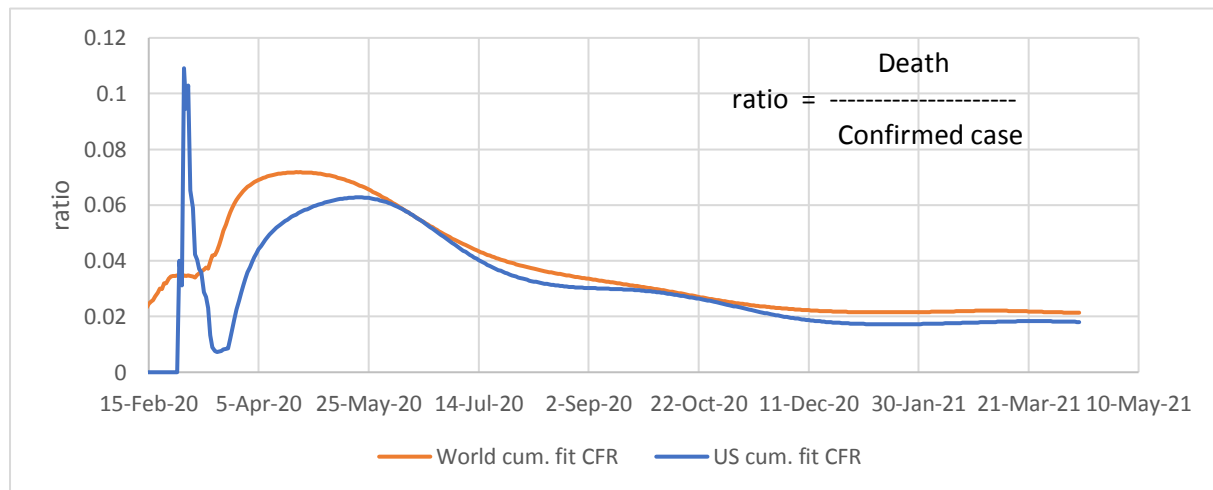
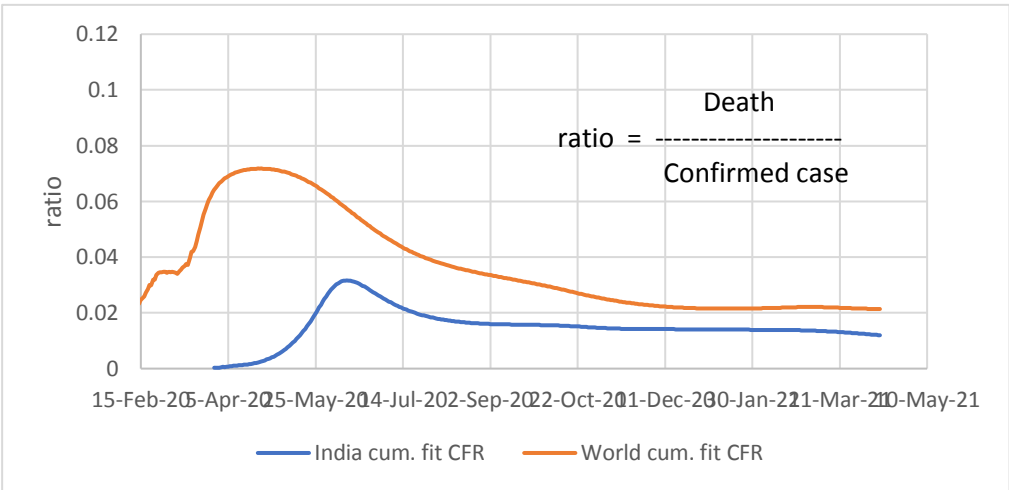
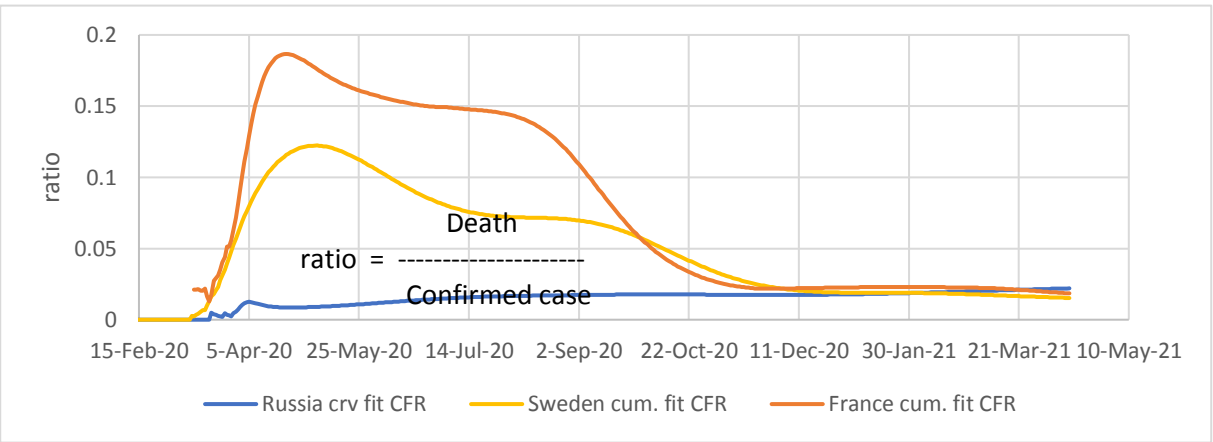
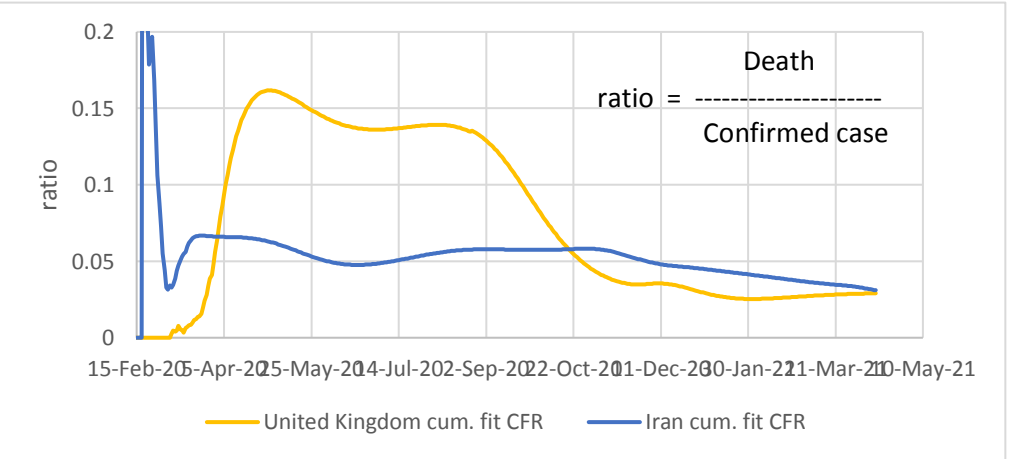
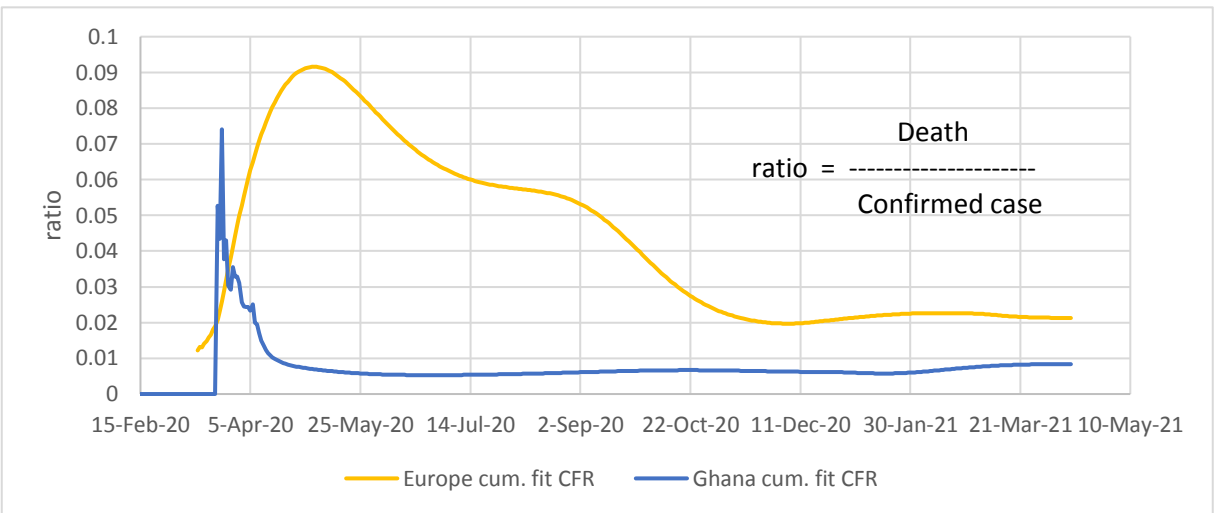
