

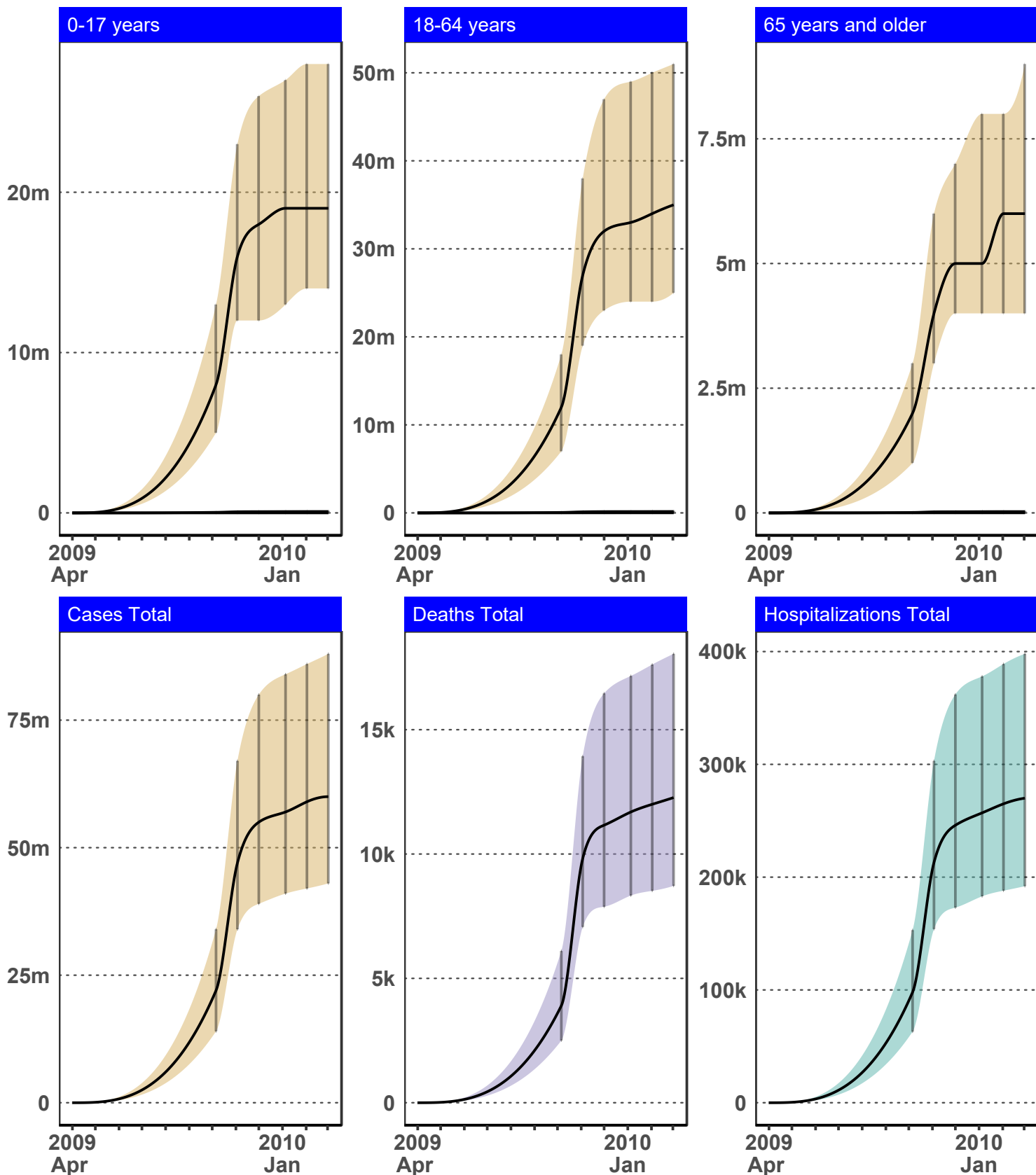
## 2009 H1N1 (swine flu pandemic) cases, deaths, and hospitalizations

