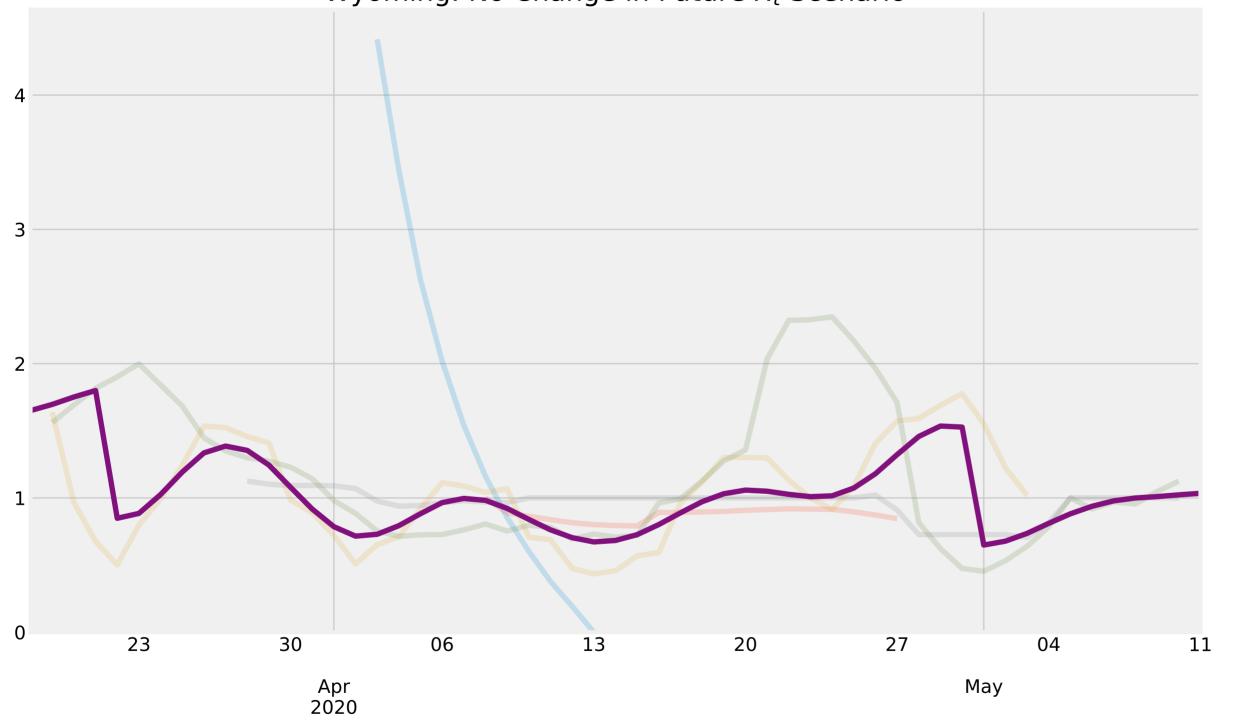
Reproduction Rate ( $R_t$ ) Estimates Wyoming: No Change in Future  $R_t$  Scenario



rt\_deaths\_daily rt\_hosp\_concur rt\_hosp\_admits rt\_cases\_daily rt\_pos\_test\_share\_daily rt\_joint\_est

