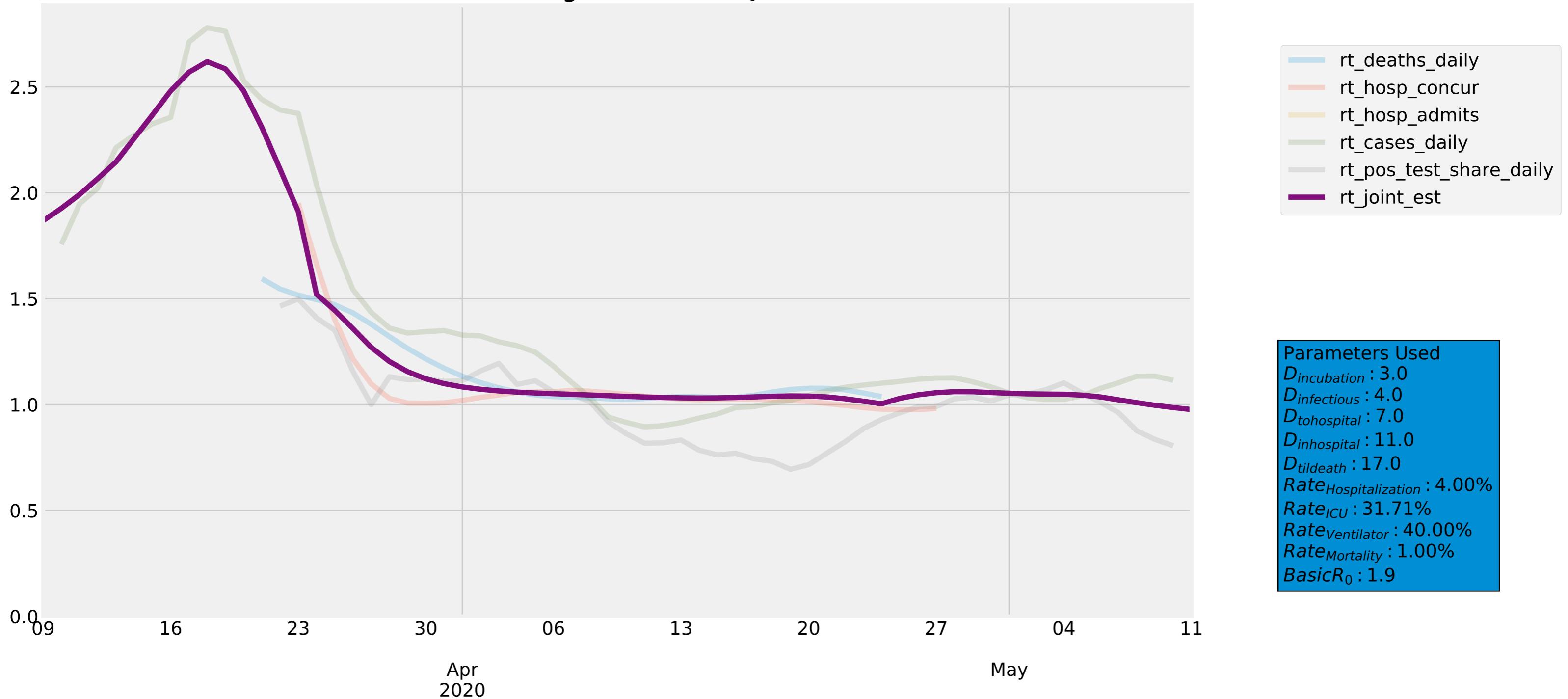


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Texas: COVID-19 Cases Per 100k Residents



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

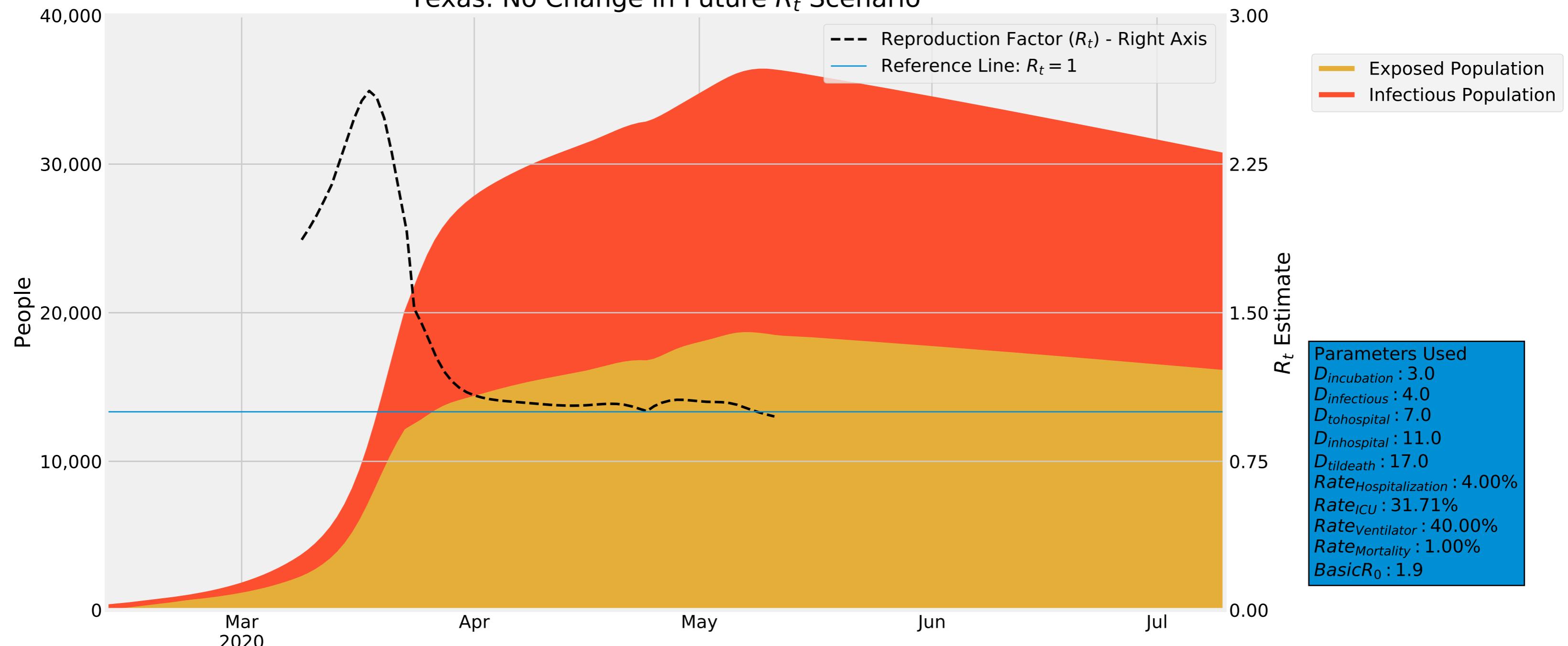


Parameters Used

$D_{incubation}$: 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%
Basic R_0	: 1.9

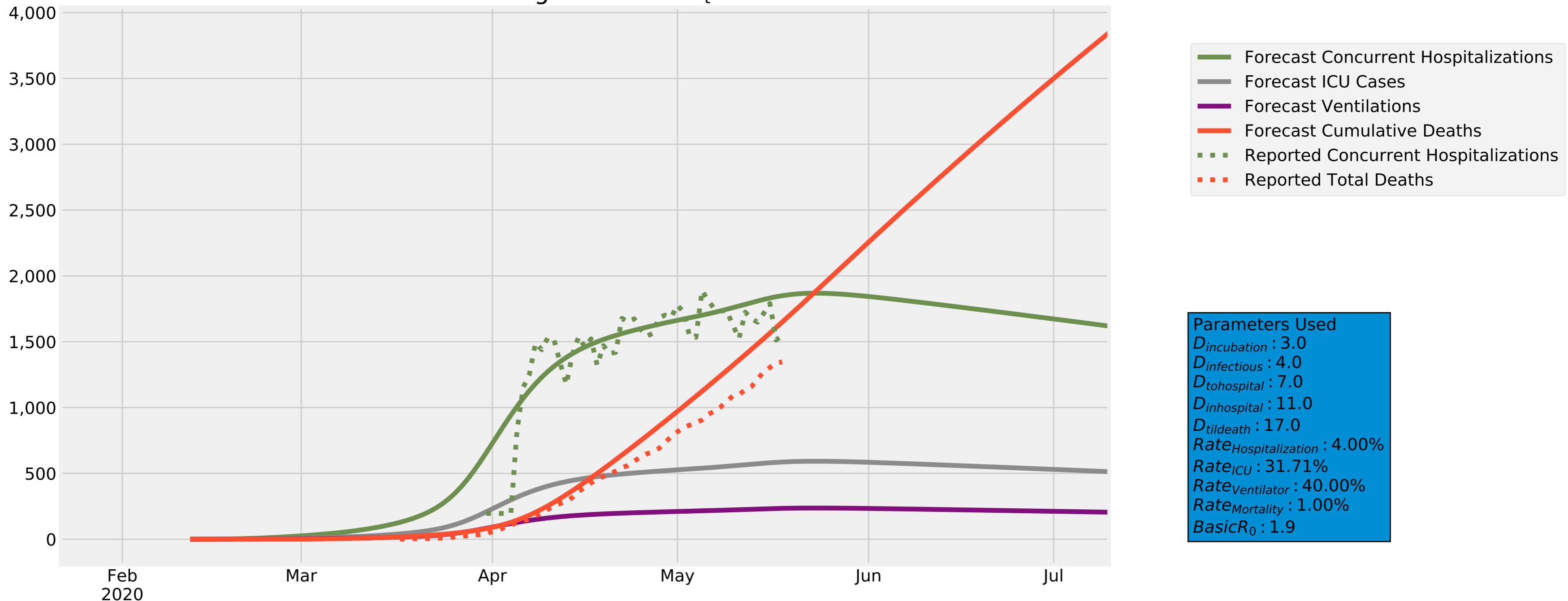
Simultaneous Infections Forecast

Texas: No Change in Future R_t Scenario



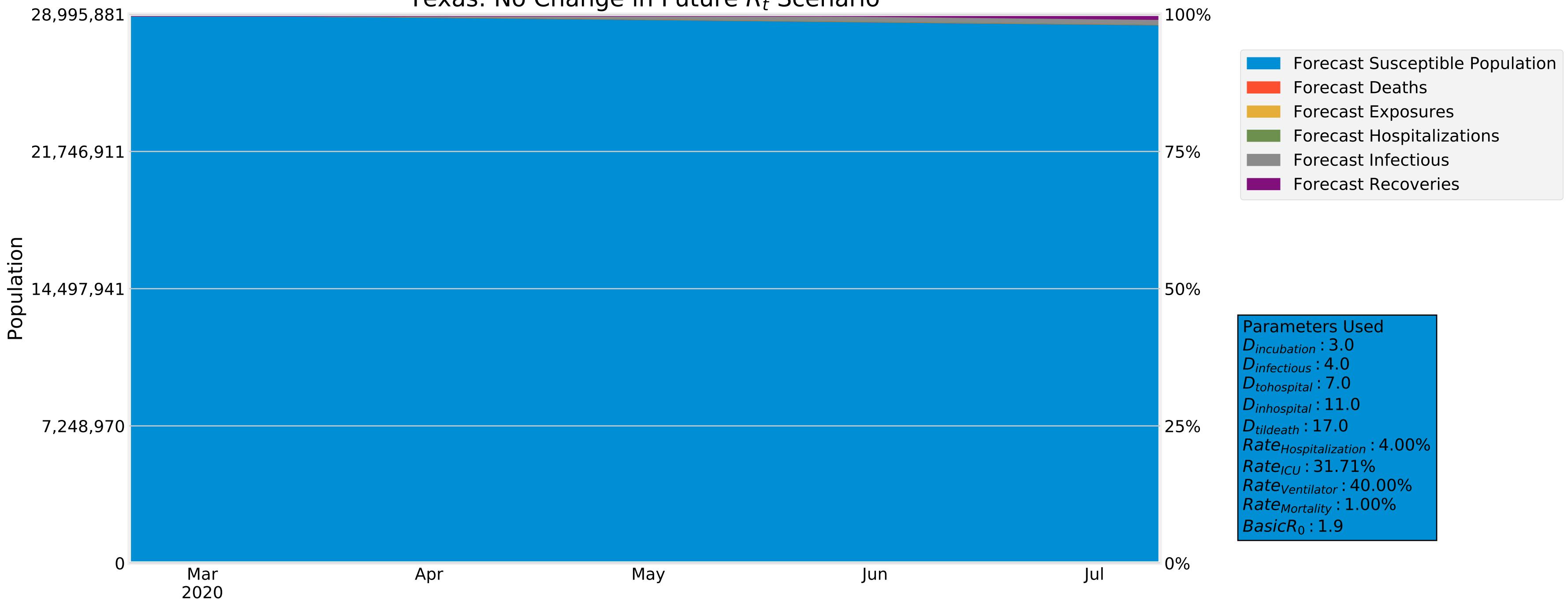
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

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

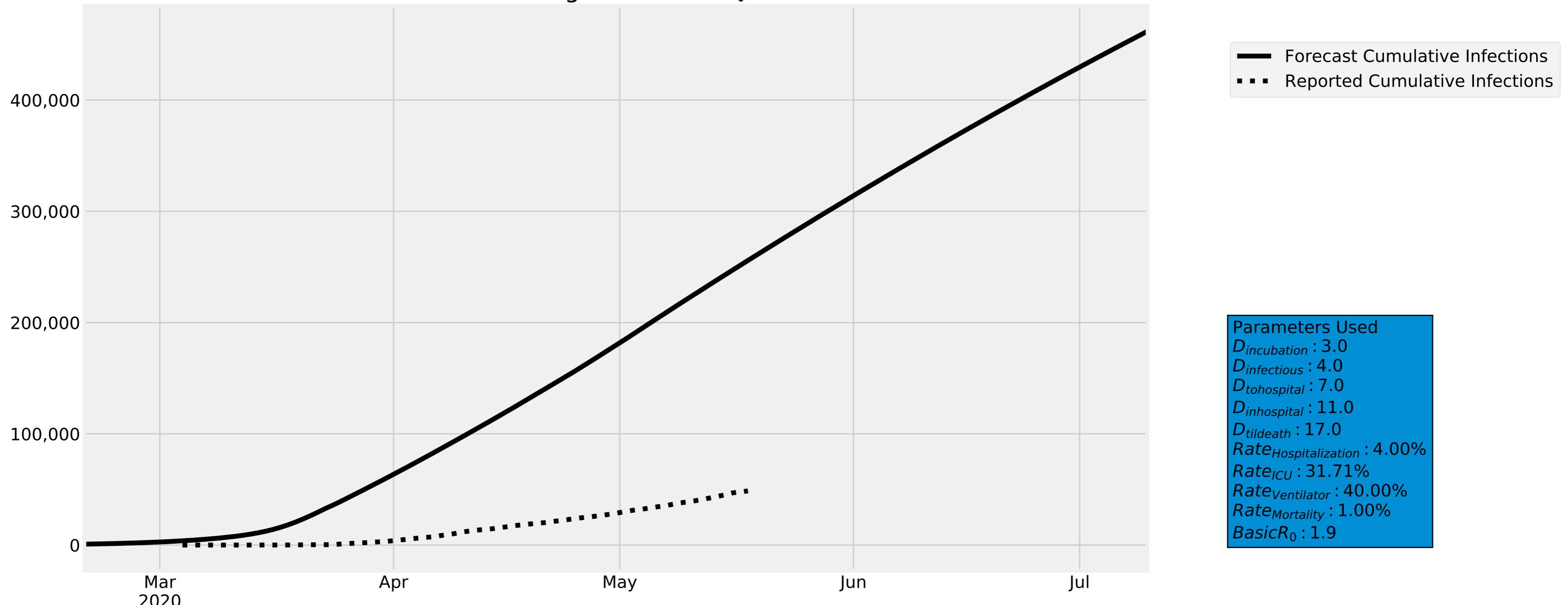


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast Texas: No Change in Future R_t Scenario



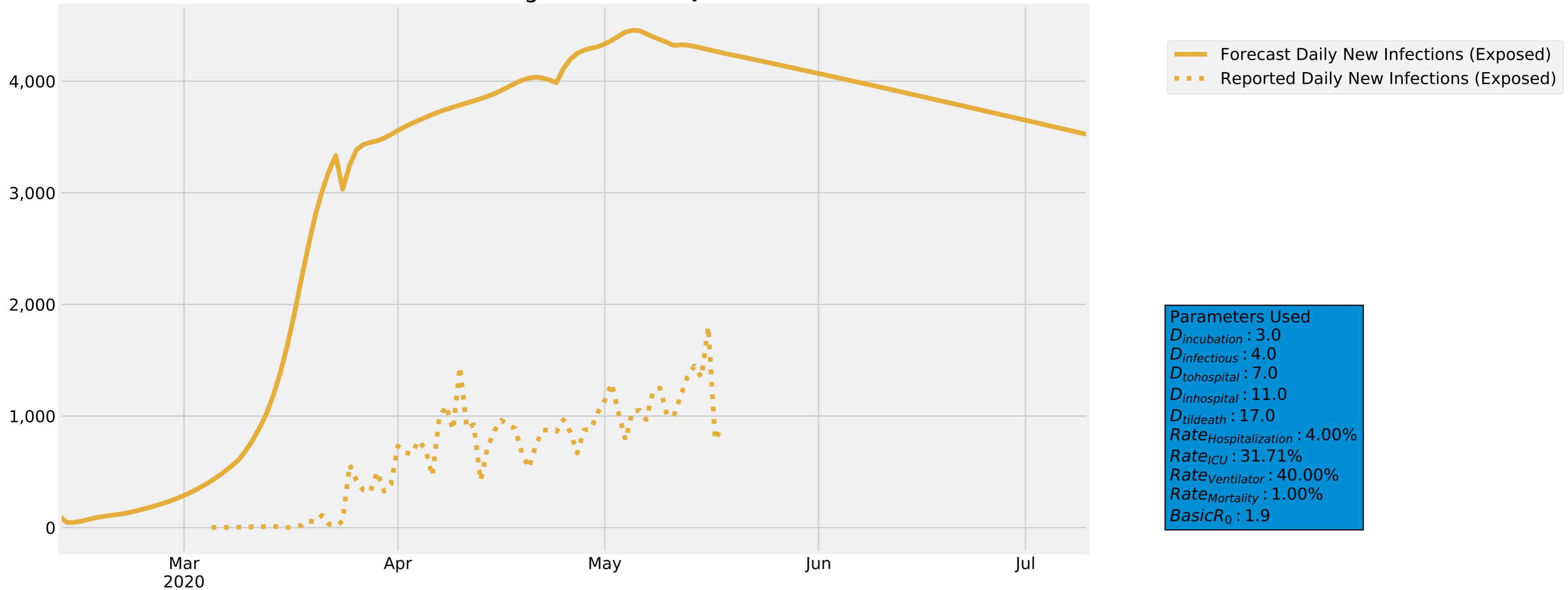
Cumulative Infections Forecast Texas: No Change in Future R_t Scenario



Parameters Used

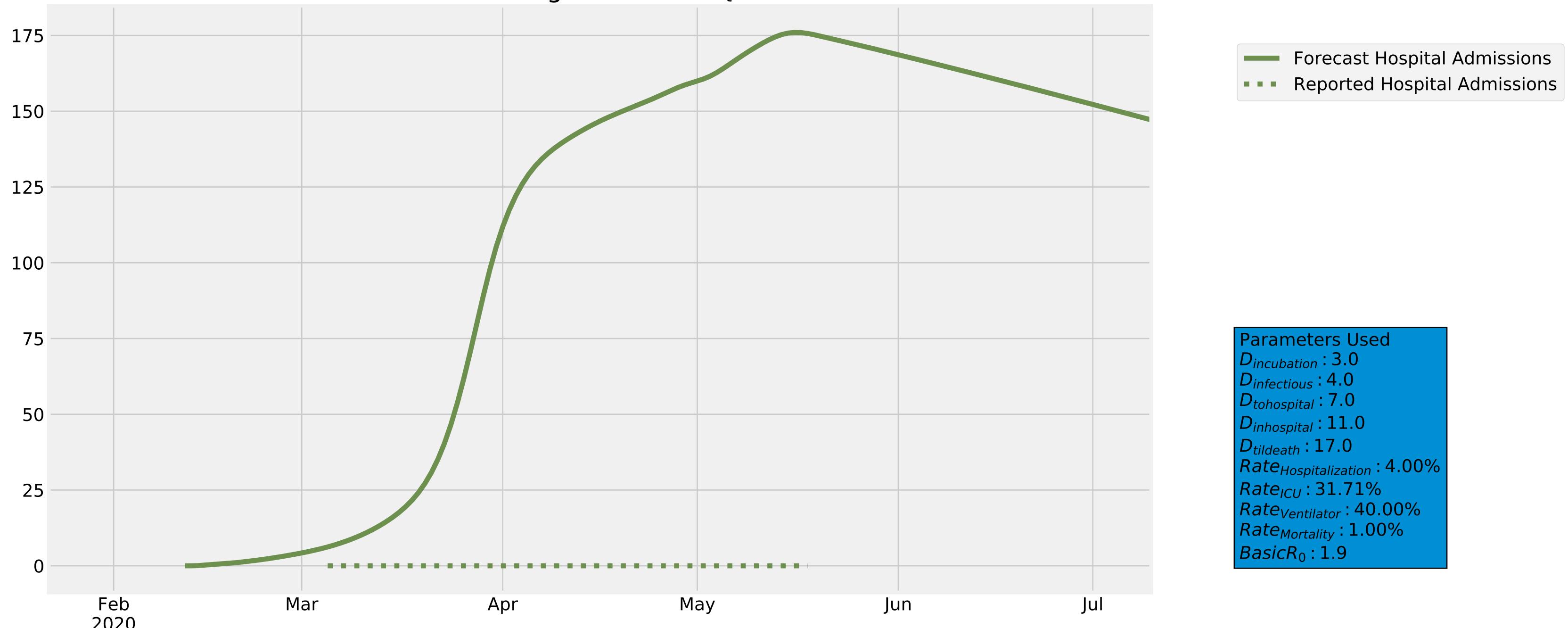
$D_{incubation}$: 3.0
 $D_{infectious}$: 4.0
 $D_{tohospital}$: 7.0
 $D_{inhospital}$: 11.0
 $D_{tildeath}$: 17.0
 $Rate_{Hospitalization}$: 4.00%
 $Rate_{ICU}$: 31.71%
 $Rate_{Ventilator}$: 40.00%
 $Rate_{Mortality}$: 1.00%
 $BasicR_0$: 1.9

Daily Exposures Forecast Texas: No Change in Future R_t Scenario



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

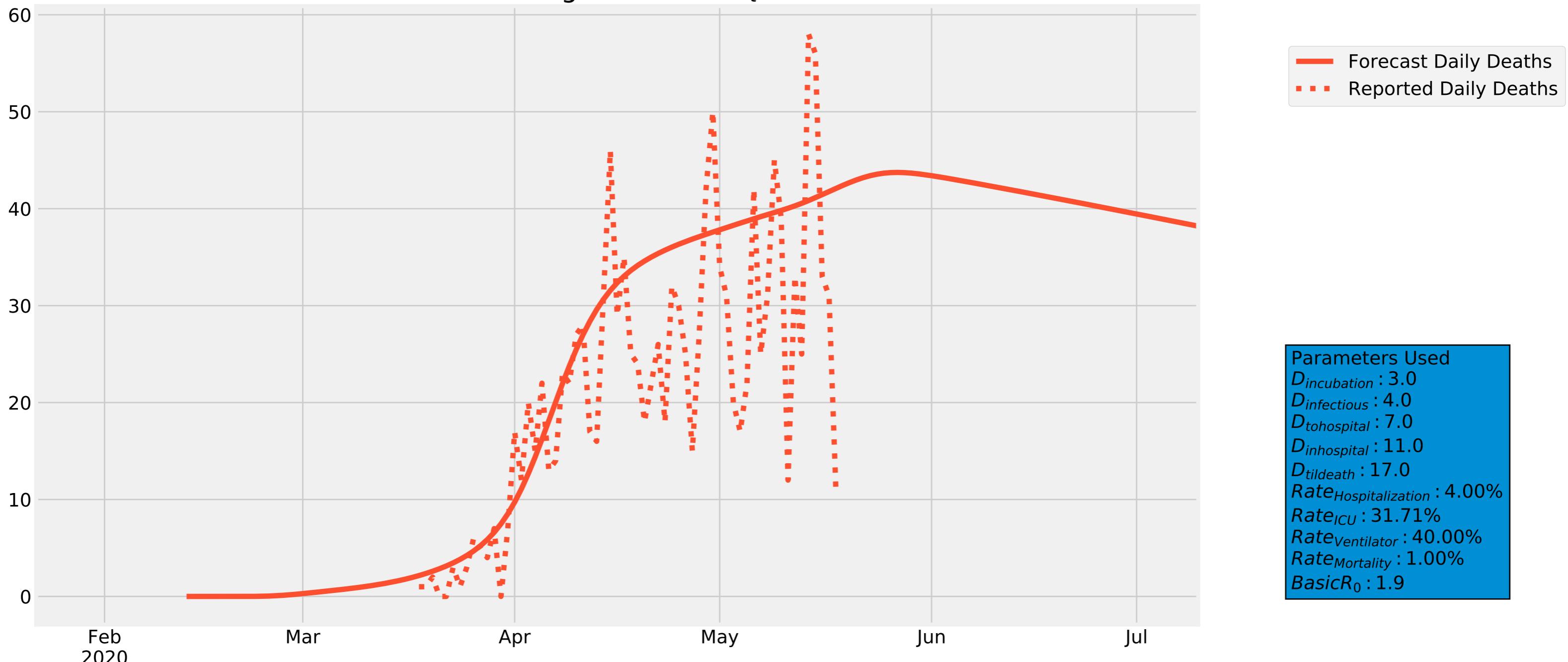
Daily Hospital Admissions Forecast Texas: No Change in Future R_t Scenario



Parameters Used

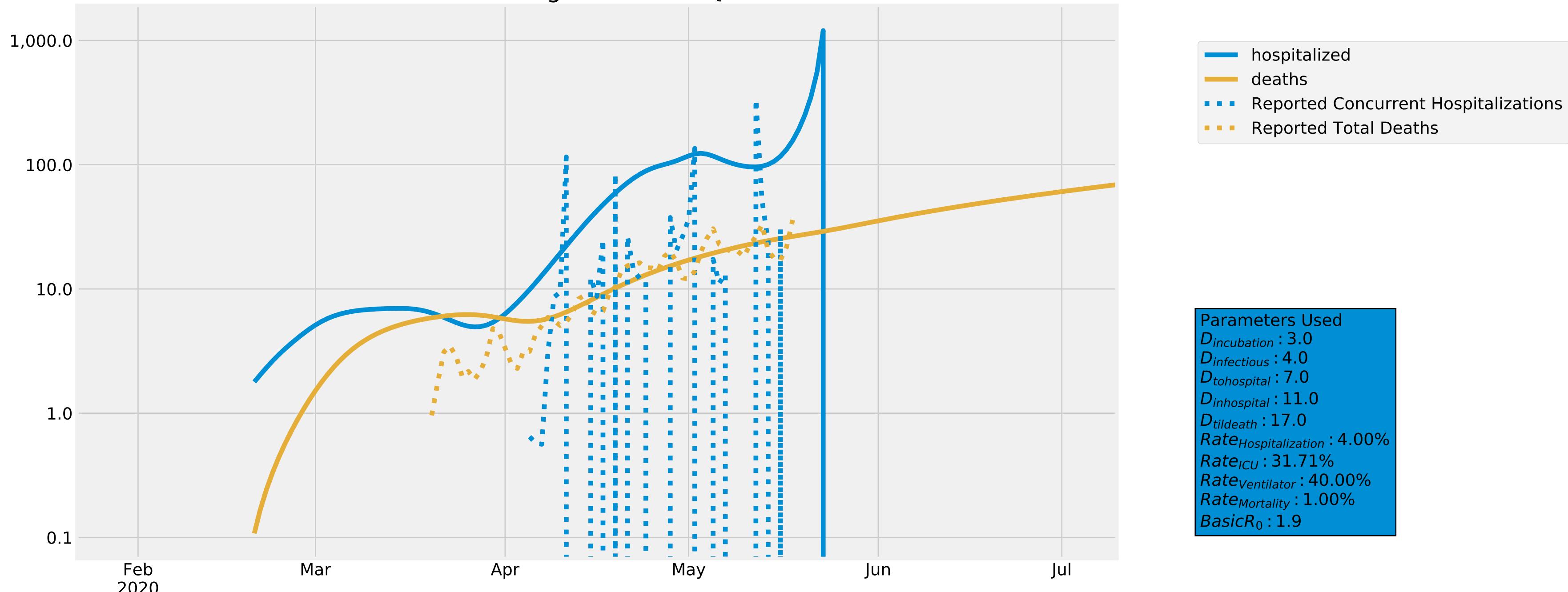
$D_{incubation}$: 3.0
$D_{infectious}$: 4.0
$D_{tohospital}$: 7.0
$D_{inhospital}$: 11.0
$D_{tildeath}$: 17.0
$Rate_{Hospitalization}$: 4.00%
$Rate_{ICU}$: 31.71%
$Rate_{Ventilator}$: 40.00%
$Rate_{Mortality}$: 1.00%
$BasicR_0$: 1.9

Daily Deaths Forecast Texas: No Change in Future R_t Scenario



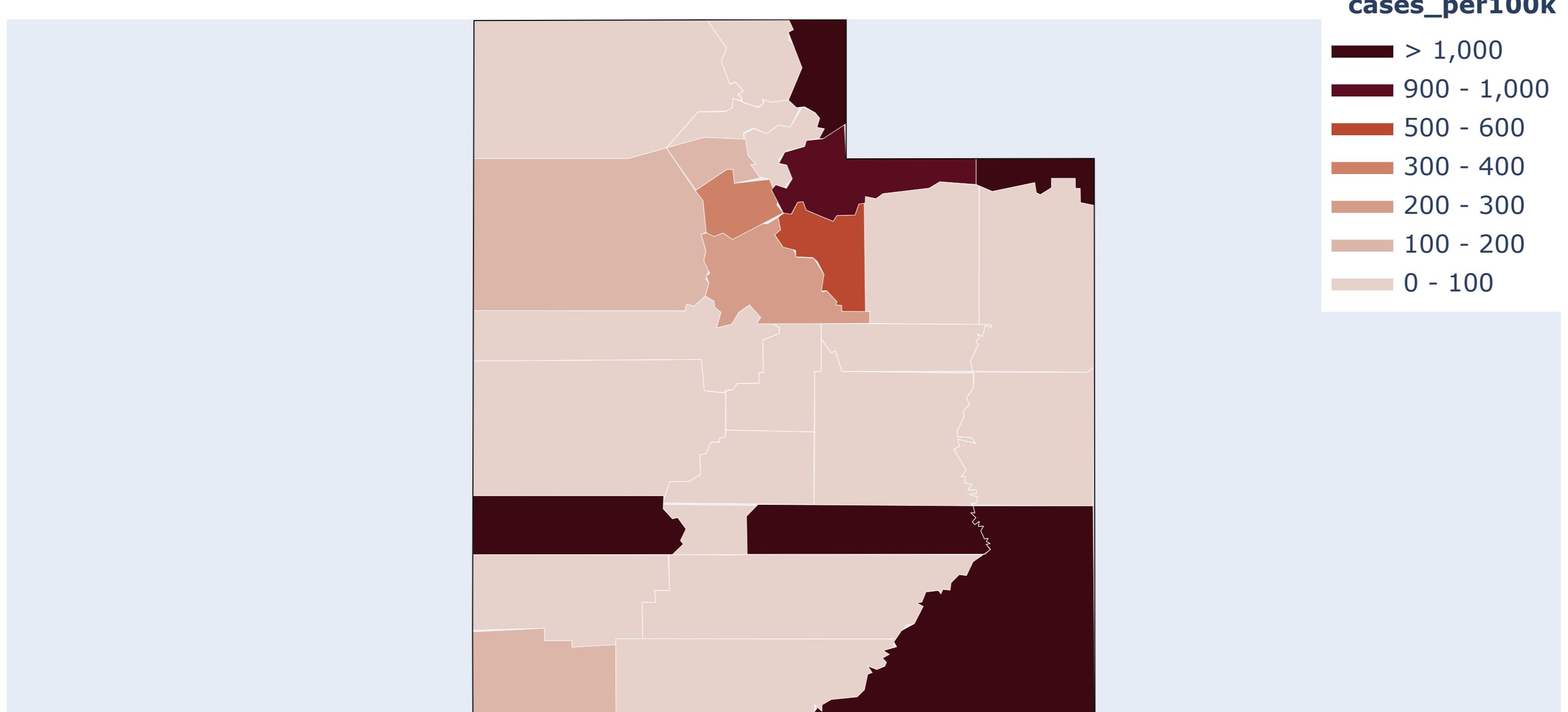
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Texas: No Change in Future R_t Scenario