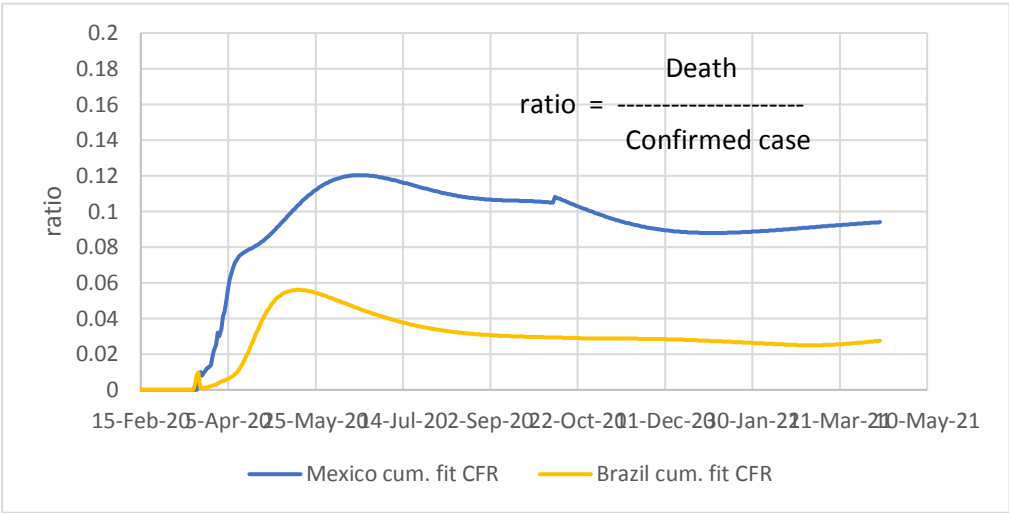
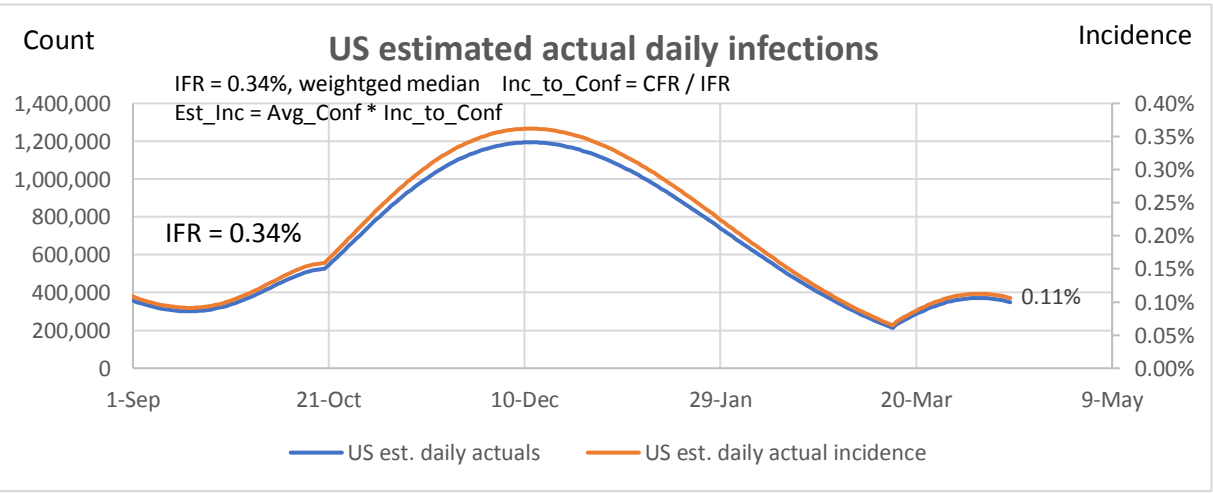
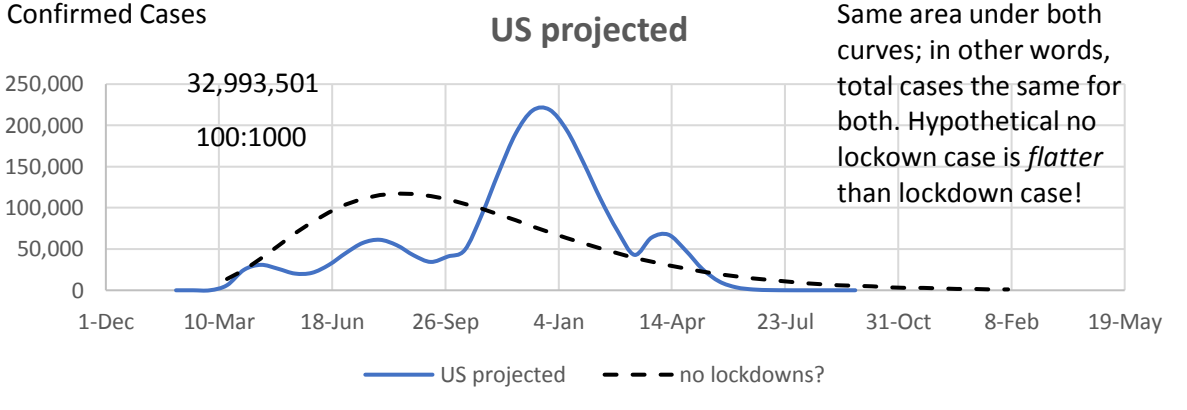
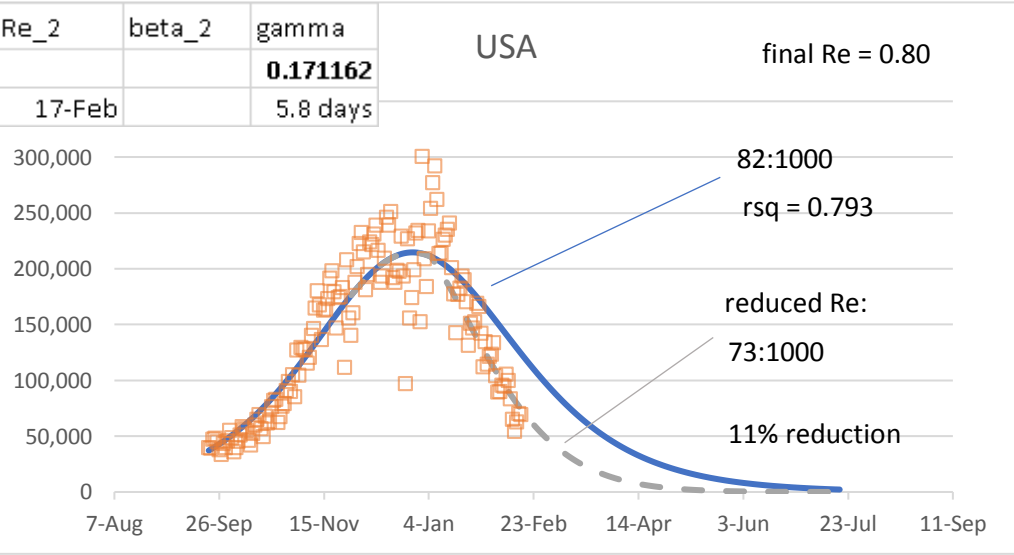