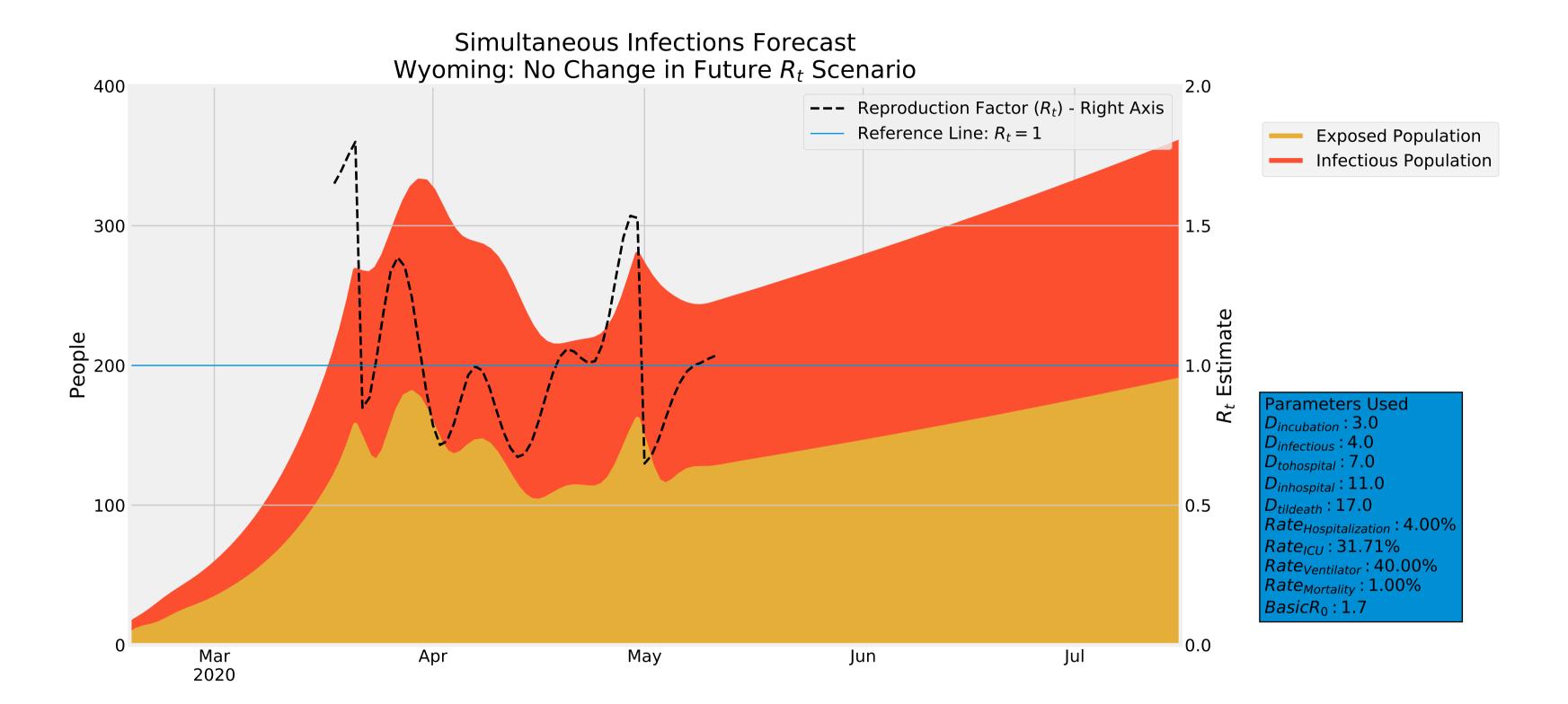
#### Parameters Used

D<sub>incubation</sub>: 3.0 D<sub>infectious</sub>: 4.0  $D_{tohospital}:7.0$ D<sub>inhospital</sub>: 11.0  $D_{tildeath}: 17.0$ 