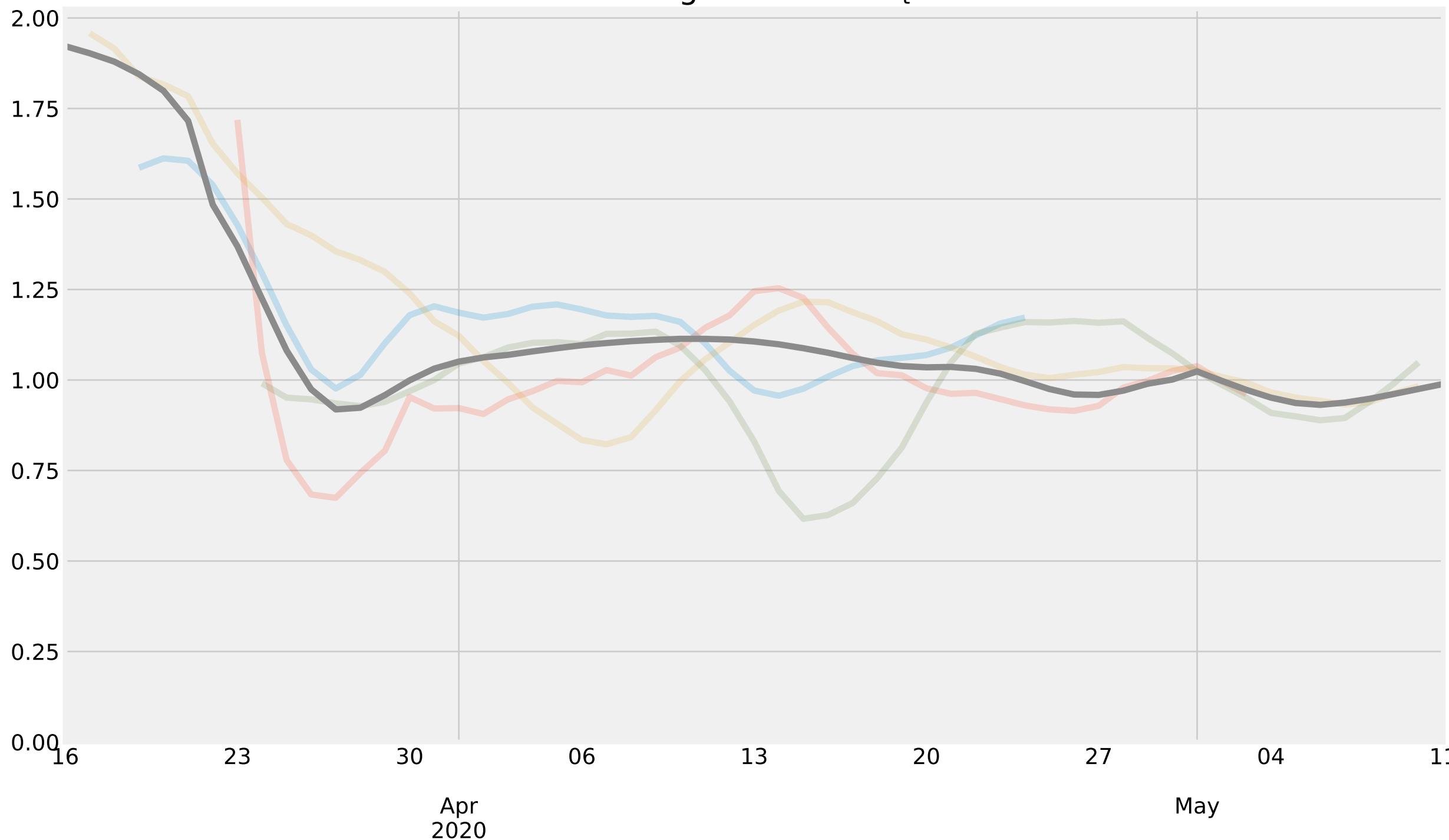


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Utah: COVID-19 Cases Per 100k Residents



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

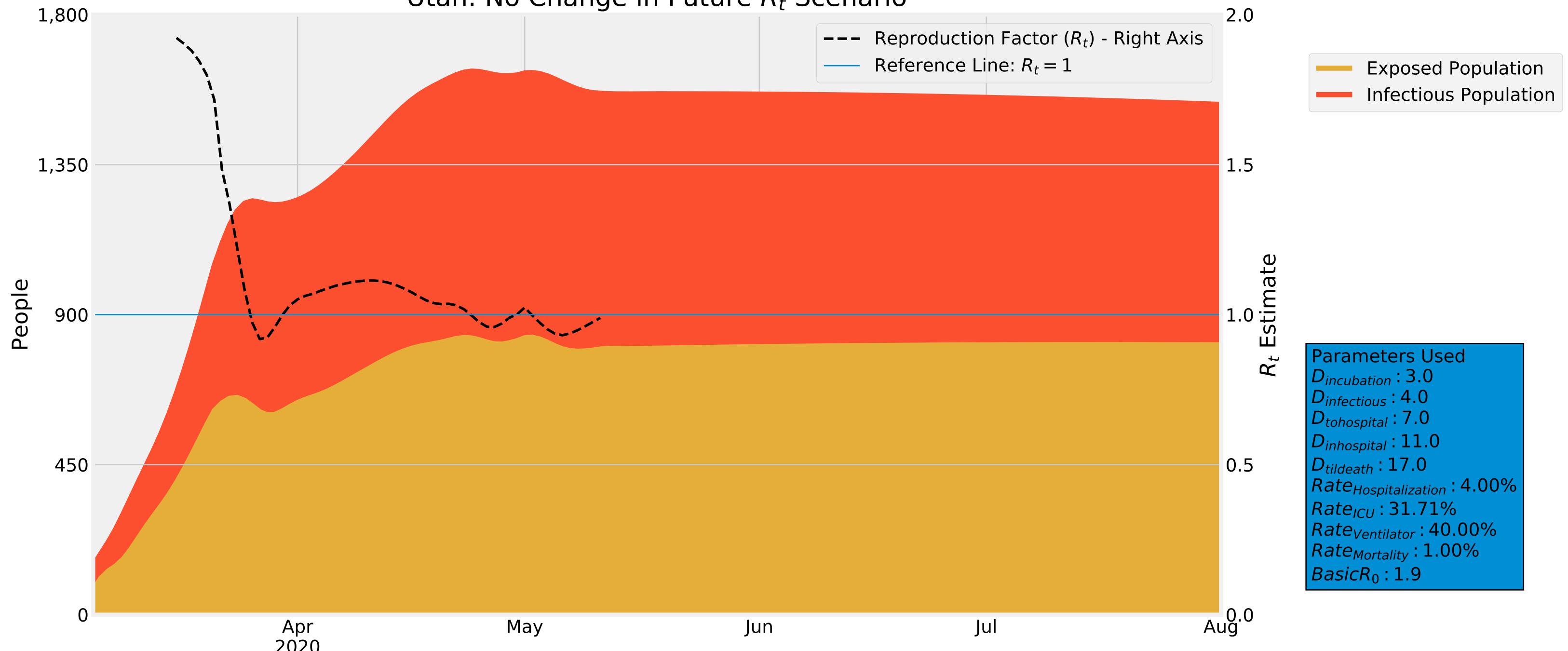


Parameters Used

$D_{incubation}$:	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%
Basic R_0 :	1.9

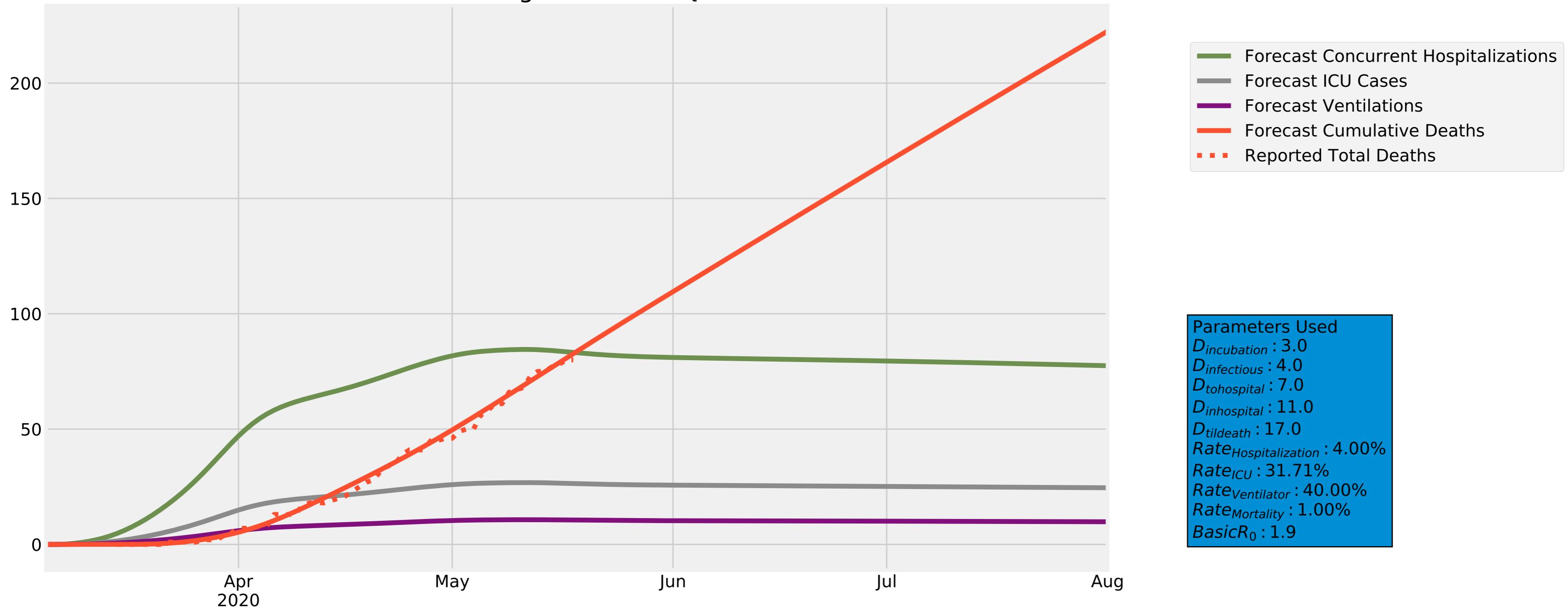
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Simultaneous Infections Forecast Utah: No Change in Future R_t Scenario



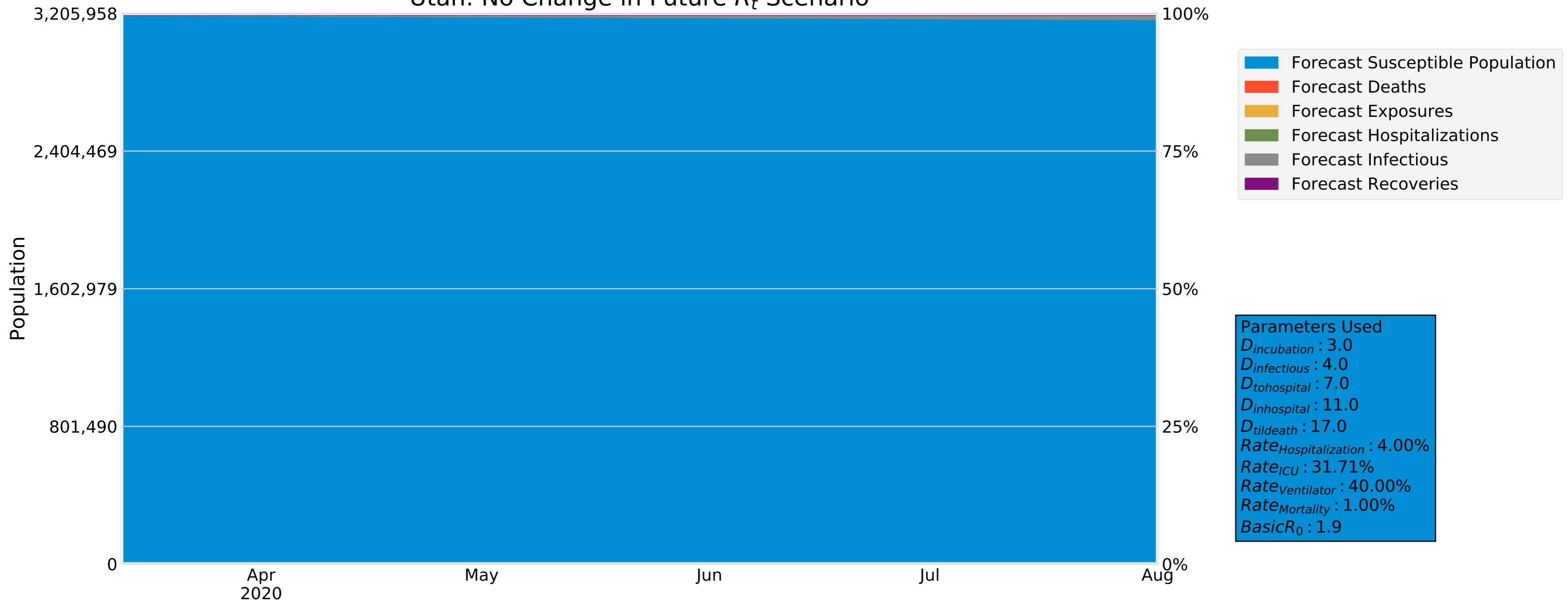
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

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

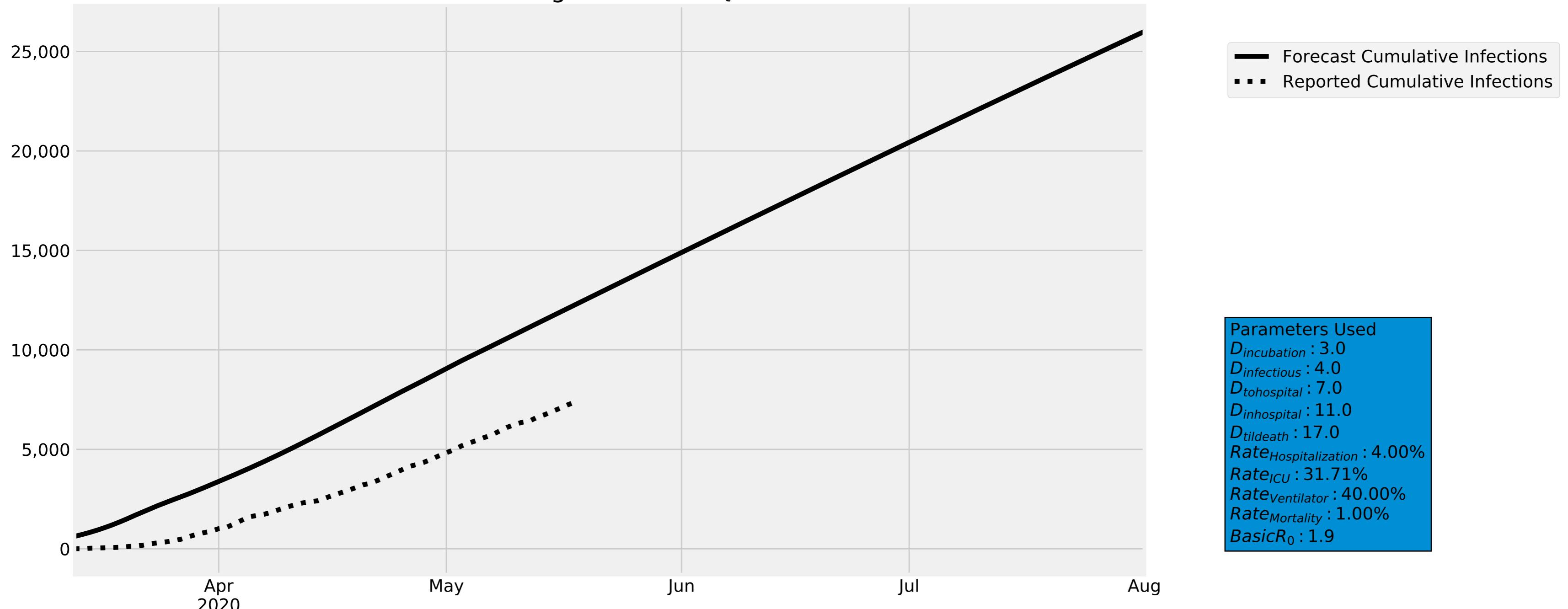


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast Utah: No Change in Future R_t Scenario

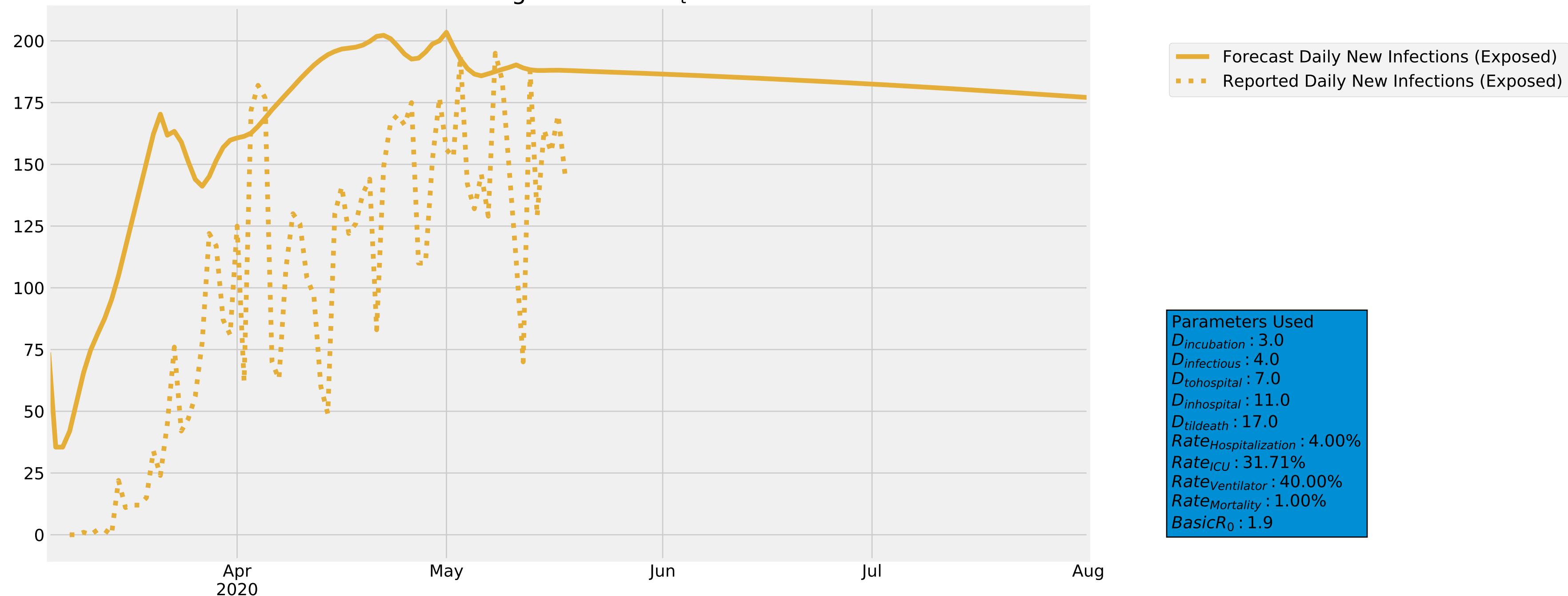


Cumulative Infections Forecast Utah: No Change in Future R_t Scenario



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

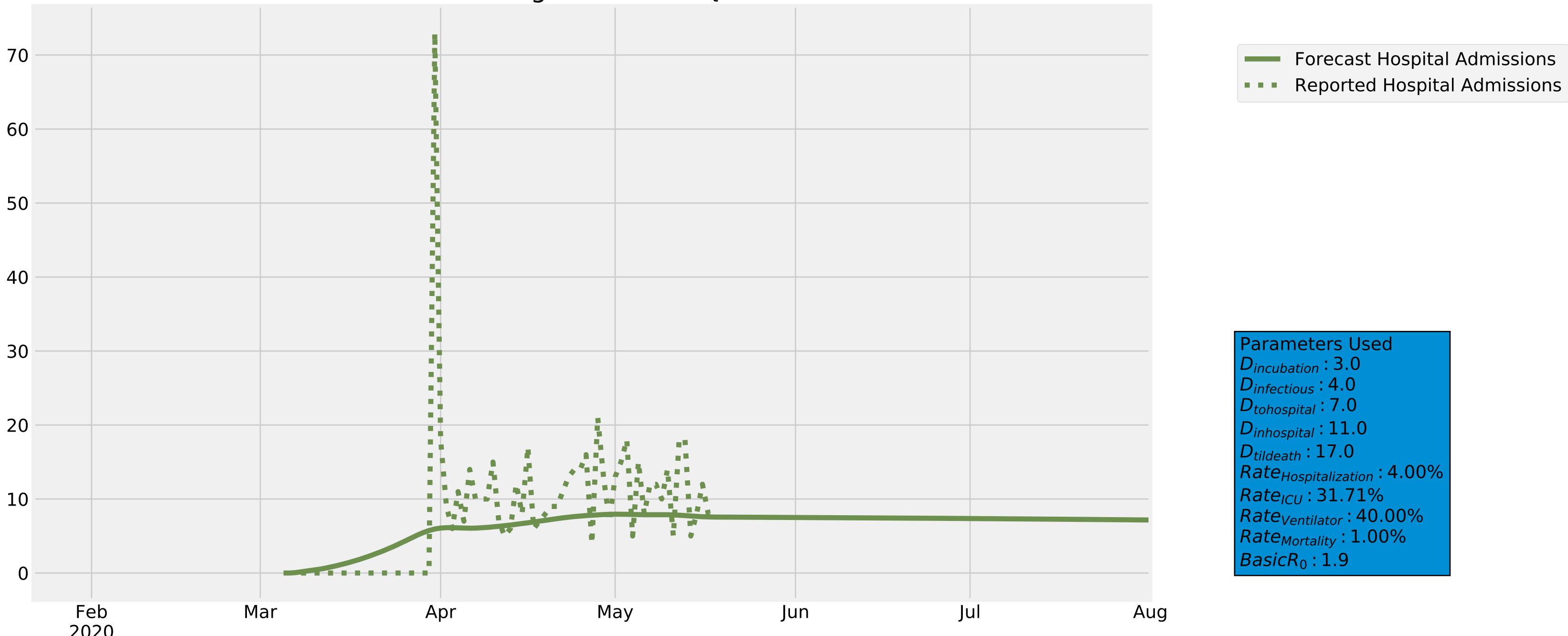
Daily Exposures Forecast Utah: No Change in Future R_t Scenario



Parameters Used

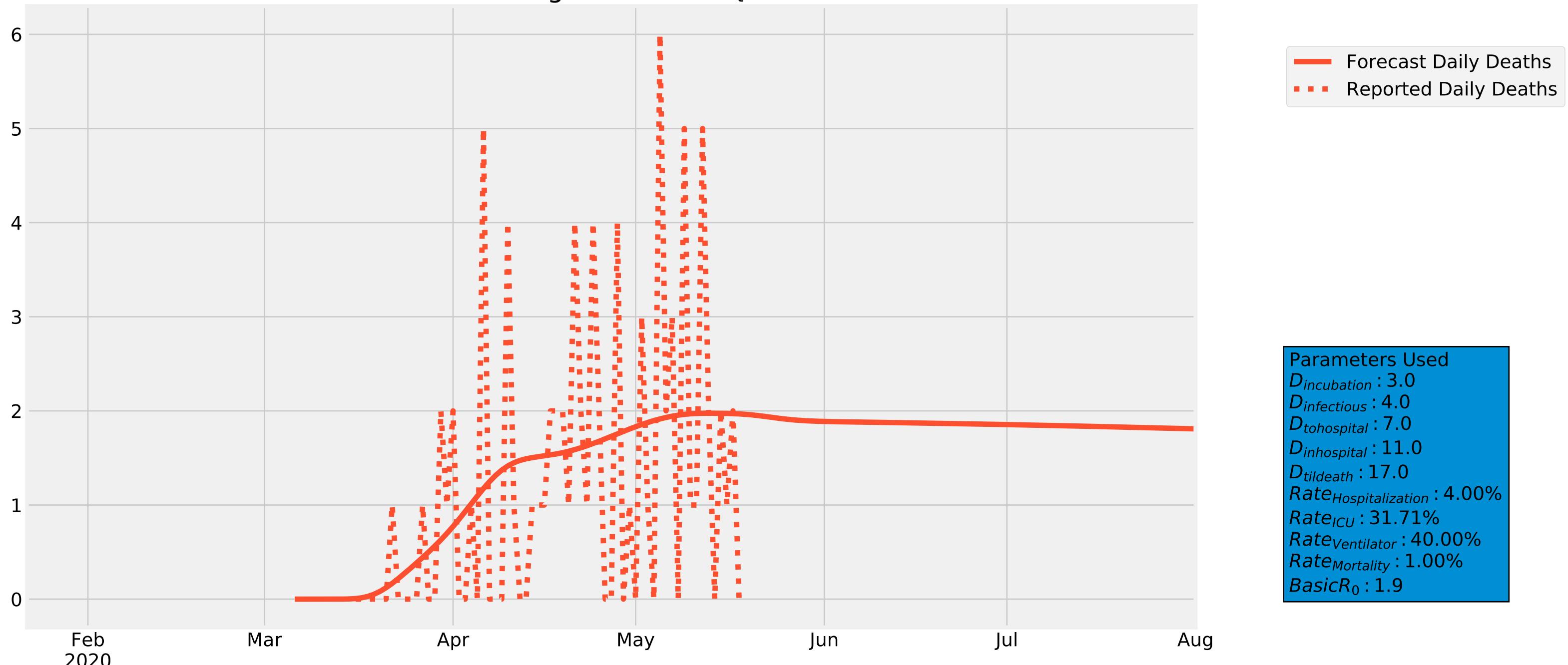
- $D_{incubation}$: 3.0
- $D_{infectious}$: 4.0
- $D_{tohospital}$: 7.0
- $D_{inhospital}$: 11.0
- $D_{tildeath}$: 17.0
- $Rate_{Hospitalization}$: 4.00%
- $Rate_{ICU}$: 31.71%
- $Rate_{Ventilator}$: 40.00%
- $Rate_{Mortality}$: 1.00%
- $BasicR_0$: 1.9

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



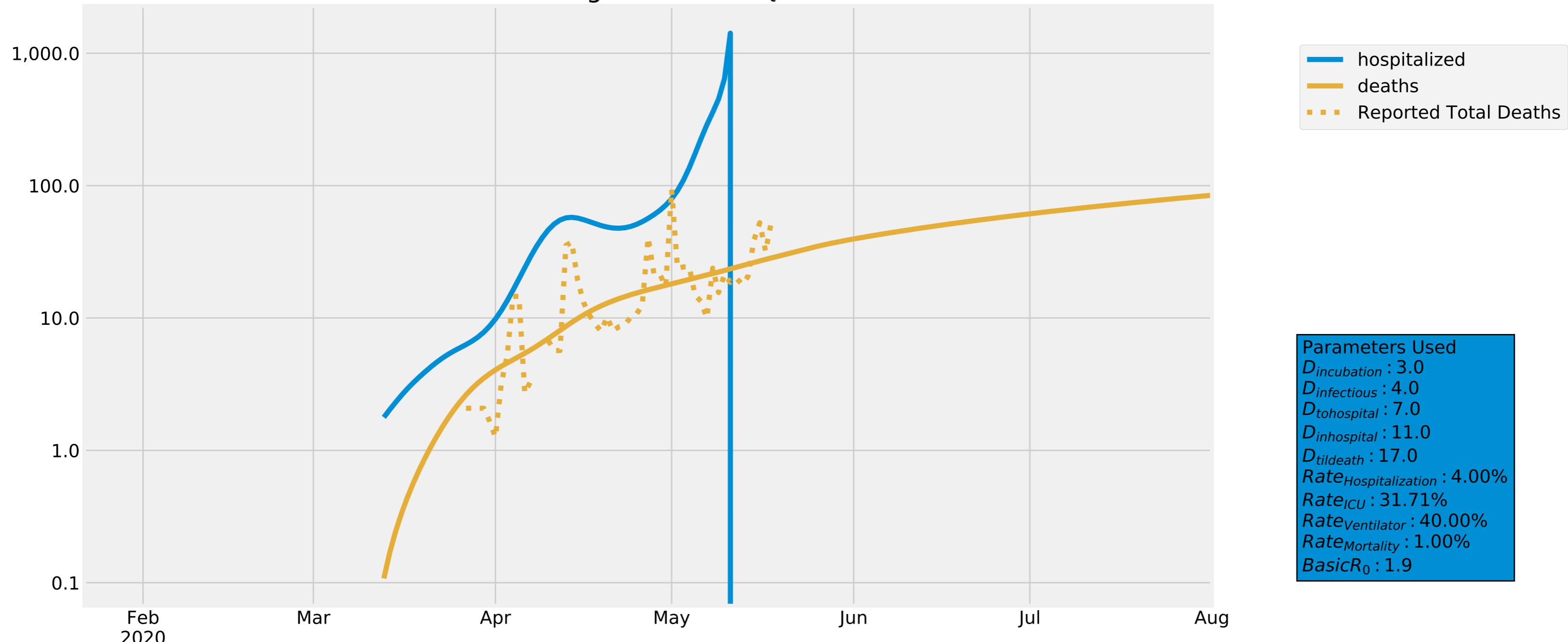
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Daily Deaths Forecast Utah: No Change in Future R_t Scenario



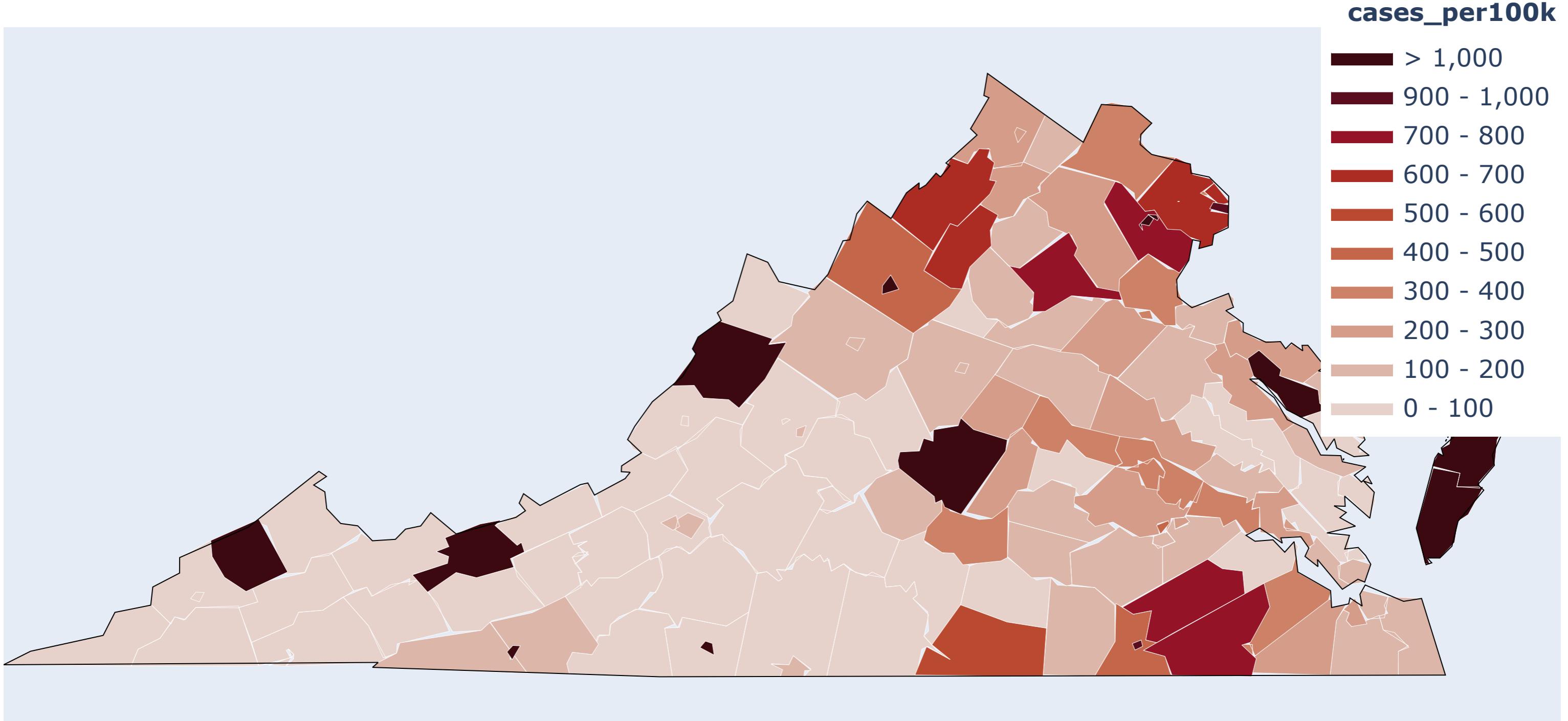
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Utah: No Change in Future R_t Scenario