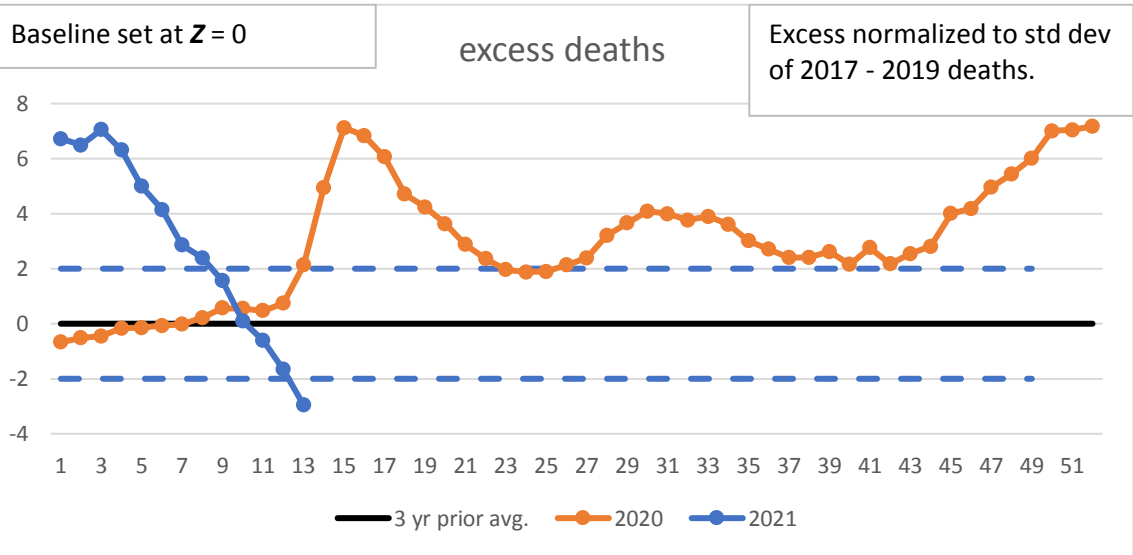
Experimental page : ratios of curve fit deaths to curve fit confirmed cases (CFR)



