

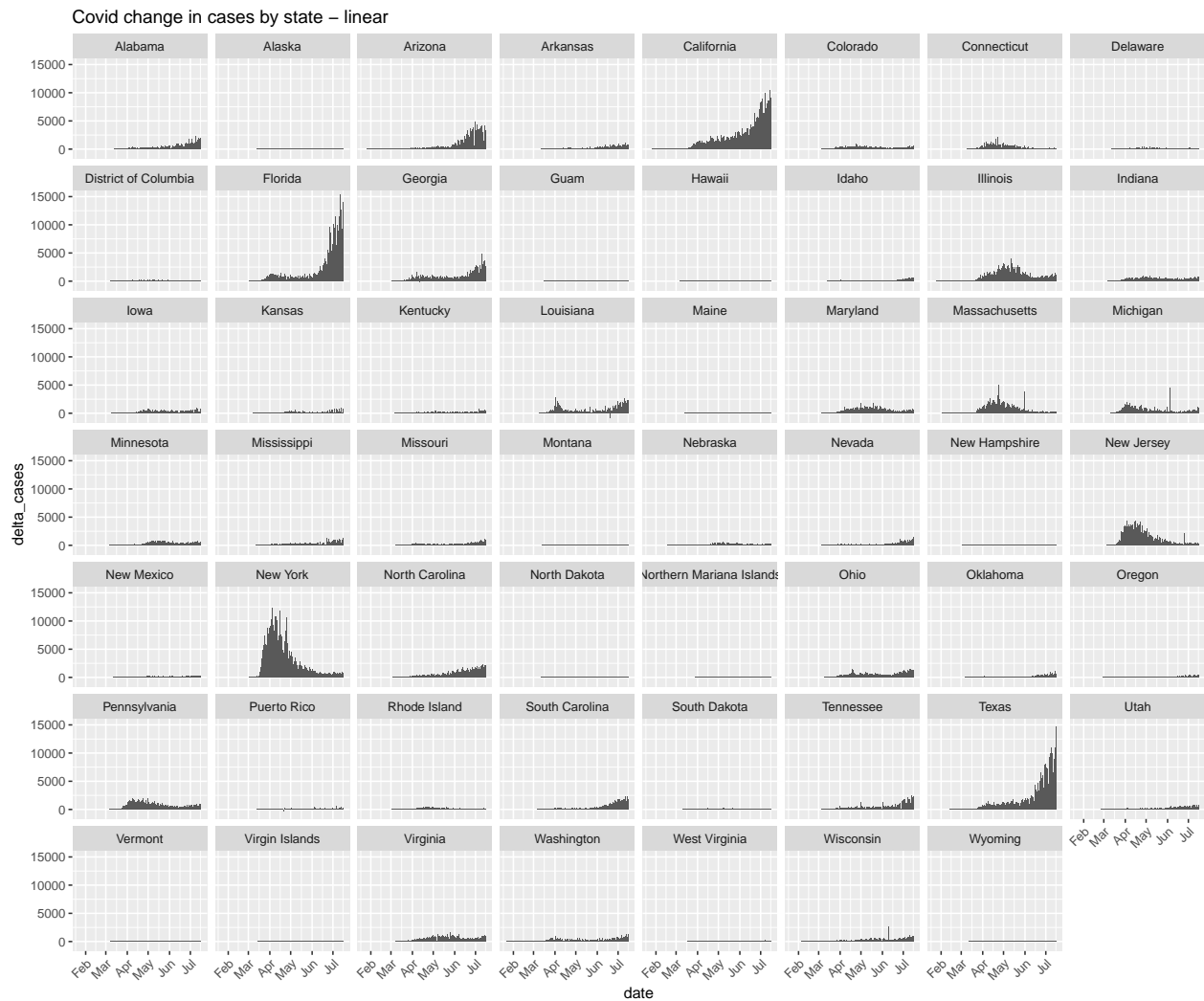
Change Analysis

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