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



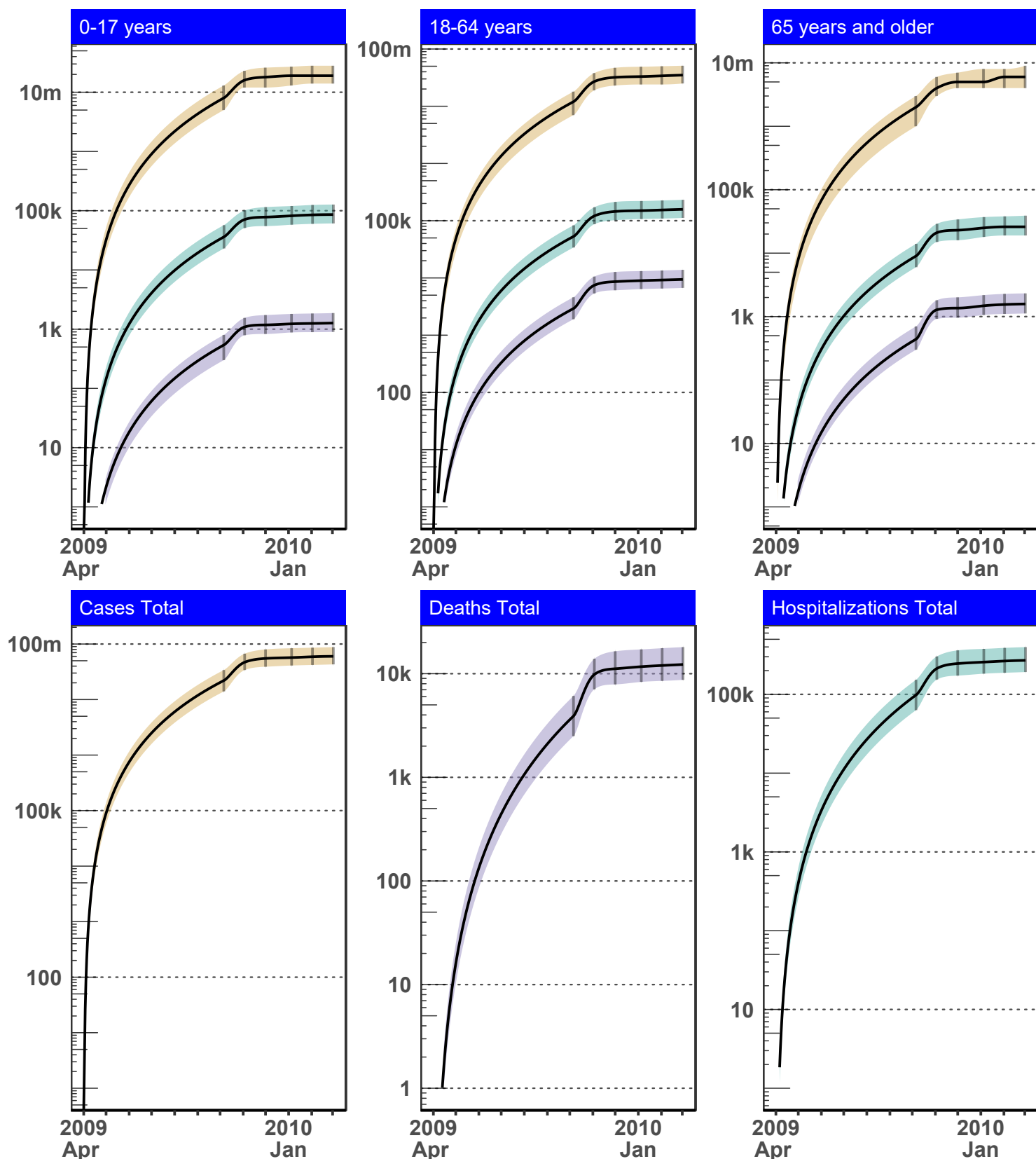
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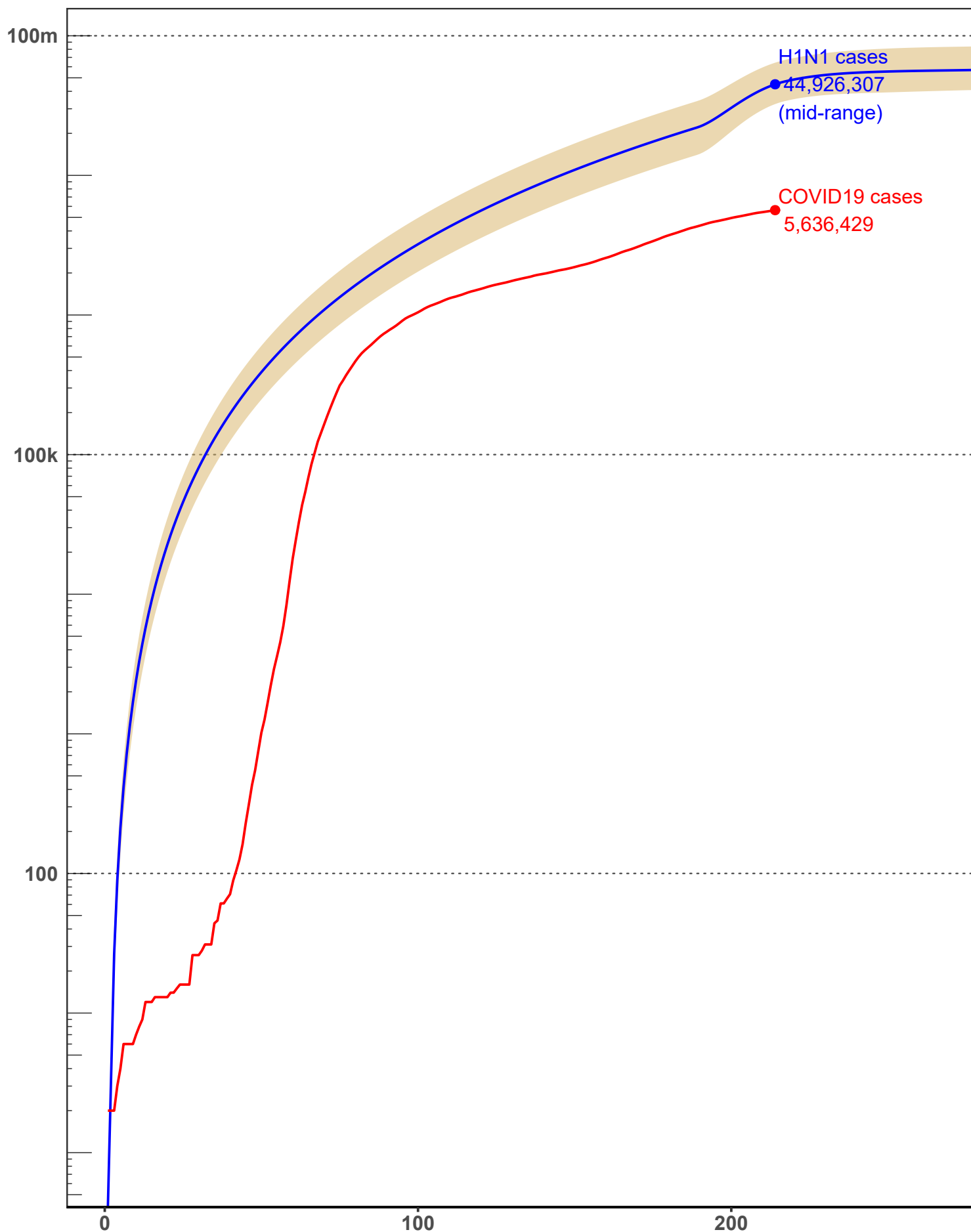
Note: y-axis is in log scale

Source: [https://www.cdc.gov/h1n1flu/estimates\\_2009\\_h1n1.htm](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

