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.

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 6, 2020 with Johns Hopkins Data from 5/6/2020.

- **Total deaths predicted by 7/4/2020: 172,193** (yesterday:168,564 until 7/3)
- **Excluding New York & New Jersey: 125,547** (yesterday: 121,890 until 7/3)
- **Predicted daily cases on 7/42020: 22,146** (yesterday: 22,308)
- **Predicted daily death on 7/4/2020: 1,452** (~ 87,000 per 2 months)

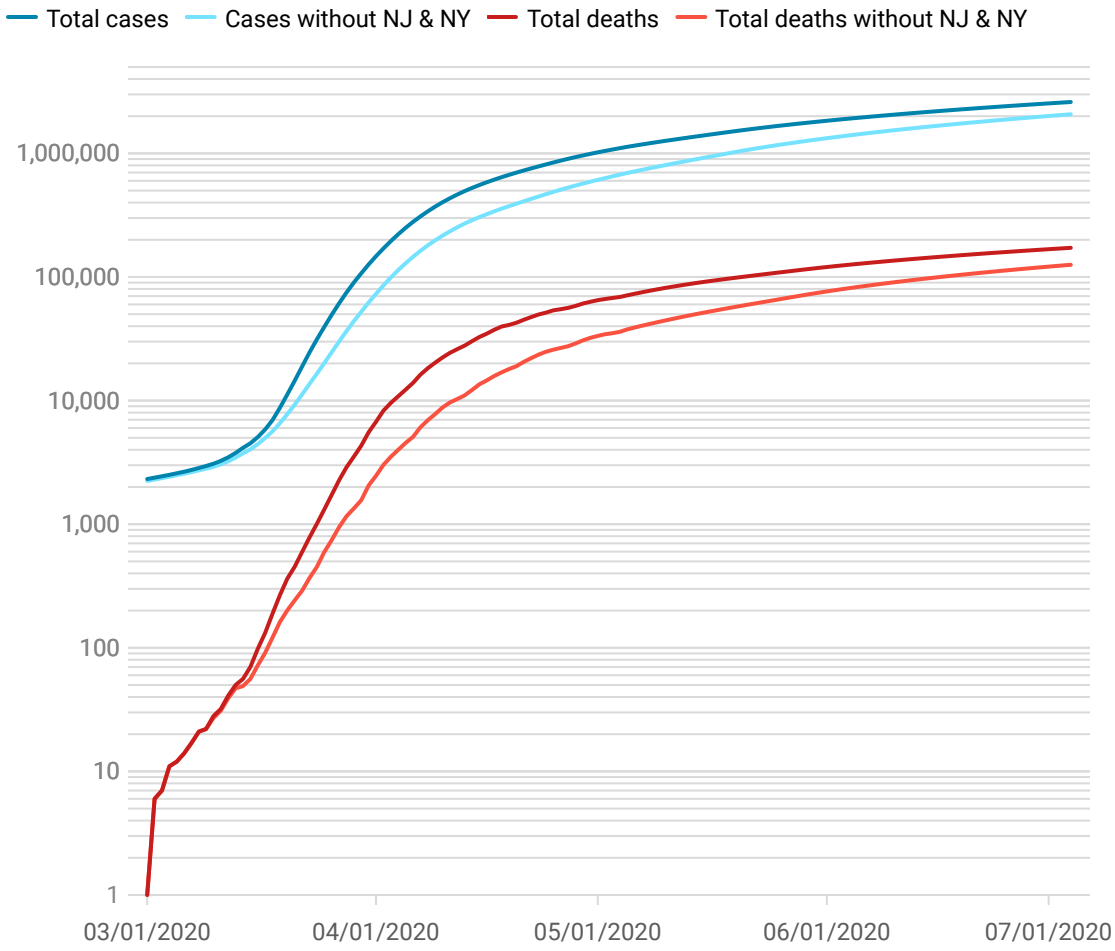
Summary

Today's numbers are slightly higher than yesterday, which was expected because reported case numbers in the middle of the week are higher than at the beginning of the week. It is likely that we will see additional upticks for the next 2 or 3 days.

One trend that raises some concerns is the relatively large number of states and regions that have a higher growth rate over the last 7 days than over the last 2 weeks. This is the case for 23 states or regions today; often, the 7-day data show an growth trend, while the 15-day data show a decline. The model always takes the lower of the two predictions to avoid large increases from short-lived trends in the data. As a result, the model will be slow to pick up a rising trend in case numbers from the expected additional transmissions from "re-opening".

