2009 H1N1 (swine flu pandemic) cases, deaths, and hospitalizations

Interpolated counts from Counts from Oct 2009 to March 2010

The CDC provided middle, low and high, estimate counts for the categories below for each month from Oct 2009 to March 2010.

Estimates starting from April 2009 (the beginning of the H1N1 pandemic) are not given, these were interpolated using spline estimation.



First case was reported on April 13, 2009 https://www.cdc.gov/mmwr/preview/mmwrhtml/mm5815a5.htm

2009 H1N1 (swine flu pandemic) cases, deaths, and hospitalizations

Interpolated counts from counts from Oct 2009 to March 2010

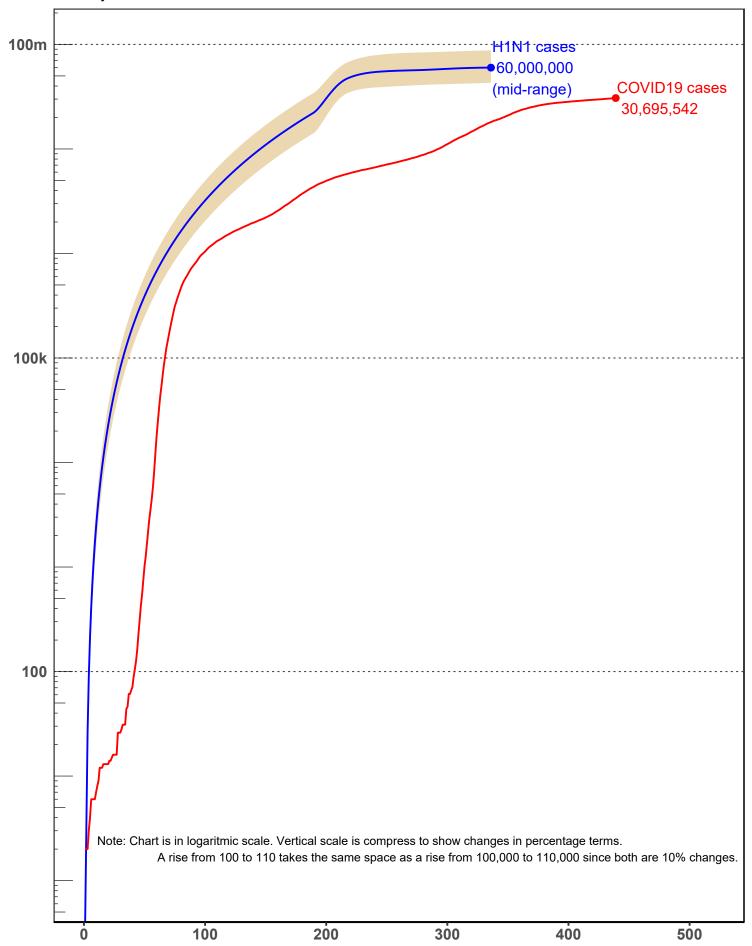
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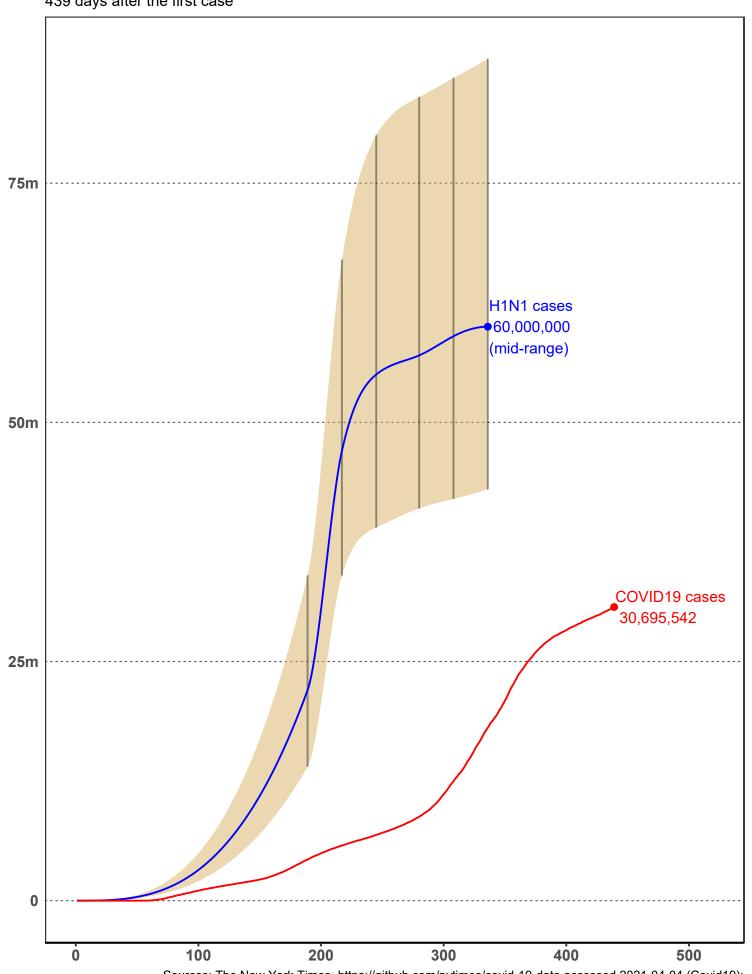
2009 H1N1 cumulative cases by day vs Covid-19

