

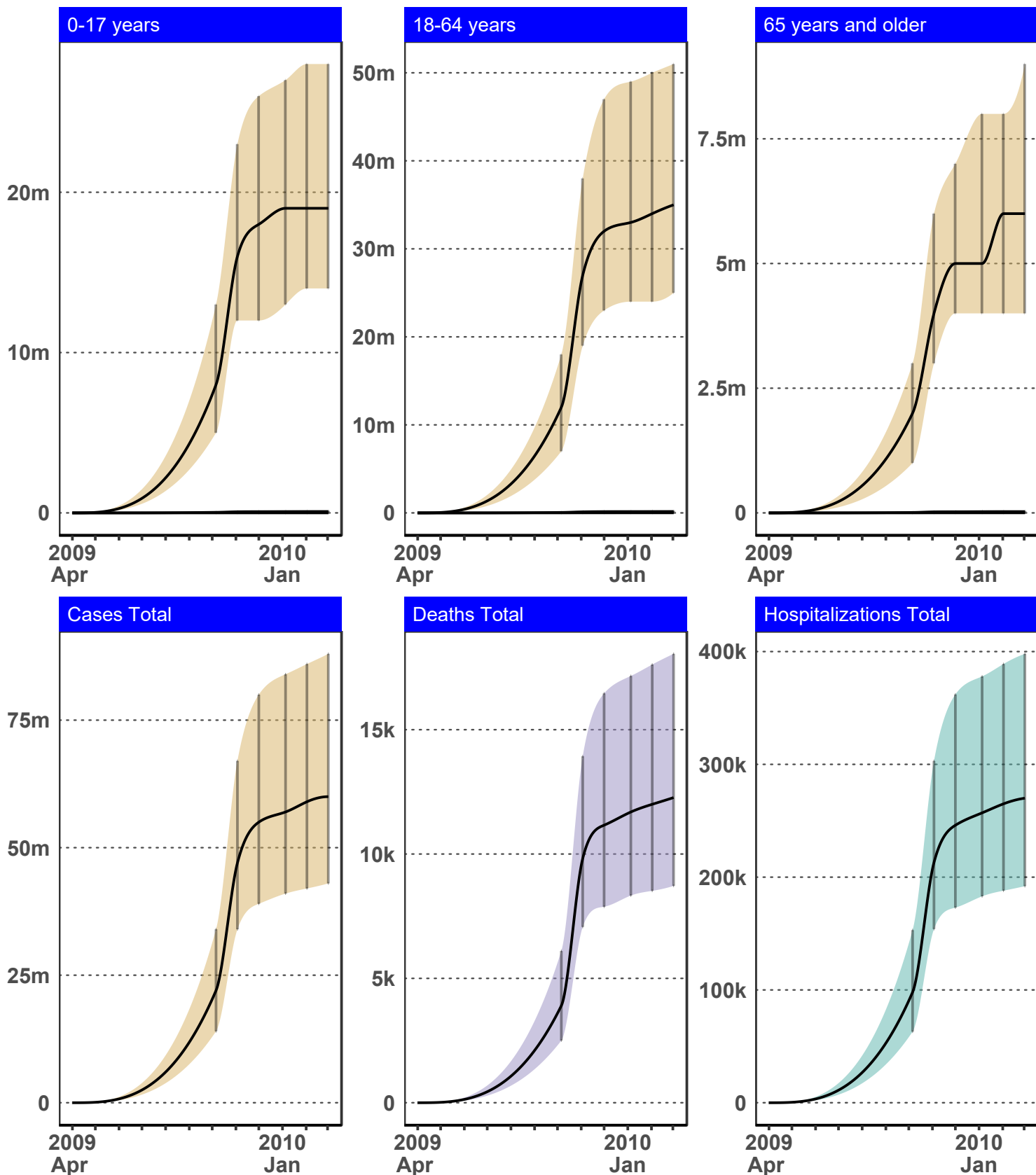
2009 H1N1 (swine flu pandemic) cases, deaths, and hospitalizations

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.

Type Cases Deaths Hospitalizations



Source: https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm (H1N1)

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

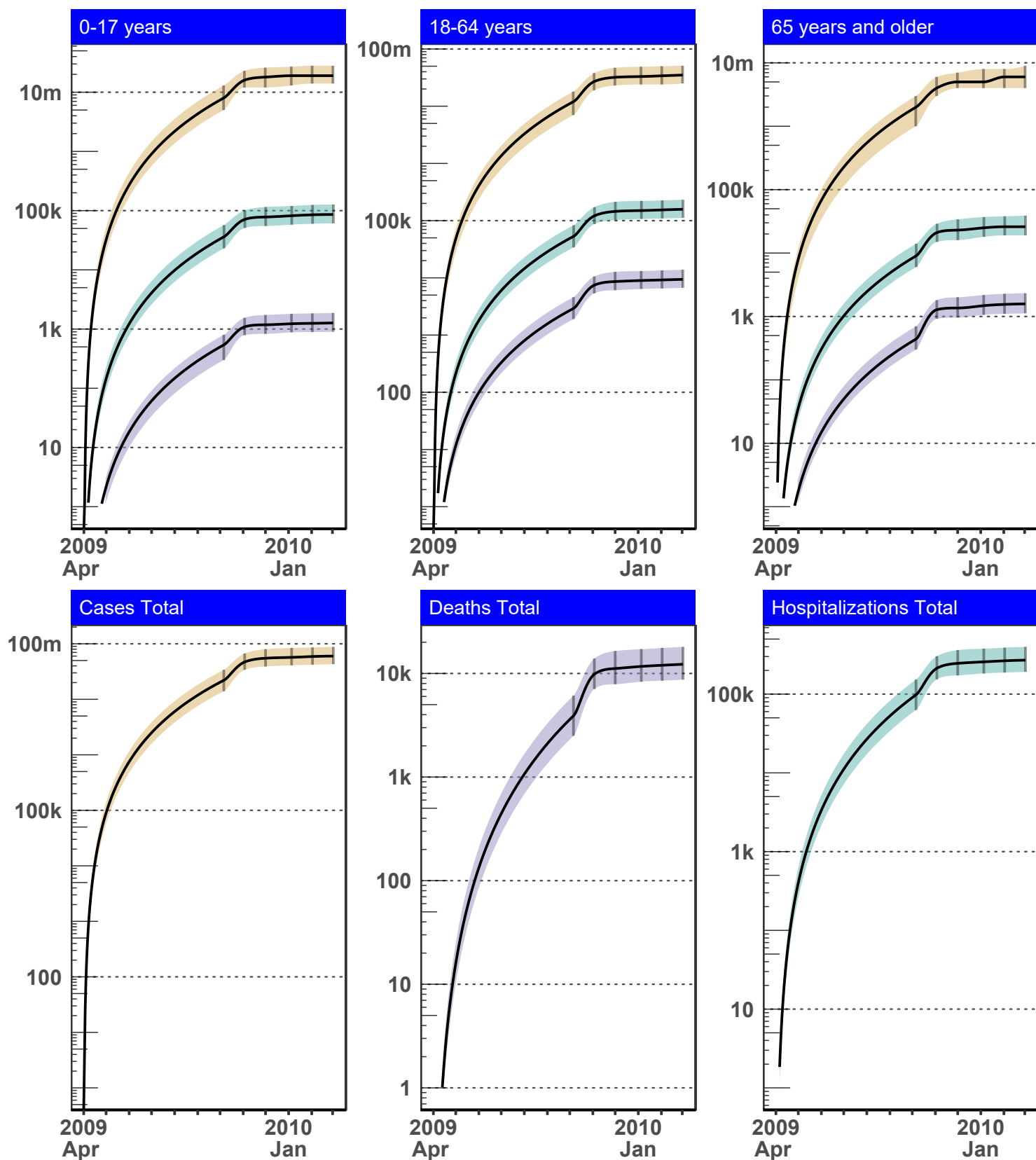
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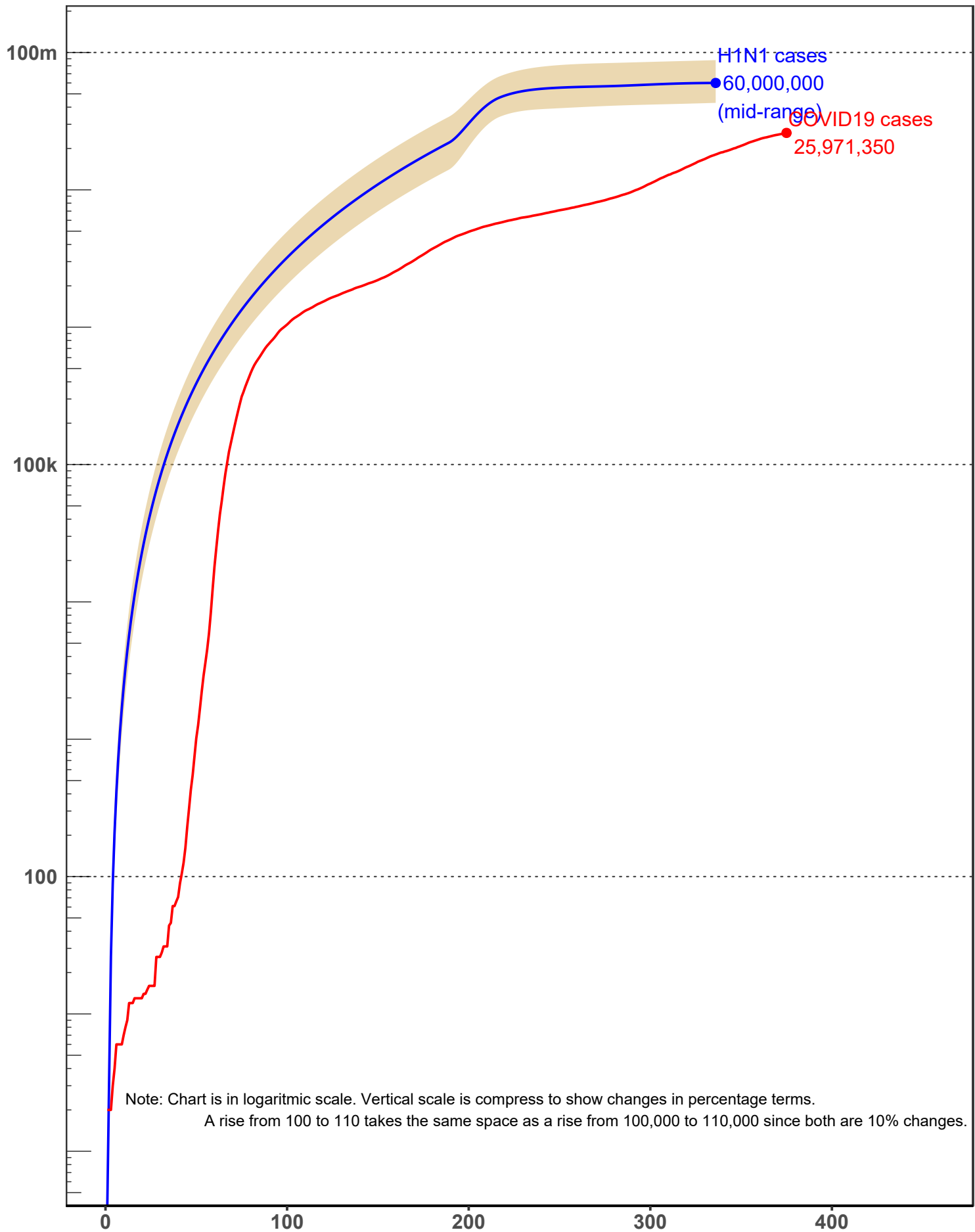
Note: y-axis is in log scale

