	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

June 23, 2020 with Johns Hopkins Data from 6/22/2020.

- **Predicted daily deaths on 8/21/2020: 1,707** (yesterday: 1,495; ~ 102,000 per 2 months)
- **Predicted daily cases on 8/21/2020: 45,659** (yesterday: 38,968)
- **Total deaths predicted by 8/21/2020: 214,415** (yesterday: 204,705 until 8/20)
- **Excluding New York & New Jersey: 167,627** (yesterday: 158,120 until 8/20)
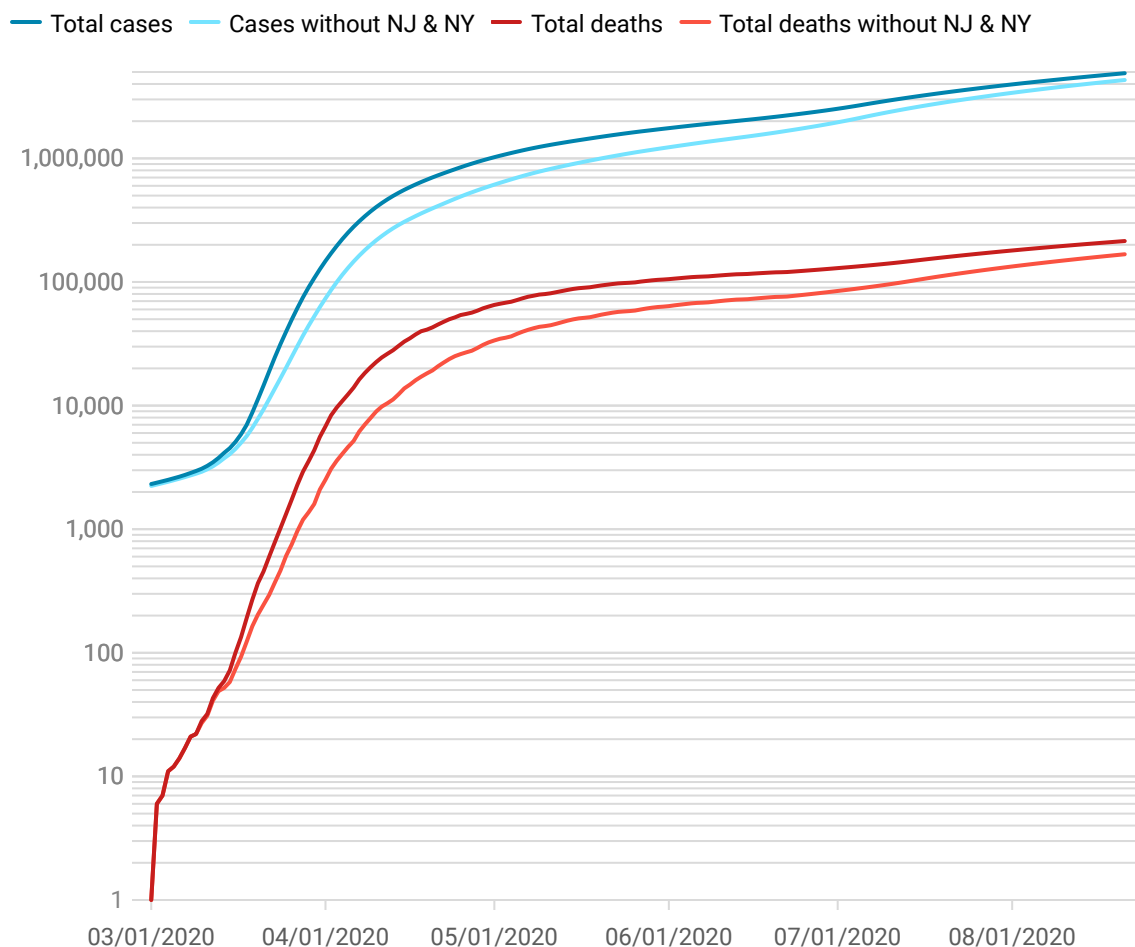
Summary

Once again, today's numbers show a large increase compared to yesterday. For the first time in the two months of model runs, the predicted number of daily cases at the end of the forecast is substantially higher than the record seen so far. Multiple states keep posting record numbers on an almost daily basis. Yesterday's total number of new COVID-19 cases for the US was 55% higher than a week earlier.

