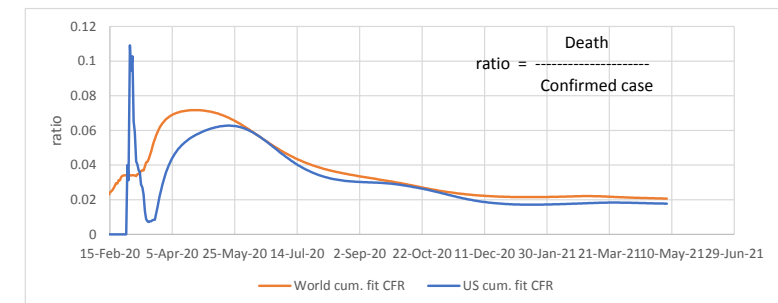
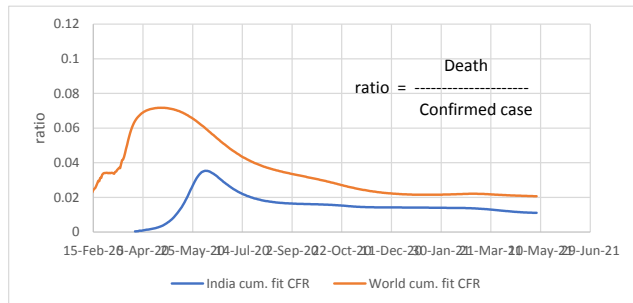
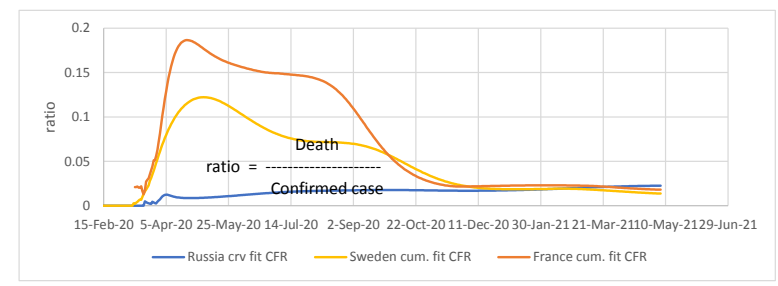
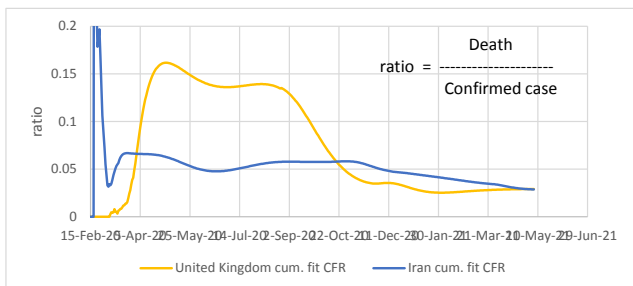
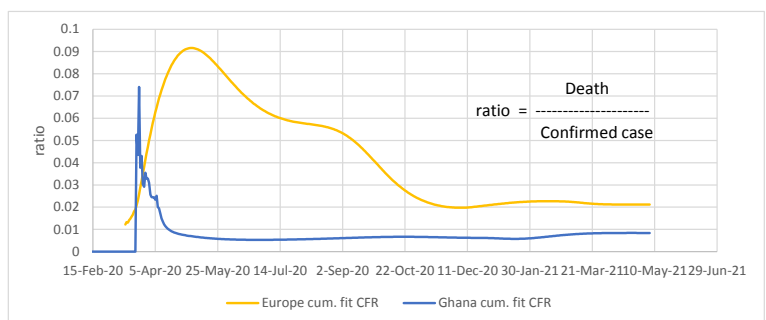
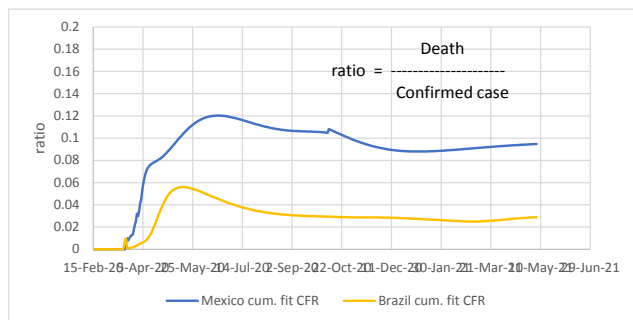
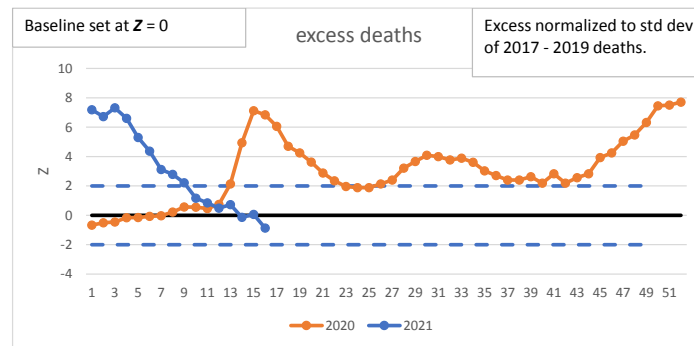