Source: https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm (H1N1)

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

2009 H1N1 cumulative cases by day vs Covid-19

375 days after the first case

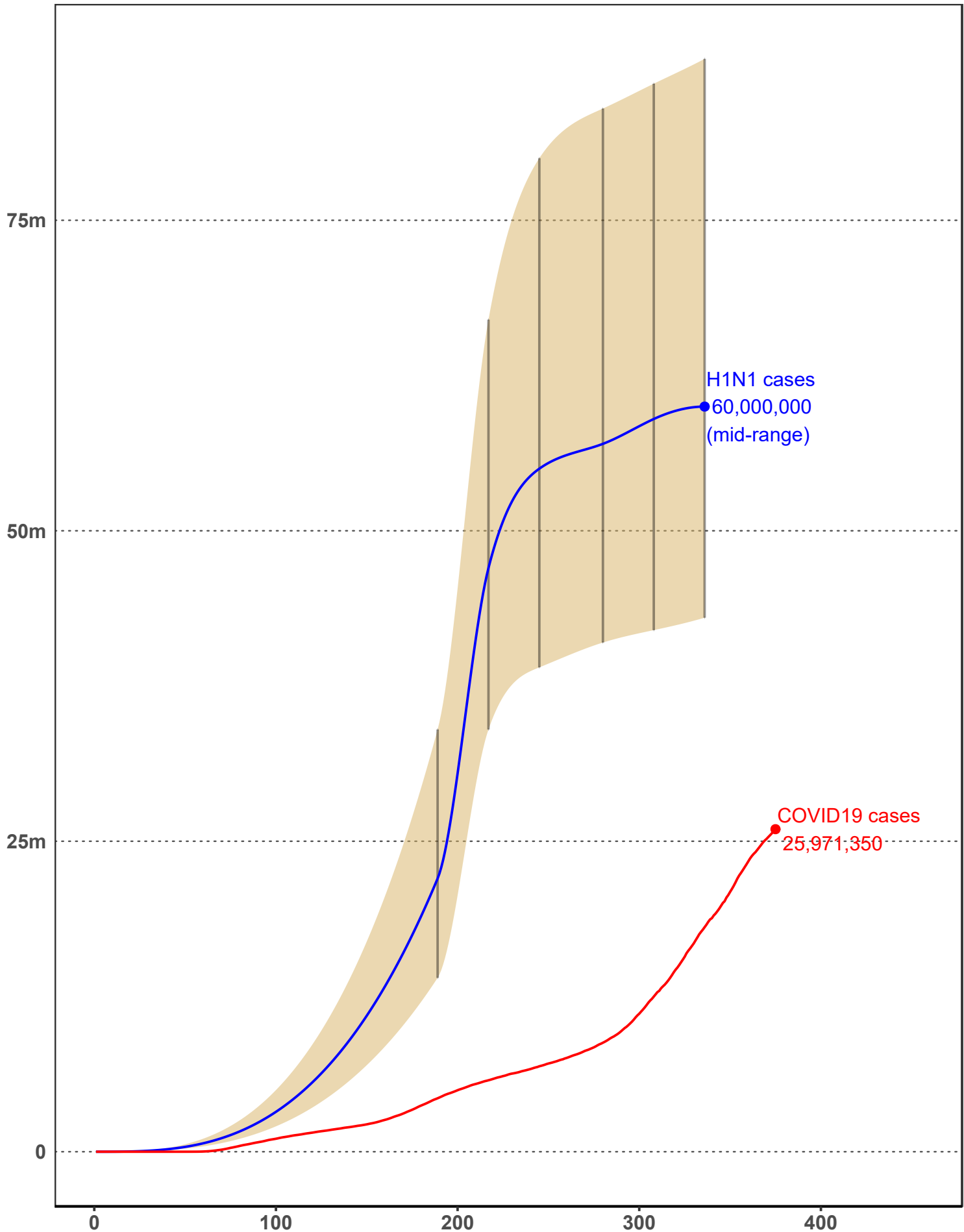


Note: Chart is in logarithmic scale. Vertical scale is compress to show changes in percentage terms.

A rise from 100 to 110 takes the same space as a rise from 100,000 to 110,000 since both are 10% changes.

2009 H1N1 cumulative cases by day vs Covid-19

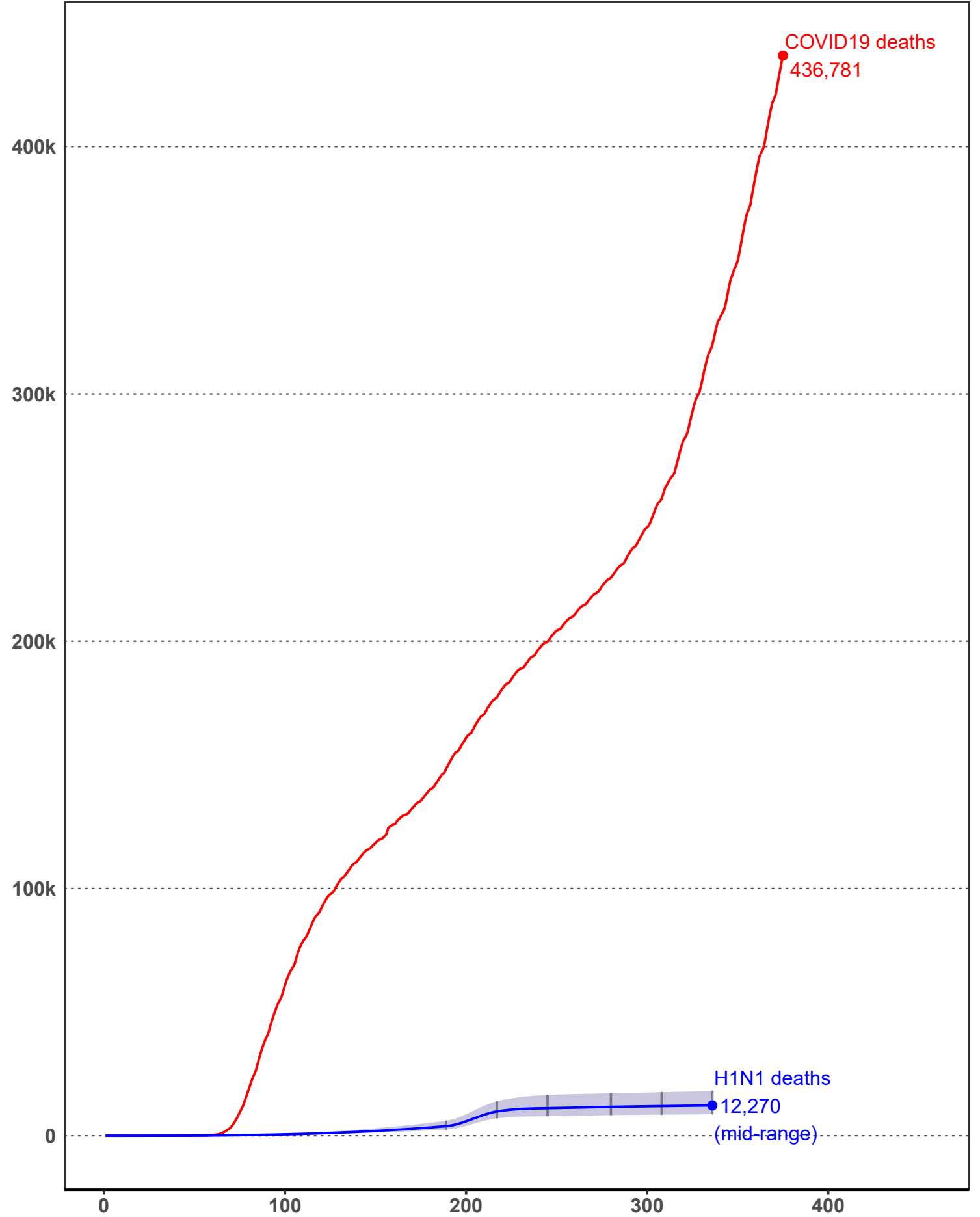
375 days after the first case



Sources: The New York Times, <https://github.com/nytimes/covid-19-data> accessed 2021-01-30 (Covid19); https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm (H1N1)

2009 H1N1 estimated deaths by day vs Covid-19 deaths

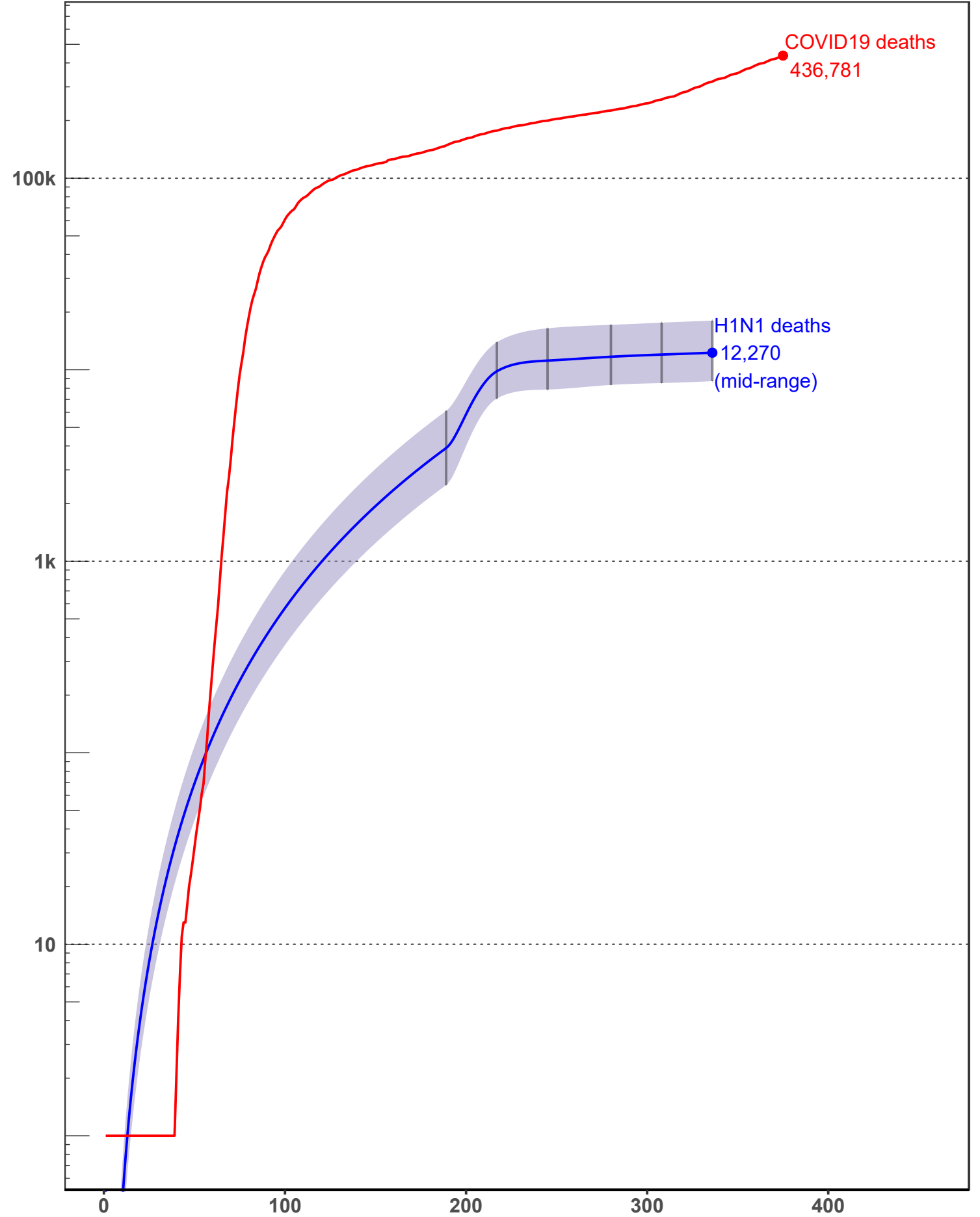
375 days after the first case



Note: y-axis is in log scale
Sources: The New York Times, <https://github.com/nytimes/covid-19-data> accessed 2021-01-30 (Covid19);
https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm (H1N1)