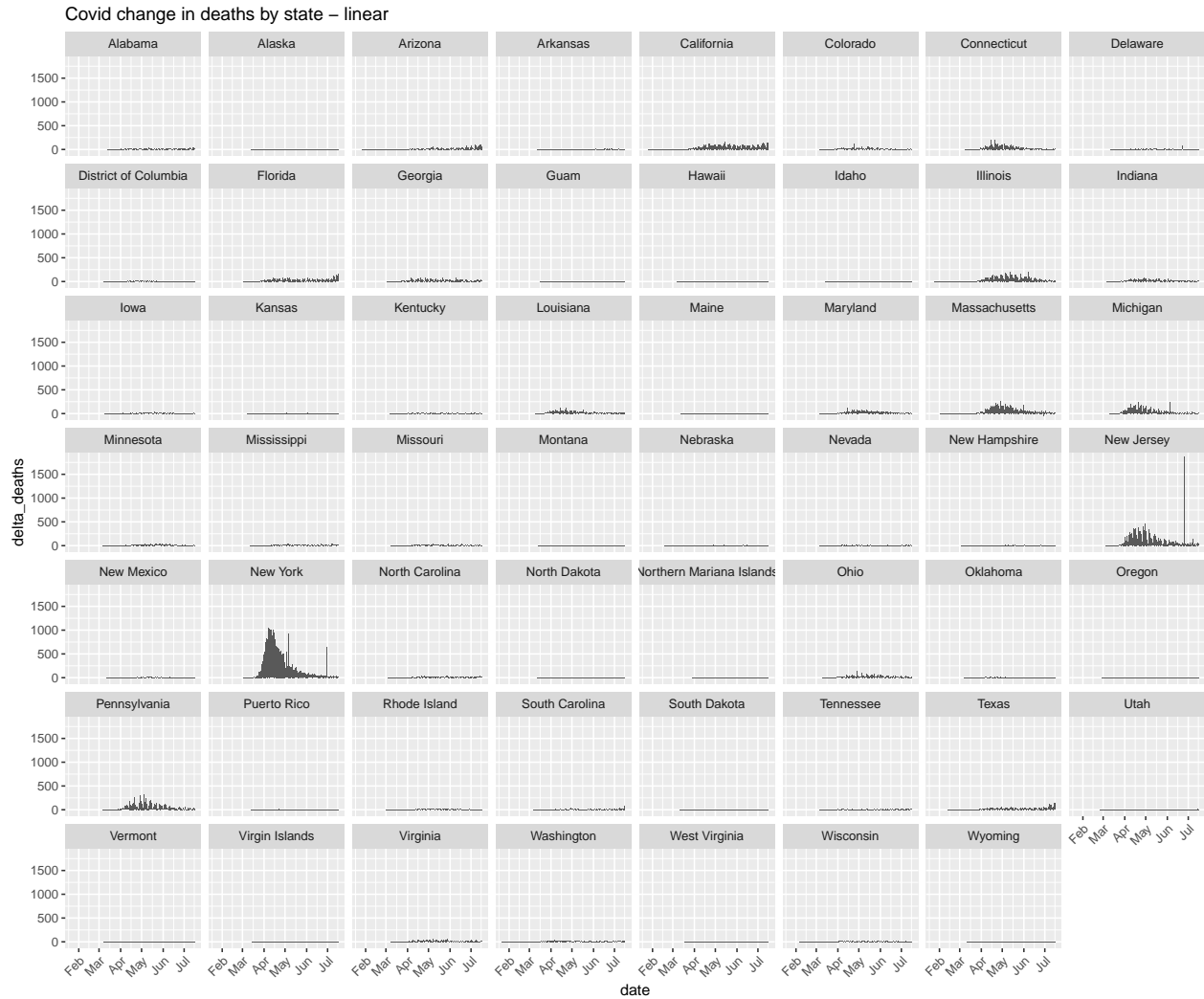
Last date for states data is 2020-07-16

Extract daily changes

Daily Cases



