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.

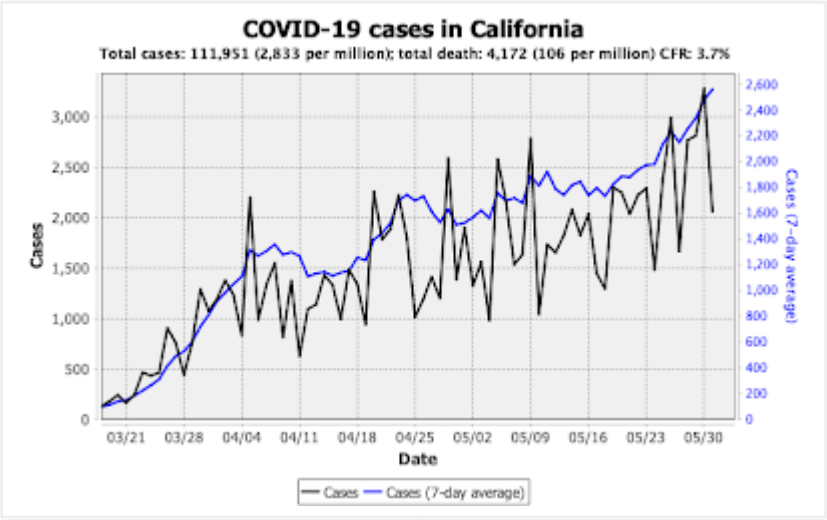
Last model run

June 1, 2020 with Johns Hopkins Data from 5/31/2020.

- **Predicted daily deaths on 7/30/2020: 654** (yesterday: 609; ~ 40,000 per 2 months)
- **Predicted daily cases on 7/30/2020: 13,425** (yesterday: 12,234)
- **Total deaths predicted by 7/30/2020: 156,842** (yesterday:155,248 until 7/29)
- **Excluding New York & New Jersey: 109,382** (yesterday: 107,729 until 7/29)

Summary

Today's numbers are higher than yesterday. In May, several states have seen a ~50% increase of reported COVID-19 cases. This includes California:



However, the increase in reported cases is partly due to increased testing, and it is difficult to tell how much of the increase is due to increase in transmissions. The testing numbers at

covidtracking.com show that most of the testing increases happened by May 17. In contrast, most of the increase in reported cases happened after May 17. This indicates that the primary cause of the higher reported case numbers for California is an actual increase in COVID-19 transmissions.