The observed and predicted increases are a major concern. The rapid increase in observed cases is happening even though about half of the states are still reported daily declines in case numbers. The record numbers at the end of the forecast period are seen even though the model restricts any future growth to 14 days, based on the assumption that states with increasing numbers would react by re-instating social distancing restrictions. However, the governors of Arizona, Florida, and Texas, three populous states with rapid growth in COVID-19 cases, all have stated that they have no intentions on doing so, despite rising case numbers and rising hospitalizations due to COVID-19.

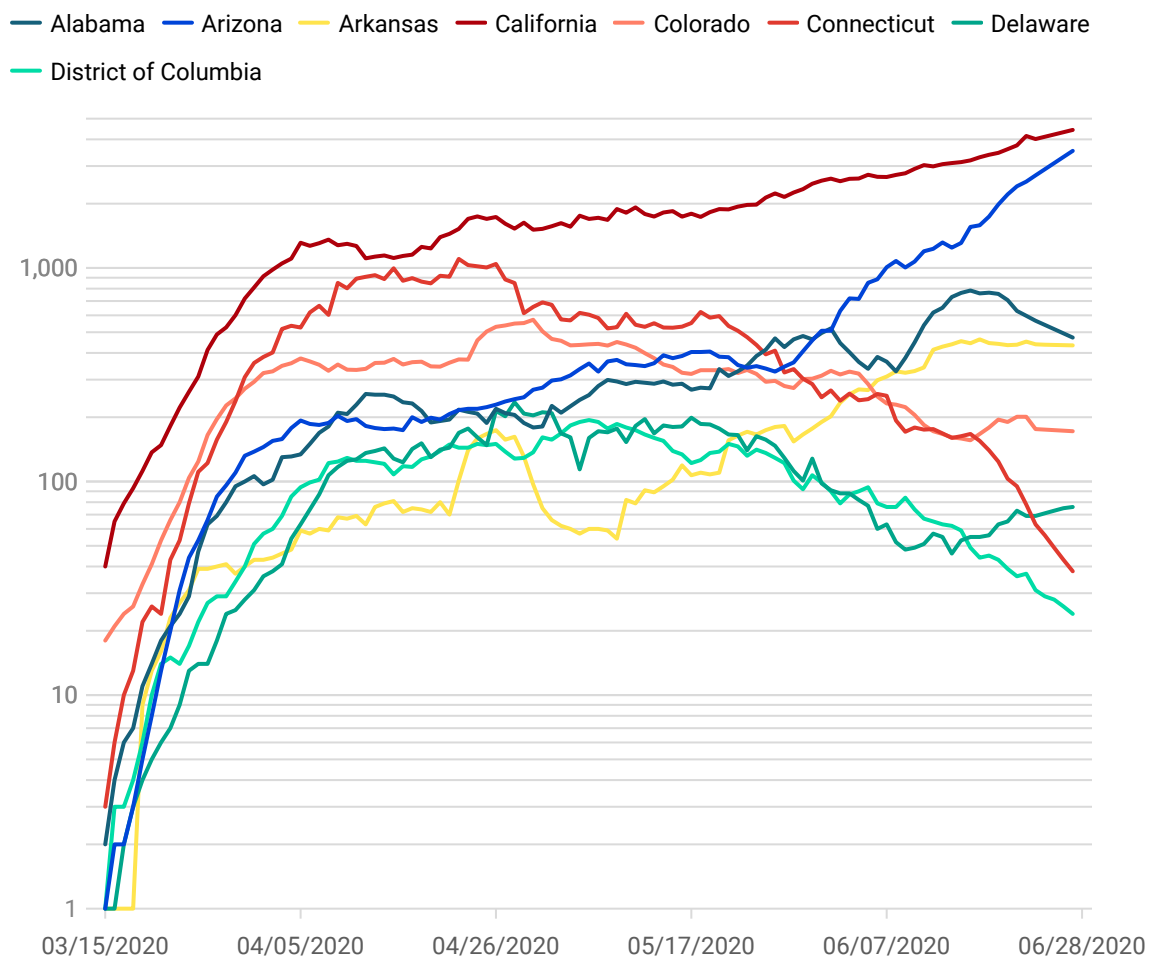# Total projected COVID-19 cases and deaths

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)