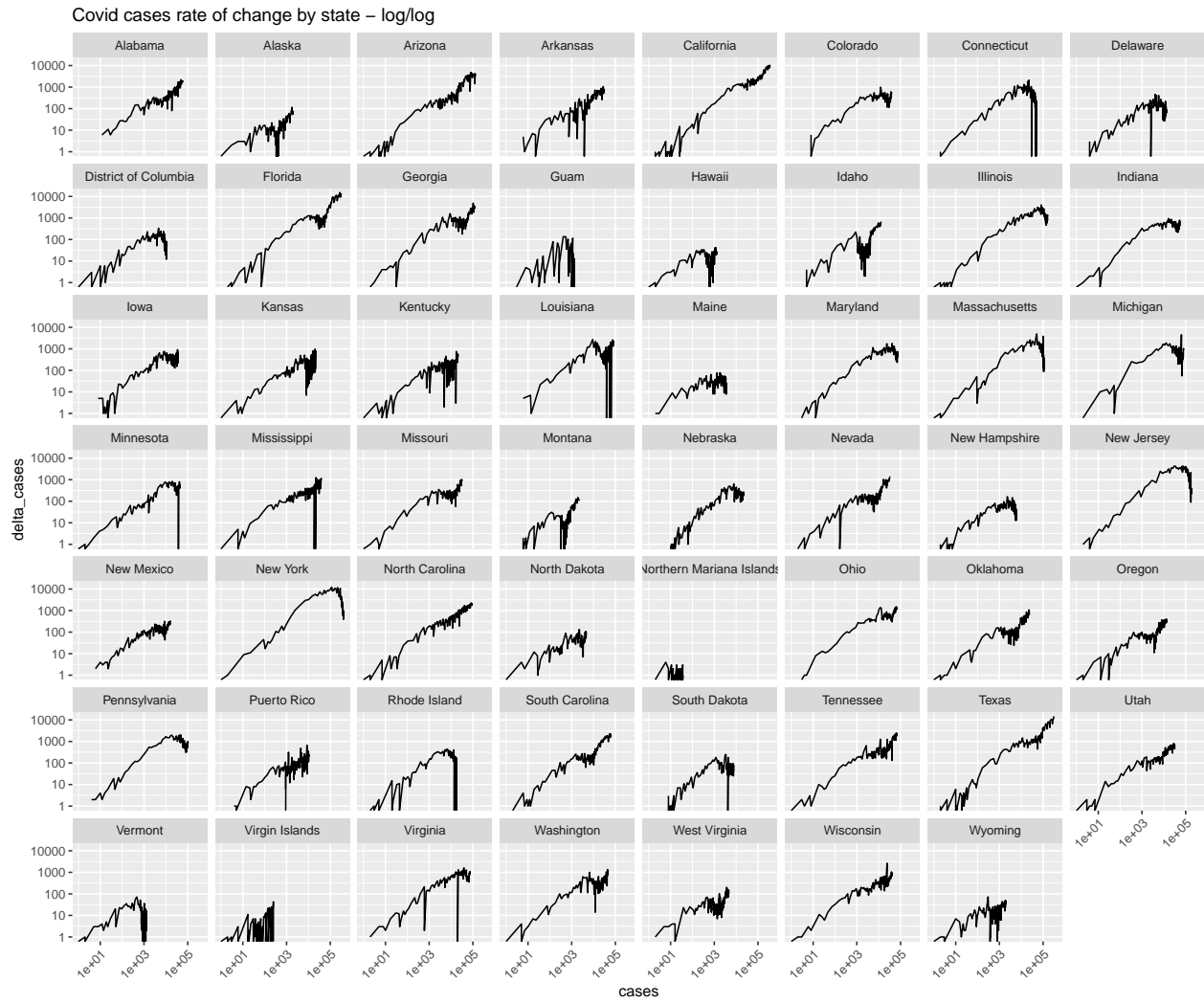
Daily Deaths



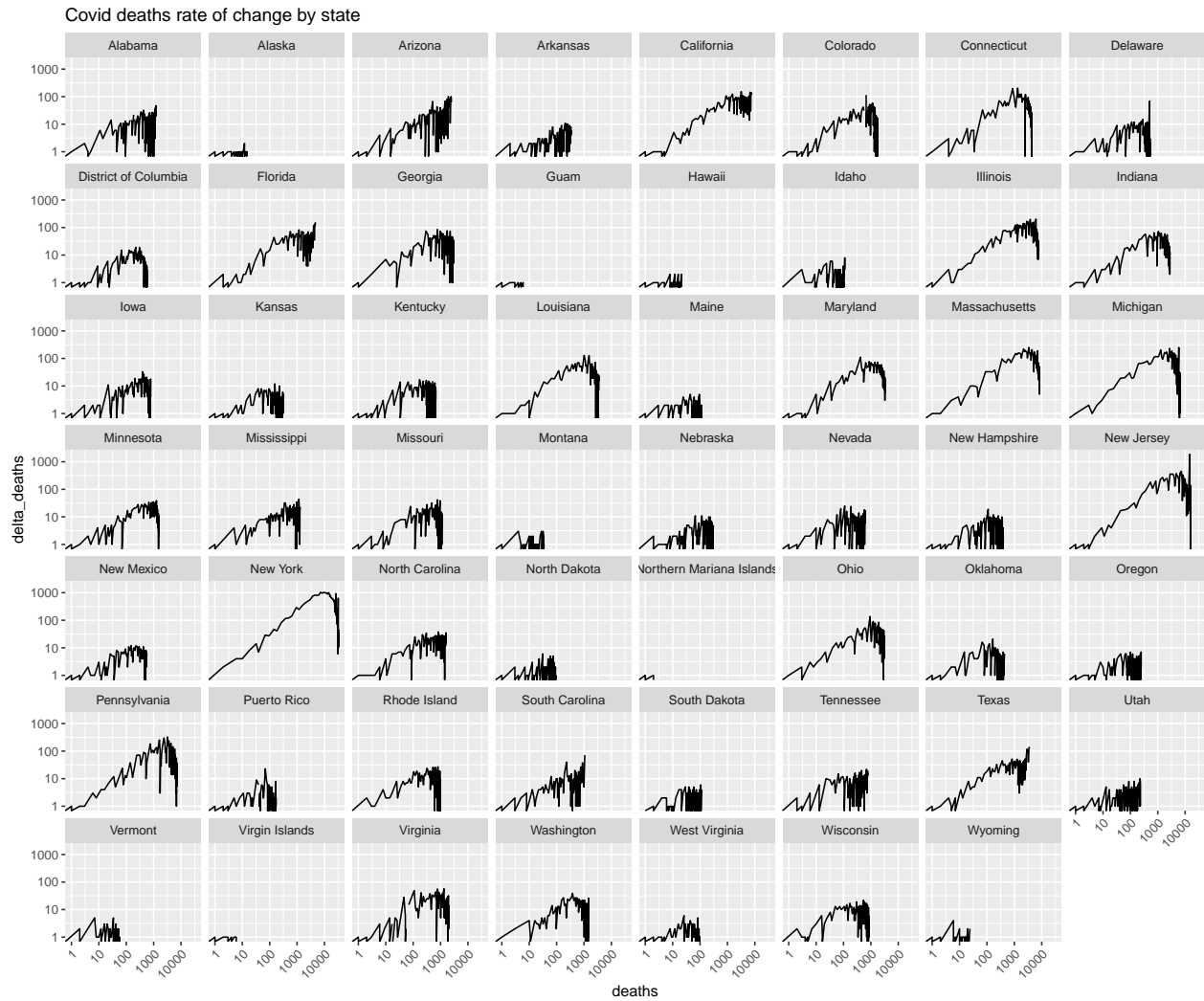
Log of Change Over Cumulative Sum

