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

April 24, 2020 with Johns Hopkins Data from 4/23/2020.

- **Total deaths predicted by 6/21/2020: 154,033** (yesterday: 146,700)
- **Excluding New York & New Jersey: 112,680** (yesterday: 104,329)
- **Predicted daily death on 6/21/2020: 1,681** (~ 100,000 per 2 months)

Summary

Today's model runs shows about 7,000 more deaths within the next two months than yesterday's run. Projected numbers for the two states with the highest number of cases, NY and NJ, actually went down, but numbers for several of the other states went up. The biggest changes:
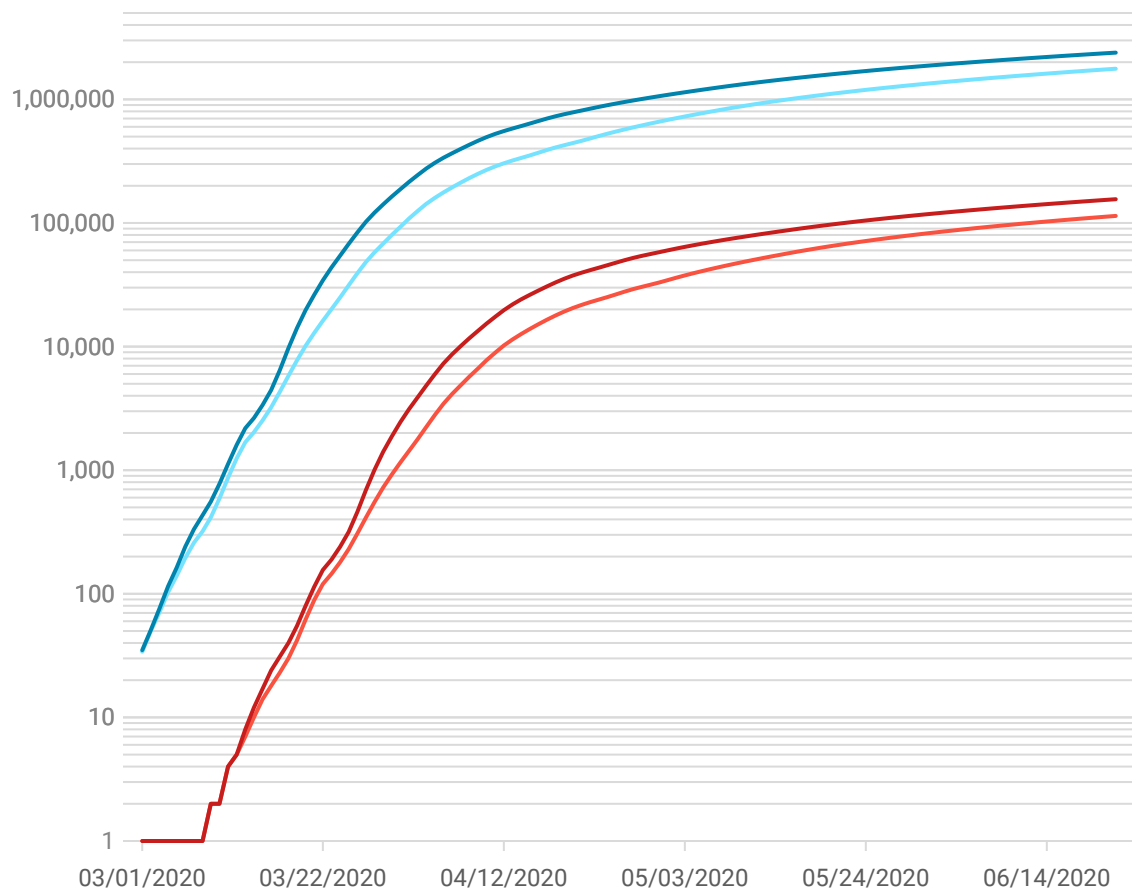
- California shows a stronger upward trend, with almost 2,000 new cases two days in a row *(this affects predictions more than a single day since we use 7-day trend lines)*
- Illinois and Kansas show slightly stronger upward trends
- Massachusetts shows a stable trend today, after a downward trend yesterday.
- The downward trend for NY is stronger today. NY now shows the most rapid drop in new cases, which would be expected in view of its strict stay-at-home order
- Ohio looks more reasonable (stable) today than yesterday
- Virginia shows a marginally stronger upward trend.
- The curve for Texas shows a slightly reduced downward trend, but has strong fluctuations during each week; a flat trend seems more realistic.

An increase in projected numbers was expected since yesterday's totals went up to 31,900 cases (according to Worldometers), which was the second-highest number since April 10, and very close to the 32,368 cases reported for April 17. The observed overall trend for the US is a very slow decline of less than 10% per week.

