

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".

Last model run

April 22, 2020 with Johns Hopkins Data from 4/21/2020.

Summary

Today's model runs shows slightly higher numbers (about 175,000 total deaths within the next two months) than yesterday's run. This is because of two reasons:

- Today's totals includes *all* US states and regions in the Johns Hopkins dataset; yesterday's results did not include some of the smaller states and regions
- The data set now includes numbers for "US military" and "Veteran's Hospitals", about 5,500 total cases. Since these are newer than the 7-day window the model looks at, the model was modified to assume a constant number of daily cases for the new regions. Without this modification, it would have projected a strong growths for both categories, since there were no cases a week ago.

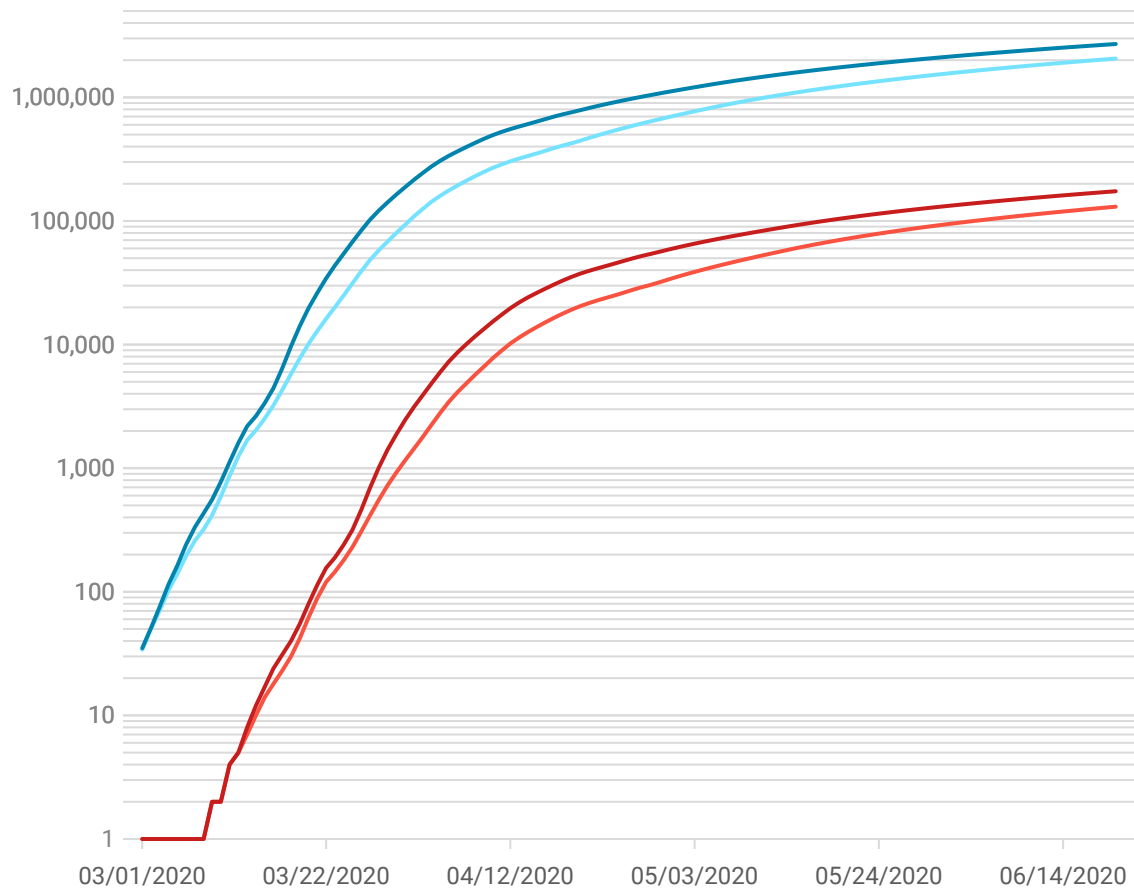
Eight states show strong downward trends in case numbers today, and several more states show a smaller downward trend. A similar number of states show upward trends.

The total numbers shown are calculated by adding the projections for all individual states and regions. At the end of the forecast period, the number of projected COVID-19 deaths *per day* is about 2,100, or about 63,000 *per month*. This is only slightly lower than today's rate of 2,341 deaths.

