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 19, 2020 with Johns Hopkins Data from 5/18/2020.

- **Total deaths predicted by 7/17/2020: 150,313** (yesterday:147,649 until 7/16)
- **Excluding New York & New Jersey: 104,891** (yesterday: 102,385 until 7/16)
- **Predicted daily cases on 7/17/2020: 12,500** (yesterday: 11,227)
- **Predicted daily death on 7/17/2020: 714** (yesterday: 645; ~ 37,000 per 2 months)

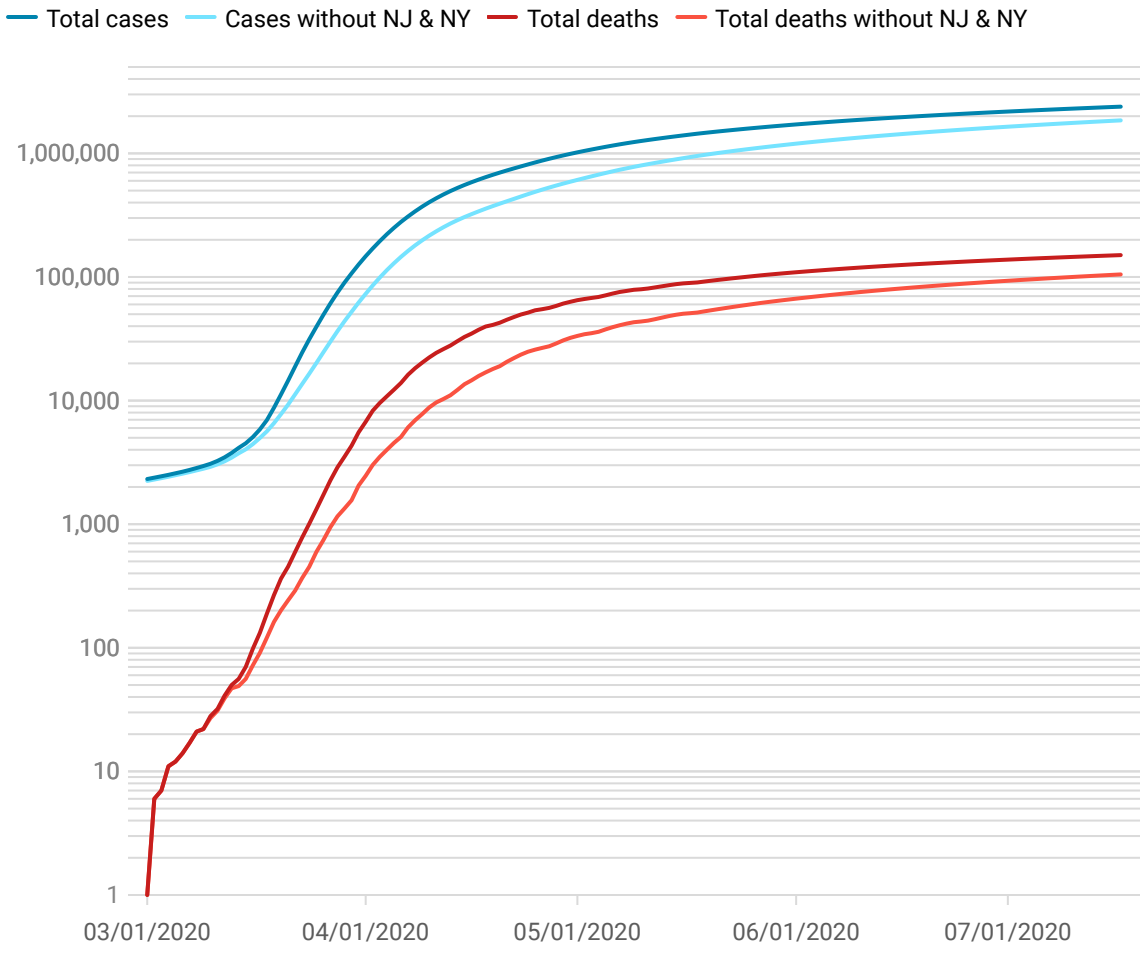
Summary

Today's numbers are significantly higher than yesterday, with about 11% more daily cases and death at the end of the forecast period. This is the second time in a row that we have seen an increase, and both increases happened at the beginning of the week were trend data typically have shown a downward trend from lower reports on the weekend. **It is very likely that the observed increases are caused re-opening in many states**.