Demonstration of SIR model where R_e is linearly reduced to 0.80 at the end of the sequence:



Reducing the R_e while keeping gamma constant is the same as reducing contact rate. Contact rate is reduced through isolation, lockdowns, and vaccinations. Seems to indicate timing of start of measures is a big factor. The orange data taken as without measures, but we know certain measures were taken. Hard to determine effect, without a basis of comparison.



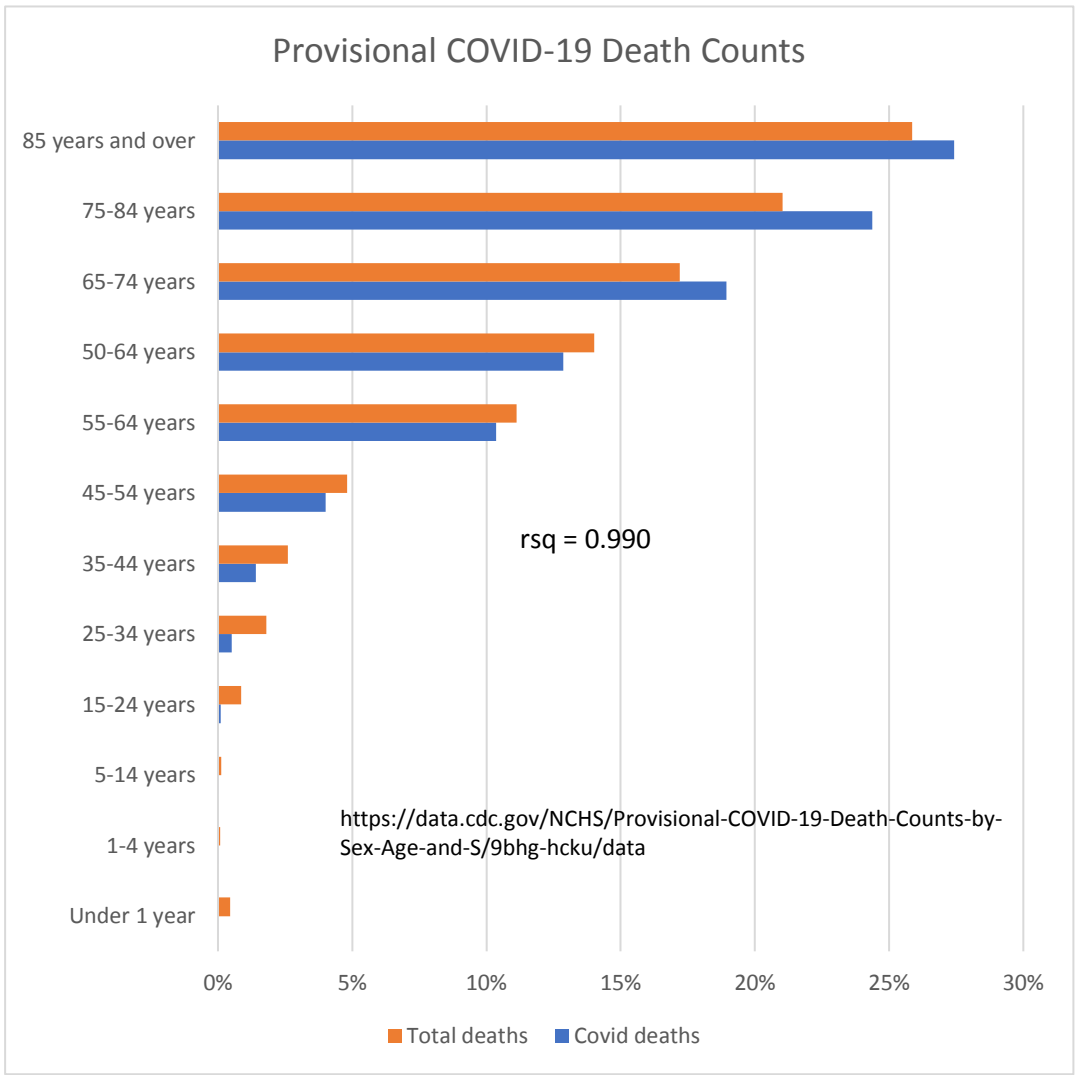
False Positives Demonstration

Use 0.11% from US est. incidence above as estimated daily incidence
Prevalence estimated as avg. infected period of 2 weeks X incidence
99% accuracy of test
0.11% X 14 = 1.540%