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



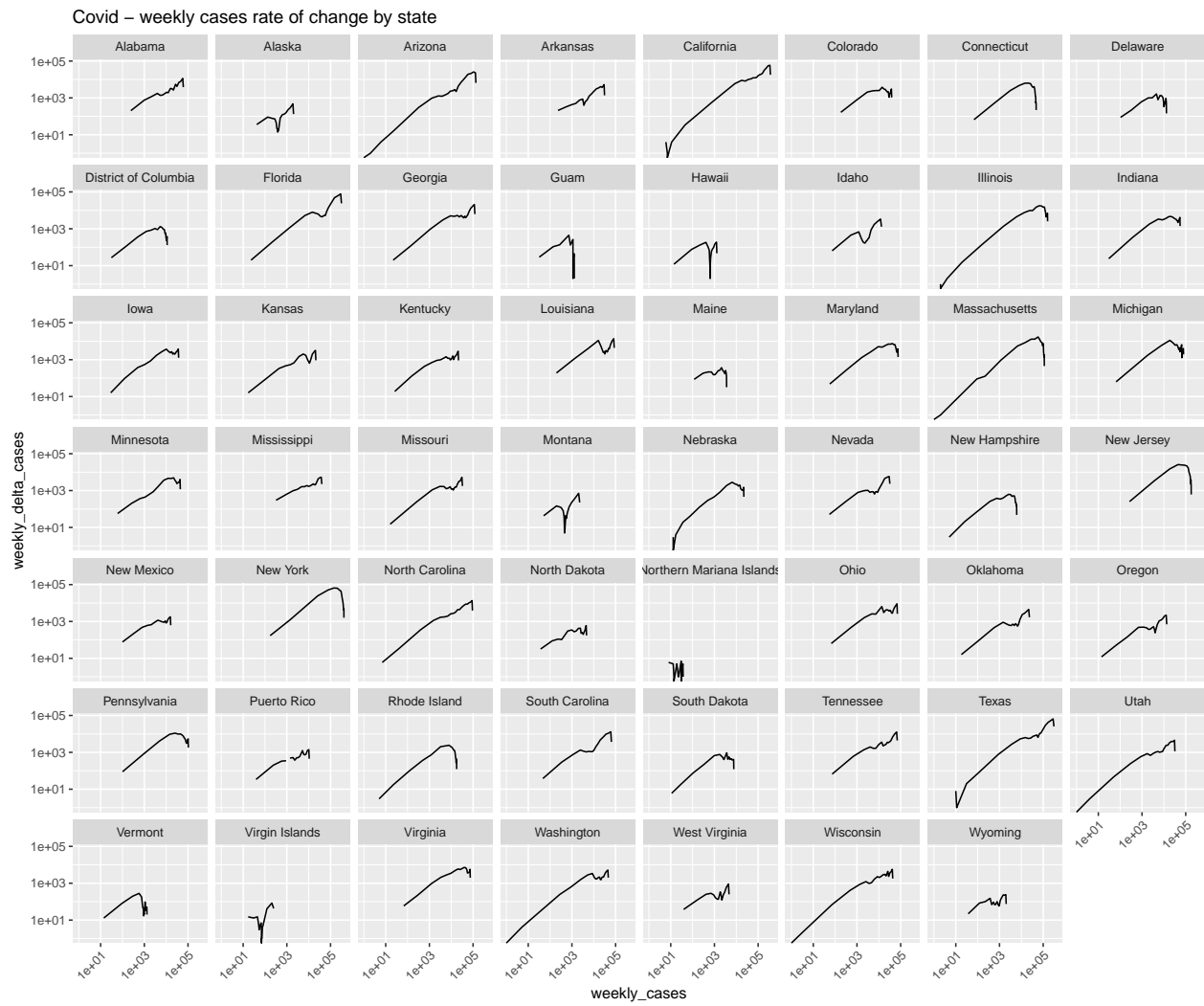