Rate<sub>Hospitalization</sub>: 4.00% *Rate<sub>ICU</sub>*: 31.71%

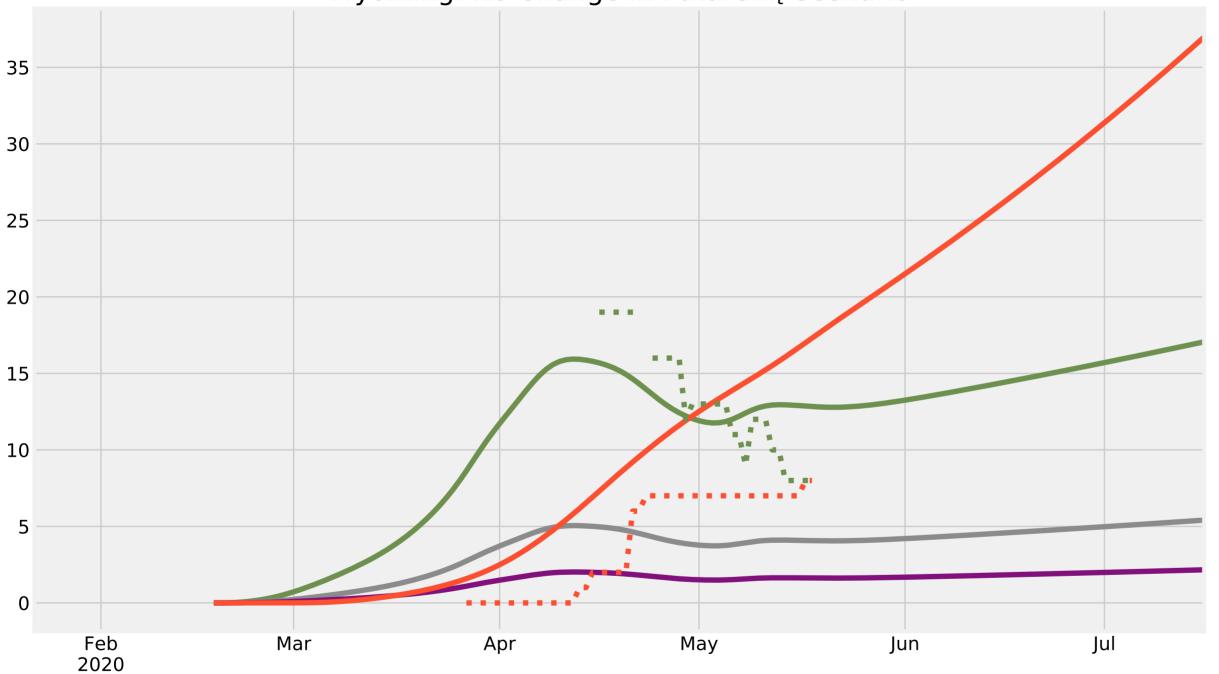
Rate<sub>Ventilator</sub>: 40.00% Rate<sub>Mortality</sub>: 1.00%

 $BasicR_0: 1.7$ 



Author: Michael Donnelly (twtr: @donnellymjd)