2009 H1N1 estimated deaths by day vs Covid-19 deaths

375 days after the first case

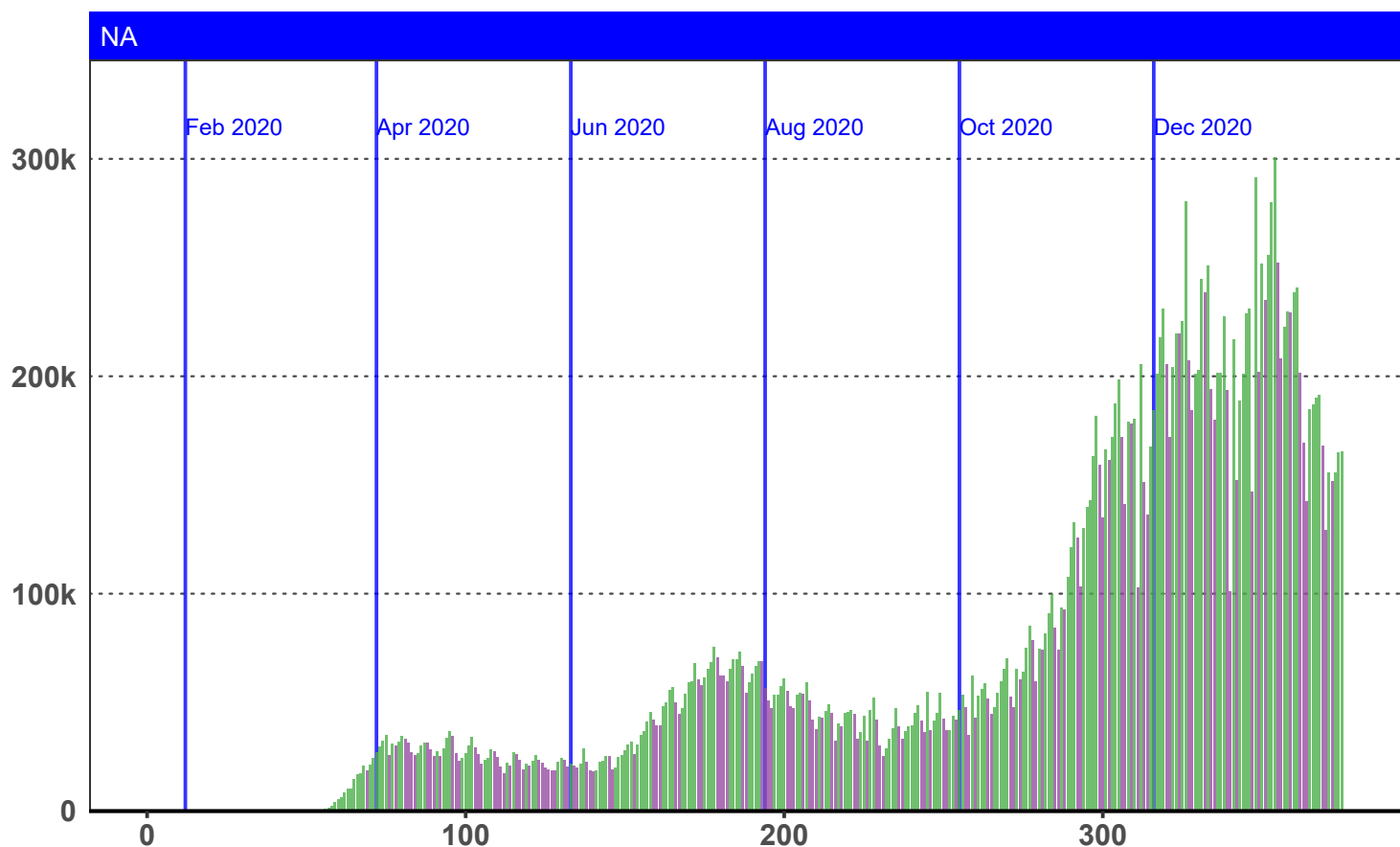
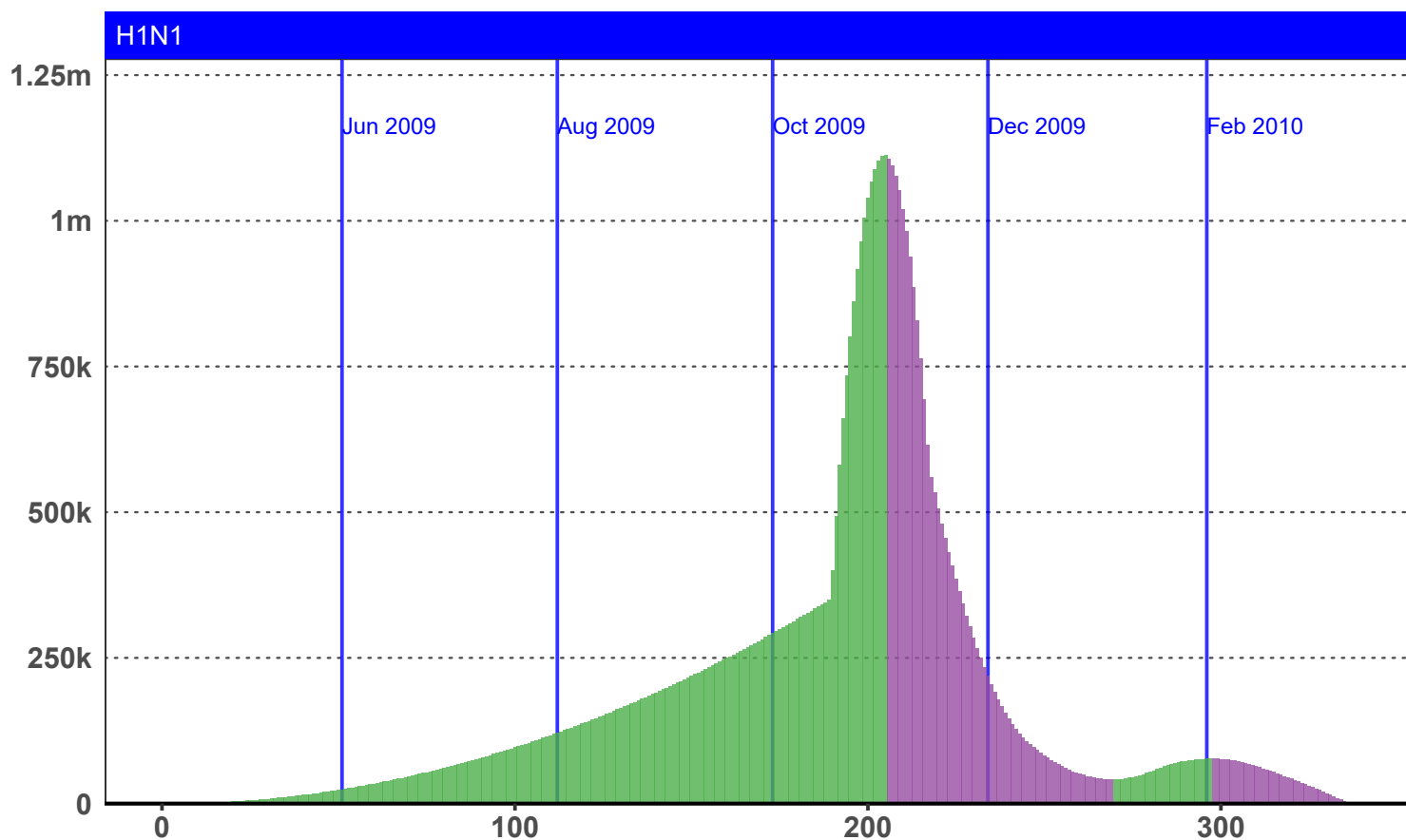


Note: y-axis is in log scale
Sources: The New York Times, <https://github.com/nytimes/covid-19-data> accessed 2021-01-30 (Covid19);
https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm (H1N1)

