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

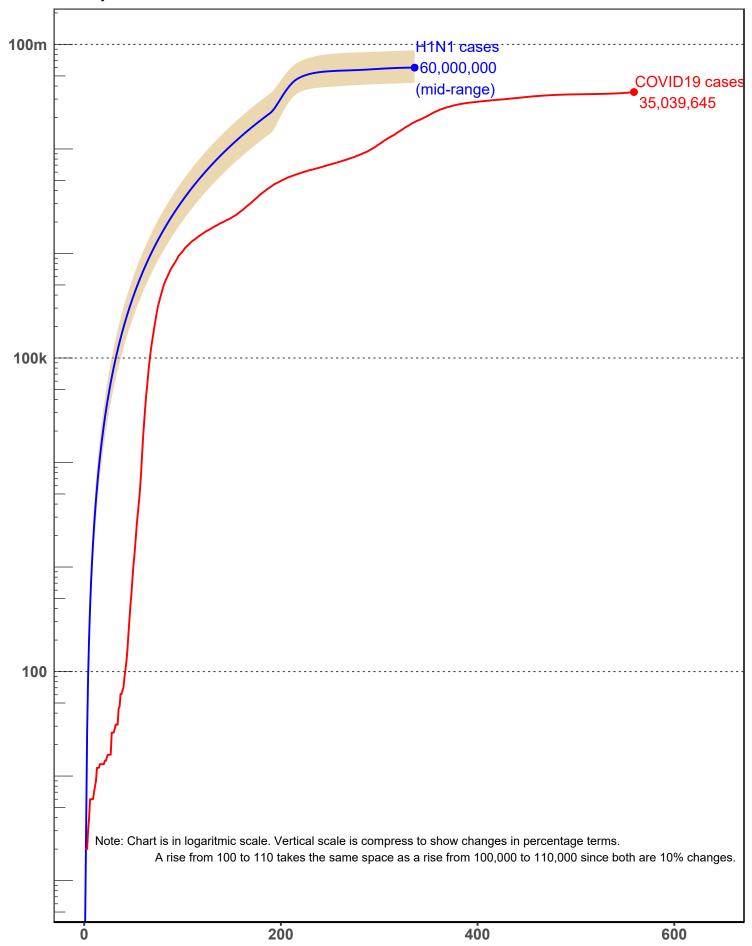
The CDC provided middle, low and high, estimate counts for the categories below for each month from Oct 2009 to March 2010.

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



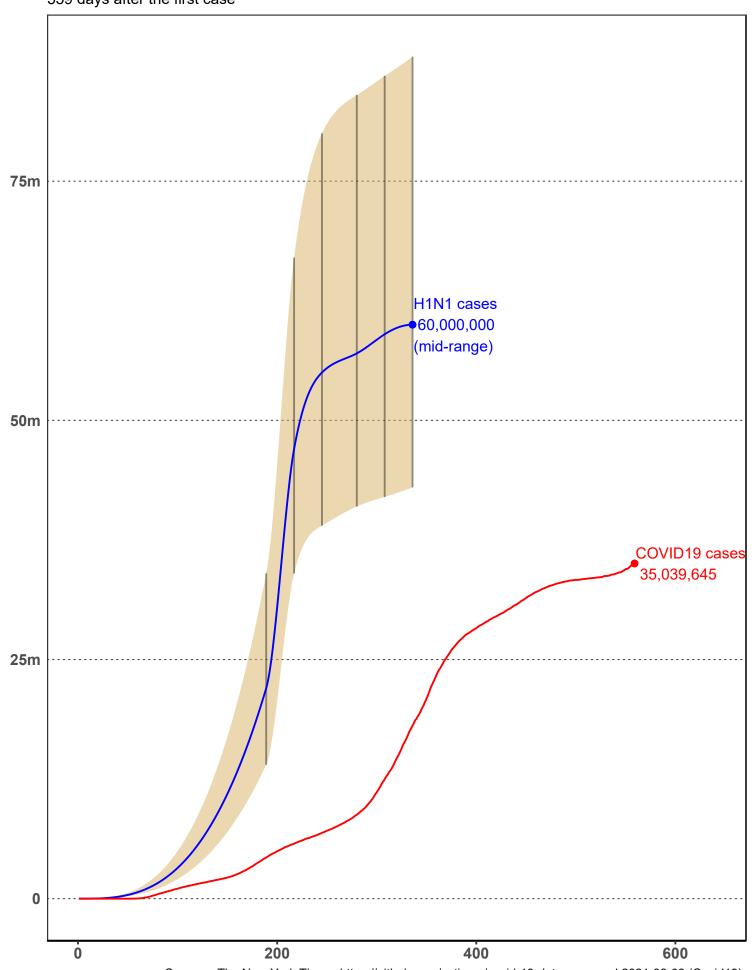
2009 H1N1 cumulative cases by day vs Covid-19