Log/Log of Deaths over Cumulative Sum



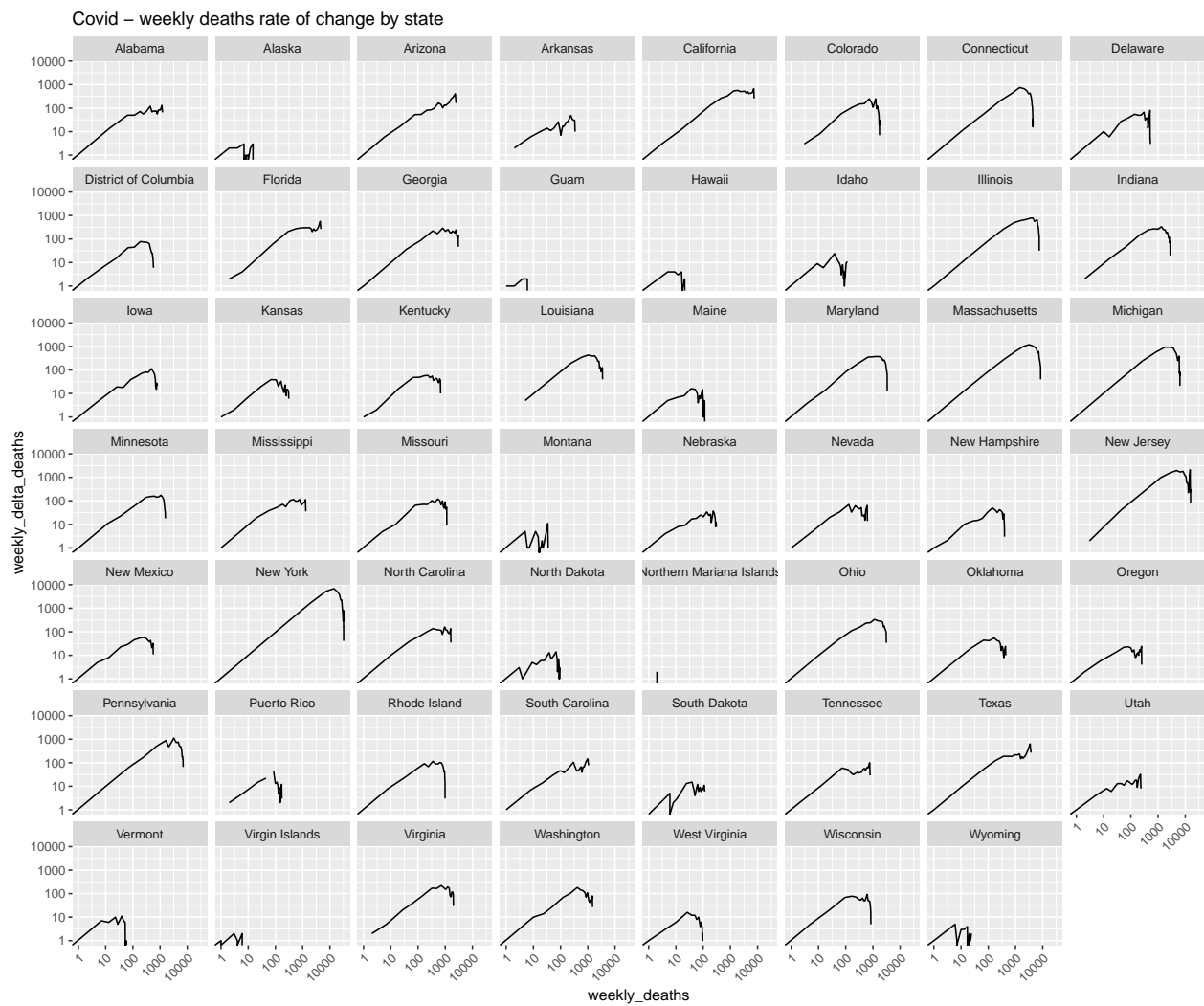
Weekly Rate of Changes