Total projected COVID-19 cases and deaths

Future growth in cases per day limited to 14 days per state; 174,026 deaths by 6/20/2020

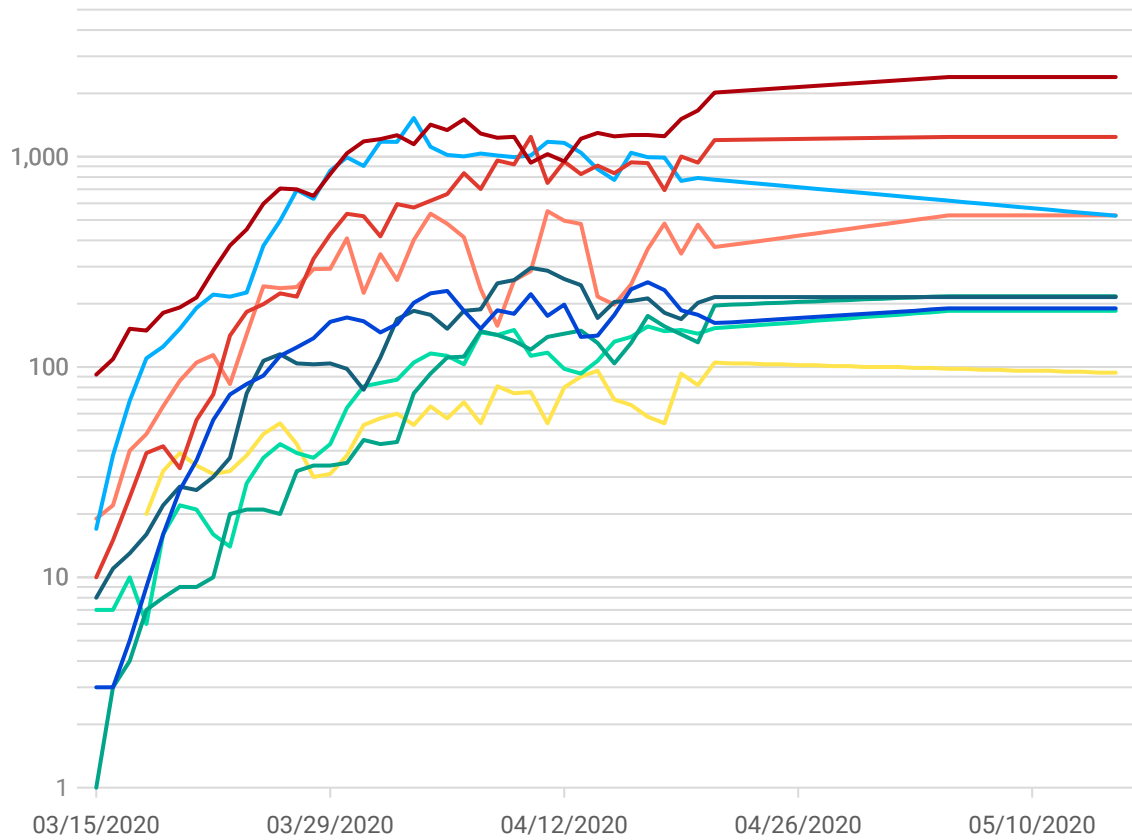
— Total cases — Cases without NJ & NY — Total deaths — Total deaths without NJ & NY



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Actual and projected daily COVID-19 cases by state (A-F)

