

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 14, 2020 with Johns Hopkins Data from 5/13/2020.

- **Total deaths predicted by 7/12/2020: 144,654** (yesterday:144,761 until 7/11)
- **Excluding New York & New Jersey: 100,155** (yesterday: 100,028 until 7/11)
- **Predicted daily cases on 7/12/2020: 10,623** (yesterday: 10,454)
- **Predicted daily death on 7/12/2020: 643** (~ 39,000 per 2 months)

Summary

Today's numbers show only very small changes compared to yesterday. The number of projected deaths has decreased a little bit, but the number of daily cases has gone up a bit. This can happen when cases decrease in states with a higher case fatality rate (CFR), and increase in a state with a lower CFR. Yesterday, the biggest change was that Texas reported a record number of new cases (1,588); Texas has a relatively low CFR of 2.7%.

Most states still show a predicted decline in daily cases, but the following states show a predicted increase:

- Alabama, Arizona, California, Minnesota, North Carolina, Ohio, Oregon, South Dakota, Texas, Virginia

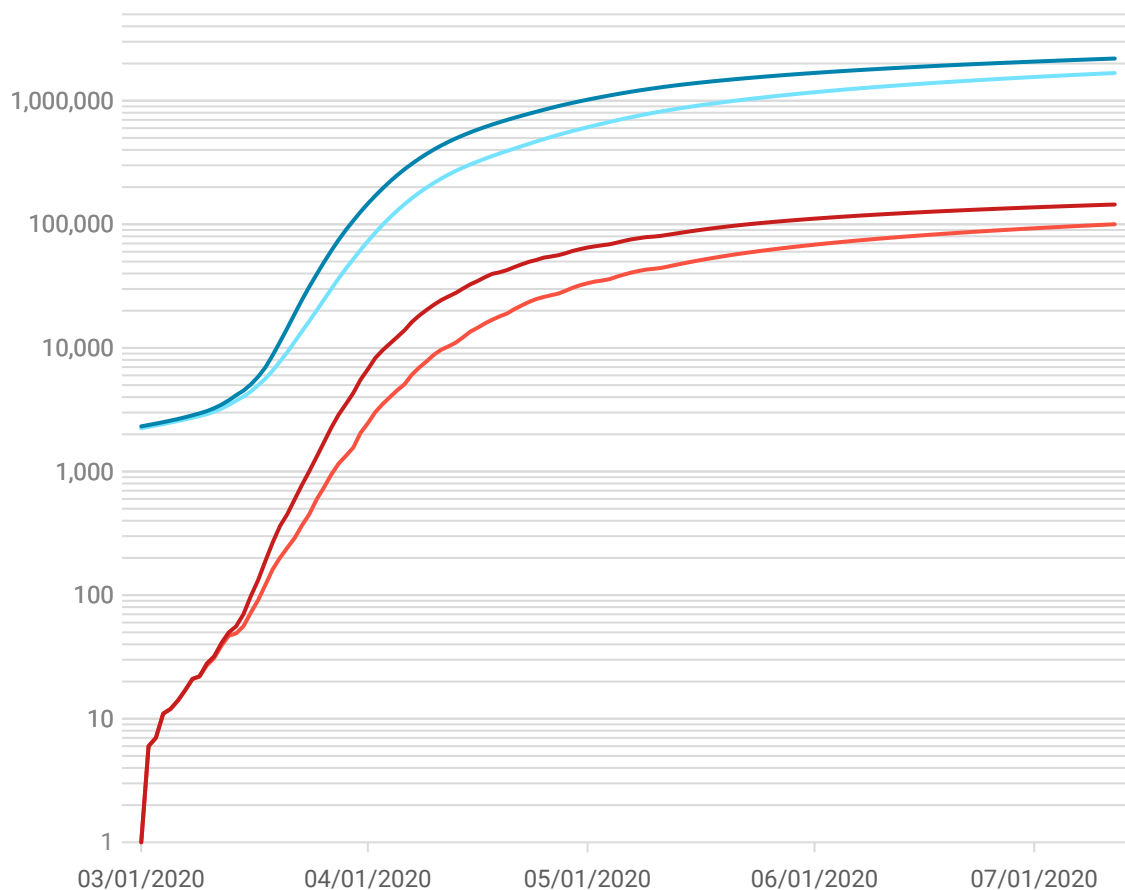
The model looks at both 7-day and 15-day trend lines and takes the one that predicts less cases. Looking just at the 7-day trend line, the following states also show an upward trend in daily cases:

- Arkansas, Delaware, Hawaii, North Dakota, South Carolina

Total projected COVID-19 cases and deaths

Future growth in cases per day limited to 14 days.

