

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.

Please note that this model does not try to predict the effect of "re-opening". Since the model is based on extrapolation of trends in the last 2-3 weeks, any increases in COVID-19 cases from relaxed restrictions can take up to a month to be reflected in the predictions.

Last model run

May 11, 2020 with Johns Hopkins Data from 5/10/2020.

- **Total deaths predicted by 7/10/2020: 145,774** (yesterday:151,870 until 7/9)
- **Excluding New York & New Jersey: 100,711** (yesterday: 114,801 until 7/9)
- **Predicted daily cases on 7/10/2020: 11,088** (yesterday: 13,022)
- **Predicted daily death on 7/10/2020: 704** (~ 42,000 per 2 months)

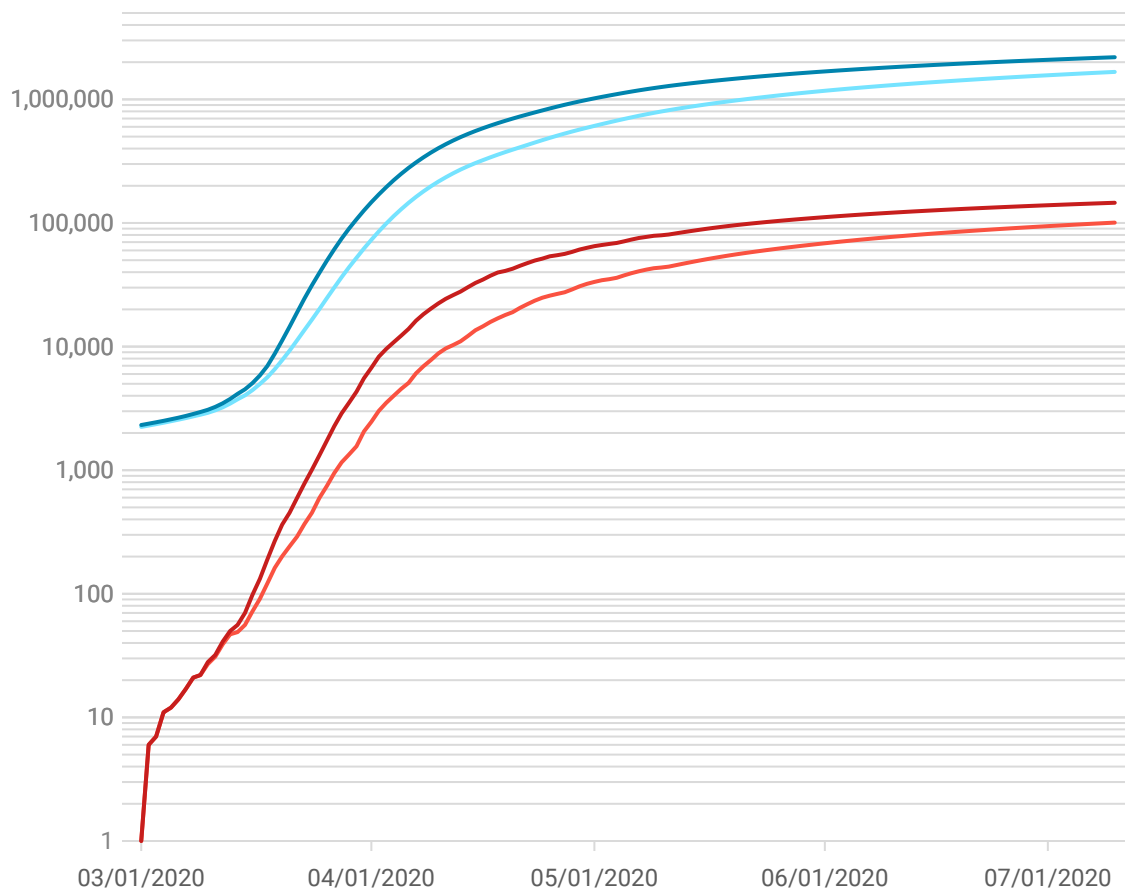
Summary

Today's numbers once again show a large drop compared to yesterday. Compared to a week ago, the number of predicted daily cases and deaths both have dropped by about 50%. Looking for a potential cause in the drop, we have to take a number of different delays into account: about 10-12 days between infection and test results; 7 days from smoothing; and 7-15 days corresponding to the periods used to calculate trend lines. The last policy change that could be linked to a reduction in transmissions is the recommendation to use face masks at the beginning of April. More recently, the number of tests has gone up substantially, from about 150,000 per day to now about 300,000 per day. This can also have the effect of reducing new transmissions by discovering more infections, and causing more infected people to self-isolate. We can only hope that the downward trend continues despite the ongoing re-openings.

