Change Analysis

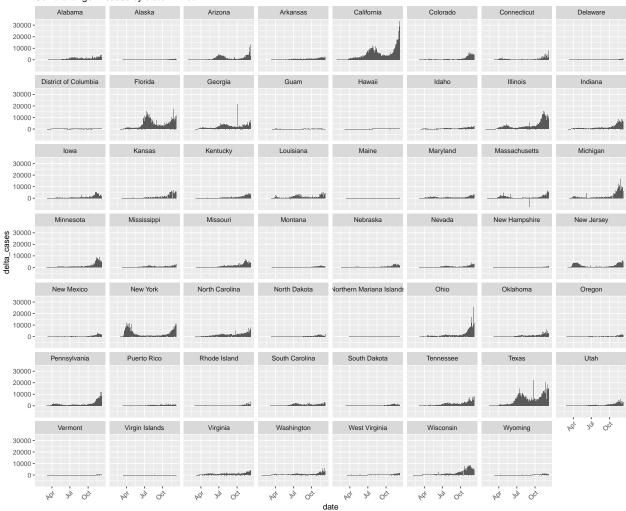
Another experiment to look at rate of change. Idea here is to compare the reported change against the cumulative sum.

Last date for states data is 2020-12-10

Extract daily changes

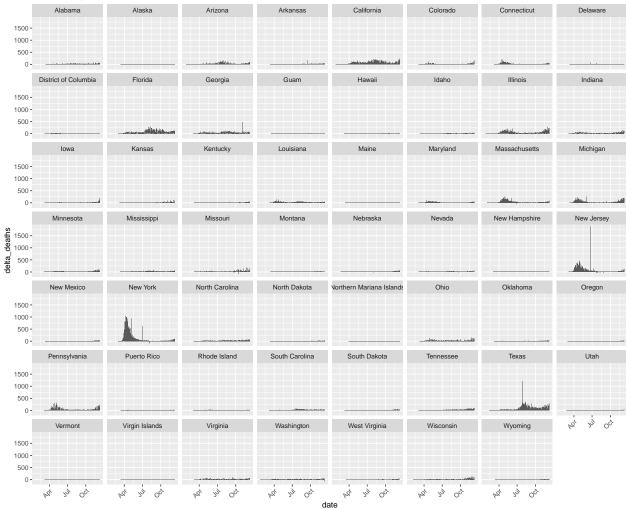
Daily Cases





Daily Deaths

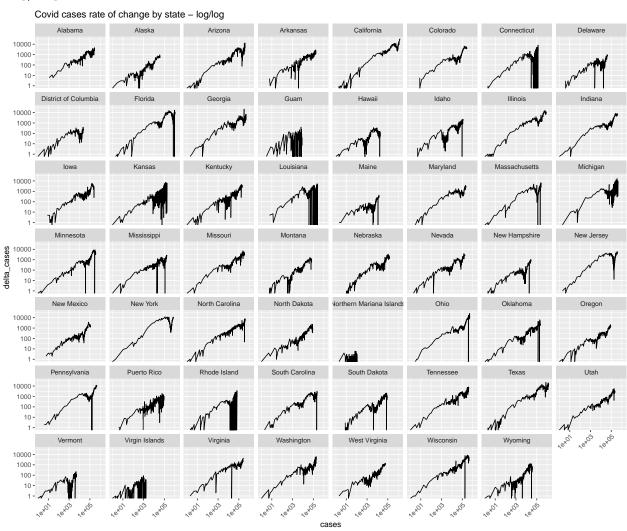




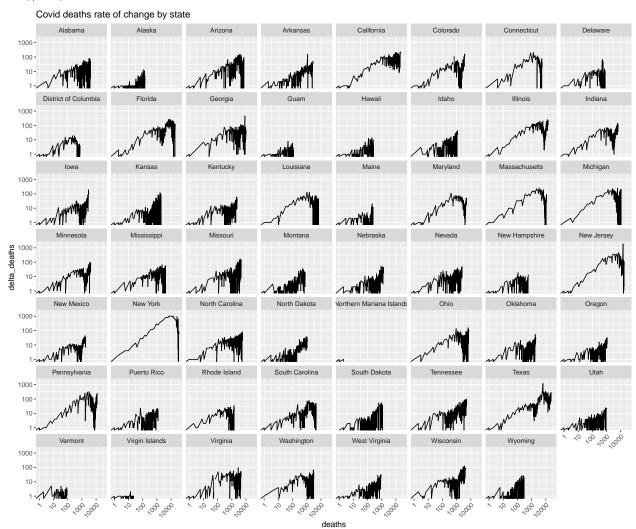
Log of Change Over Cumulative Sum

Linear values are skewed by higher-magnitude values, so use a log(10) on each axis. this better fits the exponential nature of the data anyway.