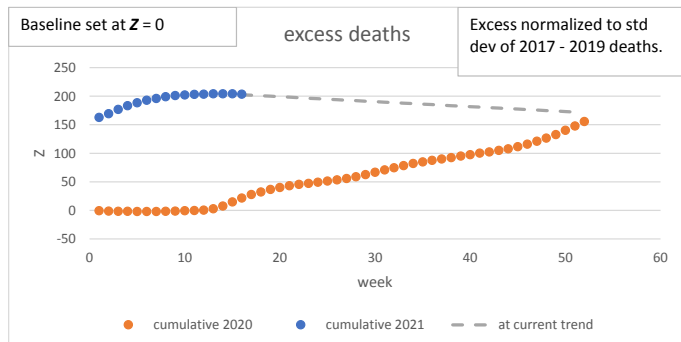
Experimental page : ratios of curve fit deaths to curve fit confirmed cases (CFR)



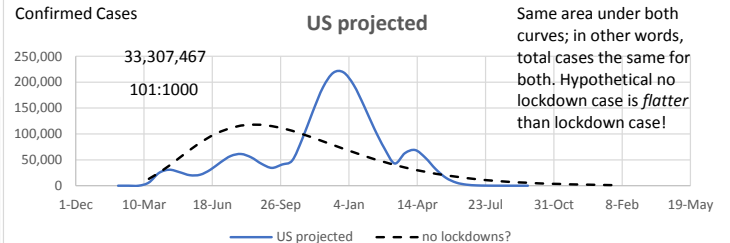
Excess deaths as a Z score:



Above based on Z score of three year standard deviation from 2017-2019. What follows is cumulative plot of same.

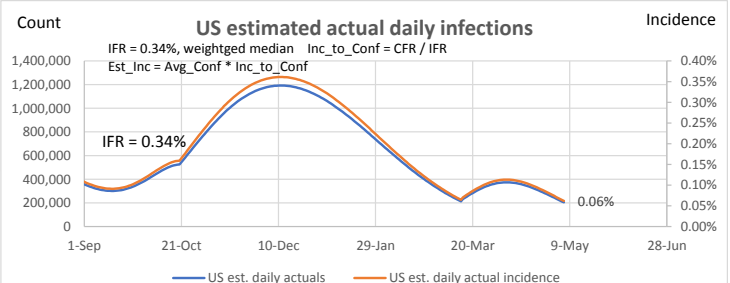


Confirmed Cases



Same area under both curves; in other words, total cases the same for both. Hypothetical no lockdown case is flatter than lockdown case!

Count



False Positives Demonstration

Use 0.06% from US est. incidence above as estimated daily incidence

Prevalence estimated as avg. infected period of 2 weeks X incidence

99% accuracy of test

0.06% X 14 = 0.840%

	Positive	Negative	
test pos	0.832%	0.992%	1.82%
test neg	0.008%	98.168%	98.18%
	0.840%	99.160%	100.00%

False pos. is more than half of total positives.

TRUE +	0.832%/1.82%	45.6%
FALSE +	0.992%/1.82%	54.4%
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.

0

Annualized on 0 weeks

	0:100,000	0:100,000	0:100,000
0	yr average before 202	0:100,000	0:100,000
0	2020:100,000	0:100,000	0:100,000
0	Diff.	0:100,000	0:100,000

0
0:100,000

85912% 0.292877

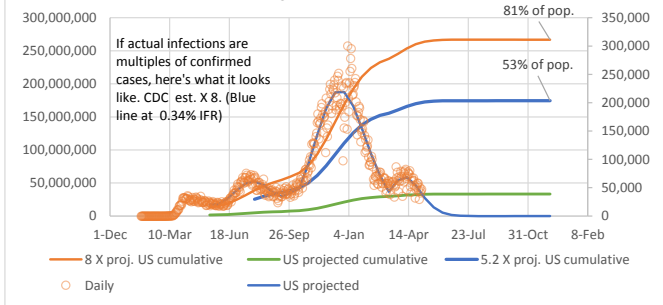
<https://data.cdc.gov/NCHS/Excess-Deaths-Associated-with-COVID-19/xkxf-xrst/data>

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

gamma = 0.171 $R_o = \exp(K/\text{gamma}) = 6.42$ 84%
 gamma = 0.286 $R > 1 - 1/R_o = 3.04$ 67% <=Herd immunity

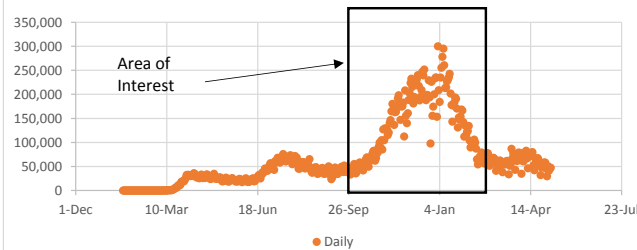
R is recovered variable.