Total projected COVID-19 cases and deaths

Future growth in cases per day limited to 14 days.

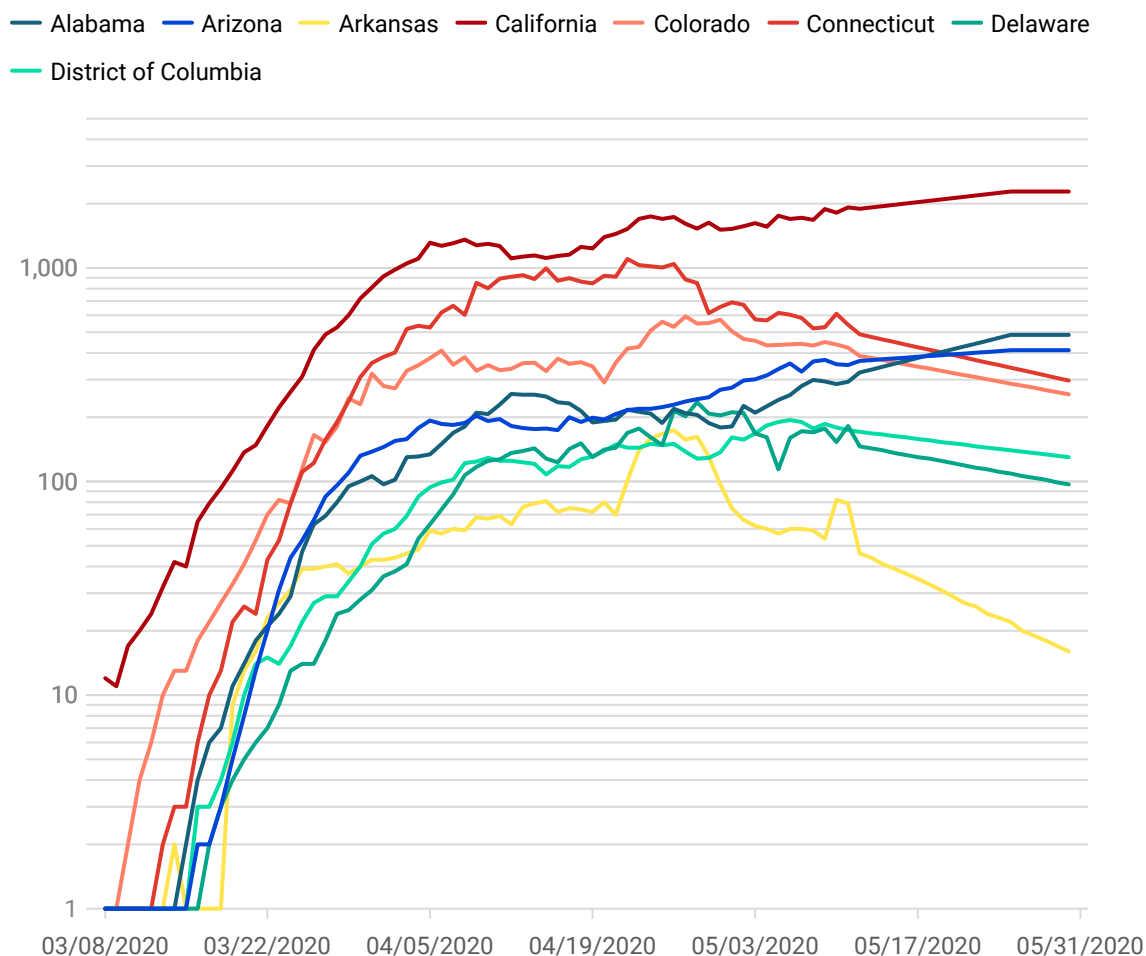
— Total cases — Cases without NJ & NY — Total deaths — Total deaths without NJ & NY