439 days after the first case



2009 H1N1 cumulative cases by day vs Covid-19

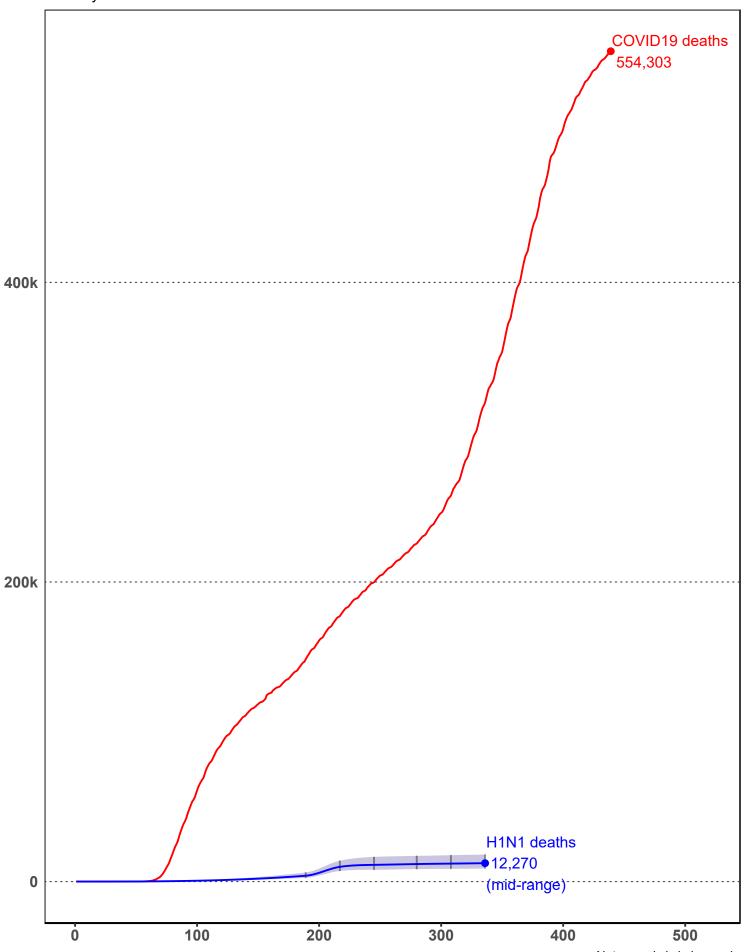
439 days after the first case



Sources: The New York Times, https://github.com/nytimes/covid-19-data accessed 2021-04-04 (Covid19); https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm (H1N1)

