

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

June 10, 2020 with Johns Hopkins Data from 6/9/2020.

- **Predicted daily deaths on 8/8/2020: 1,232** (yesterday: 944; ~ 74,000 per 2 months)
- **Predicted daily cases on 8/8/2020: 22,786** (yesterday: 20,772)
- **Total deaths predicted by 8/8/2020: 186,514** (yesterday: 173,069 until 8/7)
- **Excluding New York & New Jersey: 140,845** (yesterday: 127,193 until 8/7)

*Please note that the numbers are distorted by bad reporting and recent reporting changes in Michigan, as explained below.*

### Summary

Today's numbers show relatively large increases over yesterday. These increases appear to be mostly an artifact from recent changes in Michigan's reporting: on 6/5/2020, Michigan started to include "probable" COVID-19 cases, and reported 5,759 new COVID-19 cases, which included all probable cases until that date. Without this "batch addition" for probable cases, Michigan would have reported about 200-300 cases for the day. This had a very large effect on the predicted deaths, since Michigan has an extremely high raw case fatality rate (CFR) about 10%. The high CFR indicates that testing in Michigan has been woefully inadequate, with fewer than 1 in 10 COVID-19 infections being reported as a confirmed case.

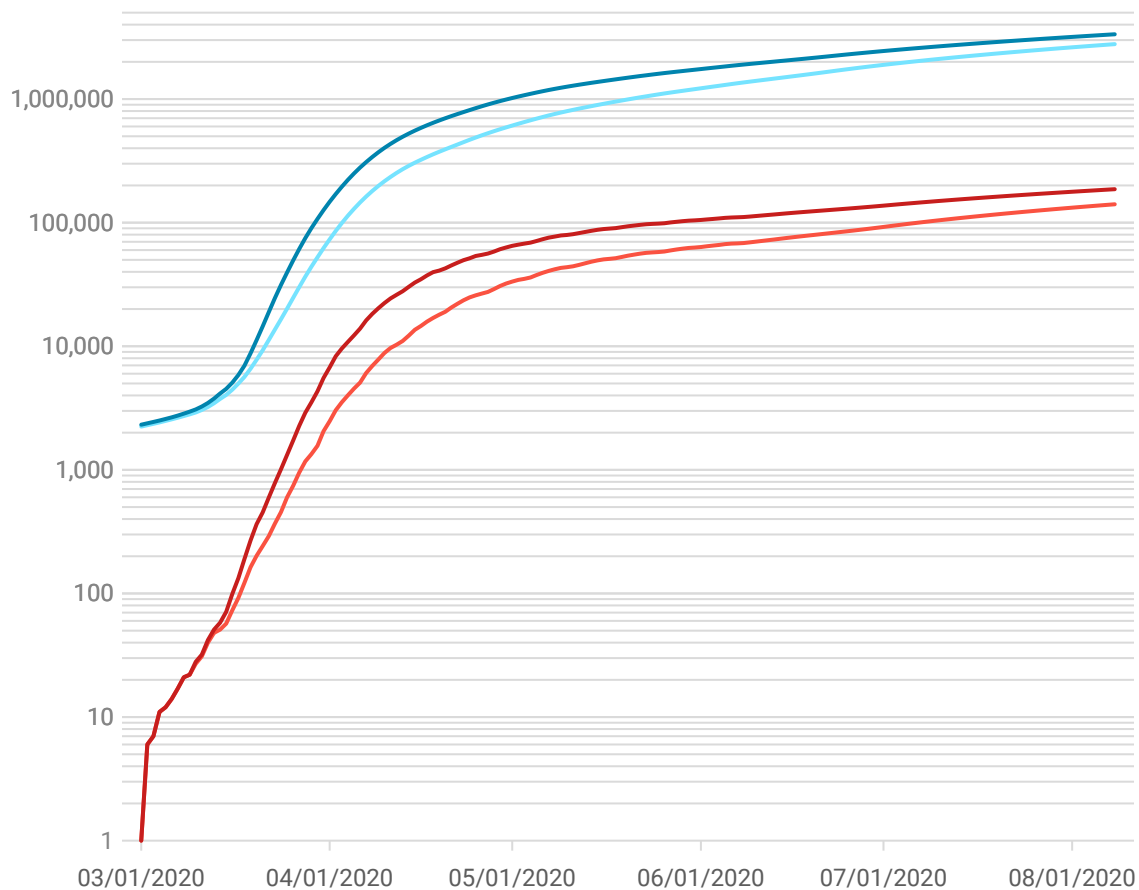
Insufficient testing also leads to under-reporting of COVID-19 deaths, and excess death analysis confirms that this can be seen in Michigan. For example, Michigan reported 3,023 deaths for the week ending 4/4/2020, compared to 1,871 deaths in the same week in 2019. Of the 1,152 excess deaths, only 640 were reported as COVID-19 deaths: just 55.6%. For three weeks in April, the total number of weekly deaths in Michigan was at least 50% higher than in 2019, but COVID-19 was listed as a cause of deaths in only two thirds of the excess deaths.