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

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

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

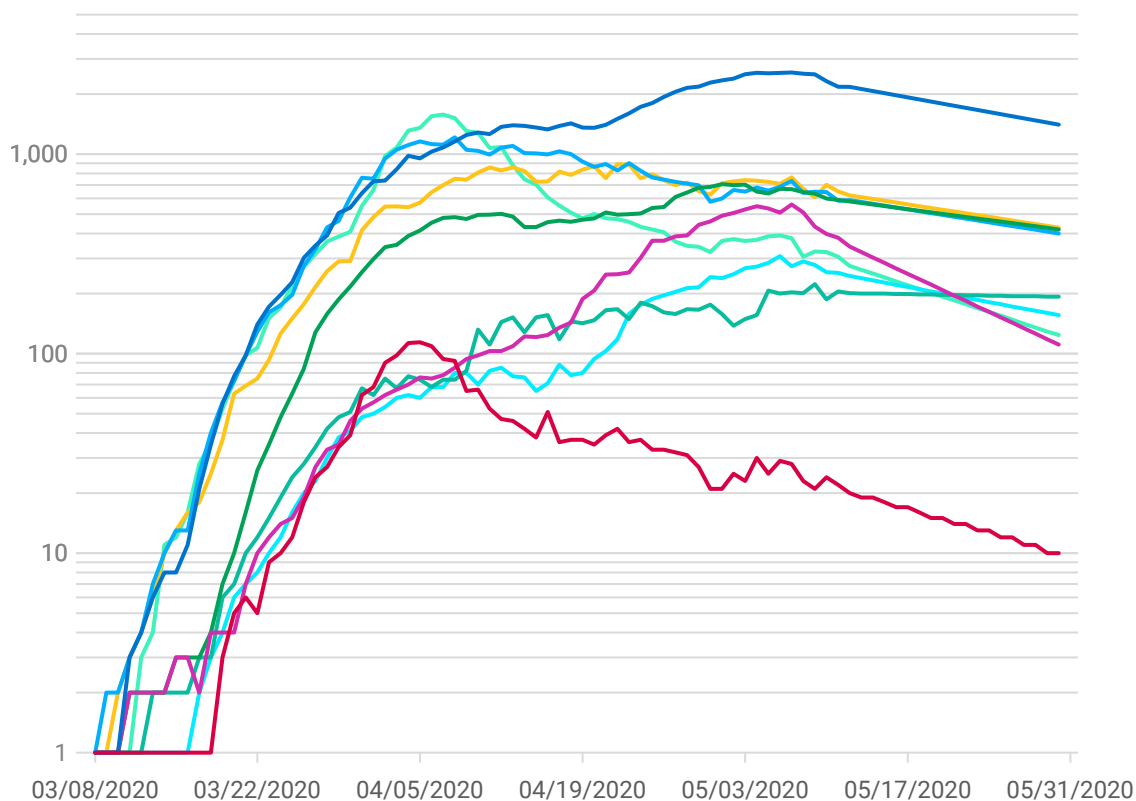


Daily model projections at <https://covid19science.blogspot.com/p/covid-19-model-projections.html>