	Positive	Negative	
test pos	1.525%	0.985%	2.51%
test neg	0.015%	97.475%	97.49%
	1.540%	98.460%	100.00%

False pos. is less than half of total positives.		
TRUE +	1.525%/2.51%	60.8%
FALSE +	0.985%/2.51%	39.2%
Total		100.00%

Counter-act this tendency by increasing test sensitivity. However this may increase false negatives, the recipients of which may be positive, think they're negative, and go spread it around some more.



USA Excess Deaths (from CDC data):

Annualized on 52 weeks			
	All Cause	All Cause, excl. CV19	CV19
3 yr average before 2020	859:100,000	859:100,000	-
2020	1014:100,000	904:100,000	-
Diff.	155:100,000	44:100,000	111:100,000

3 yr average: 859:100,000

29% of All-Cause excess deaths are non-CV19

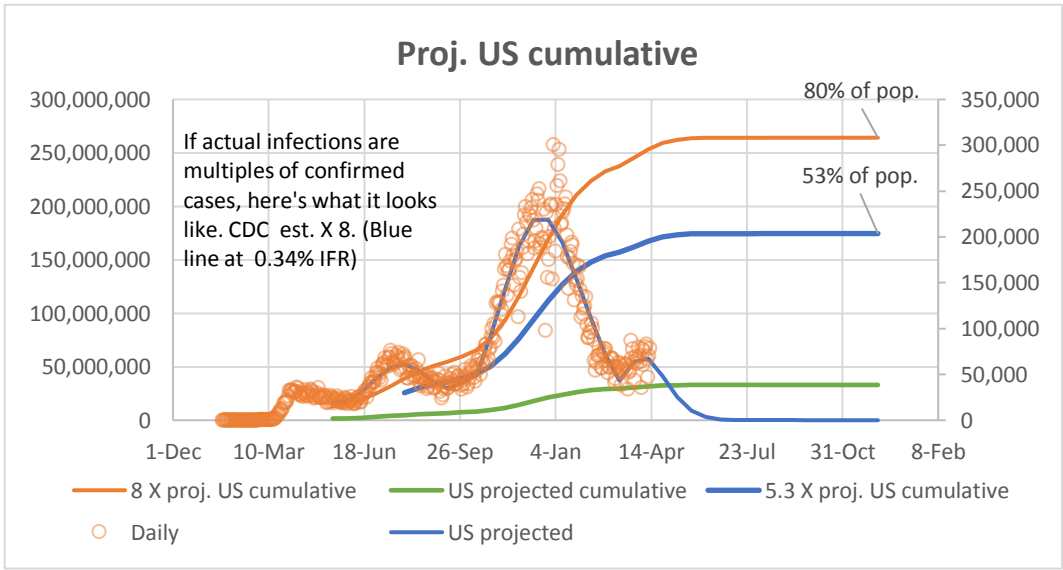
<https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkxf-xrst/data>