Since the changes are still relatively small, and many states are still showing a downward trend in the case numbers (albeit *less* of a downward trend than before), it is very likely that states will proceed with relaxing restrictions, and that people will ignore social distancing restrictions more and more. With the upcoming busy Memorial Day weekend and restaurant, business, and church openings in many states, it seems probable that there will be a *large* uptick in reported cases about 3 weeks from now.

Total projected COVID-19 cases and deaths

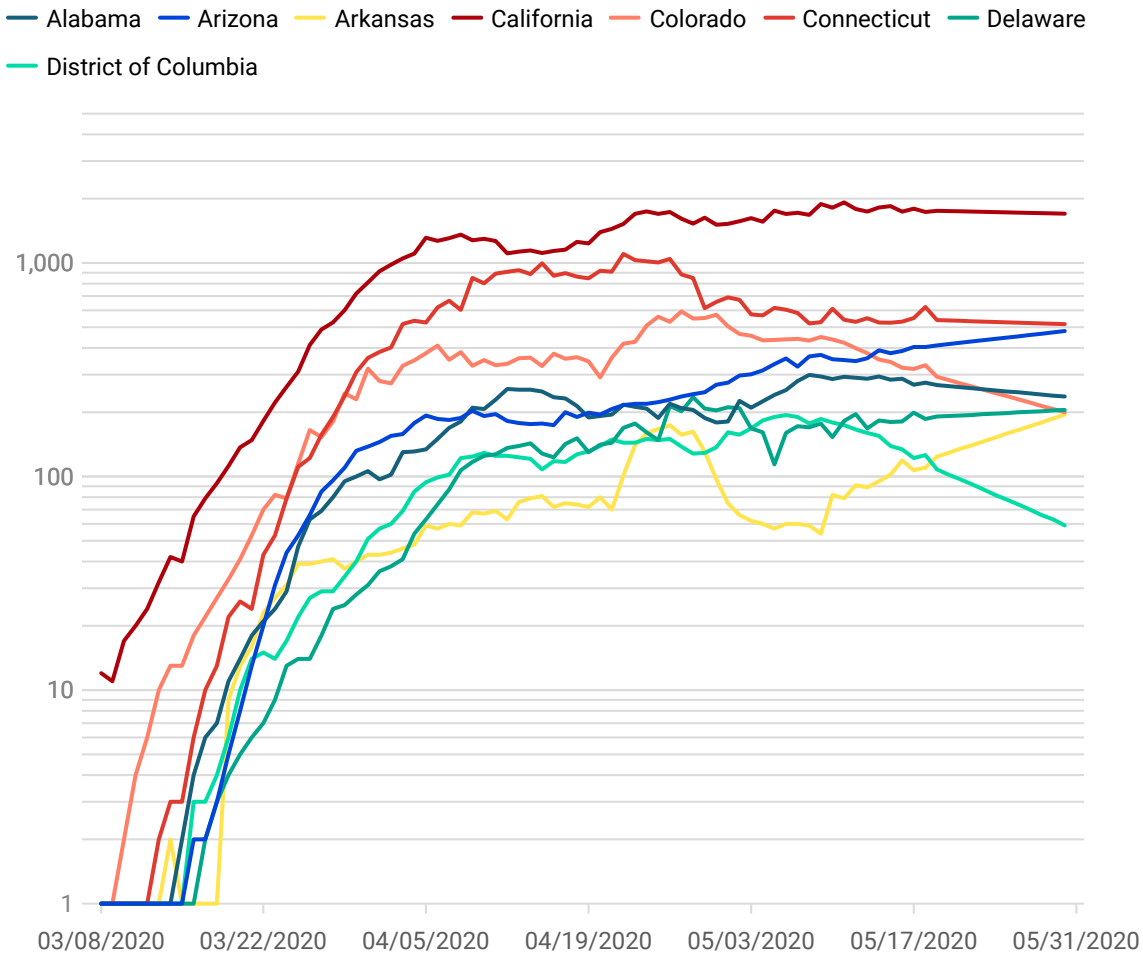
Future growth in cases per day limited to 14 days.