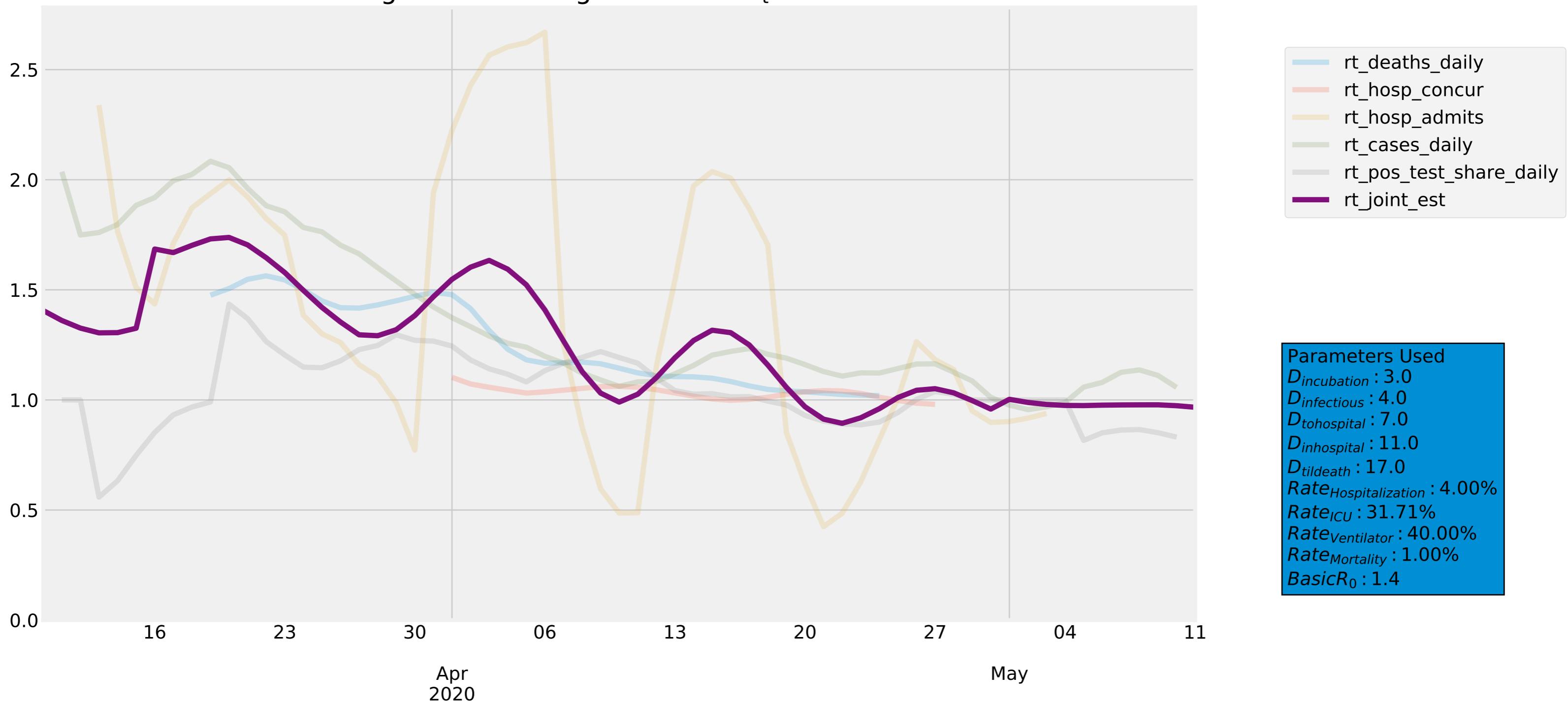


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Virginia: COVID-19 Cases Per 100k Residents



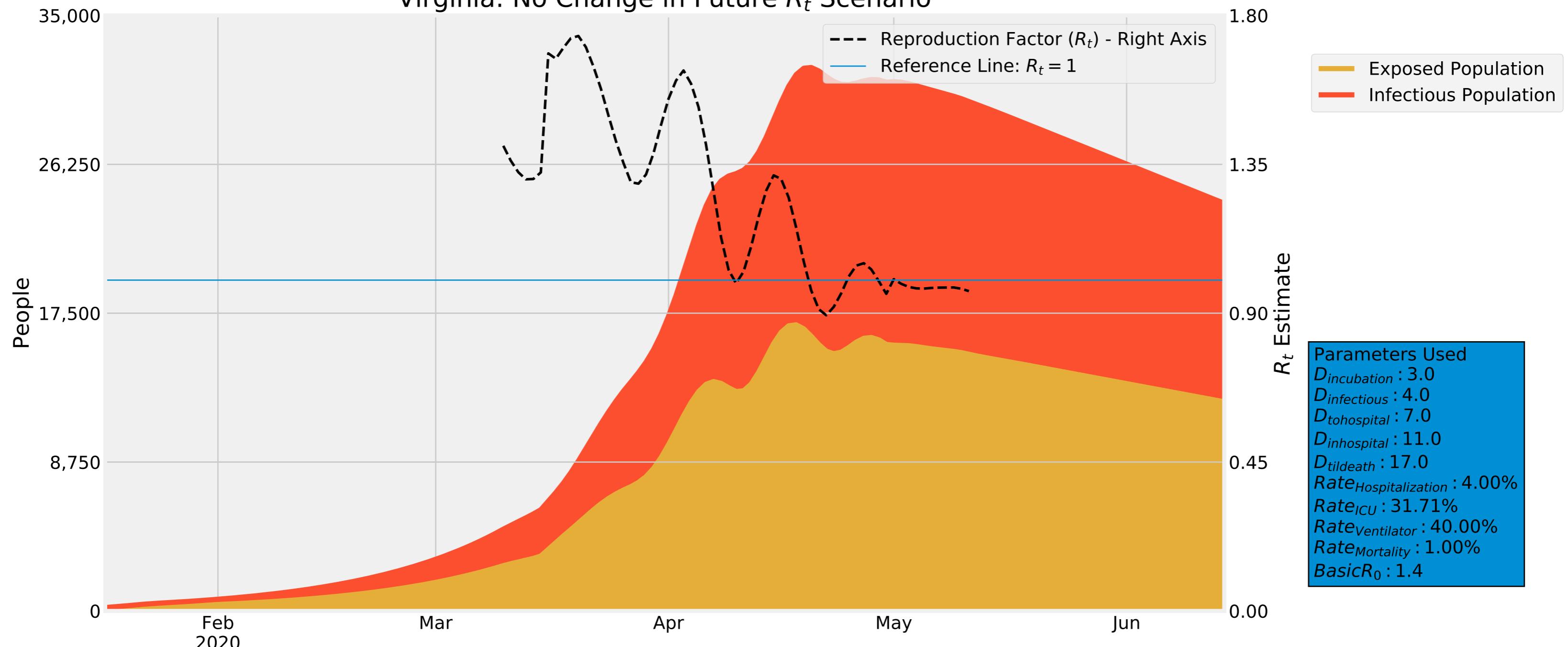
Reproduction Rate (R_t) Estimates Virginia: No Change in Future R_t Scenario



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

Simultaneous Infections Forecast

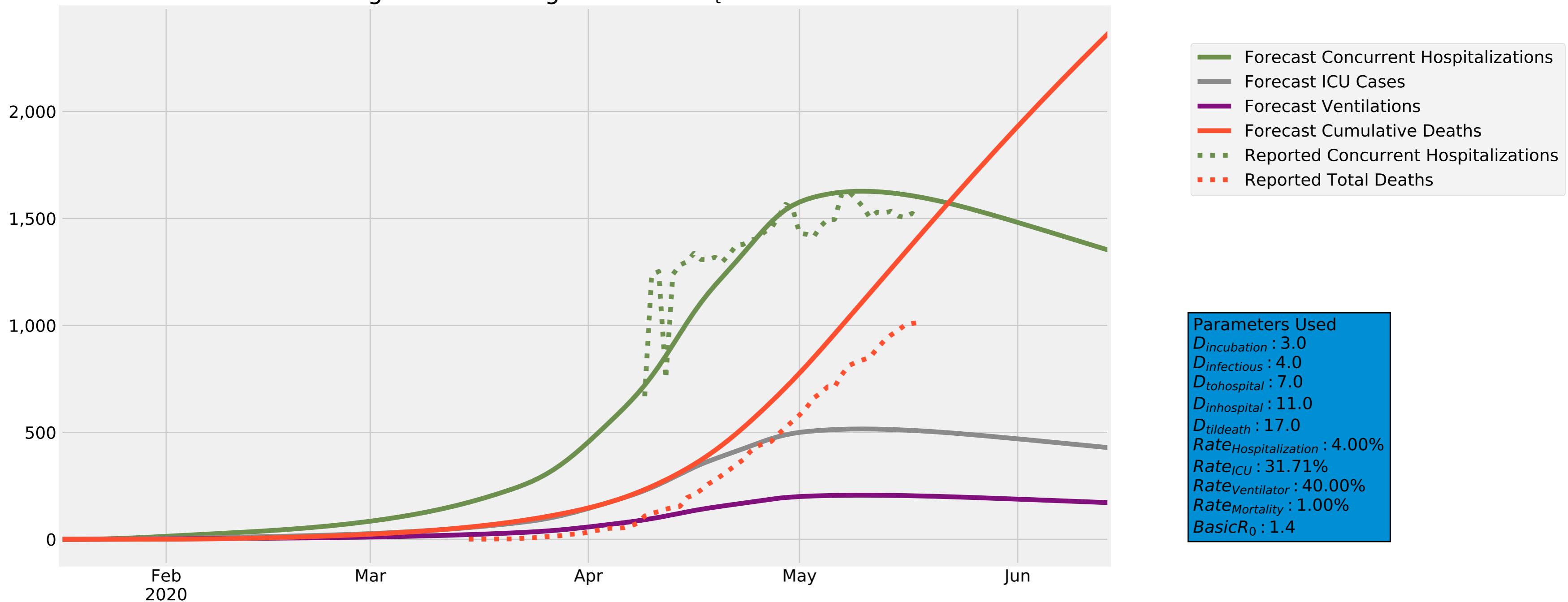
Virginia: No Change in Future R_t Scenario



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

Hospitalization and Deaths Forecast

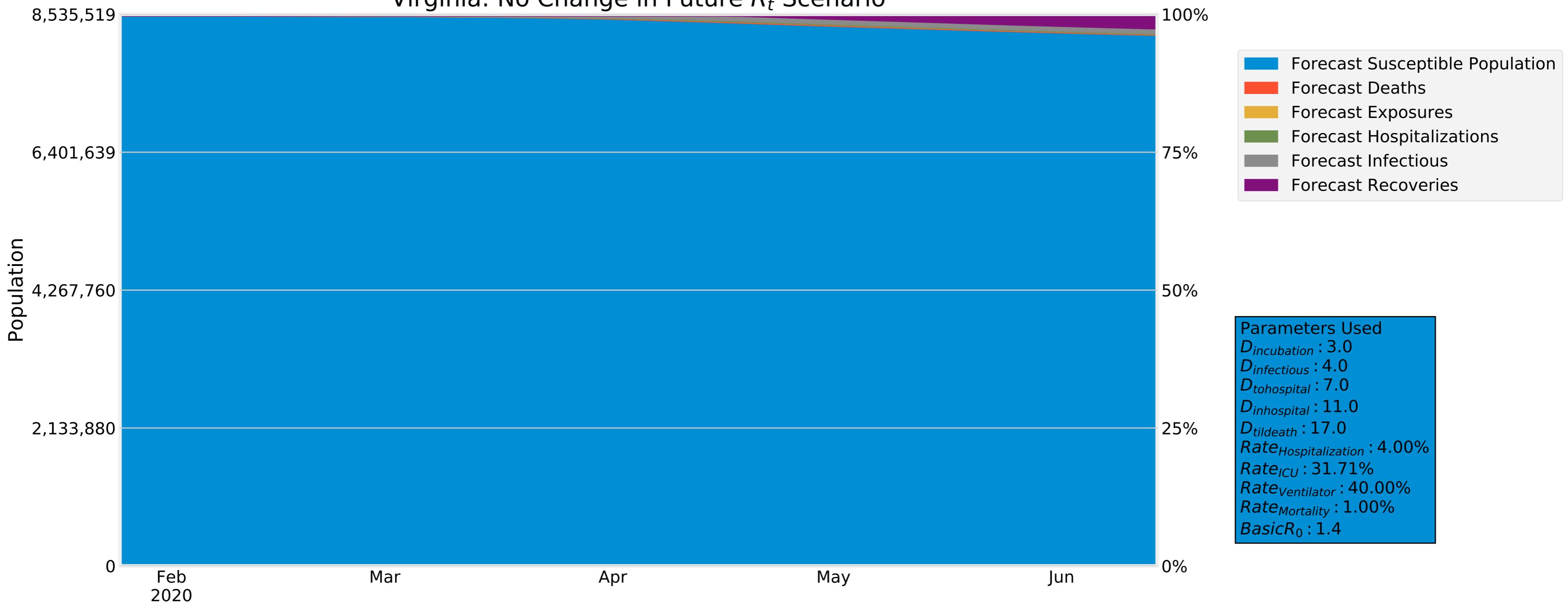
Virginia: No Change in Future R_t Scenario



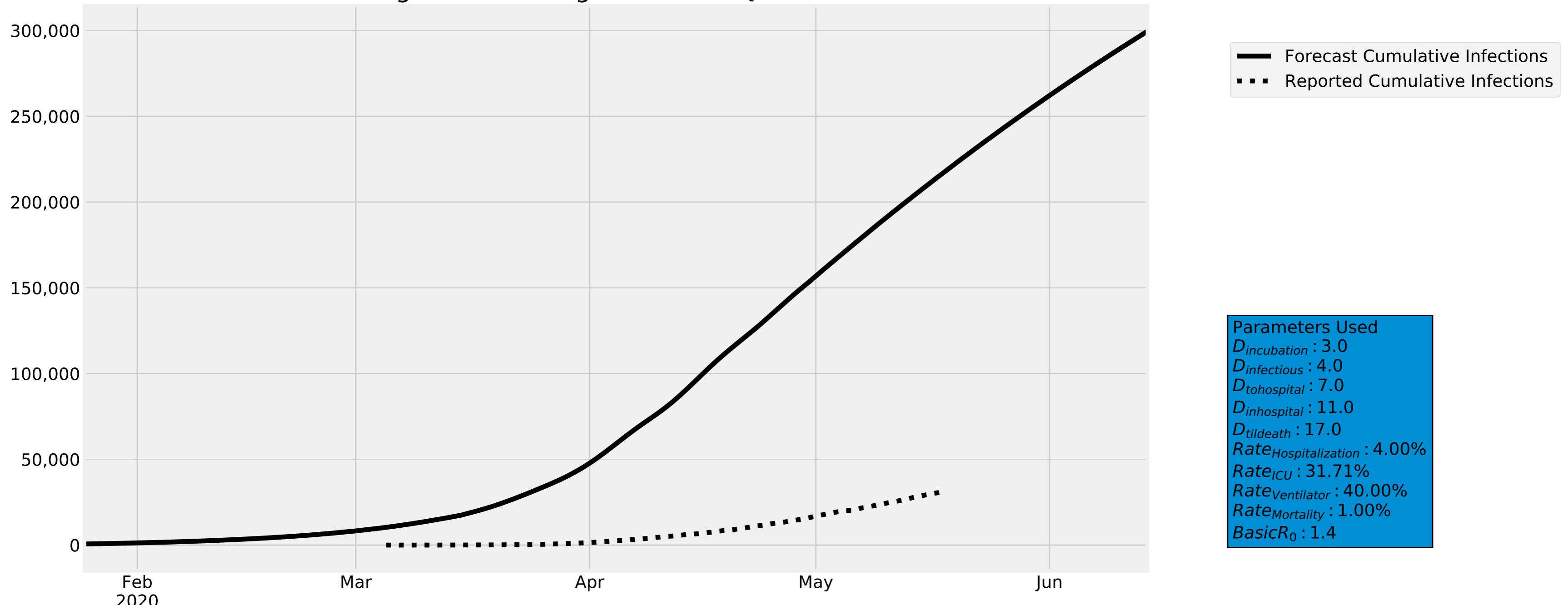
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

Virginia: No Change in Future R_t Scenario



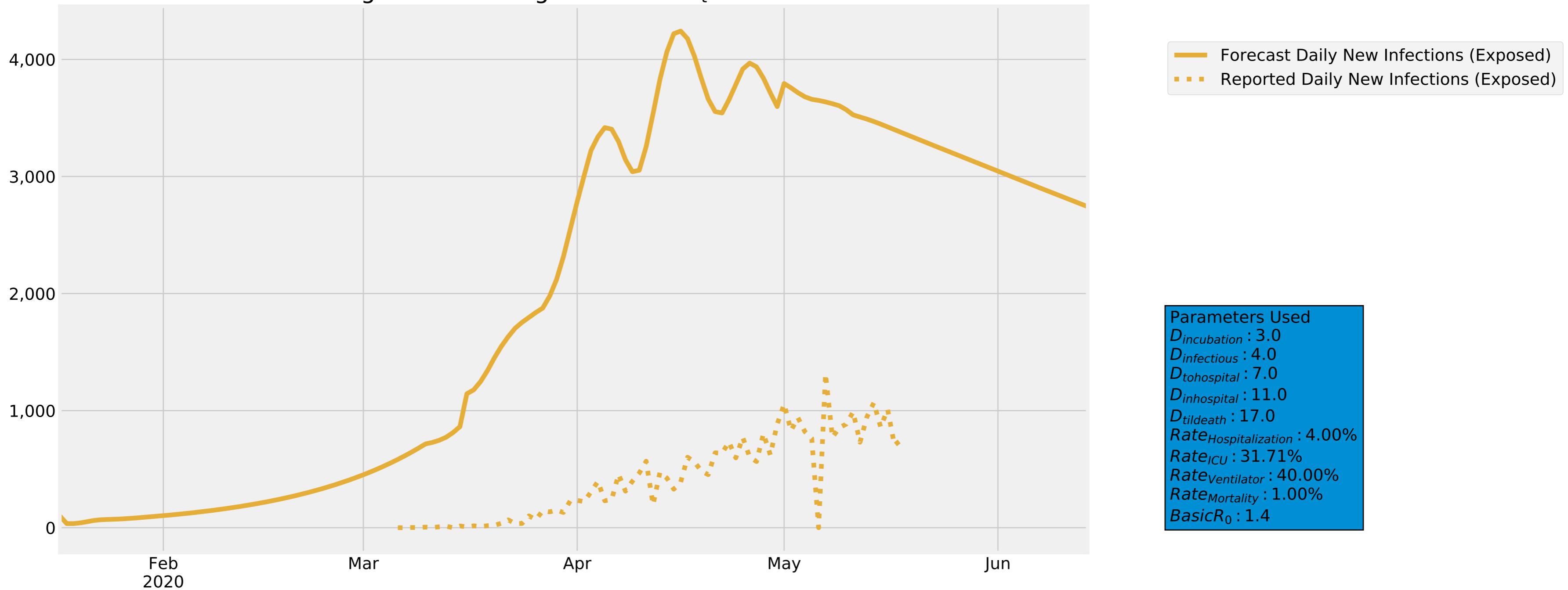
Cumulative Infections Forecast Virginia: No Change in Future R_t Scenario



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%
- $BasicR_0$: 1.4

Daily Exposures Forecast Virginia: No Change in Future R_t Scenario

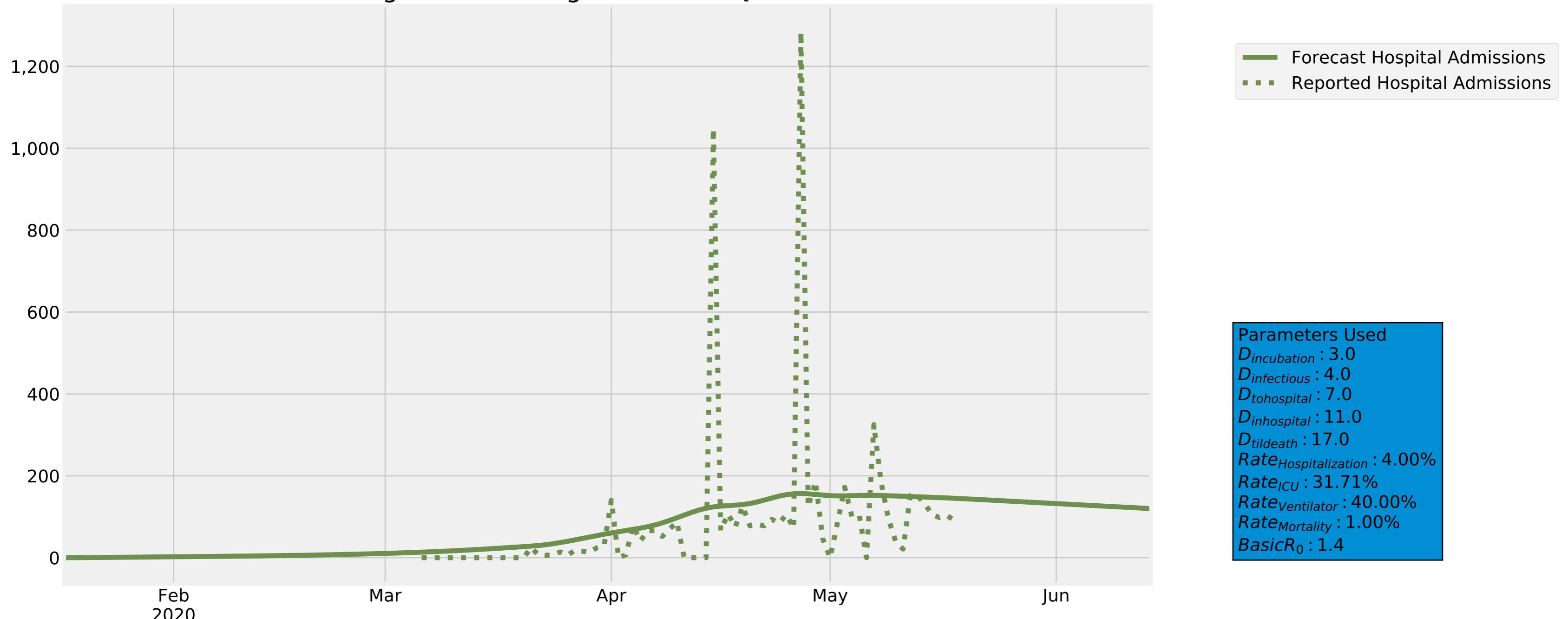


Parameters Used

$D_{incubation}$: 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%
 $BasicR_0$: 1.4

Daily Hospital Admissions Forecast

Virginia: No Change in Future R_t Scenario

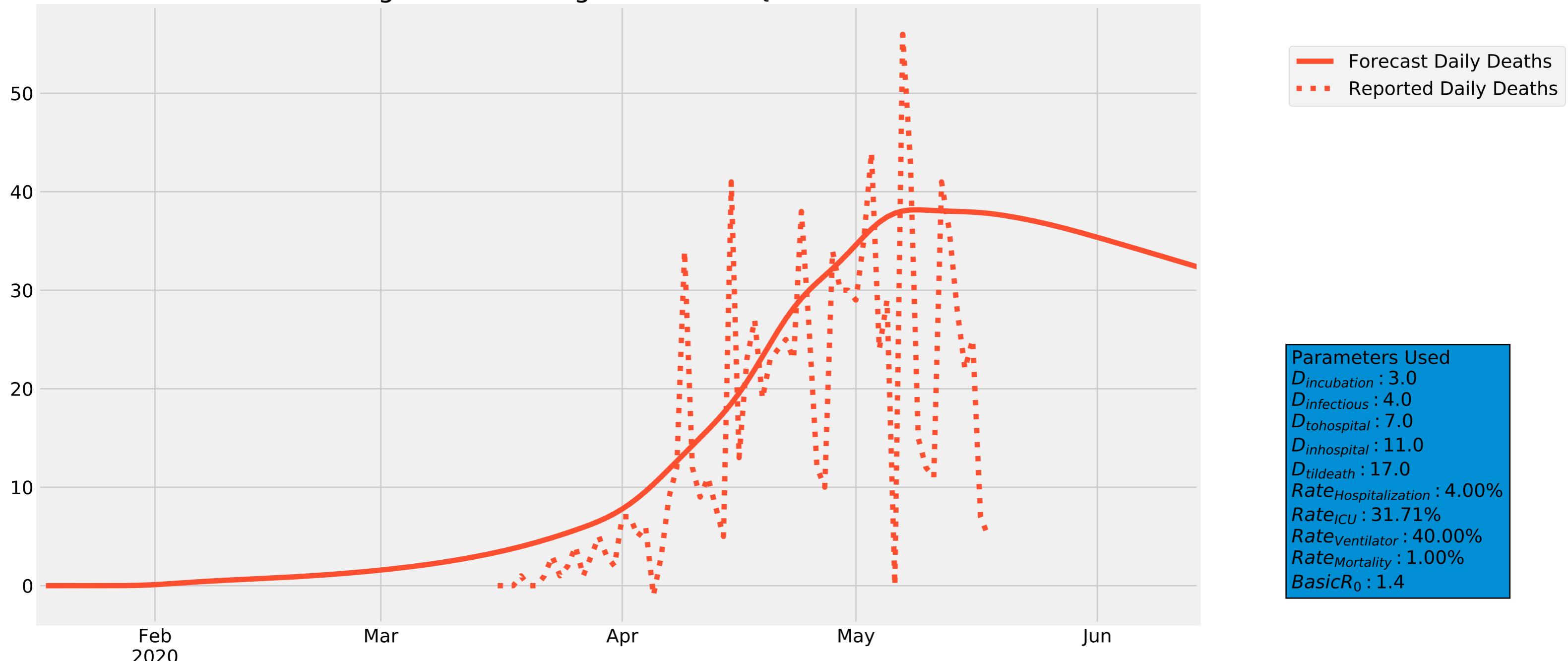


Parameters Used

- $D_{incubation}$: 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%
- $BasicR_0$: 1.4

Daily Deaths Forecast

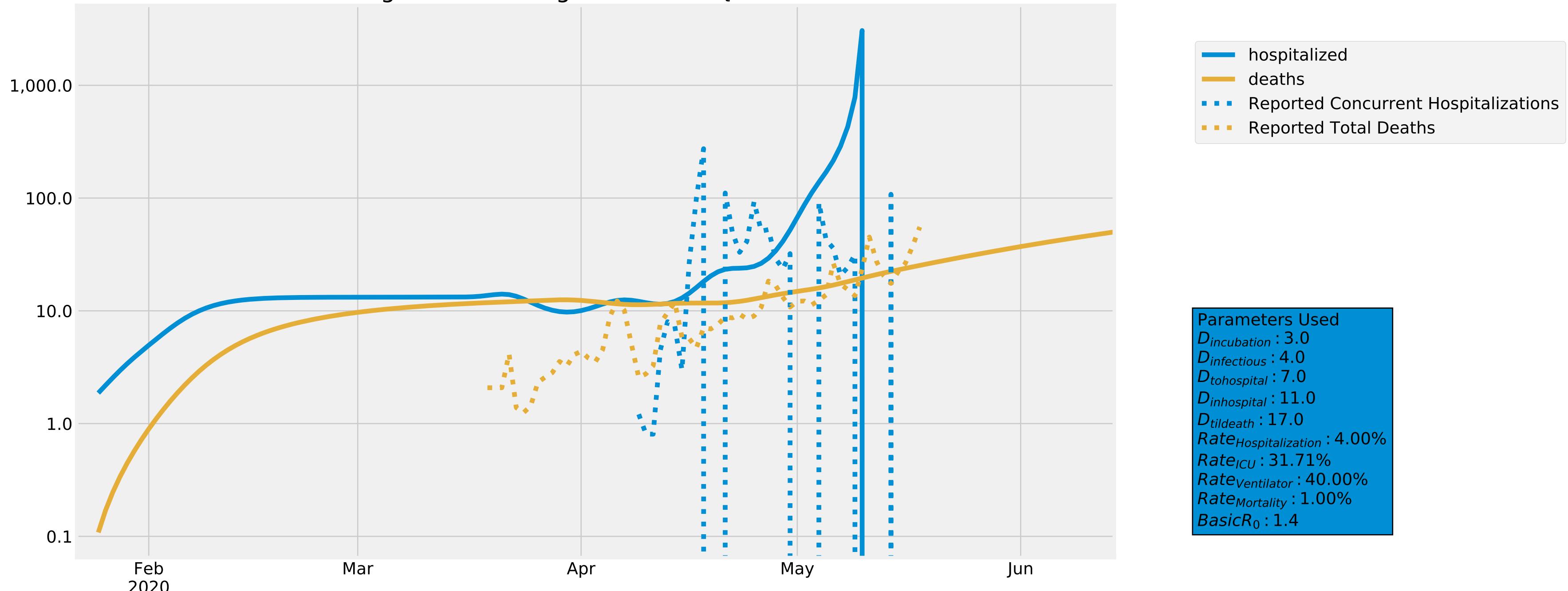
Virginia: No Change in Future R_t Scenario



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

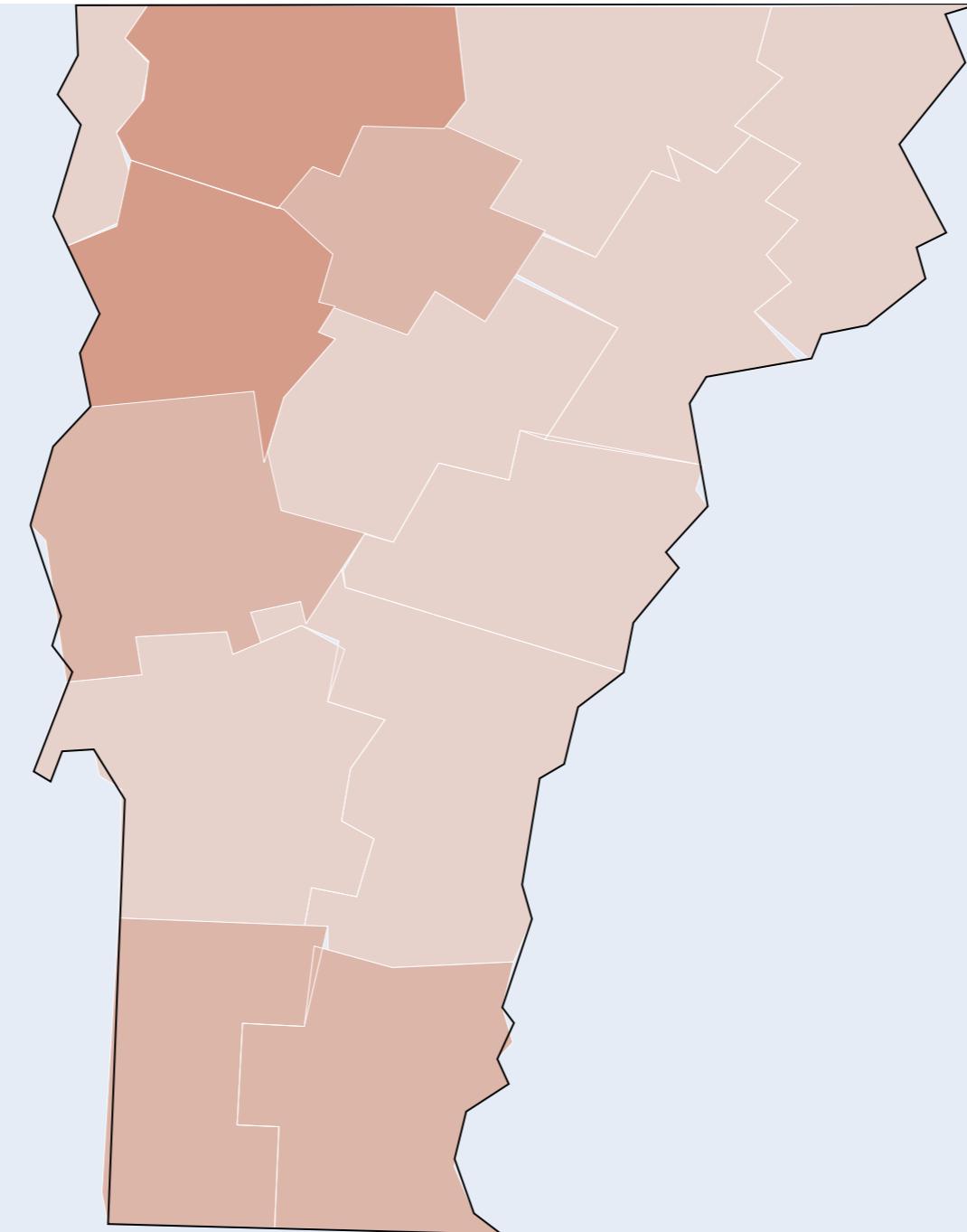
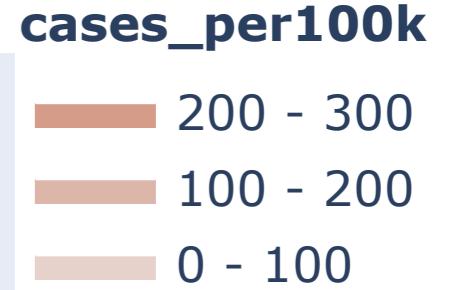
Doubling Rate Forecast