Log/Log of Cases Over Cumulative Sum



Log/Log of Deaths over Cumulative Sum



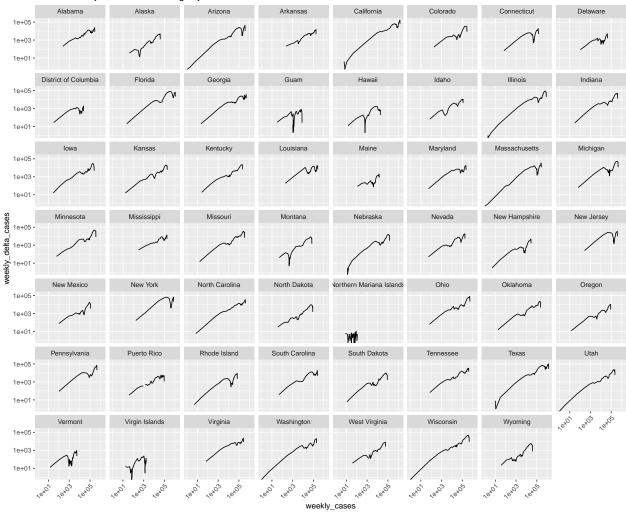
Weekly Rate of Changes

In order to smooth out the curves in the previous graphs, look at them on a weekly basis.

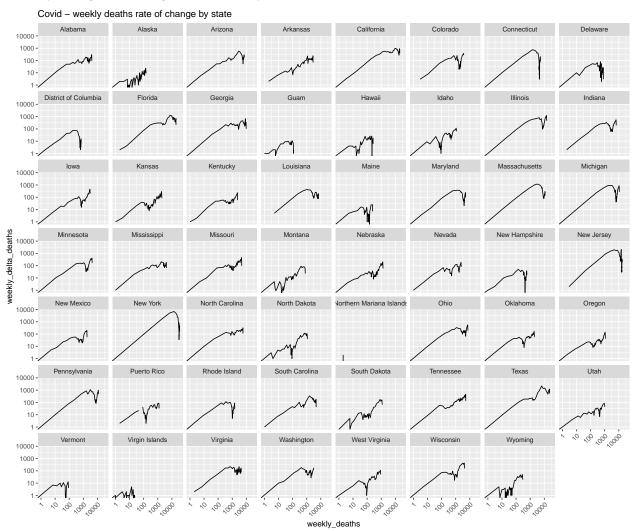
`summarise()` regrouping output by 'state' (override with `.groups` argument)

Weekly Range of Change of Cases by State

Covid – weekly cases rate of change by state



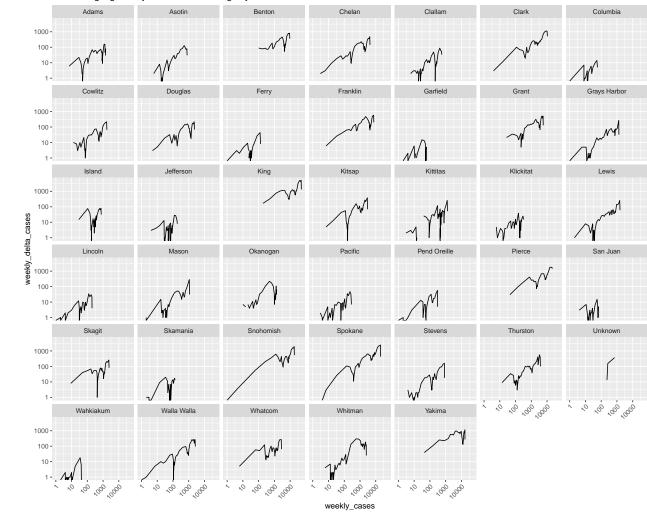
Weekly Range of Change of Deaths by State

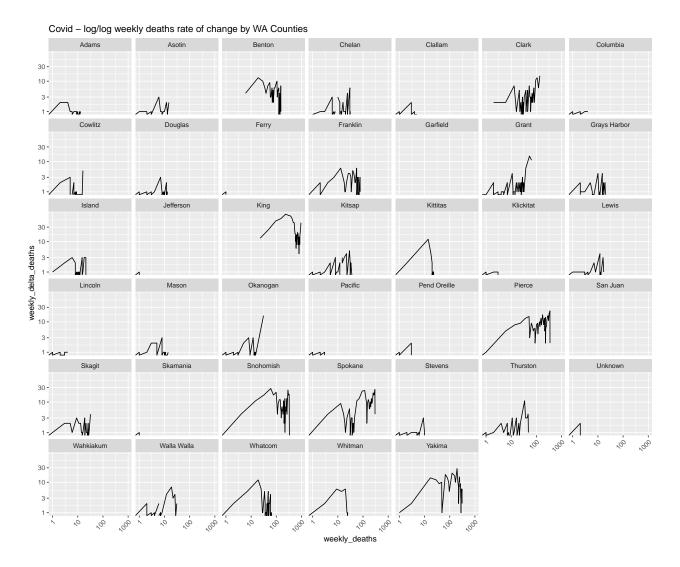


Washington Counties

`summarise()` regrouping output by 'county' (override with `.groups` argument)

Covid – log/log weekly cases rate of change by WA Counties





California Counties

`summarise()` regrouping output by 'county' (override with `.groups` argument)

Covid – log/log weekly cases rate of change by CA Counties