559 days after the first case



2009 H1N1 cumulative cases by day vs Covid-19

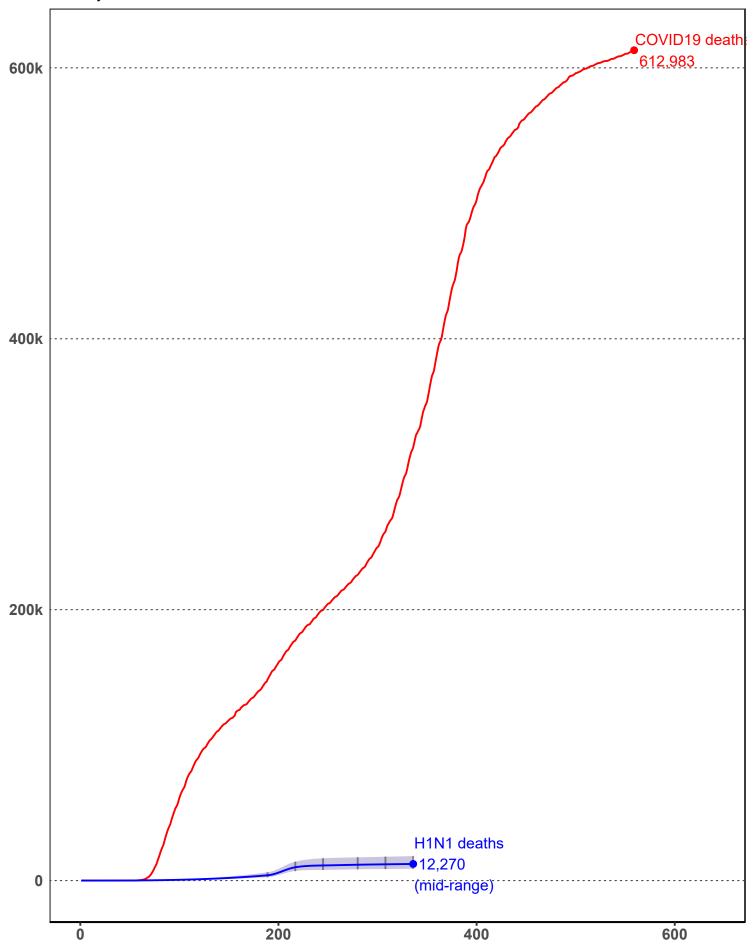
559 days after the first case



Sources: The New York Times, https://github.com/nytimes/covid-19-data accessed 2021-08-02 (Covid19); https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm (H1N1)

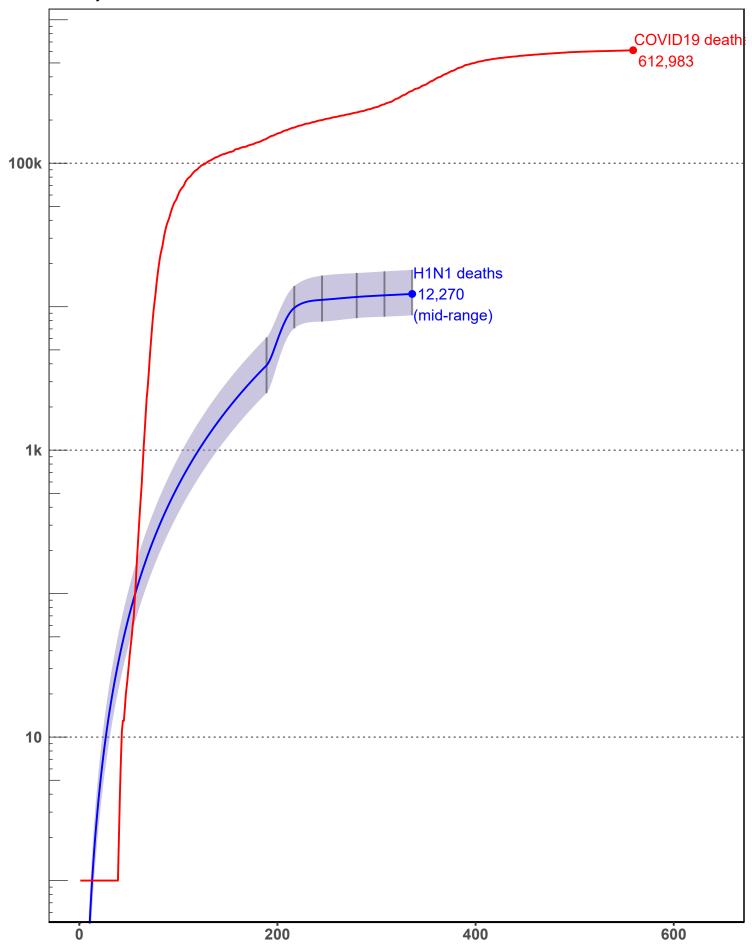
2009 H1N1 estimated deaths by day vs Covid-19 deaths