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

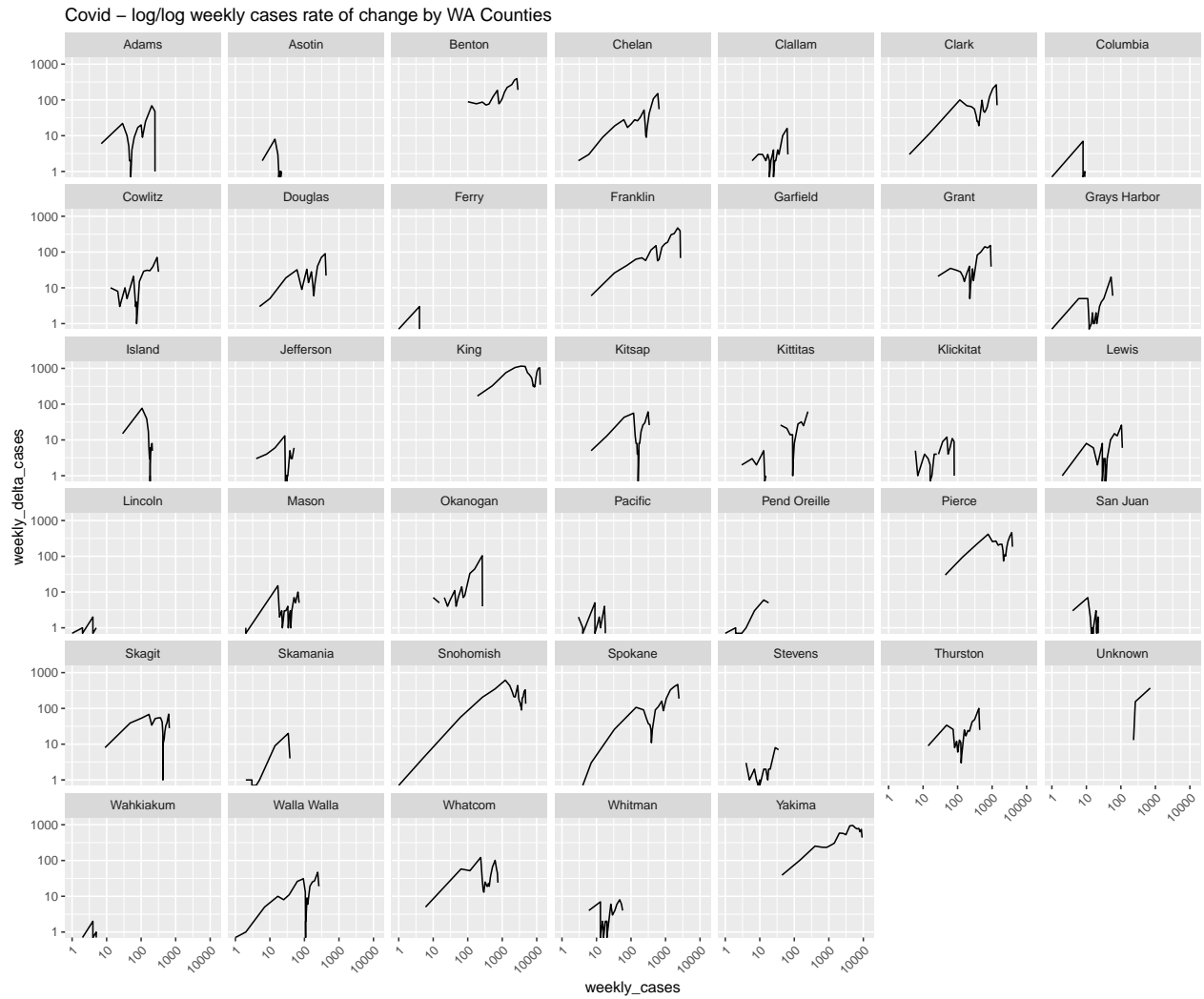
Weekly Range of Change of Cases by State



