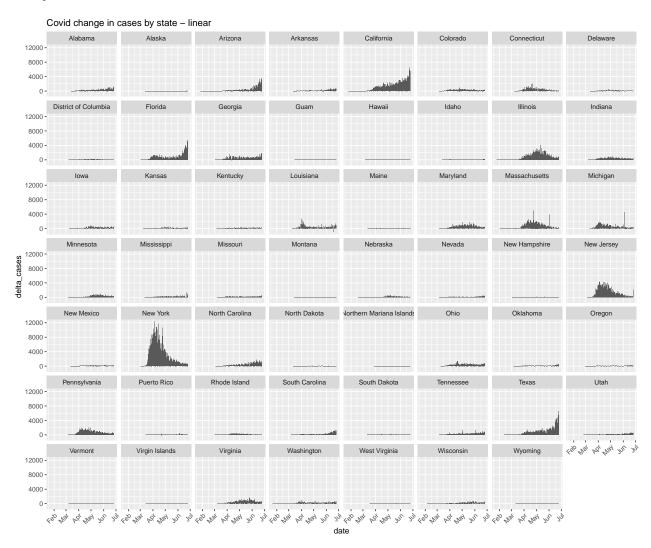
Change Analysis

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

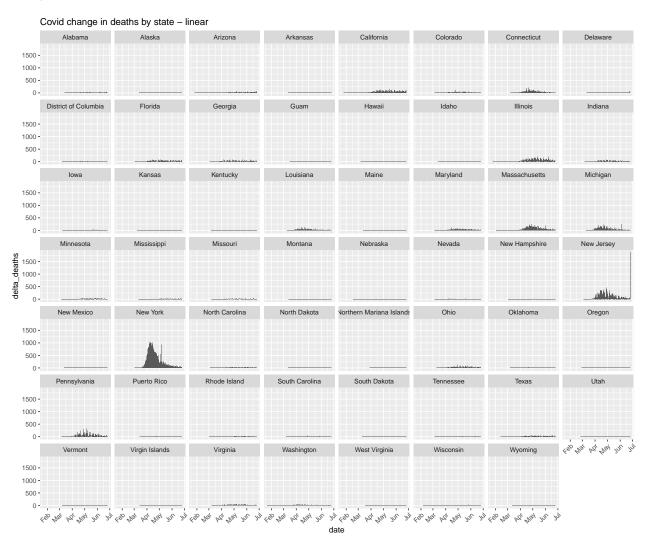
Last date for states data is 2020-06-25

Extract daily changes

Daily Cases



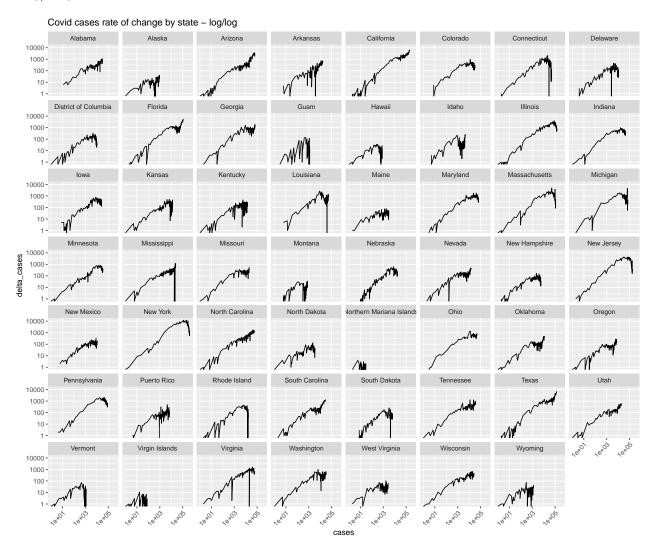
Daily Deaths



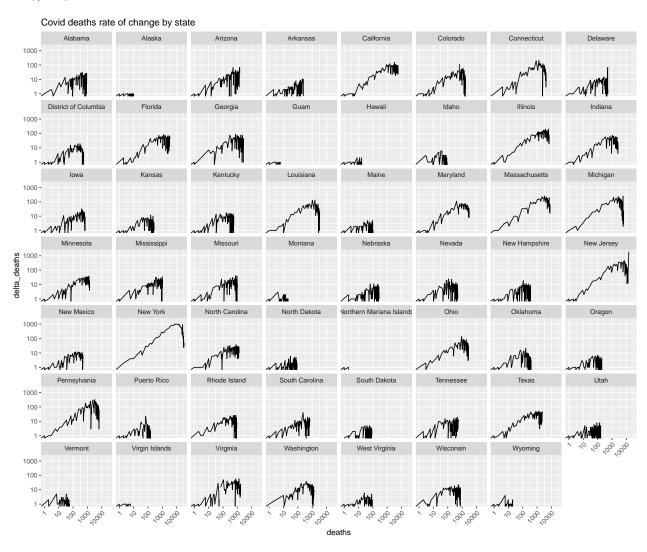
Log of Change Over Cumulative Sum

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



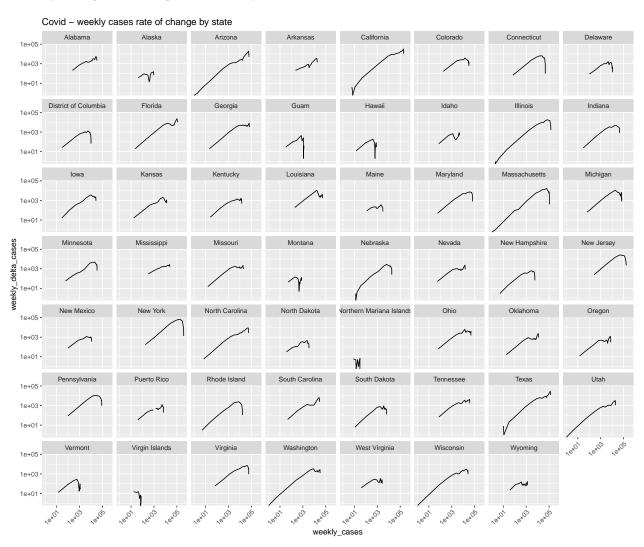
Log/Log of Deaths over Cumulative Sum



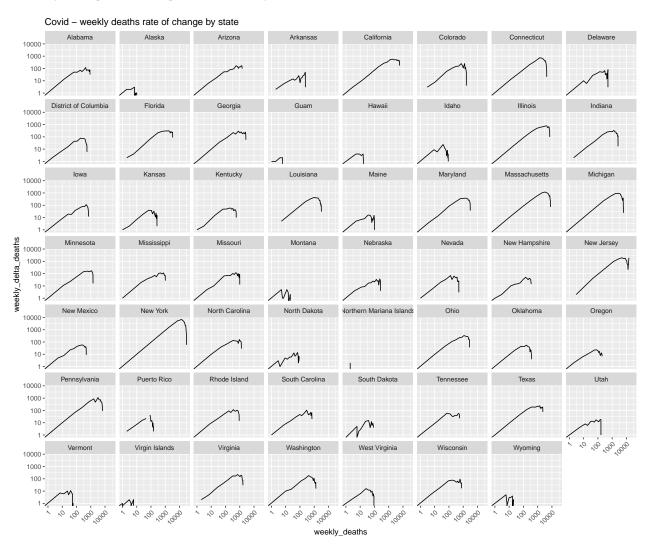
Weekly Rate of Changes

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

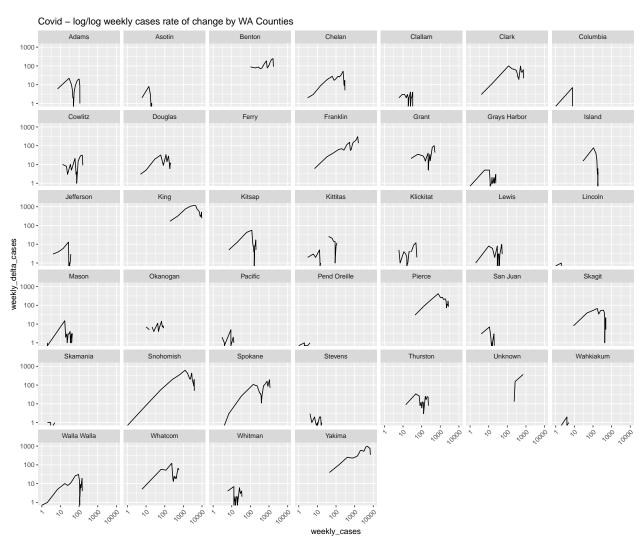
Weekly Range of Change of Cases by State

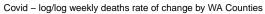


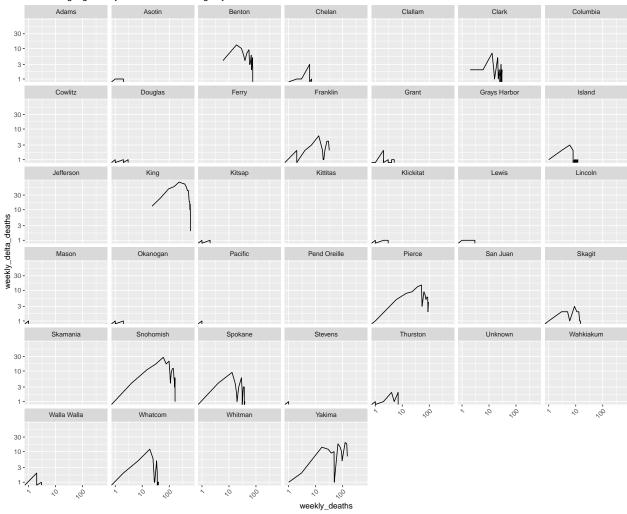
Weekly Range of Change of Deaths by State



Washington Counties







California Counties

Covid – log/log weekly cases rate of change by CA Counties Alameda Alpine Amador Colusa Contra Costa Del Norte 10000 -1000 -100 -10-Fresno El Dorado Glenn Humboldt Imperial Kings 10000 -1000 -100 -10νγ Los Angeles Lake Lassen Marin Mariposa Merced Mendocino 10000 -1000 -100 -M 10-Monterey Nevada Placer Plumas Napa Orange 10000 -1000 weekly_delta_cases 100 -10 -1 -Ŋ San Luis Obispo San Bernardino San Diego Riverside Sacramento San Benito San Francisco San Joaquin 10000 -1000 -100 -₩ 10-Santa Barbara Santa Clara Sierra Solano San Mateo Santa Cruz Shasta Siskiyou 10000 -1000 -100 -10 -1-Tehama Trinity Tulare Tuolumne Unknown Sonoma Stanislaus Sutter 10000 -1000 -100 -10 -Ventura Yolo 10000 -1000 -100 -10 weekly_cases