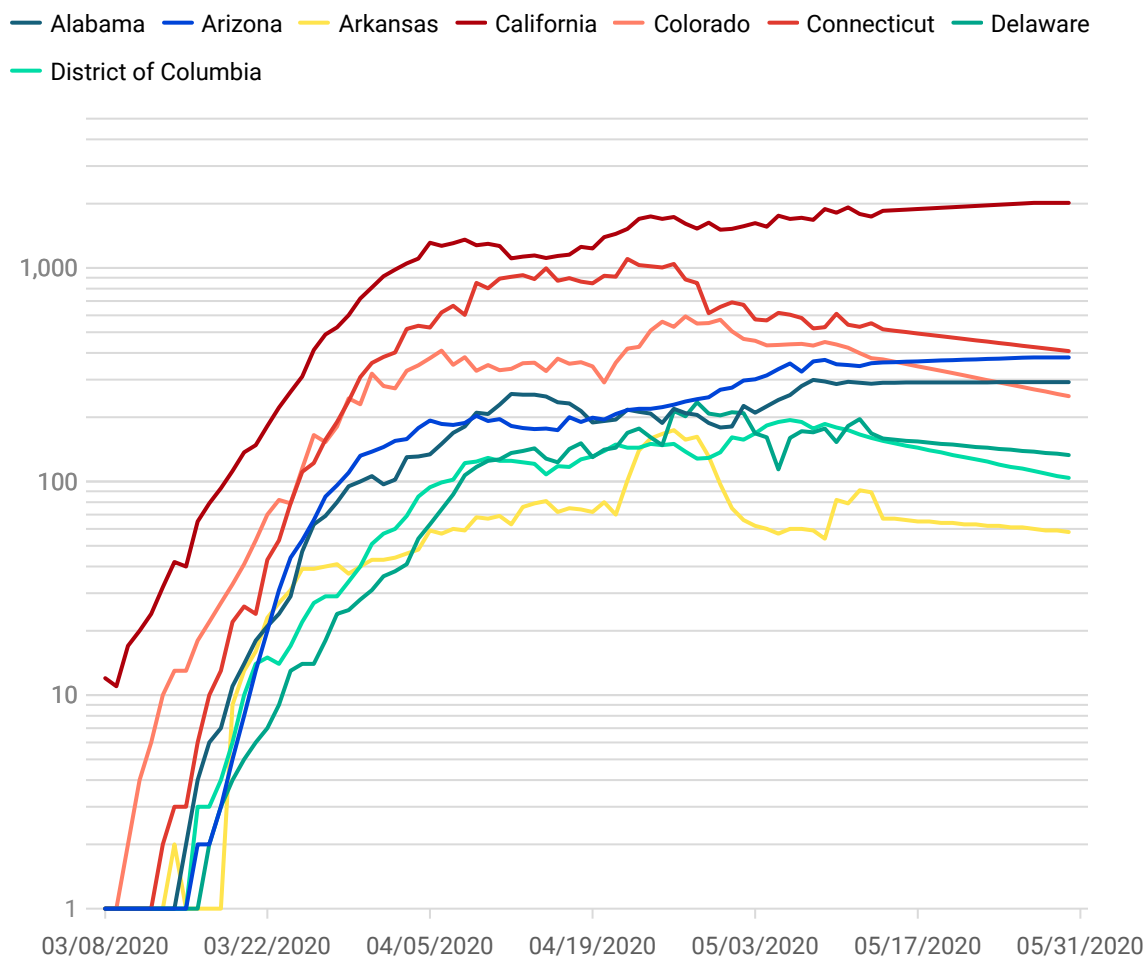
— Total cases — Cases without NJ & NY — Total deaths — Total deaths without NJ & NY