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



Forecast Concurrent Hospitalizations

Forecast ICU Cases

Forecast Ventilations

Forecast Cumulative Deaths

Reported Concurrent Hospitalizations

Reported Total Deaths

#### Parameters Used

 $D_{incubation}: 3.0$ D<sub>infectious</sub>: 4.0 D<sub>tohospital</sub>: 7.0

D<sub>inhospital</sub>: 11.0

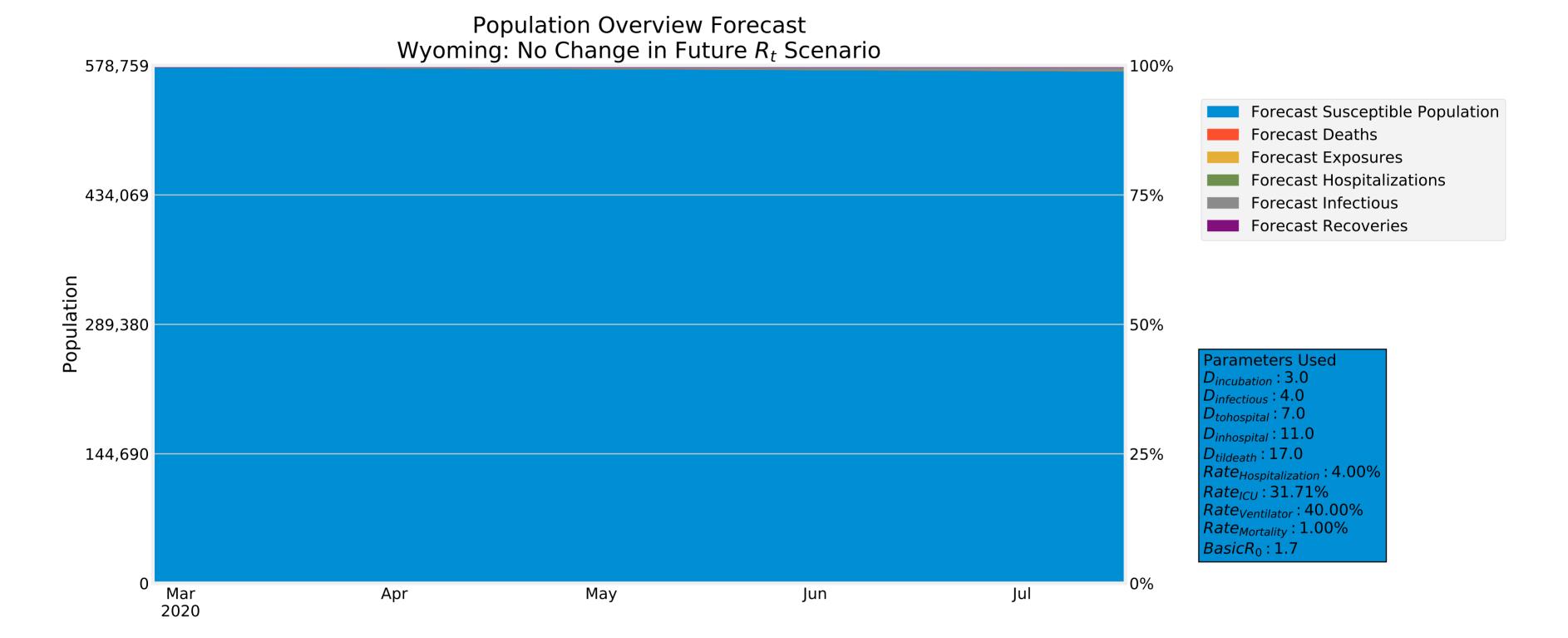
 $D_{tildeath}: 17.0$ 

 $Rate_{Hospitalization}: 4.00\%$ 

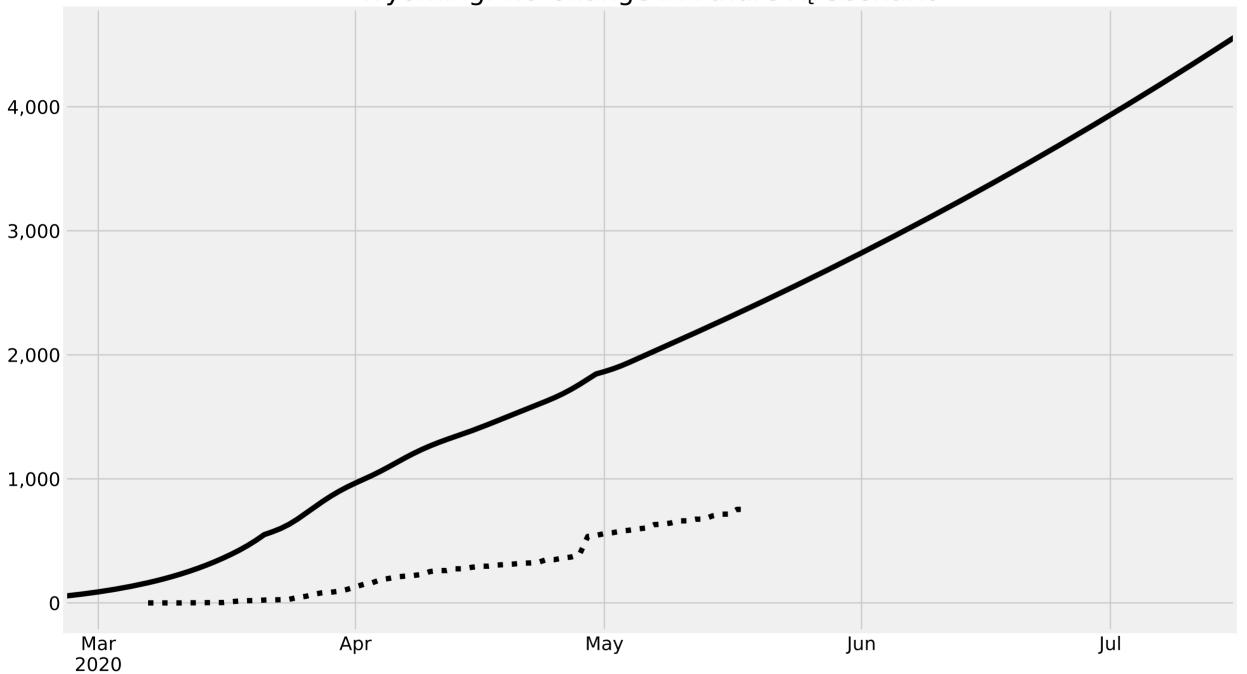
Rate<sub>ICU</sub>: 31.71% Rate<sub>Ventilator</sub>: 40.00% Rate<sub>Mortality</sub>: 1.00%