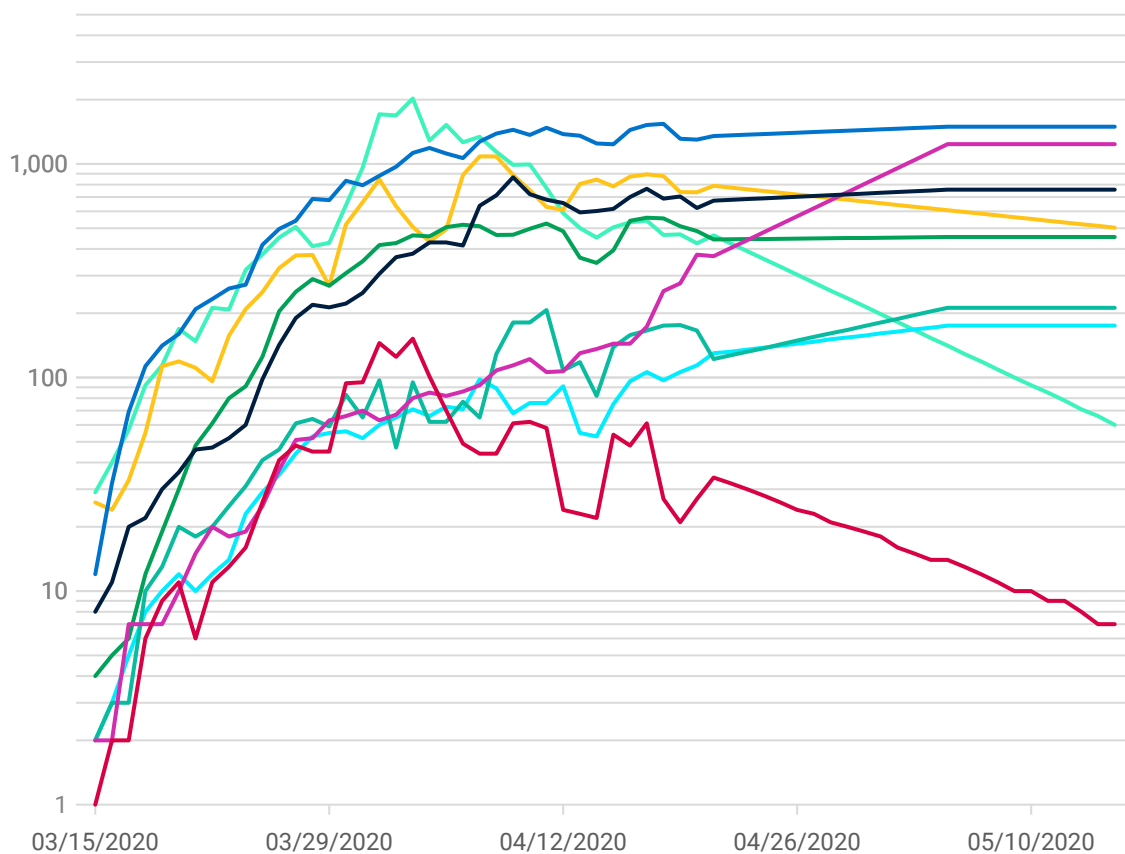
Alabama Arizona Arkansas California Colorado Connecticut Delaware
District of Columbia Florida



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Actual and projected daily COVID-19 cases by state (G-M)

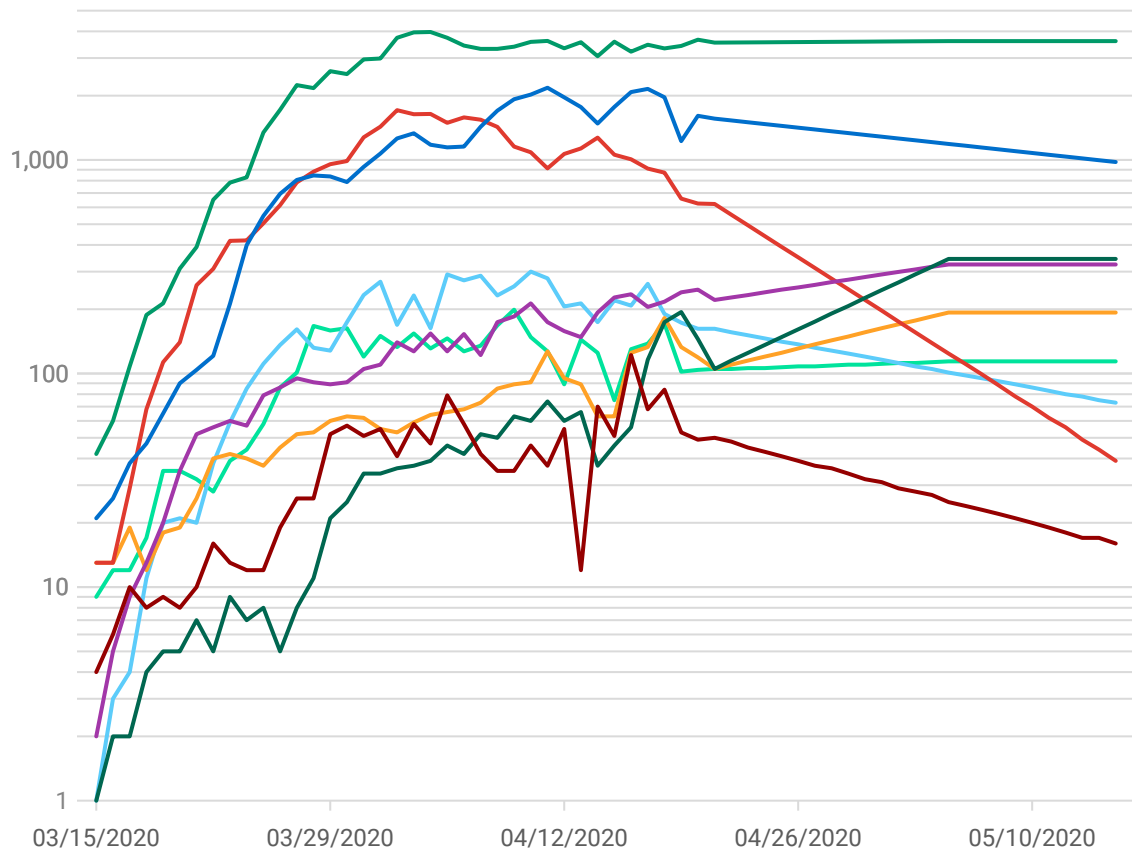
Georgia Idaho Illinois Indiana Iowa Kansas Kentucky Louisiana
Maryland