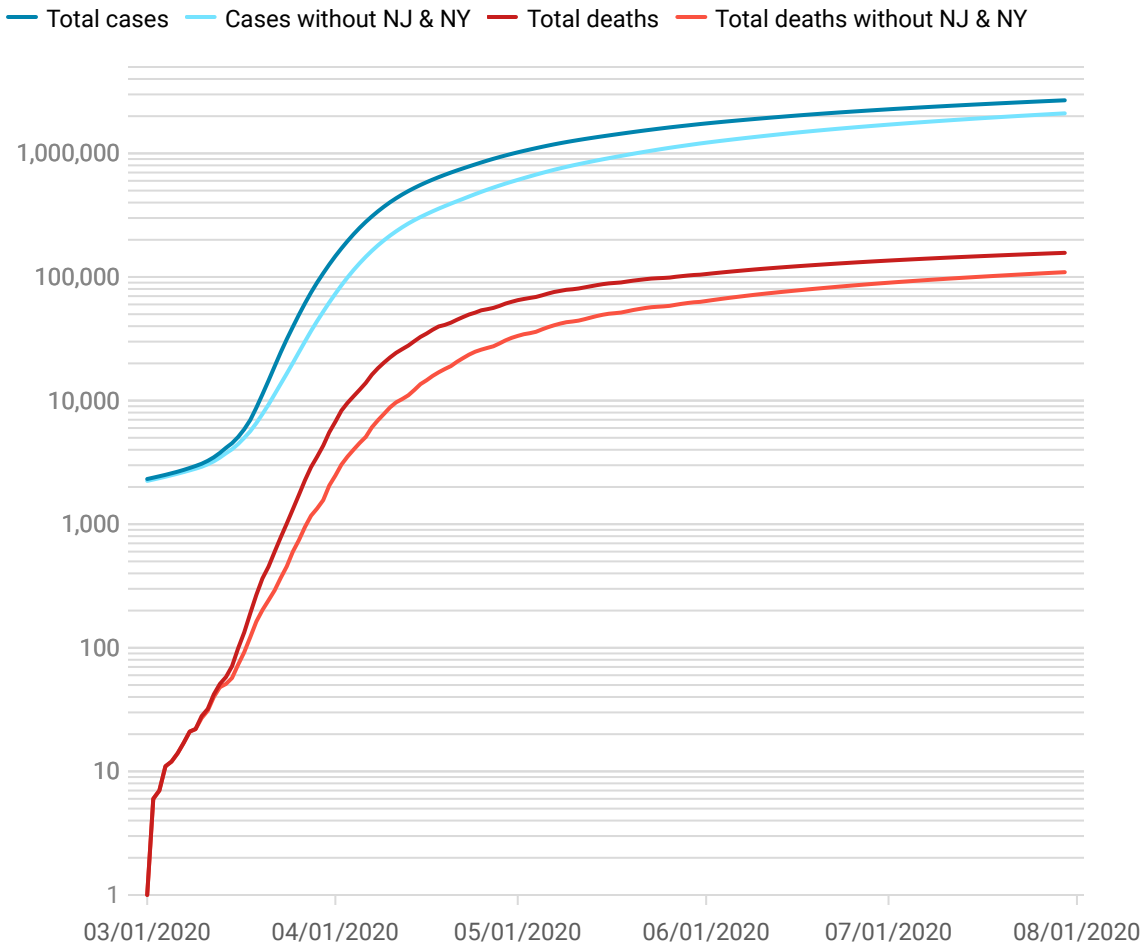
In California, about 40% of the deaths from COVID-19 are reported in the "mystery death" categories, as the CDC death category spreadsheet shows:

Jurisdiction of Occurrence	Week Ending Date	Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	COVID-19 (U071, Multiple Cause of Death)
California	2020-05-16	177	176
California	2020-05-09	287	438
California	2020-05-02	290	446
California	2020-04-25	304	422
California	2020-04-18	291	500
California	2020-04-11	265	369
California	2020-04-04	198	282
California	2019-05-18	30	0
California	2019-05-11	14	0
California	2019-05-04	29	0
California	2019-04-27	28	0
California	2019-04-20	31	0
California	2019-04-13	22	0
California	2019-04-06	29	0

Taking into account that many death certificates from the most recent weeks are not yet included in the analysis, the number of COVID-19 deaths in California has been stable at wound 700-750 cases per week since the middle of April. Since deaths happen about 2-3 weeks after symptom onset, the apparent increase in transmissions in the last two weeks of May should cause a similar increase in deaths in early to mid June. If California should follow the pattern observed in Florida, where an increasing number of COVID-19 deaths did not show COVID-19 as a cause of deaths, but rather the "mystery death" categories R00-R99, then this increase will not be visible until the death certificate summaries are published by the CDC towards the end of June.

