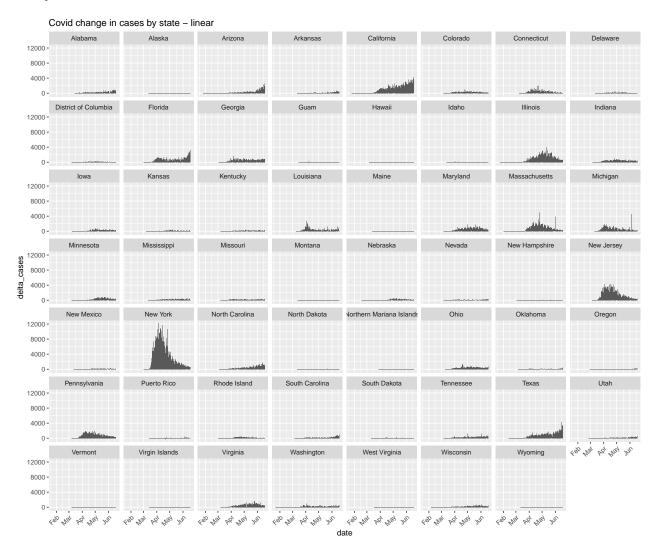
Change Analysis

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

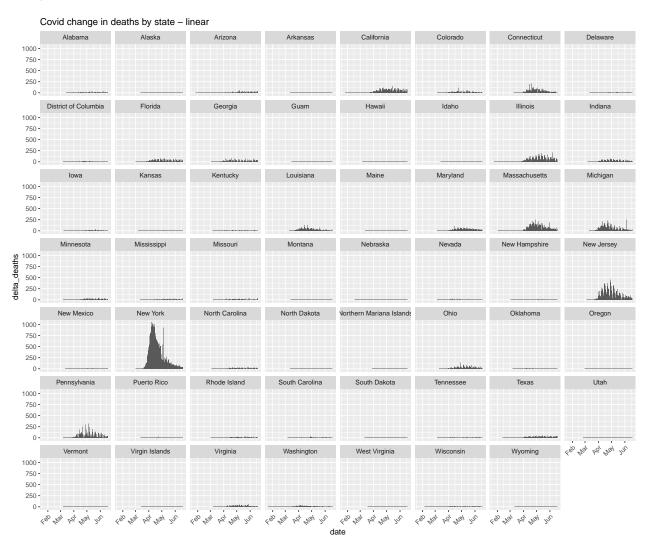
Last date for states data is 2020-06-18

Extract daily changes

Daily Cases



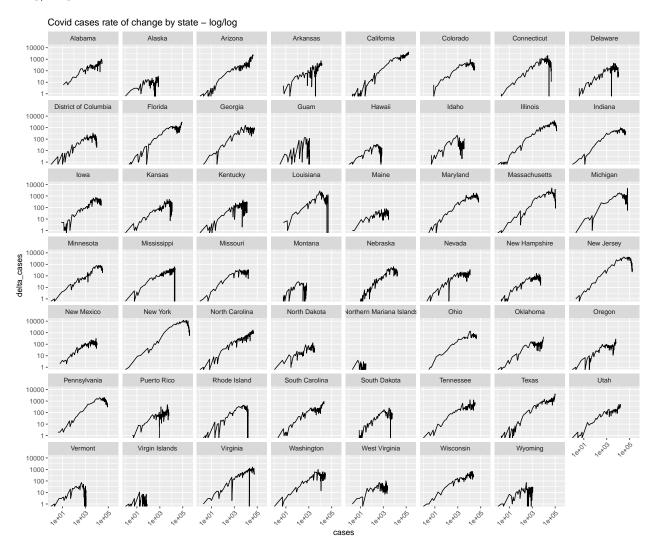
Daily Deaths



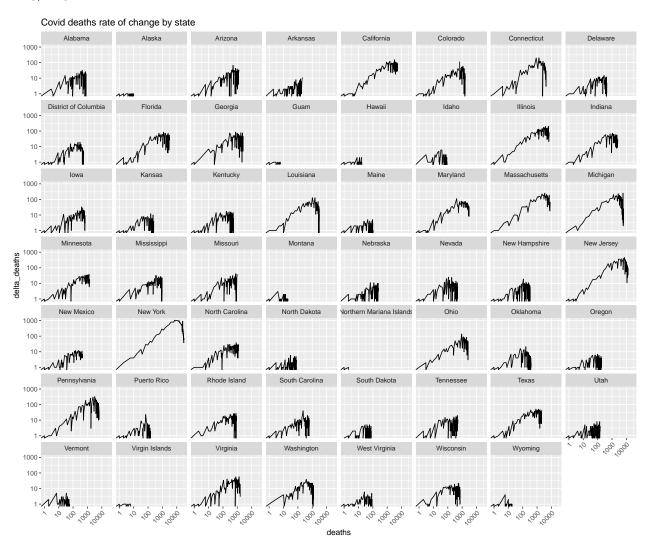
Log of Change Over Cumulative Sum

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



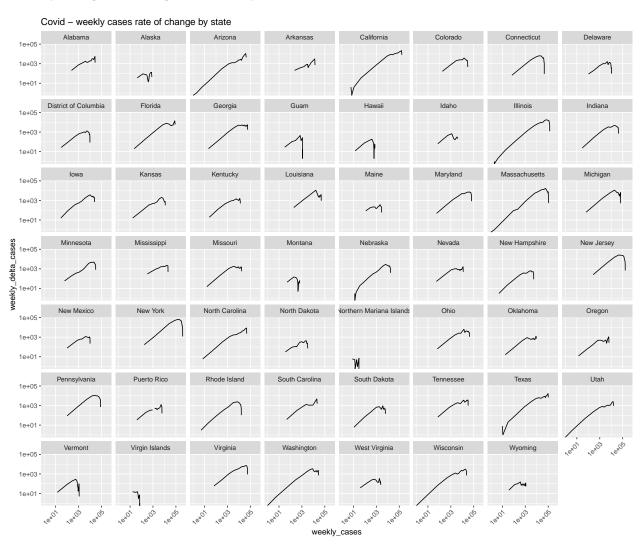
Log/Log of Deaths over Cumulative Sum



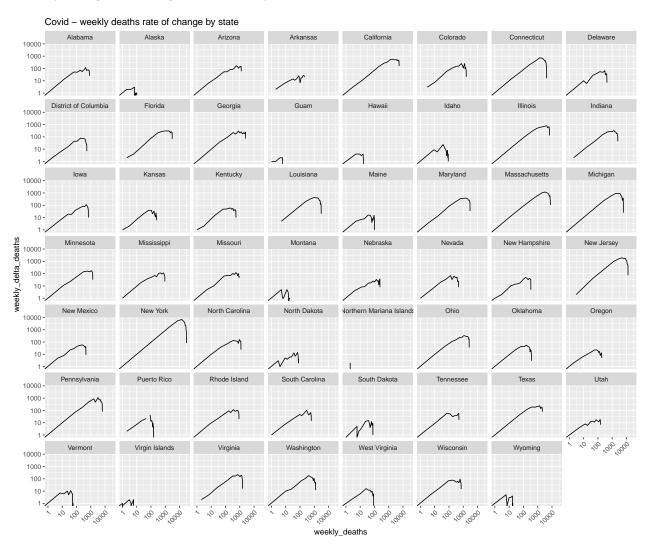
Weekly Rate of Changes

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

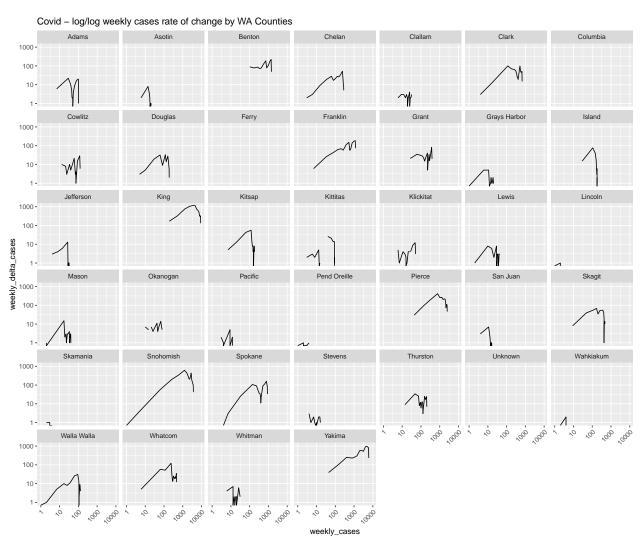
Weekly Range of Change of Cases by State

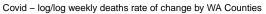


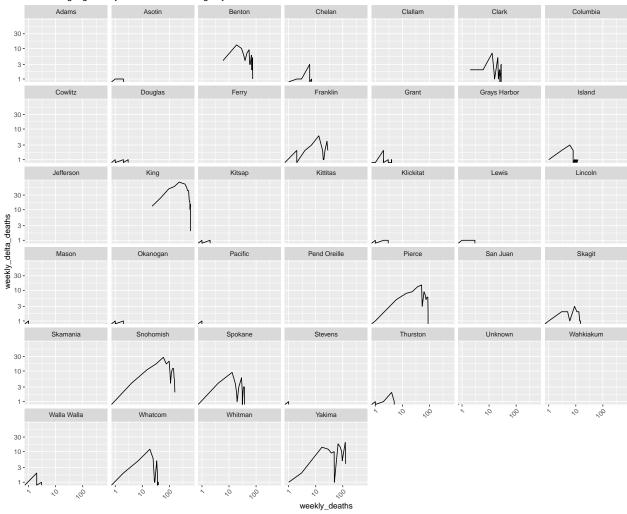
Weekly Range of Change of Deaths by State



Washington Counties







California Counties

Covid - log/log weekly cases rate of change by CA Counties Alameda Amador Colusa Contra Costa Del Norte Alpine 10000 -1000 -100 -10 -Fresno Imperial El Dorado Glenn Humboldt Kings 10000 -1000 -100 -10 -W ٧, Los Angeles Madera Marin Mariposa Merced 10000 -1000 -100 -10 -M 1 Monterey Plumas Mono Napa Orange 10000 -1000 weekly_delta_cases 10 -1-San Bernardino San Luis Obispo Riverside San Benito San Diego San Francisco San Joaquin Sacramento 10000 -1000 -100 -₩ 10 -Santa Clara San Mateo Santa Barbara Santa Cruz Shasta Sierra Siskiyou Solano 10000 -1000 -100 -10 -Sutter Trinity Tulare Tuolumne Unknown Sonoma Stanislaus 10000 -1000 -100 -10 -Ventura Yolo Yuba 10000 -1000 -100 -10 weekly_cases