 $BasicR_0: 1.7$ 

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#### **Cumulative Infections Forecast** Wyoming: No Change in Future $R_t$ Scenario



Forecast Cumulative Infections Reported Cumulative Infections

Parameters Used

 $D_{incubation}$ : 3.0  $D_{infectious}$ : 4.0  $D_{tohospital}$ : 7.0

 $D_{inhospital}: 11.0$ 

 $D_{tildeath}$ : 17.0

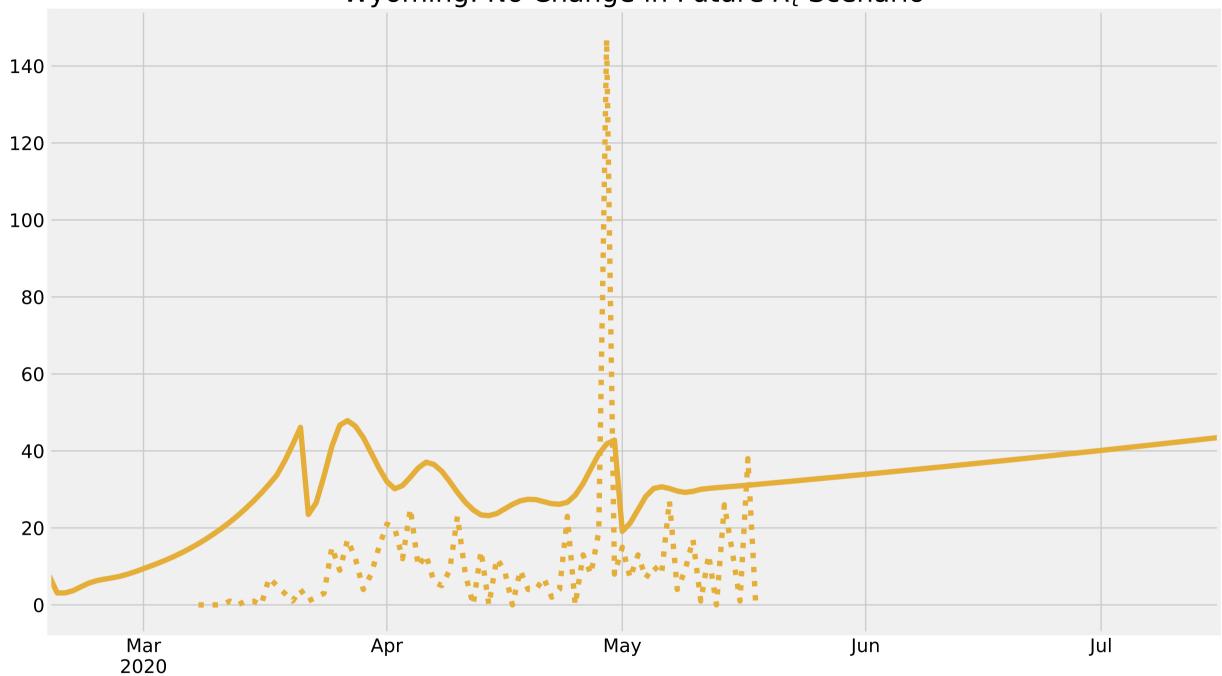
Rate<sub>Hospitalization</sub>: 4.00%

Rate<sub>ICU</sub>: 31.71%

Rate<sub>Ventilator</sub>: 40.00% Rate<sub>Mortality</sub>: 1.00%

 $BasicR_0: 1.7$ 

# Daily Exposures Forecast Wyoming: No Change in Future $R_t$ Scenario



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

Parameters Used

D<sub>incubation</sub>: 3.0

 $D_{infectious}$ : 4.0  $D_{tohospital}$ : 7.0