Total projected COVID-19 cases and deaths

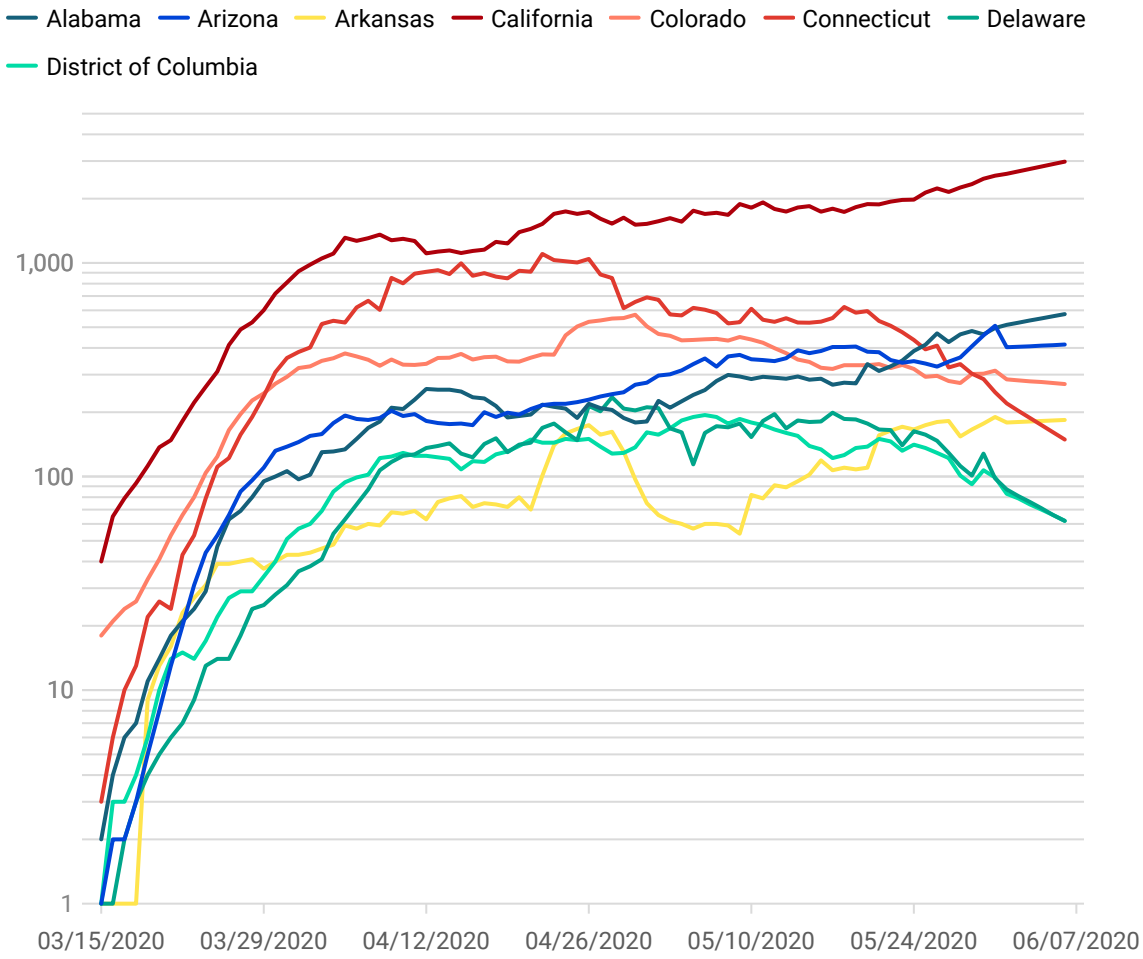
Future growth in cases per day limited to 14 days.



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)