— 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

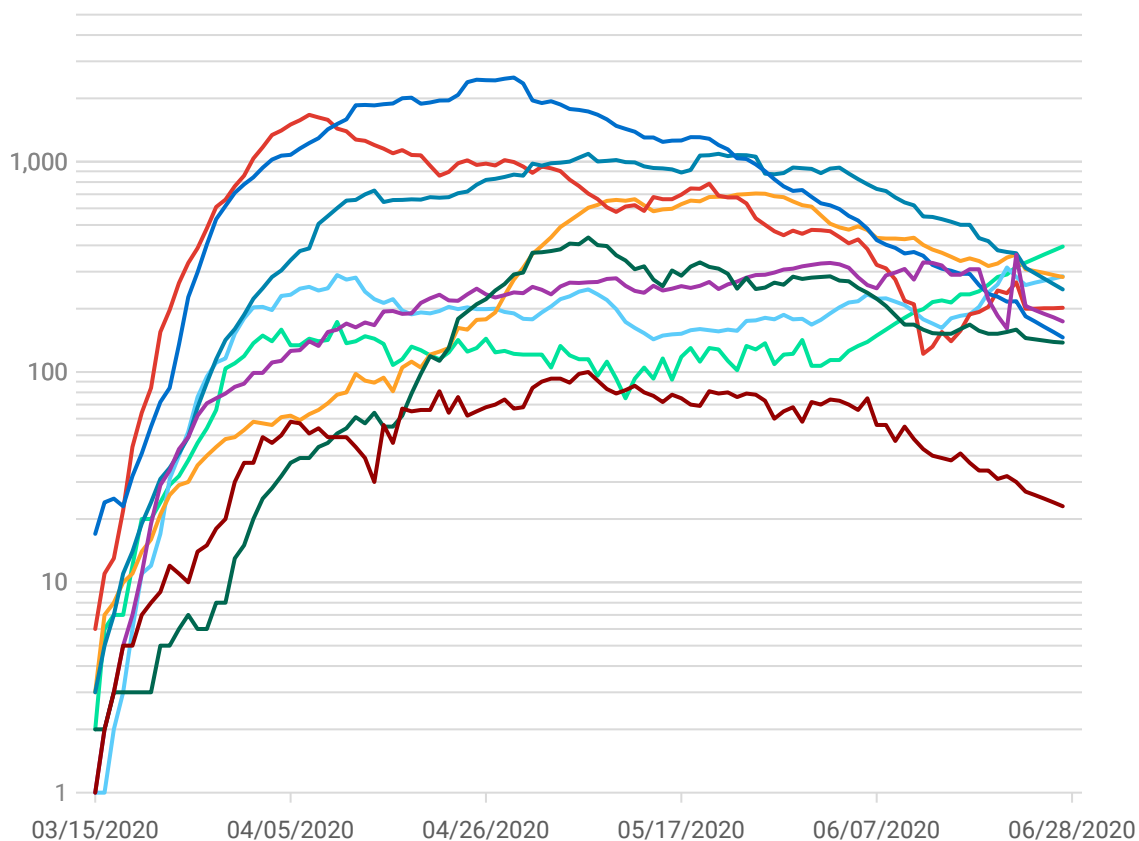# Actual and projected daily COVID-19 cases by state (FL-LA)

— Florida   — Georgia   — Idaho   — Illinois   — Indiana   — Iowa   — Kansas   — Kentucky