When correcting for the spike in the Michigan data, the predicted number of COVID-19 deaths on 8/8 drops to 829, and the total number of deaths to 168,285.

## 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

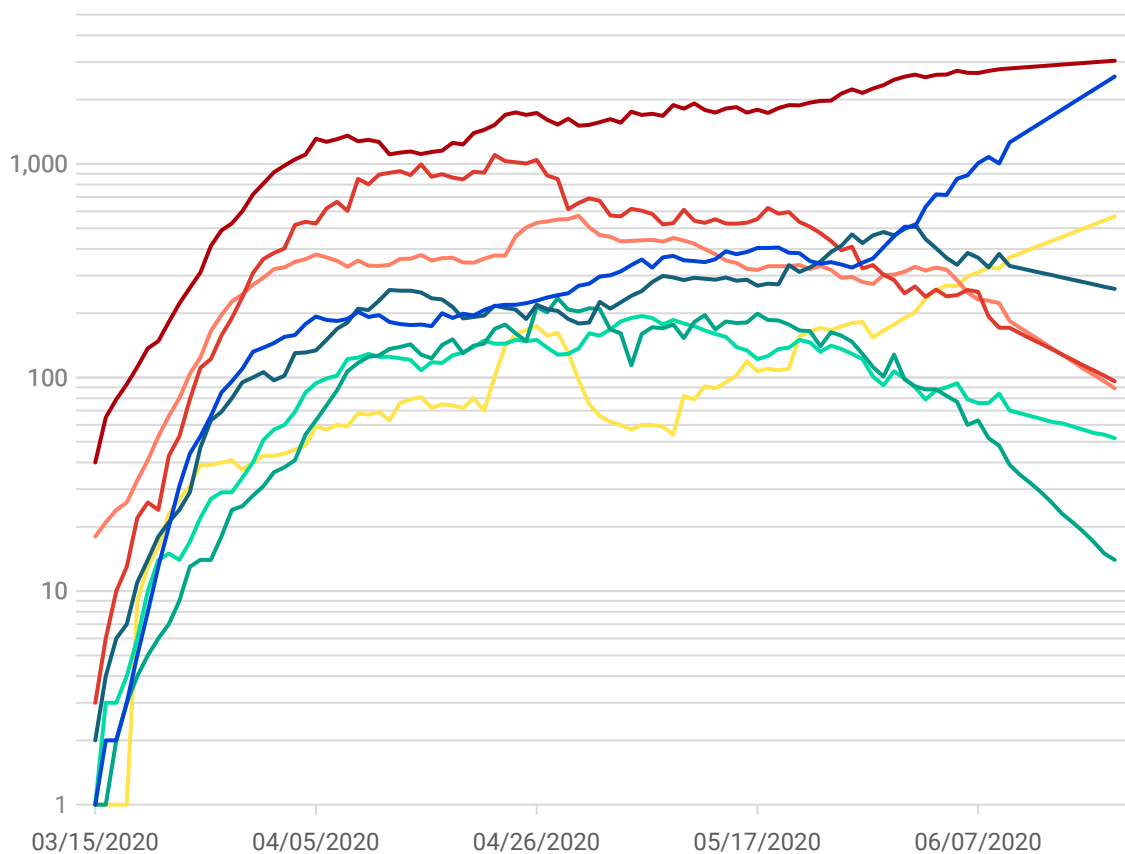


Daily model projections at <https://covid19science.blogspot.com/p/covid-19-model-projections.html>

Chart: covid19science.blogspot.com • [Get the data](#) • Created with [Datavrapper](#)

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

Alabama Arizona Arkansas California Colorado Connecticut Delaware  
District of Columbia