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

Florida Georgia Idaho Illinois Indiana Iowa Kansas Kentucky Louisiana

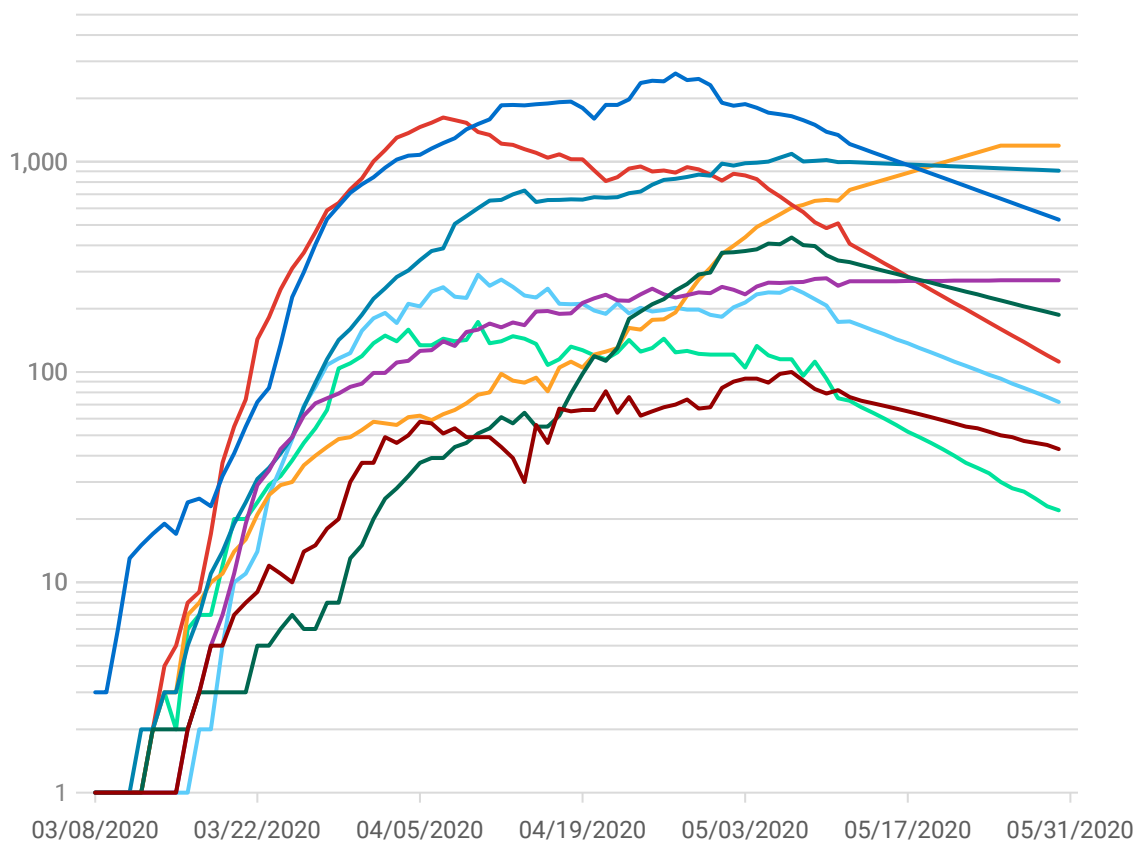


Daily model projections at <https://covid19science.blogspot.com/p/covid-19-model-projections.html>