— Louisiana

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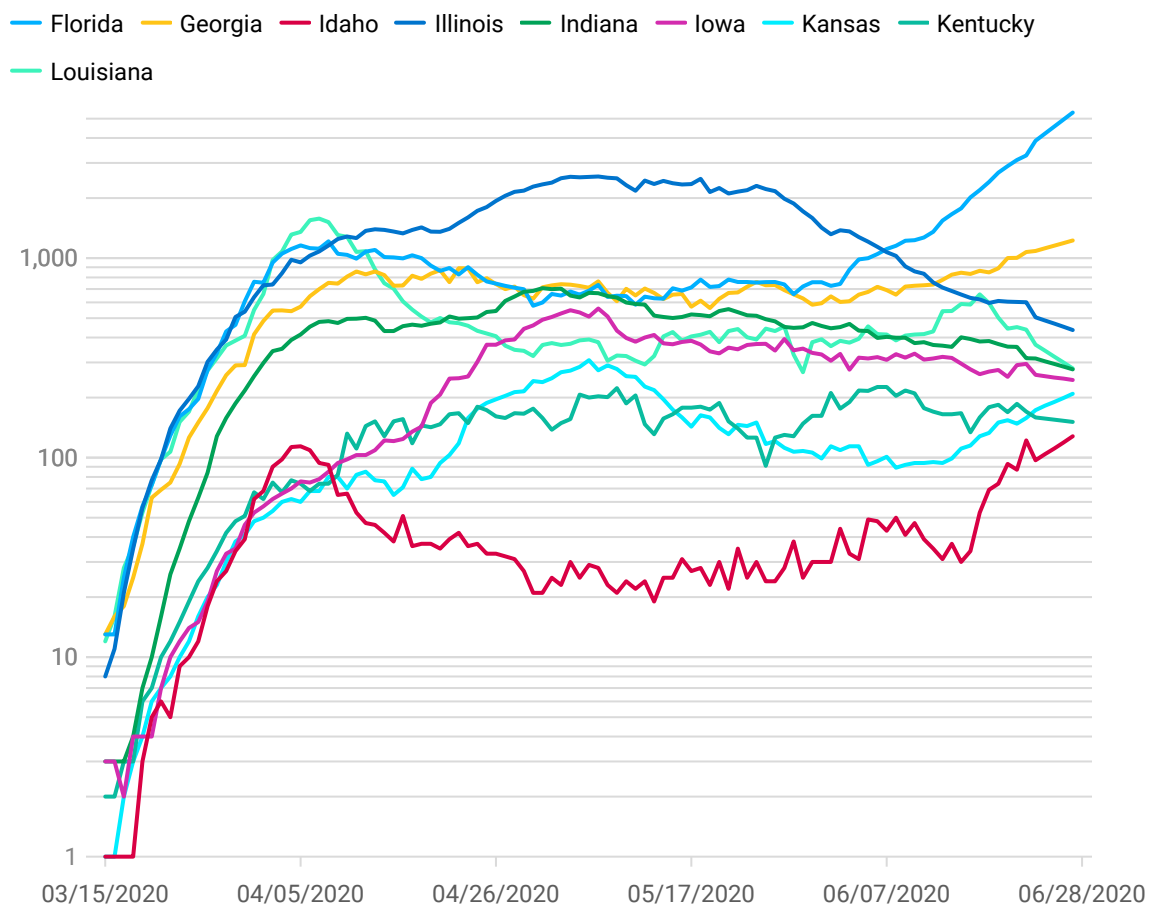
Chart: covid19science.blogspot.com • Get the data • Created with Datawrapper

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

— Maryland   — Massachusetts   — Michigan   — Minnesota   — Mississippi   — Missouri
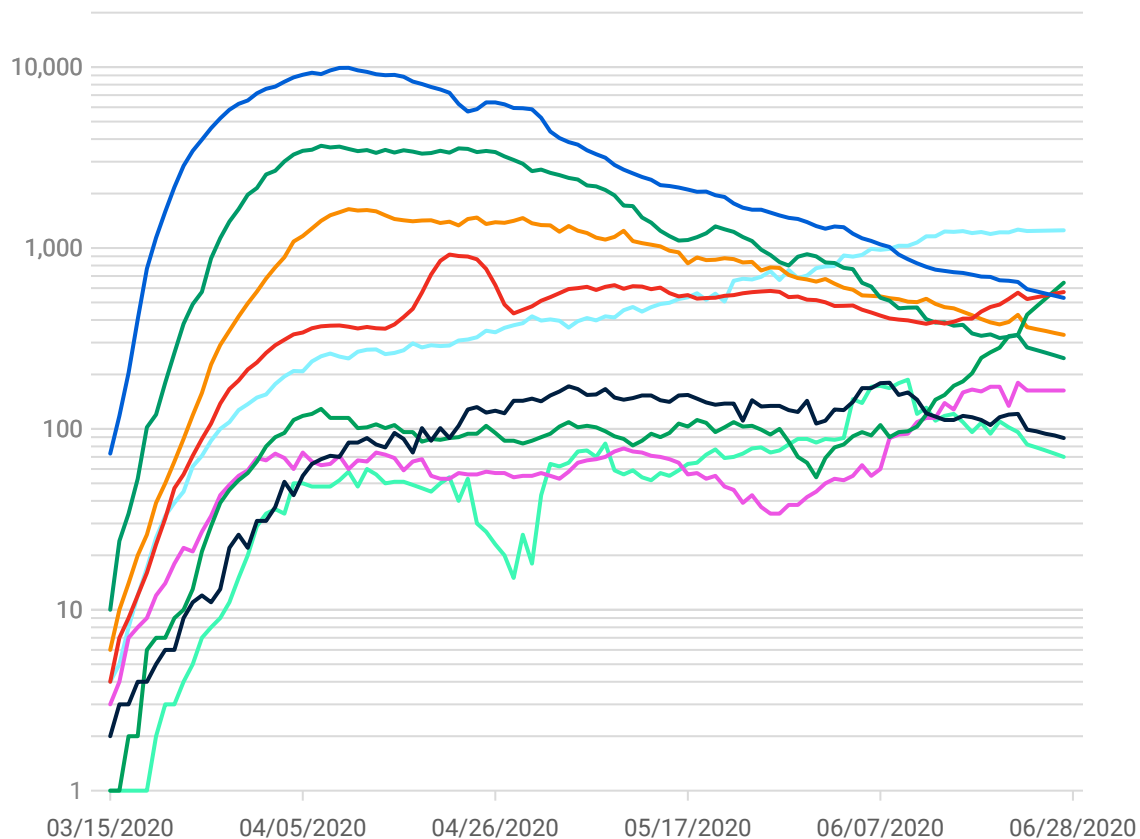
— Nebraska   — Nevada   — New Hampshire