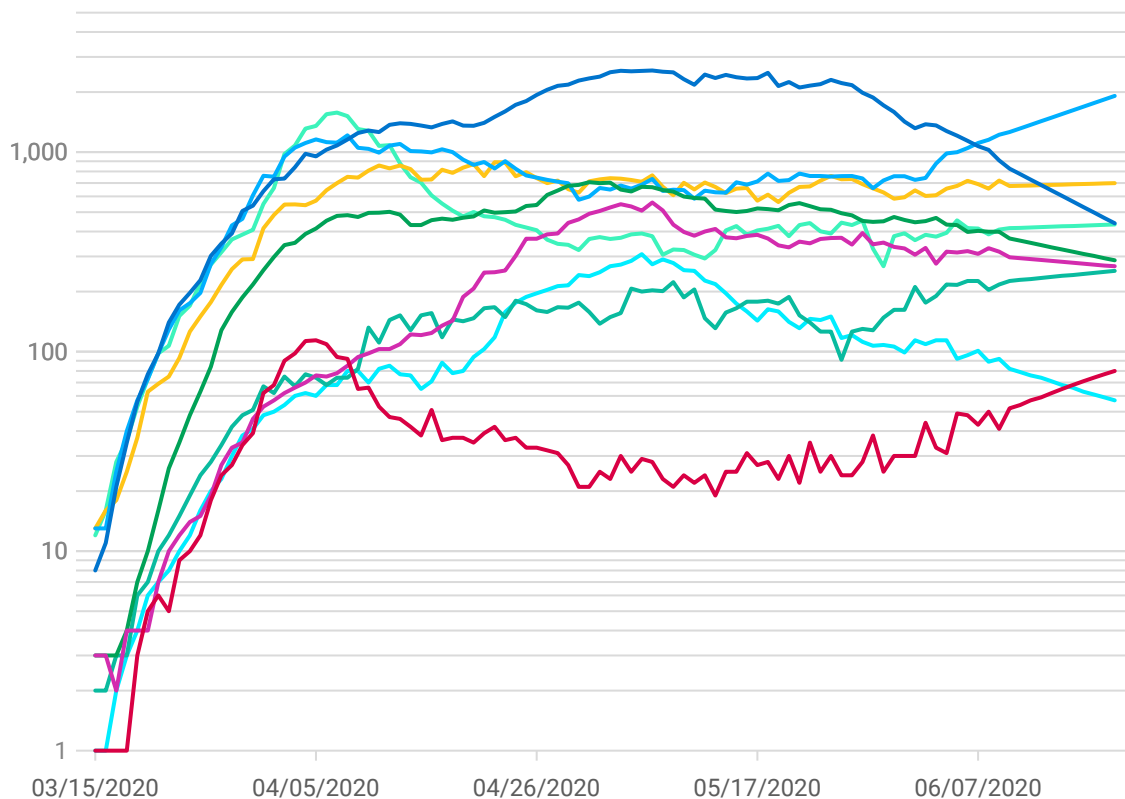


Daily model projections at <https://covid19science.blogspot.com/p/covid-19-model-projections.html>

Chart: covid19science.blogspot.com • [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

