More

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.

Last model run

July 12, 2020 with Johns Hopkins Data from 7/11/2020.

- **Predicted daily deaths on 9/9/2020: 2,608** (previous run: 3,015; ~ 157,000 per 2 months)
- **Predicted daily cases on 9/9/2020: 81,227** (previous run: 88,535)
- **Total deaths predicted by 9/9/2020: 276,356** (previous run: 289,725 until 9/1)
- **Excluding New York & New Jersey: 225,062** (previous run: 238,212 until 9/1)
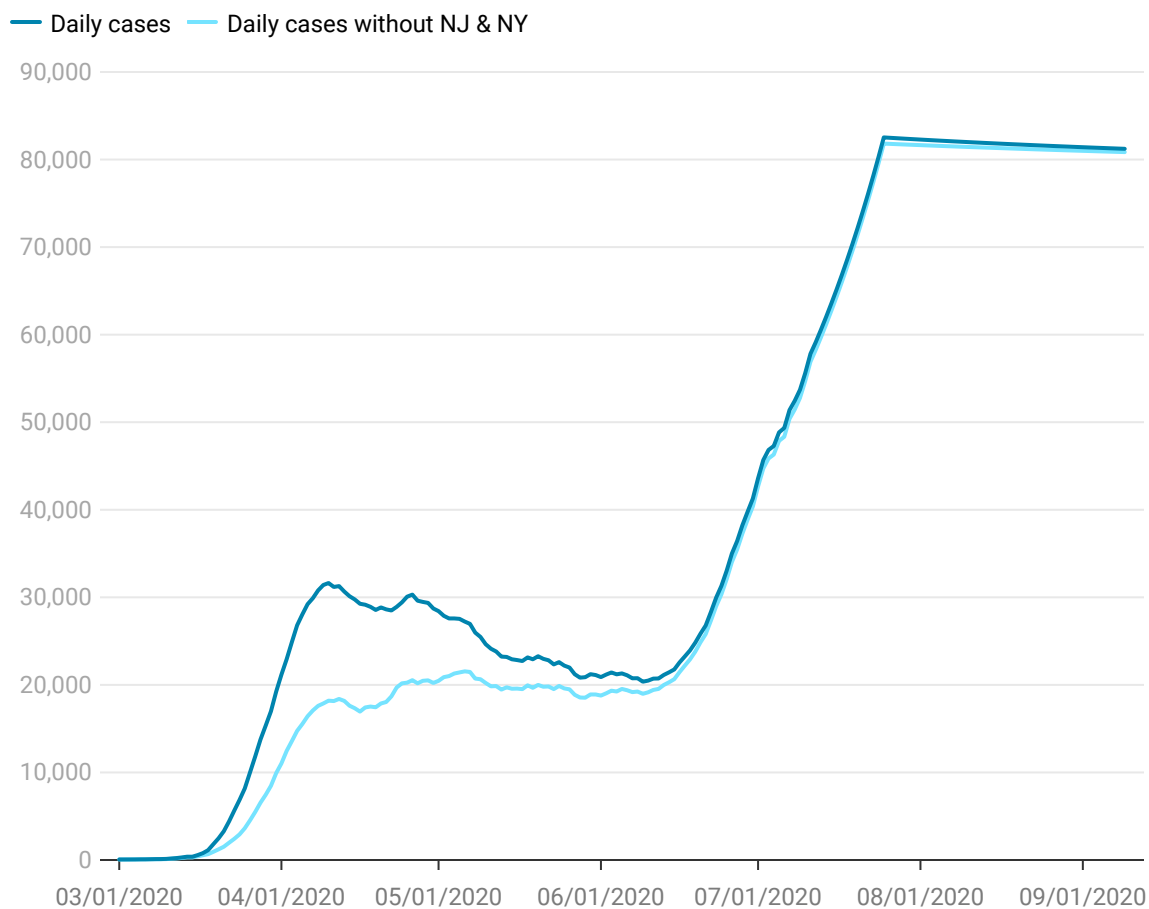- **Total predicted cases by 9/9/2020: 7,807,018** (previous run: 7,687,842 until 9/1)

Summary

Compared to the last model run 8 days ago, most numbers are roughly 10% lower. This is mostly due to a flattening in the projections for several states that had very rapid increases last week, including Florida, Arizona, Georgia, South Carolina and Tennessee.