Proj. US cumulative

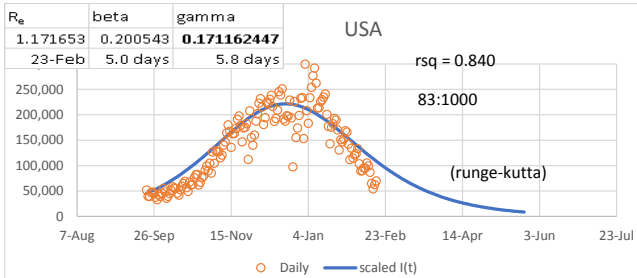
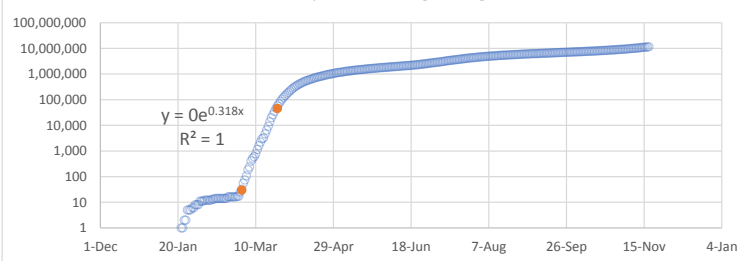


Here are some demonstrations of SIR model, using R_o , gamma, and beta

USA

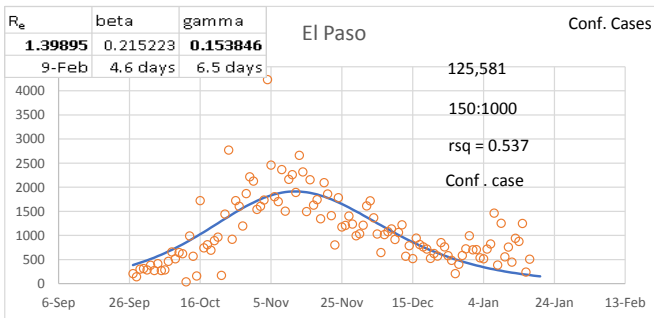
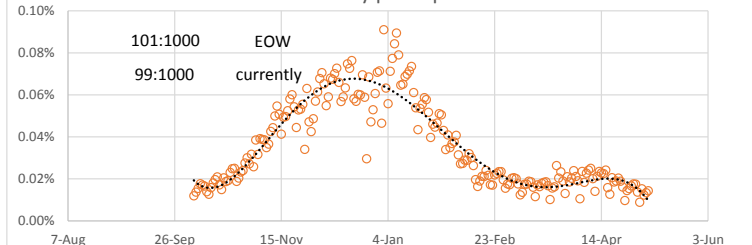


US Epidemic, Beginning

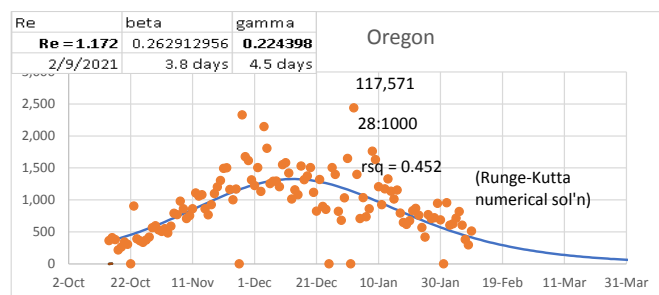
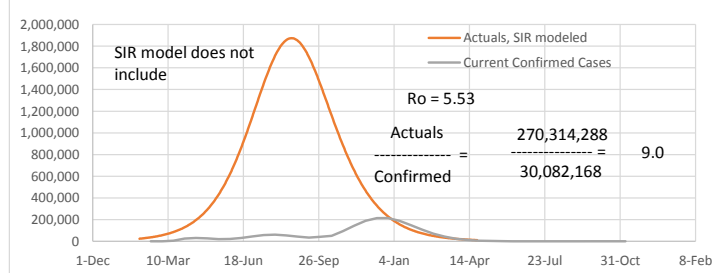