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

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

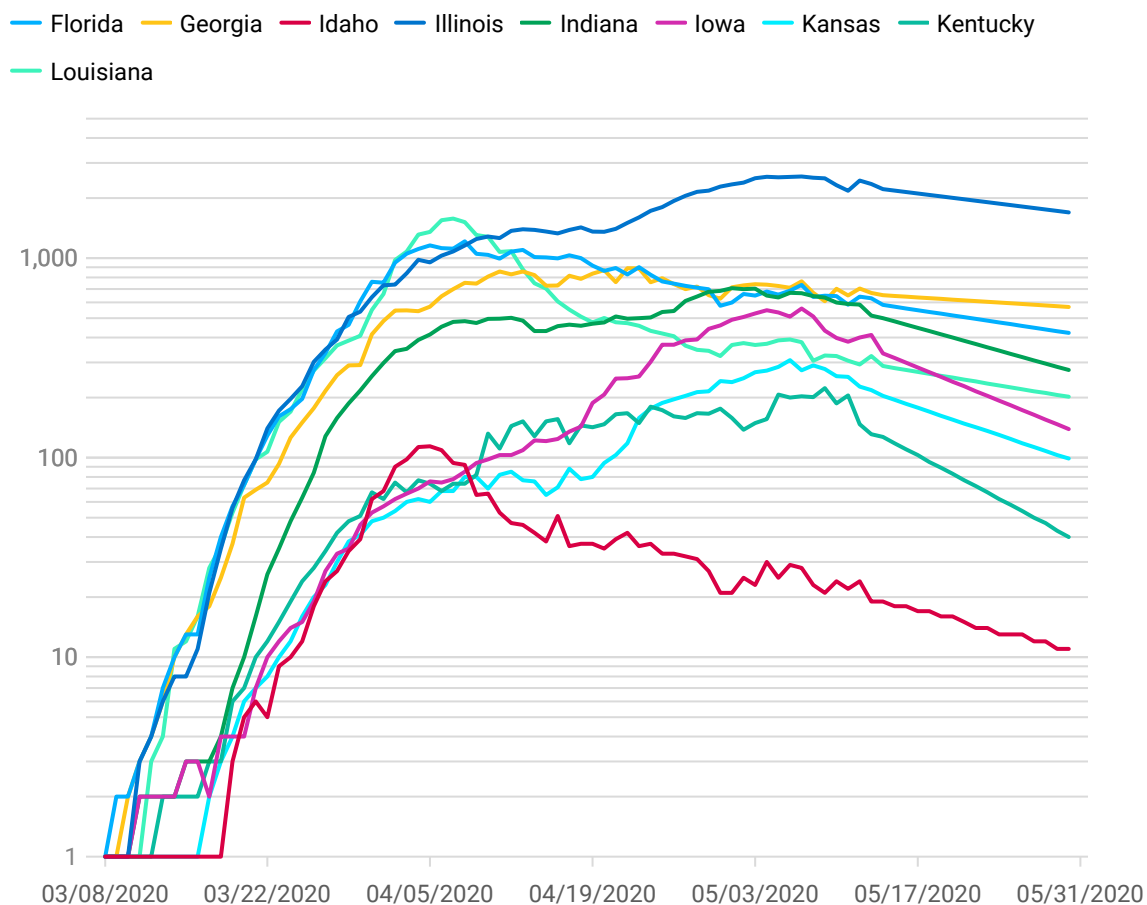
Actual and projected daily COVID-19 cases by state (AL-DC)



