

More

# Corona Virus Science

This blog explains some of the science related to the corona virus (COVID-19) € 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

April 28, 2020 with Johns Hopkins Data from 4/27/2020.

- **Total deaths predicted by 6/26/2020: 180,402** (yesterday: 214,8361 until 6/25)
- **Excluding New York & New Jersey: 119,558** (yesterday: 157,488 until 6/25)
- **Predicted daily death on 6/26/2020: 1,759** (~ 105,000 per 2 months)

### Summary

Today's numbers are significantly lower than yesterday's due to a change in how projected deaths are calculated. Rather than using a uniform case fatality rate (CFR) for all state as in the past, today's run used state-specific CFRs for each state that had at least 100 COVID-19 deaths, and a pooled CFR for all other states. This change was necessary because the amount of testing varies dramatically between states. States that test more relative to the number of deaths have a lower CFR; states where testing is more limited have a higher CFR. The observed CFRs used in this model ranged from 2.8% to 12.9%.

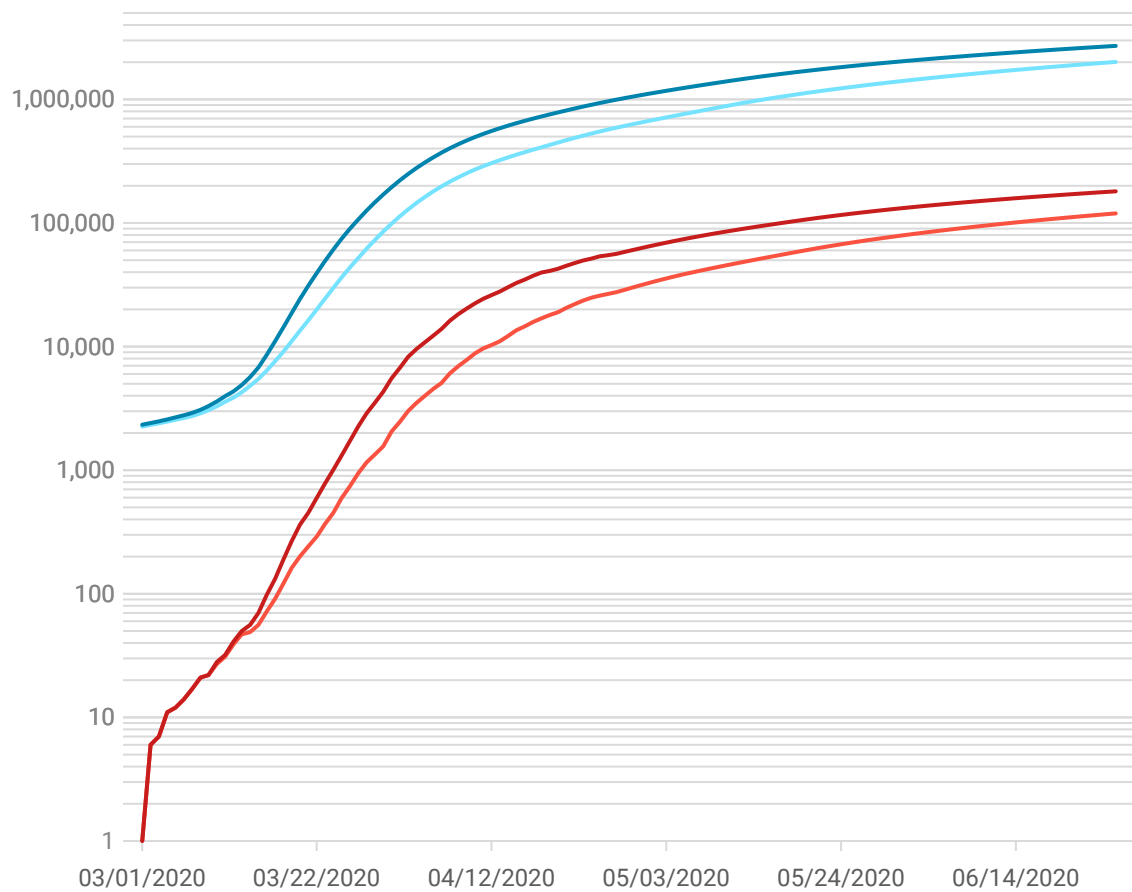
It is likely that the amount of testing will continue to differ substantially between states. Some states, for example Tennessee, have increased testing substantially, and now offer testing to anyone who wants a test, even if they do not have symptoms. Other states still have more restrictive rules due to limited test capacity. By using state-specific CFRs, the predicted number of deaths should be more accurate.