 $D_{inhospital}: 11.0$  $D_{tildeath}: 17.0$ 

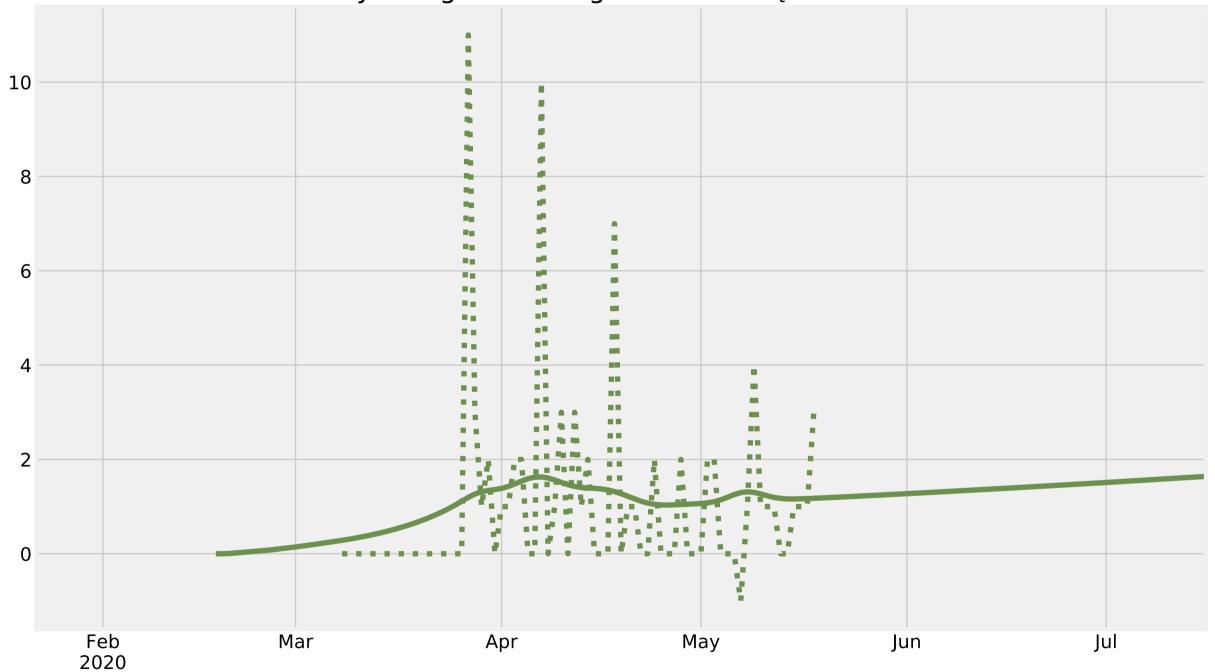
Rate<sub>Hospitalization</sub>: 4.00%

Rate<sub>ICU</sub>: 31.71% Rate<sub>Ventilator</sub>: 40.00%

Rate<sub>Mortality</sub>: 1.00%

 $BasicR_0: 1.7$ 

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



Forecast Hospital AdmissionsReported Hospital Admissions

Parameters Used

 $D_{incubation}: 3.0$ 

 $D_{infectious}$ : 4.0  $D_{tohospital}$ : 7.0

D<sub>inhospital</sub>: 11.0

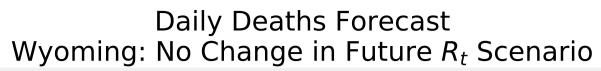
 $D_{tildeath}: 17.0$ 

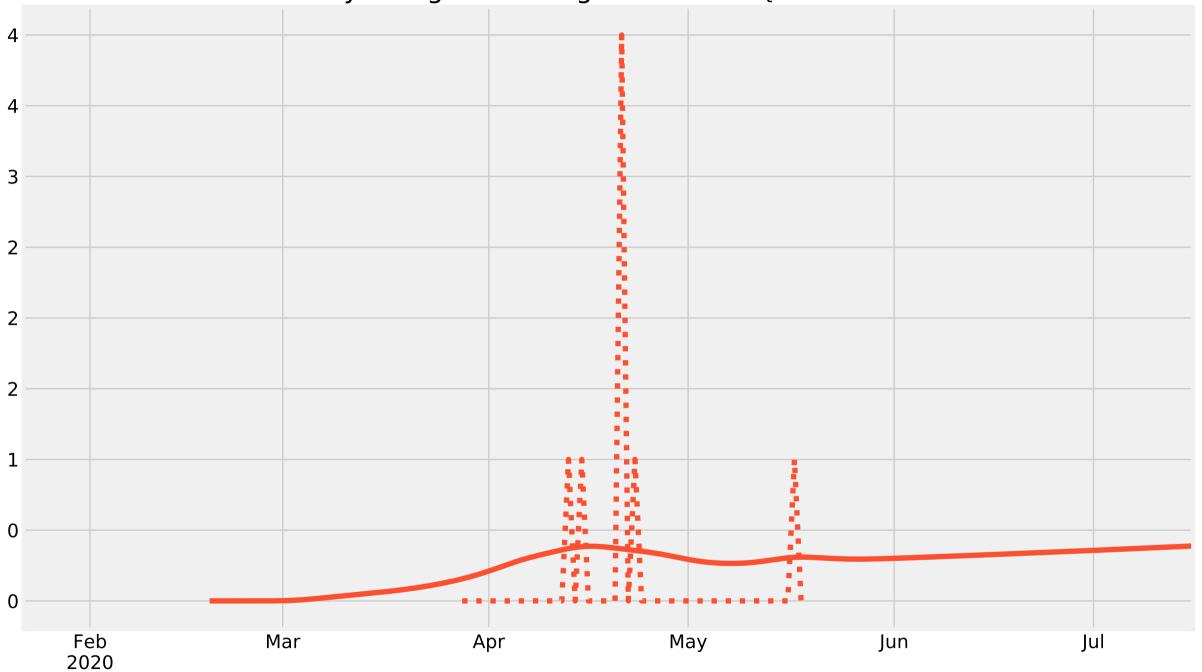
Rate<sub>Hospitalization</sub>: 4.00%

 $Rate_{ICU}$ : 31.71%  $Rate_{Ventilator}$ : 40.00%  $Rate_{Mortality}$ : 1.00%

 $BasicR_0: 1.7$ 

Author: Michael Donnelly (twtr: @donnellymjd)





