More

Corona Virus Science

This blog explains some of the science related to the corona virus (COVID-19) e
perspective. Most posts contain links to the underlying research.

COVID-19 Model Projections

This page contains graphs with the latest COVID-19 projections for the US from the "Data Trend Model". Previous predictions can be downloaded from Github.

Last model run

May 2, 2020 with Johns Hopkins Data from 5/1/2020.

- **Total deaths predicted by 6/30/2020: 177,057** (yesterday:183,840 until 6/29)
- **Excluding New York & New Jersey: 121,457** (yesterday: 127,582 until 6/29)
- **Predicted daily cases on 6/30/2020: 21,388** (yesterday: 24,103)
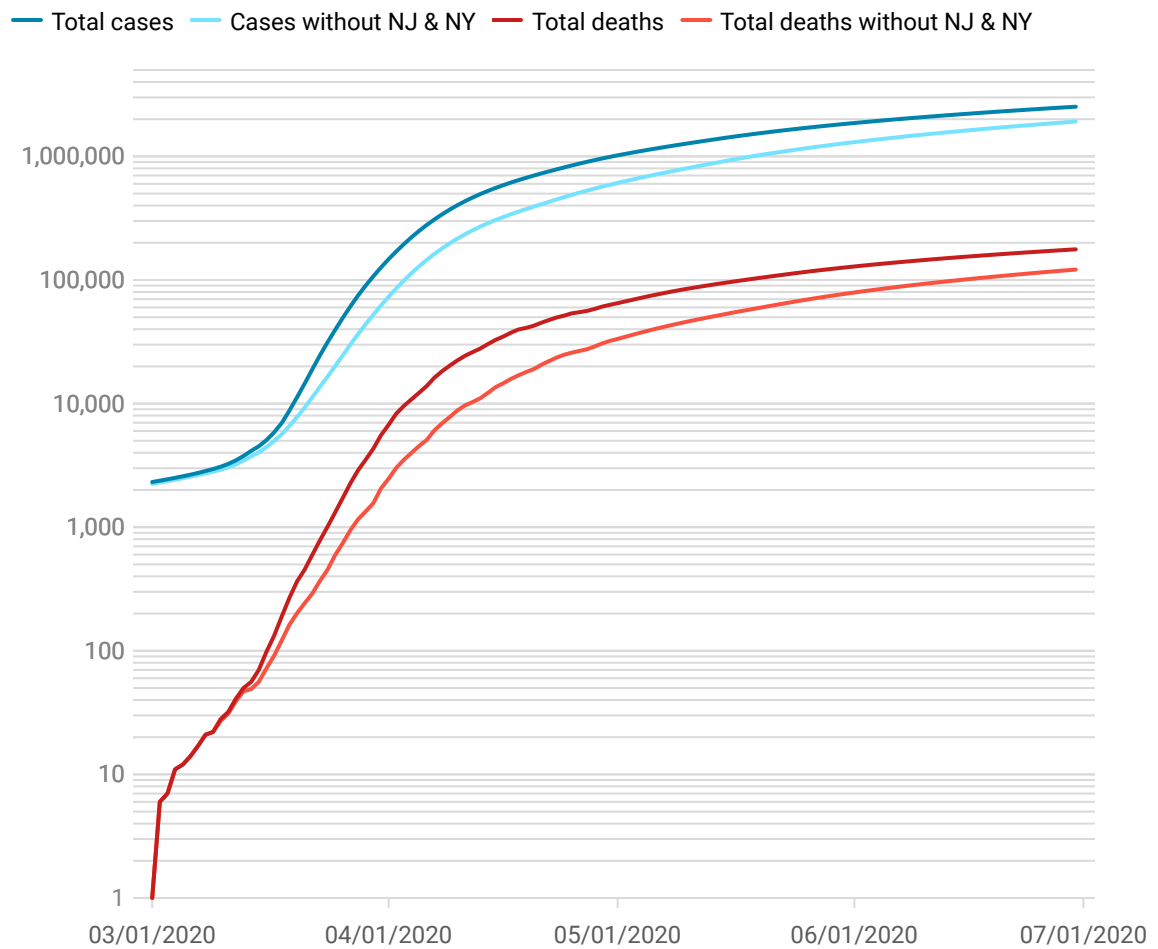- **Predicted daily death on 6/30/2020: 1,519** (~ 91,000 per 2 months)

Summary

Today's numbers are almost 4% lower to yesterday's numbers. This is primarily due to changes in two of the most heavily affected states, New Jersey and Massachusetts. The downward trend for New Jersey has accelerated. Massachusetts is showing a downward trend for the first time, after still showing an upward trend yesterday.