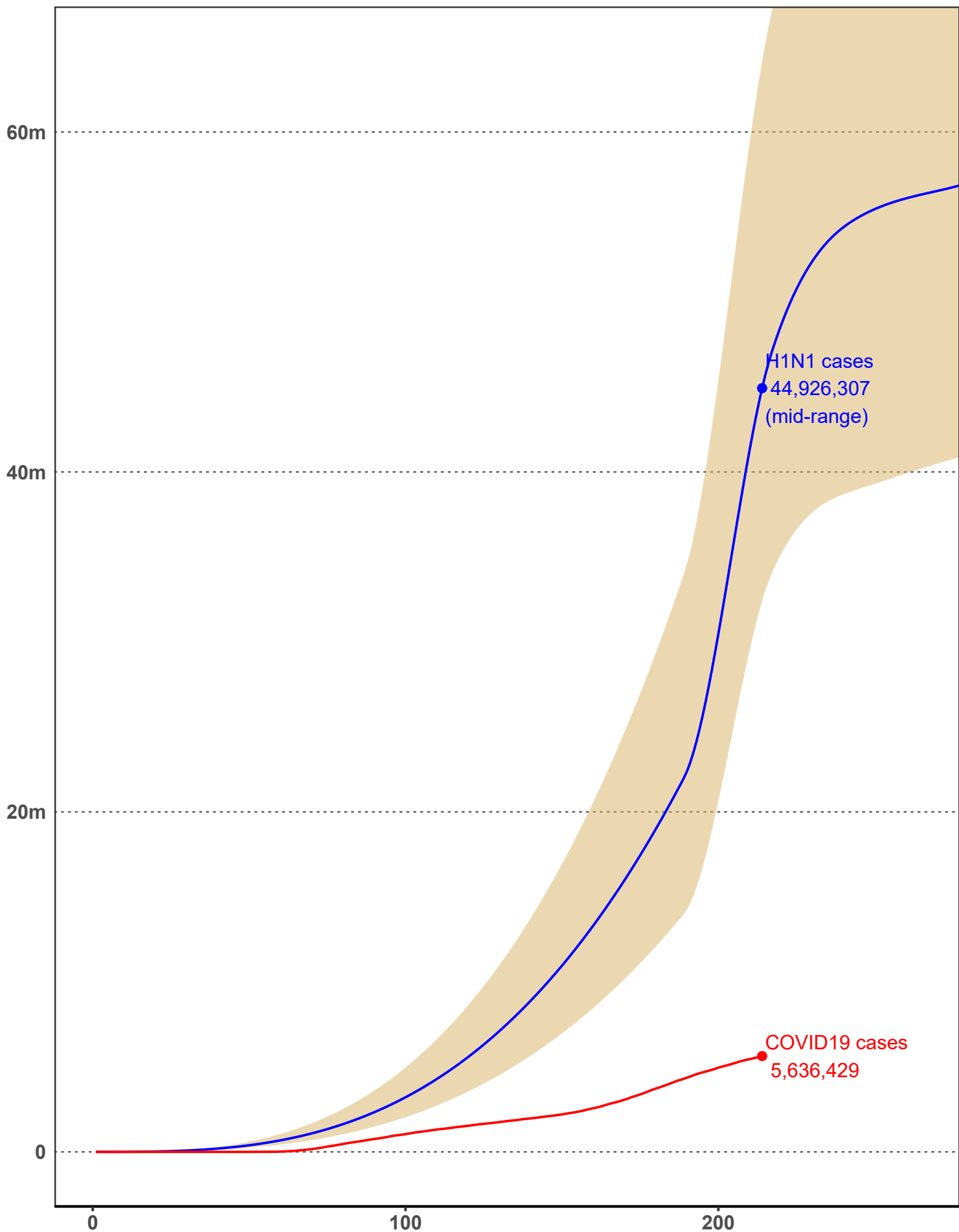
214 days after the first case



Note: y-axis is in log scale  
Sources: The New York Times, <https://github.com/nytimes/covid-19-data> accessed 2020-08-22 (Covid19);  
[https://www.cdc.gov/h1n1flu/estimates\\_2009\\_h1n1.htm](https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm) (H1N1)

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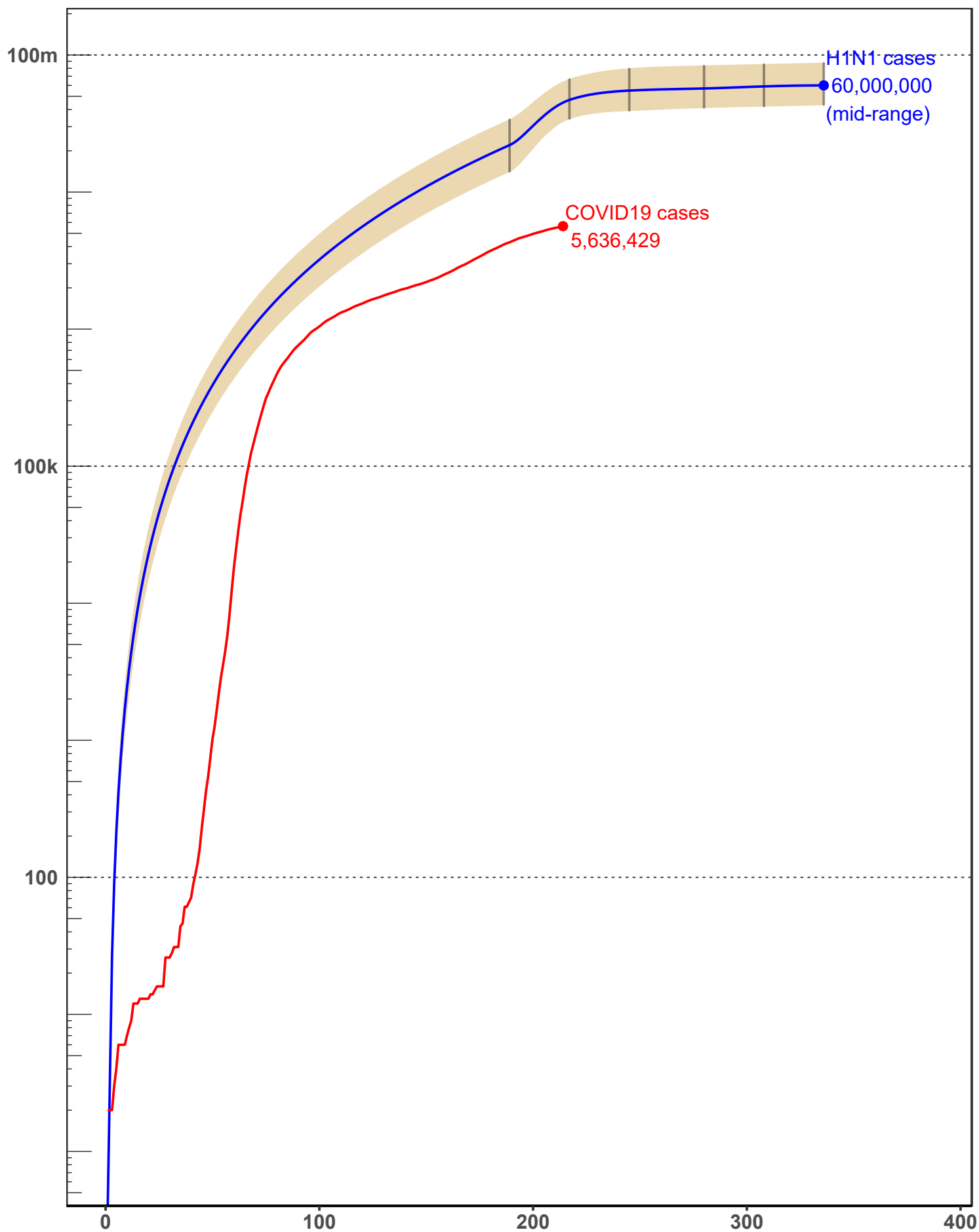
214 days after the first case



Sources: The New York Times, <https://github.com/nytimes/covid-19-data> accessed 2020-08-22 (Covid19); [https://www.cdc.gov/h1n1flu/estimates\\_2009\\_h1n1.htm](https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm) (H1N1)