Total projected COVID-19 cases and deaths

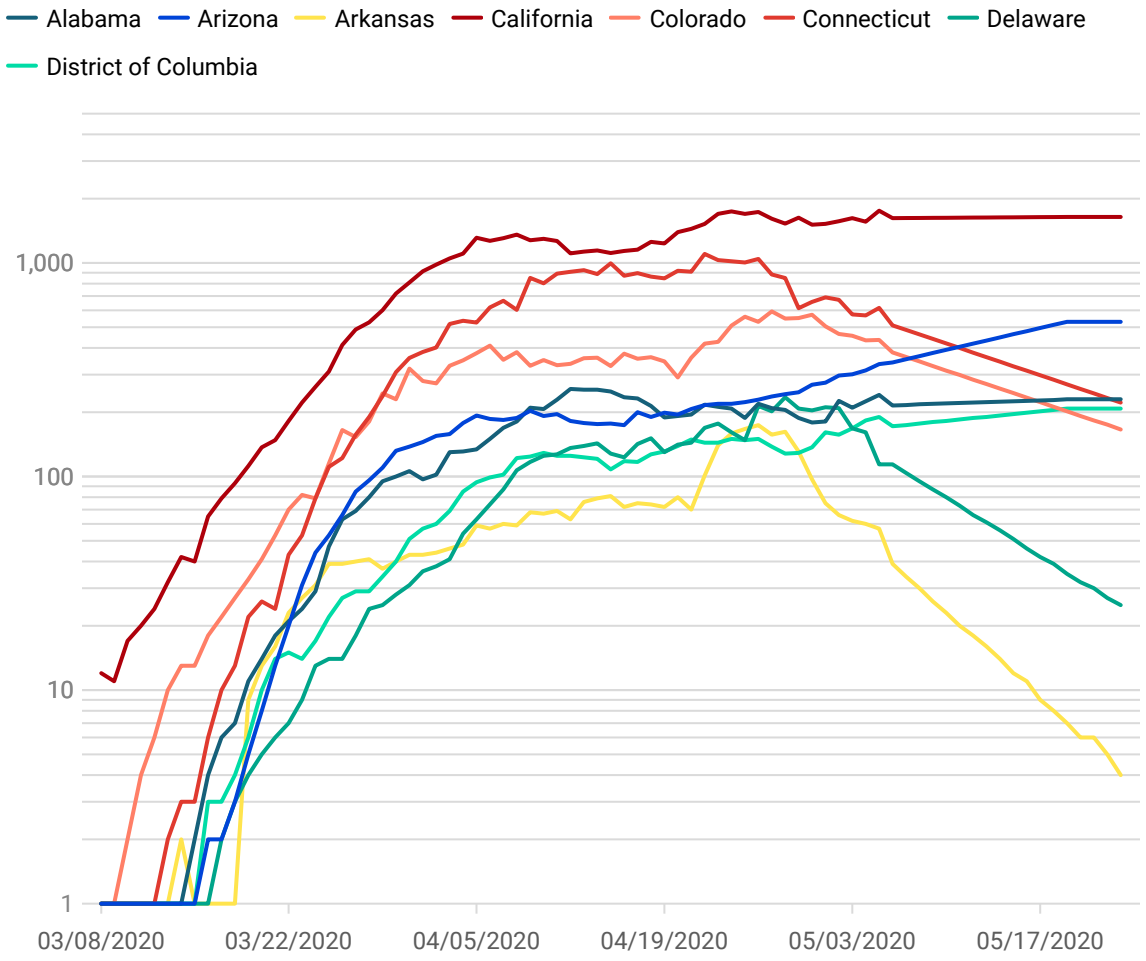
Future growth in cases per day limited to 14 days.



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)