559 days after the first case



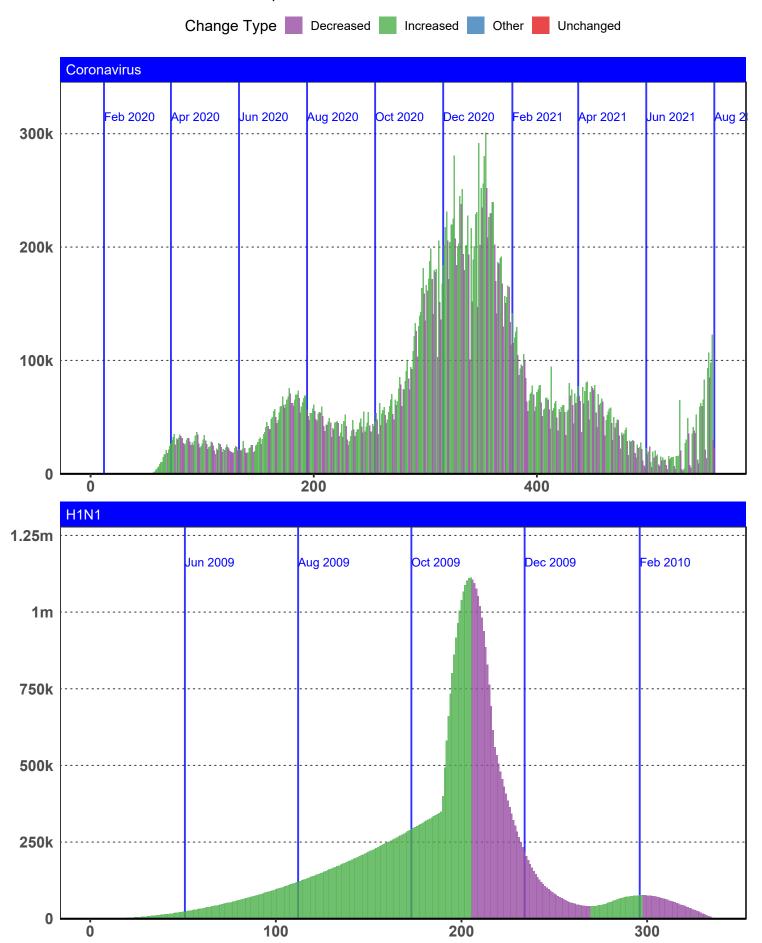
2009 H1N1 estimated deaths by day vs Covid-19 deaths