2009 H1N1 estimated deaths by day vs Covid-19 deaths

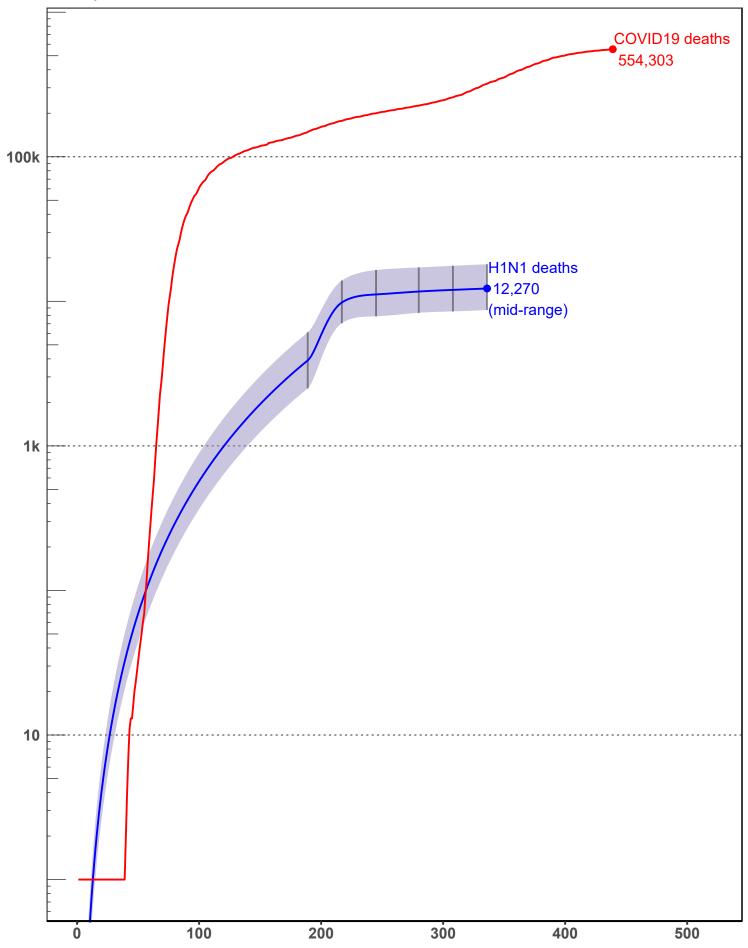
439 days after the first case



Note: y-axis is in log scale Sources: The New York Times, https://github.com/nytimes/covid-19-data accessed 2021-04-04 (Covid19); https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm (H1N1)

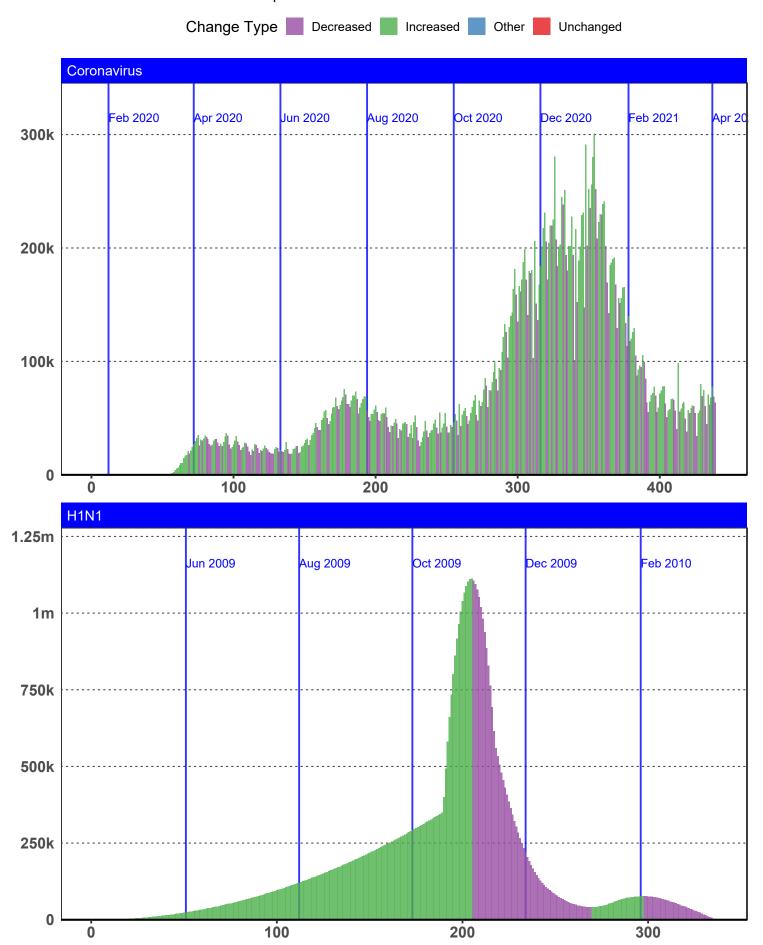
2009 H1N1 estimated deaths by day vs Covid-19 deaths

439 days after the first case



2009 H1N1 new cases by day vs Covid-19 cases

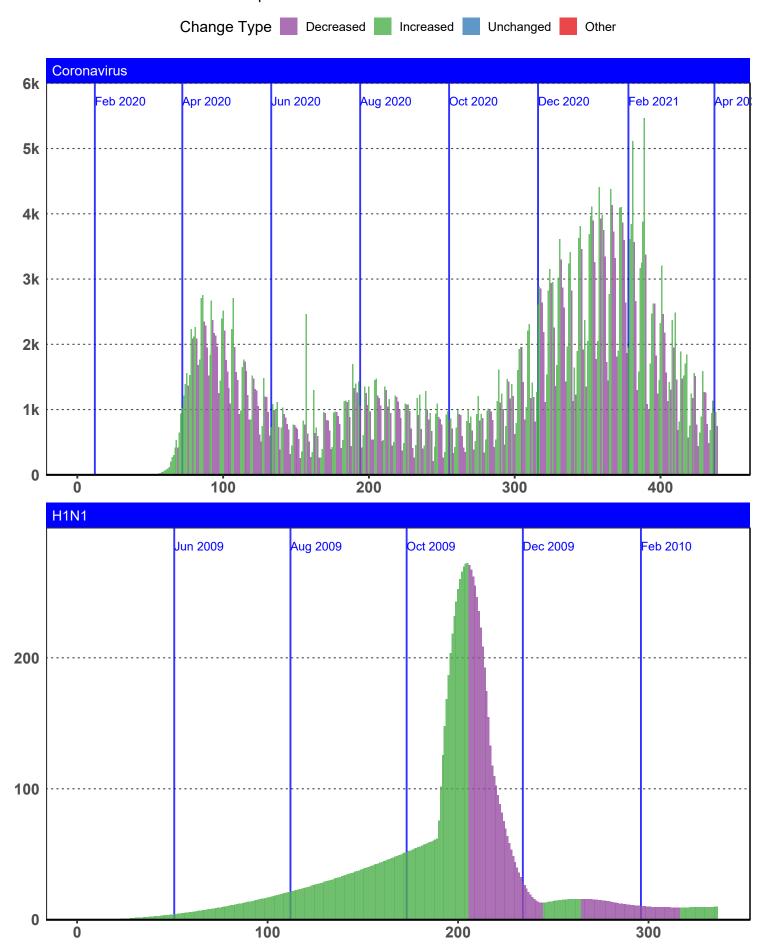
Vertical blue lines are for reference and placed every two months after the frst case for each pandemic