For many states in today's run that show a recent and projected increase in cases, the increase is probably due to increased testing. The projected rapid decline in Ohio is likely to be an artifact caused by the recent "bump" from testing prisoners.

## Total projected COVID-19 cases and deaths

Future growth in cases per day limited to 14 days

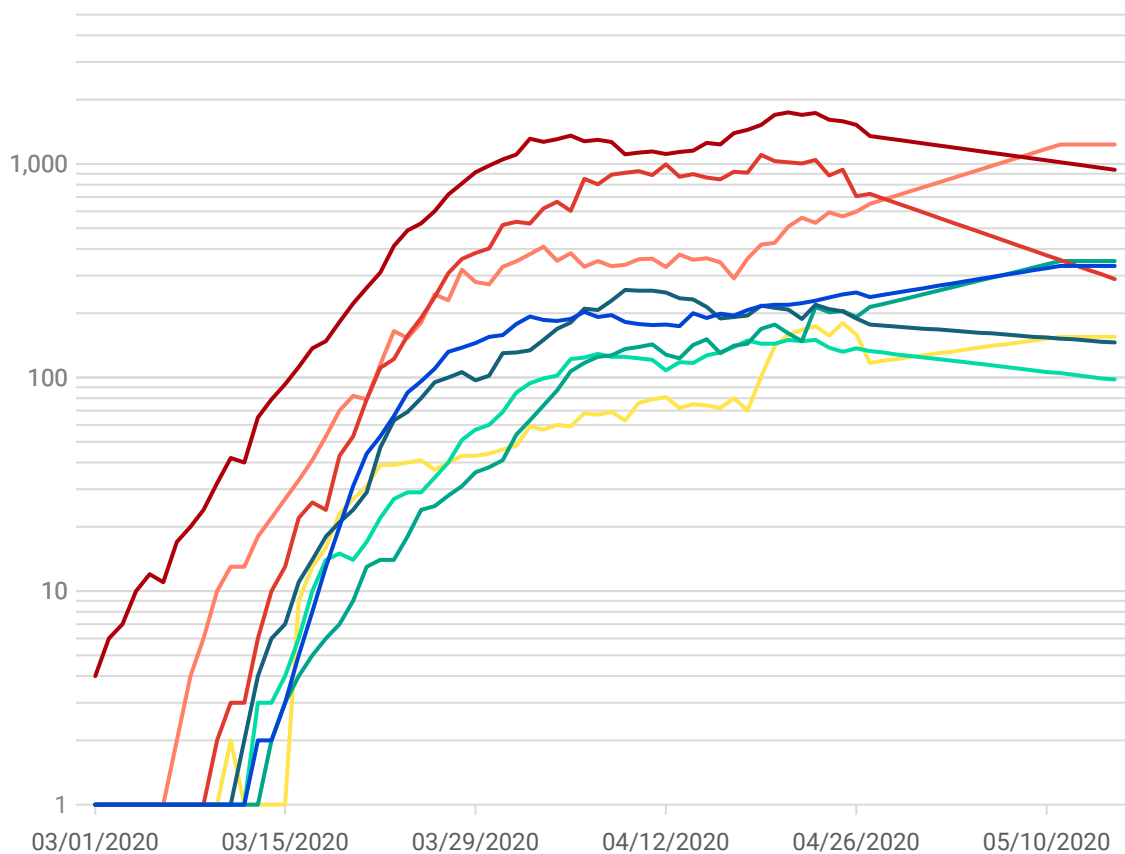
— Total cases — Cases without NJ & NY — Total deaths — Total deaths without NJ & NY