2009 H1N1 new cases by day vs Covid-19 cases

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

Change Type Decreased Increased Unchanged Other

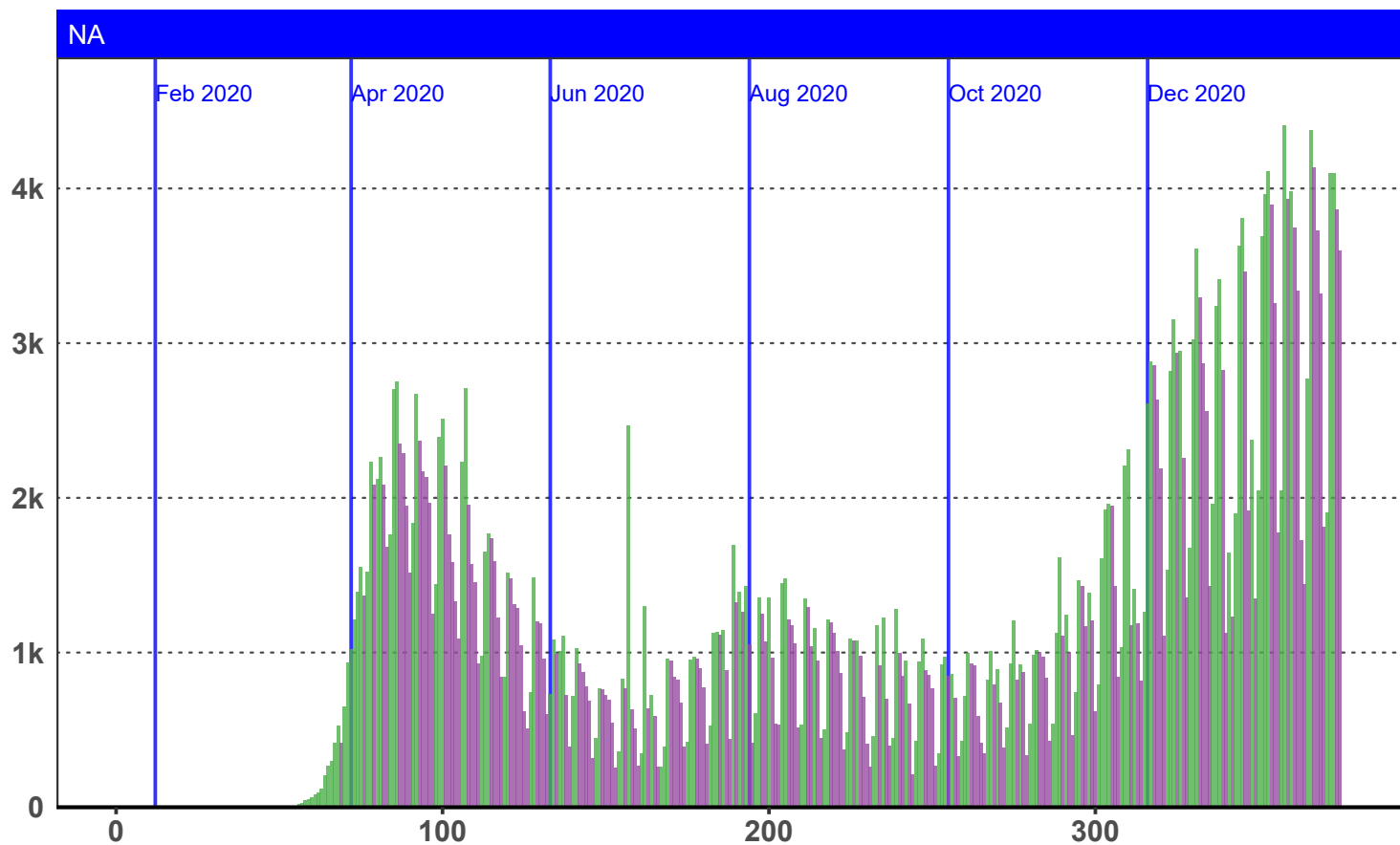
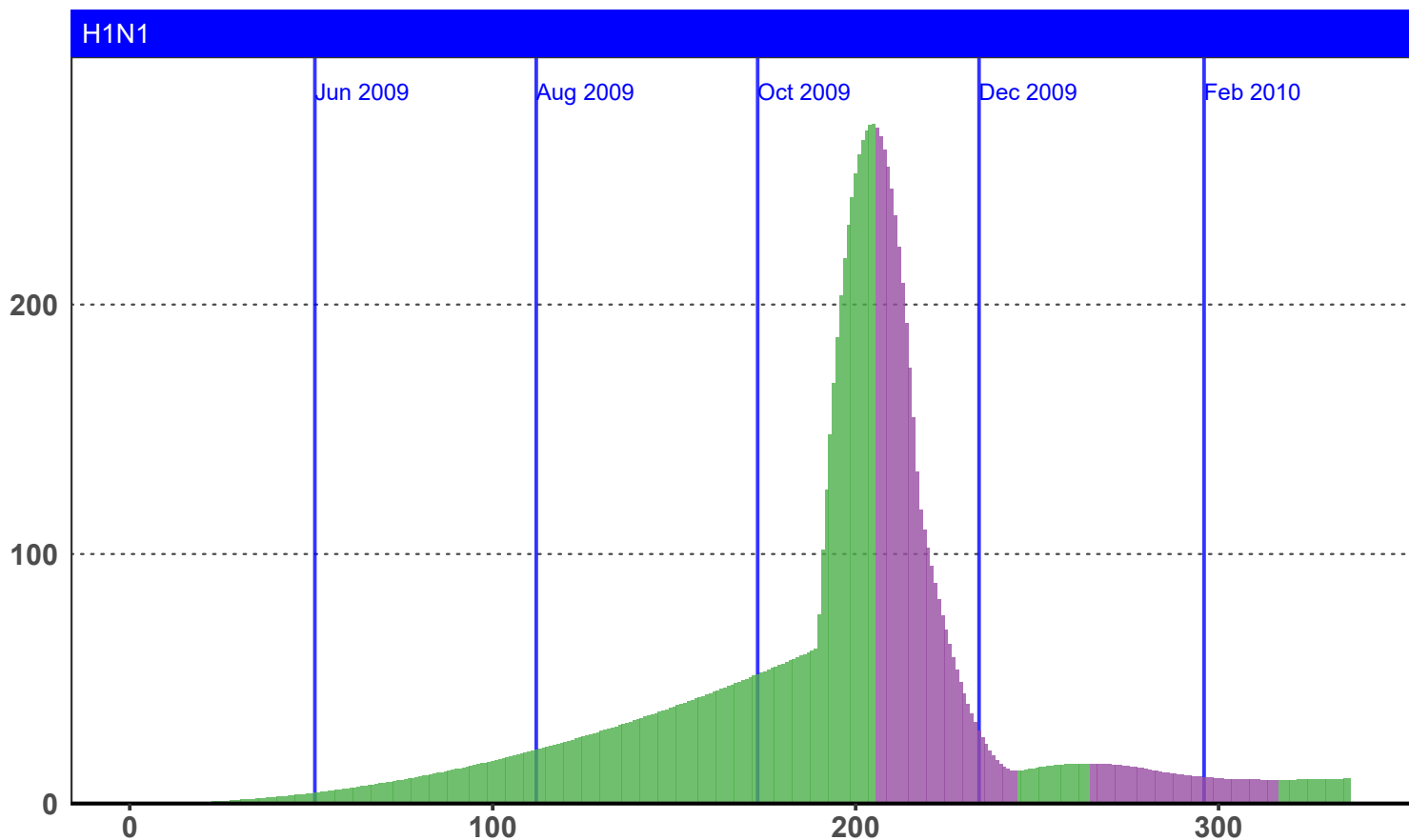


Sources: The New York Times, <https://github.com/nytimes/covid-19-data> accessed 2021-01-30 (Covid19);
https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm (H1N1)

2009 H1N1 new deaths by day vs Covid-19 deaths

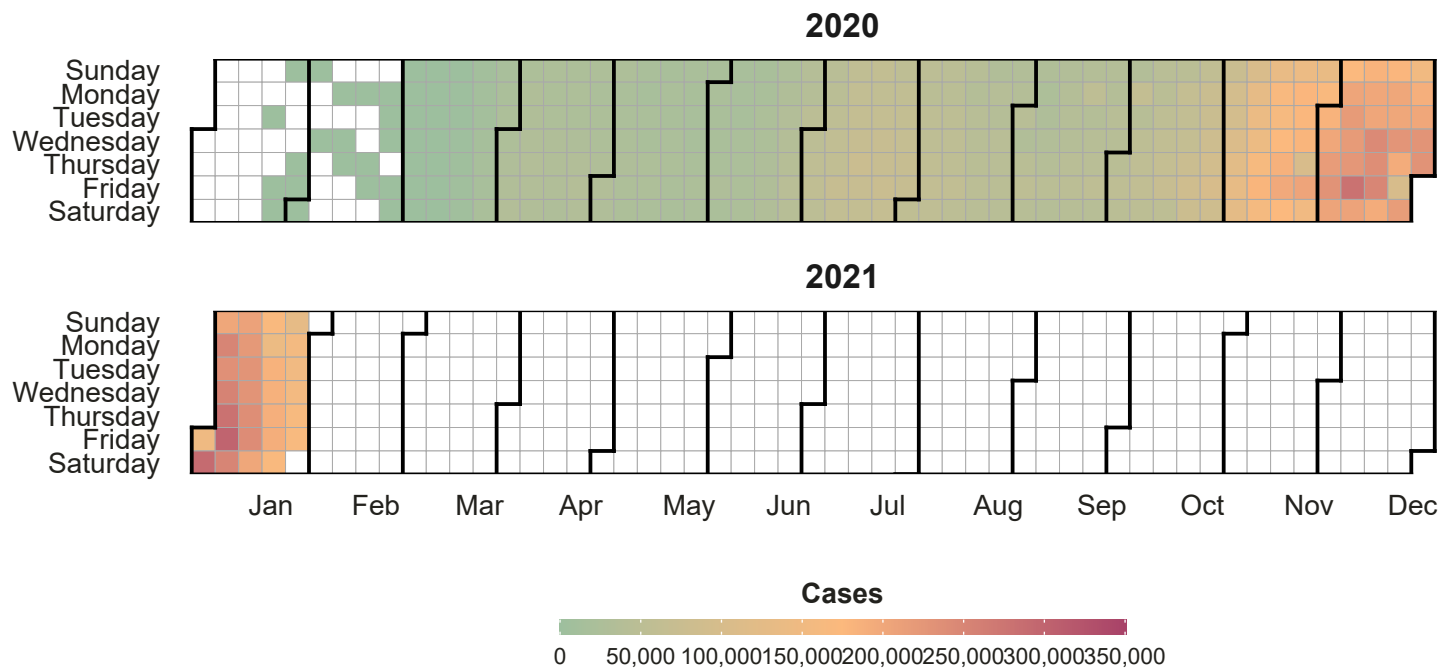
Vertical blue lines are for reference and placed every two months after the first case for each pandemic

Change Type ■ Decreased ■ Increased ■ Unchanged ■ Other

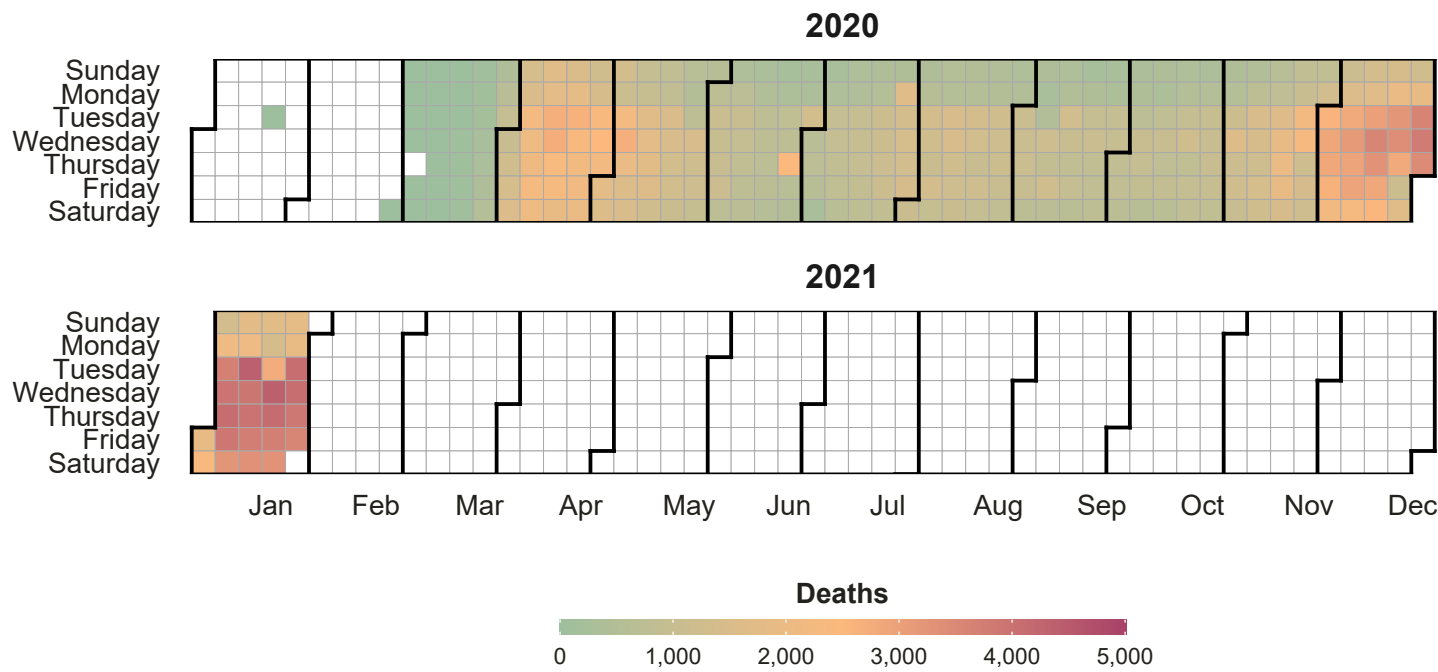


Sources: The New York Times, <https://github.com/nytimes/covid-19-data> accessed 2021-01-30 (Covid19); https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm (H1N1)