559 days after the first case



2009 H1N1 new cases by day vs Covid-19 cases

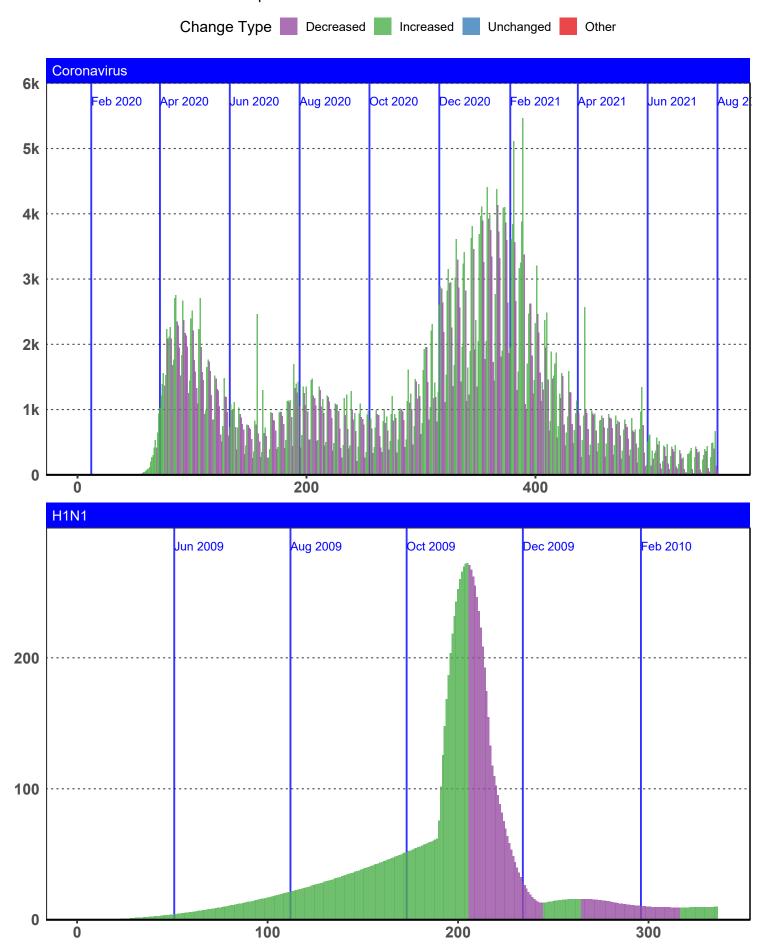
Vertical blue lines are for reference and placed every two months after the frst case for each pandemic



Sources: The New York Times, https://github.com/nytimes/covid-19-data accessed 2021-08-02 (Covid19); https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm (H1N1)

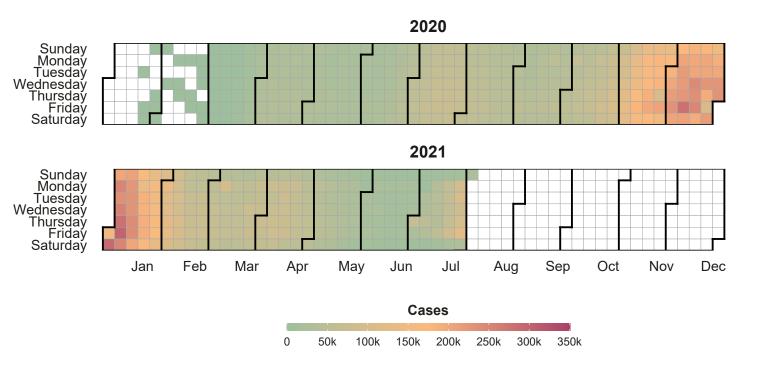
2009 H1N1 new deaths by day vs Covid-19 deaths

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

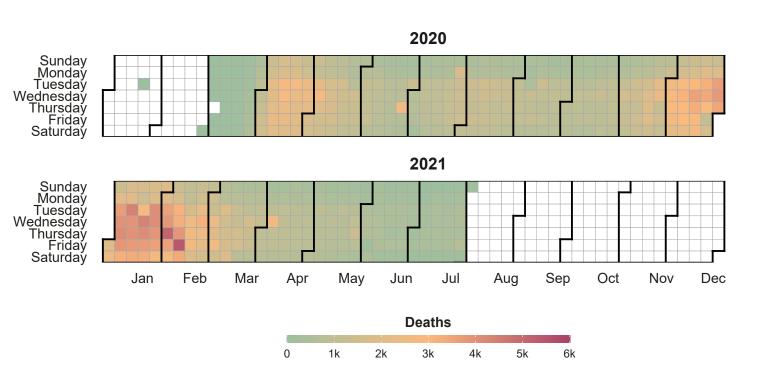


Sources: The New York Times, https://github.com/nytimes/covid-19-data accessed 2021-08-02 (Covid19); https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm (H1N1)