Confirmed Case

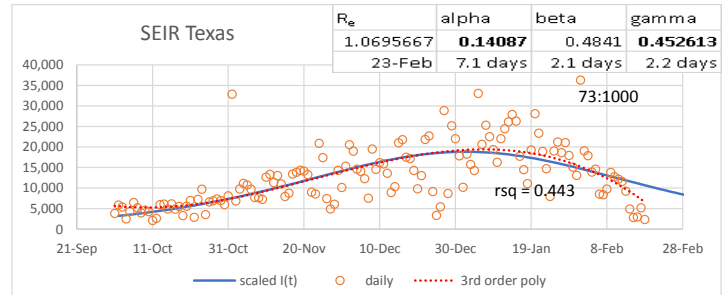
US daily per capita

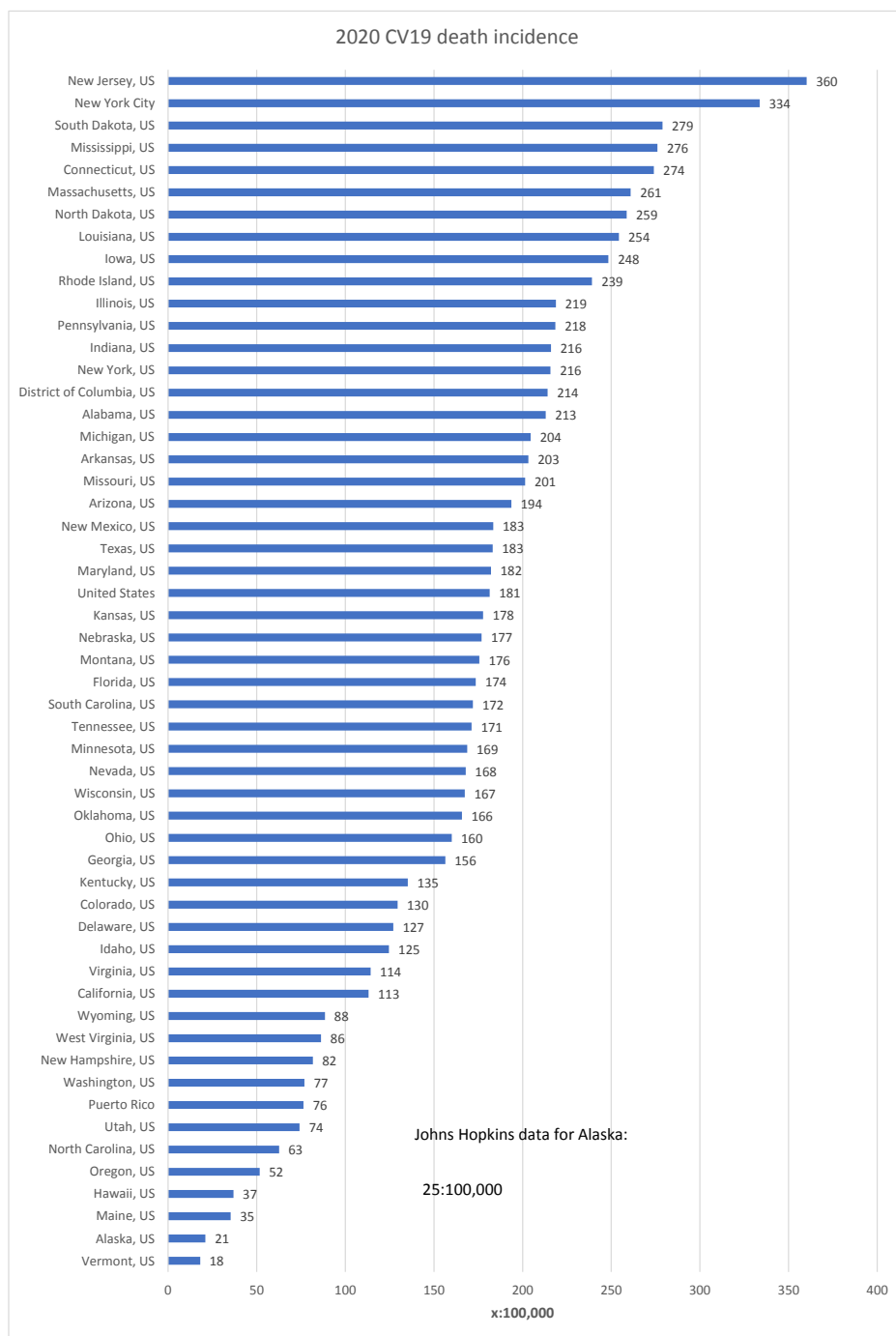


USA trends



SEIR Texas





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