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Actual and projected daily COVID-19 cases by state (M-N)

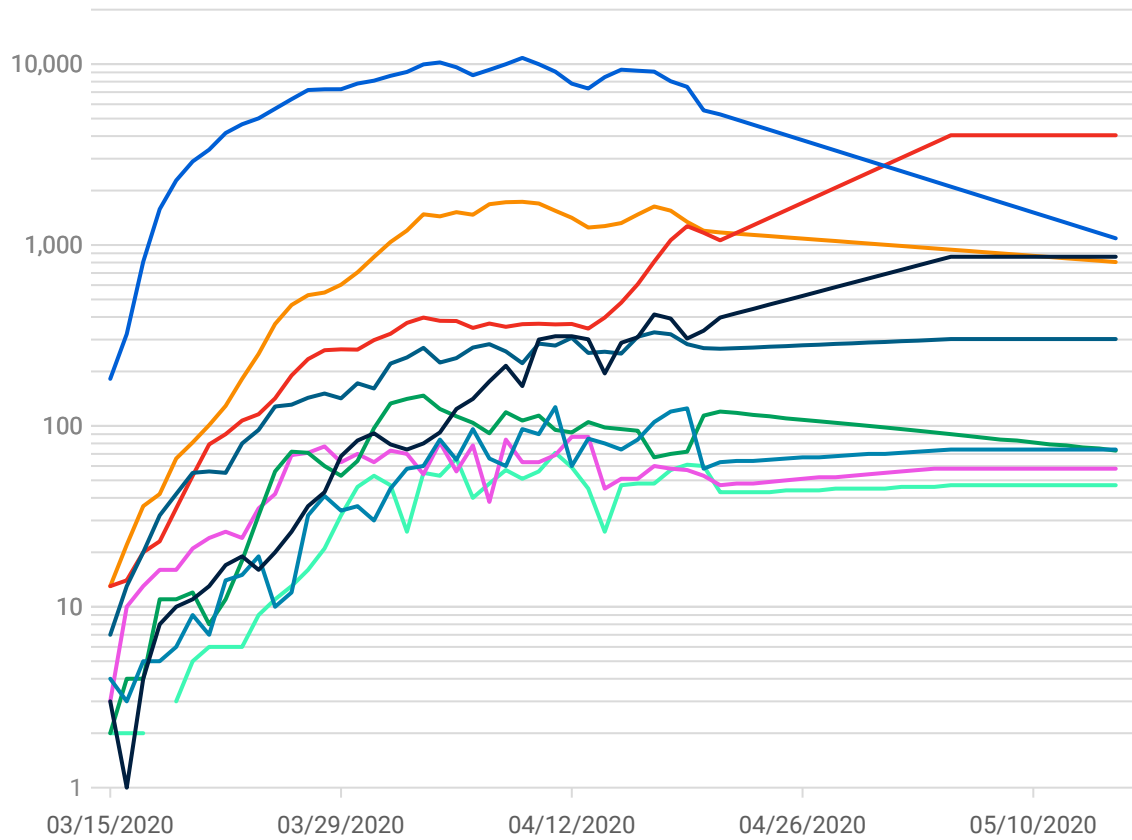
Massachusetts Michigan Minnesota Mississippi Missouri Nebraska
Nevada New Hampshire New Jersey