Virginia: No Change in Future R_t Scenario

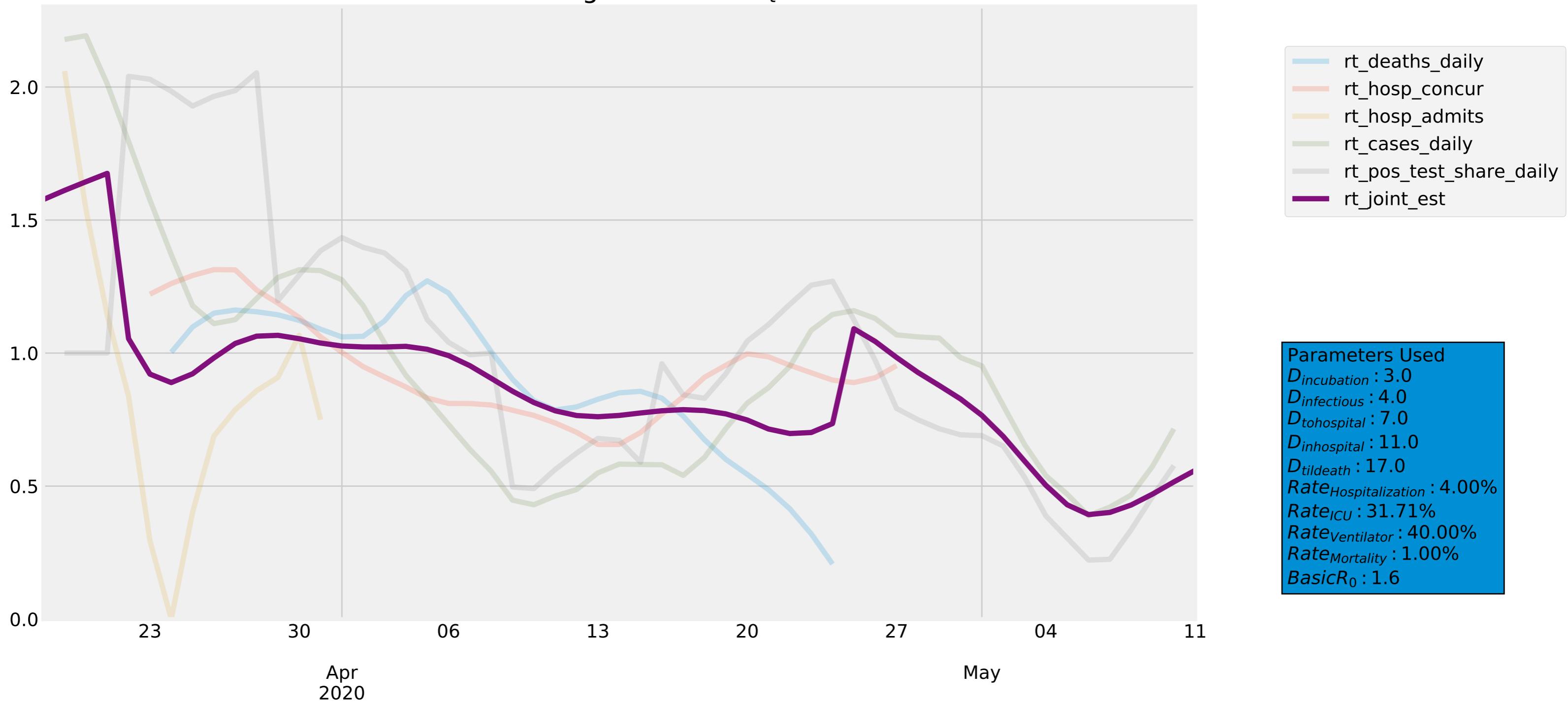


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Vermont: COVID-19 Cases Per 100k Residents



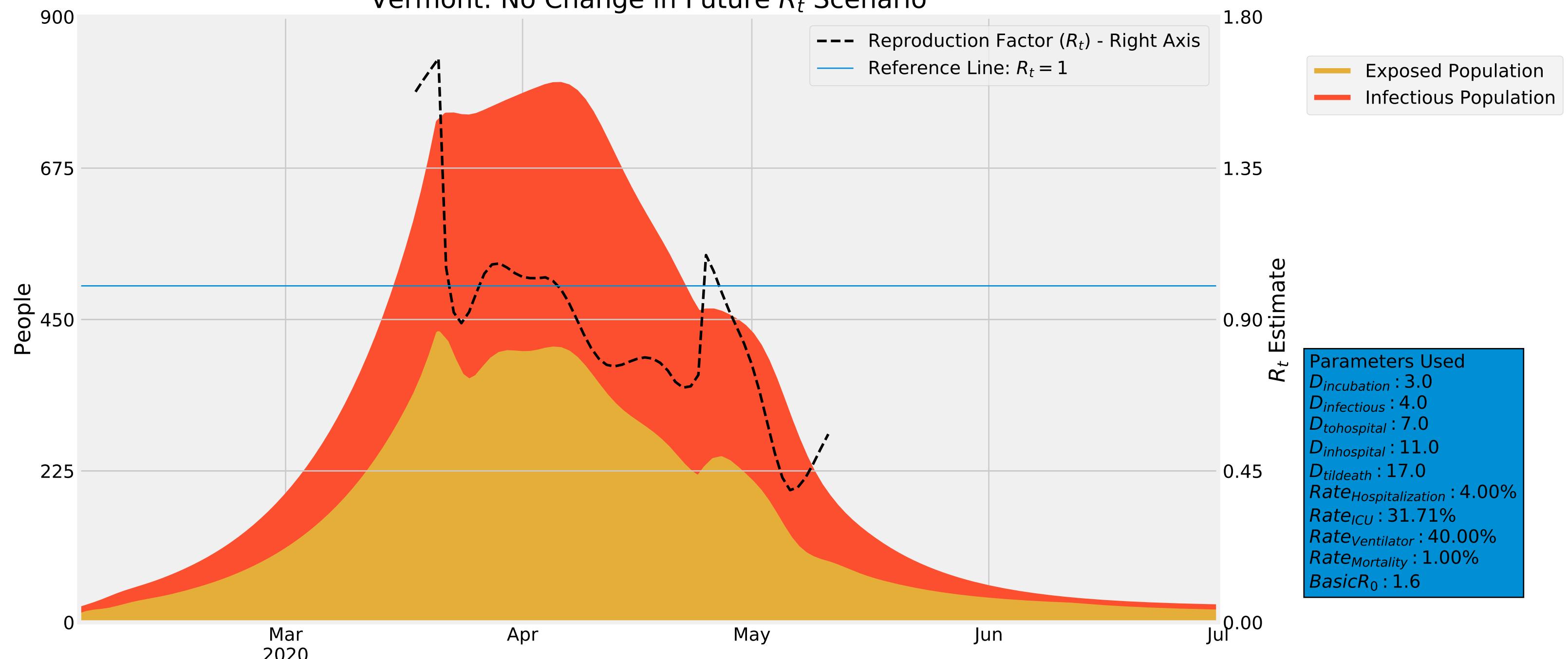
Reproduction Rate (R_t) Estimates Vermont: No Change in Future R_t Scenario



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

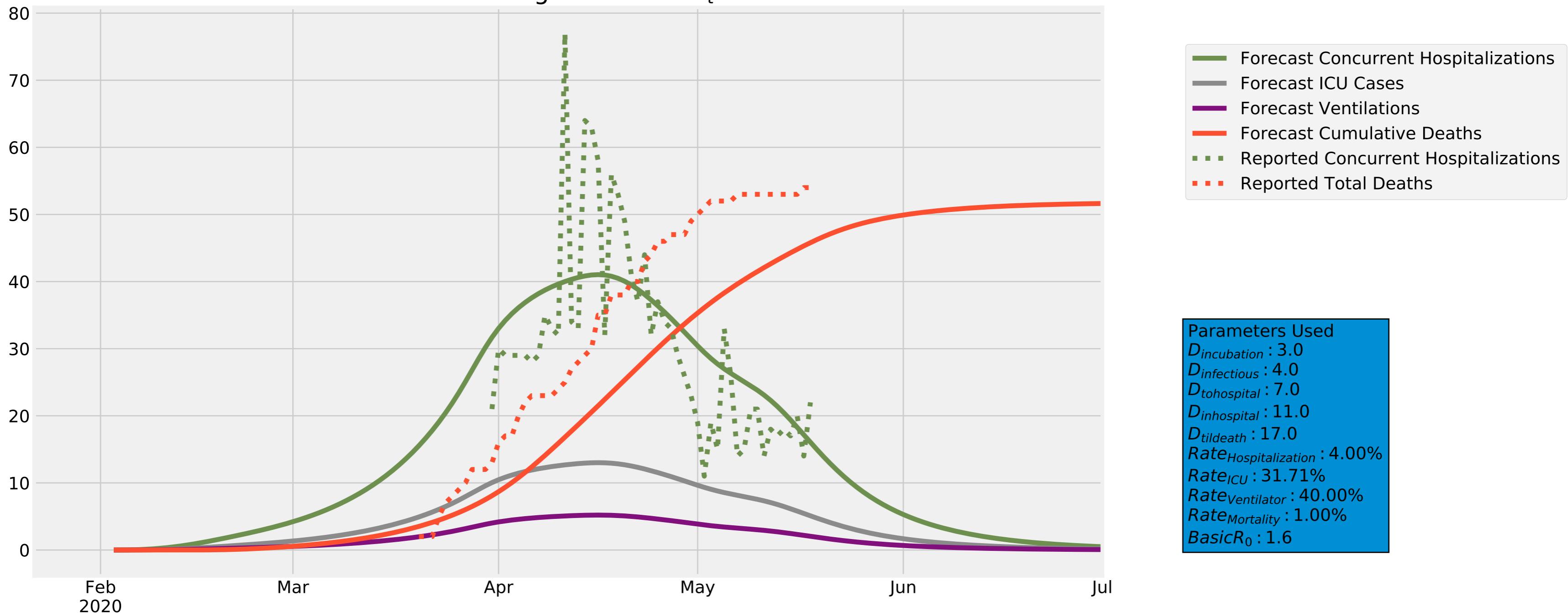
Simultaneous Infections Forecast

Vermont: No Change in Future R_t Scenario



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

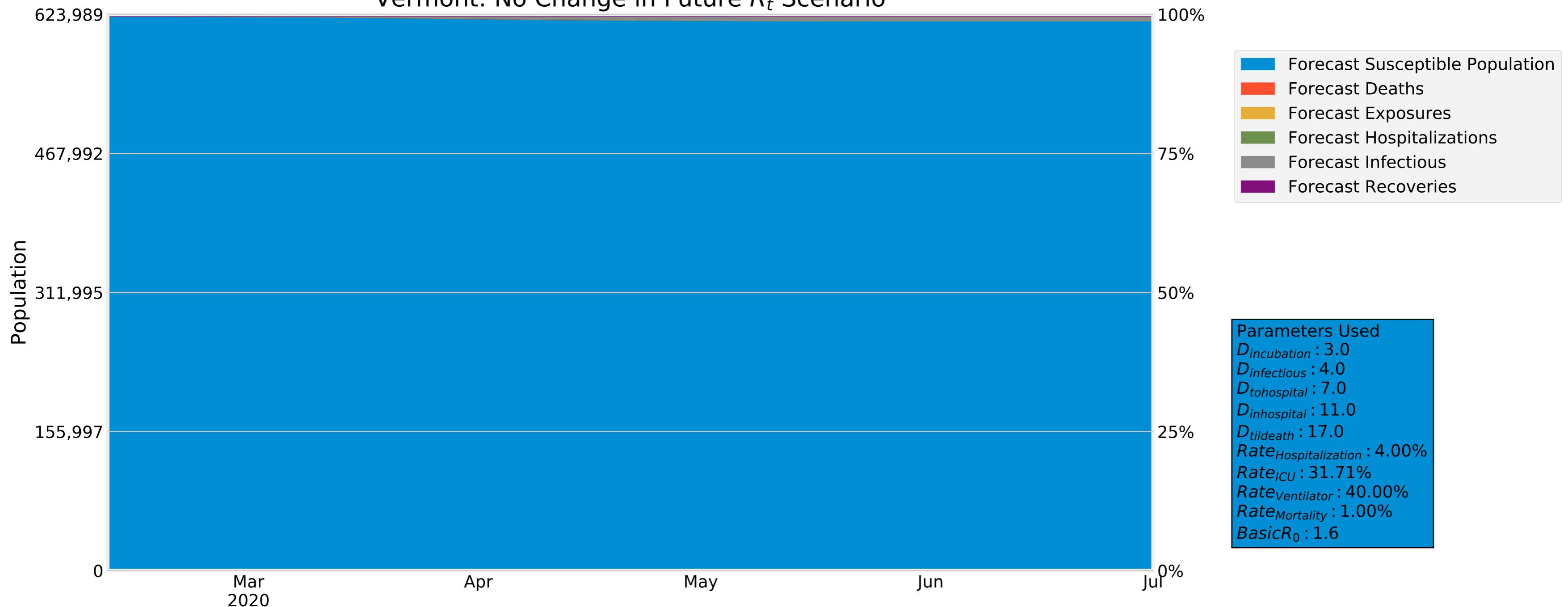
Hospitalization and Deaths Forecast Vermont: No Change in Future R_t Scenario



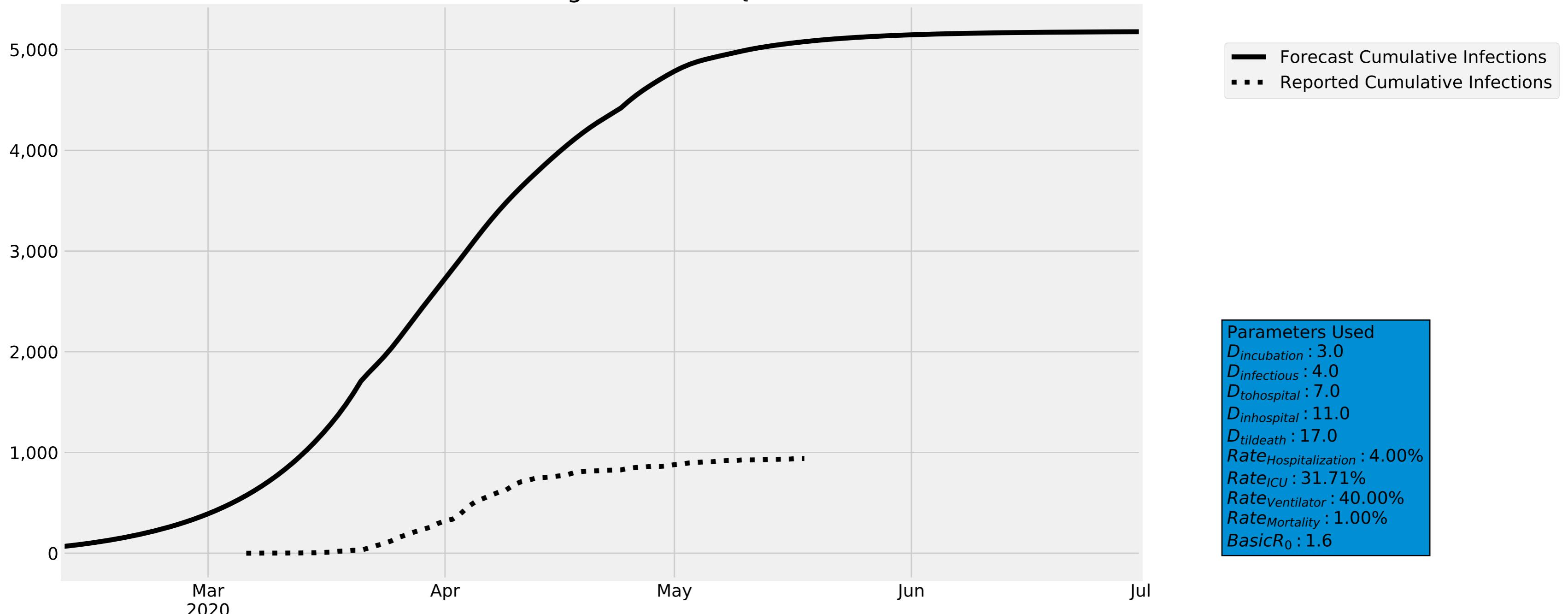
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

Vermont: No Change in Future R_t Scenario



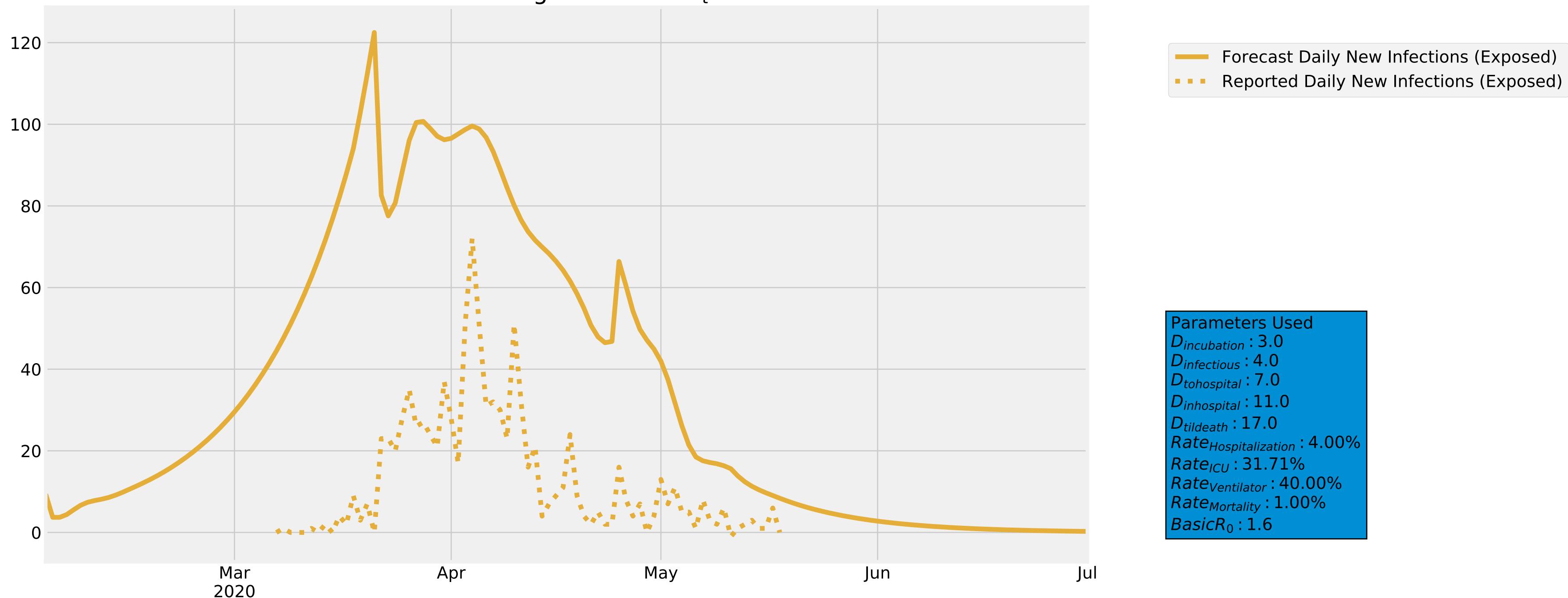
Cumulative Infections Forecast Vermont: No Change in Future R_t Scenario



Parameters Used

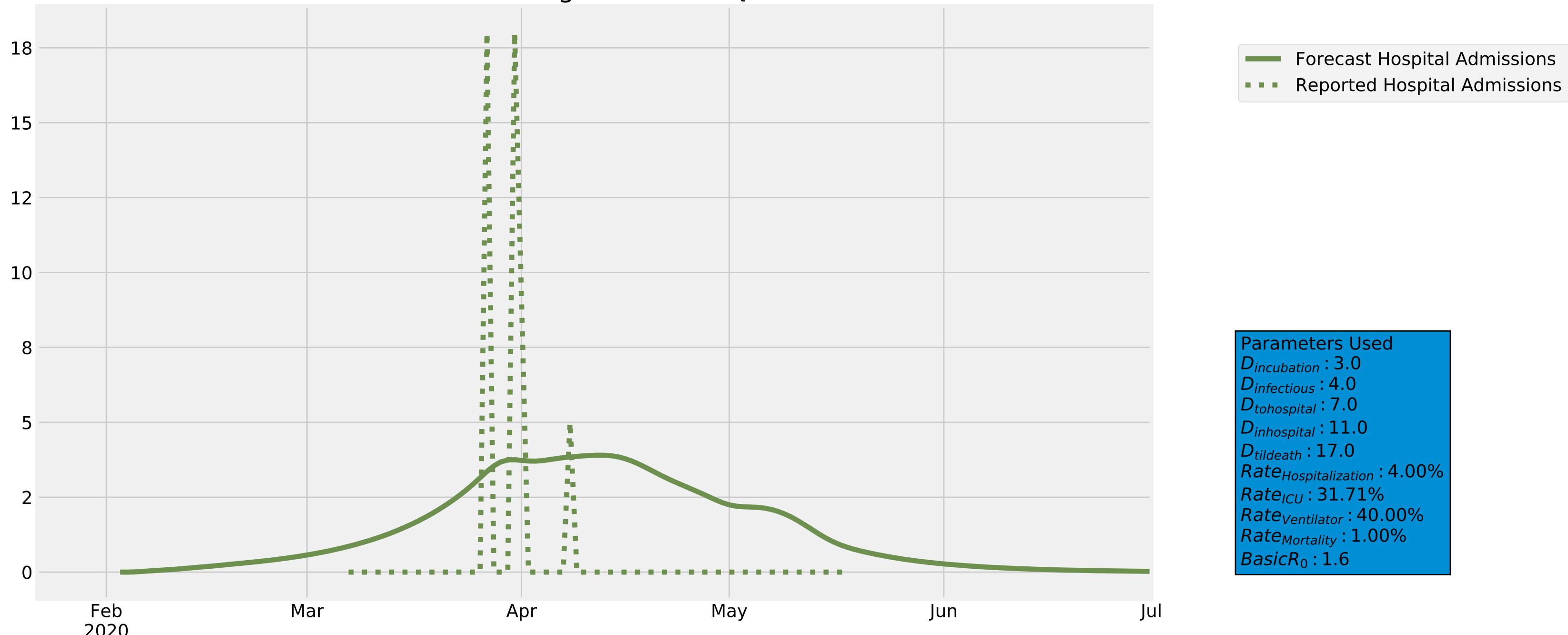
- $D_{incubation}$: 3.0
- $D_{infectious}$: 4.0
- $D_{tohospital}$: 7.0
- $D_{inhospital}$: 11.0
- $D_{tildeath}$: 17.0
- $Rate_{Hospitalization}$: 4.00%
- $Rate_{ICU}$: 31.71%
- $Rate_{Ventilator}$: 40.00%
- $Rate_{Mortality}$: 1.00%
- $BasicR_0$: 1.6

Daily Exposures Forecast Vermont: No Change in Future R_t Scenario



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

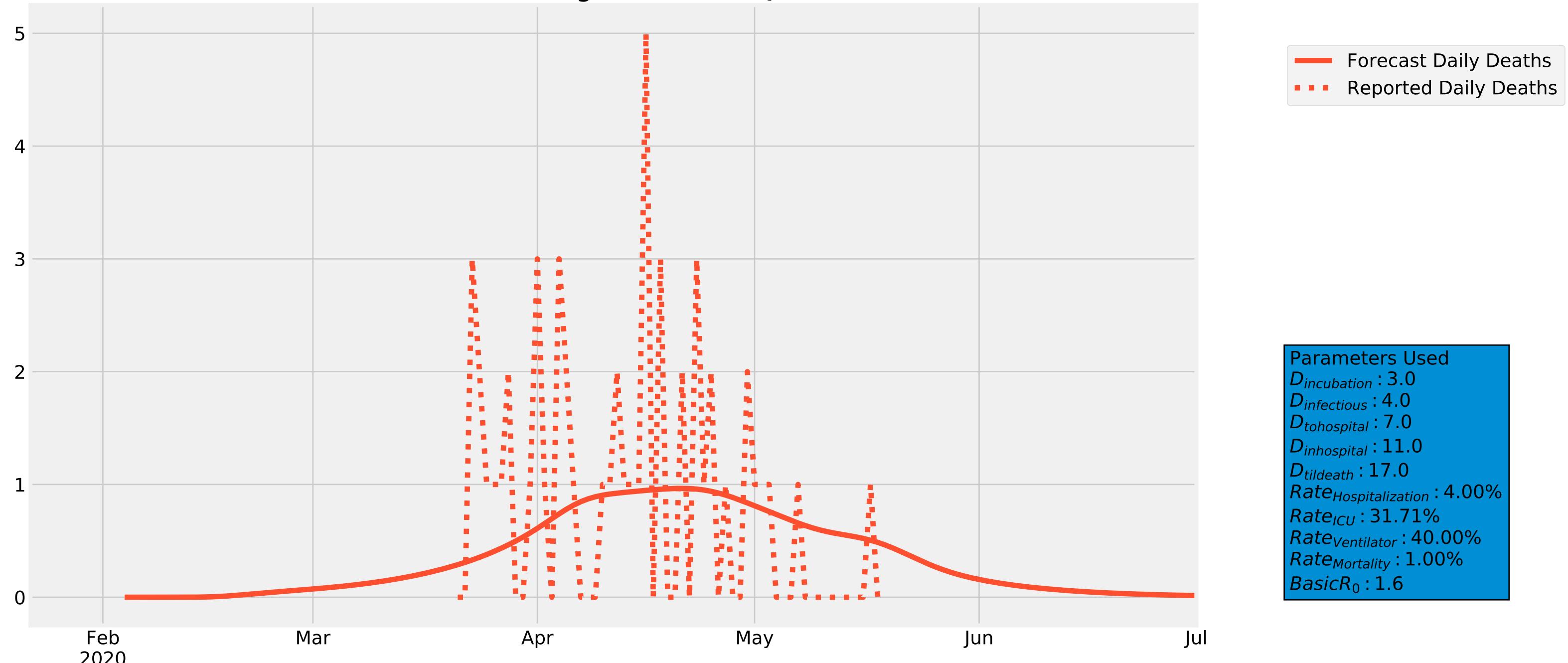
Daily Hospital Admissions Forecast Vermont: No Change in Future R_t Scenario



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%
 $BasicR_0$: 1.6

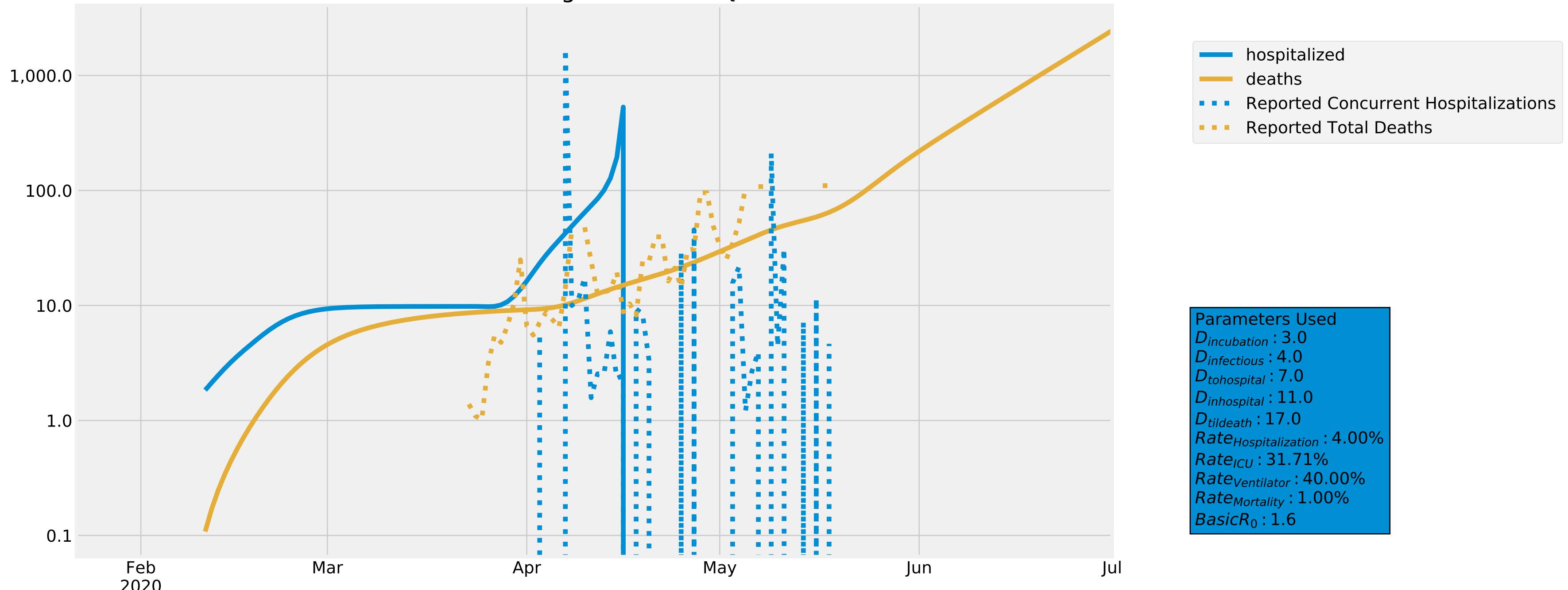
Daily Deaths Forecast Vermont: No Change in Future R_t Scenario