COVID-19 Cases in the US



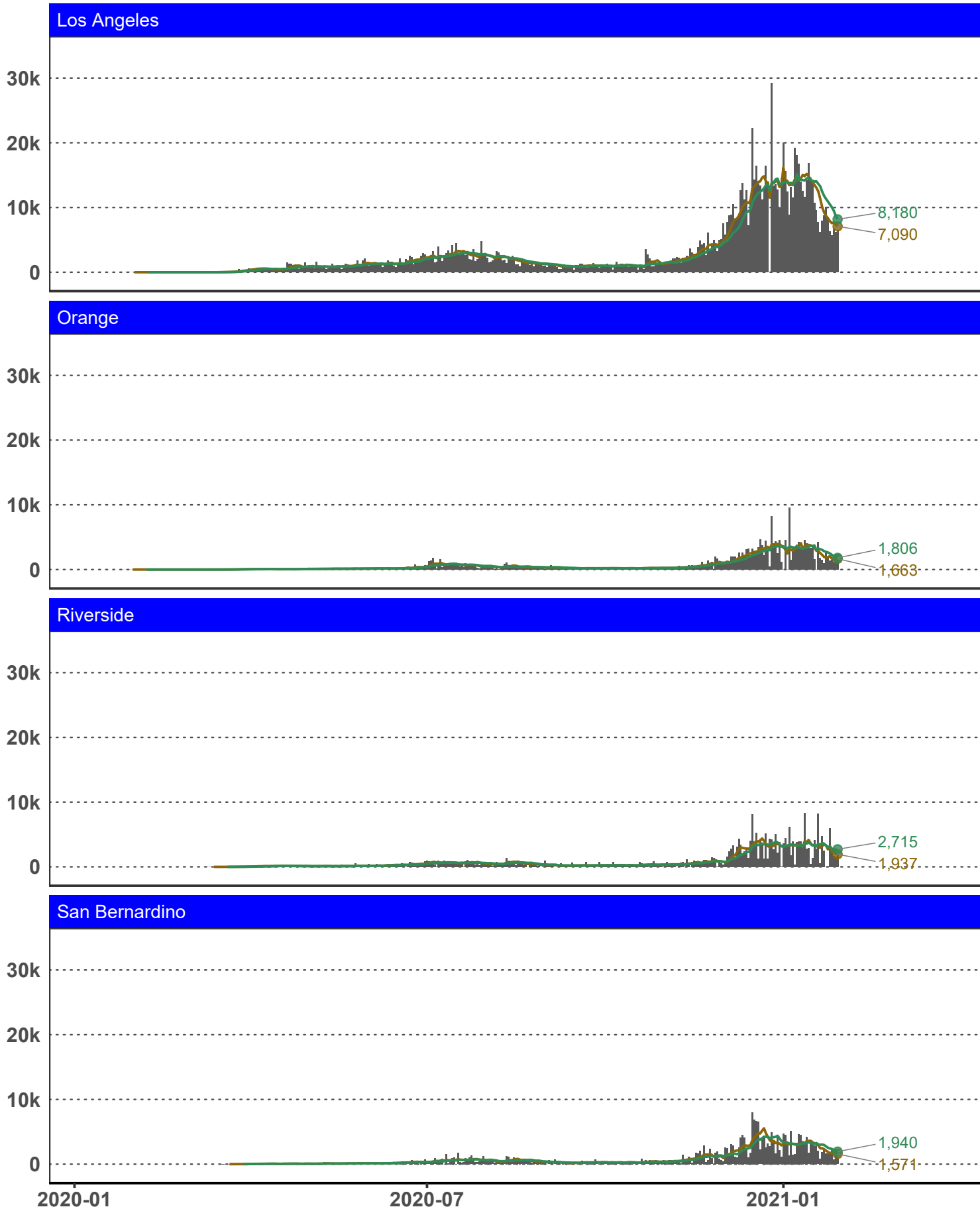
COVID-19 Deaths in the US



Rates by Counties

New cases, 7 and 14 days rolling average

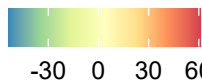
variable rollingMean07Day rollingMean14Day



Rates by Counties by 100K population

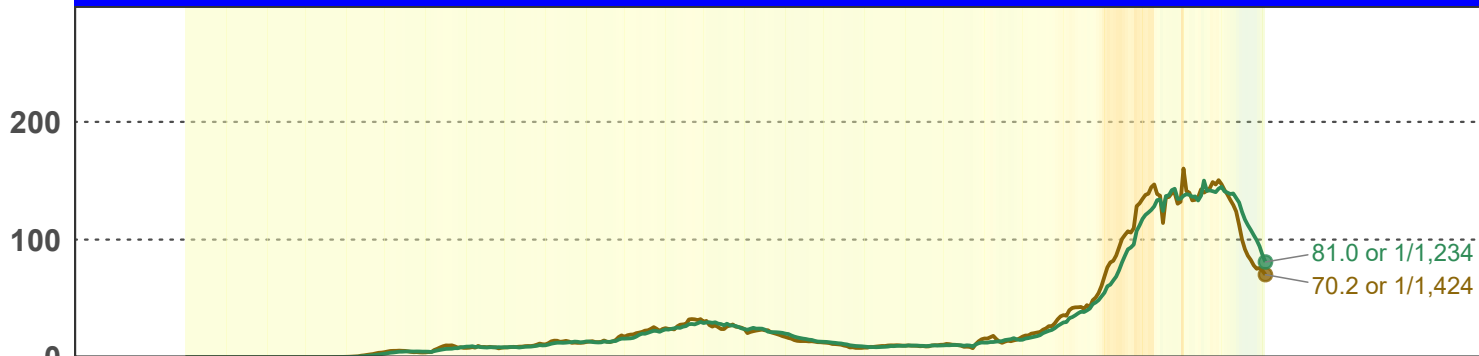
New cases, 7 and 14 days rolling average

Difference between
7 and 14 days rolling average

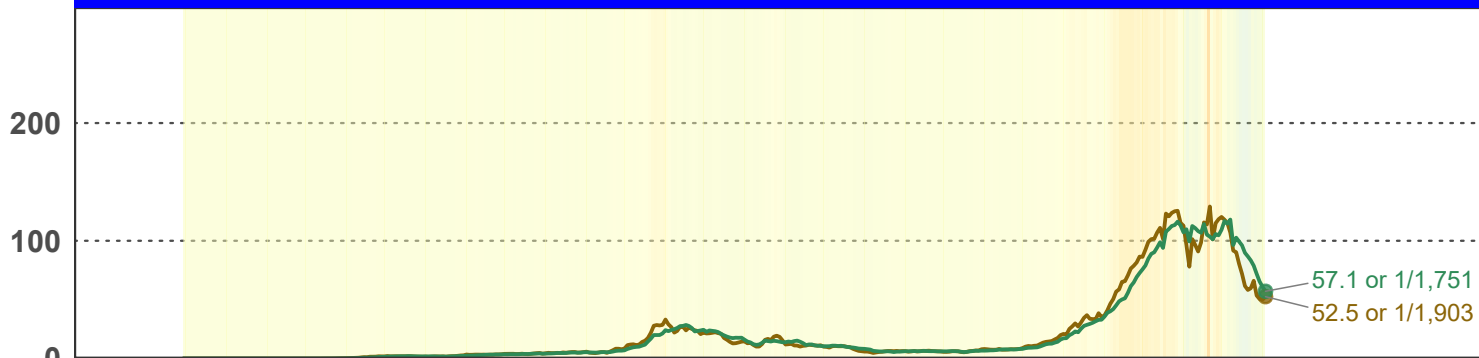


Rolling Average 7-day 14-day

Los Angeles



Orange



Riverside



San Bernardino



2020-01

2020-07

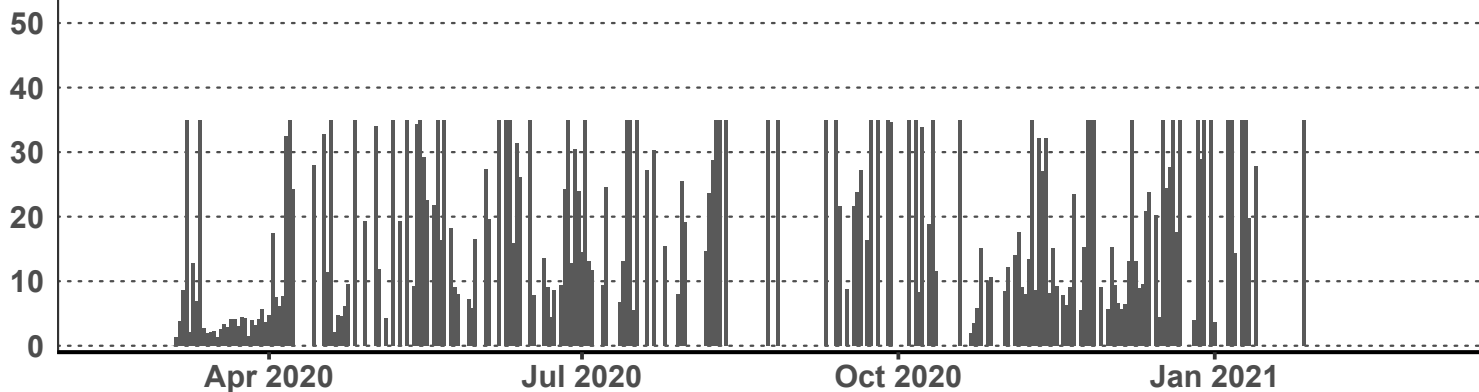
2021-01

Sources: The New York Times, <https://github.com/nytimes/covid-19-data> accessed 2021-01-30 (Covid19)

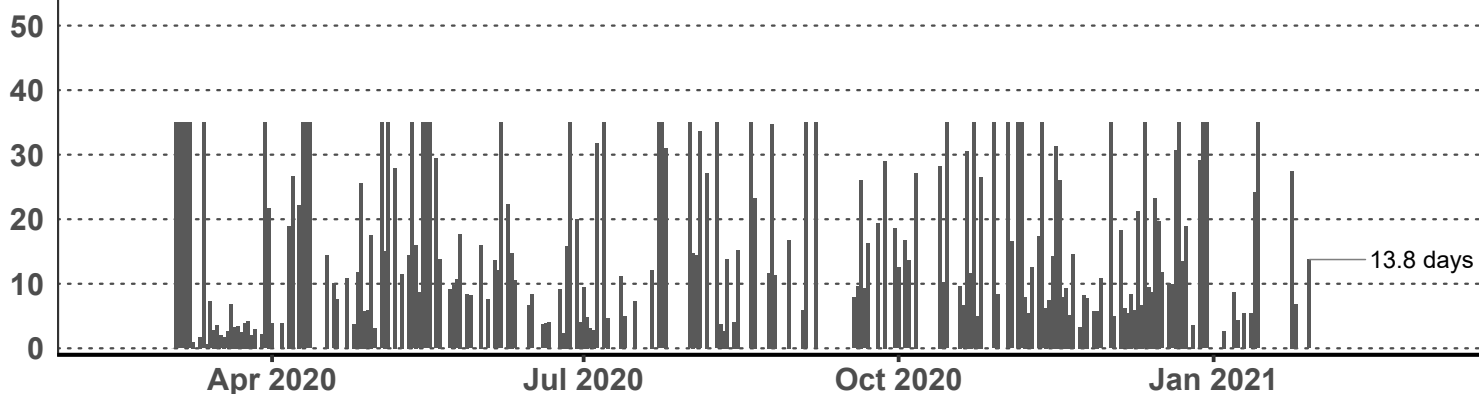
Days to double the number of cases

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.