I have added the predicted number of daily cases at the end of the forecast period to the bullet points above. It will be interesting to see if and how much this number goes up now that several states have started to "re-open the economy". However, it may be more than a month before we see any large increases. One reason is that people will probably be cautious initially, which will keep new transmissions lower. But even when new infections rise, it will take about two weeks before they show up in the "confirmed case" numbers, since it can take a week before symptoms develop, and another week before the test results are known and included in the reported numbers. Predictions by the model will be even slower to react to any uptick in numbers due to the various averaging methods used to eliminate day-to-day variations in the data.
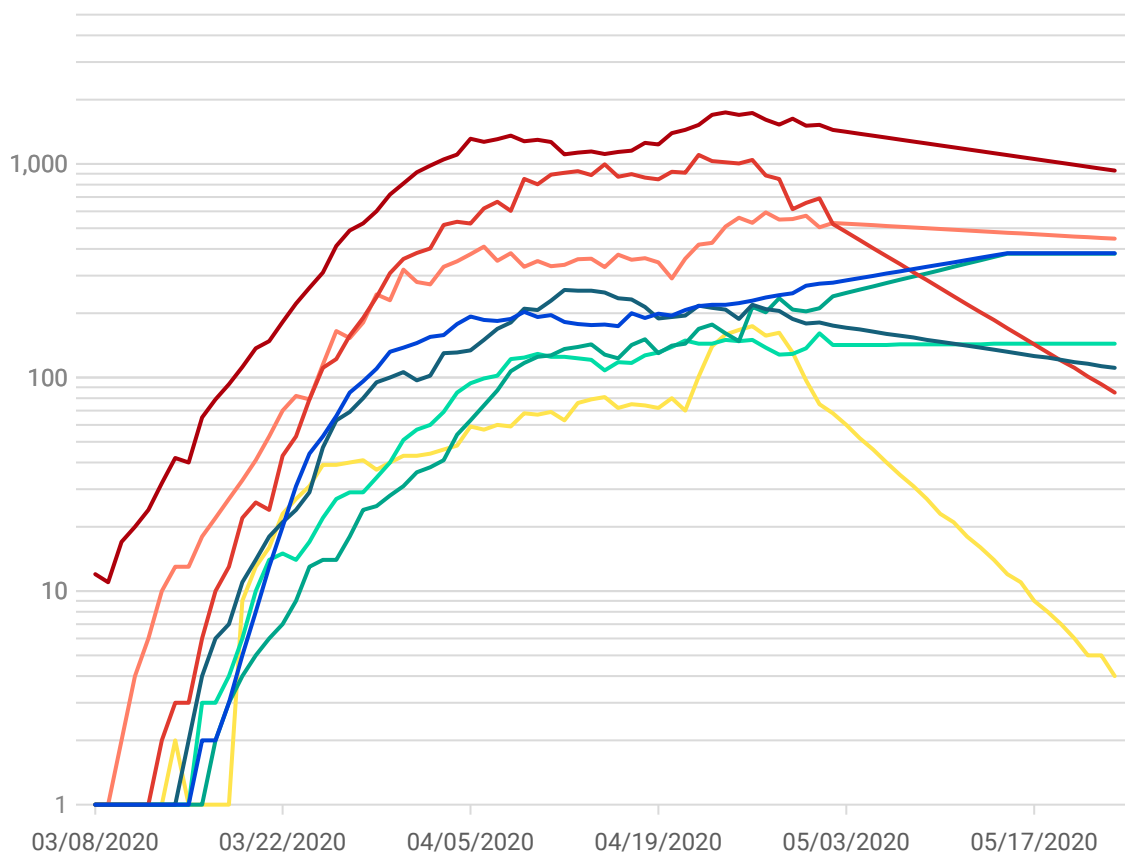
Total projected COVID-19 cases and deaths

Future growth in cases per day limited to 14 days

— Total cases   — Cases without NJ & NY   — Total deaths   — Total deaths without NJ & NY