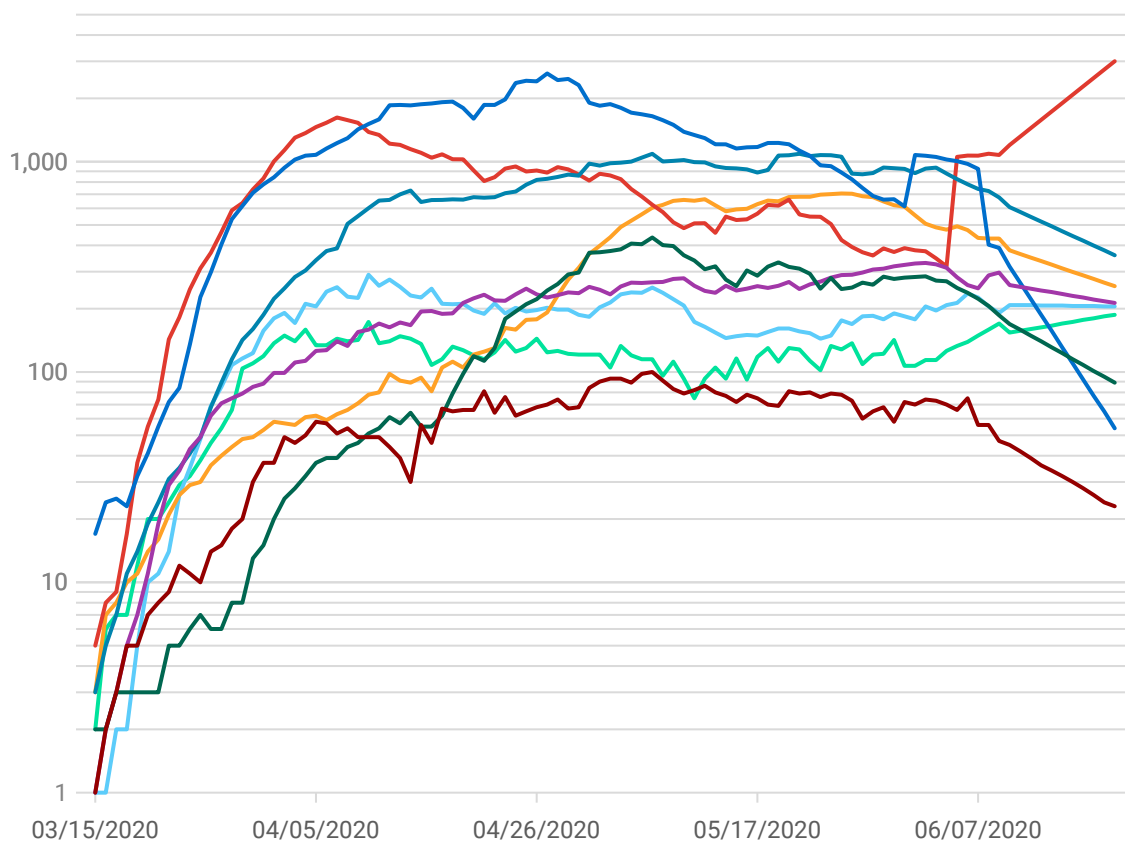


Daily model projections at <https://covid19science.blogspot.com/p/covid-19-model-projections.html>

Chart: covid19science.blogspot.com • [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