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

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

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

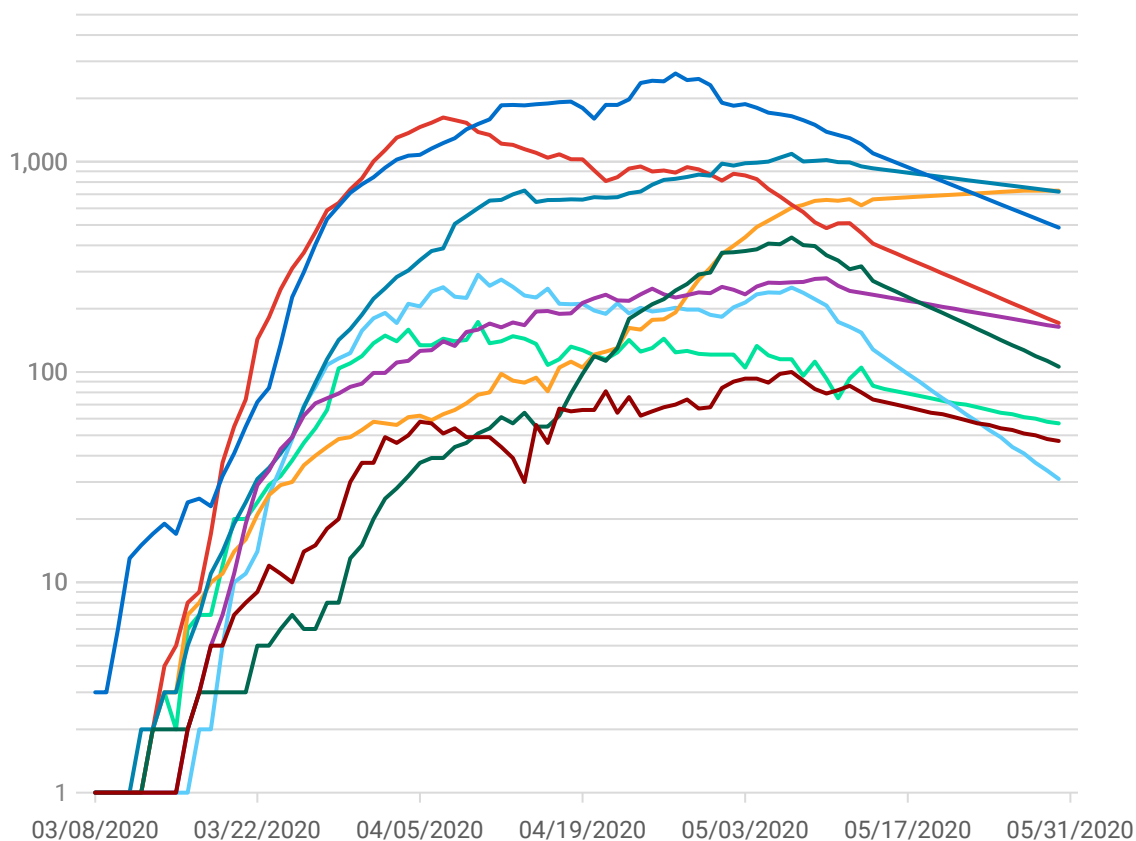


Daily model projections at <https://covid19science.blogspot.com/p/covid-19-model-projections.html>

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

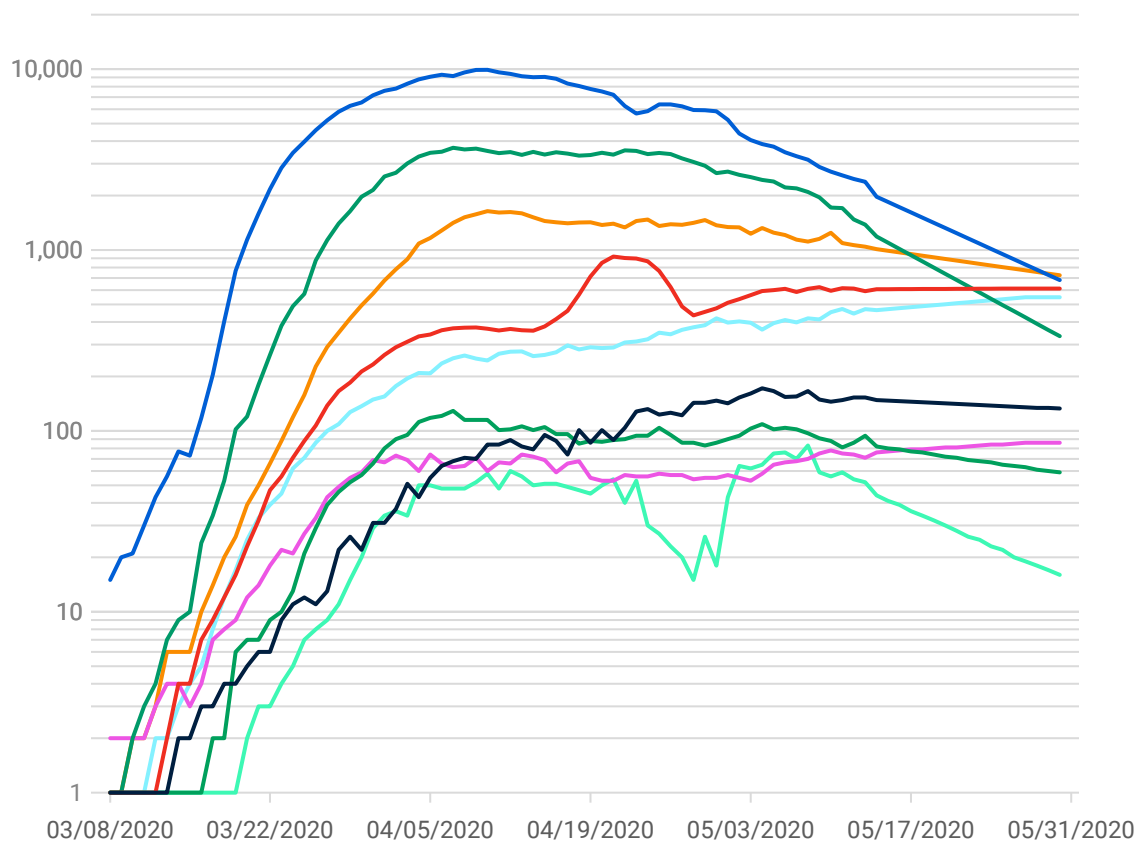


Daily model projections at <https://covid19science.blogspot.com/p/covid-19-model-projections.html>

