

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

July 4, 2020 with Johns Hopkins Data from 7/3/2020.

- **Predicted daily deaths on 8/27/2020: 3,015** (previous run: 2,620; ~ 157,000 per 2 months)
- **Predicted daily cases on 8/27/2020: 88,535** (previous run: 72,765)
- **Total deaths predicted by 8/27/2020: 289,725** (previous run: 264,235 until 8/27)
- **Excluding New York & New Jersey: 238,212** (previous run: 214,336 until 8/27)
- **Total predicted cases by 8/27/2020: 7,687,842** (previous run: 6,562,541 until 8/27)

### Summary

Compared to the last model run 5 days ago, all numbers have gone up significantly. In view of many new records that were set both by individual states and the US in recent days, that does not come as a surprise. Today, Florida reports a new record of 11,455 cases. It is extremely likely that will see many more records in the coming weeks.

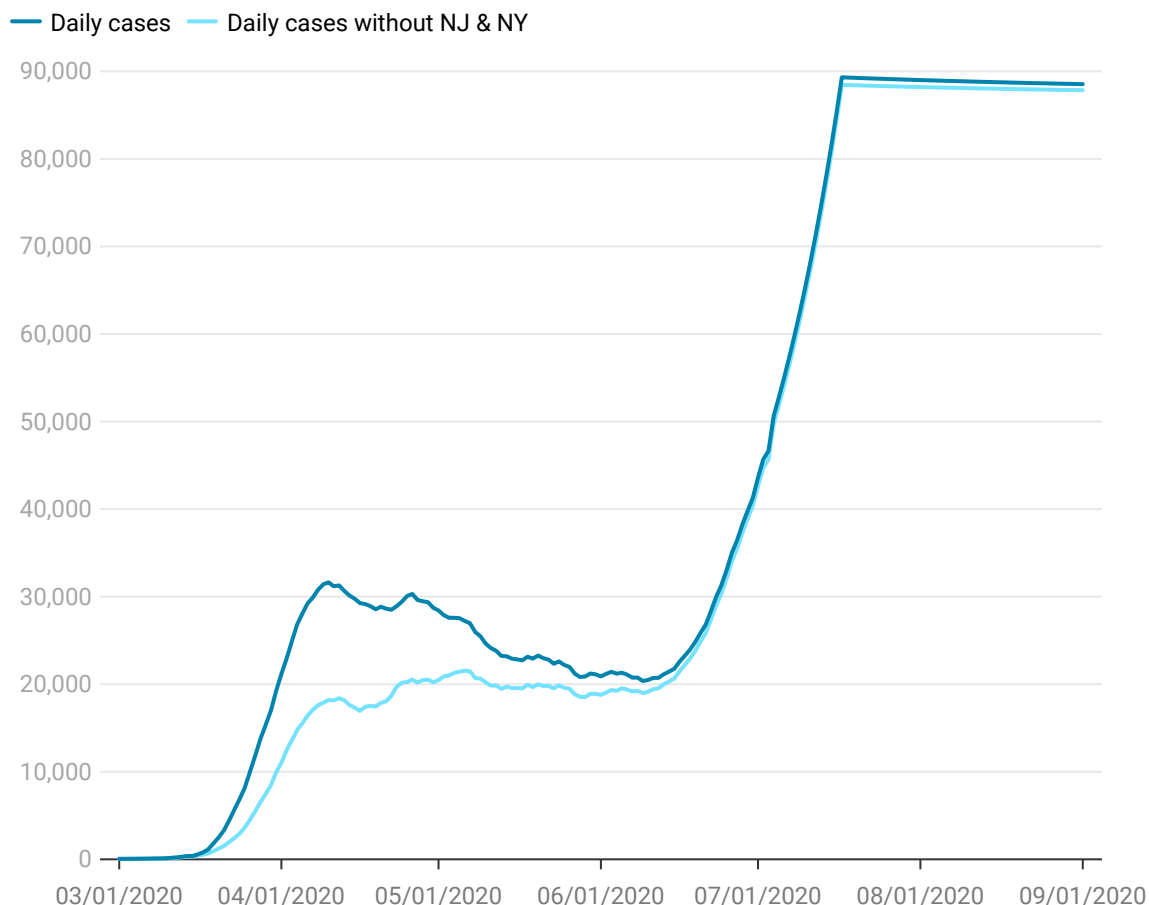
Most states that have shown strong growth in cases 5 days ago still show strong growth. They have been joined by a few states that had declining or near-constant predicted numbers. Most states that had strong predicted declines 5 days ago now have smaller declines, near-constant case numbers, or small increases.