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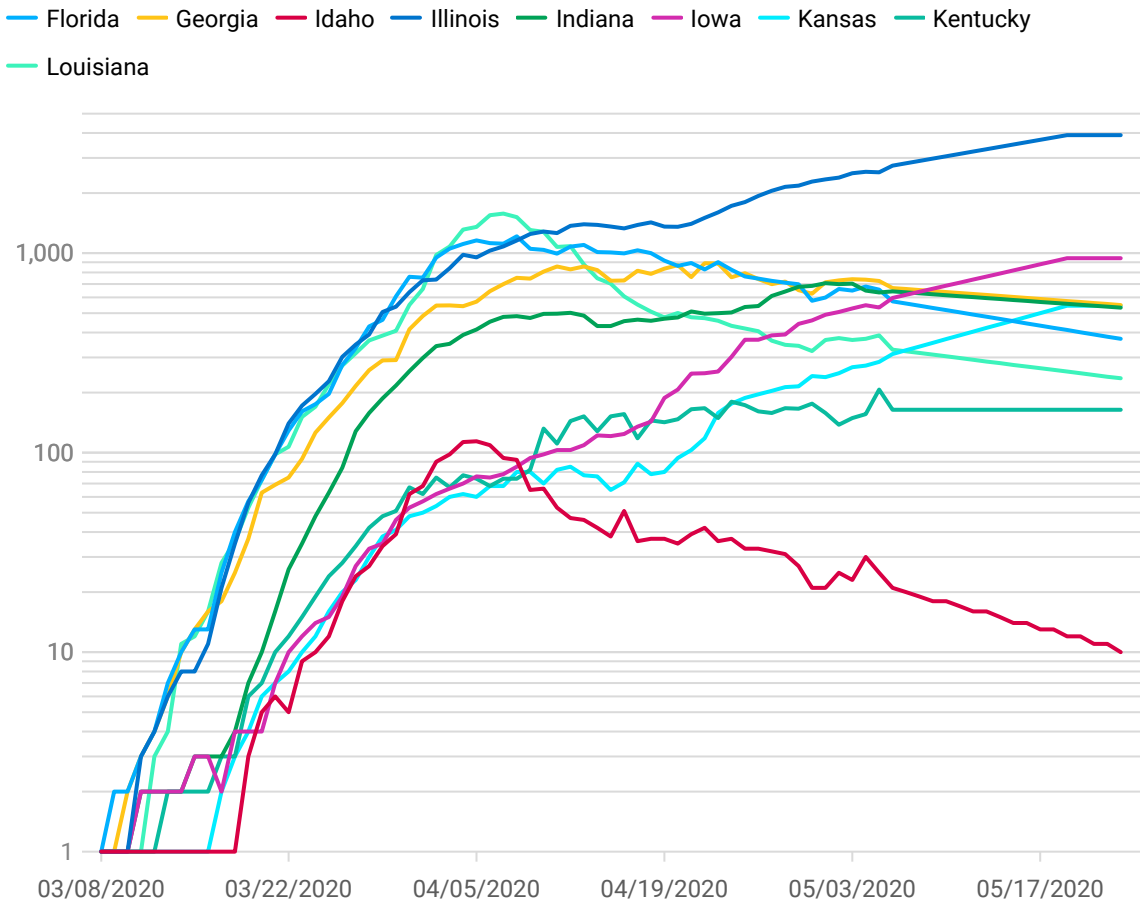
Actual and projected daily COVID-19 cases by state (FL-LA)



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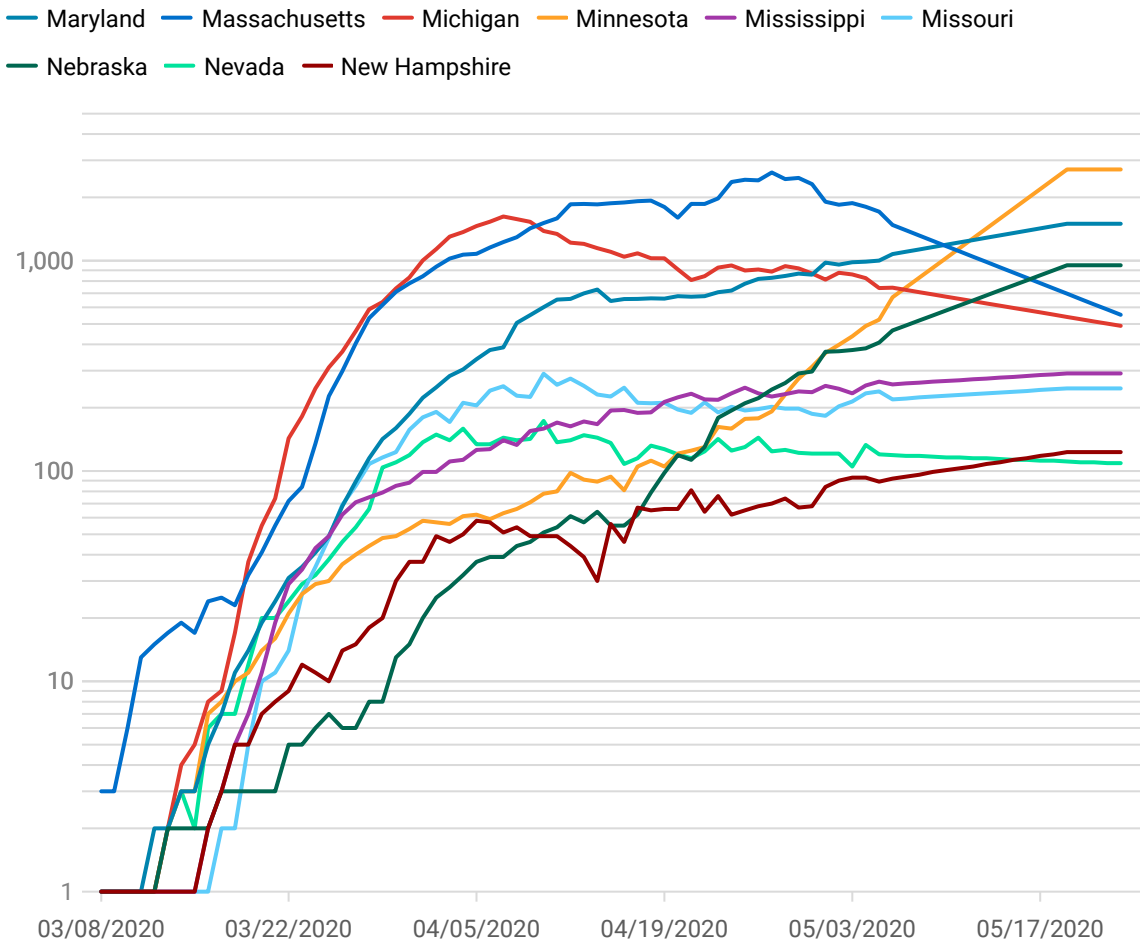
Actual and projected daily COVID-19 cases by state (MD-NH)