Forecast Daily DeathsReported Daily Deaths

Parameters Used

D<sub>incubation</sub>: 3.0

 $D_{infectious}$ : 4.0  $D_{tohospital}$ : 7.0

D<sub>inhospital</sub>: 11.0

 $D_{tildeath}: 17.0$ 

Rate<sub>Hospitalization</sub>: 4.00%

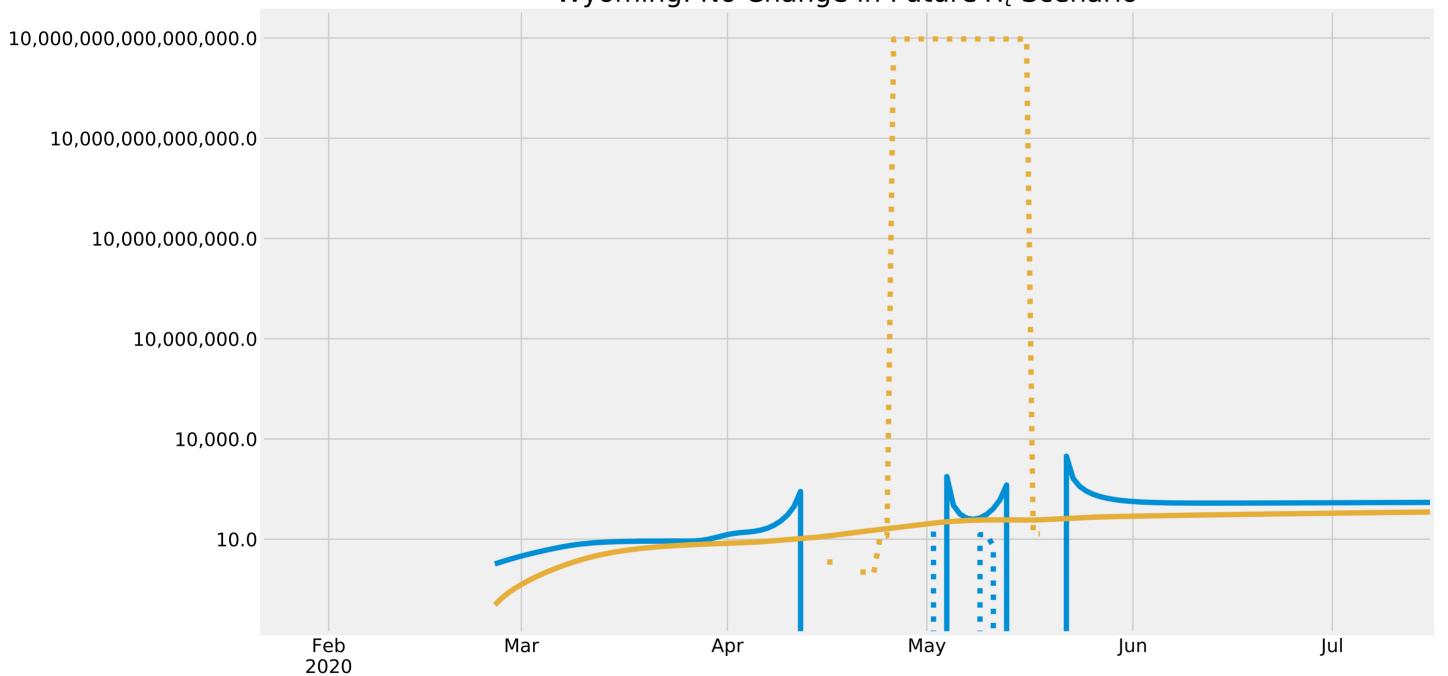
Rate<sub>ICU</sub>: 31.71%

 $Rate_{Ventilator}$ : 40.00%  $Rate_{Mortality}$ : 1.00%

 $BasicR_0: 1.7$ 

Author: Michael Donnelly (twtr: @donnellymjd)

# Doubling Rate Forecast Wyoming: No Change in Future $R_t$ Scenario



hospitalized

deaths

Reported Concurrent Hospitalizations

Reported Total Deaths

#### Parameters Used

 $D_{incubation}$ : 3.0  $D_{infectious}$ : 4.0  $D_{tohospital}$ : 7.0

D<sub>inhospital</sub>: 11.0

 $D_{tildeath}: 17.0$ 

 $Rate_{Hospitalization}: 4.00\%$ 

Rate<sub>ICU</sub>: 31.71%

Rate<sub>Ventilator</sub>: 40.00%

 $Rate_{Mortality}: 1.00\%$ 

 $BasicR_0: 1.7$