COVID-19 Cases in the US



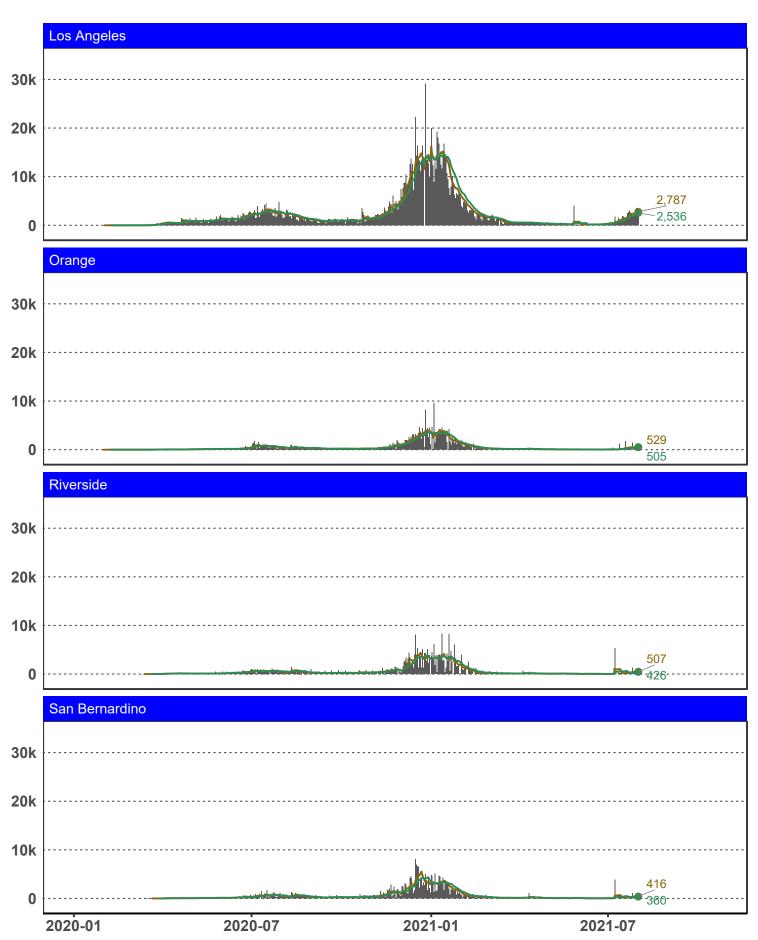
COVID-19 Deaths in the US



Rates by Counties

New cases, 7 and 14 days rolling average

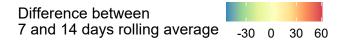
variable - rollingMean07Day - rollingMean14Day



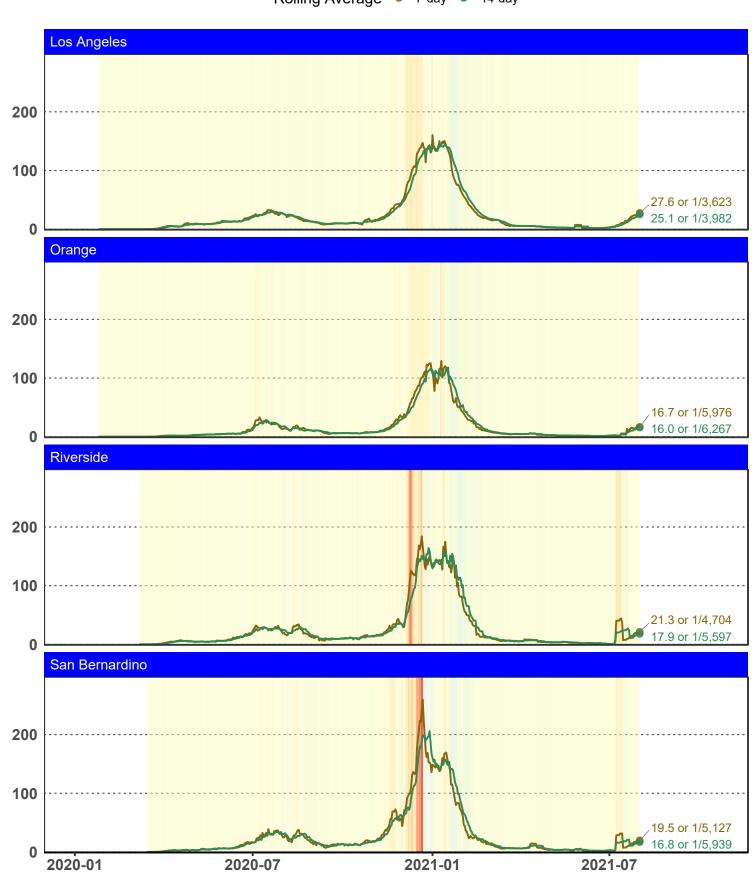
Sources: The New York Times, https://github.com/nytimes/covid-19-data accessed 2021-08-02 (Covid19)