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

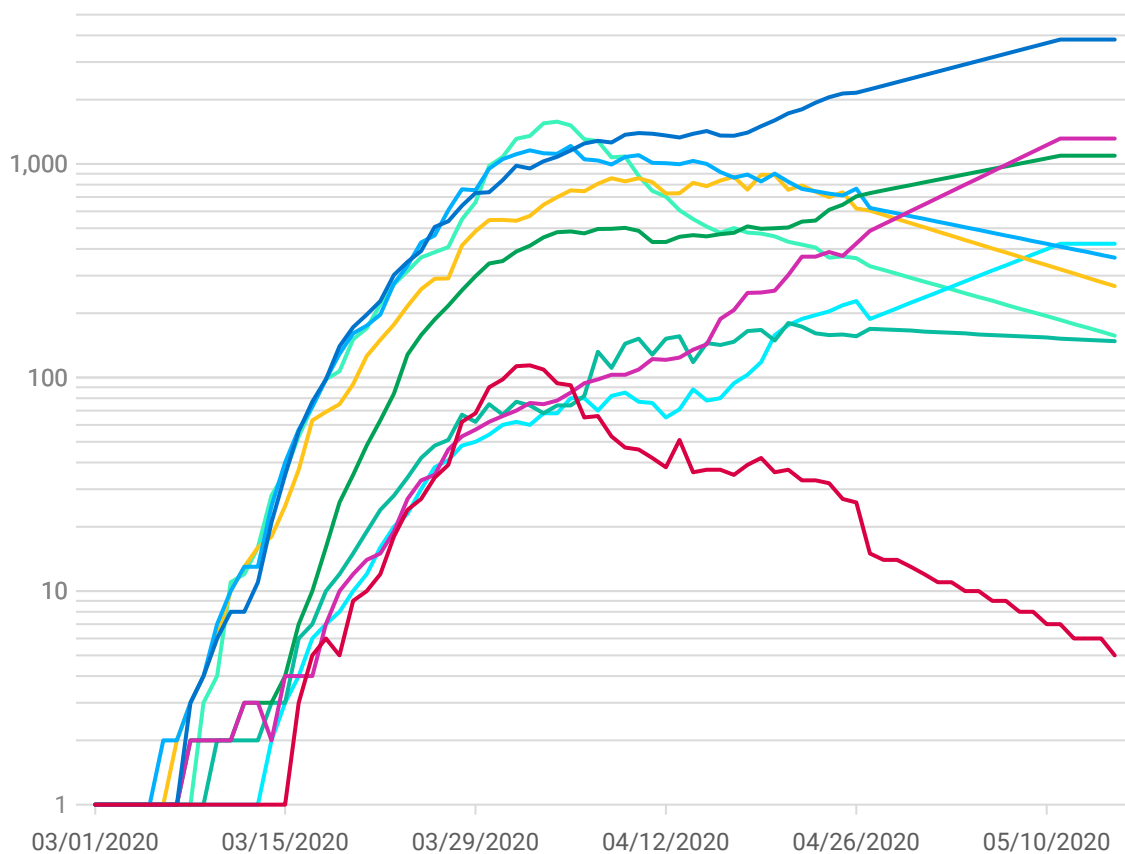
Alabama Arizona Arkansas California Colorado Connecticut Delaware  
District of Columbia