The number of reported COVID-19 deaths has not yet gone up in the US, which has given many people a false sense of security. Ironically, this is partly due to increased test capacities, which has reduced wait times, and allows people to be tested even if they have light or minimal symptoms. This alone has increased the delay between a rise in case numbers and the corresponding rise in deaths from to at least three weeks, from about one week during the height of the epidemic in New York when testing was limited to patients with severe symptoms, and wait

times of up to two weeks to get test results were common. Together with other factors like younger people driving the current increases, and slower reporting of deaths by the currently affected states, it is likely that the total "death delay" may be longer than a month for some of the affected southern and western states.

## Daily actual and projected COVID-19 cases

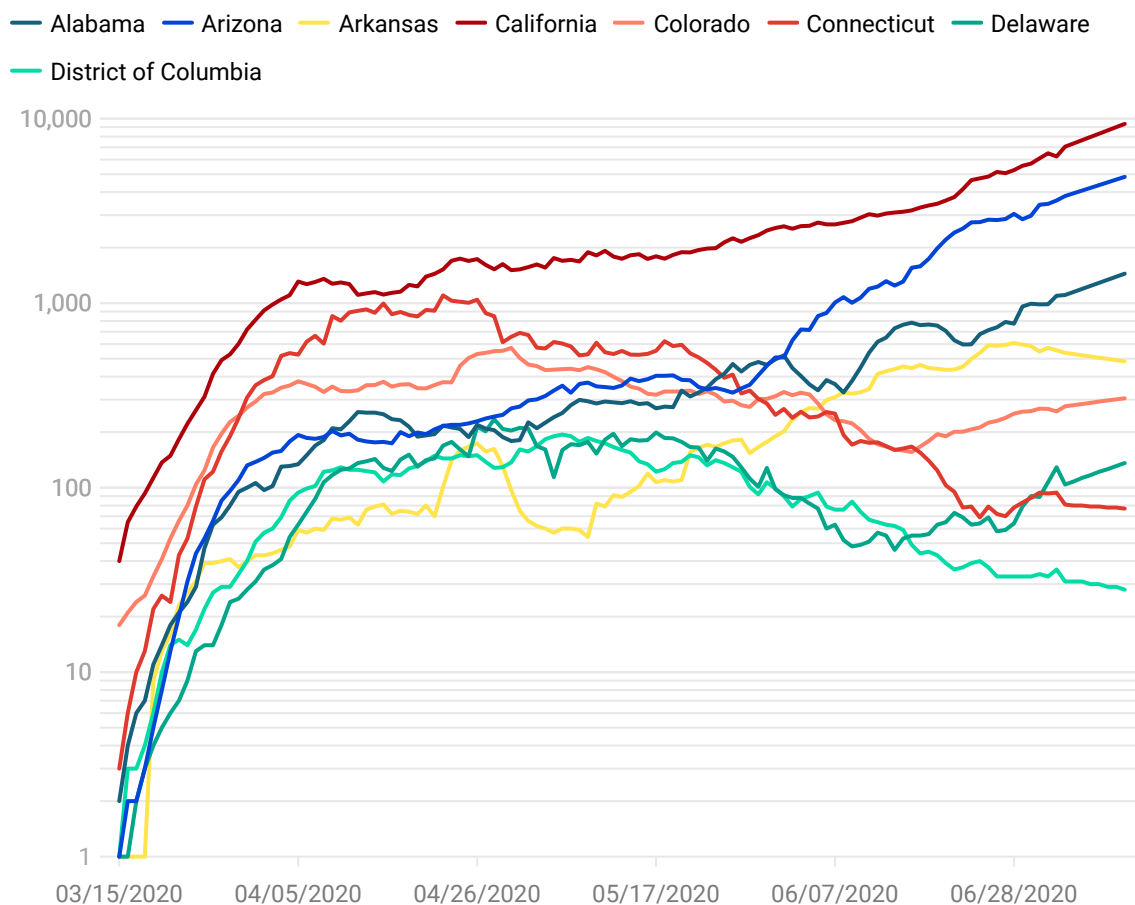
Using 7-day averages for actual cases; future growth limited to 14 days.