Rates by Counties by 100K population

New cases, 7 and 14 days rolling average



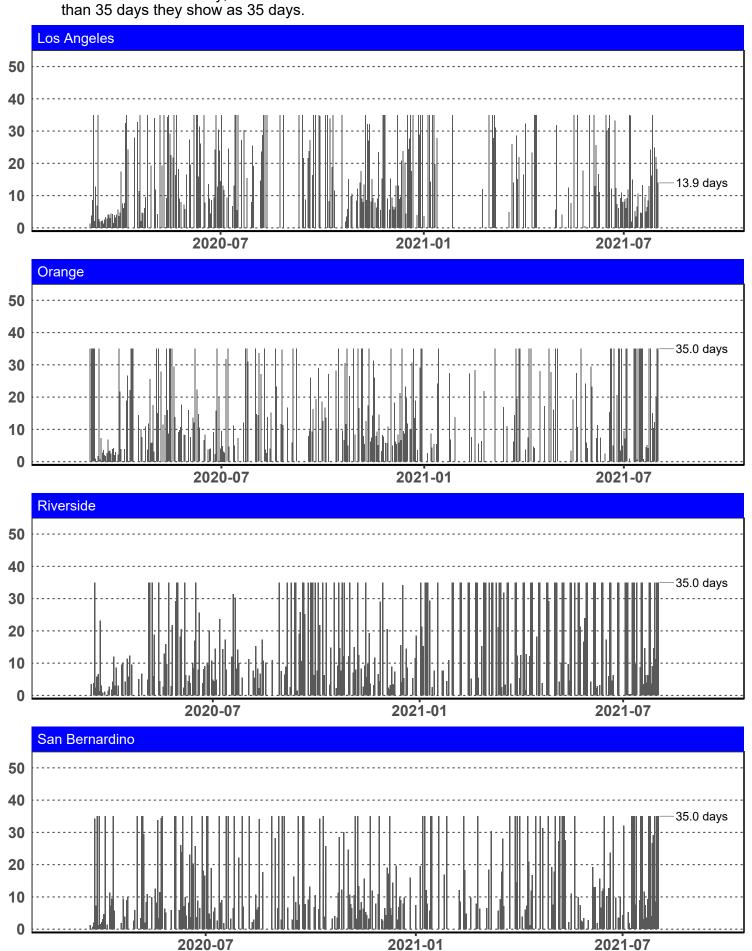
Rolling Average - 7-day - 14-day



Sources: The New York Times, https://github.com/nytimes/covid-19-data accessed 2021-08-02 (Covid19)

Days to double the number of cases

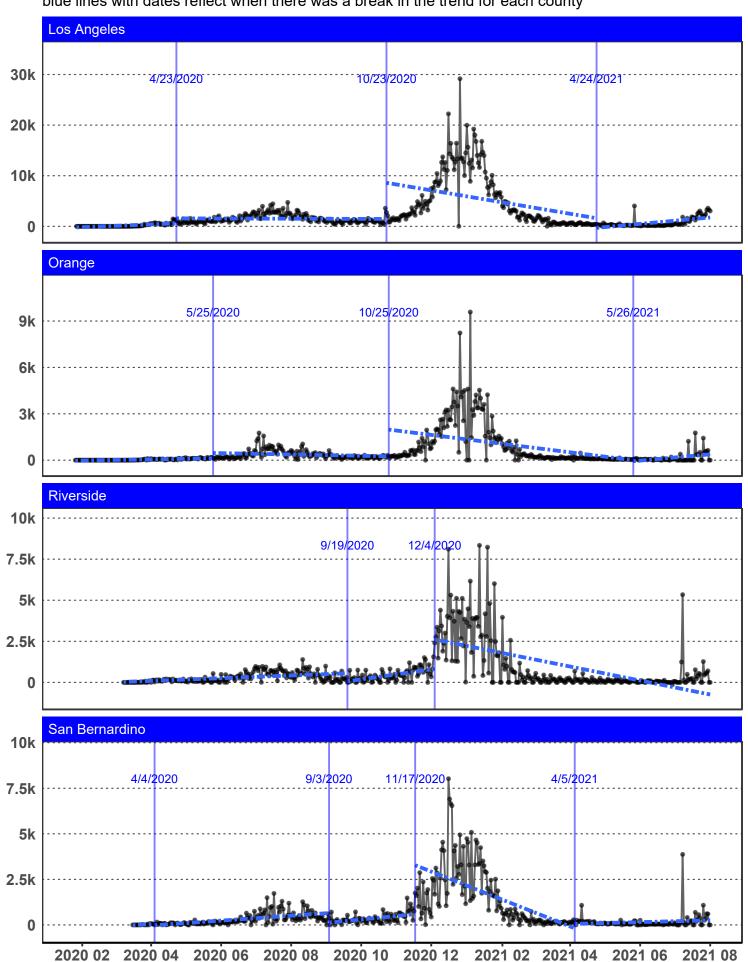
based on seven day rolling average of new cases, for counts increase only, if the counts double in more than 35 days they show as 35 days.