$K = 0.318$ $R_o :$ $R :$

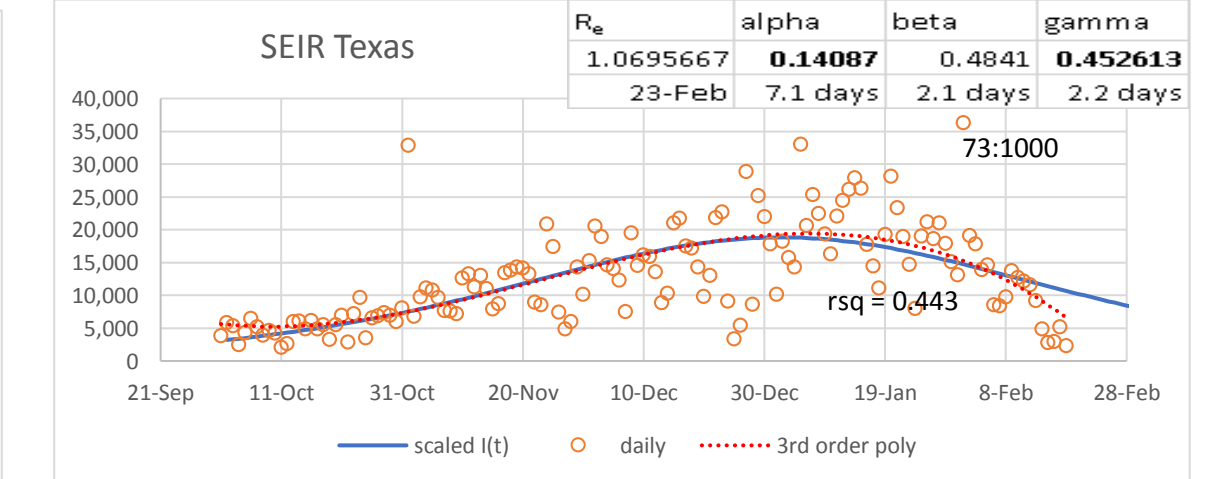
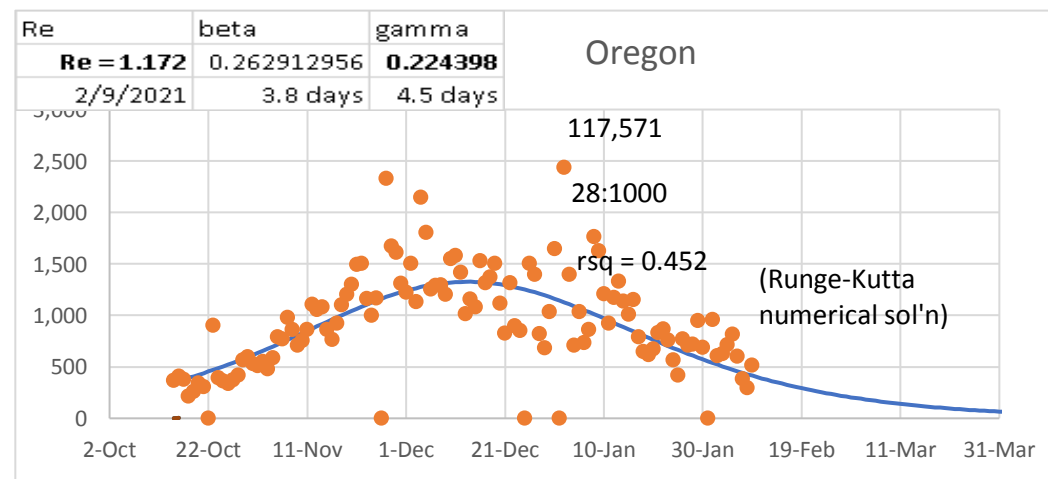
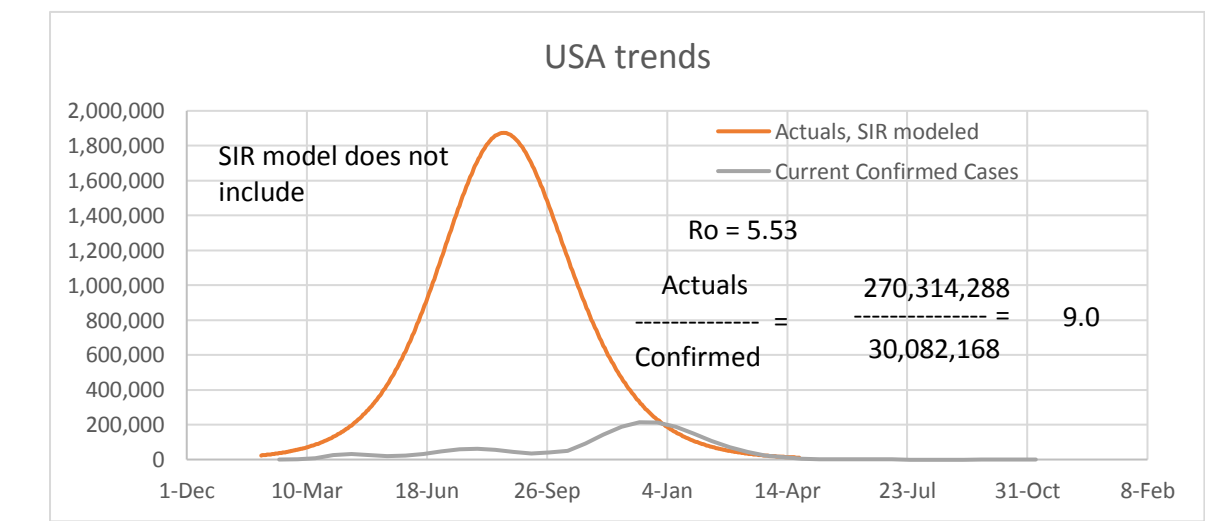
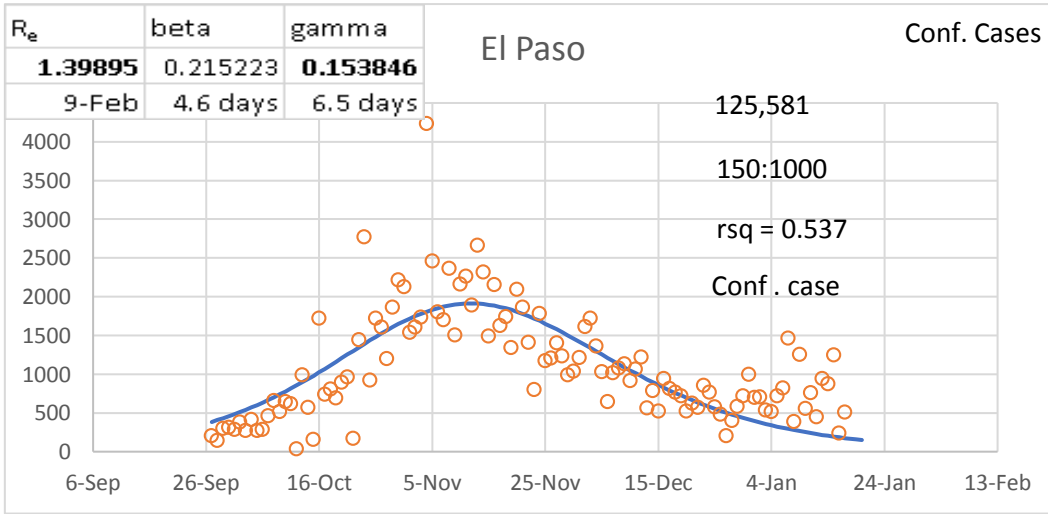