In many of these states, re-opening measures have been partially rolled back, and several states, cities, and counties have made wearing face masks in public mandatory. From the current model predictions, it appears that this has stabilized new infections in many places, albeit often at a high rate. It remains to be seen if this trend is stable, or if the rollbacks and new restrictions are sufficient to *reduce* COVID-19 transmissions. That is questionable, considering that Florida has set an astonishing new record of 15,299 COVID-19 cases today.

Daily actual and projected COVID-19 cases

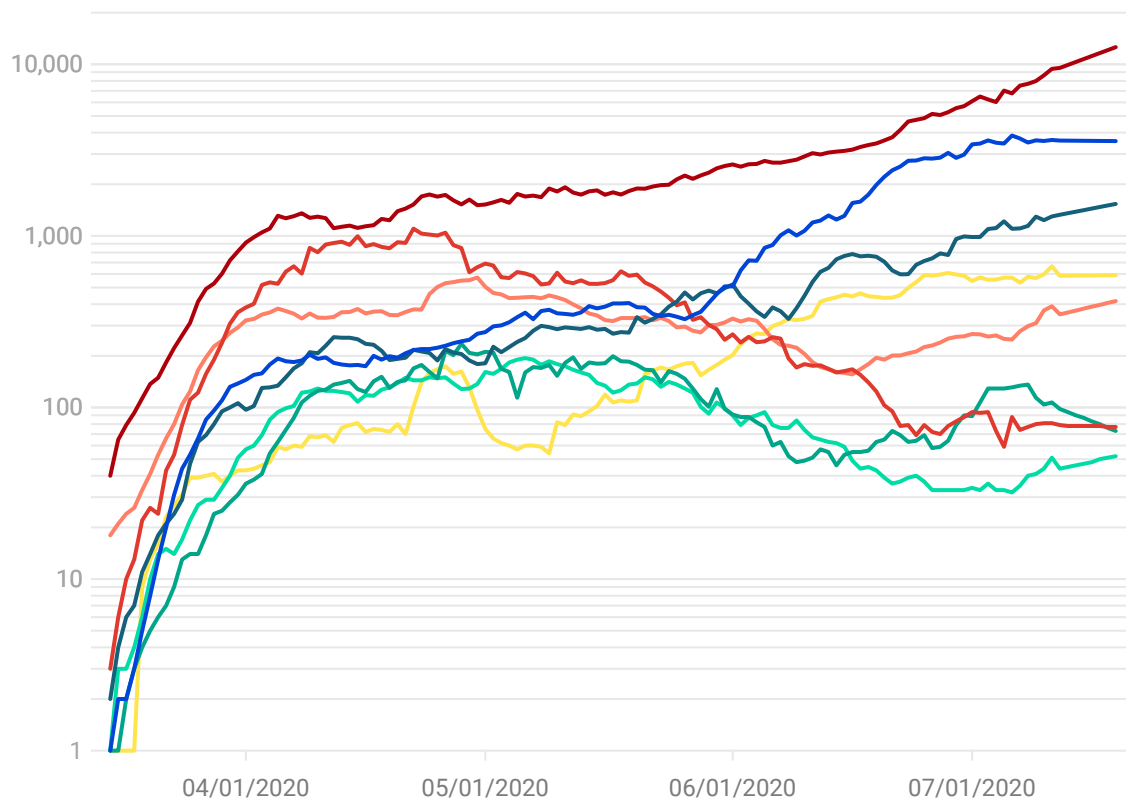Using 7-day averages for actual cases; future growth limited to 14 days.