Sources: The New York Times, https://github.com/nytimes/covid-19-data accessed 2021-08-02 (Covid19)

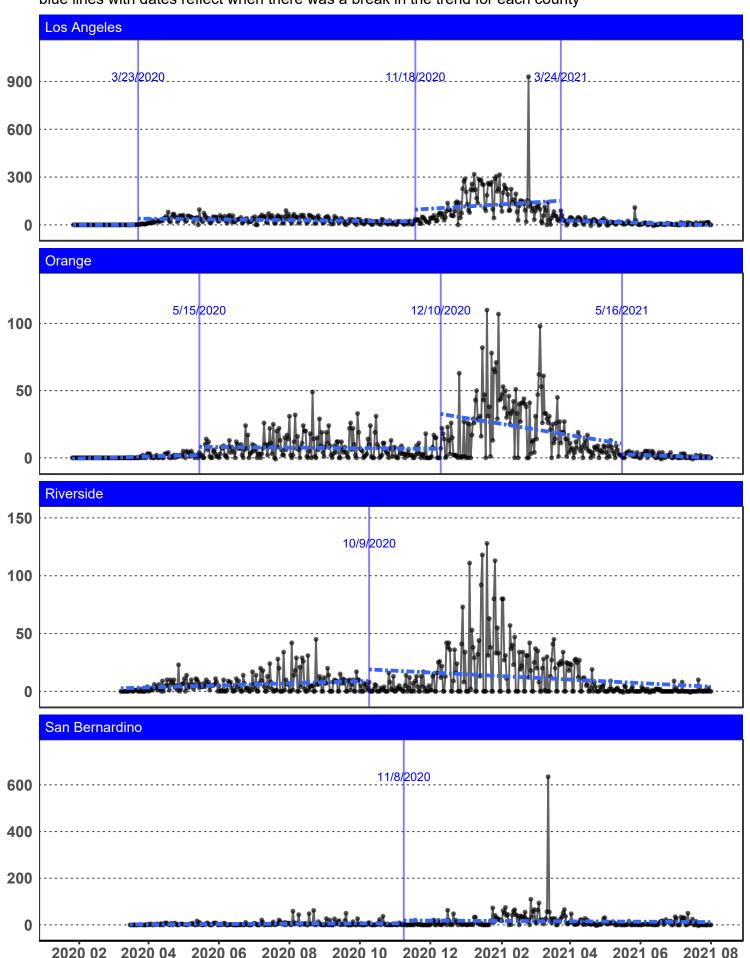
Structural change analysis of daily new cases