Get the data • Created with Datawrapper

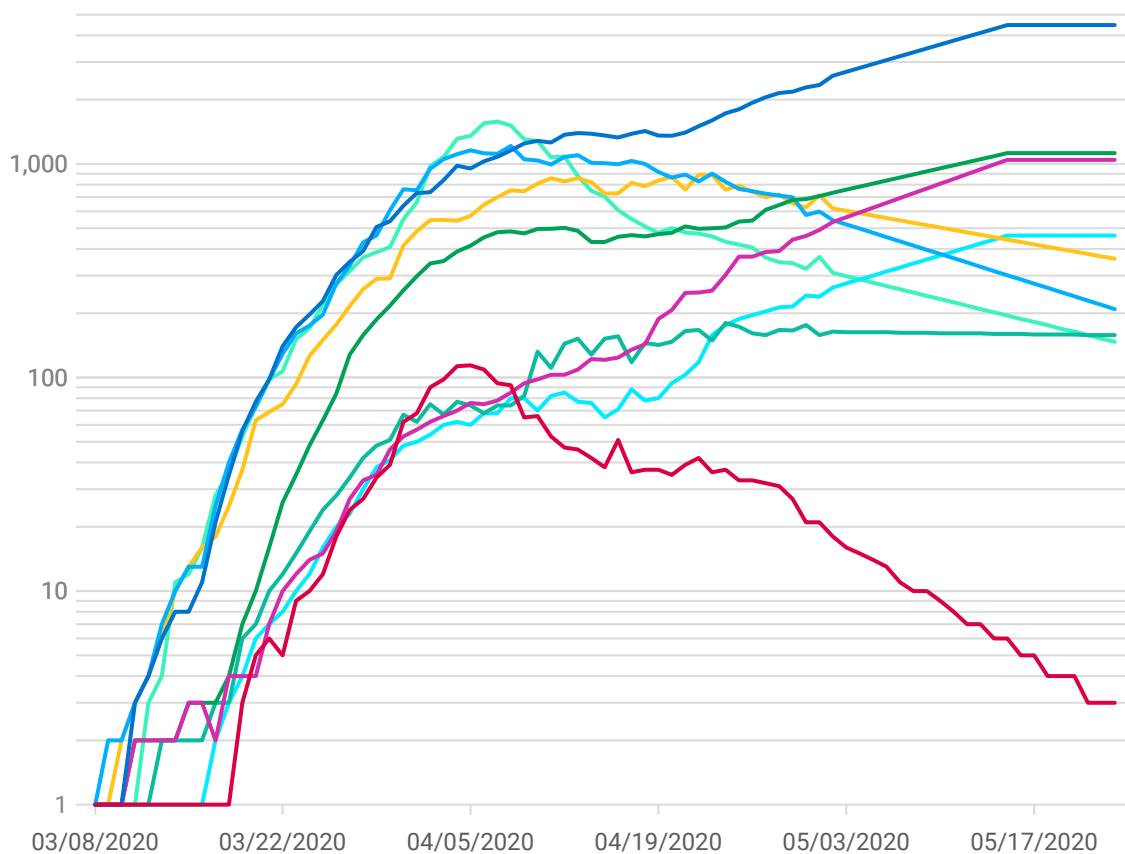## Actual and projected daily COVID-19 cases by state (AL-DC)

— Alabama   — Arizona   — Arkansas   — California   — Colorado   — Connecticut   — Delaware