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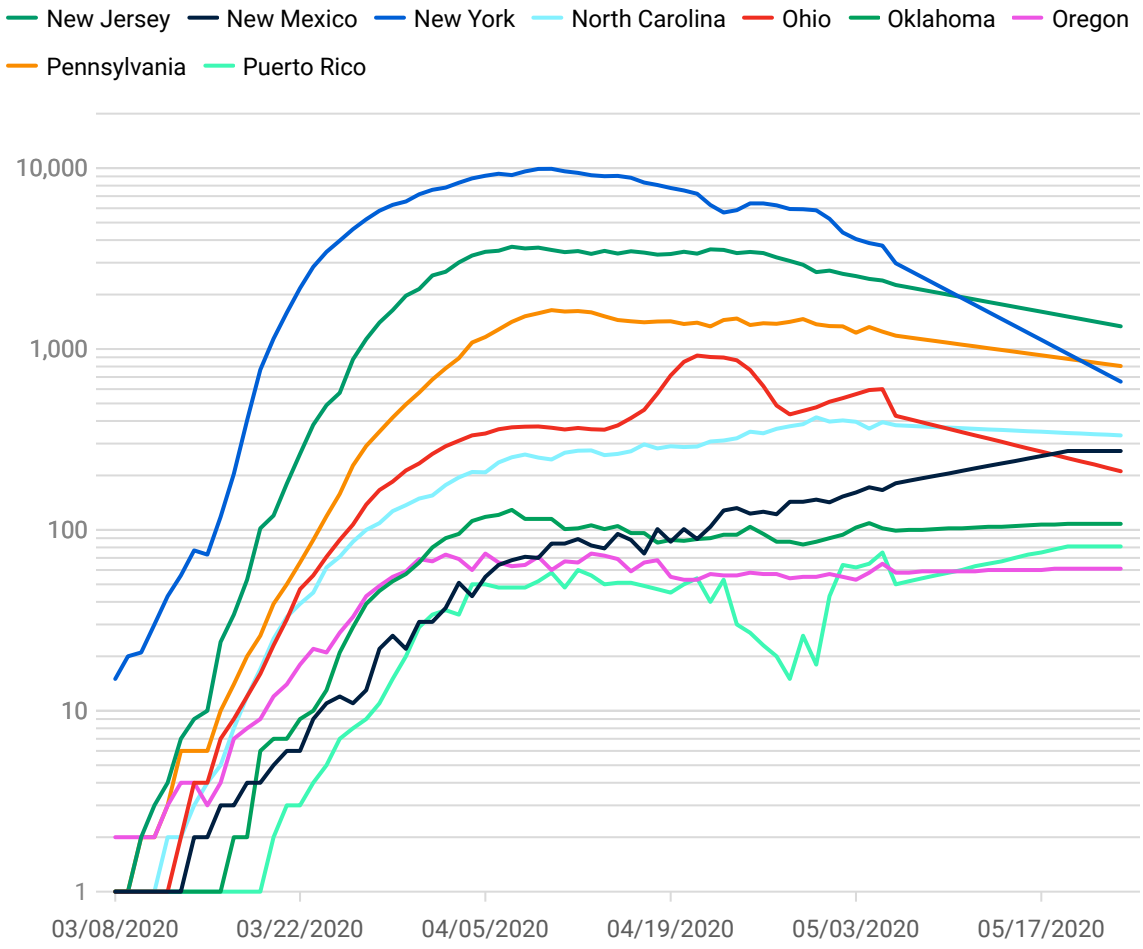
Actual and projected daily COVID-19 cases by state (NM-PR)