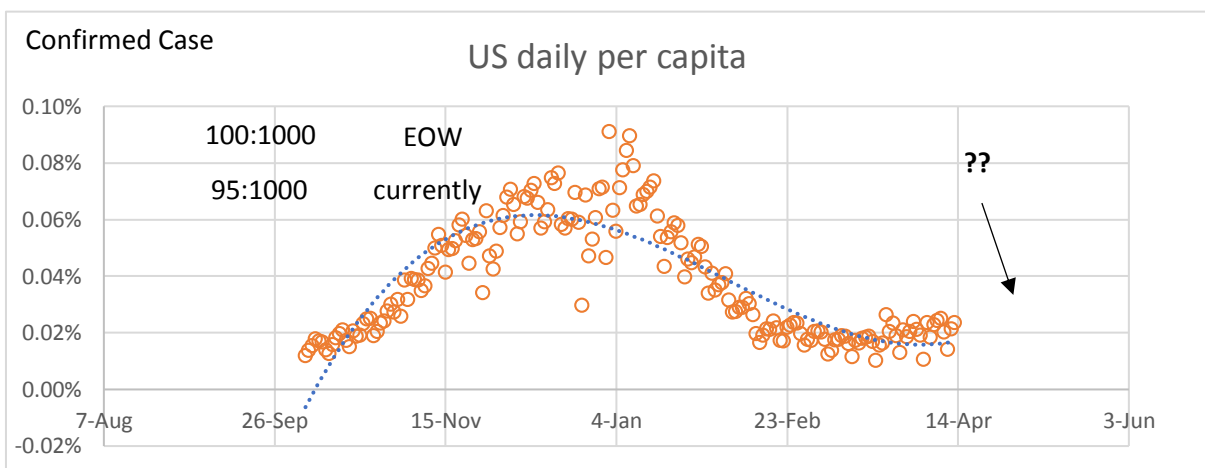
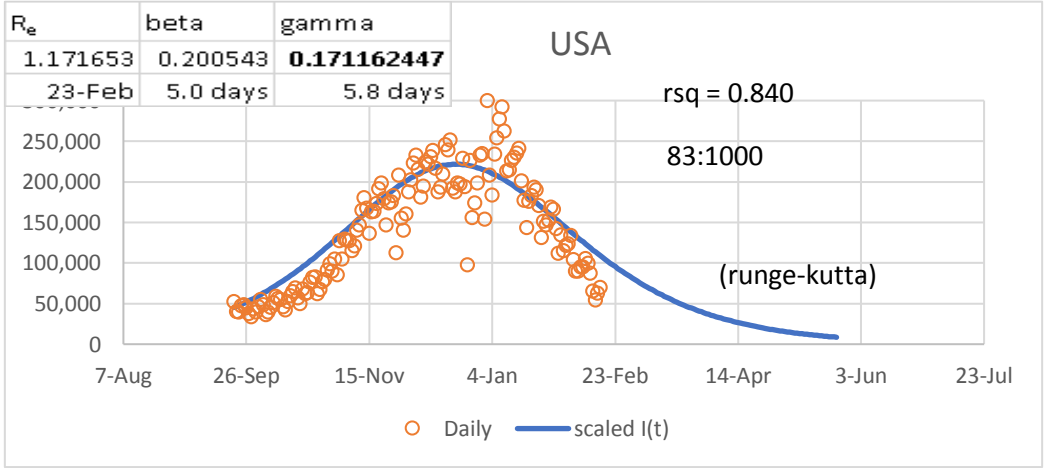
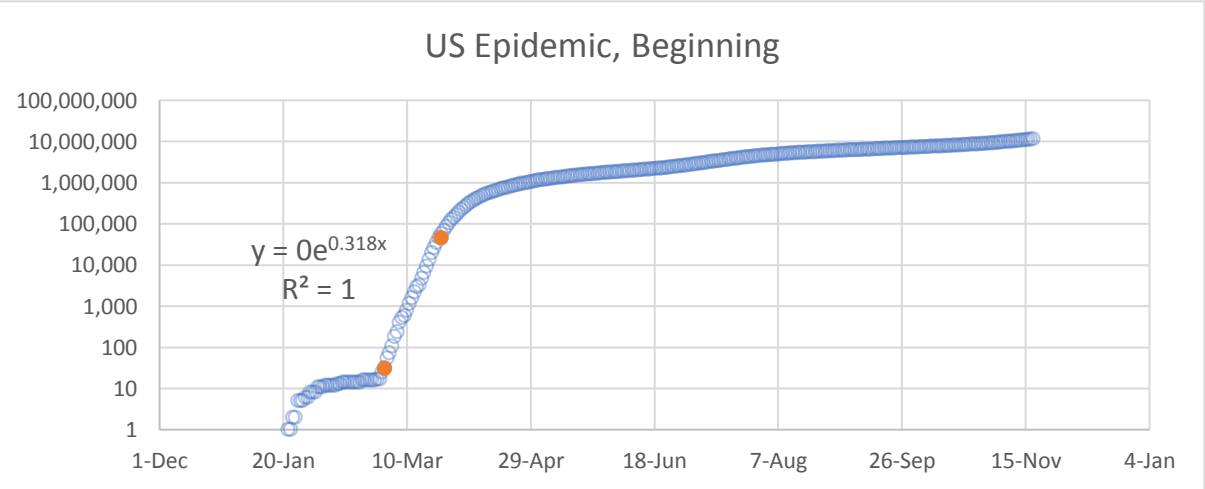
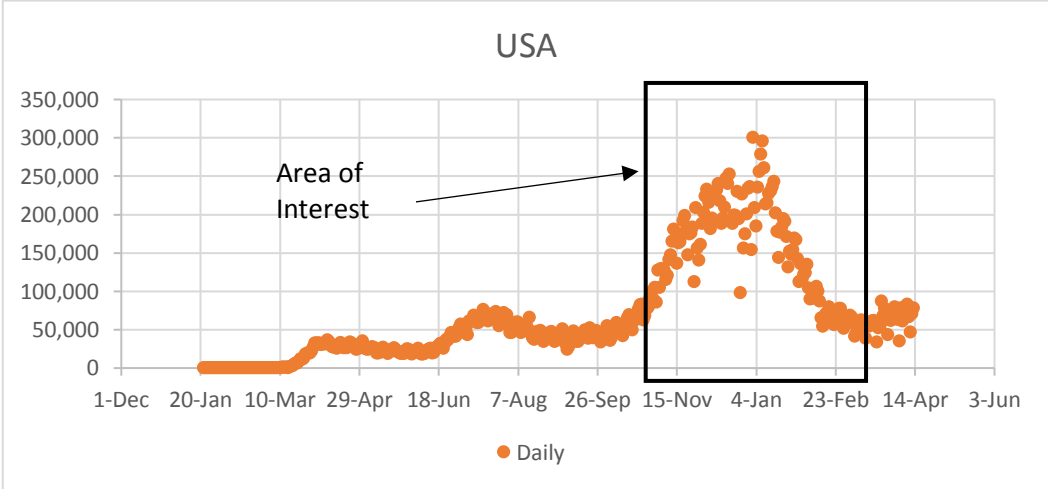
$\gamma = 0.171$ $R_o = \exp(K/\gamma) = 6.42$ 84%