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

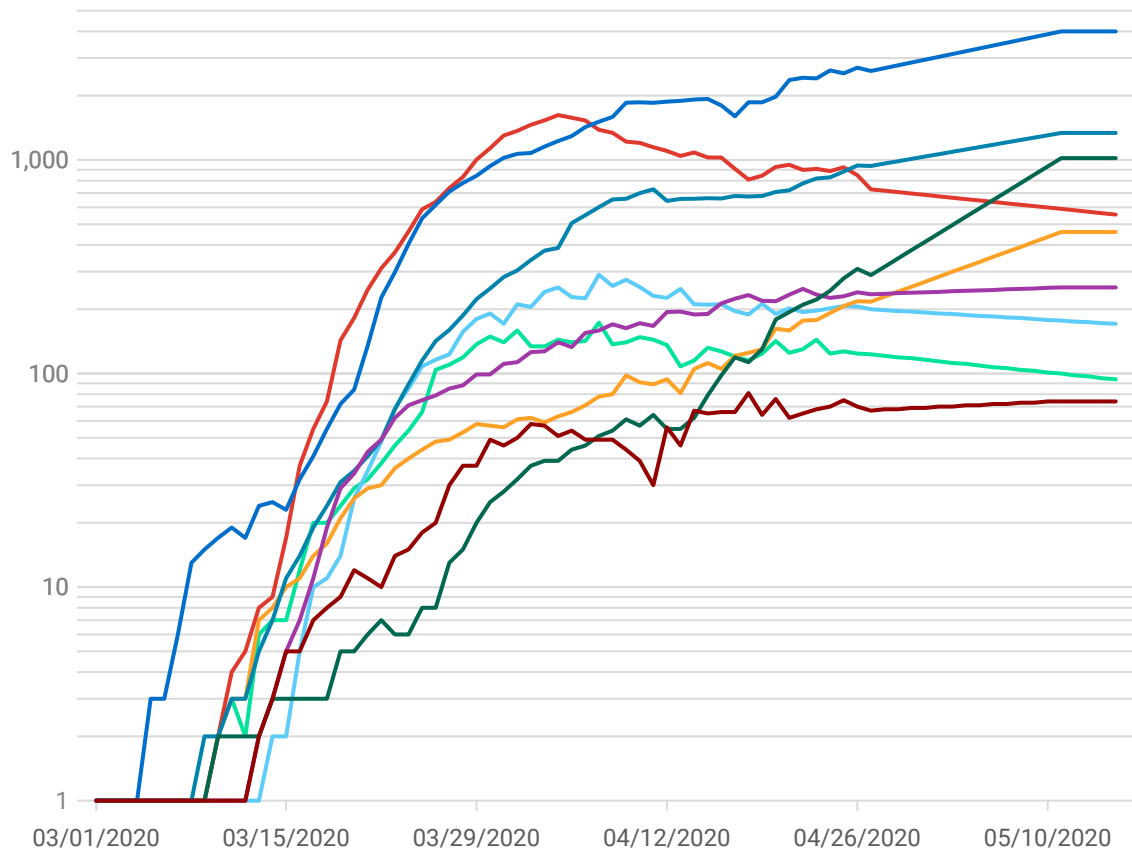
Florida Georgia Idaho Illinois Indiana Iowa Kansas Kentucky  
Louisiana



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

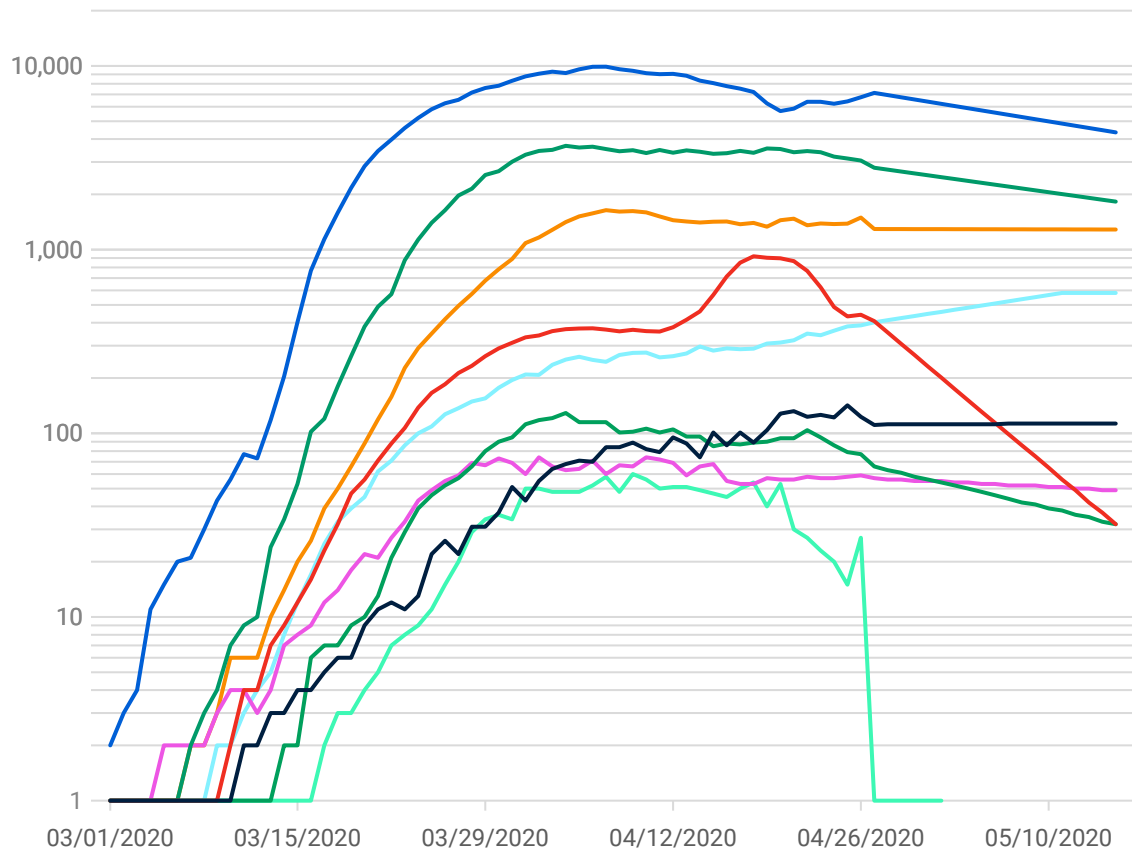
— Maryland — Massachusetts — Michigan — Minnesota — Mississippi — Missouri — Nebraska — Nevada — New Hampshire