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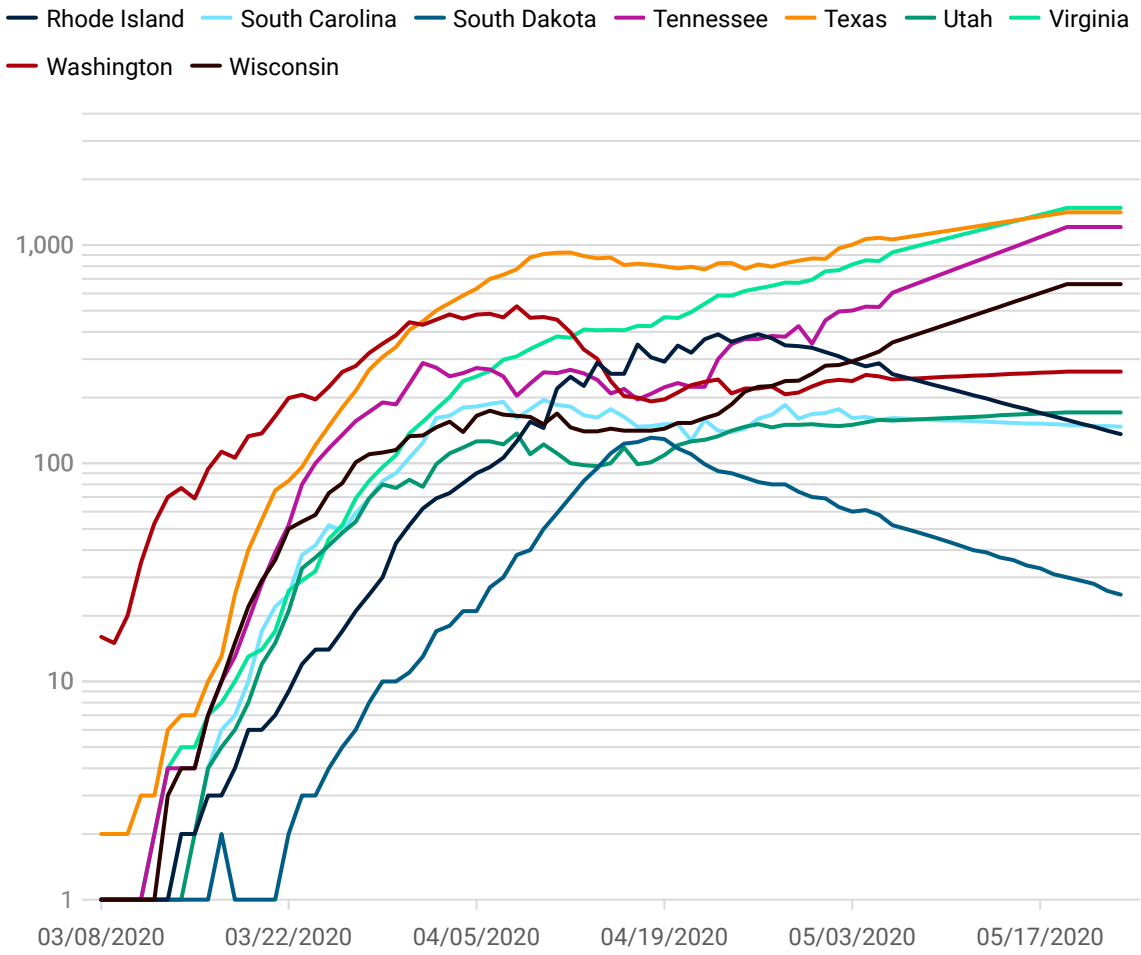
Actual and projected daily COVID-19 cases by state (RI-WI)



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