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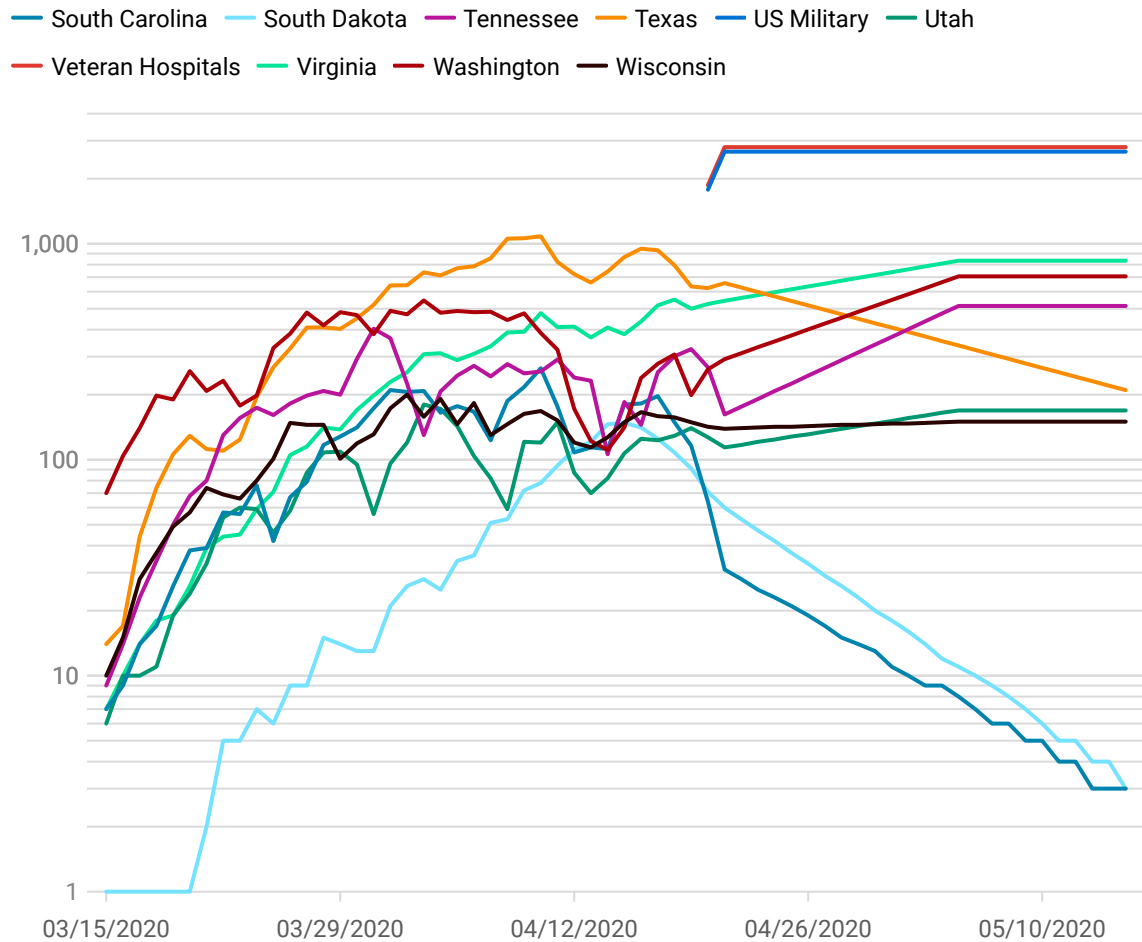
Actual and projected daily COVID-19 cases by state (N-R)

— New Mexico — New York — North Carolina — Ohio — Oklahoma — Oregon
— Pennsylvania — Puerto Rico — Rhode Island



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Actual and projected daily COVID-19 cases by state (S-W)



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