# 2009 H1N1 cumulative cases by day vs Covid-19

336 days after the first case

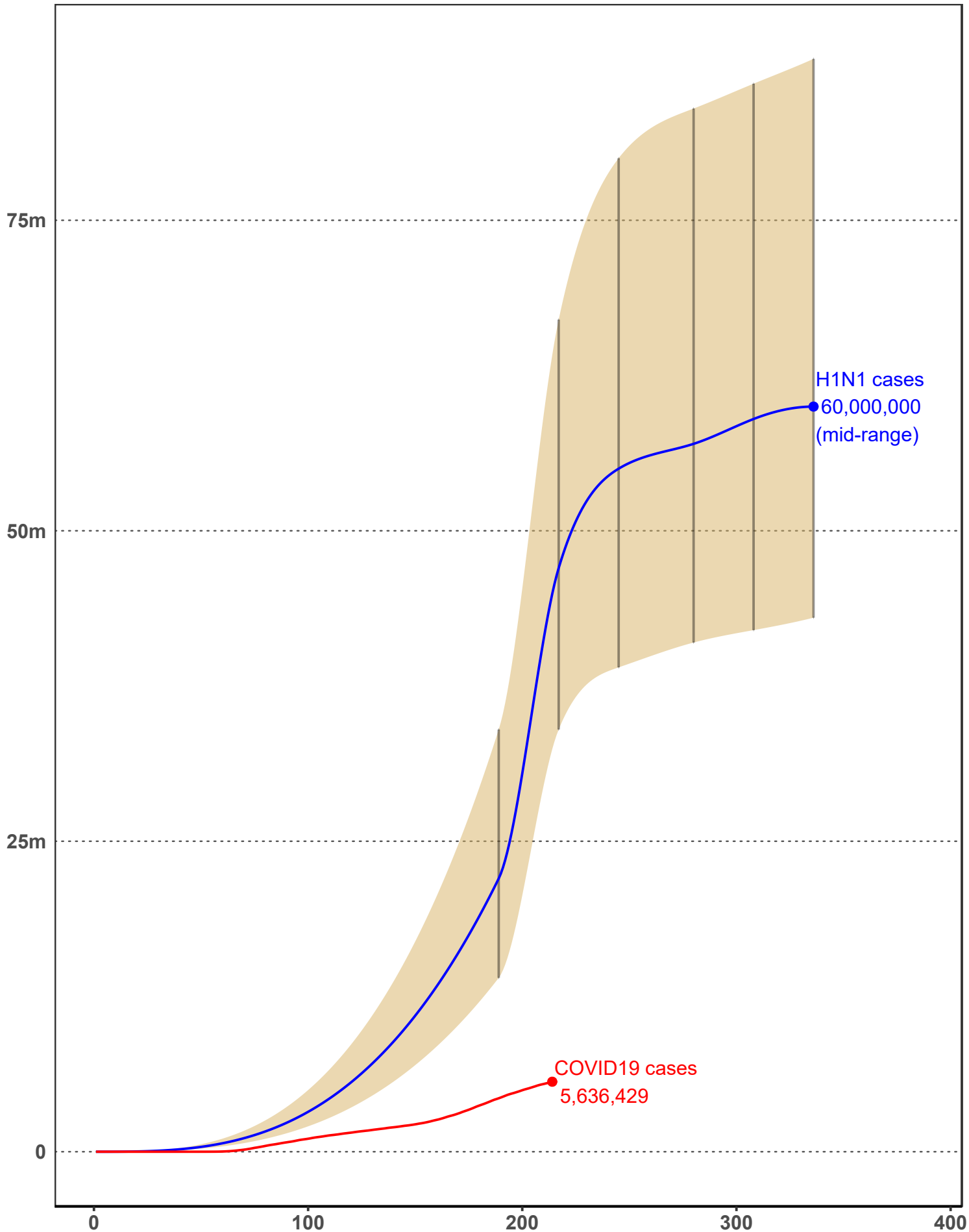


Note: y-axis is in log scale

Sources: The New York Times, <https://github.com/nytimes/covid-19-data> accessed 2020-08-22 (Covid19); [https://www.cdc.gov/h1n1flu/estimates\\_2009\\_h1n1.htm](https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm) (H1N1)

# 2009 H1N1 cumulative cases by day vs Covid-19

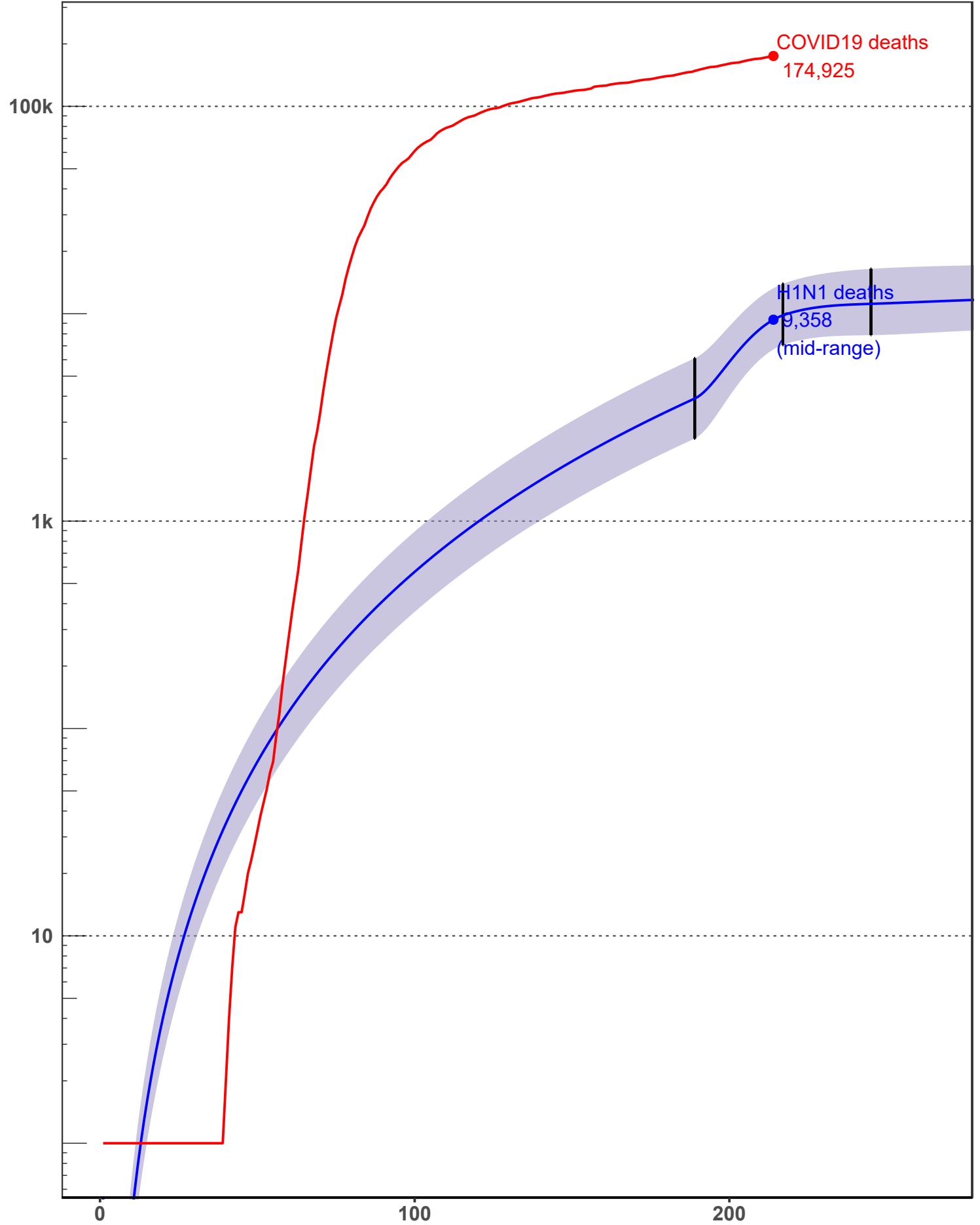
336 days after the first case



Sources: The New York Times, <https://github.com/nytimes/covid-19-data> accessed 2020-08-22 (Covid19); [https://www.cdc.gov/h1n1flu/estimates\\_2009\\_h1n1.htm](https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm) (H1N1)