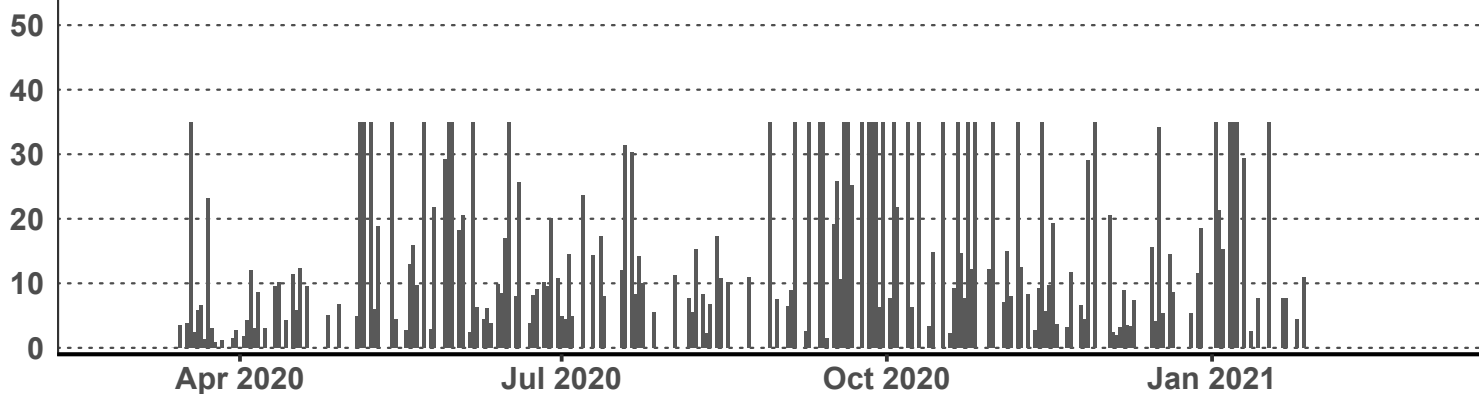
Los Angeles



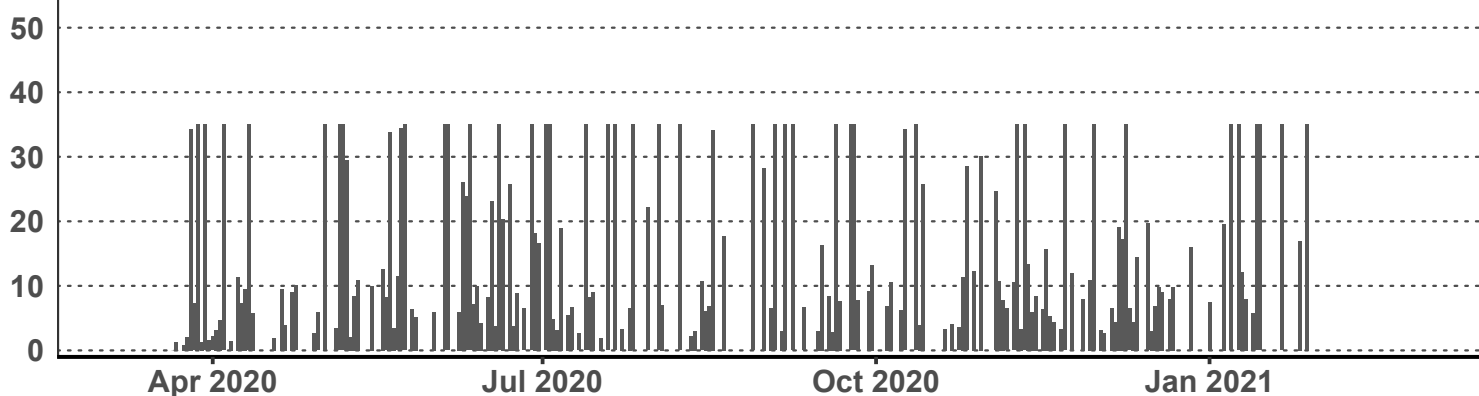
Orange



Riverside

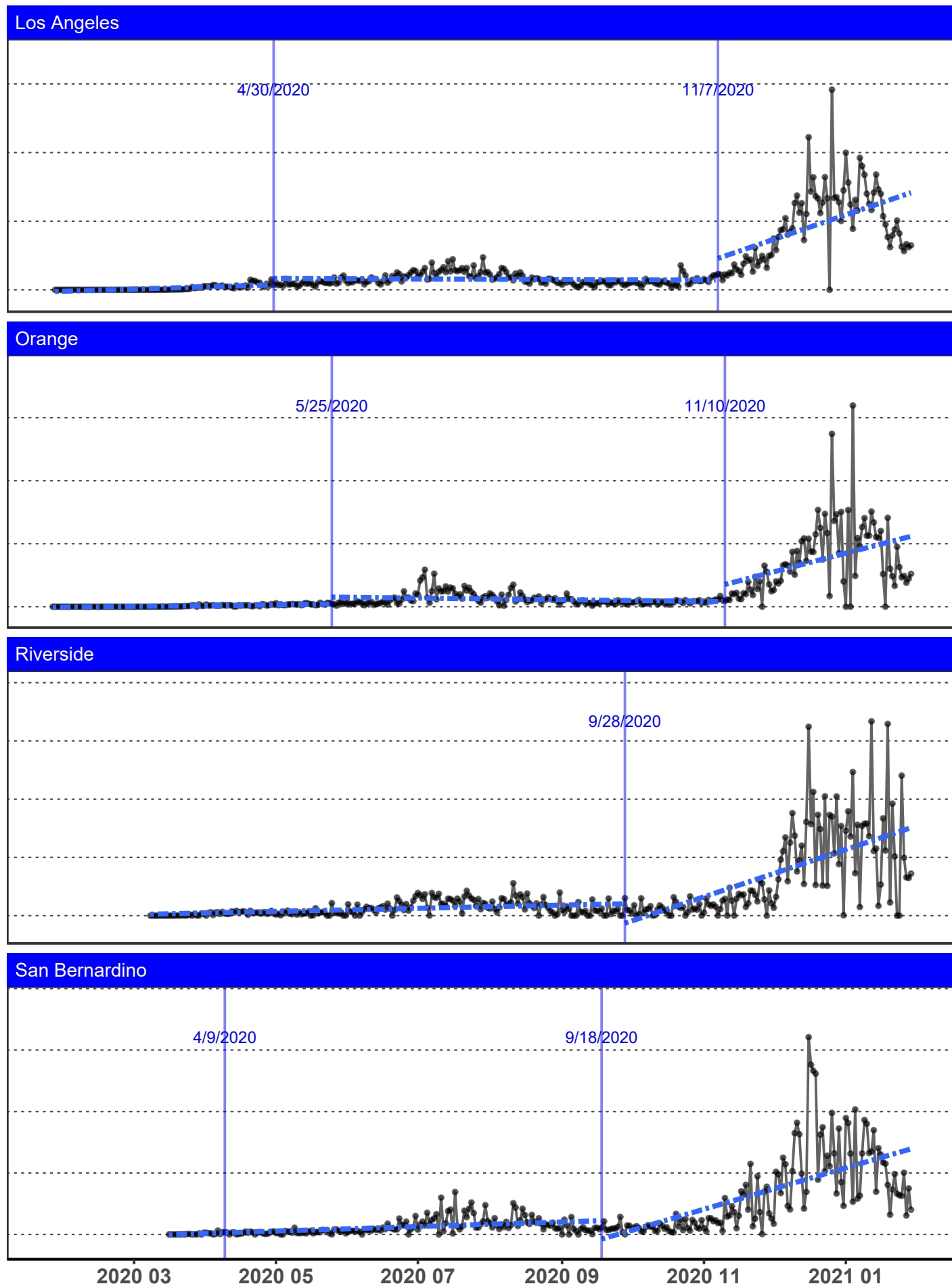


San Bernardino



Structural change analysis of daily cases

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



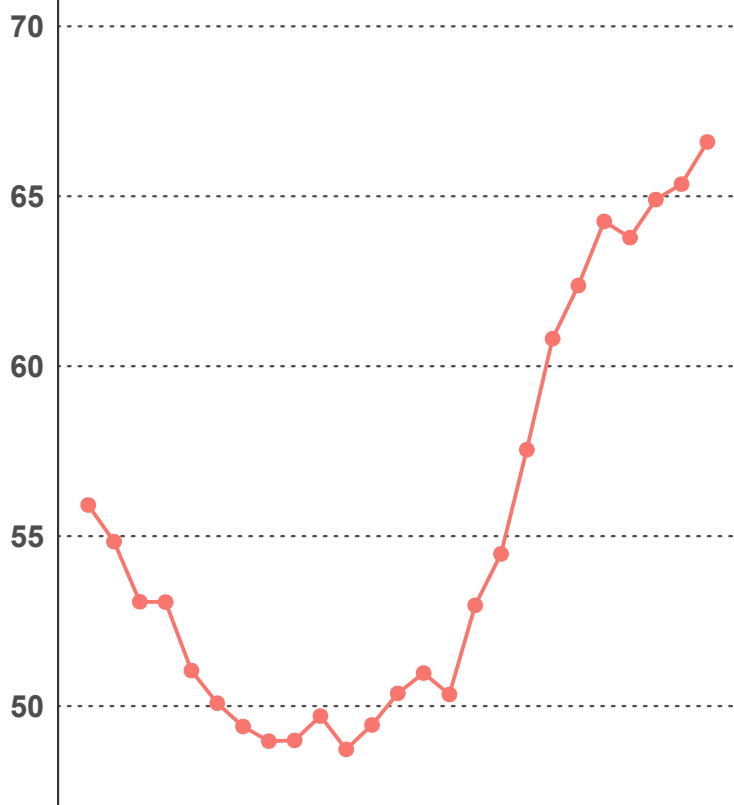
Note: new break trends can developed as new daily counts are included.
Sources: The New York Times, <https://github.com/nytimes/covid-19-data> accessed 2021-01-30 (Covid19)