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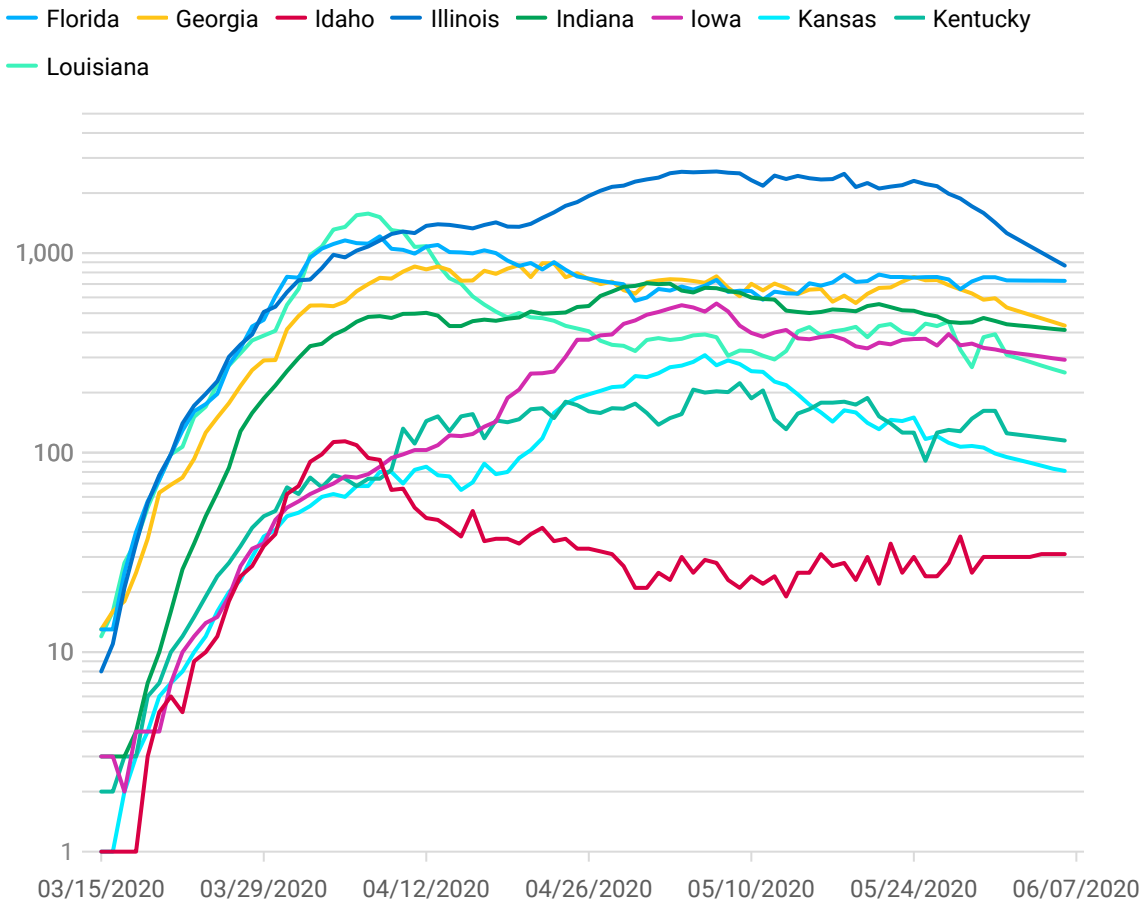
Actual and projected daily COVID-19 cases by state (FL-LA)



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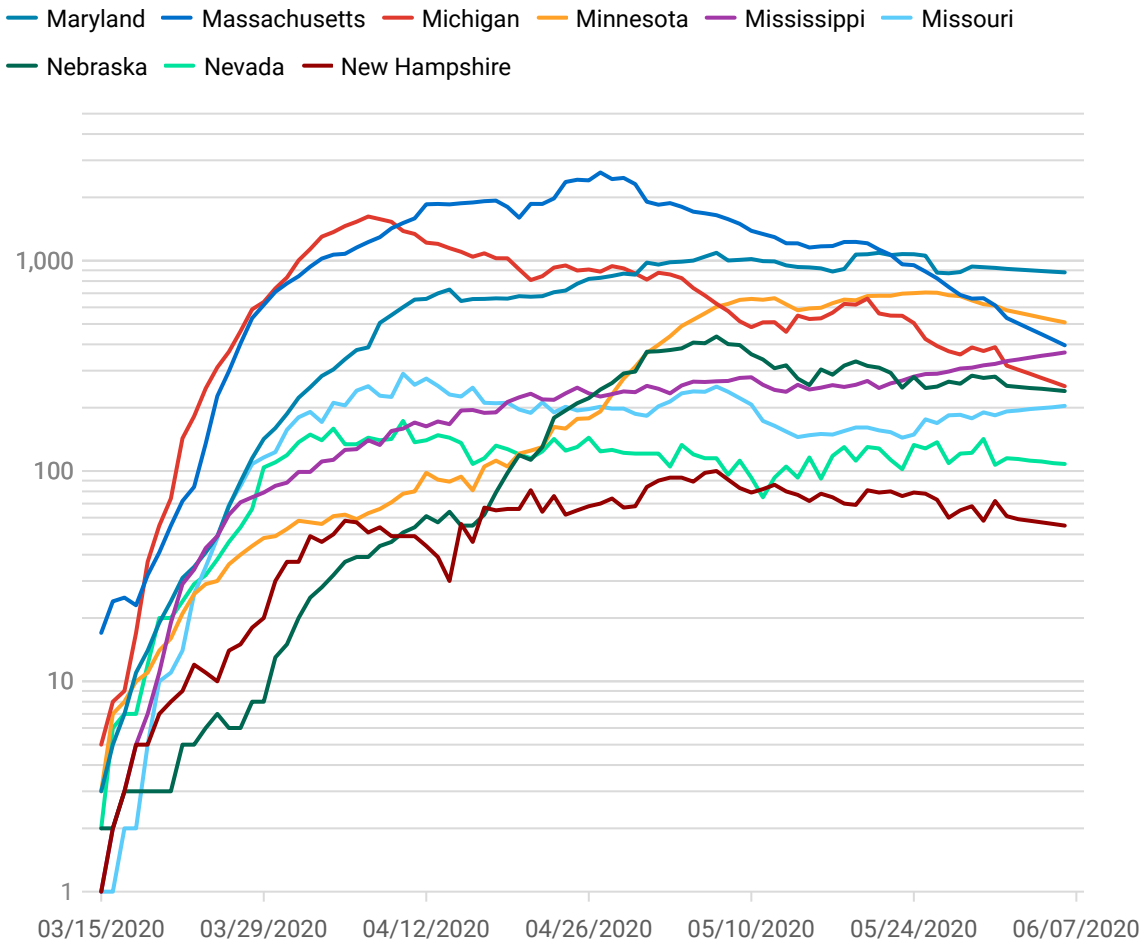
Actual and projected daily COVID-19 cases by state (MD-NH)