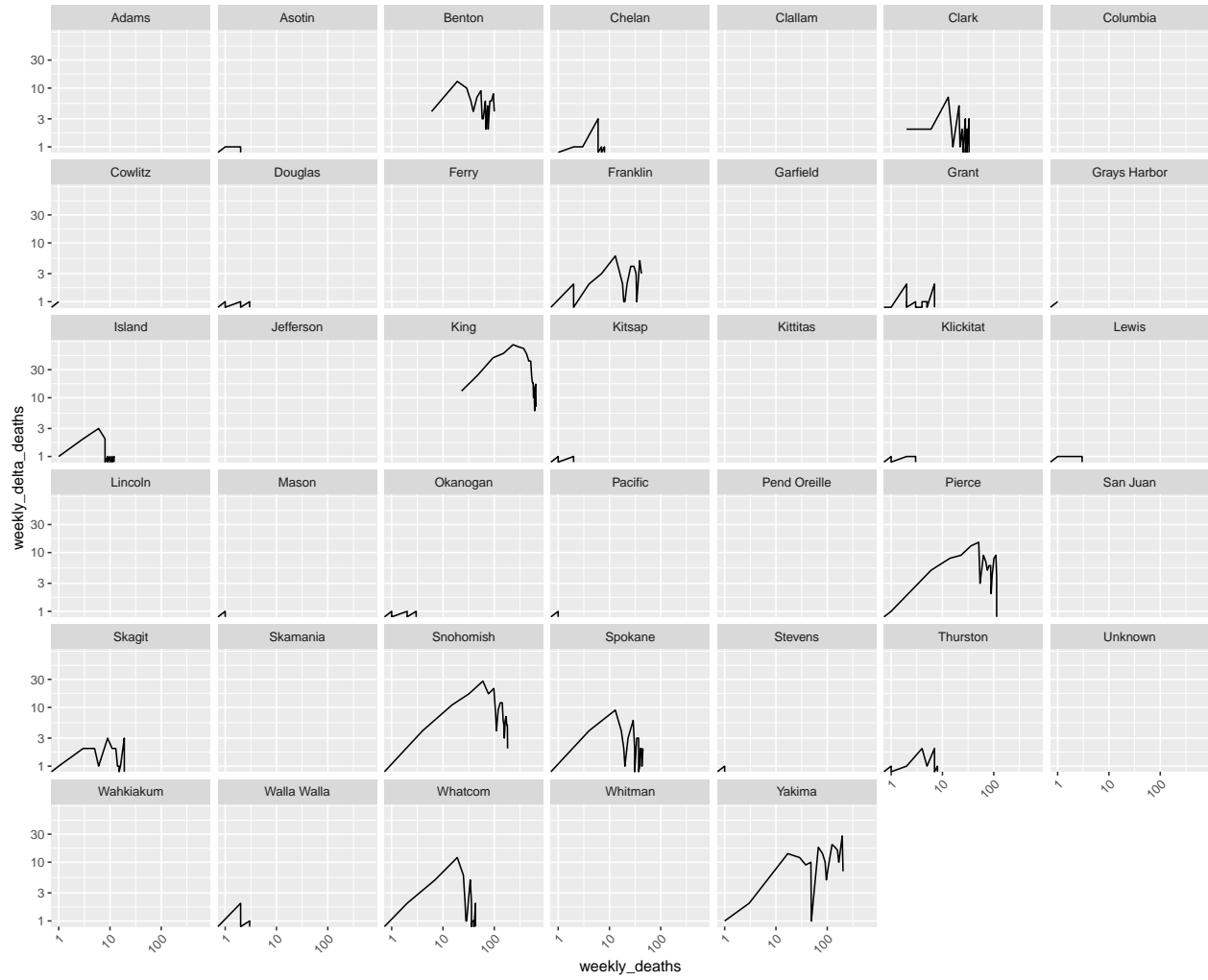
Weekly Range of Change of Deaths by State