— District of Columbia

Get the data · Created with Datawrapper

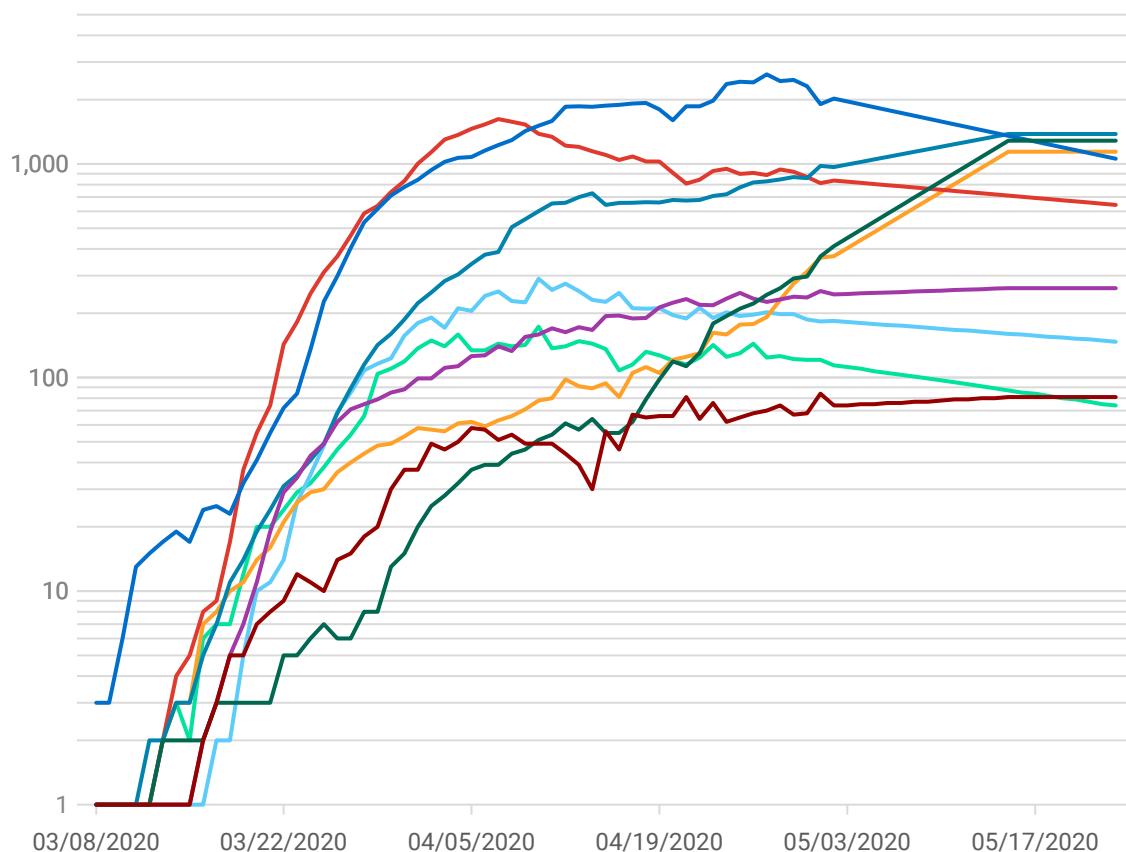# Actual and projected daily COVID-19 cases by state (FL-LA)

— Florida   — Georgia   — Idaho   — Illinois   — Indiana   — Iowa   — Kansas   — Kentucky
— Louisiana

Get the data • Created with Datawrapper

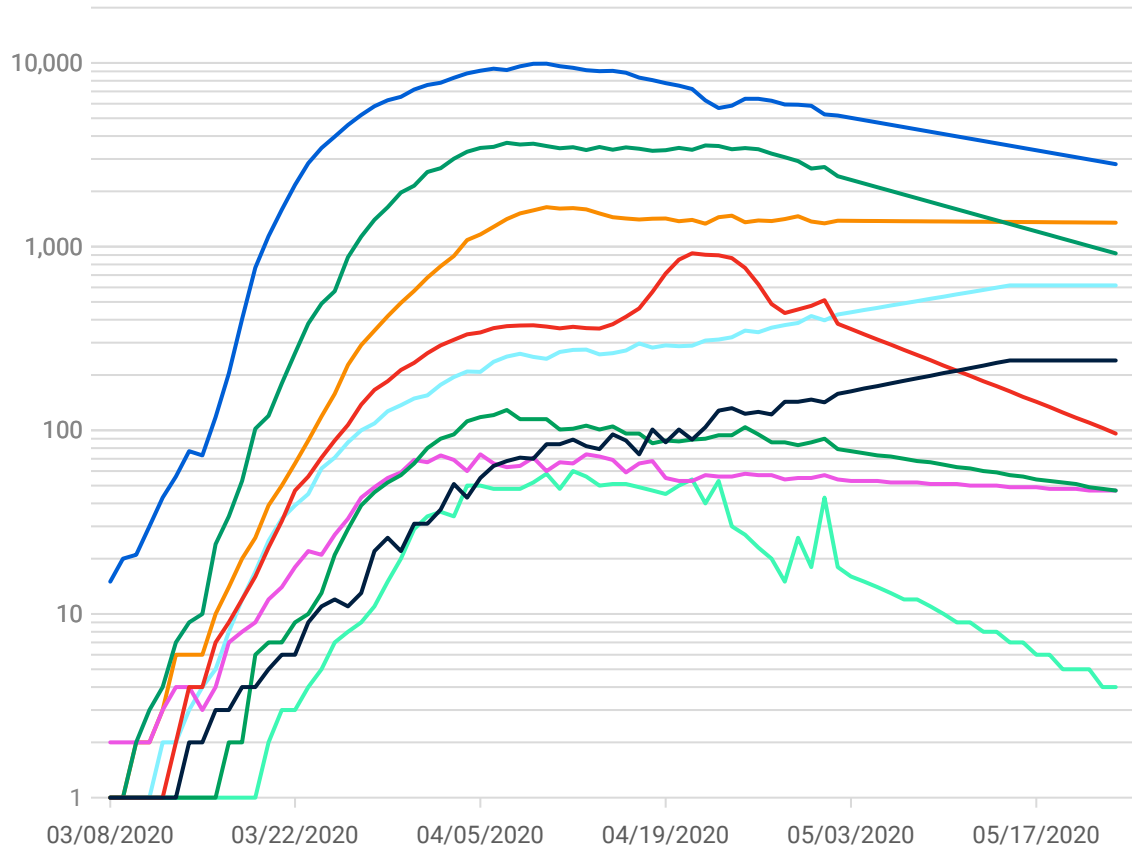## Actual and projected daily COVID-19 cases by state (MD-NH)