2009 H1N1 estimated deaths by day vs Covid-19 deaths

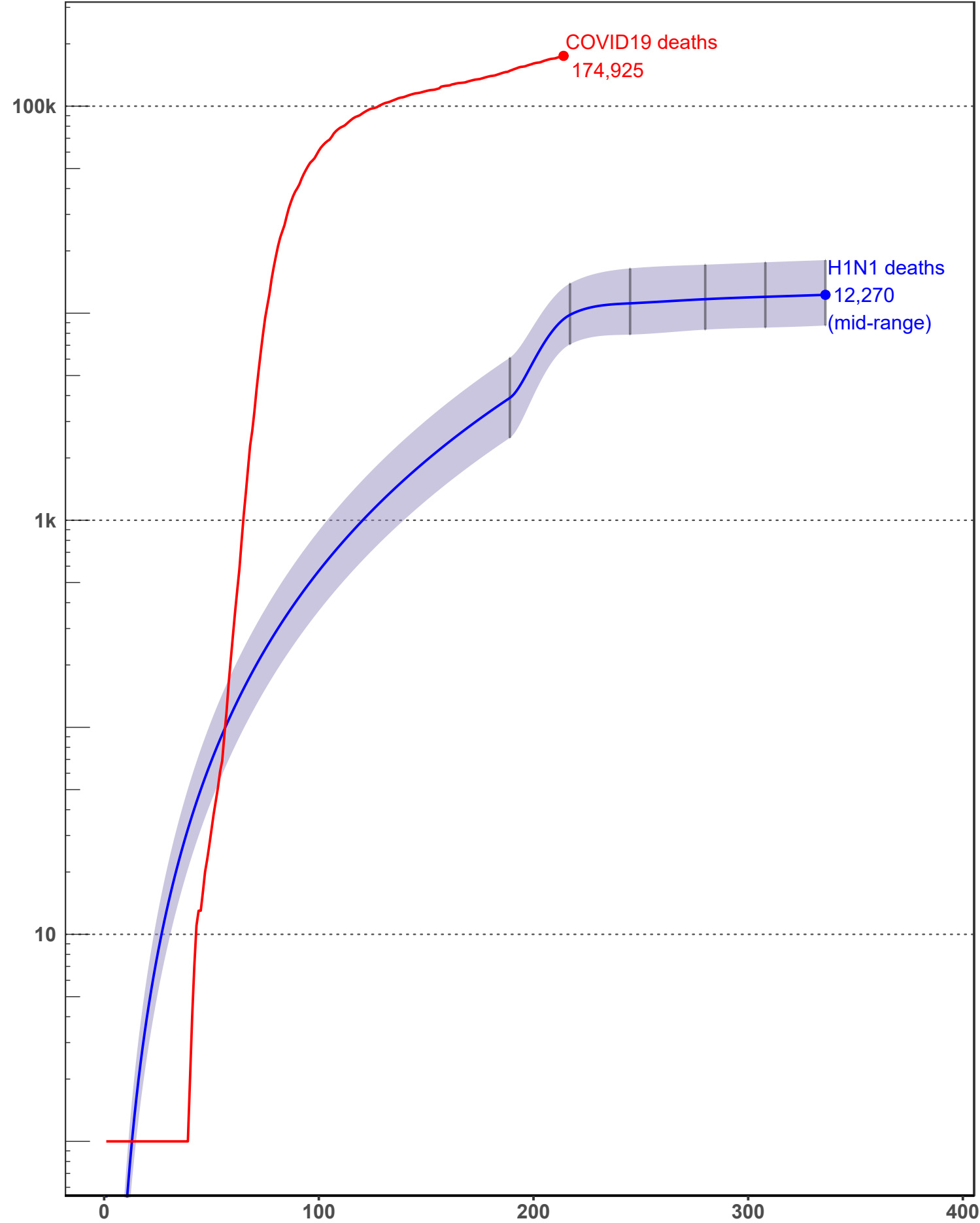
214 days after the first case



Note: y-axis is in log scale  
Sources: The New York Times, <https://github.com/nytimes/covid-19-data> accessed 2020-08-22 (Covid19);  
[https://www.cdc.gov/h1n1flu/estimates\\_2009\\_h1n1.htm](https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm) (H1N1)

2009 H1N1 estimated deaths by day vs Covid-19 deaths

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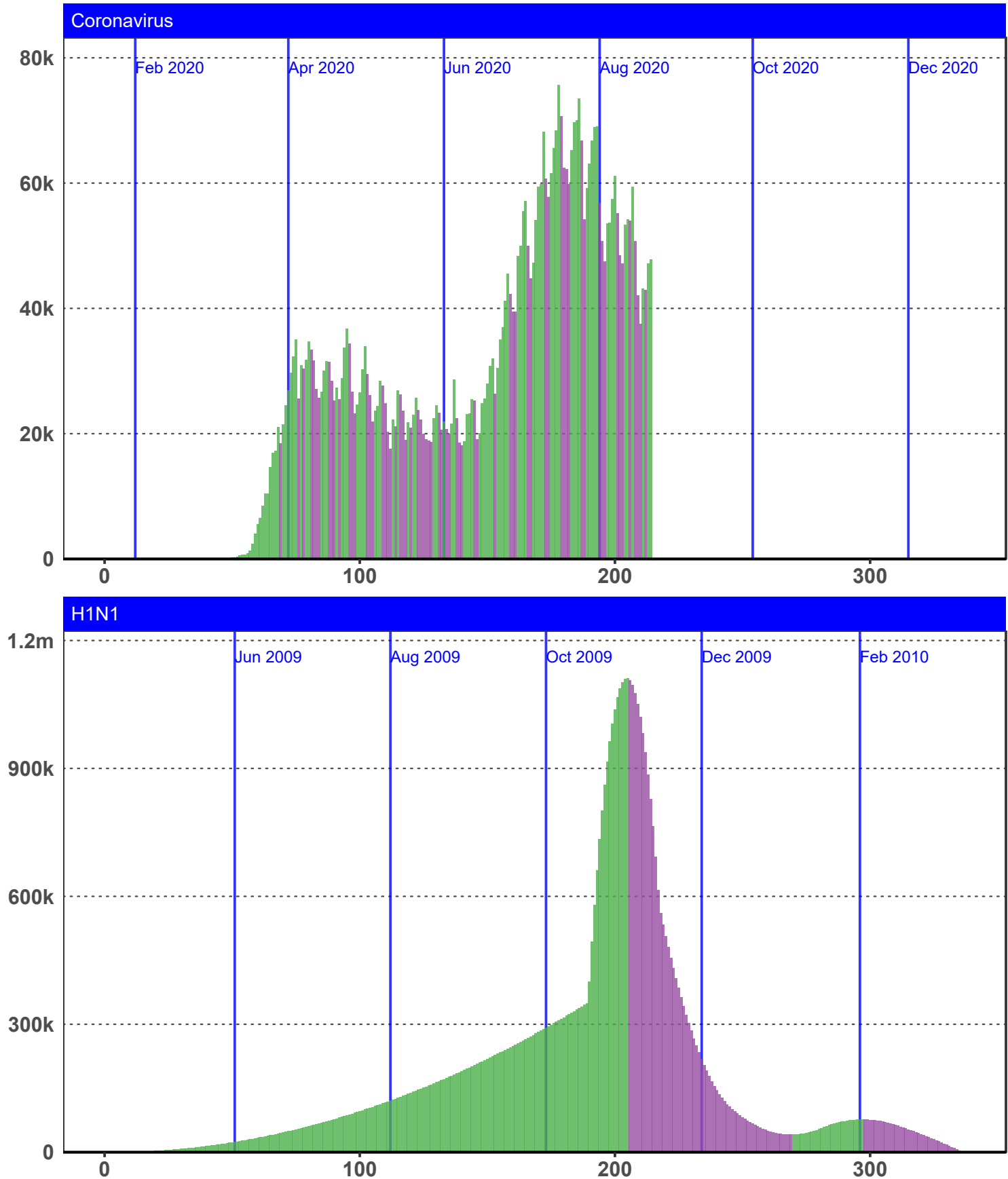