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

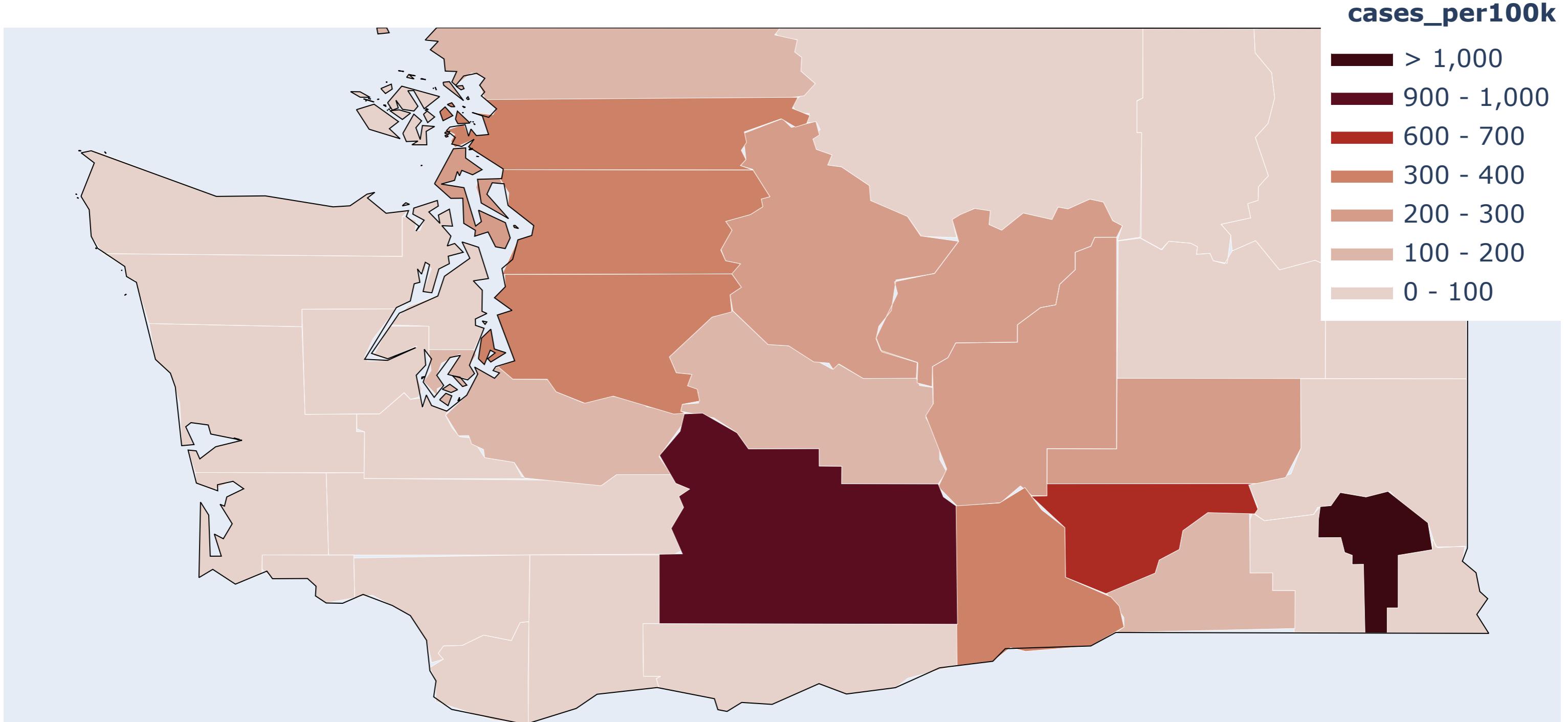
Doubling Rate Forecast

Vermont: No Change in Future R_t Scenario



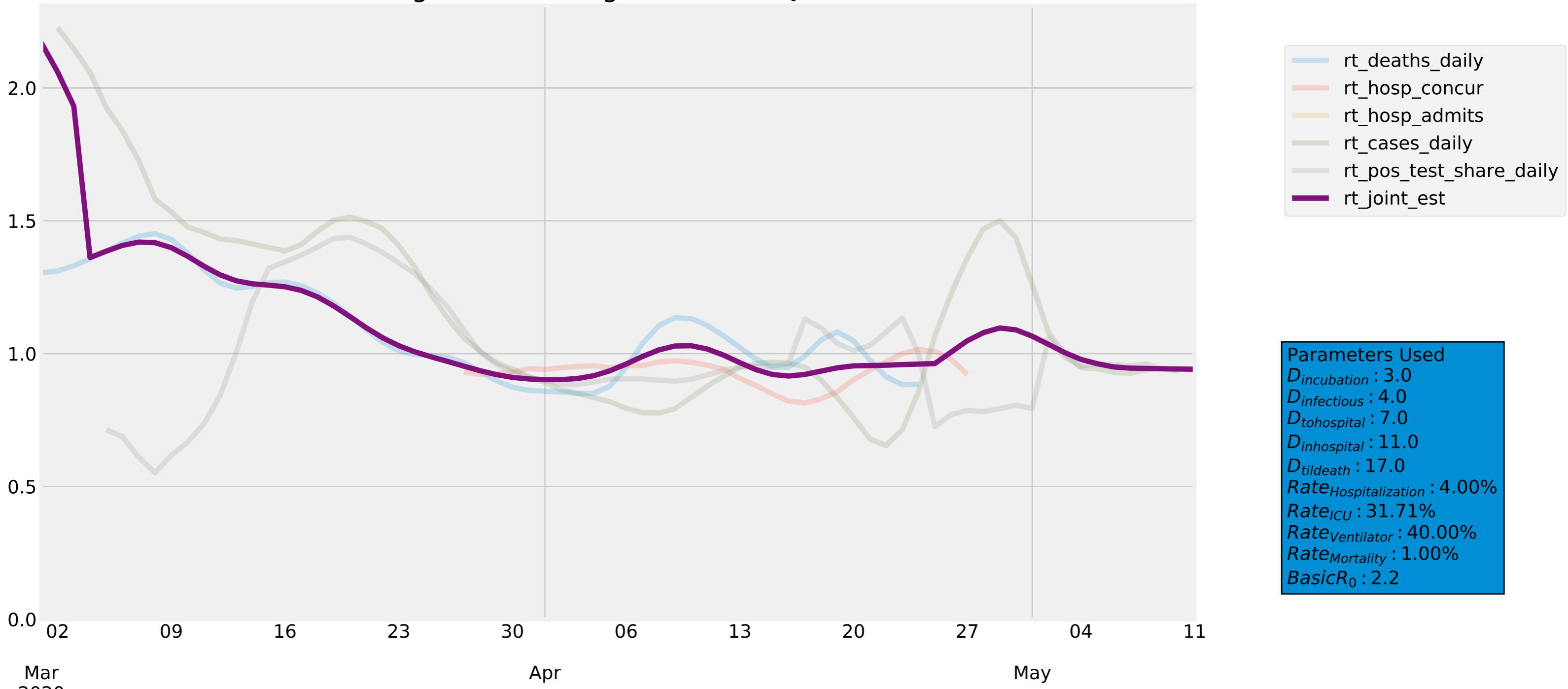
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Washington: COVID-19 Cases Per 100k Residents



Reproduction Rate (R_t) Estimates

Washington: 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%
Basic R_0 :	2.2

Mar
2020

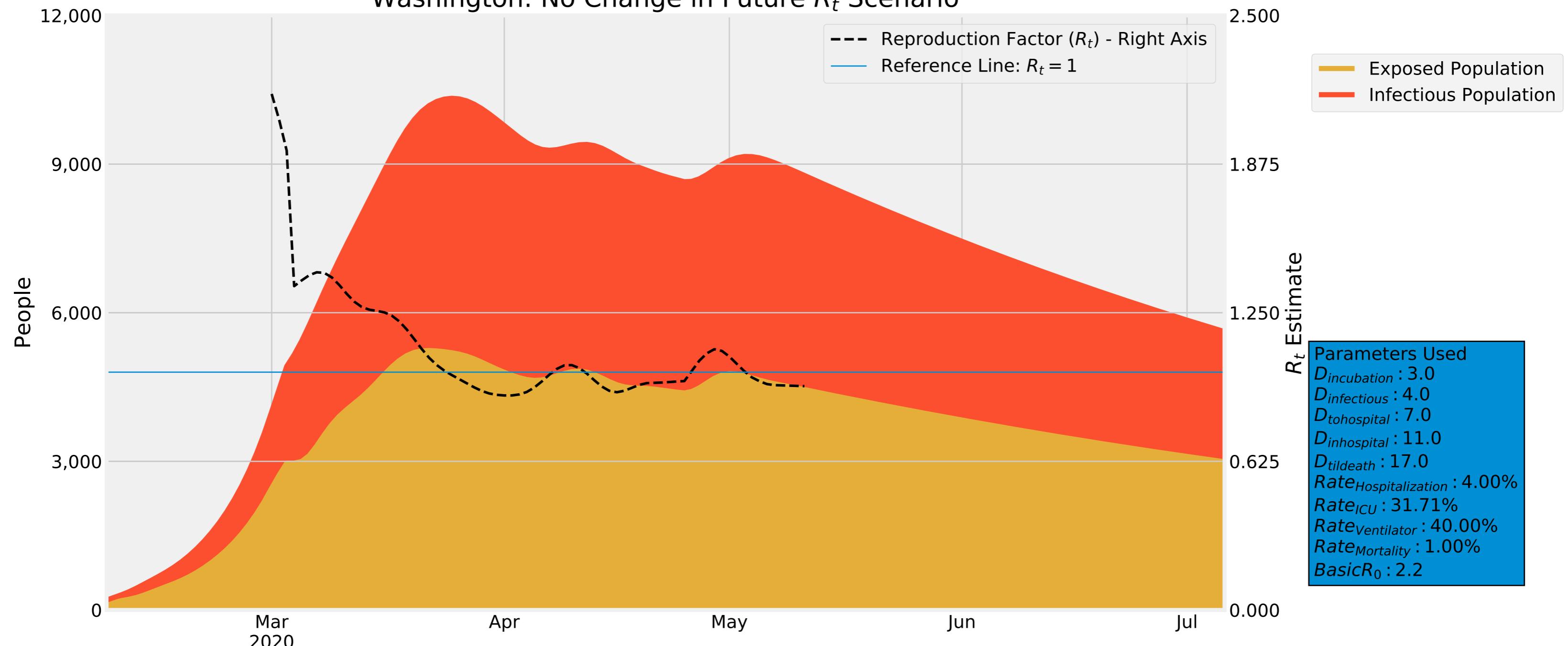
Apr

May

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

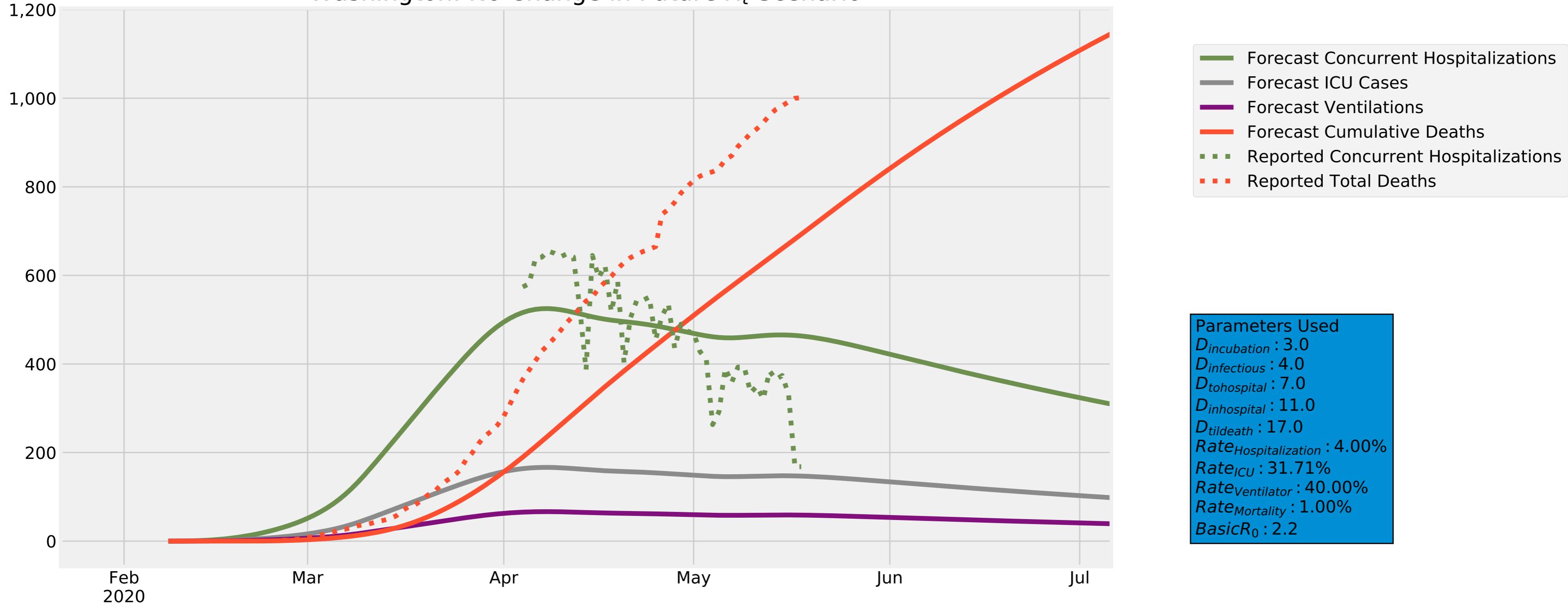
Simultaneous Infections Forecast

Washington: No Change in Future R_t Scenario



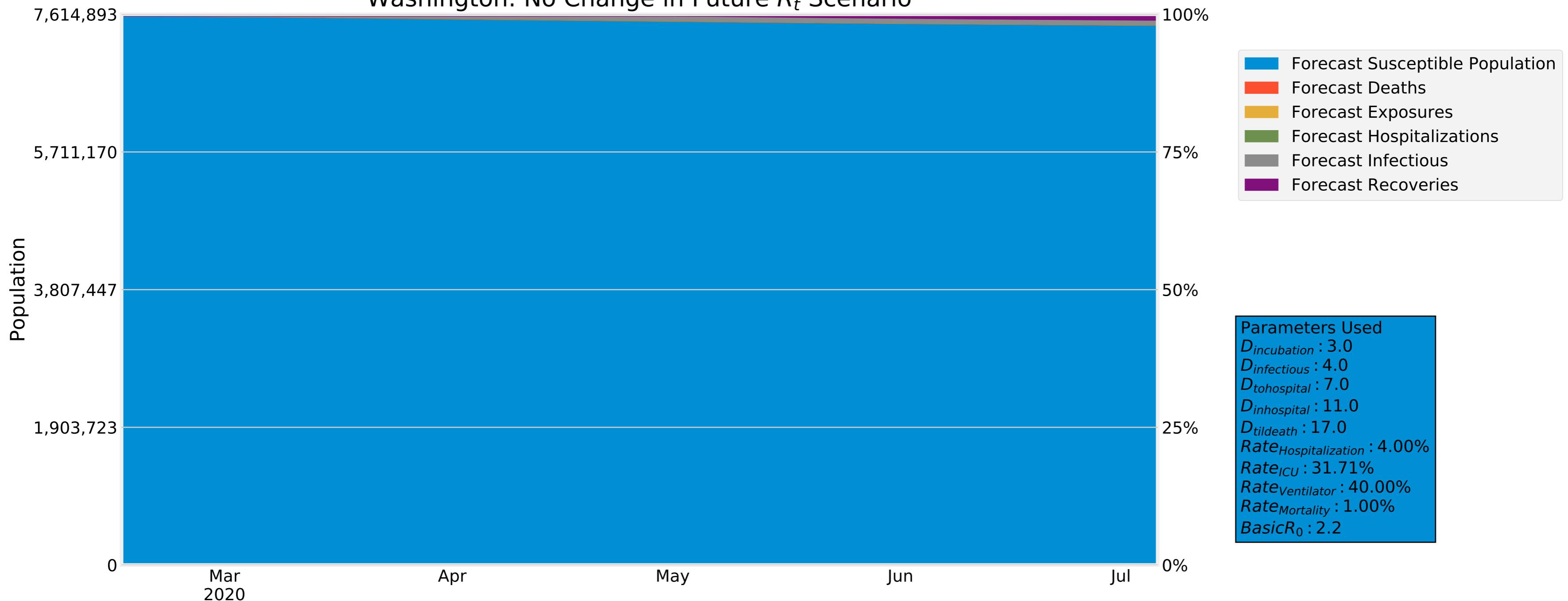
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

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

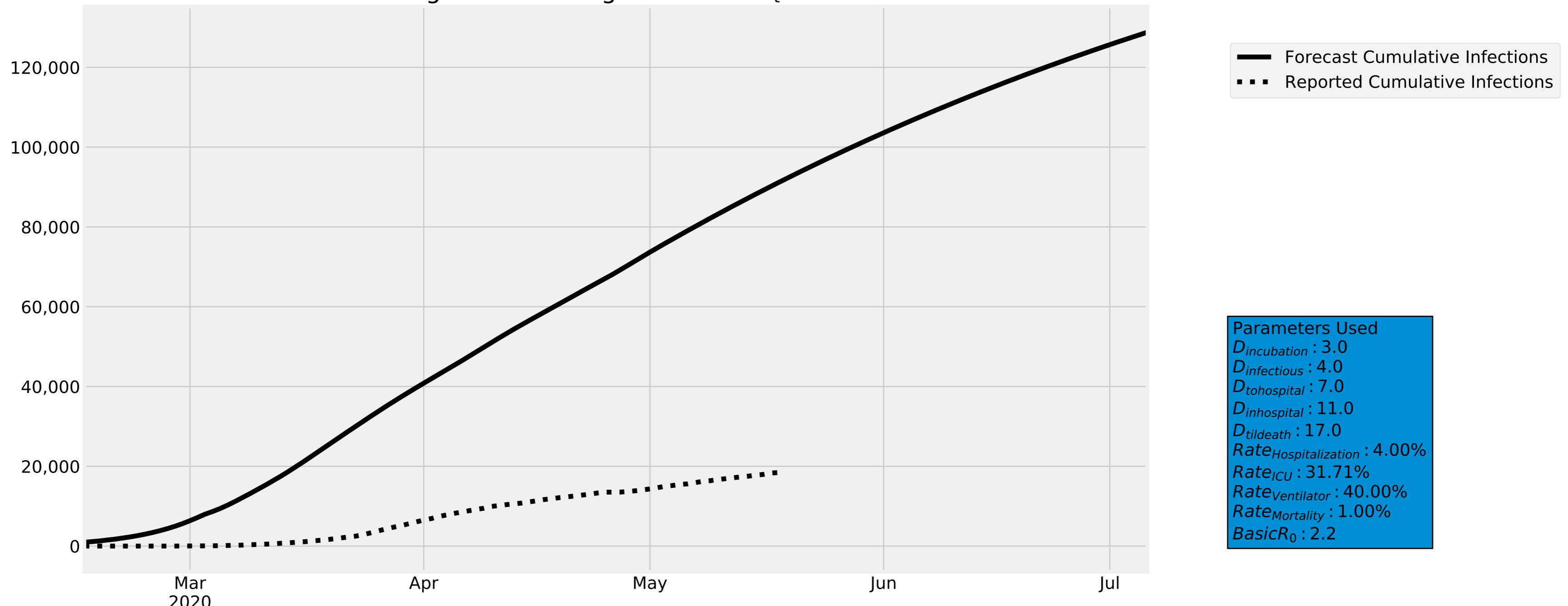


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast Washington: No Change in Future R_t Scenario



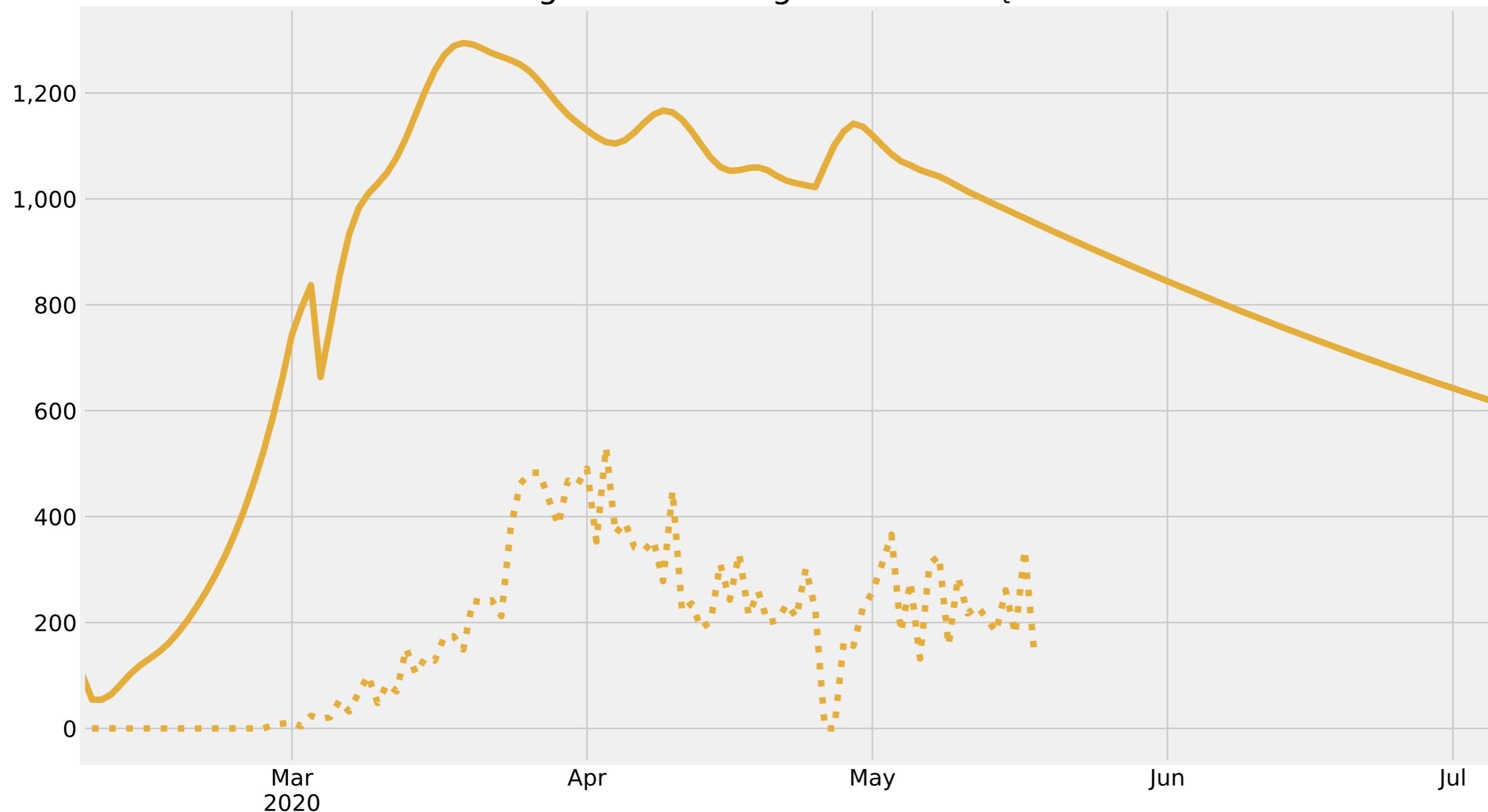
Cumulative Infections Forecast Washington: No Change in Future R_t Scenario



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%
- $BasicR_0$: 2.2

Daily Exposures Forecast Washington: 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%
 $BasicR_0$: 2.2

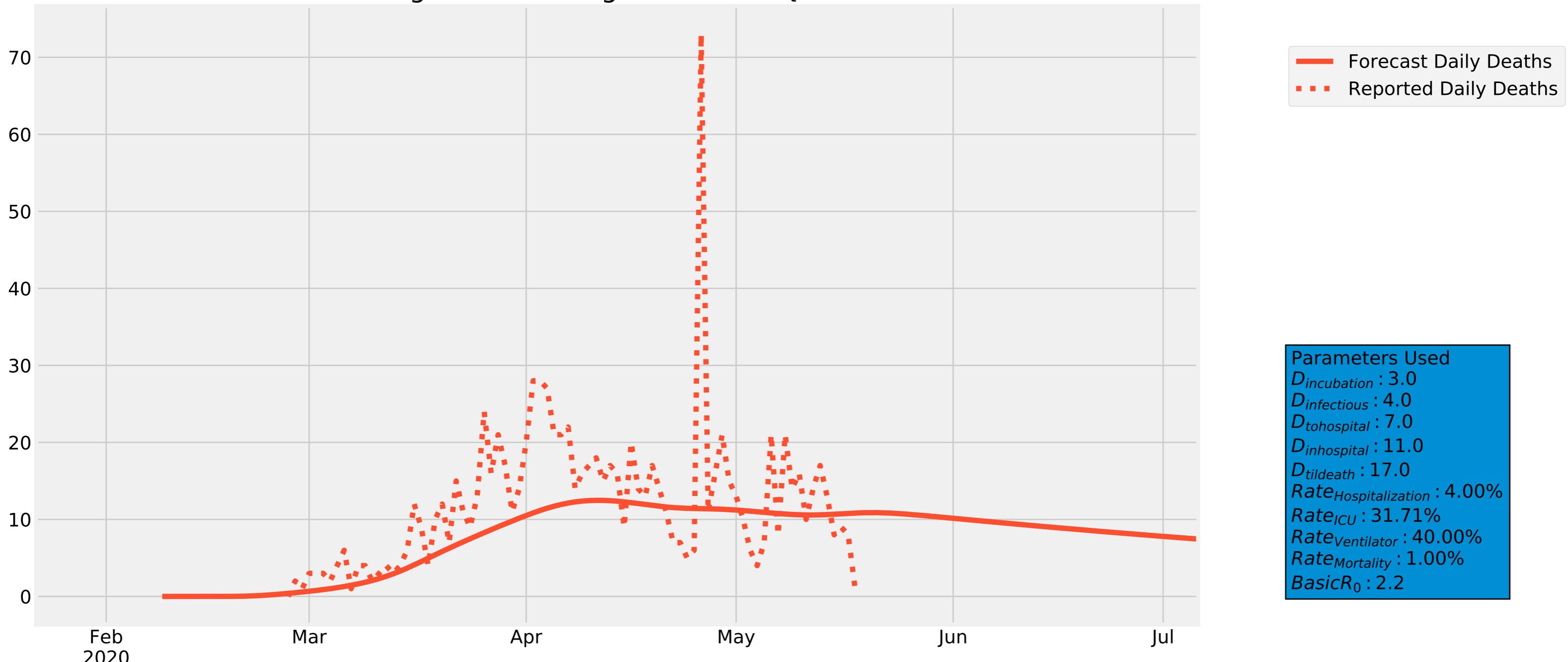
Daily Hospital Admissions Forecast Washington: No Change in Future R_t Scenario



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%
 $BasicR_0$: 2.2

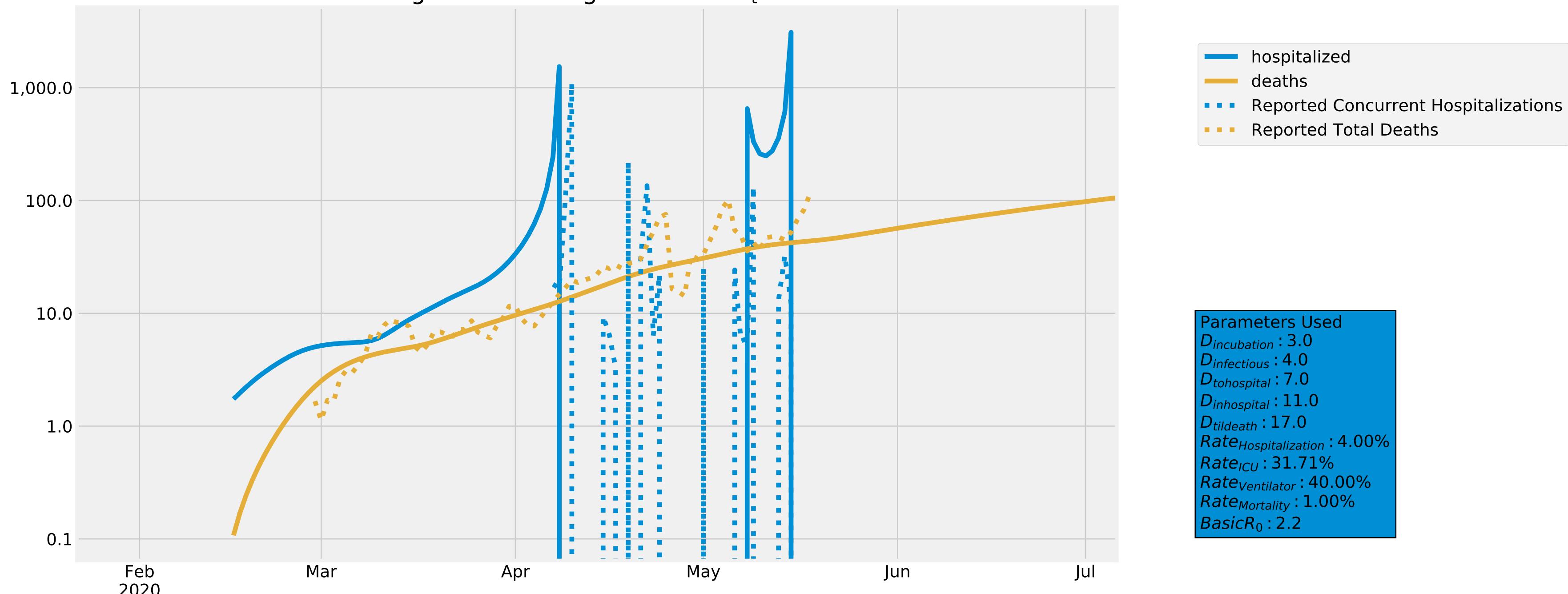
Daily Deaths Forecast Washington: No Change in Future R_t Scenario



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

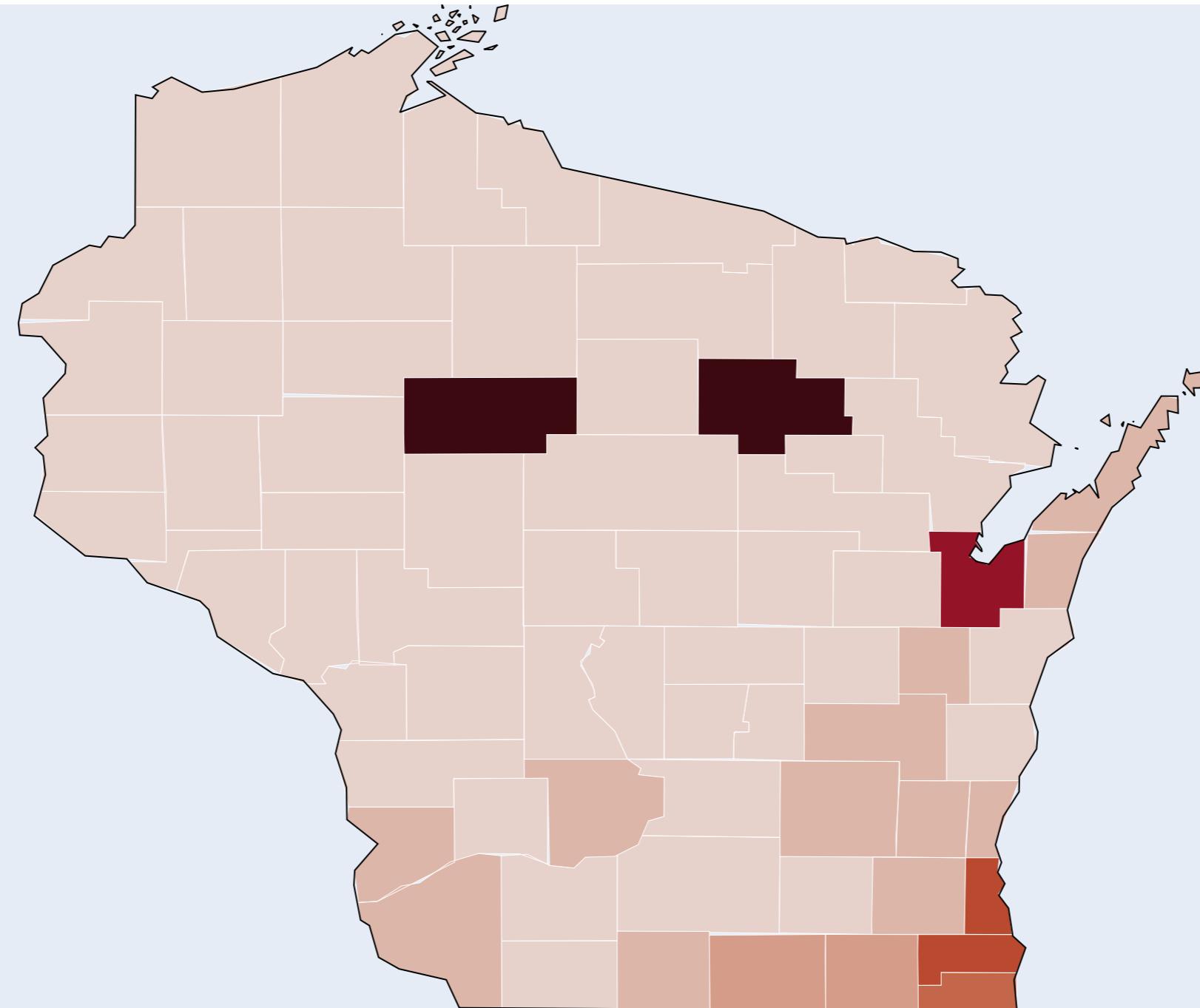
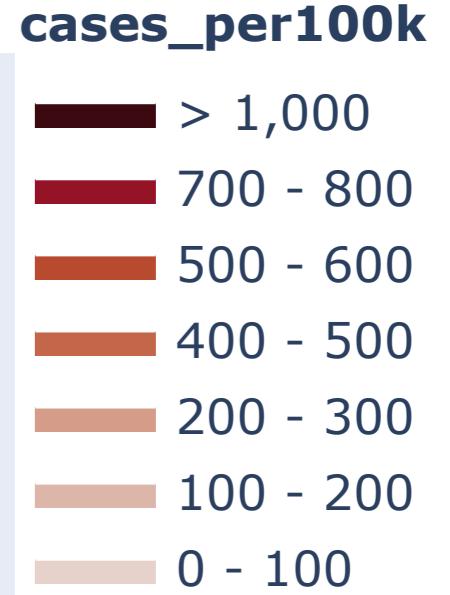
Doubling Rate Forecast