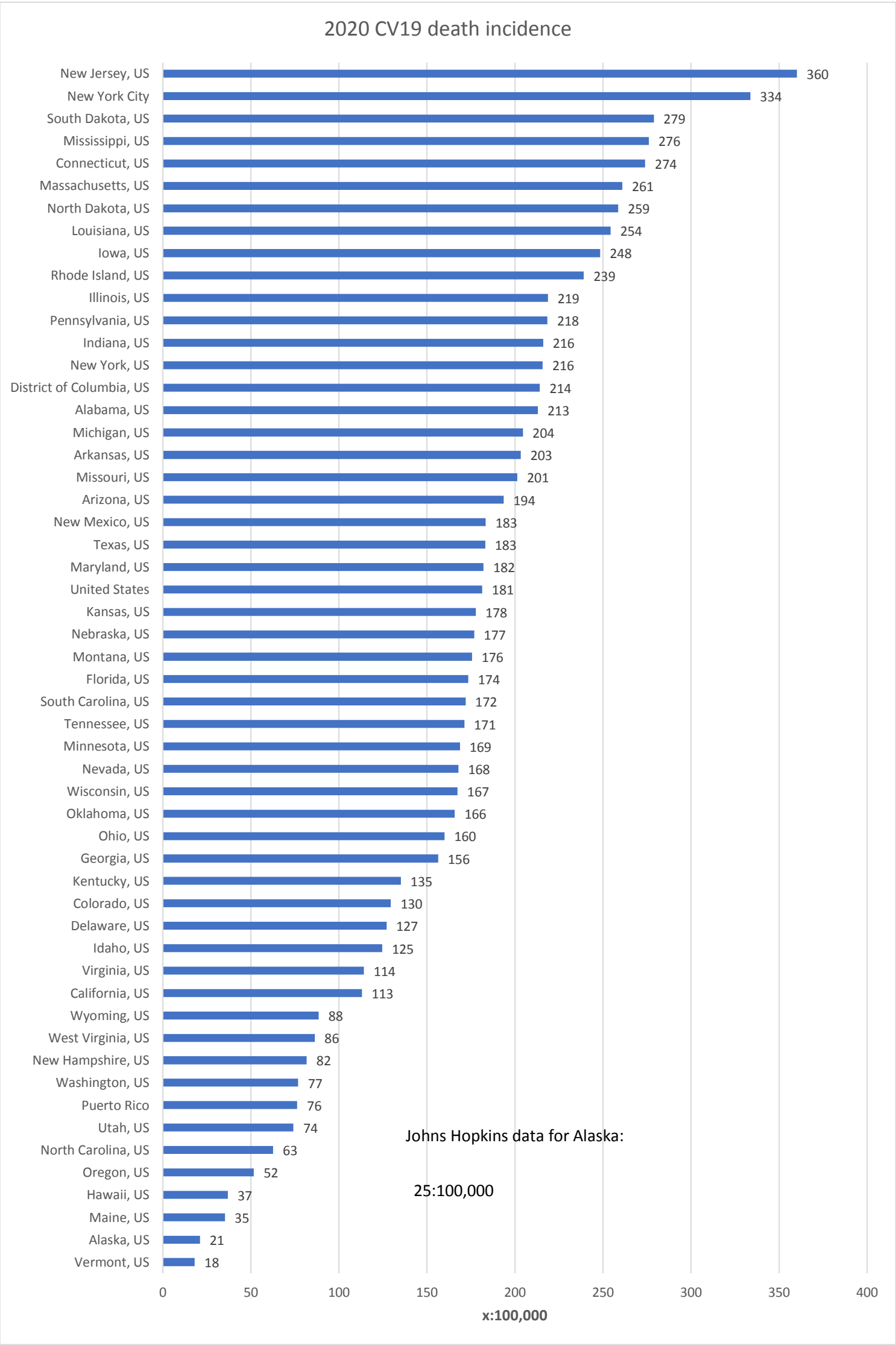
$\gamma = 0.286$ $R > 1 - 1/R_o = 3.04$ 67% \leq Herd immunity

R is recovered variable.



Here are some demonstrations of SIR model, using R_e , gamma, and beta





<https://data.cdc.gov/NCHS/Weekly-Counts-of-Deaths-by-State-and-Select-Causes/muzy-ite6/data>