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

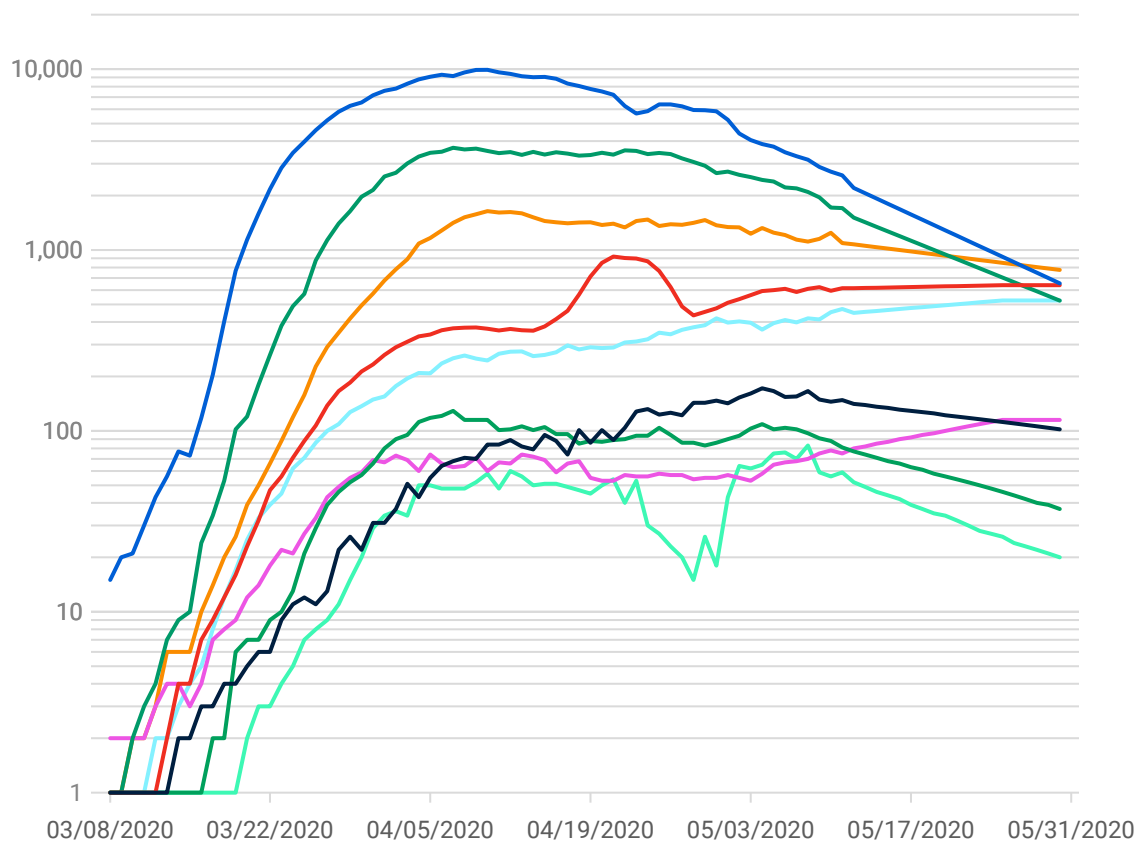


Daily model projections at <https://covid19science.blogspot.com/p/covid-19-model-projections.html>

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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

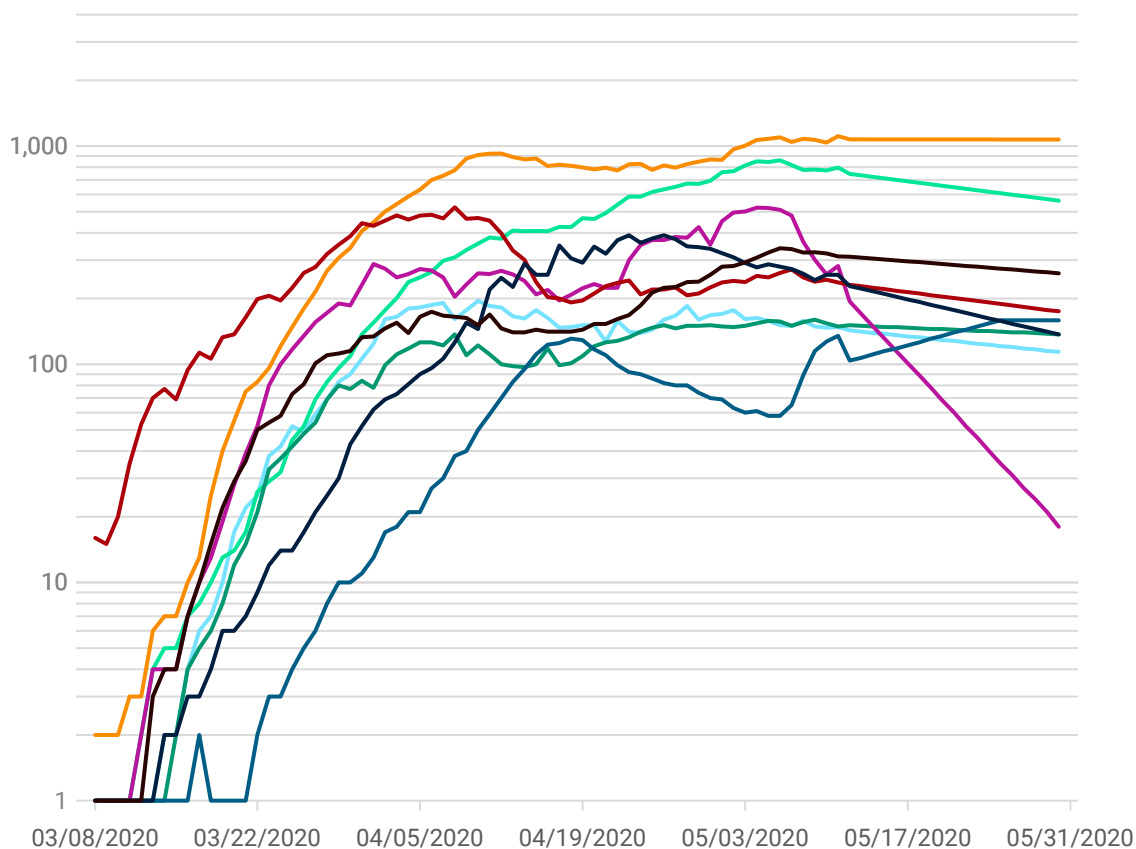


Daily model projections at <https://covid19science.blogspot.com/p/covid-19-model-projections.html>

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

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



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