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)

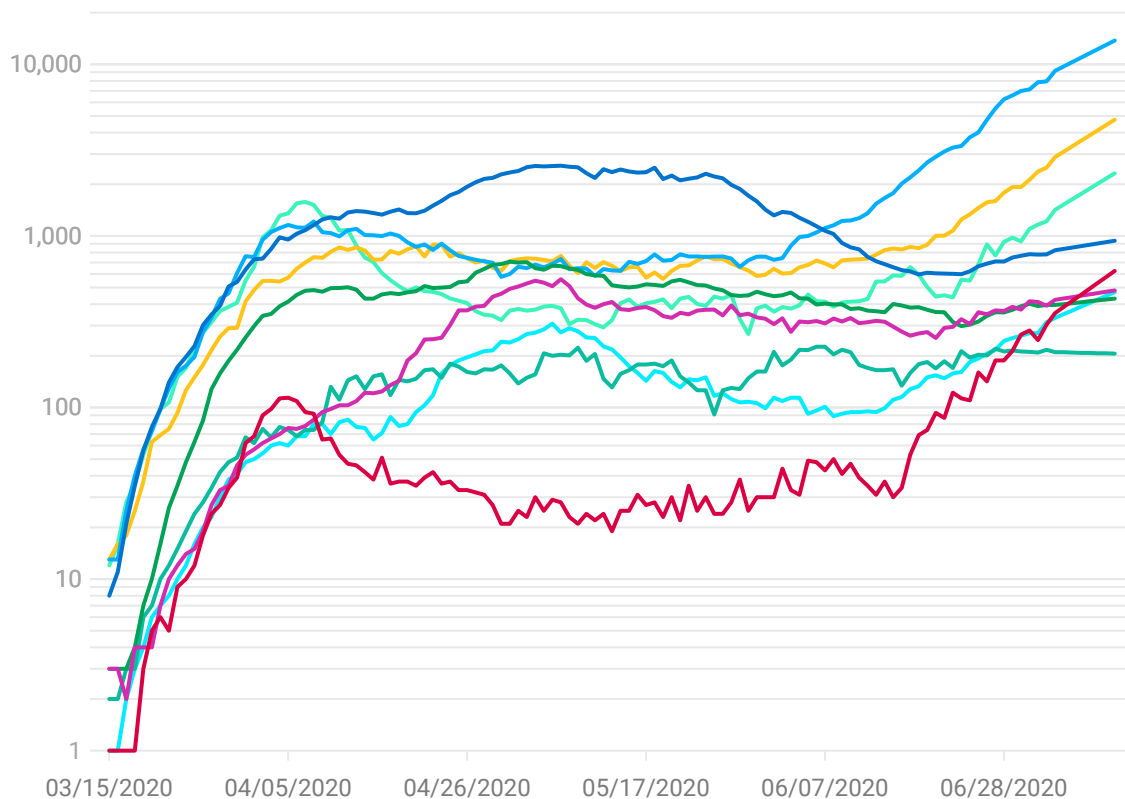


Daily model projections at <https://covid19science.blogspot.com/p/covid-19-model-projections.html>