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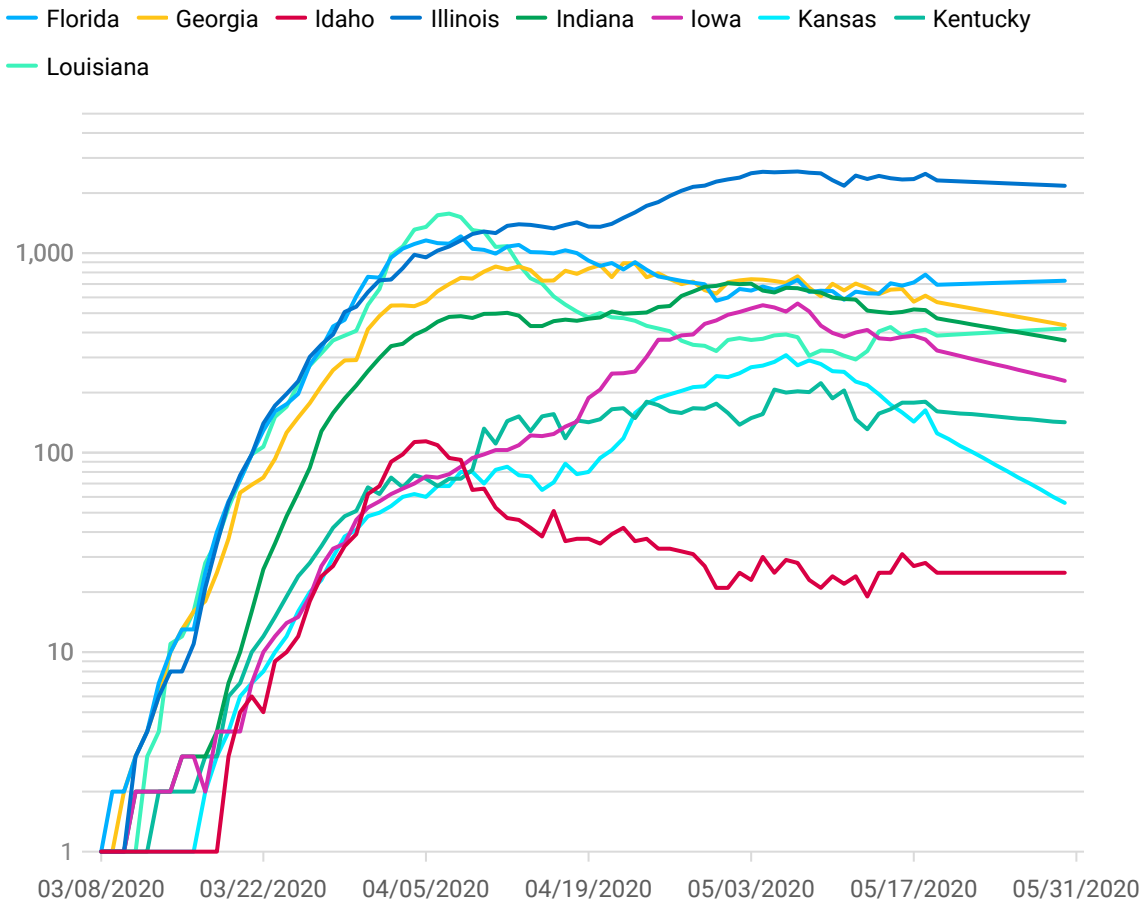
Actual and projected daily COVID-19 cases by state (FL-LA)