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

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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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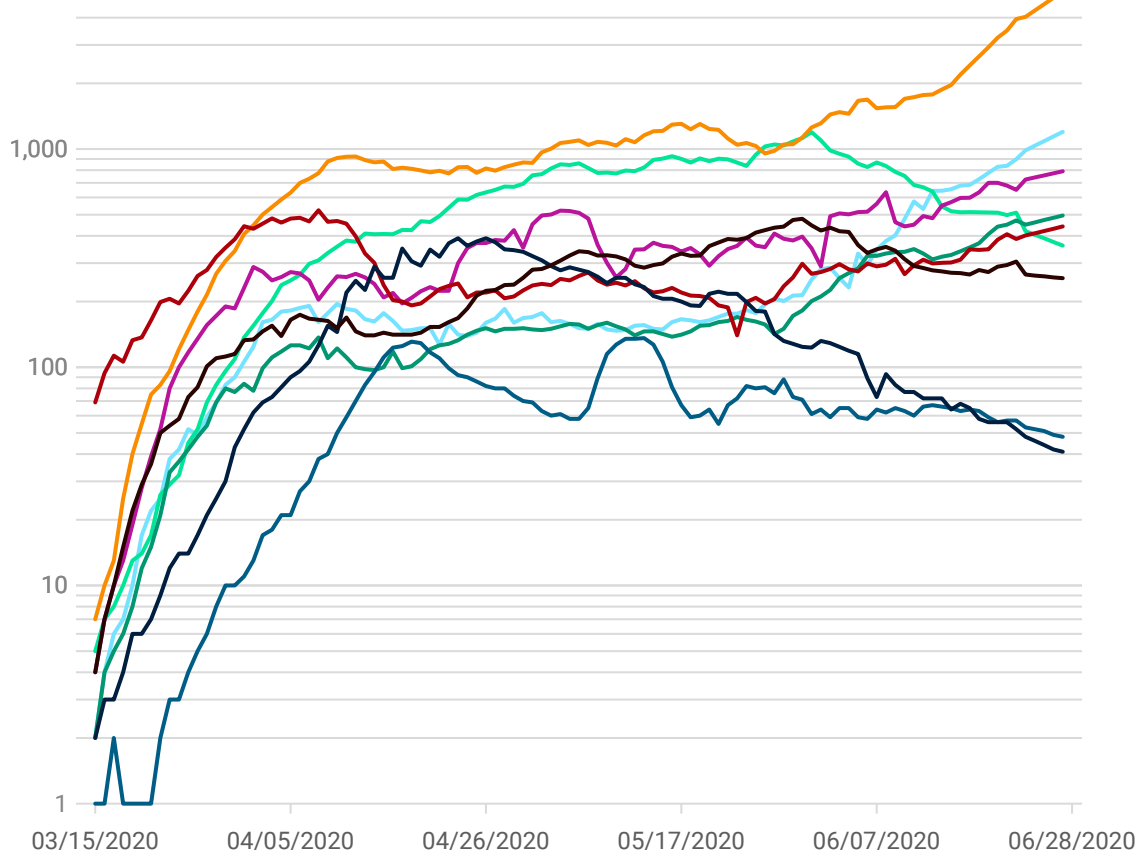
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