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

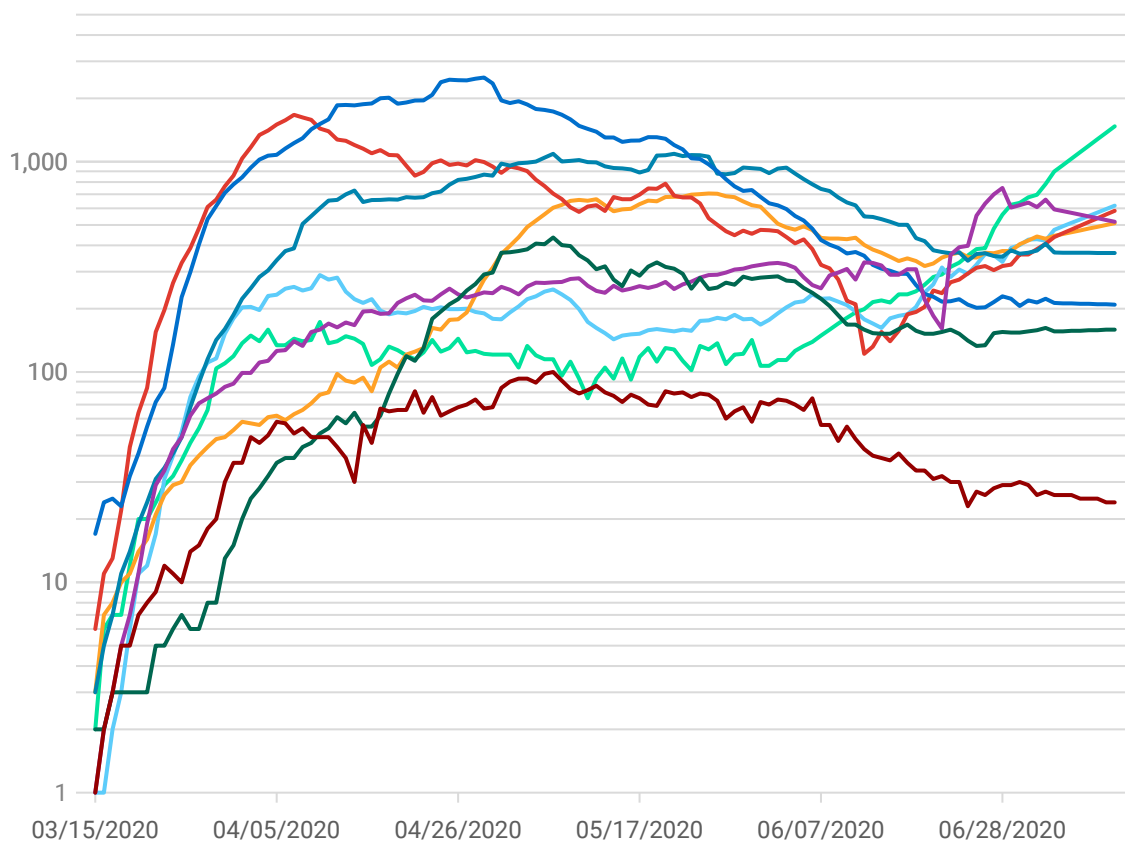


Daily model projections at <https://covid19science.blogspot.com/p/covid-19-model-projections.html>