— Daily cases   — Daily cases 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)

Legend: — Alabama — Arizona — Arkansas — California — Colorado — Connecticut — Delaware — District of Columbia
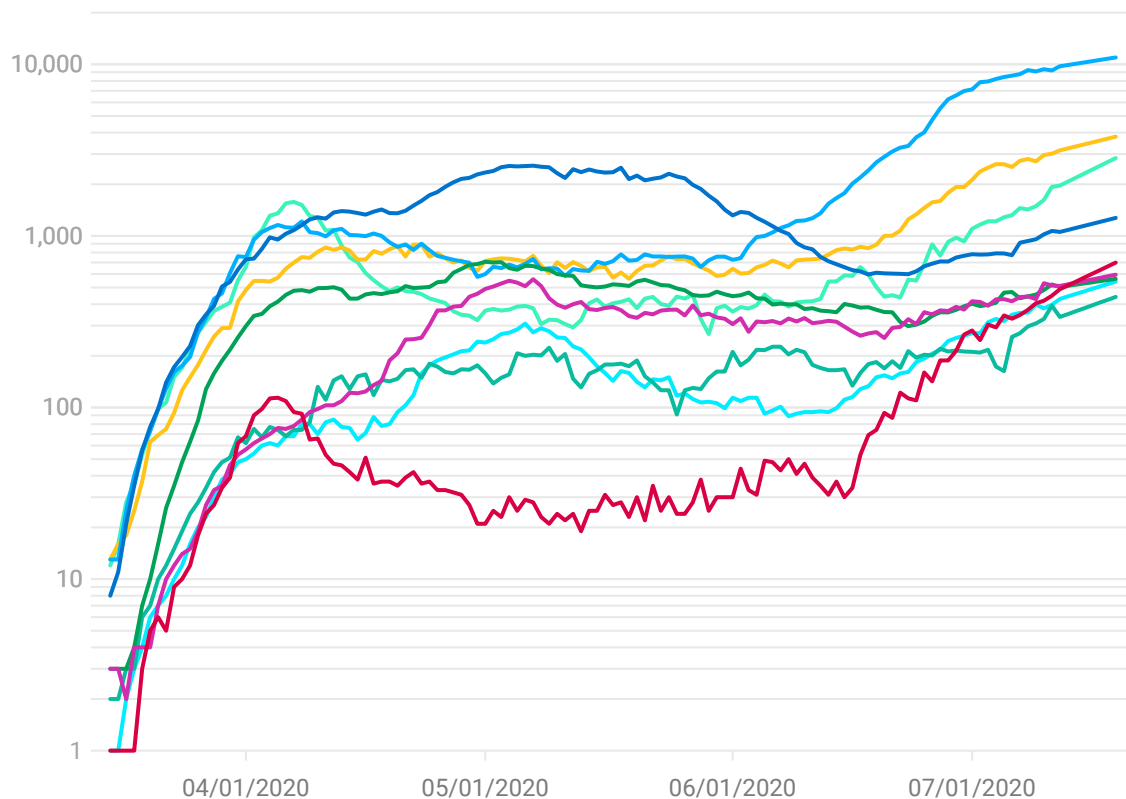