Washington: No Change in Future R_t Scenario

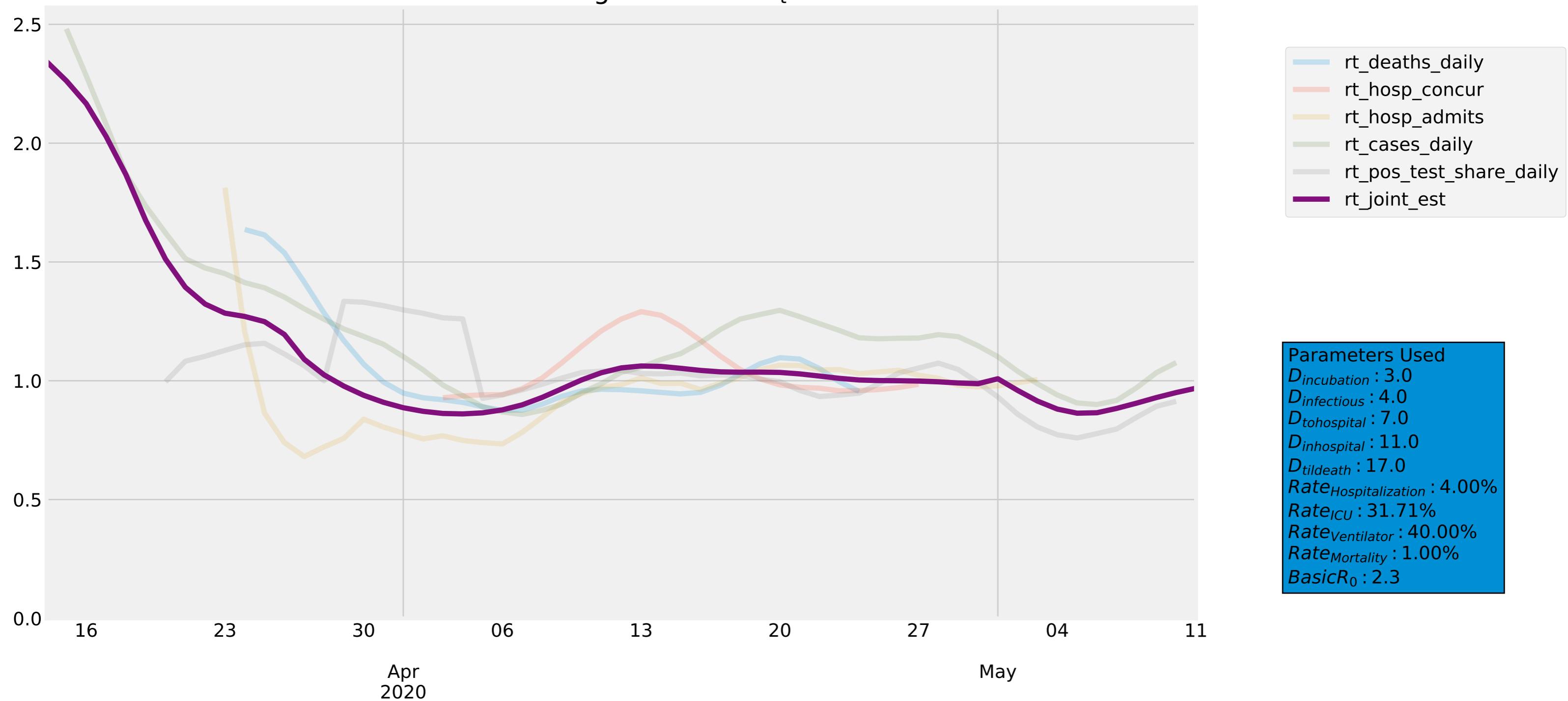


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Wisconsin: COVID-19 Cases Per 100k Residents



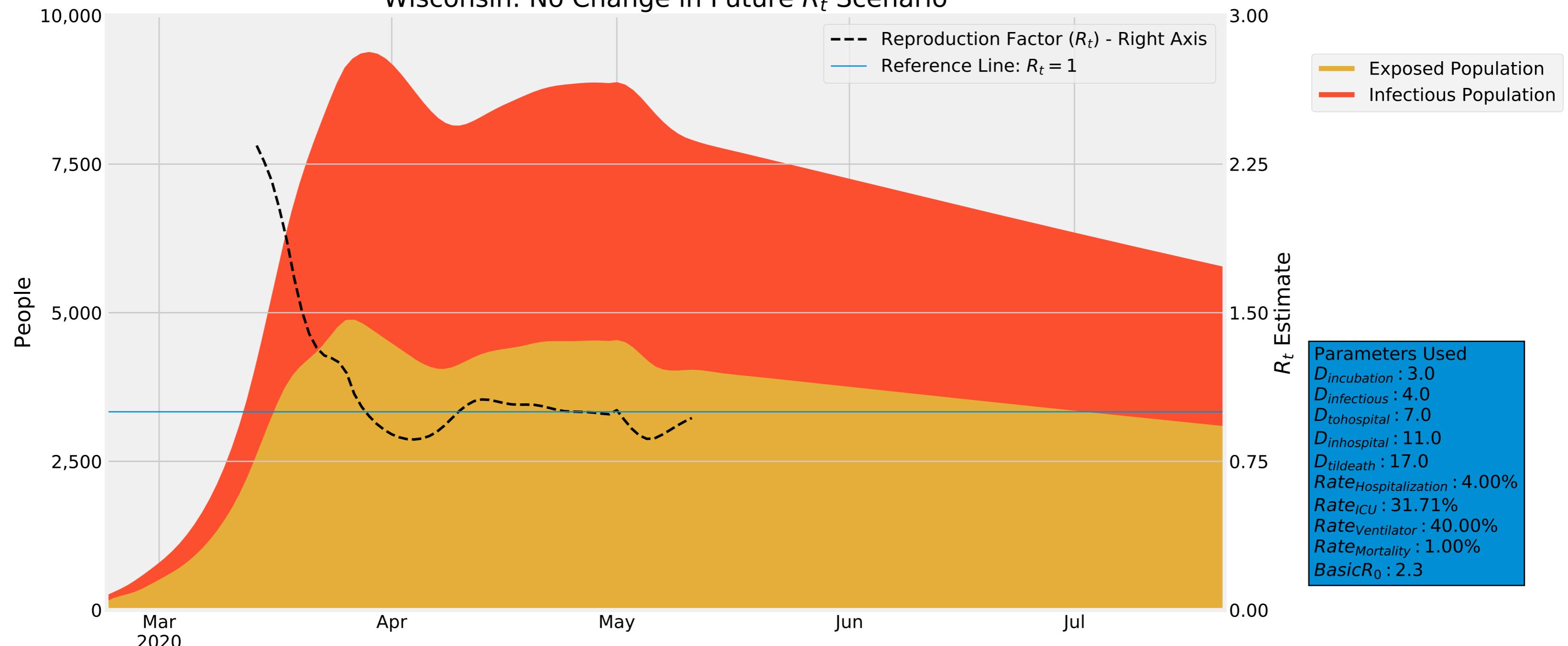
Reproduction Rate (R_t) Estimates Wisconsin: No Change in Future R_t Scenario



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

Simultaneous Infections Forecast

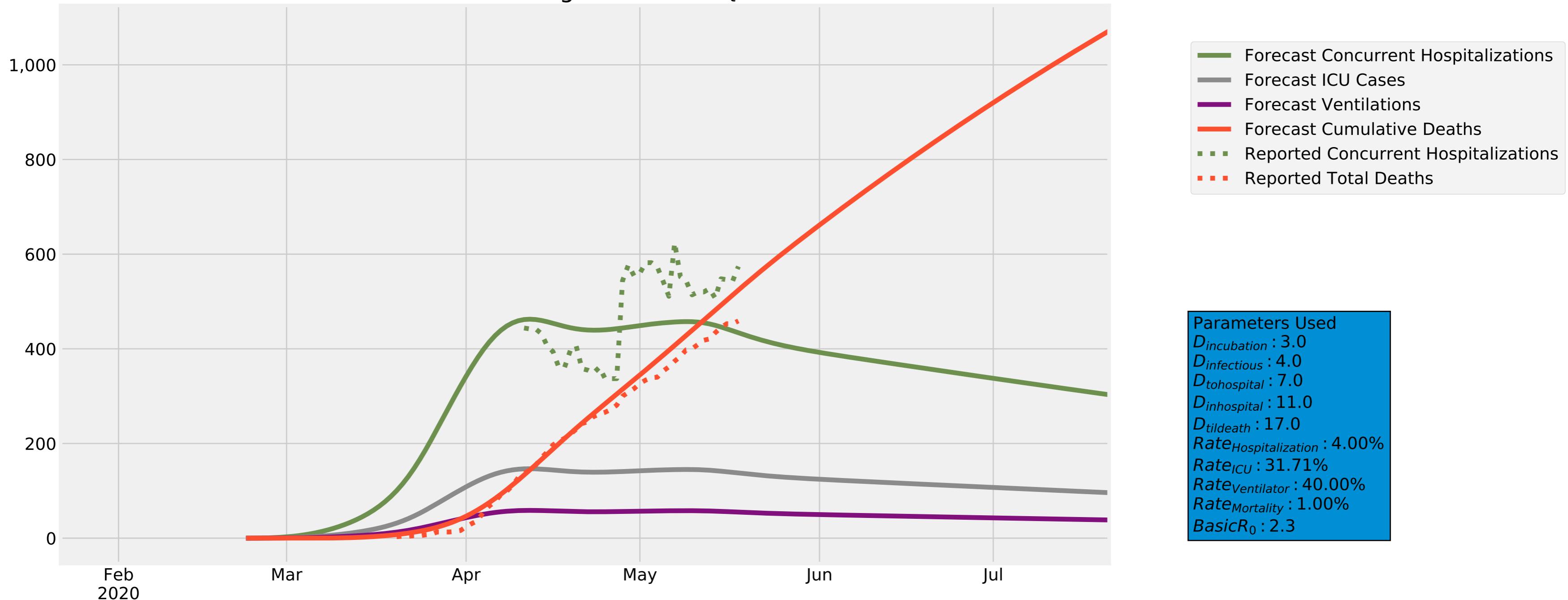
Wisconsin: No Change in Future R_t Scenario



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

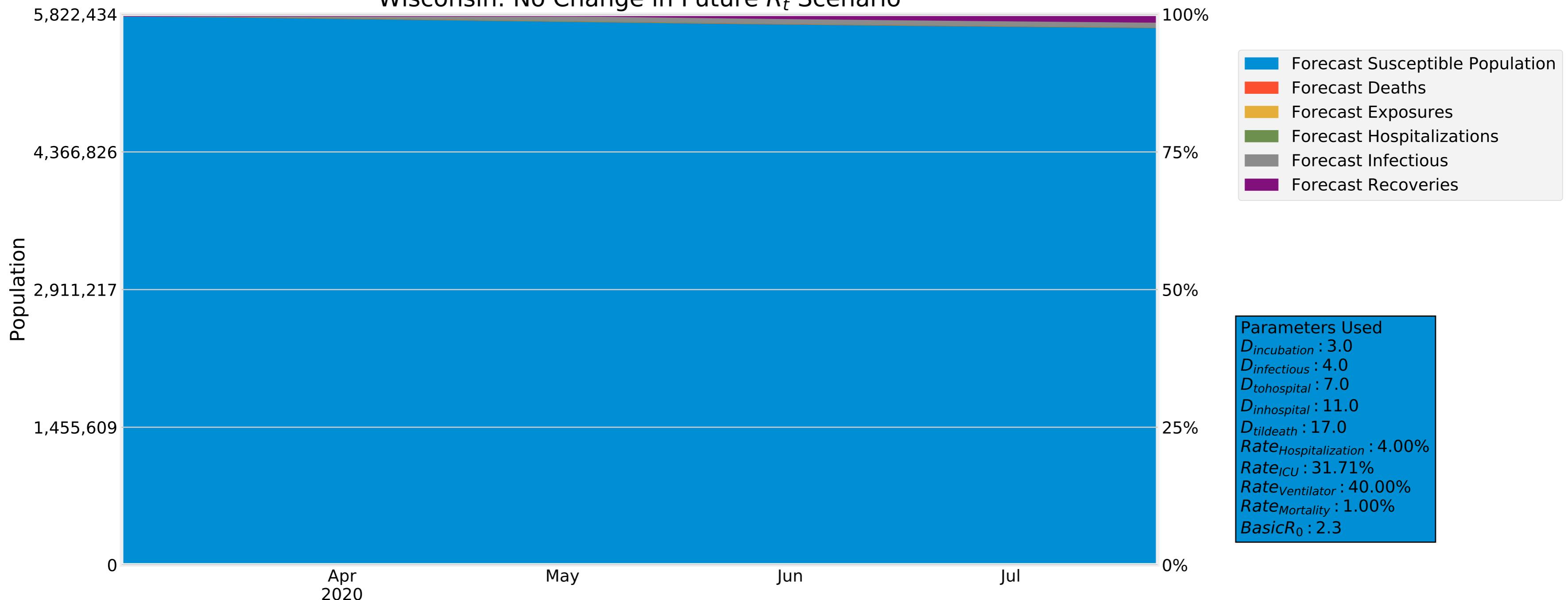
Hospitalization and Deaths Forecast

Wisconsin: No Change in Future R_t Scenario

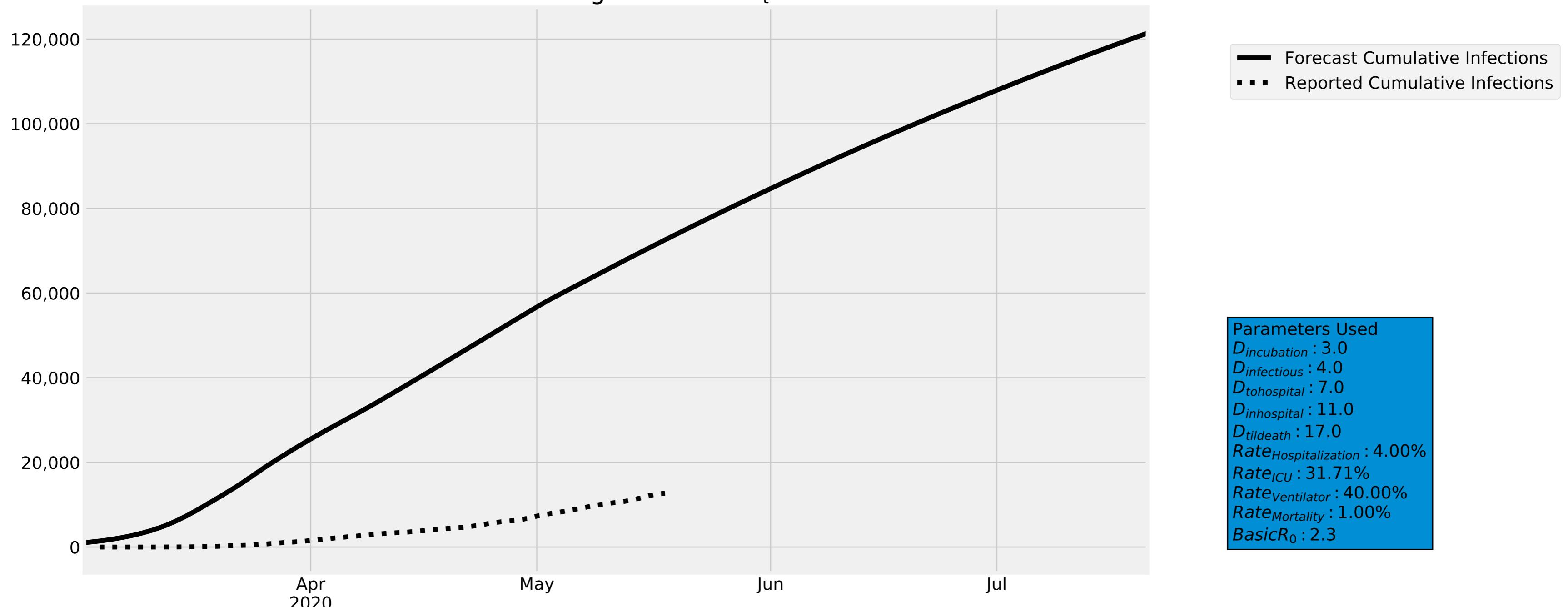


Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast Wisconsin: No Change in Future R_t Scenario



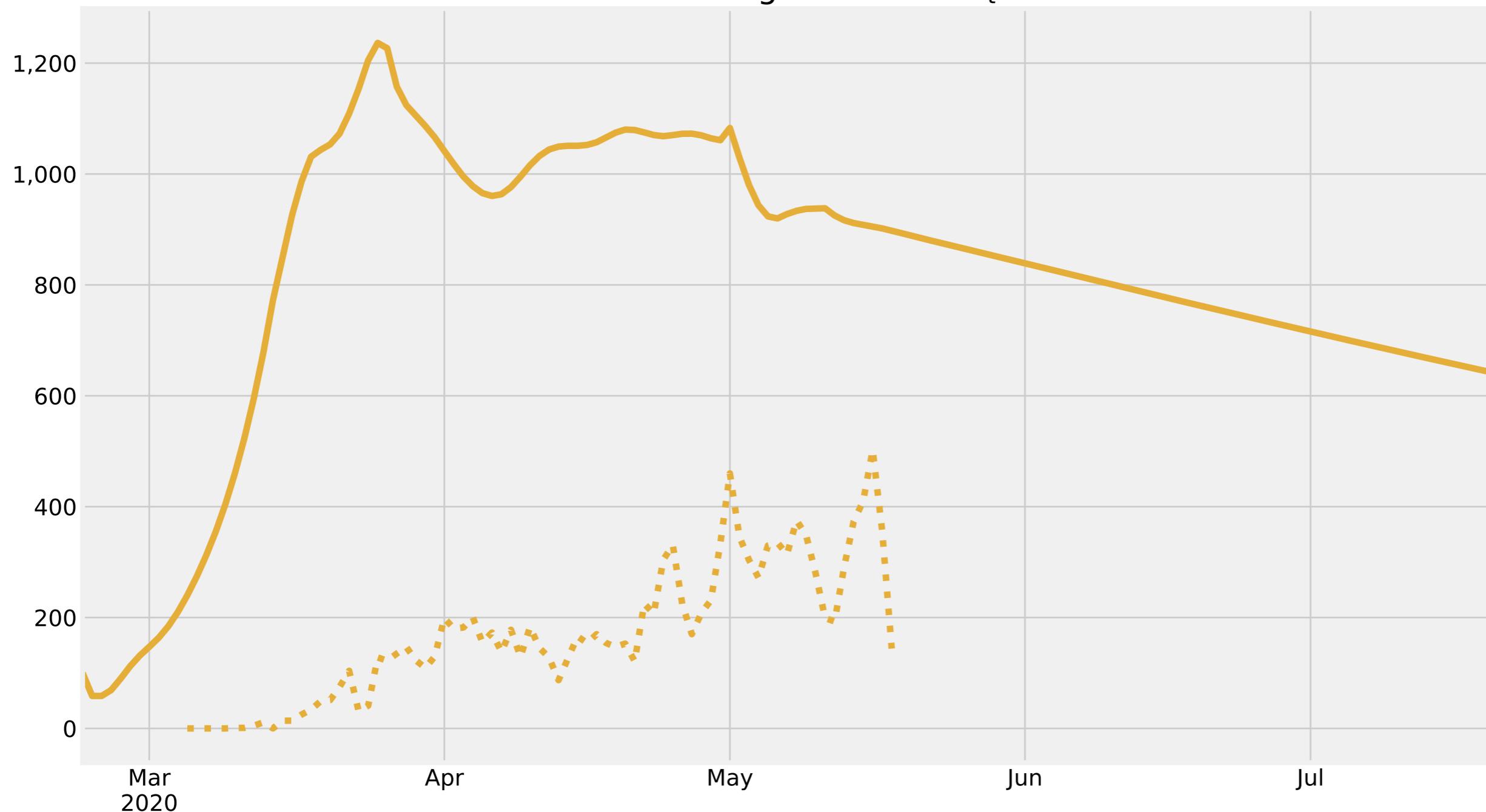
Cumulative Infections Forecast Wisconsin: No Change in Future R_t Scenario



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%
- $BasicR_0$: 2.3

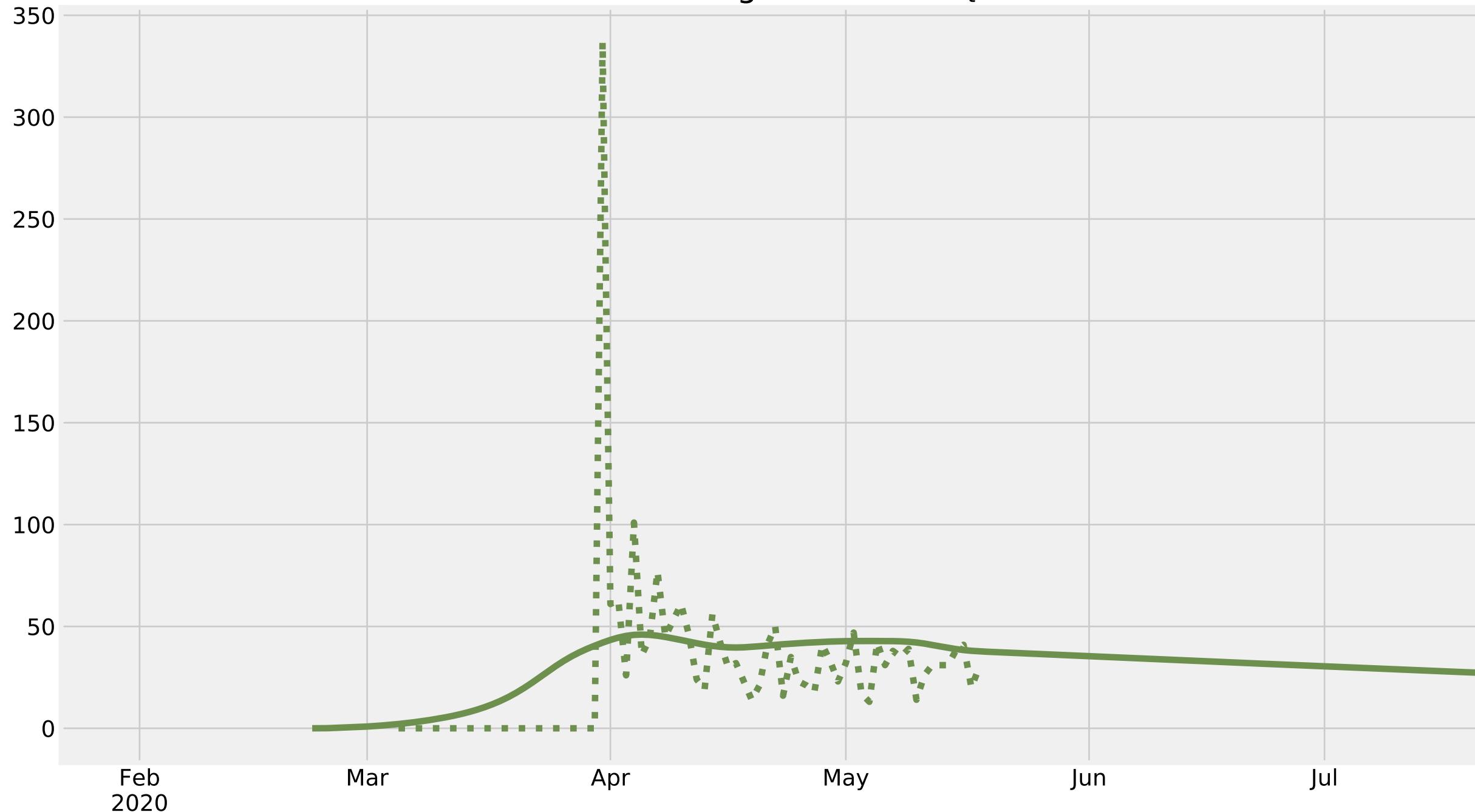
Daily Exposures Forecast Wisconsin: No Change in Future R_t Scenario



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%
Basic R_0 :	2.3

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

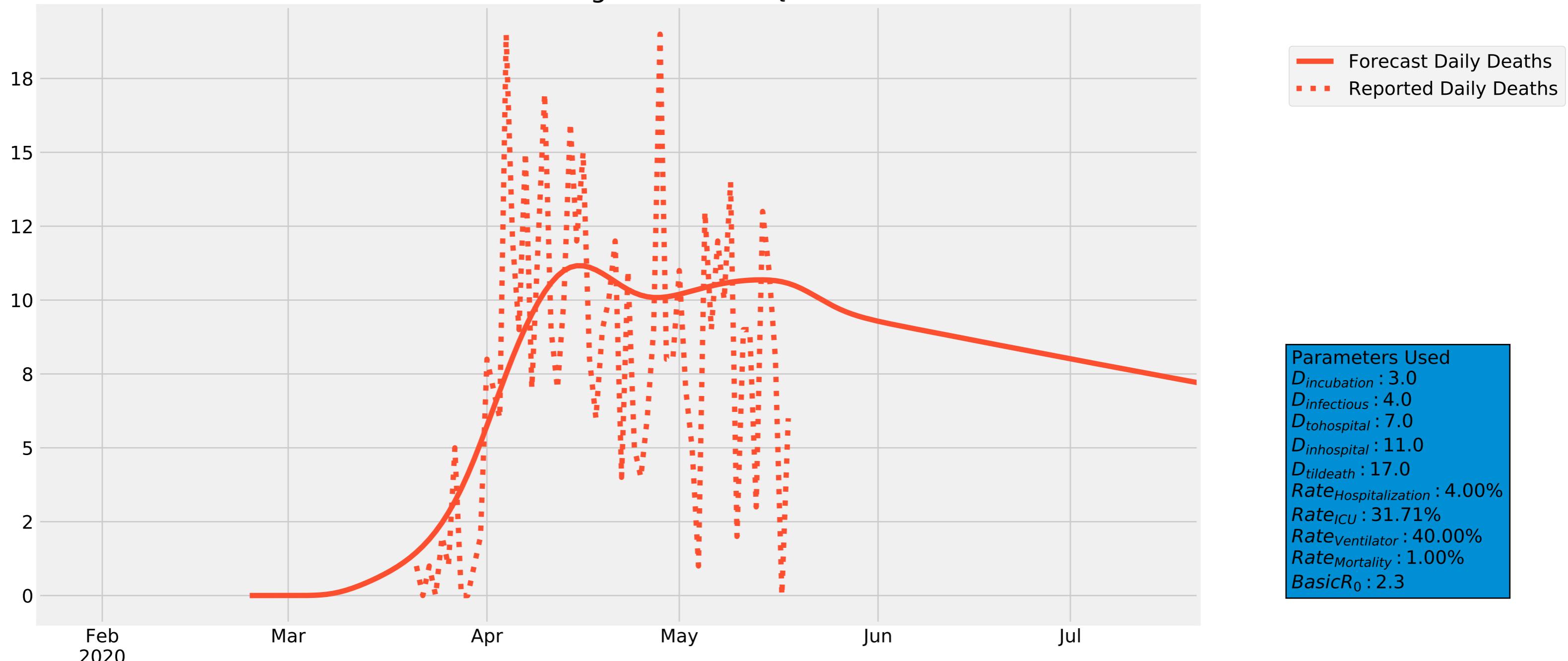


Parameters Used	
$D_{incubation}$: 3.0
$D_{infectious}$: 4.0
$D_{tohospital}$: 7.0
$D_{inhospital}$: 11.0
$D_{tildeath}$: 17.0
Rate _{Hospitalization}	: 4.00%
Rate _{ICU}	: 31.71%
Rate _{Ventilator}	: 40.00%
Rate _{Mortality}	: 1.00%
Basic R_0	: 2.3

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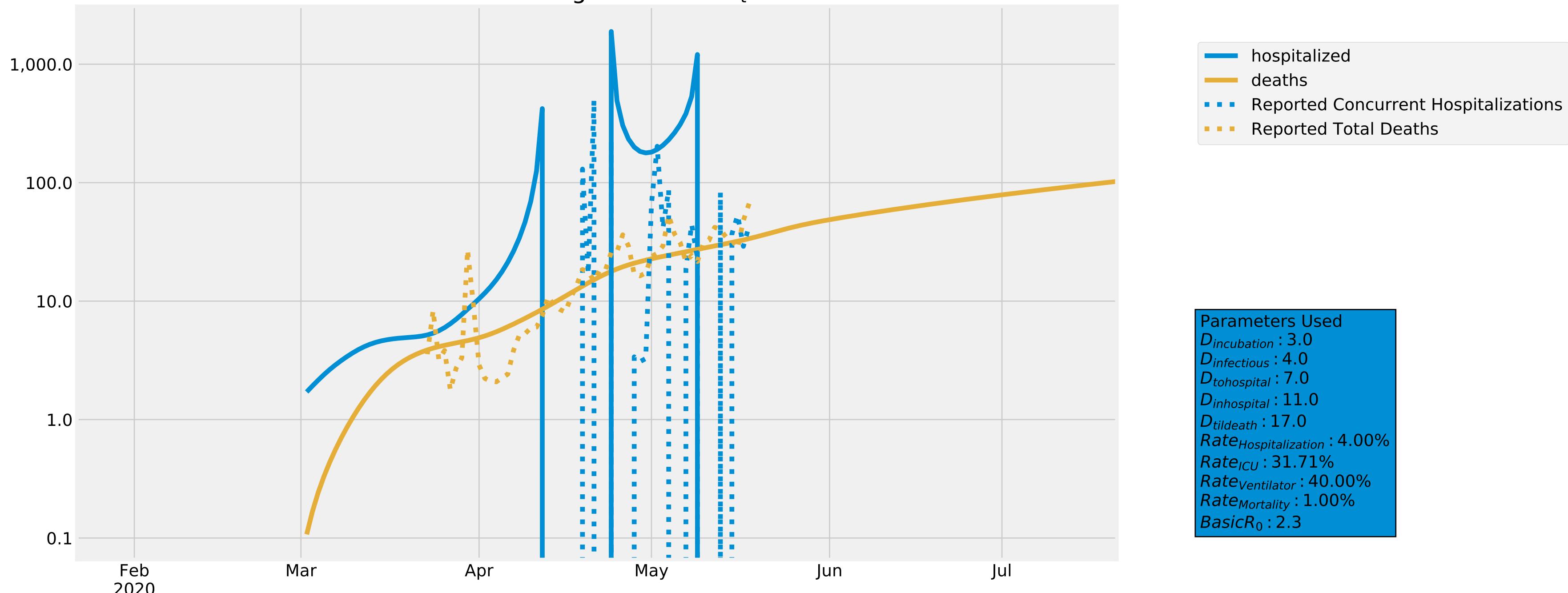
Daily Deaths Forecast