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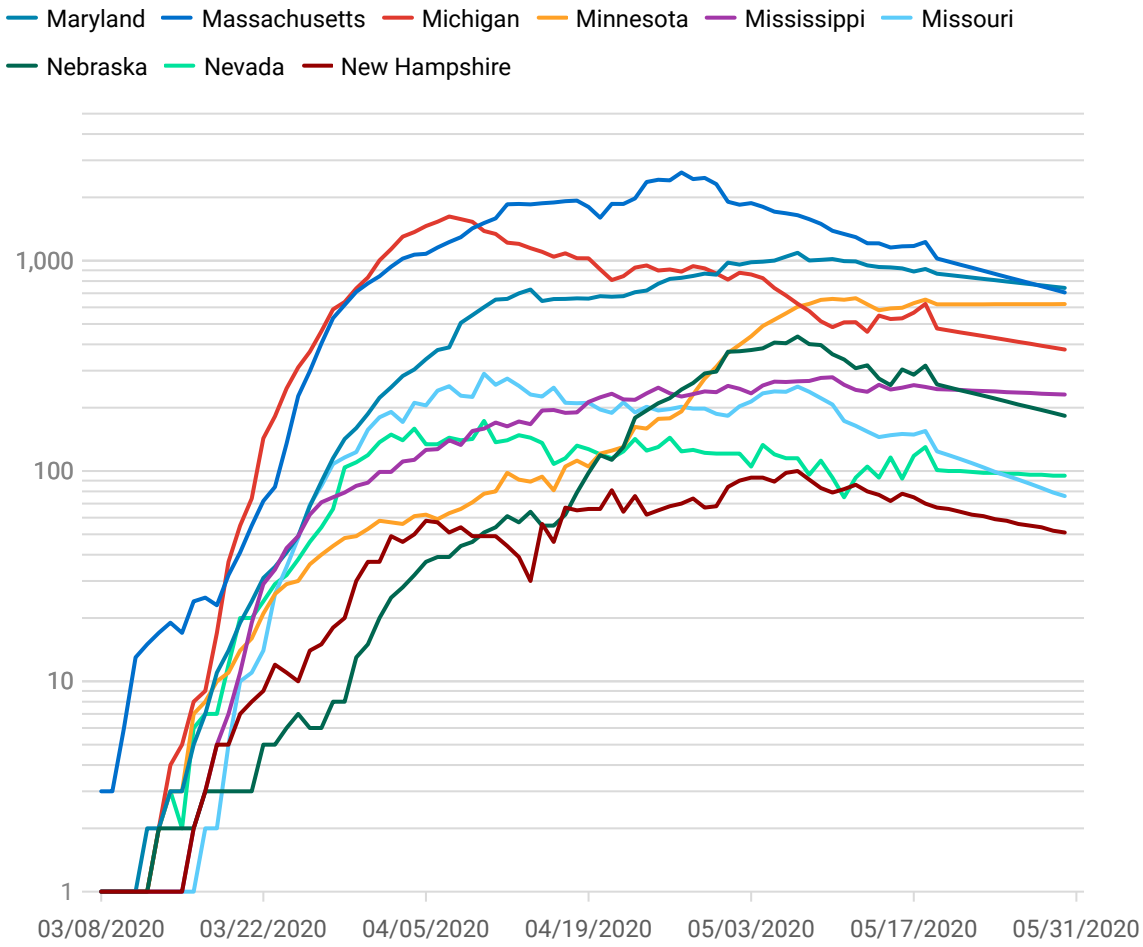
Actual and projected daily COVID-19 cases by state (MD-NH)



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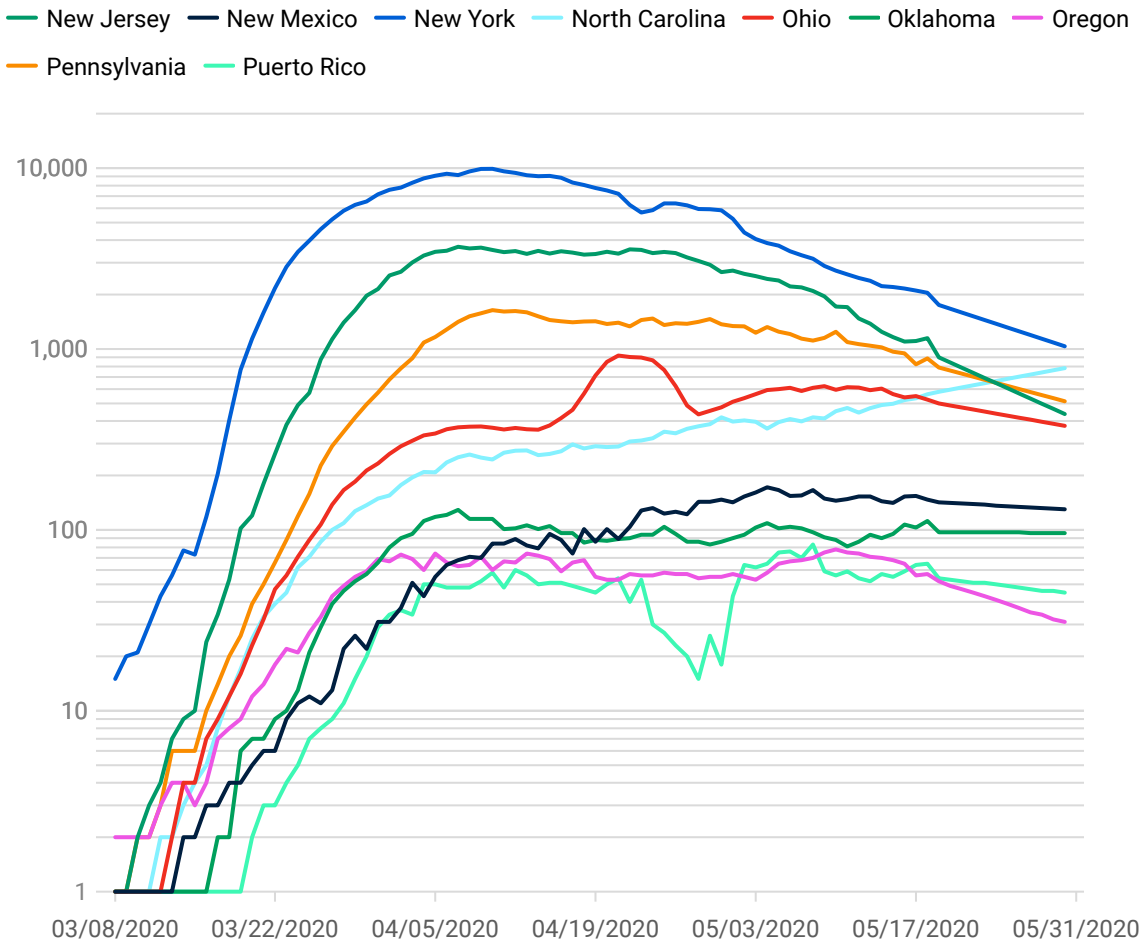
Actual and projected daily COVID-19 cases by state (NM-PR)