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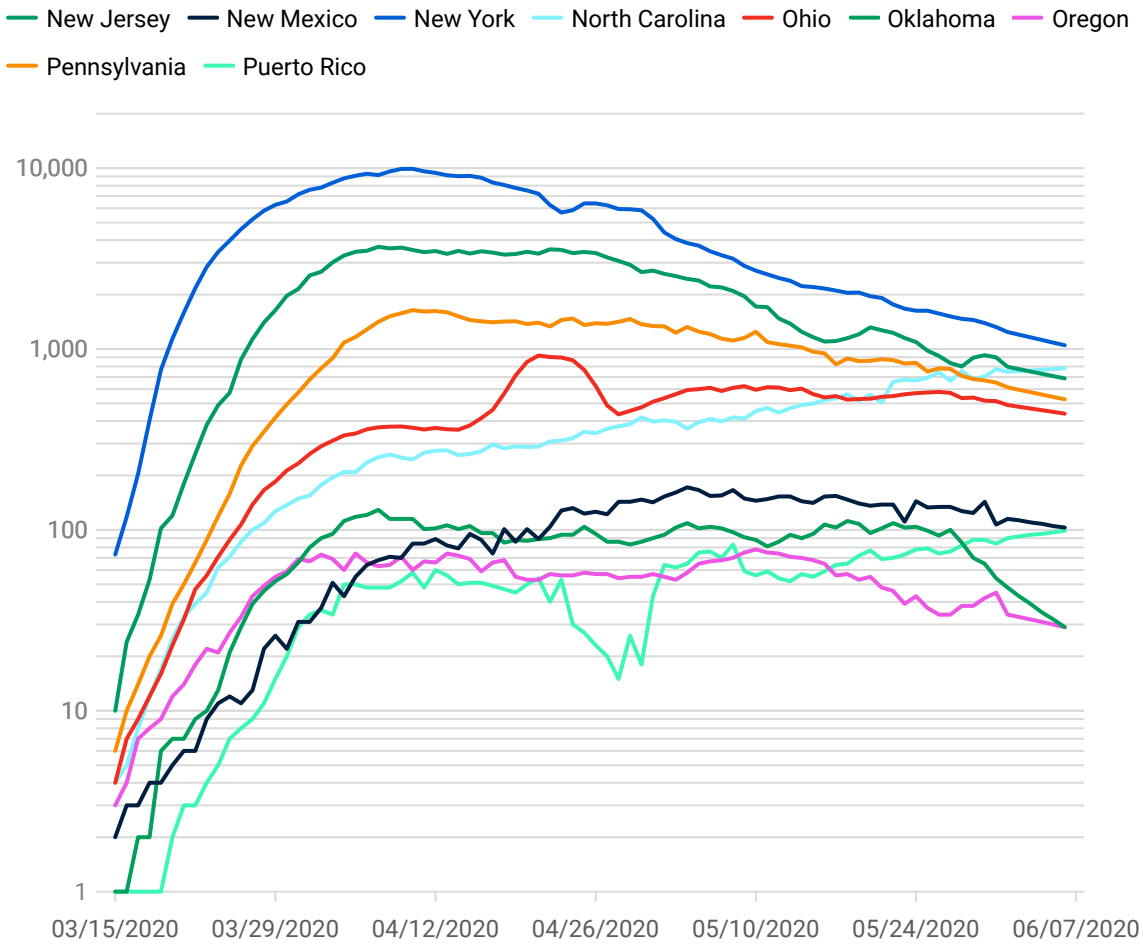
Actual and projected daily COVID-19 cases by state (NM-PR)