COVID-19 Reported Patient Impact and Hospital Capacity by Facility

For Los Angeles, Orange, Riverside and San Bernardino Counties

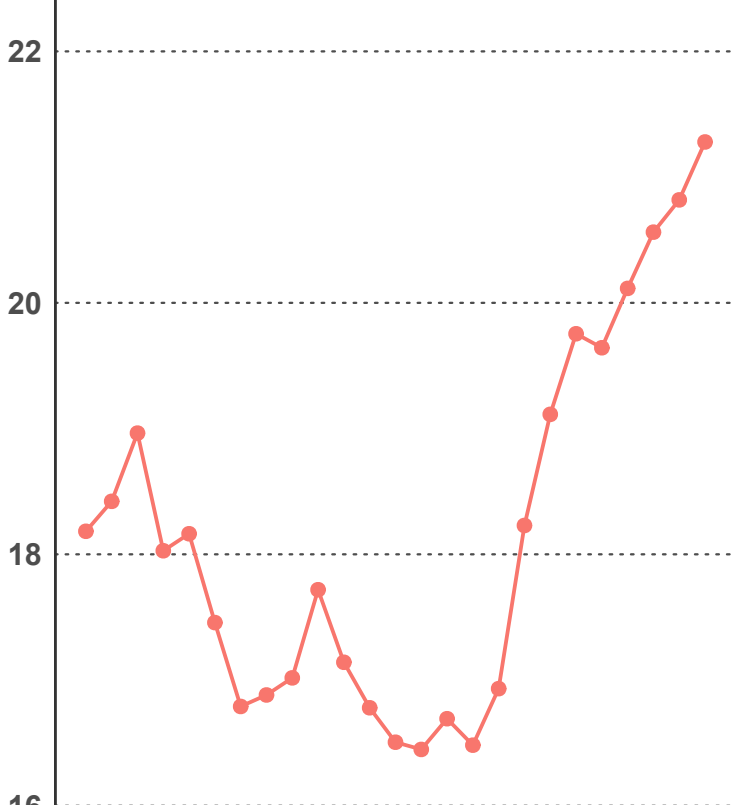
NAME: Los Angeles

name: cln_icu_beds_ovr_total



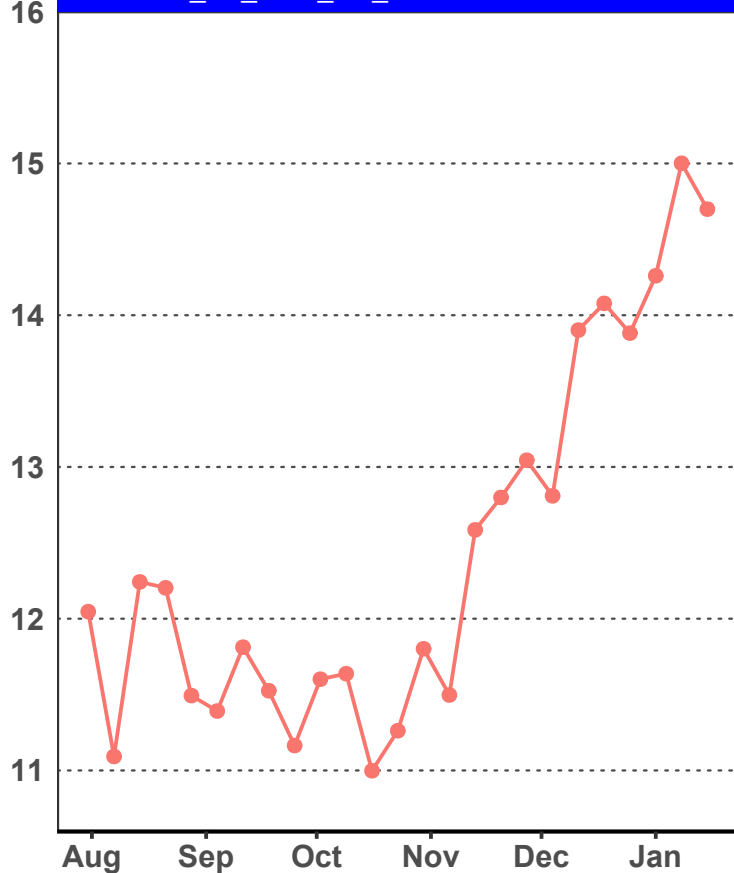
NAME: Orange

name: cln_icu_beds_ovr_total



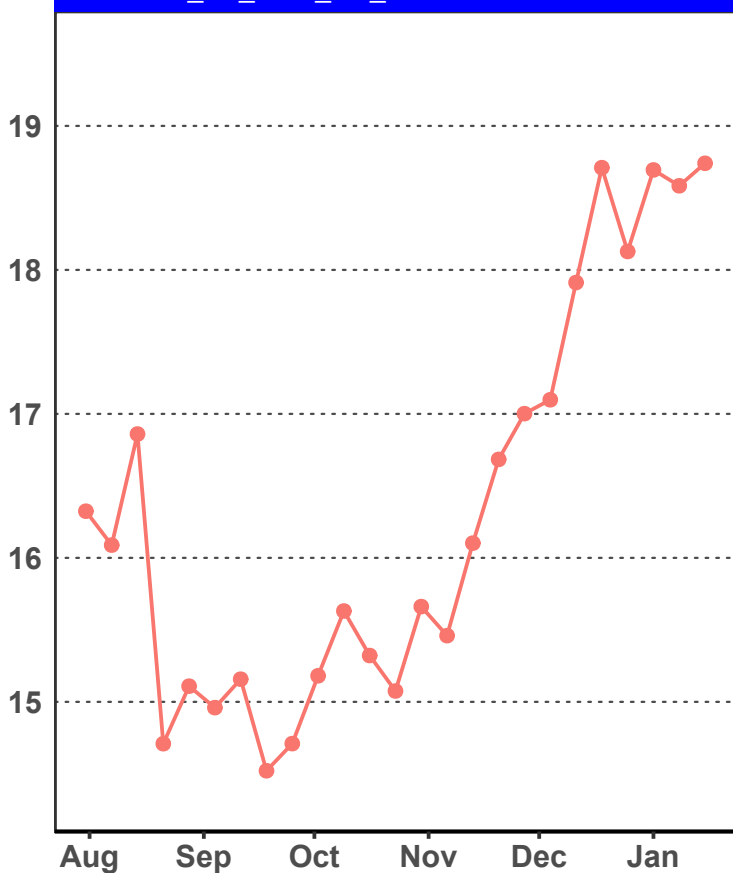
NAME: Riverside

name: cln_icu_beds_ovr_total



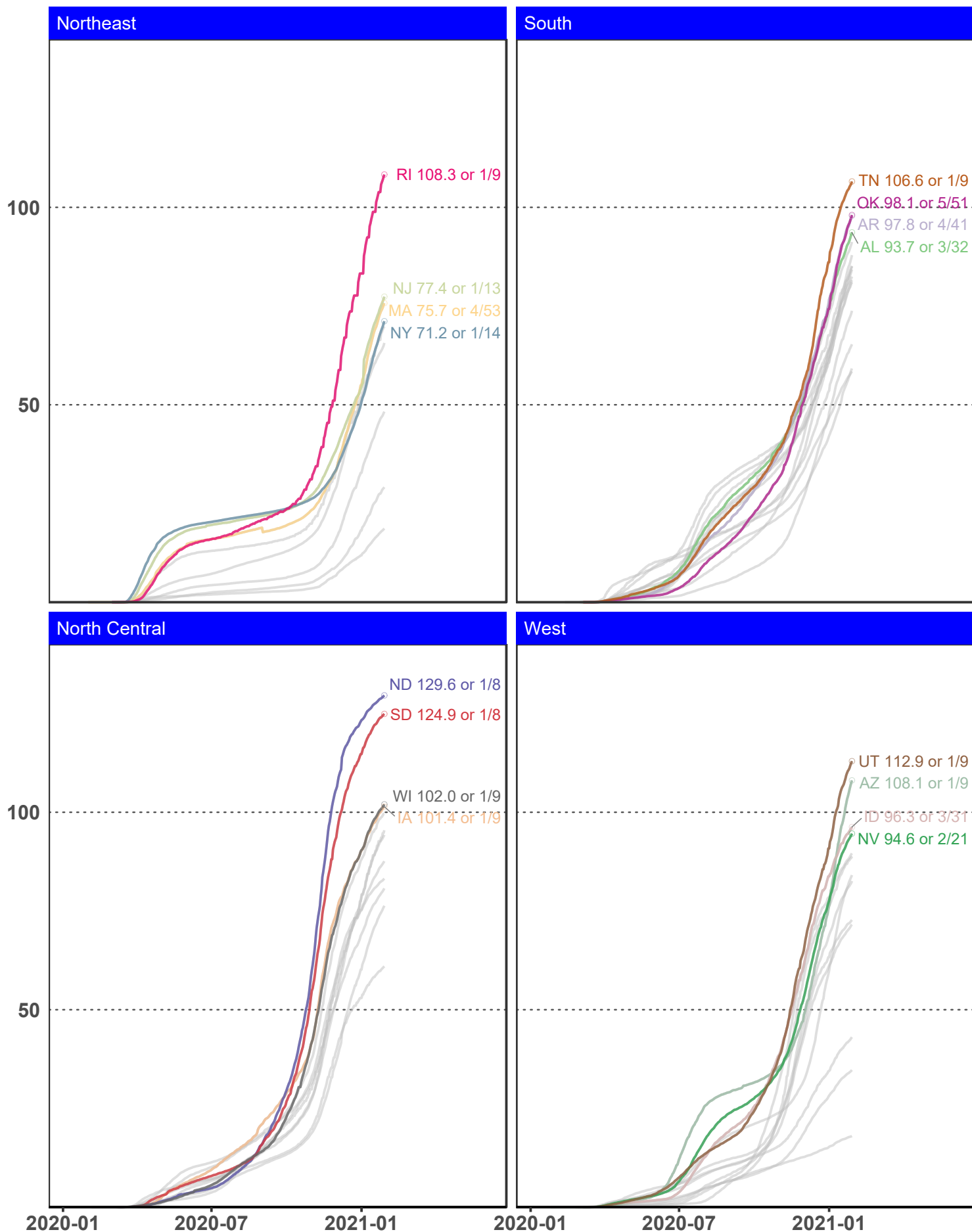
NAME: San Bernardino

name: cln_icu_beds_ovr_total



Cummulative cases per 1k persons by state region

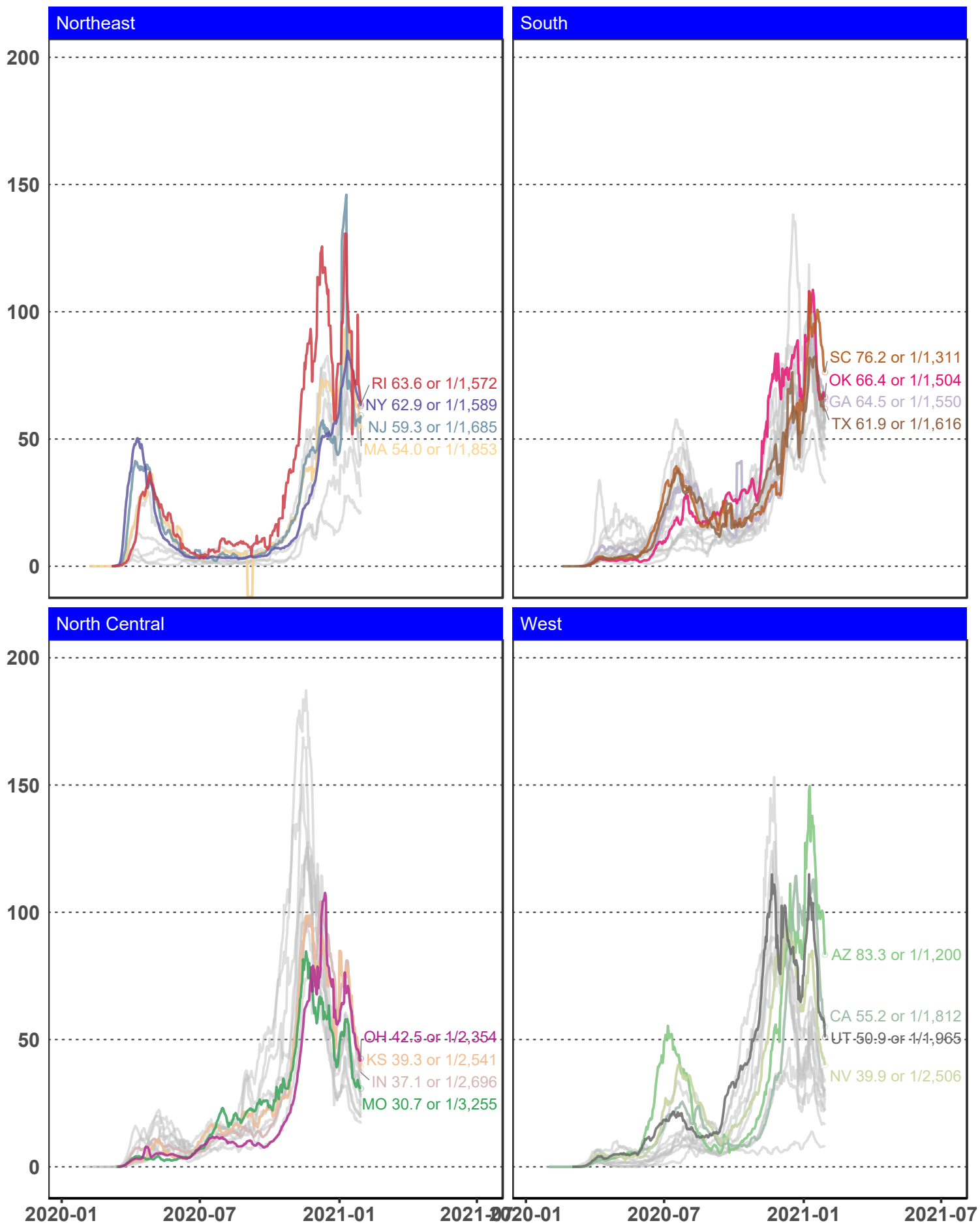
the four highest states by region are highlighted