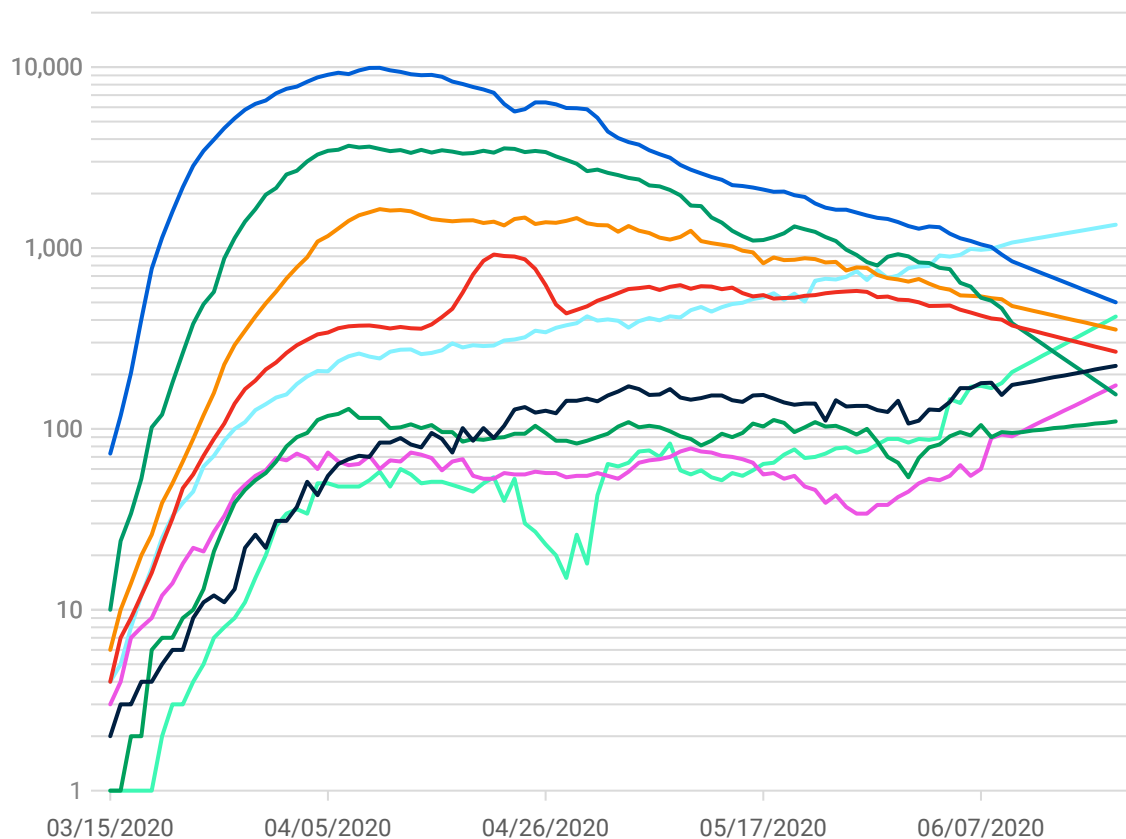


Daily model projections at <https://covid19science.blogspot.com/p/covid-19-model-projections.html>

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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

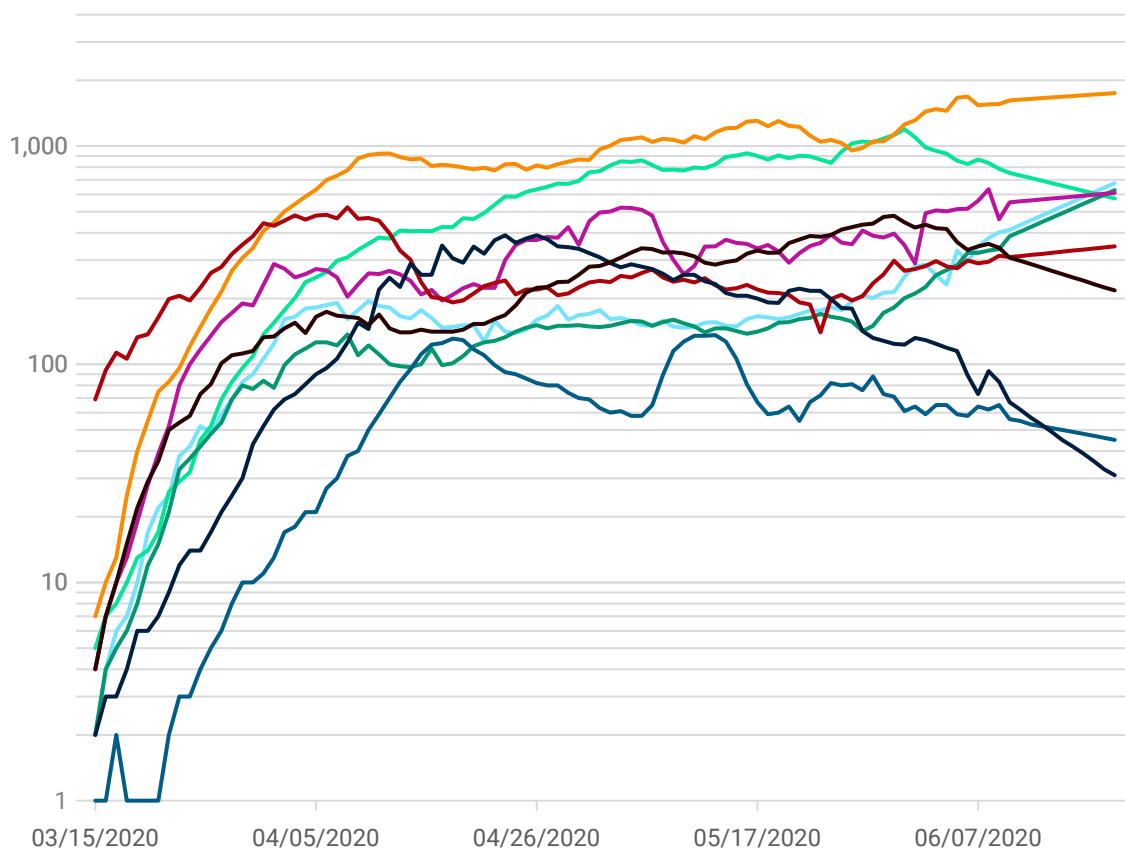


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## Actual and projected daily COVID-19 cases by state (RI-WI)

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



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