— Maryland　— Massachusetts　— Michigan　— Minnesota　— Mississippi　— Missouri
— Nebraska　— Nevada　— New Hampshire

Get the data • Created with Datawrapper

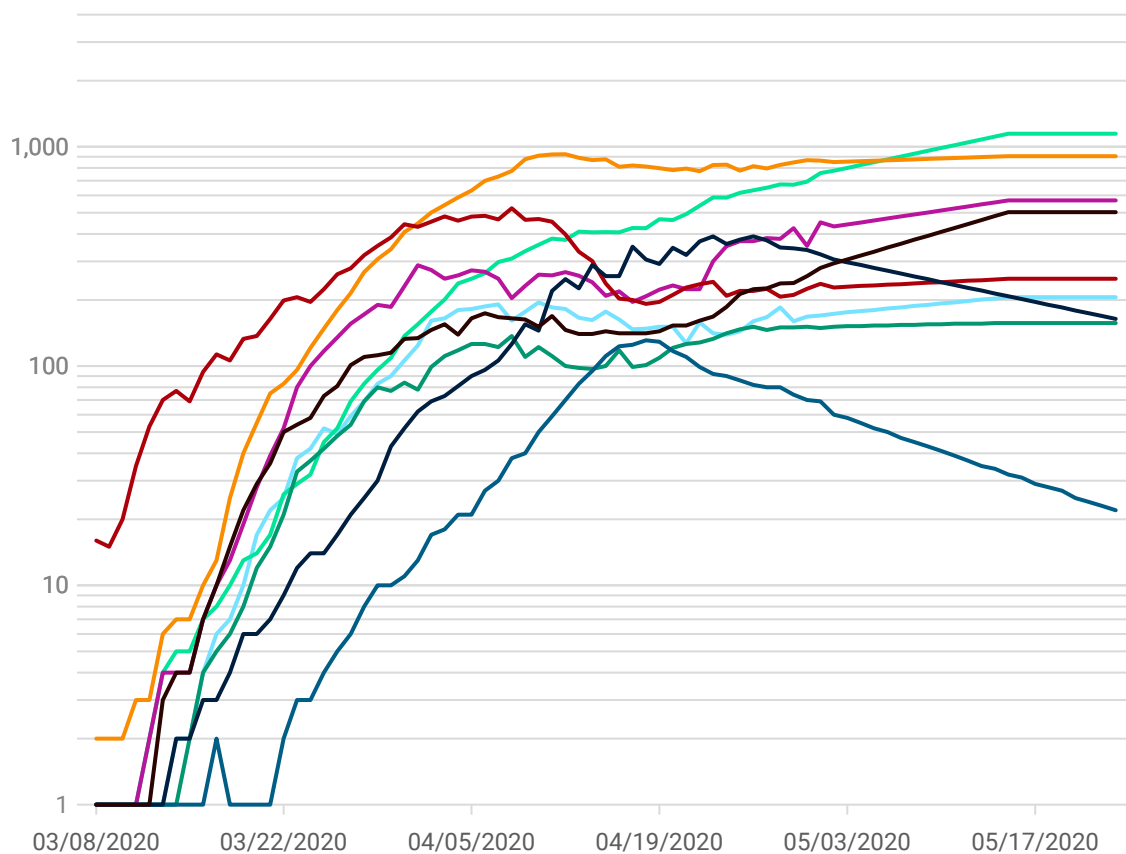## Actual and projected daily COVID-19 cases by state (NM-PR)

— New Jersey — New Mexico — New York — North Carolina — Ohio — Oklahoma — Oregon
— Pennsylvania — Puerto Rico

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Actual and projected daily COVID-19 cases by state (RI-WI)

— Rhode Island   — South Carolina   — South Dakota   — Tennessee   — Texas   — Utah   — Virginia
— Washington   — Wisconsin

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