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

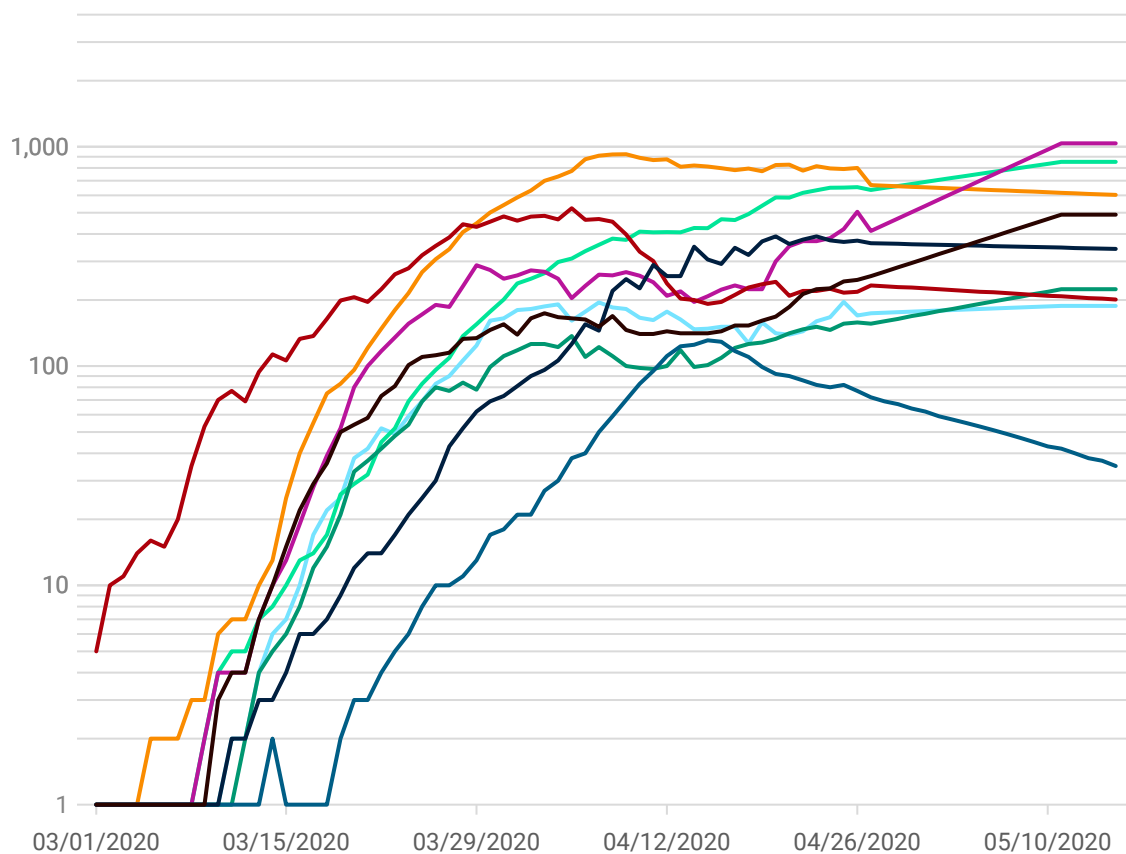
New Jersey New Mexico New York North Carolina Ohio Oklahoma Oregon  
Pennsylvania Puerto Rico



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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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