Sources: The New York Times, https://github.com/nytimes/covid-19-data accessed 2021-04-04 (Covid19); https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm (H1N1)

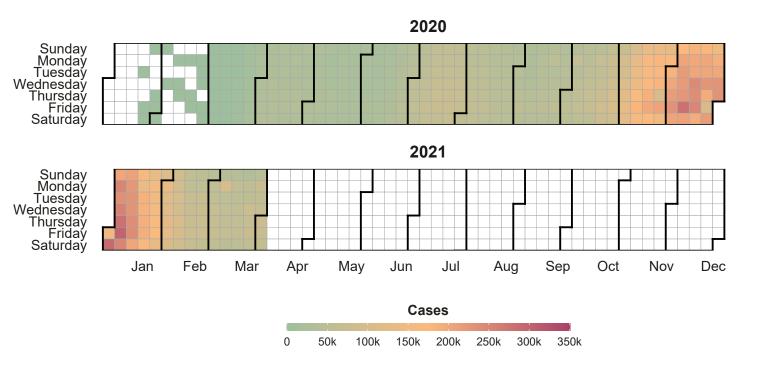
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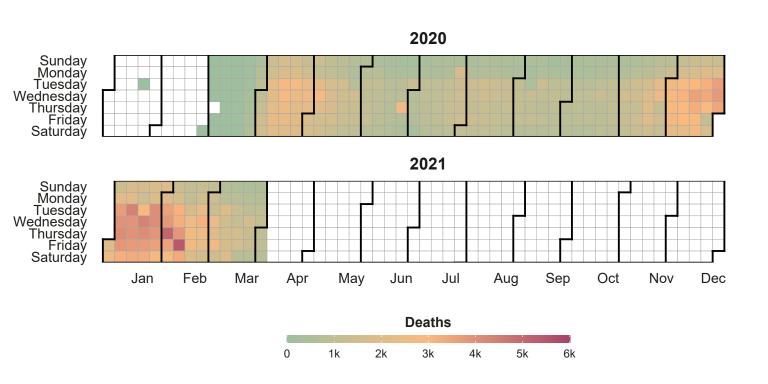


Sources: The New York Times, https://github.com/nytimes/covid-19-data accessed 2021-04-04 (Covid19); https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm (H1N1)