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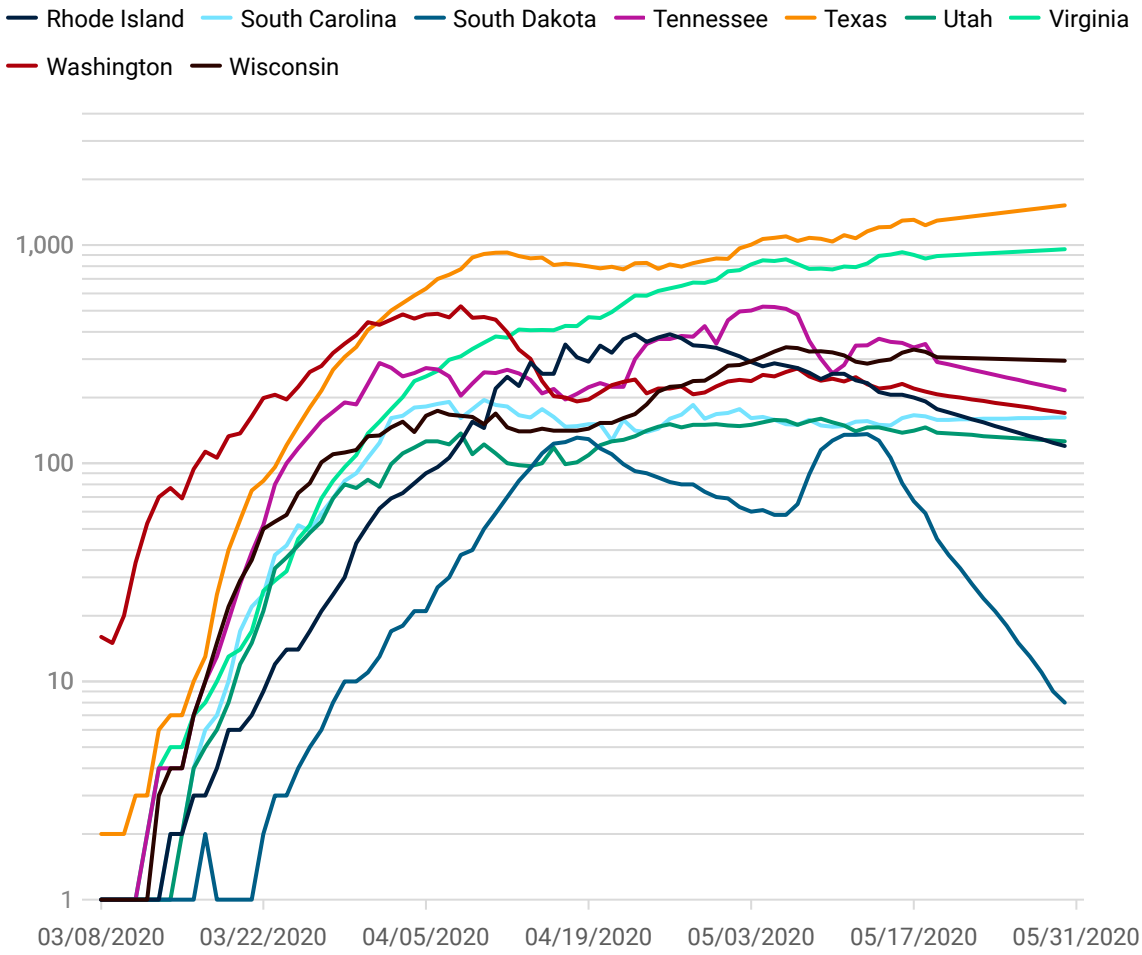
Actual and projected daily COVID-19 cases by state (RI-WI)



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