Daily model projections at https://covid19science.blogspot.com/p/covid-19-model-projections.html
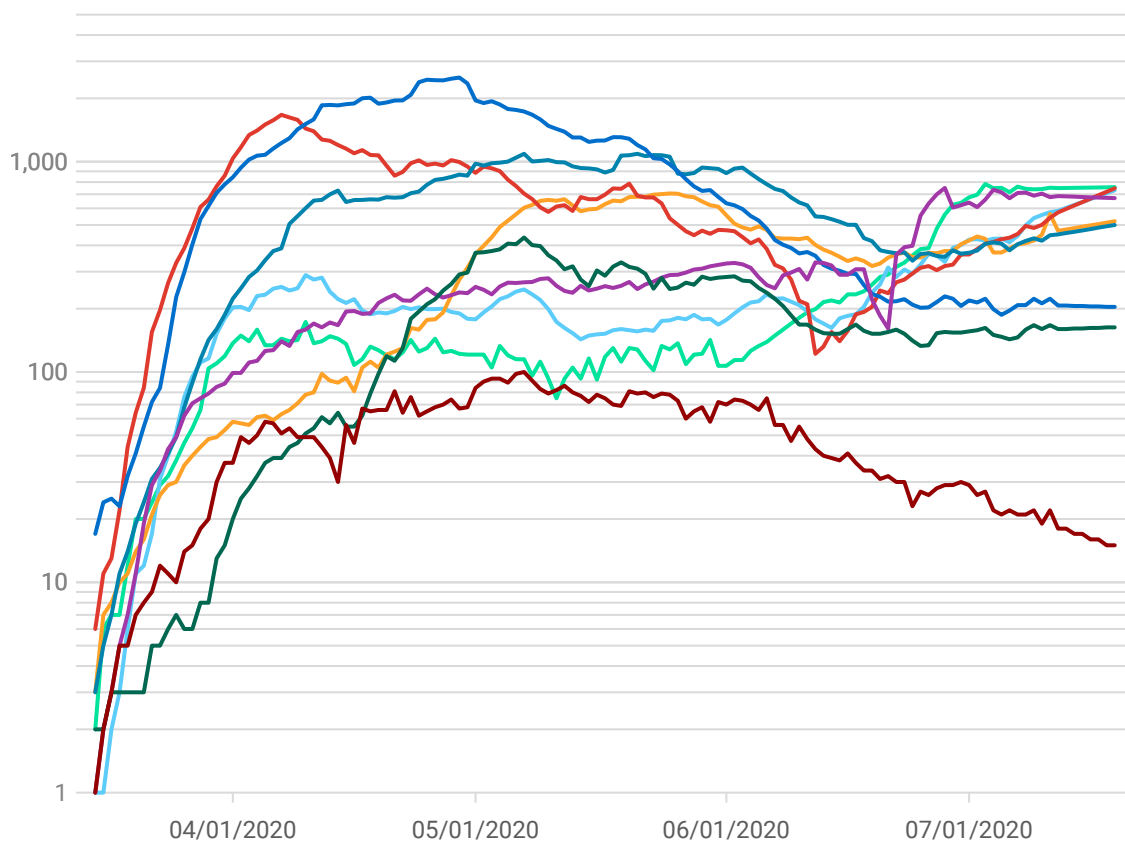
Chart: covid19science.blogspot.com • Get the data • Created with Datawrapper

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
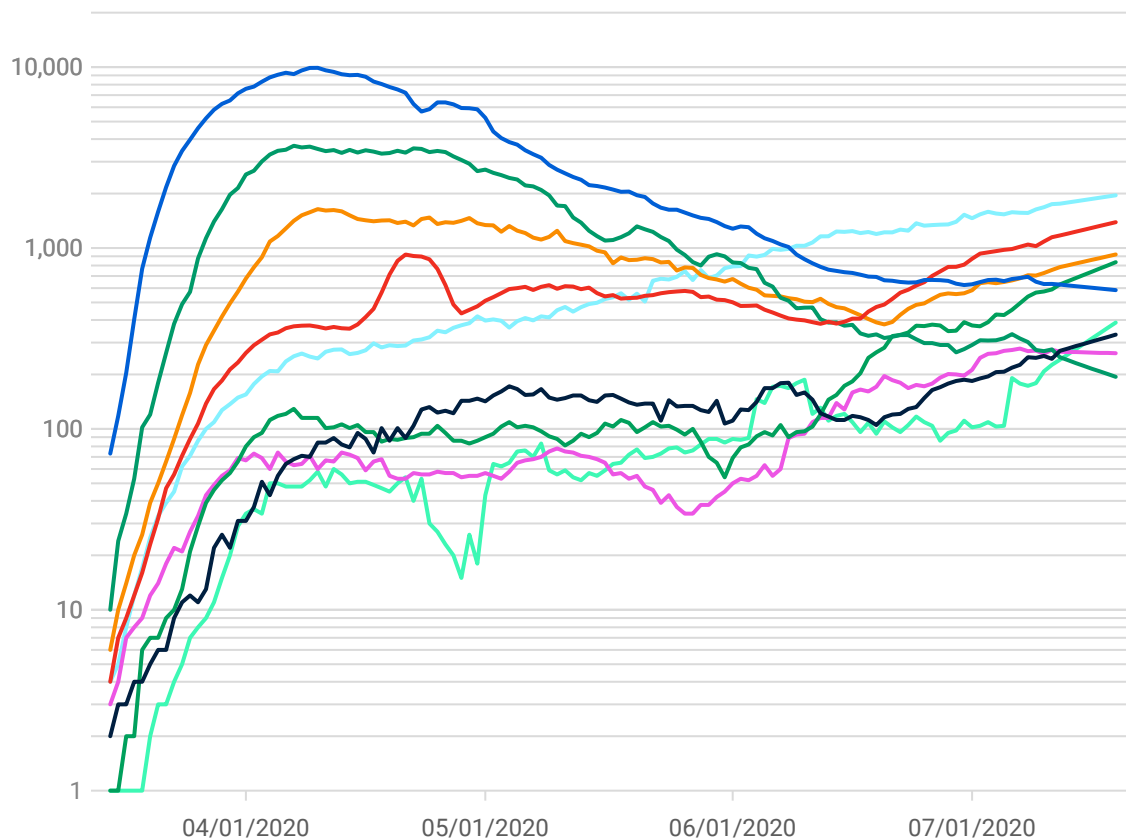— Nebraska — Nevada — New Hampshire