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

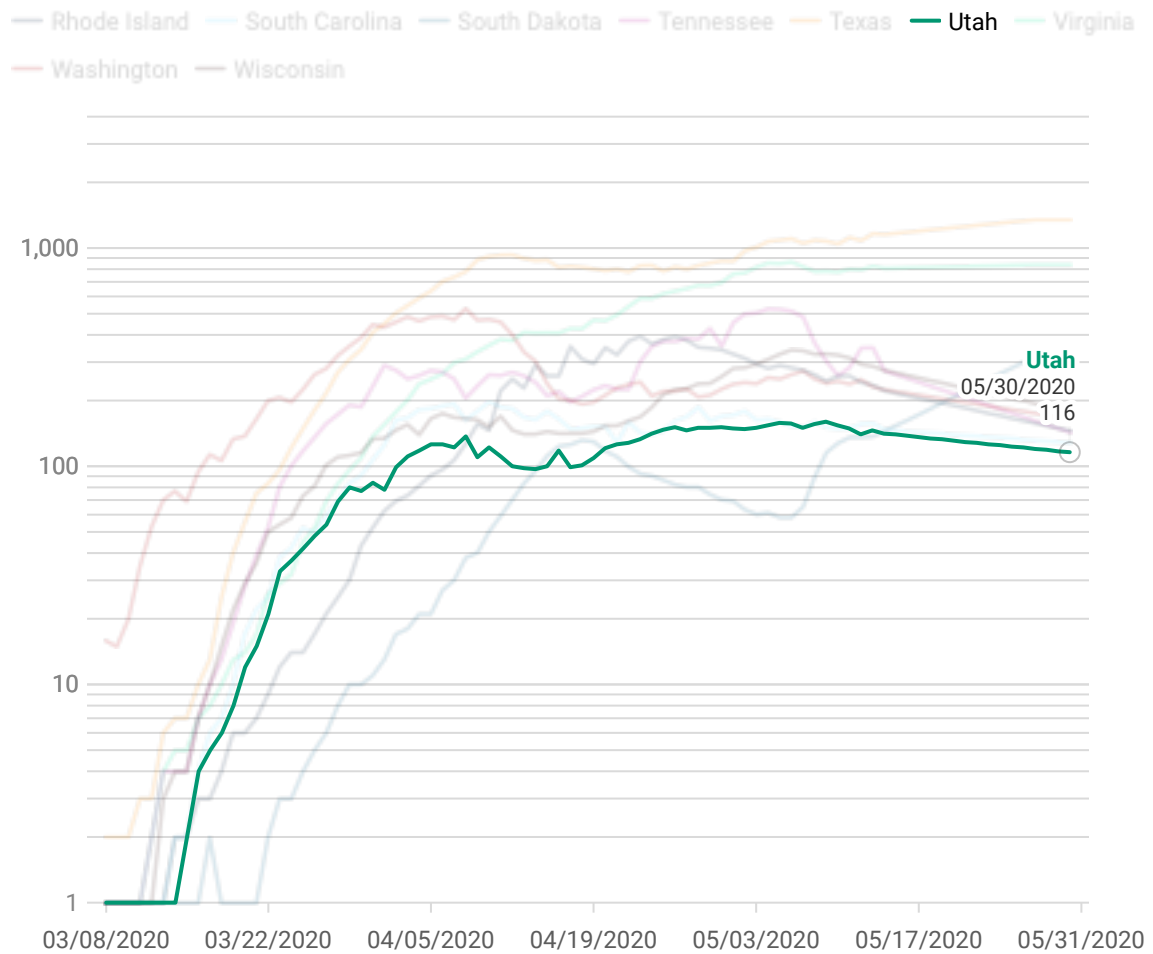
New Jersey New Mexico New York North Carolina Ohio Oklahoma Oregon
Pennsylvania Puerto Rico



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



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