COVID-19 Cases in the US



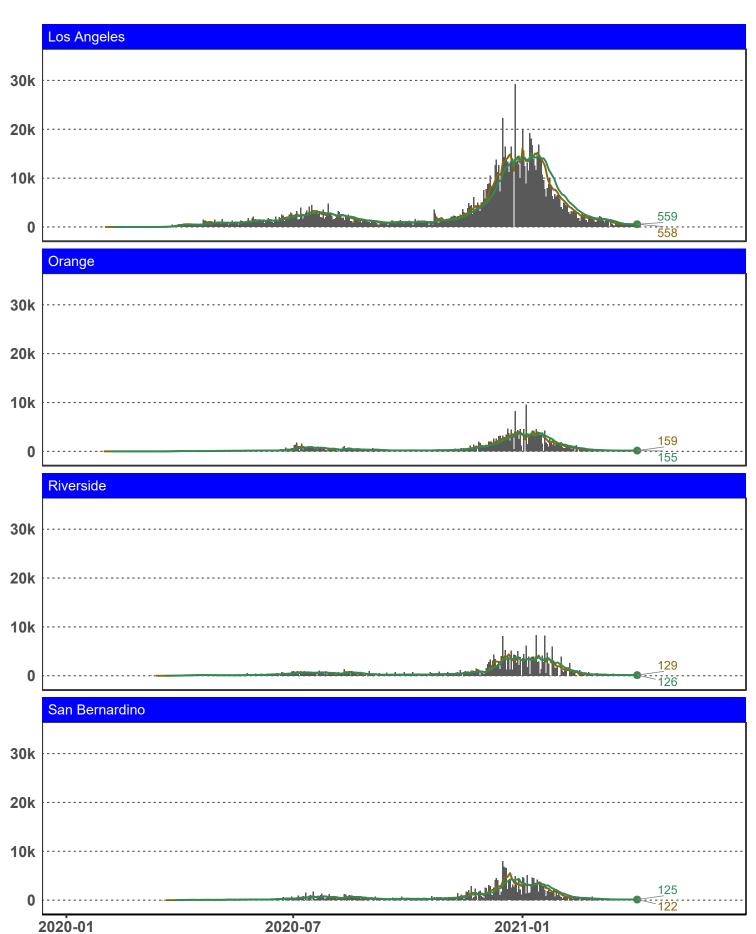
COVID-19 Deaths in the US



Rates by Counties

New cases, 7 and 14 days rolling average

variable ← rollingMean07Day ← rollingMean14Day



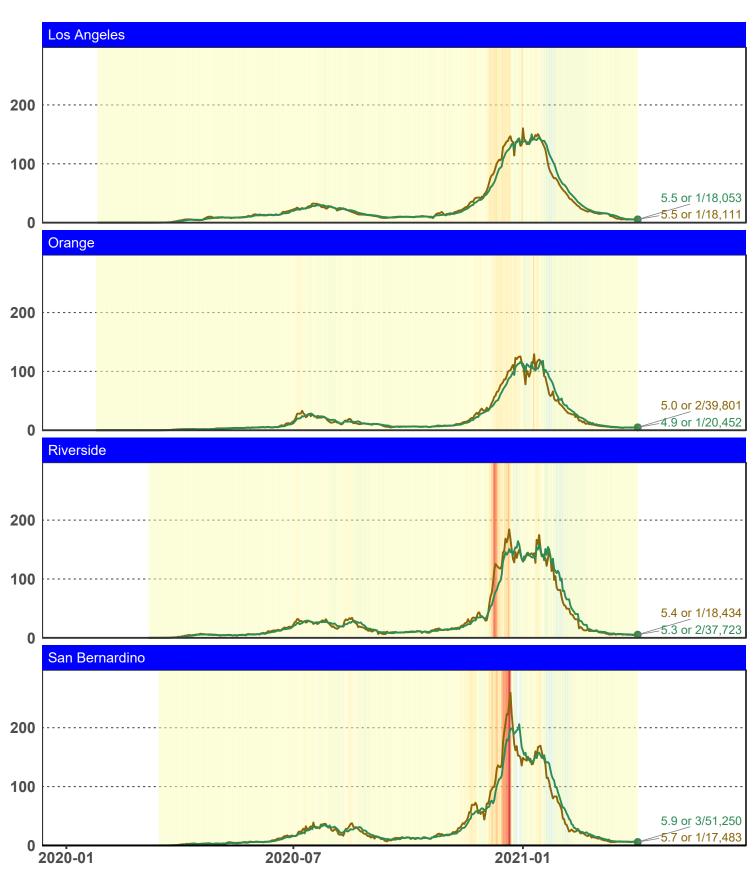
Sources: The New York Times, https://github.com/nytimes/covid-19-data accessed 2021-04-04 (Covid19)