# 2009 H1N1 new cases by day vs Covid-19 cases

336 days after the first case

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

Change Type   ■ Decreased   ■ Increased   ■ Unchanged   ■ Other



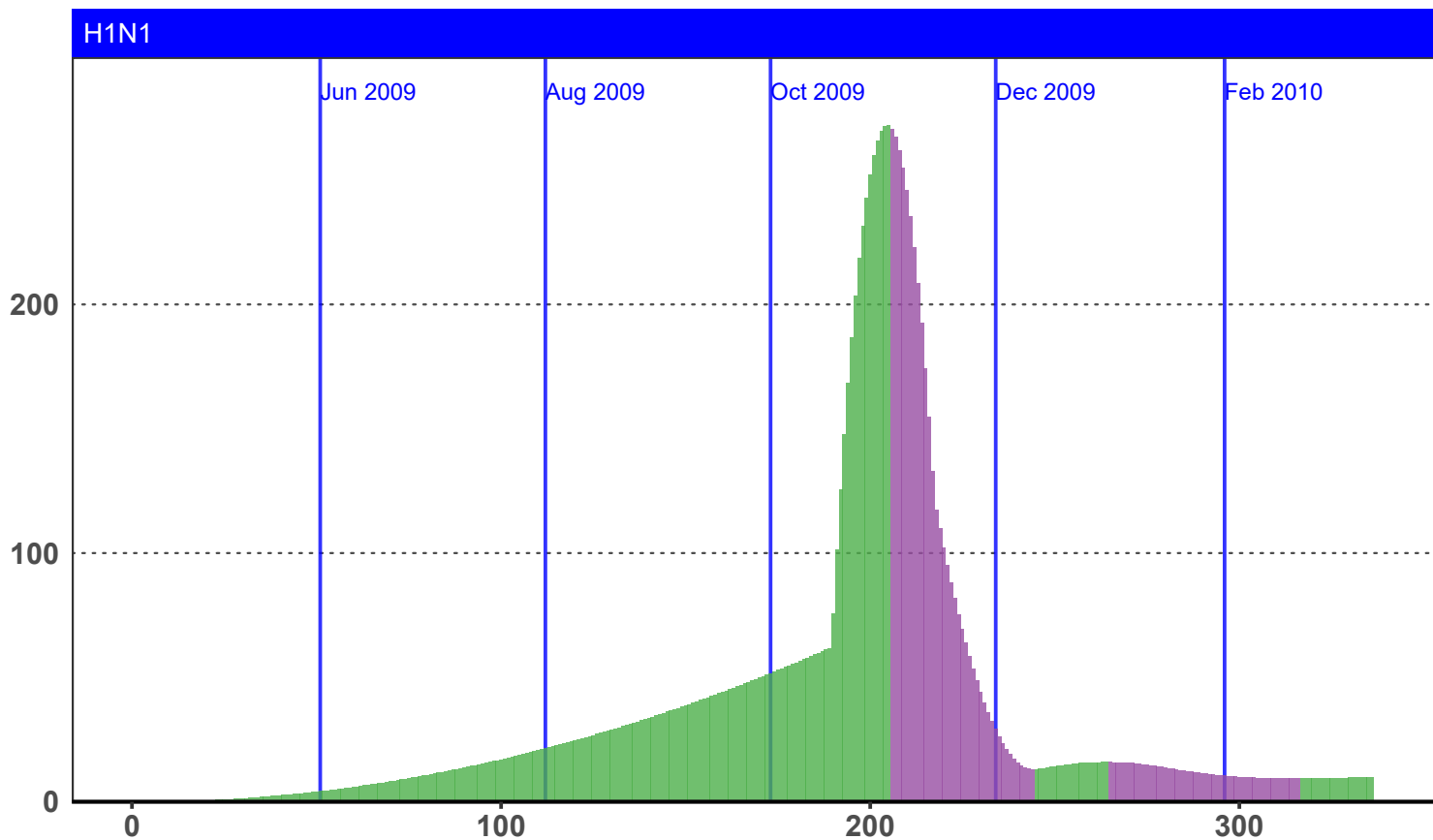
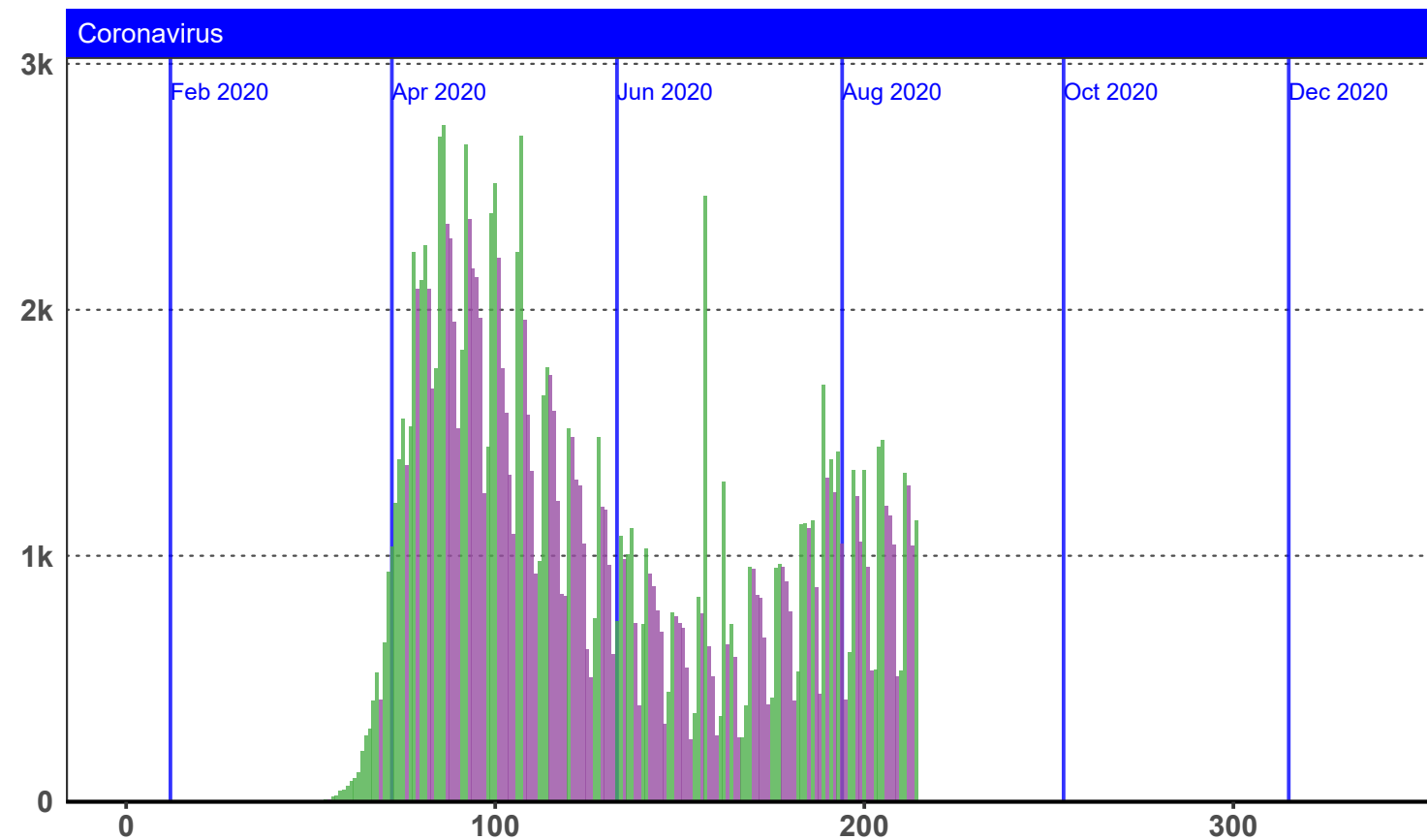
Sources: The New York Times, <https://github.com/nytimes/covid-19-data> accessed 2020-08-22 (Covid19); [https://www.cdc.gov/h1n1flu/estimates\\_2009\\_h1n1.htm](https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm) (H1N1)