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
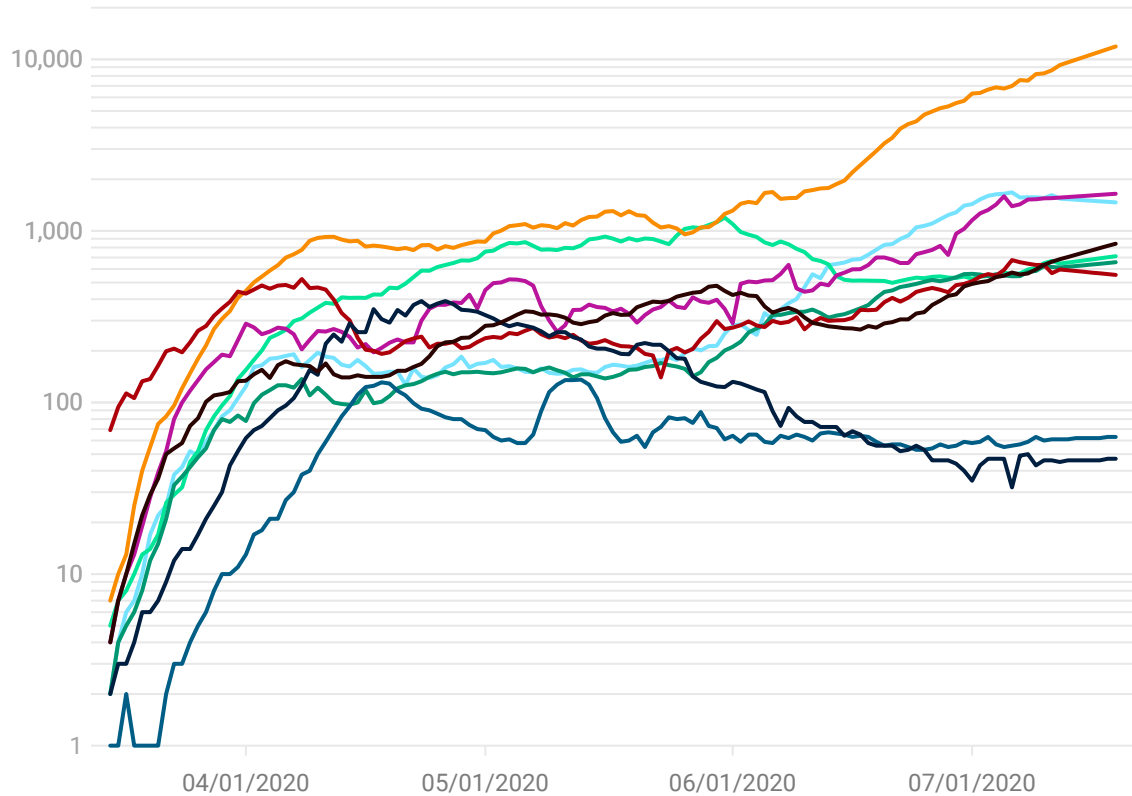
Chart: covid19science.blogspot.com • Get the data • Created with Datawrapper

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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