Rates by Counties by 100K population

New cases, 7 and 14 days rolling average

Difference between 7 and 14 days rolling average -30 0 30 60

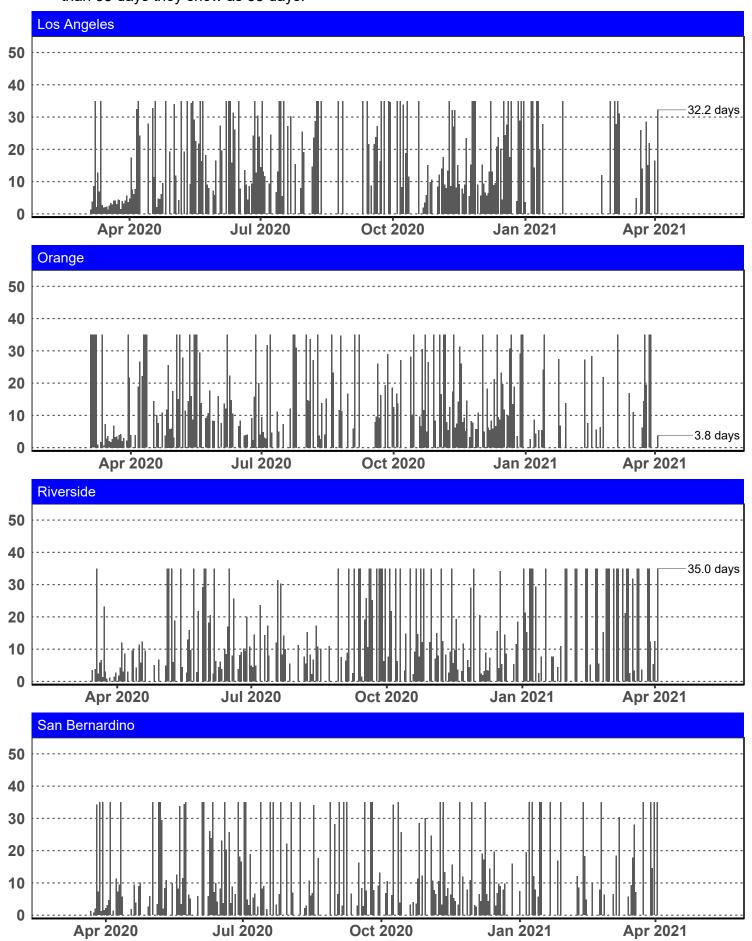
Rolling Average - 7-day - 14-day



Sources: The New York Times, https://github.com/nytimes/covid-19-data accessed 2021-04-04 (Covid19)

Days to double the number of cases

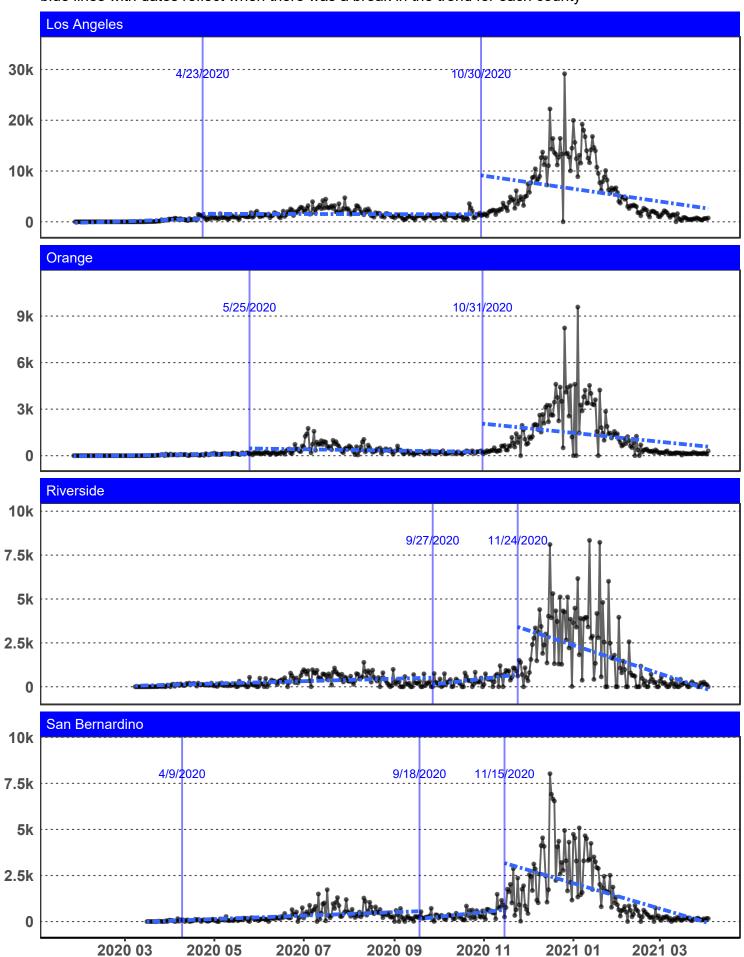
based on seven day rolling average of new cases, for counts increase only, if the counts double in more than 35 days they show as 35 days.



Sources: The New York Times, https://github.com/nytimes/covid-19-data accessed 2021-04-04 (Covid19)