# 2009 H1N1 new deaths by day vs Covid-19 deaths

336 days after the first case

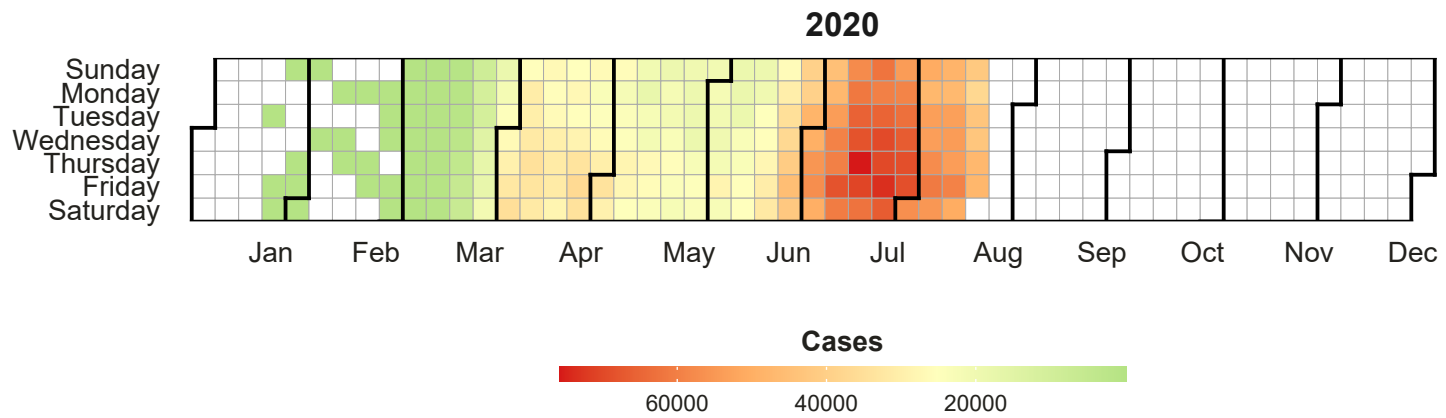
Vertical blue lines are for reference and placed every two months after the first case for each pandemic

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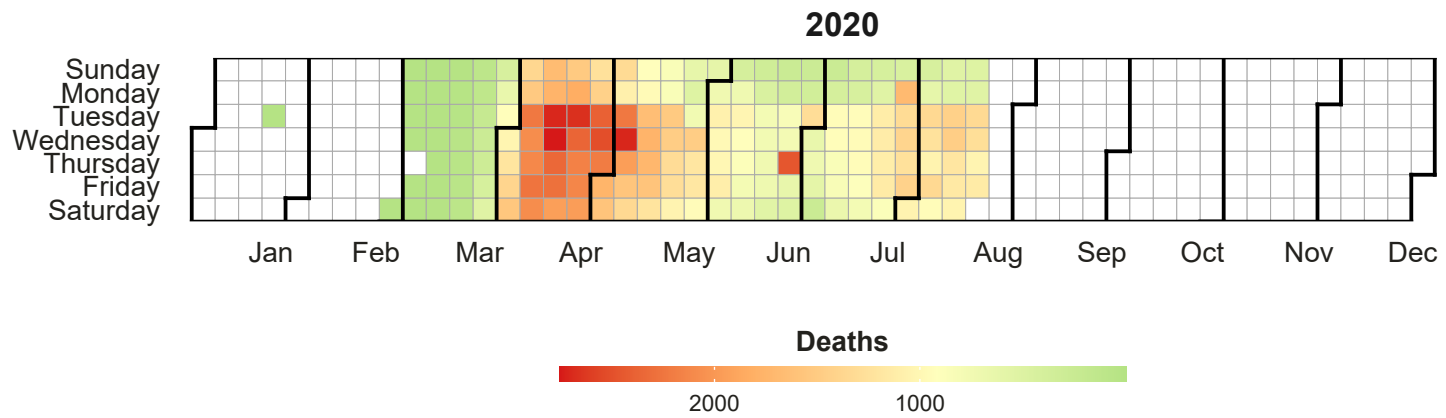


Sources: The New York Times, <https://github.com/nytimes/covid-19-data> accessed 2020-08-22 (Covid19);  
[https://www.cdc.gov/h1n1flu/estimates\\_2009\\_h1n1.htm](https://www.cdc.gov/h1n1flu/estimates_2009_h1n1.htm) (H1N1)