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

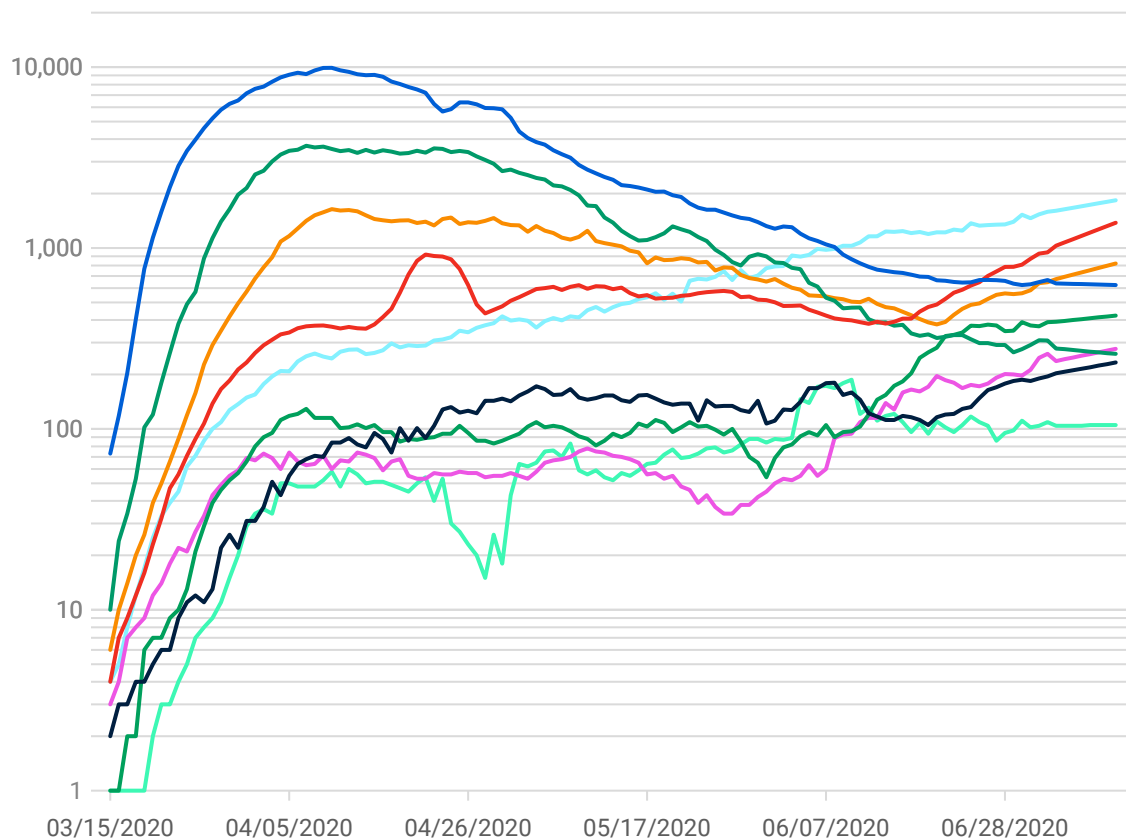


Daily model projections at <https://covid19science.blogspot.com/p/covid-19-model-projections.html>

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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

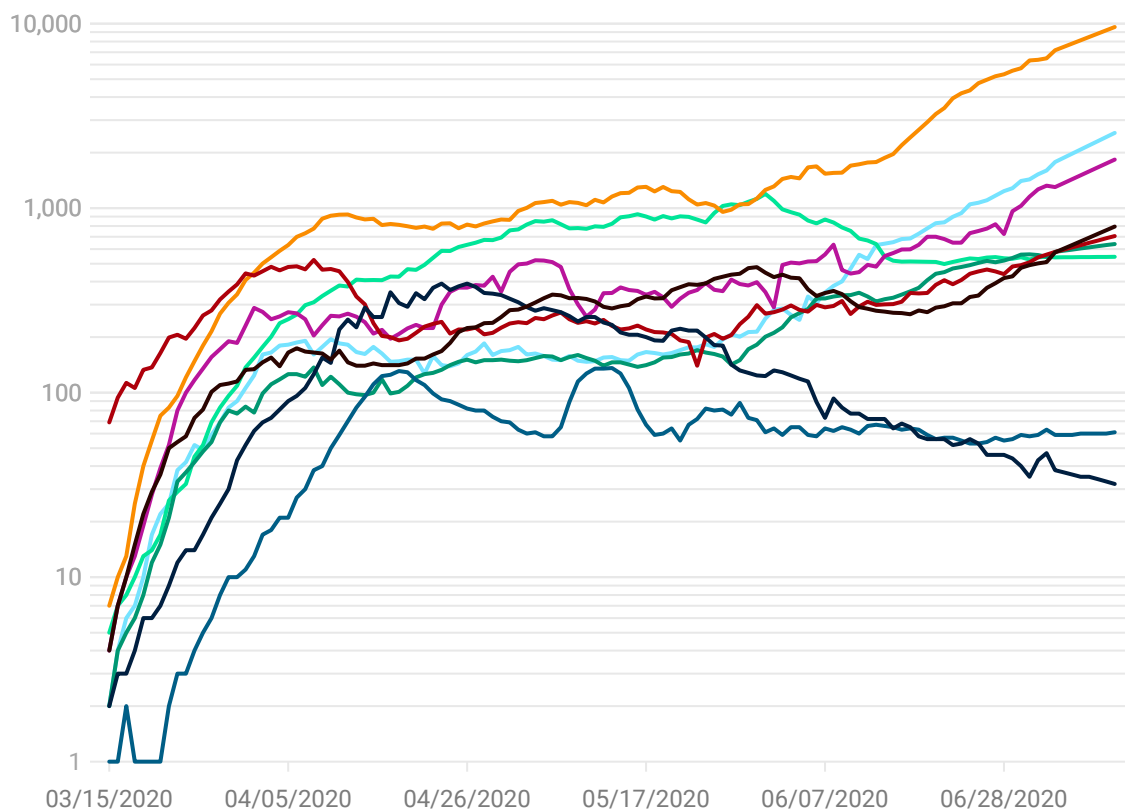


Daily model projections at <https://covid19science.blogspot.com/p/covid-19-model-projections.html>

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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



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

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