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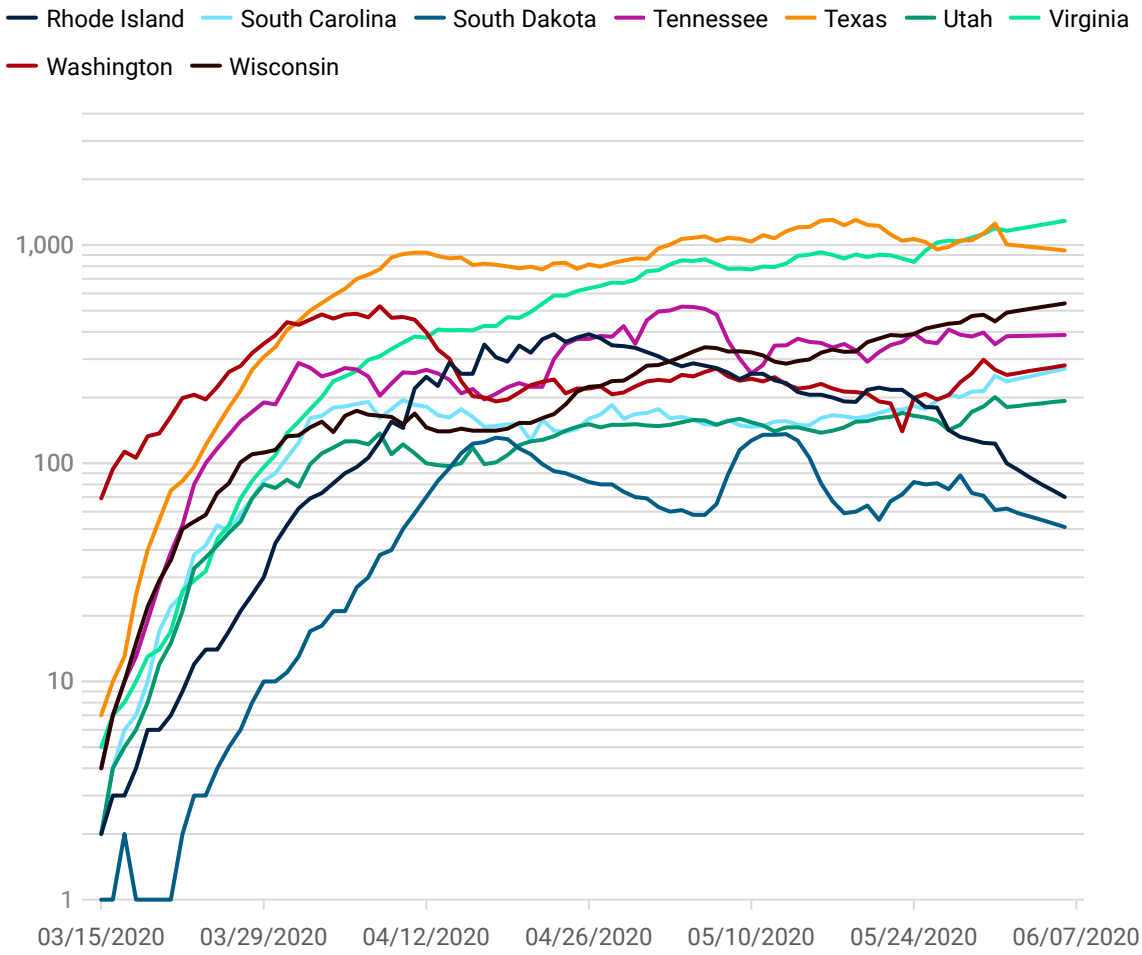
Actual and projected daily COVID-19 cases by state (RI-WI)



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