# COVID 19 Cases in the US



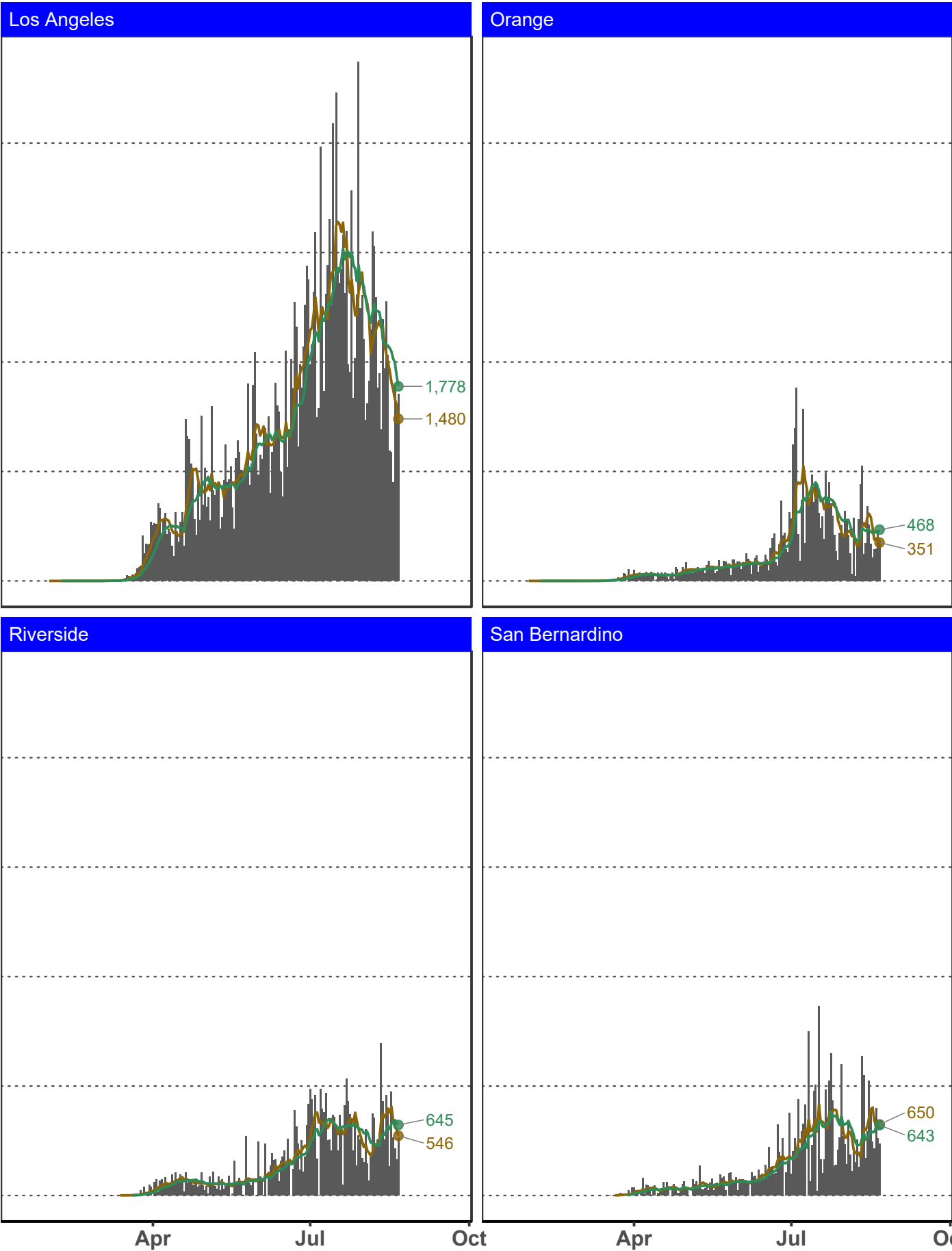
# COVID 19 Deaths in the US



# Rates by Counties

New cases, 7 and 14 days rolling average

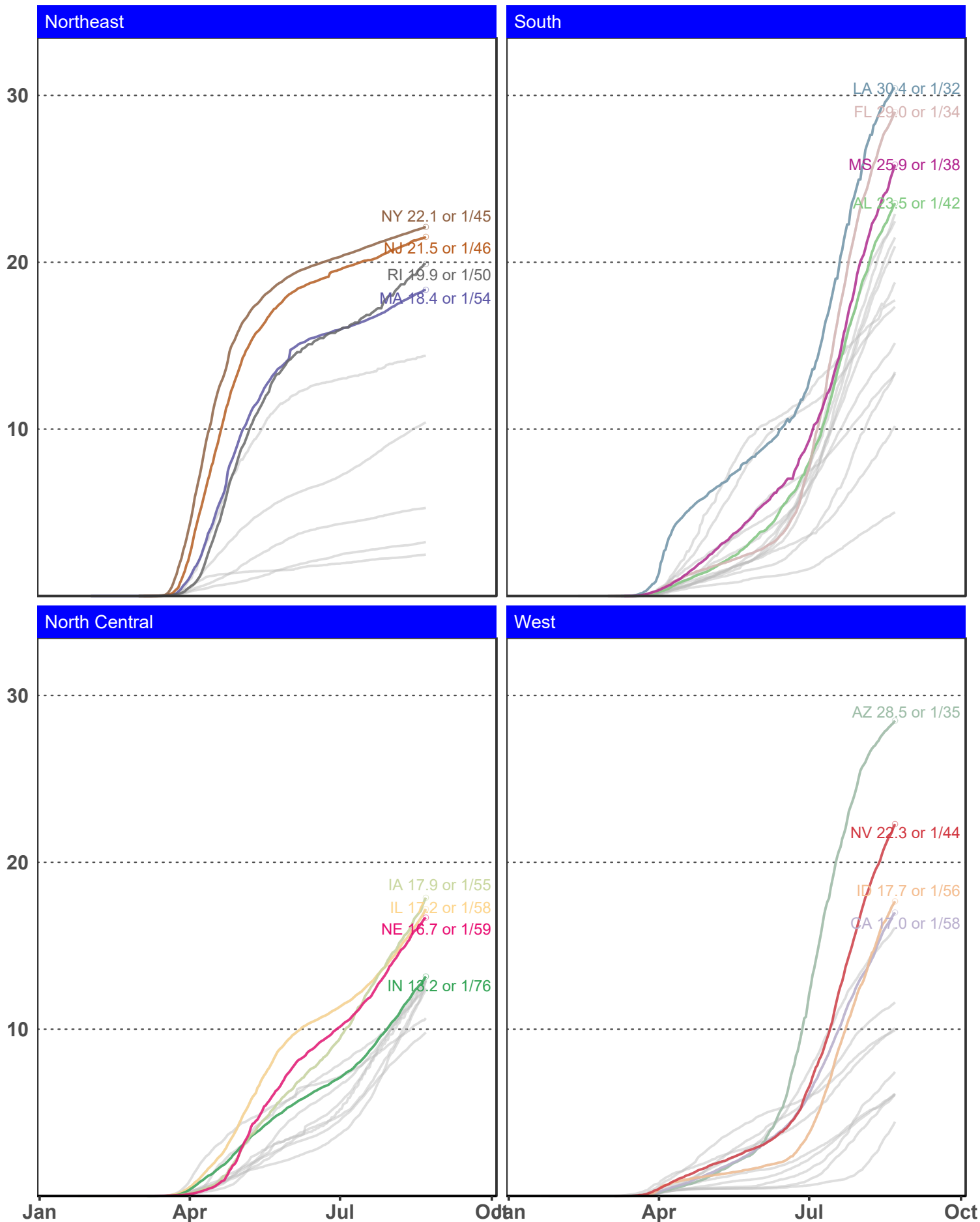
variable    ● rollingMean07Day    ● rollingMean14Day



Sources: The New York Times, <https://github.com/nytimes/covid-19-data> accessed 2020-08-22 (Covid19)

# 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 2020-08-22 (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