Sources: The New York Times, <https://github.com/nytimes/covid-19-data> accessed 2021-01-30 (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

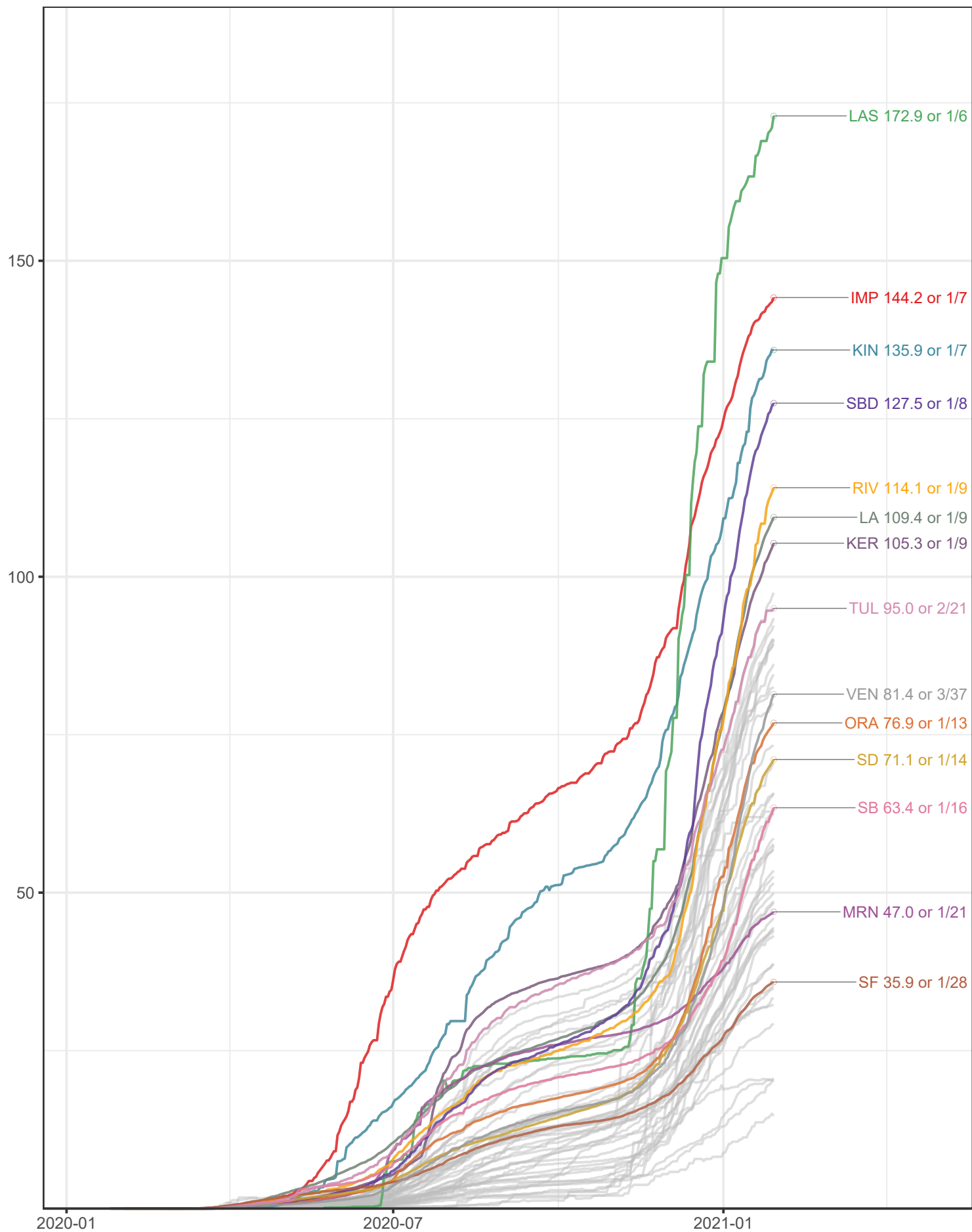
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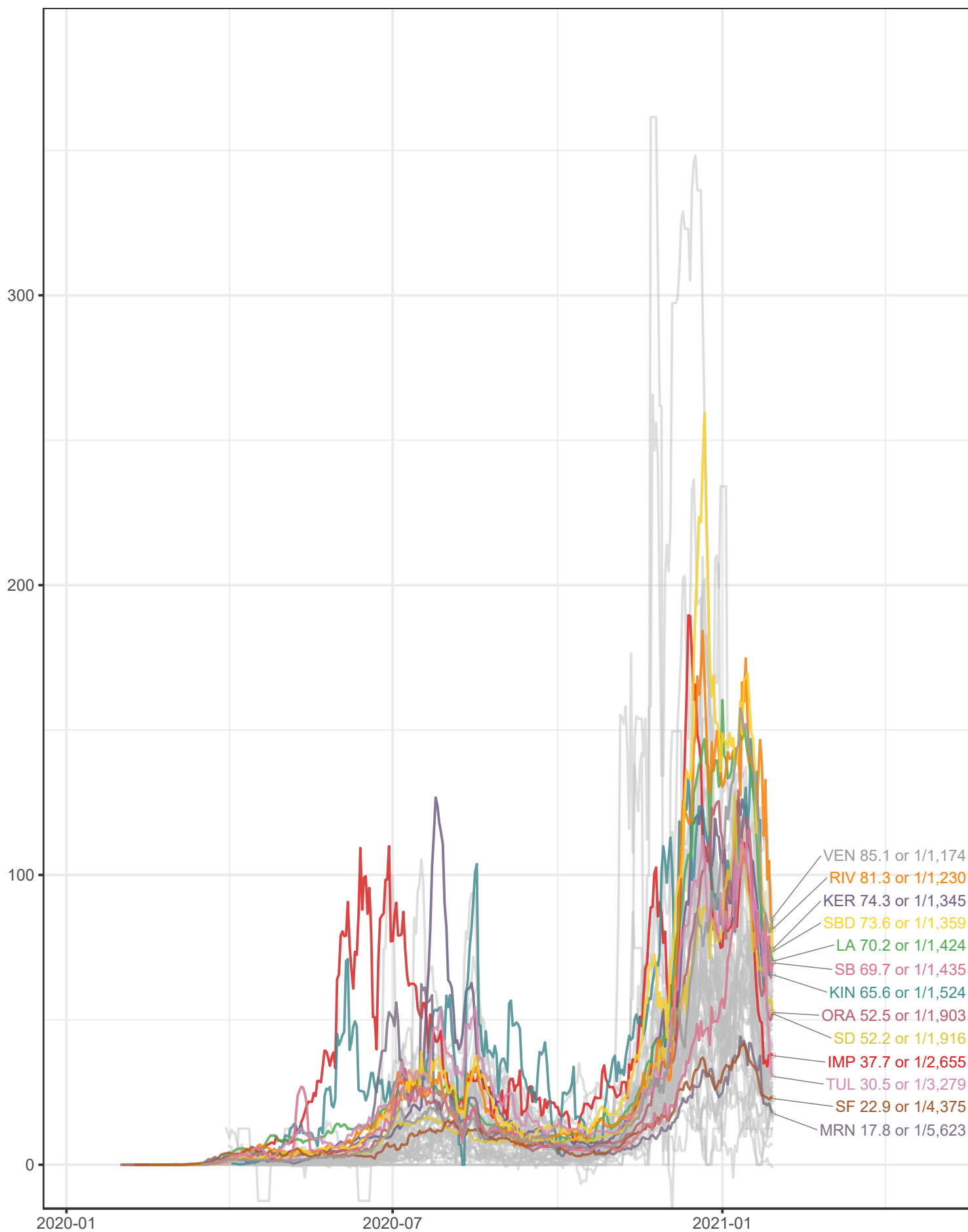
Cummulative cases per 1k persons for California counties

selected counties highlighted



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

selected counties highlighted



Sources: The New York Times, <https://github.com/nytimes/covid-19-data> accessed 2021-01-30 (Covid19)
 U.S. Census Bureau; American Community Survey, 2014-2018 5-year Estimates,
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