Structural change analysis of daily new cases

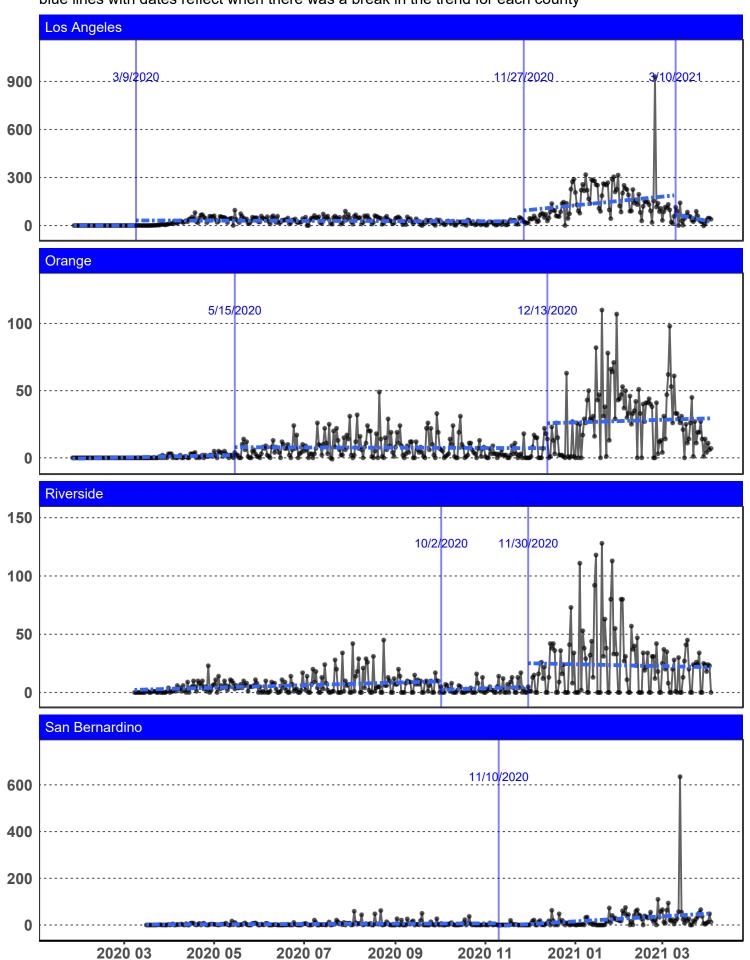
blue lines with dates reflect when there was a break in the trend for each county



Note: new break trends can developed as new daily counts are included. Sources: The New York Times, https://github.com/nytimes/covid-19-data accessed 2021-04-04 (Covid19)

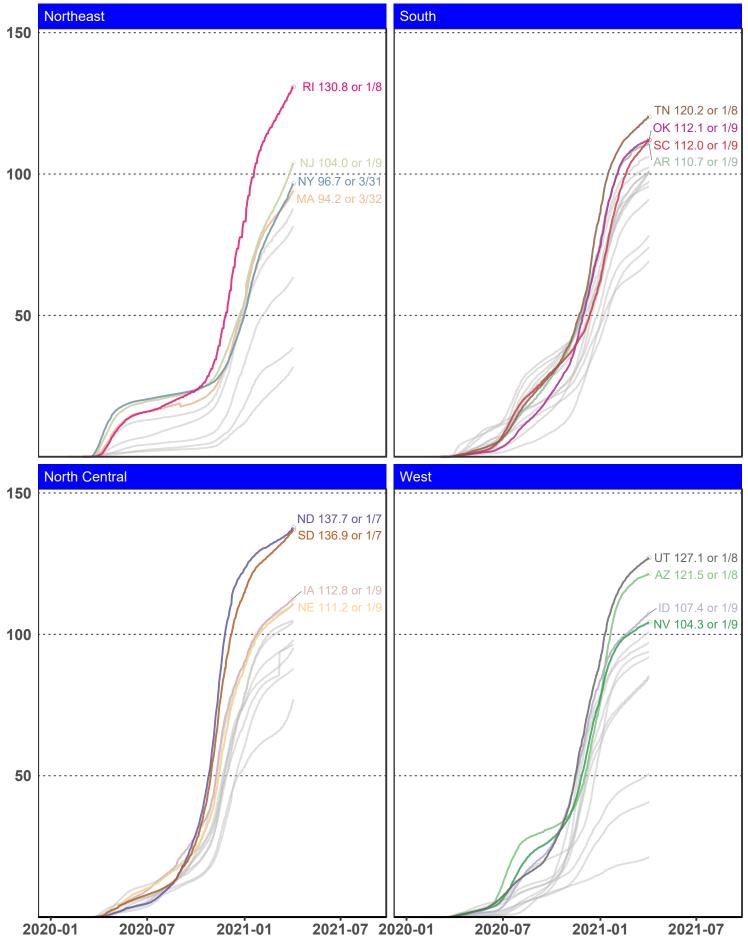
Structural change analysis of daily new deaths

blue lines with dates reflect when there was a break in the trend for each county