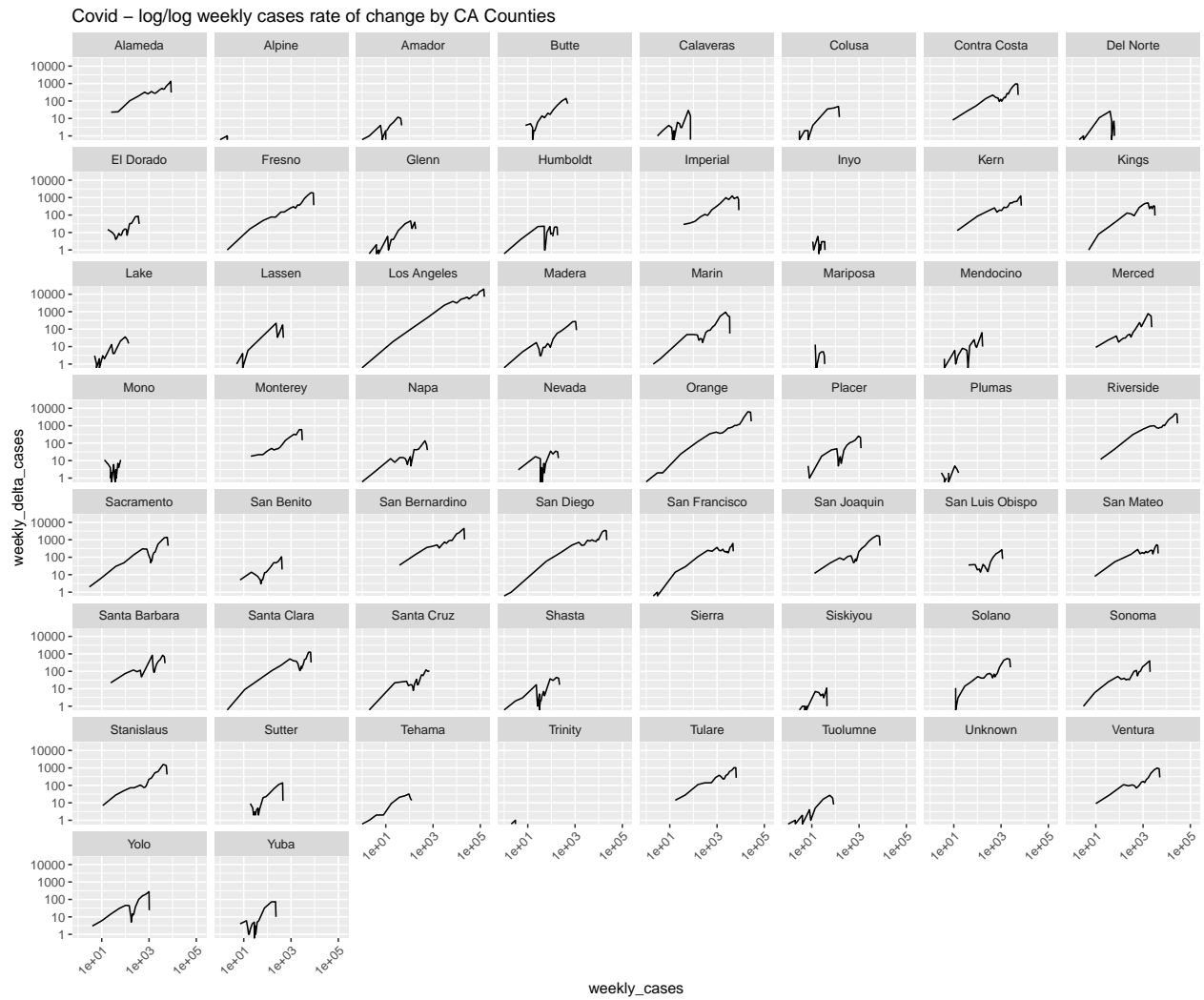
Washington Counties



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



California Counties



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