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



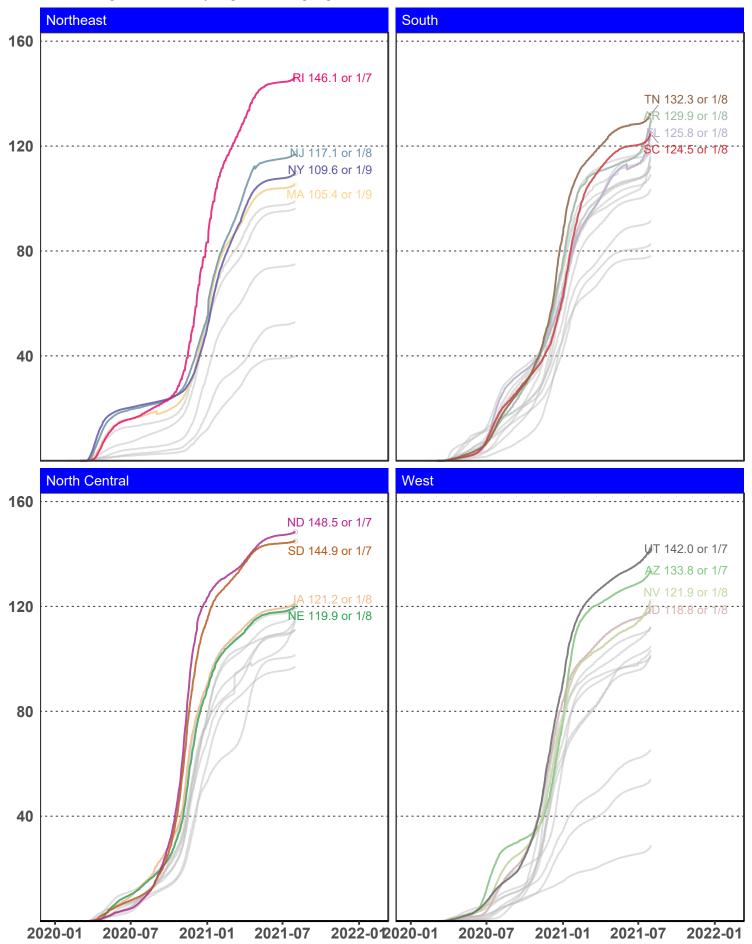
Structural change analysis of daily new deaths

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



7-day rolling average of daily cases per 100k persons by state region the four highest states by region are highlighted

Northeast South 200 150 100 LpA 88.3 or 1/1,132 L 76.8 or 1/1,302 AR 62.5 or 1/1,599 50 8 49.4 or 1/2;026 RI 12.1 or 1/8,291 11.6 or 1/8,605 0.6 or 1/9,464 0 **North Central** West 200 150 100 50 NV 36.0 or 1/2,780 MO 43.6 or 1/2,295 K 32.1 or 1/3,114 S 27.3 or 1/3,664 28.4 or 1/3,523 25.4 or 1/3,930 0

2020-07

2022-01

2020-01

2020-01

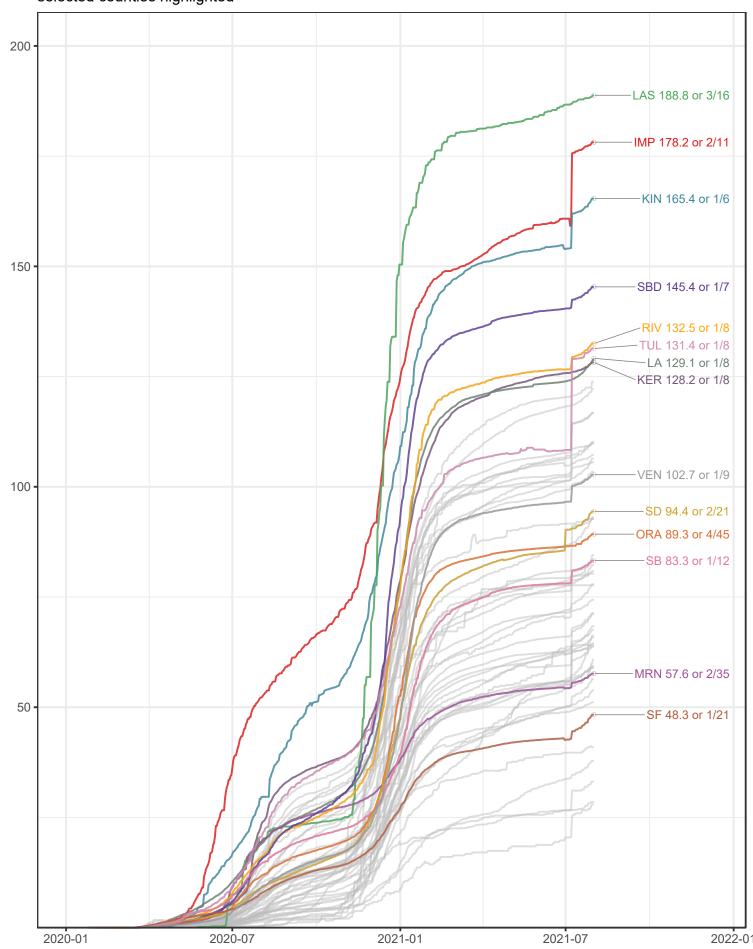
2020-07

2021-01

2021-07

2022-01

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



Sources: The New York Times, https://github.com/nytimes/covid-19-data accessed 2021-08-02 (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 California counties selected counties highlighted