Cummulative cases per 1k persons by state region

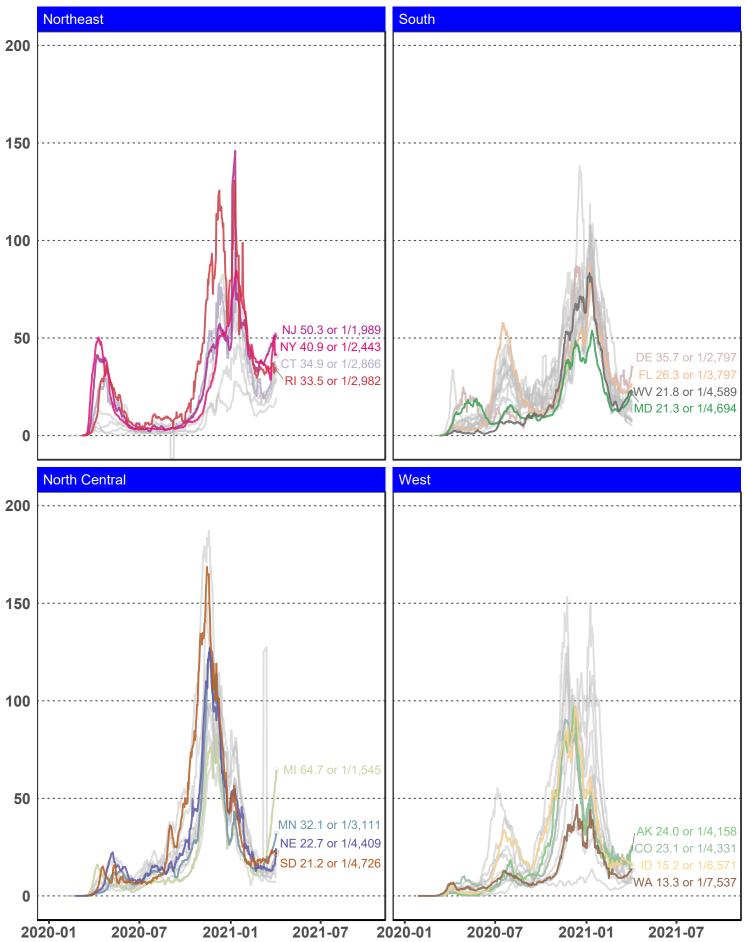
the four highest states by region are highlighted



Sources: The New York Times, https://github.com/nytimes/covid-19-data accessed 2021-04-04 (Covid19)
U.S. Census Bureau; American Community Survey, 2014-2018 5-year Estimates,
Table B01003_001 TOTAL POPULATION; generated with tidycensus R package.

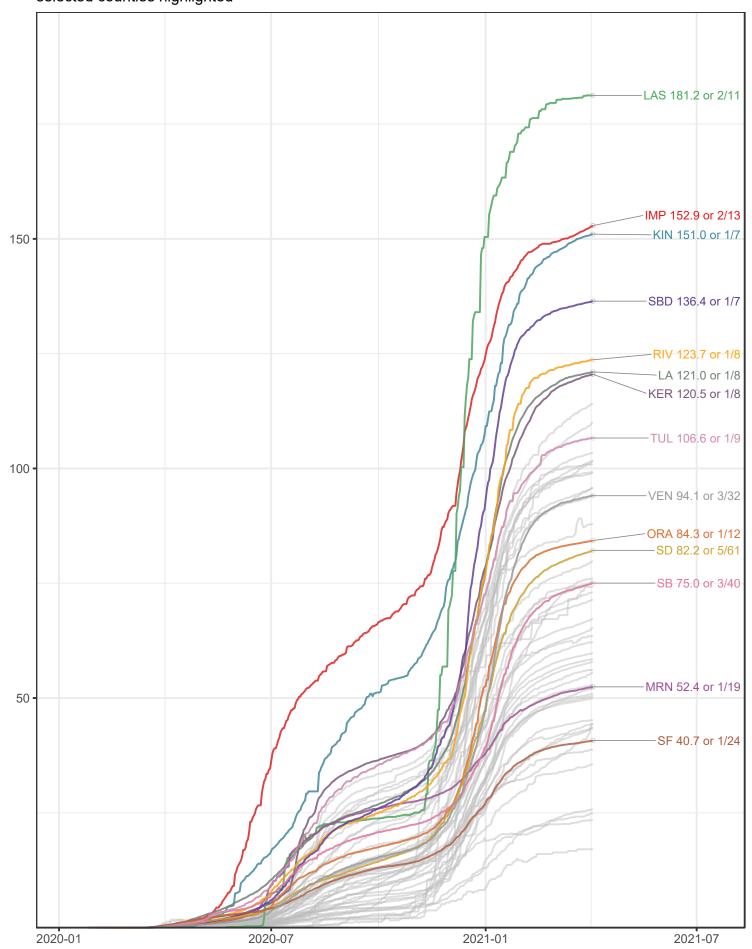
7-day rolling average of daily cases per 100k persons by state region

the four highest states by region are highlighted



Sources: The New York Times, https://github.com/nytimes/covid-19-data accessed 2021-04-04 (Covid19)
U.S. Census Bureau; American Community Survey, 2014-2018 5-year Estimates,
Table B01003_001 TOTAL POPULATION; generated with tidycensus R package.

Cummulative cases per 1k persons for California counties selected counties highlighted



7-day rolling average of daily cases per 100k persons by California counties selected counties highlighted