Wisconsin: No Change in Future R_t Scenario



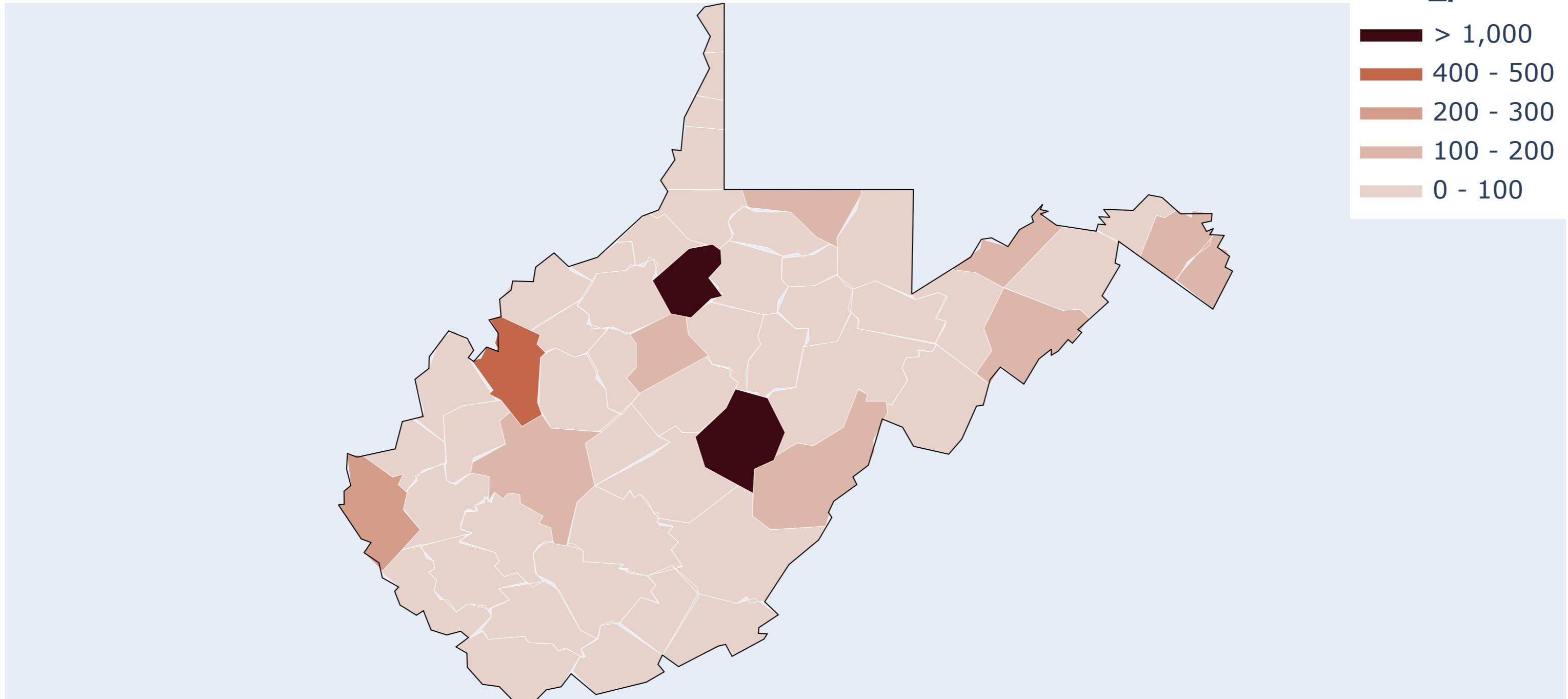
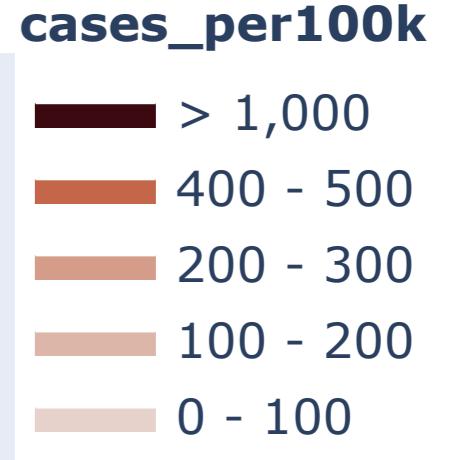
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Wisconsin: No Change in Future R_t Scenario



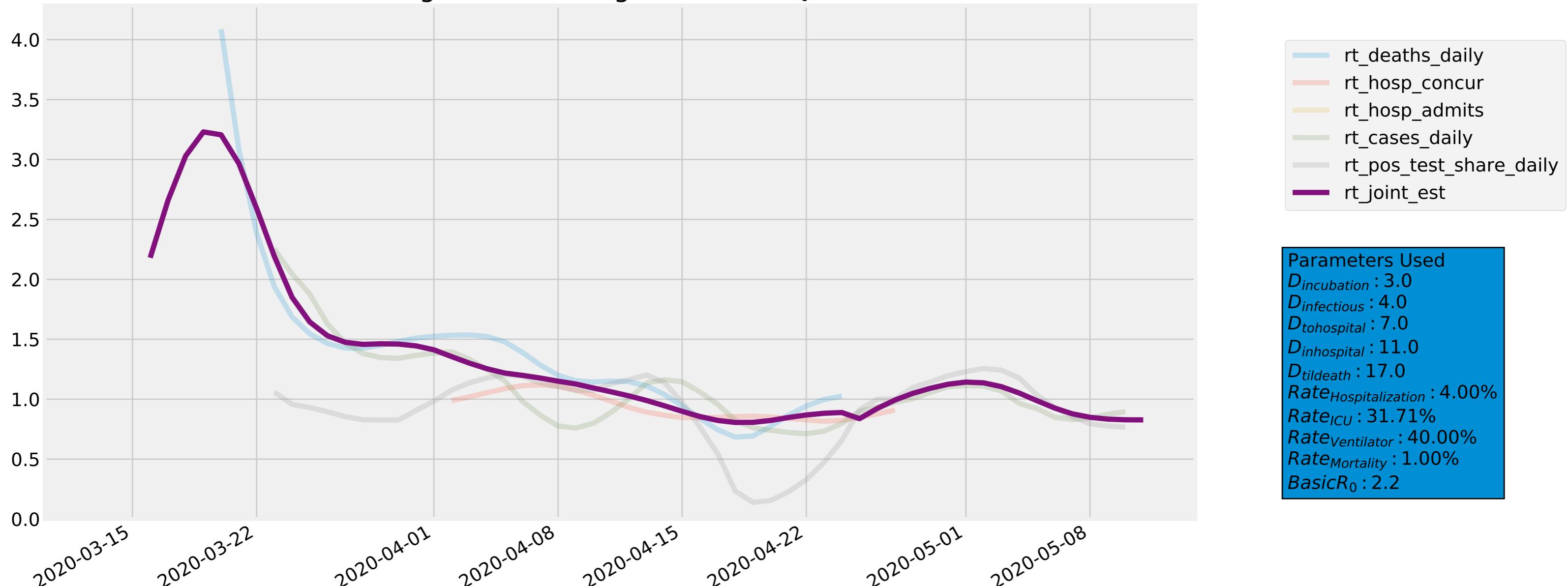
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

West Virginia: COVID-19 Cases Per 100k Residents



Reproduction Rate (R_t) Estimates

West Virginia: No Change in Future R_t Scenario



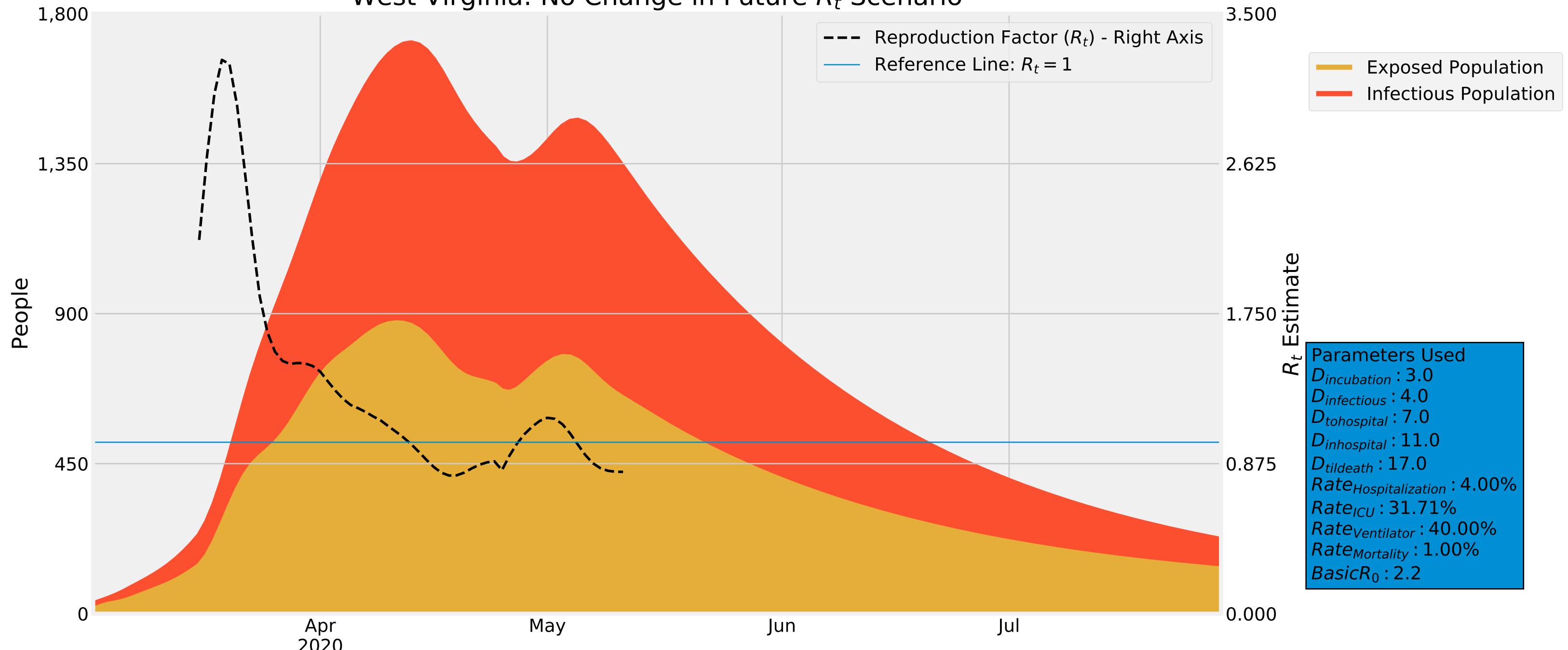
Parameters Used

$D_{incubation}$: 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%
 $BasicR_0$: 2.2

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

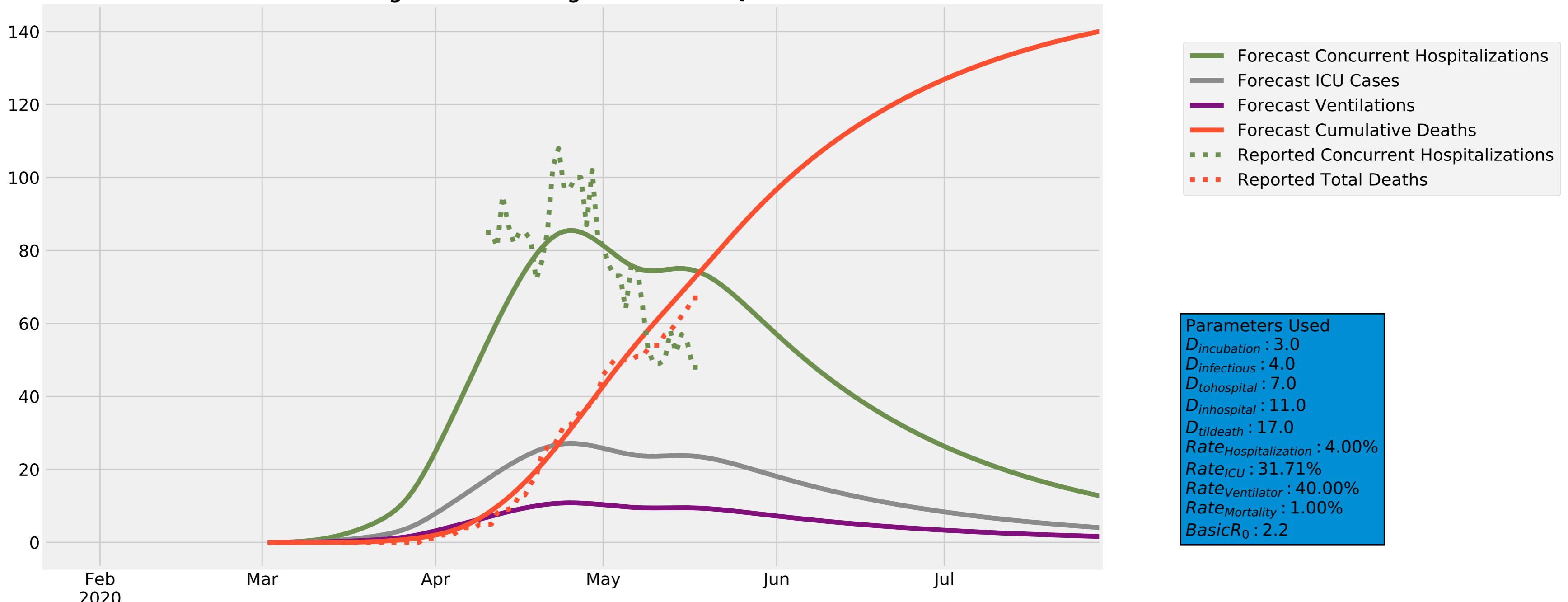
Simultaneous Infections Forecast

West Virginia: No Change in Future R_t Scenario



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

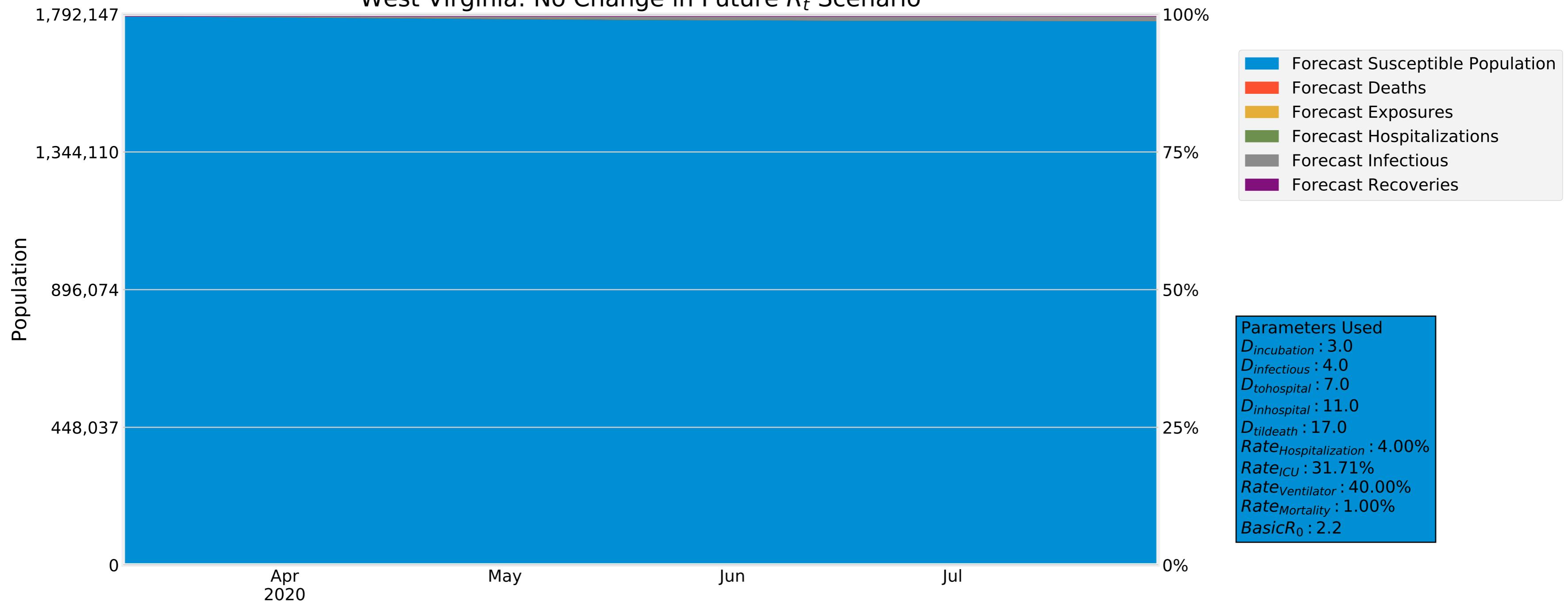
Hospitalization and Deaths Forecast West Virginia: No Change in Future R_t Scenario



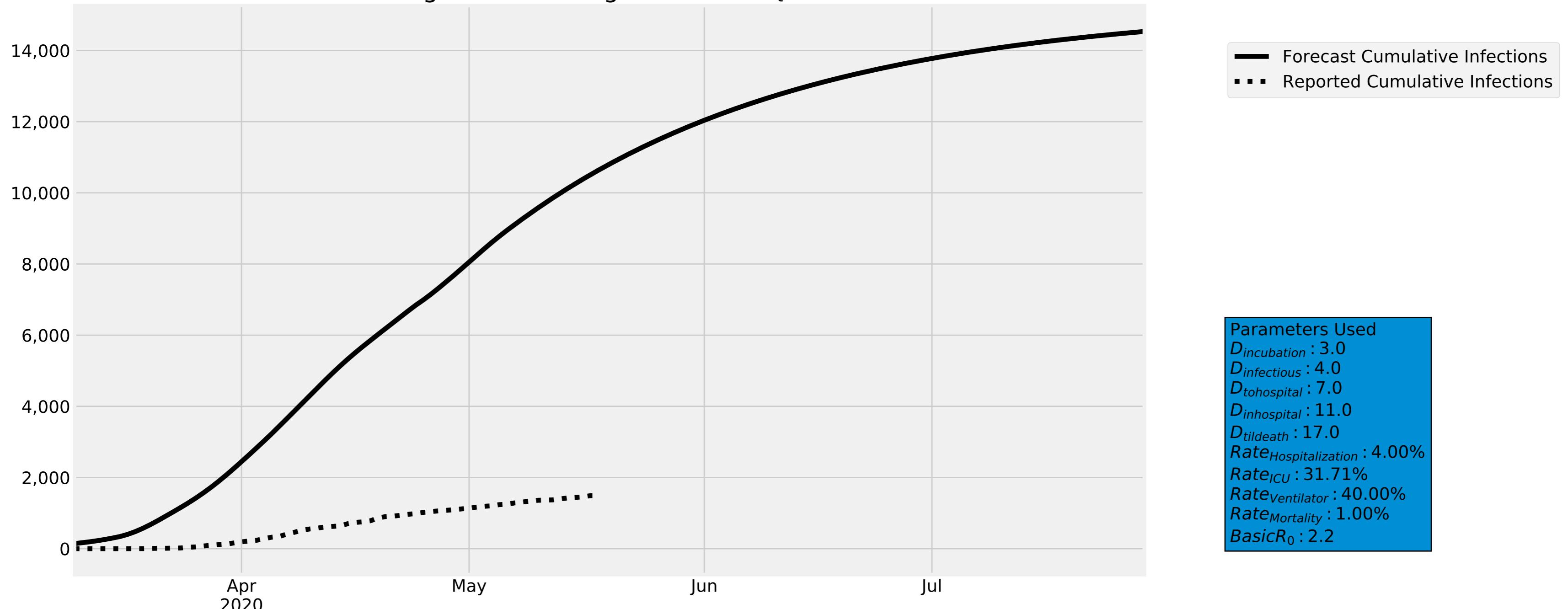
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

West Virginia: No Change in Future R_t Scenario



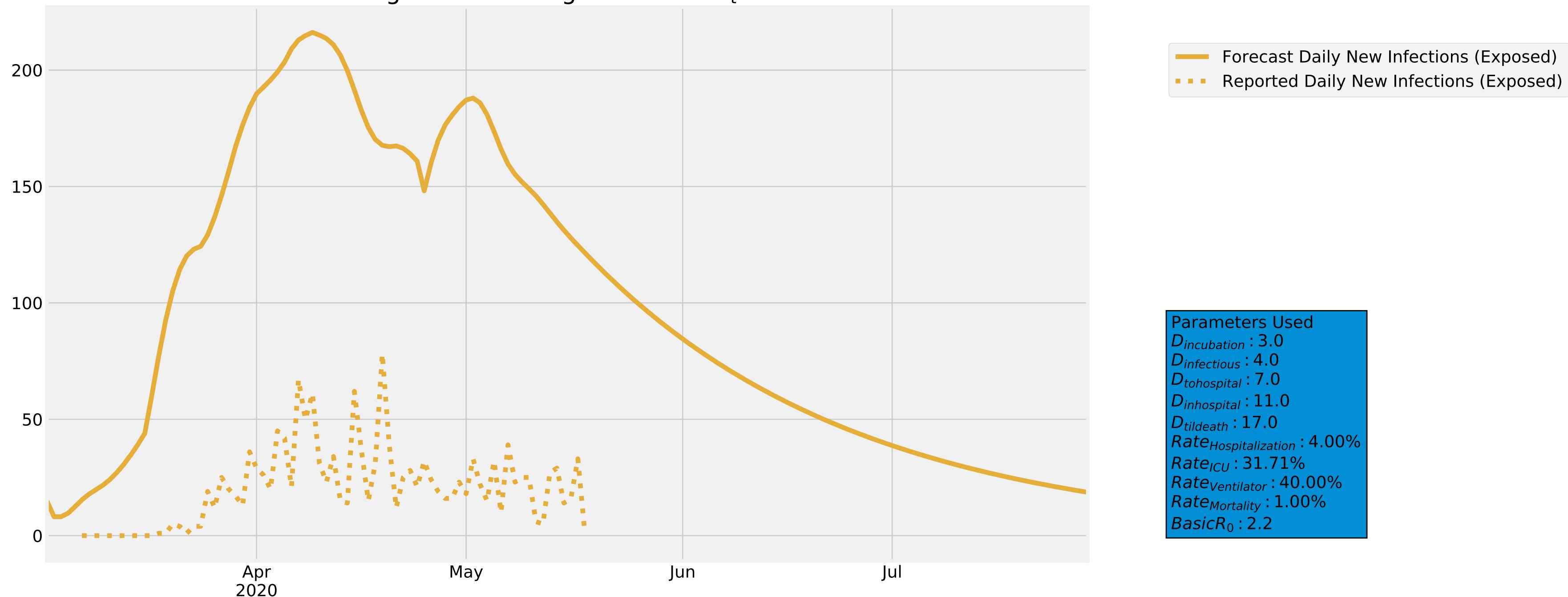
Cumulative Infections Forecast West Virginia: No Change in Future R_t Scenario



Parameters Used

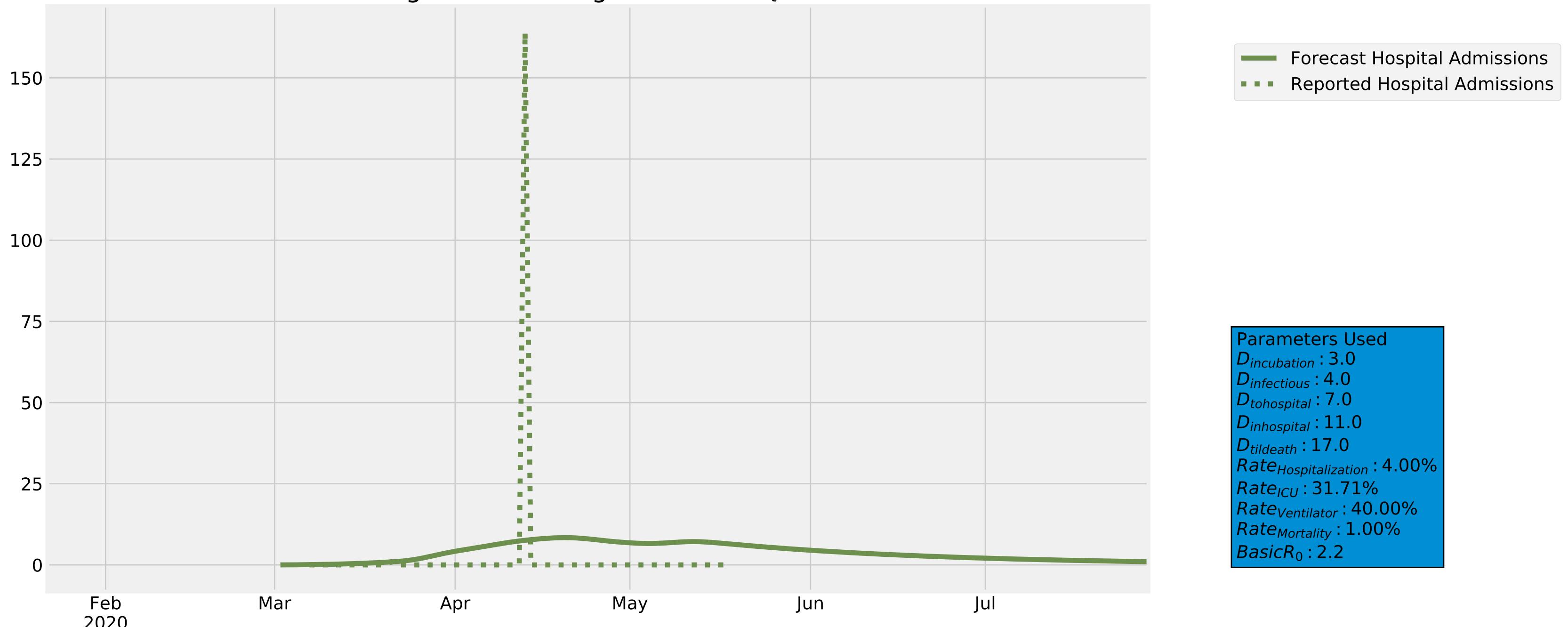
- $D_{incubation}$: 3.0
- $D_{infectious}$: 4.0
- $D_{tohospital}$: 7.0
- $D_{inhospital}$: 11.0
- $D_{tildeath}$: 17.0
- $Rate_{Hospitalization}$: 4.00%
- $Rate_{ICU}$: 31.71%
- $Rate_{Ventilator}$: 40.00%
- $Rate_{Mortality}$: 1.00%
- $BasicR_0$: 2.2

Daily Exposures Forecast West Virginia: No Change in Future R_t Scenario



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

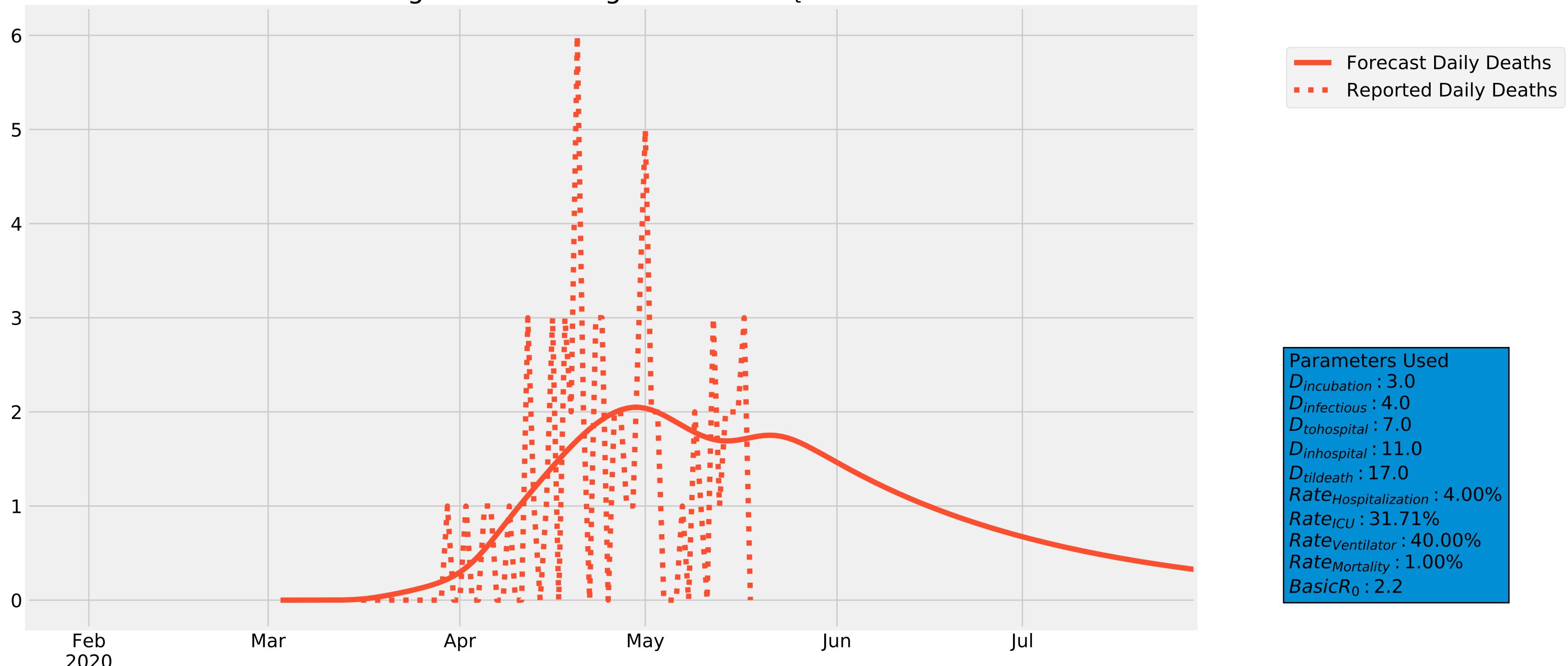
Daily Hospital Admissions Forecast West Virginia: No Change in Future R_t Scenario



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%
- $BasicR_0$: 2.2

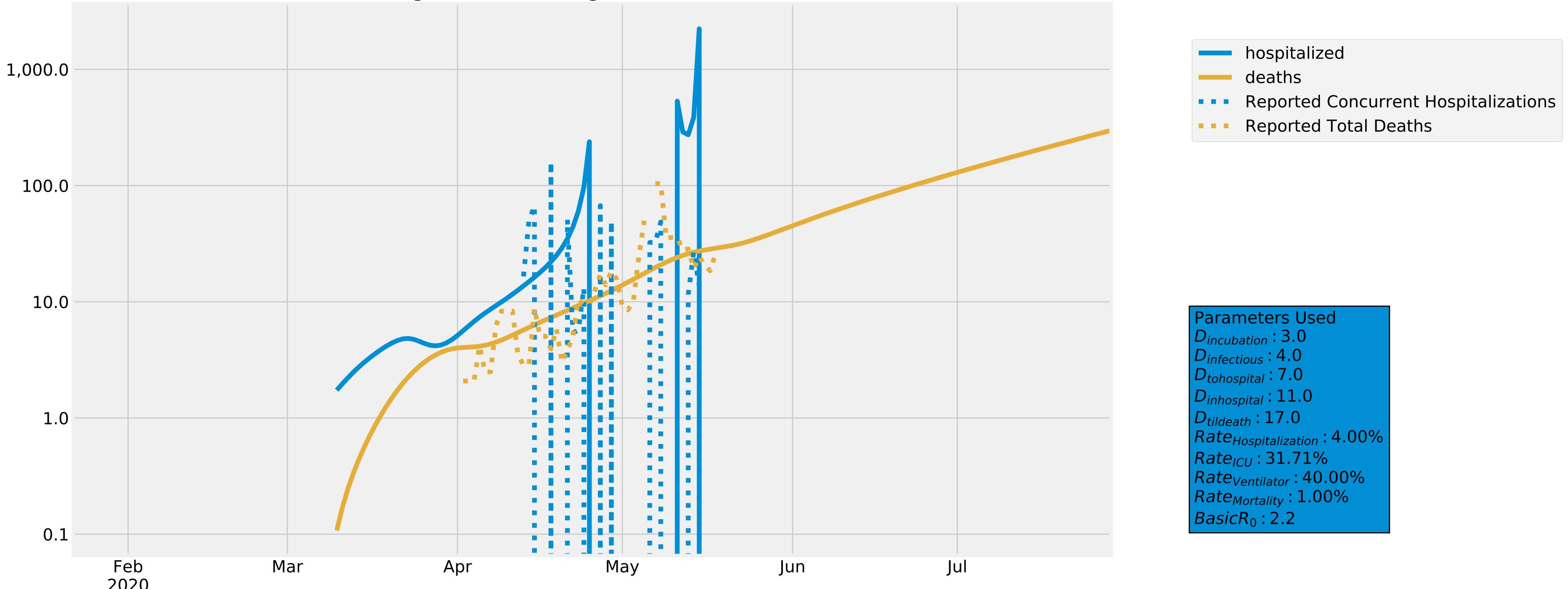
Daily Deaths Forecast West Virginia: No Change in Future R_t Scenario



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

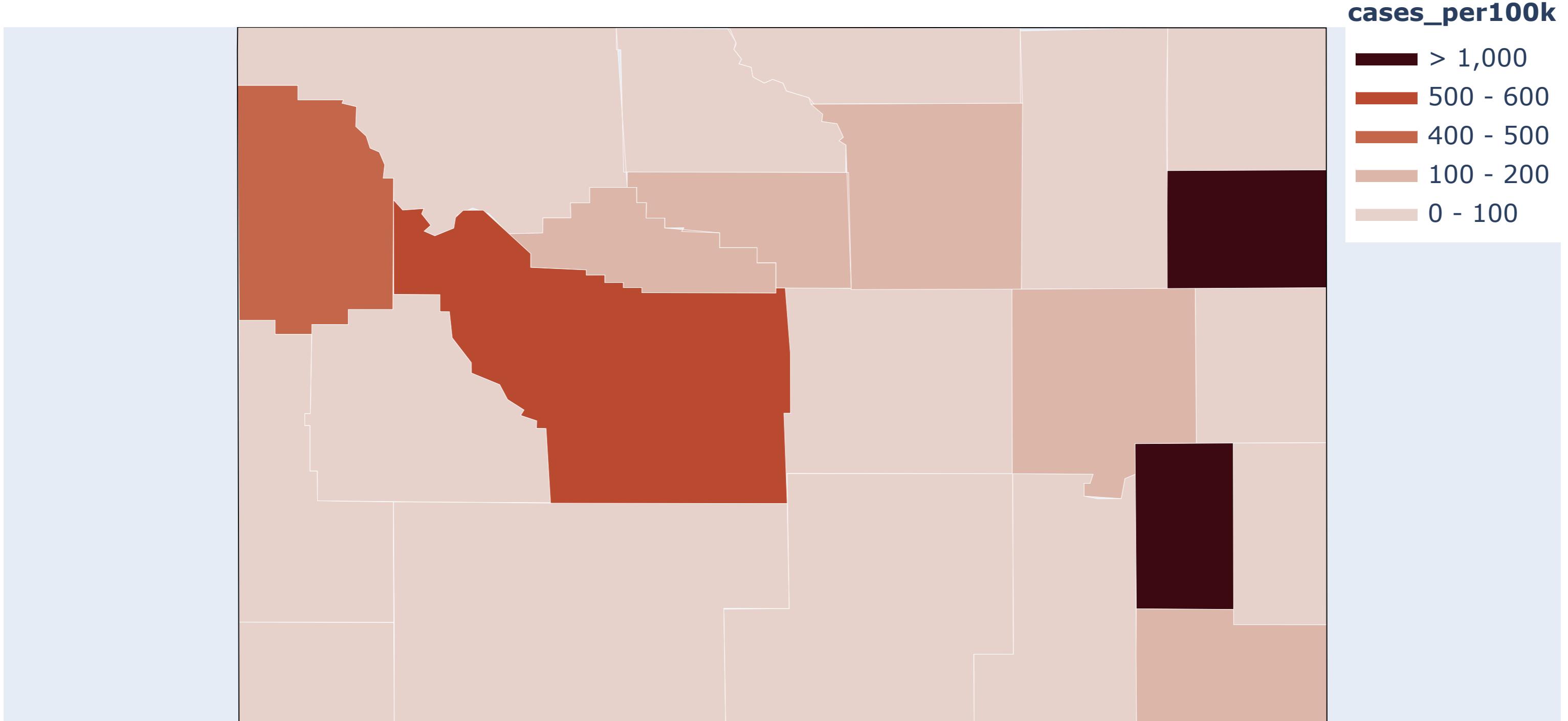
Doubling Rate Forecast

West Virginia: No Change in Future R_t Scenario



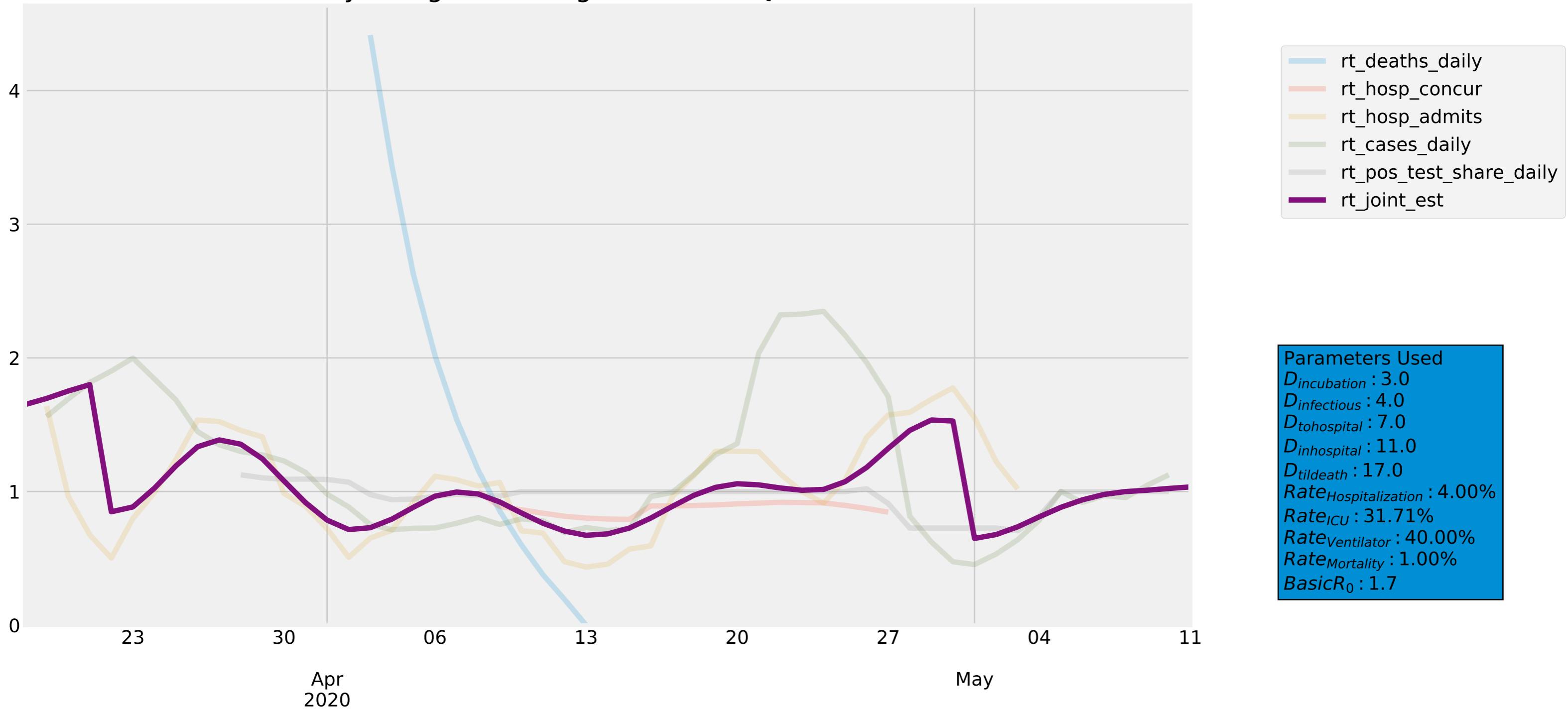
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Wyoming: COVID-19 Cases Per 100k Residents



Reproduction Rate (R_t) Estimates

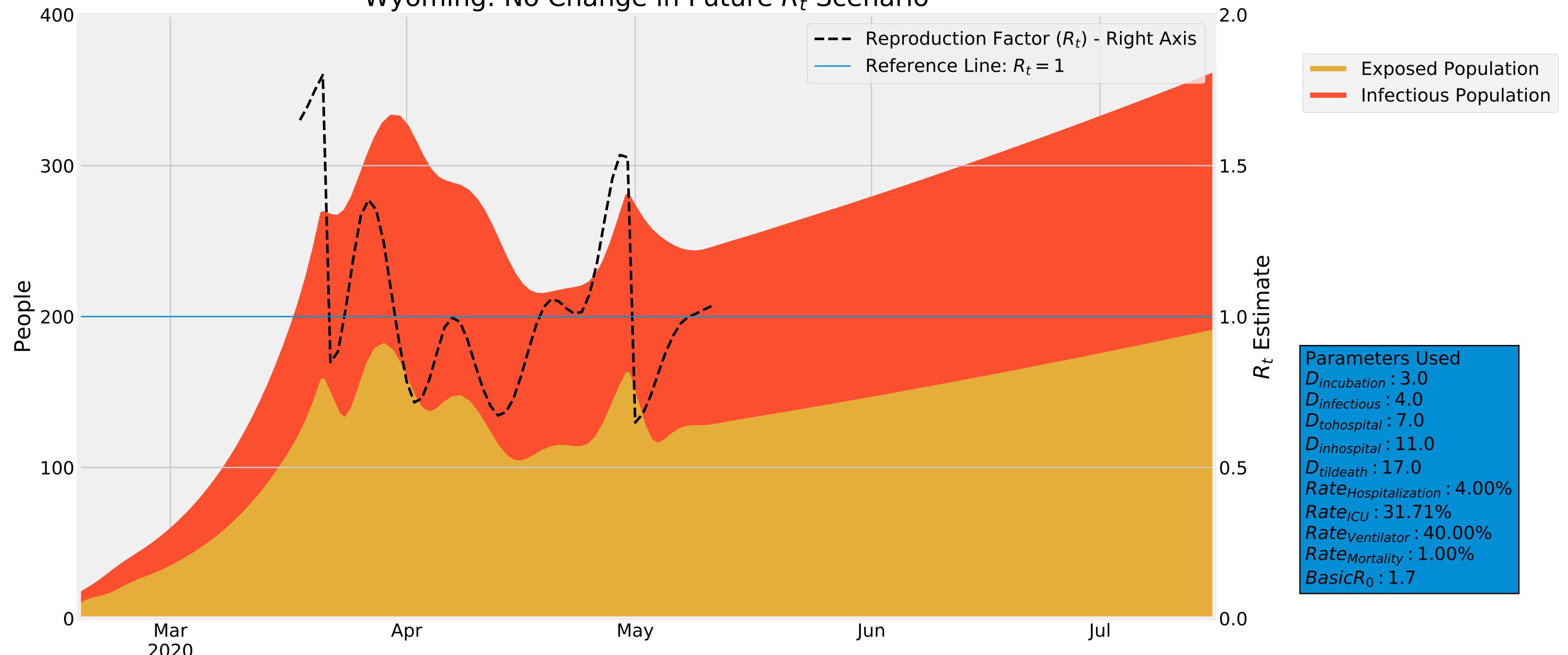
Wyoming: No Change in Future R_t Scenario



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

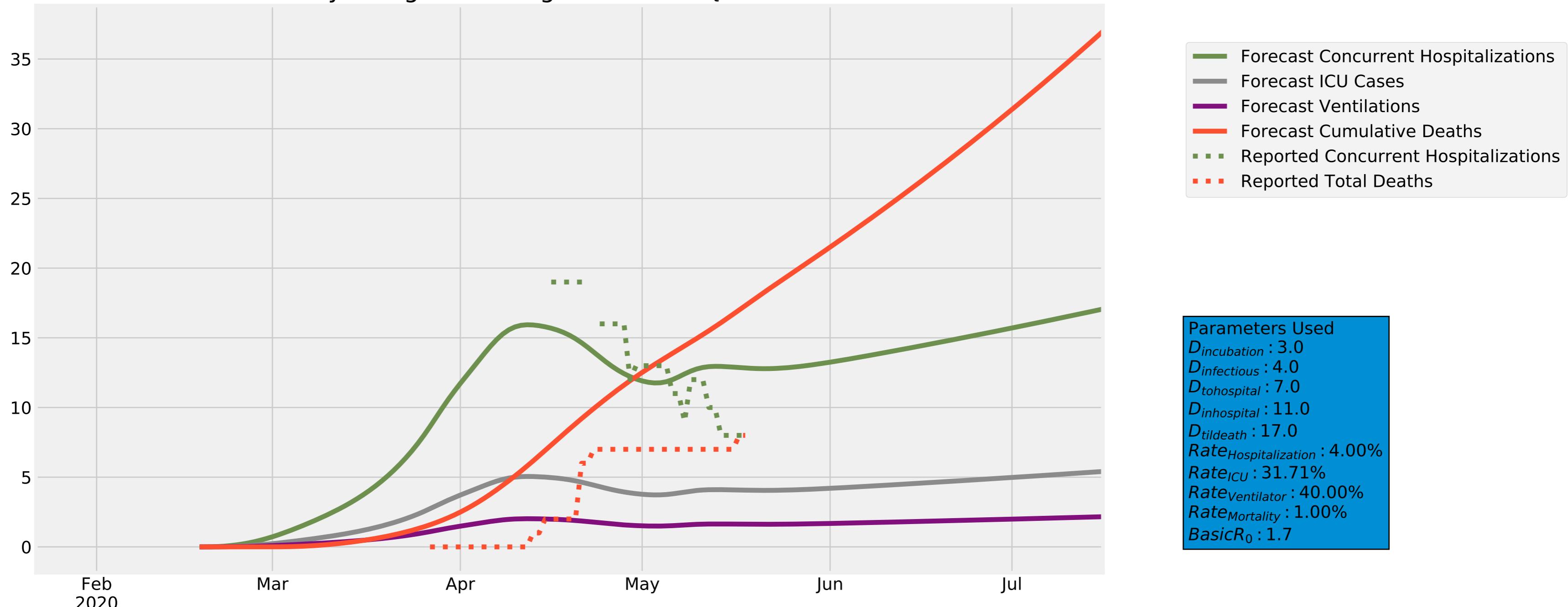
Simultaneous Infections Forecast

Wyoming: No Change in Future R_t Scenario



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

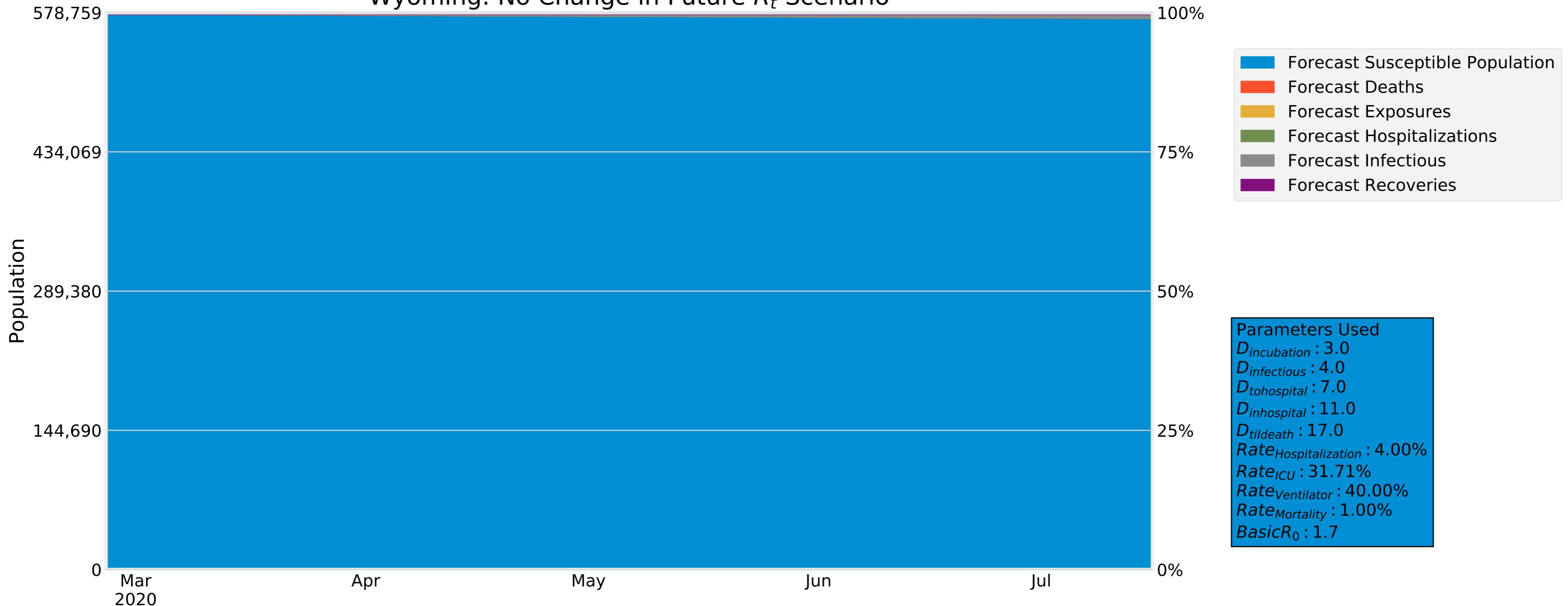
Hospitalization and Deaths Forecast Wyoming: No Change in Future R_t Scenario



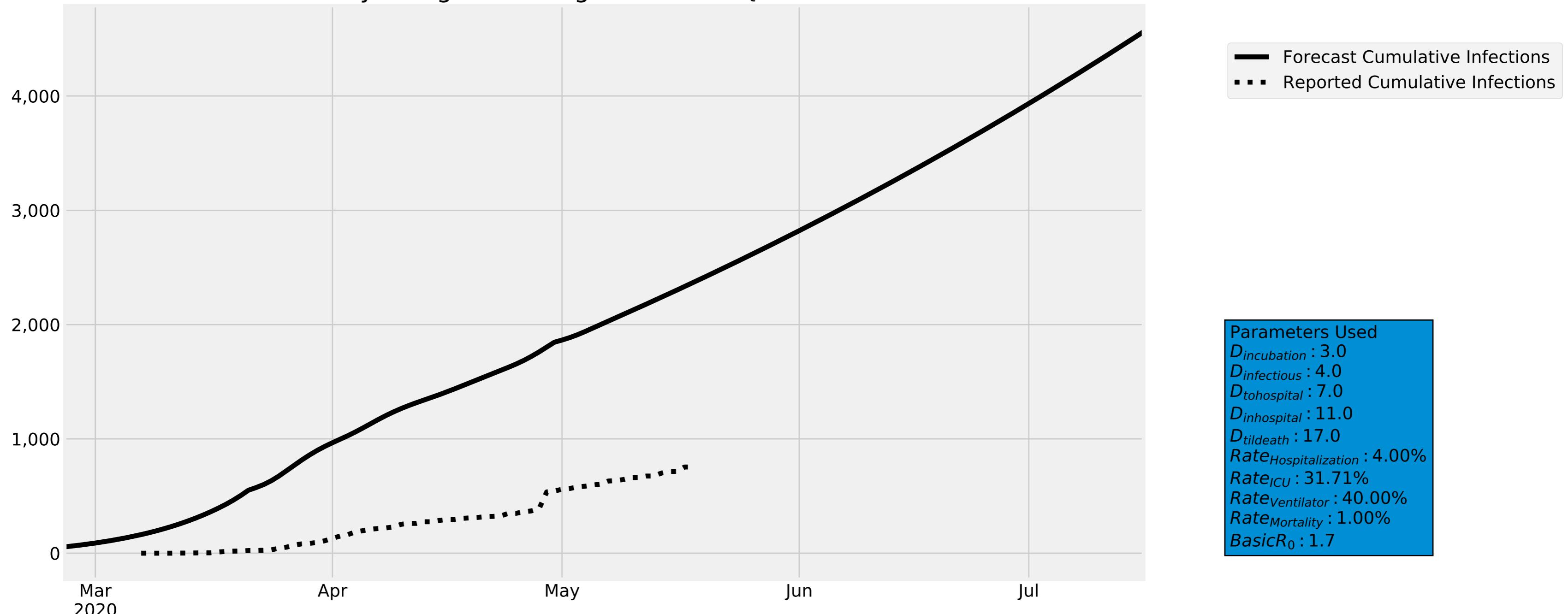
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

Wyoming: No Change in Future R_t Scenario



Cumulative Infections Forecast Wyoming: No Change in Future R_t Scenario

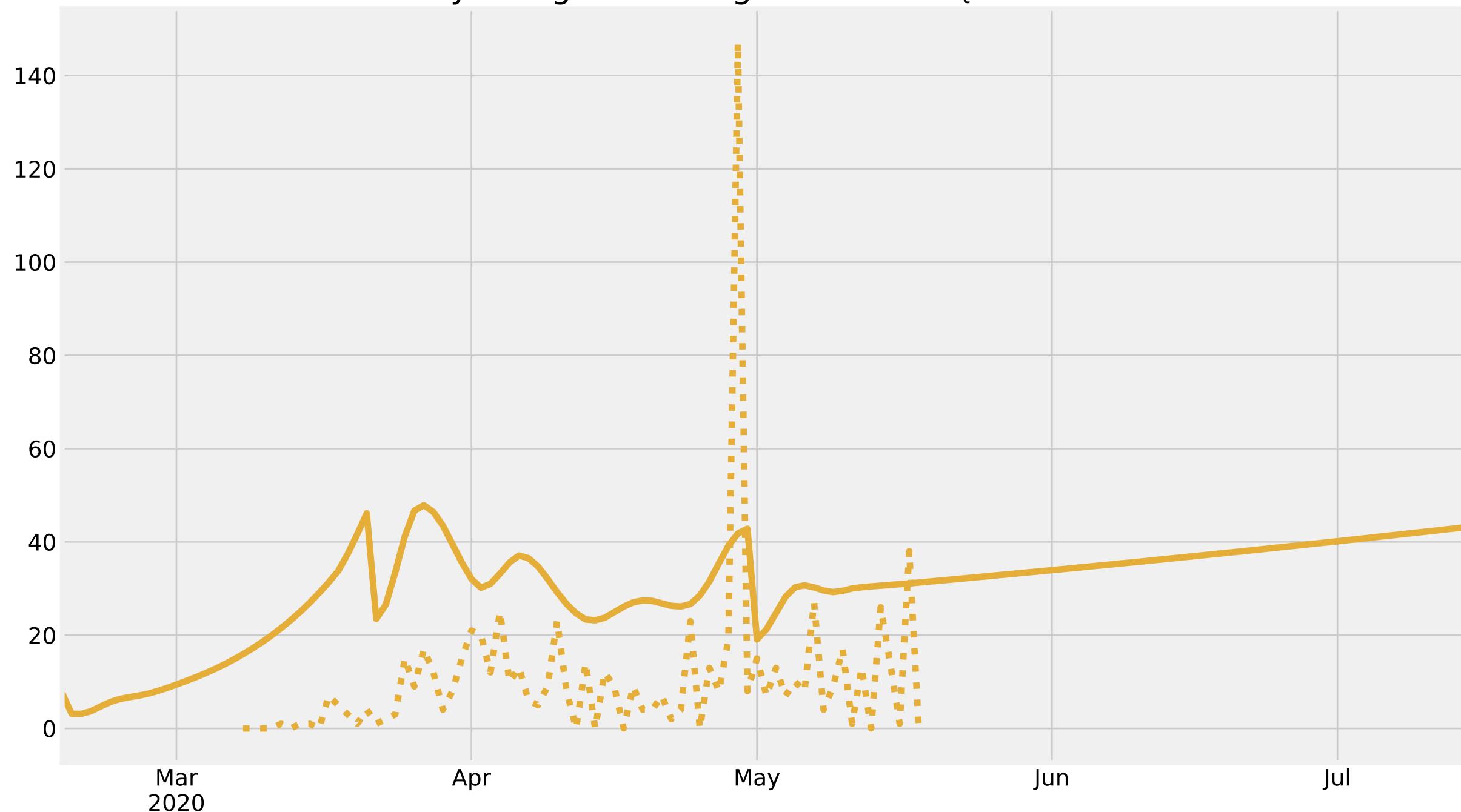


Parameters Used

$D_{incubation}$: 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%
$BasicR_0$: 1.7

Daily Exposures Forecast

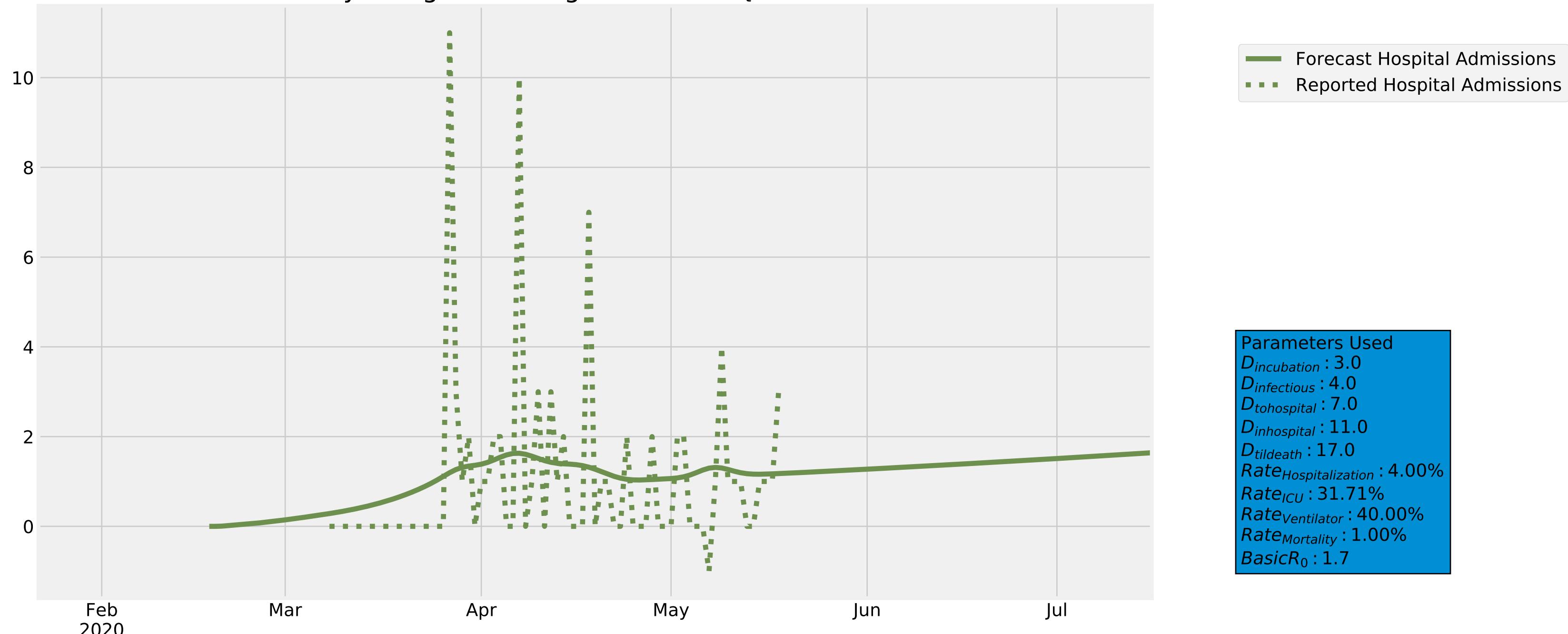
Wyoming: No Change in Future R_t Scenario



Parameters Used

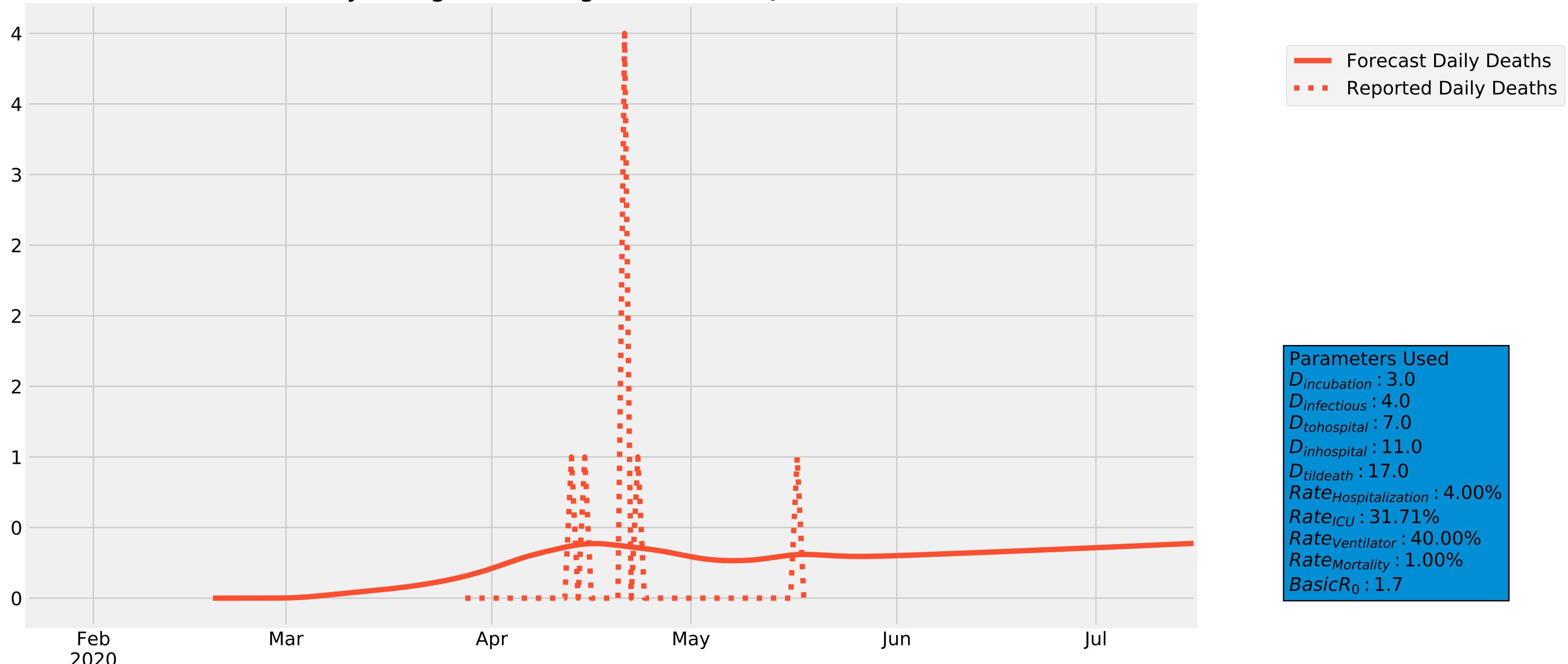
$D_{incubation}$:	3.0
$D_{infectious}$:	4.0
$D_{tohospital}$:	7.0
$D_{inhospital}$:	11.0
$D_{tildeath}$:	17.0
Rate _{Hospitalization} :	4.00%
Rate _{ICU} :	31.71%
Rate _{Ventilator} :	40.00%
Rate _{Mortality} :	1.00%
Basic R_0 :	1.7

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



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

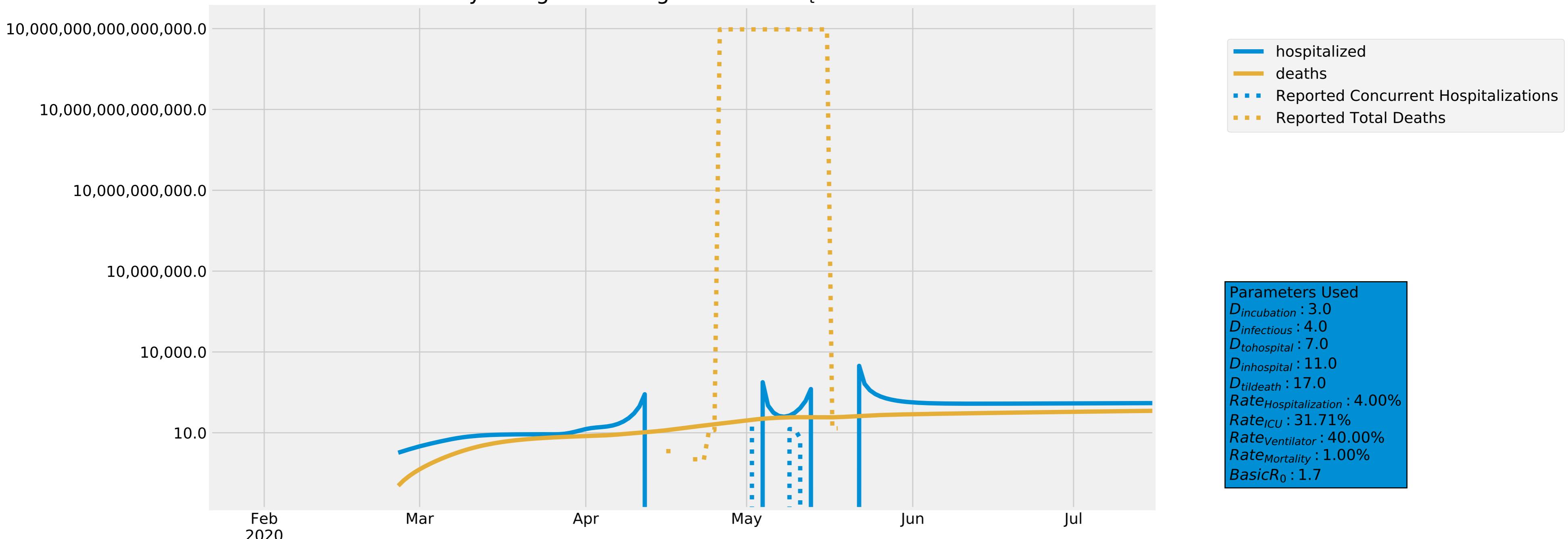
Daily Deaths Forecast Wyoming: No Change in Future R_t Scenario



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%
 $BasicR_0$: 1.7

Doubling Rate Forecast Wyoming: No Change in Future R_t Scenario



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