Total projected COVID-19 cases and deaths

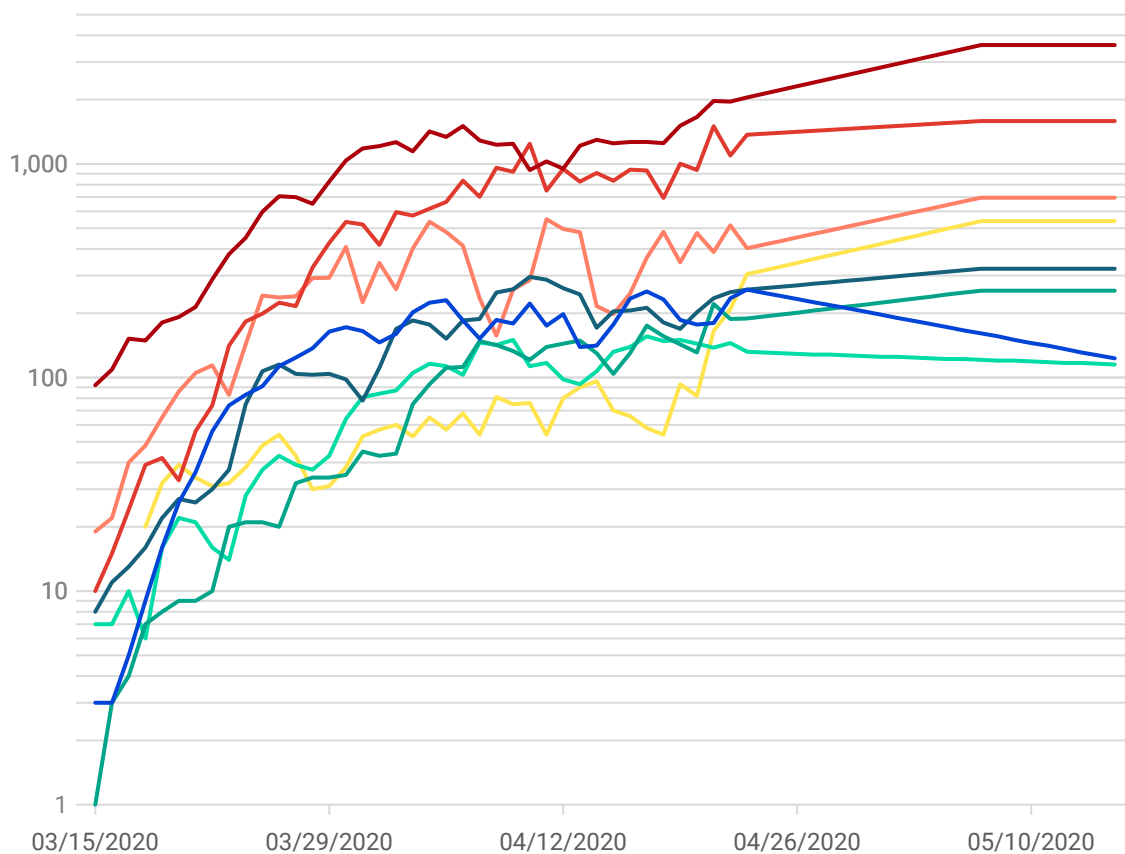Future growth in cases per day limited to 14 days

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

Get the data • Created with Datawrapper

Actual and projected daily COVID-19 cases by state (AL-DC)

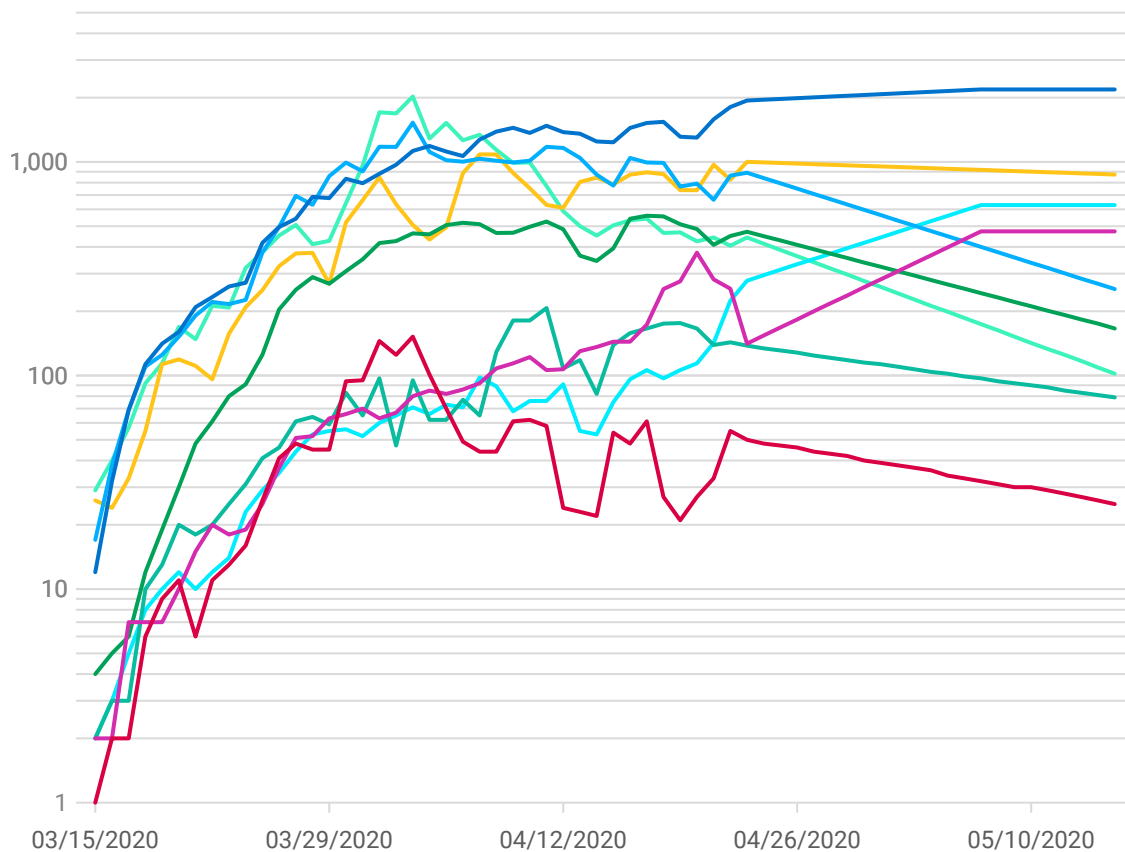— Alabama — Arizona — Arkansas — California — Colorado — Connecticut — Delaware
— District of Columbia

Get the data • Created with Datawrapper

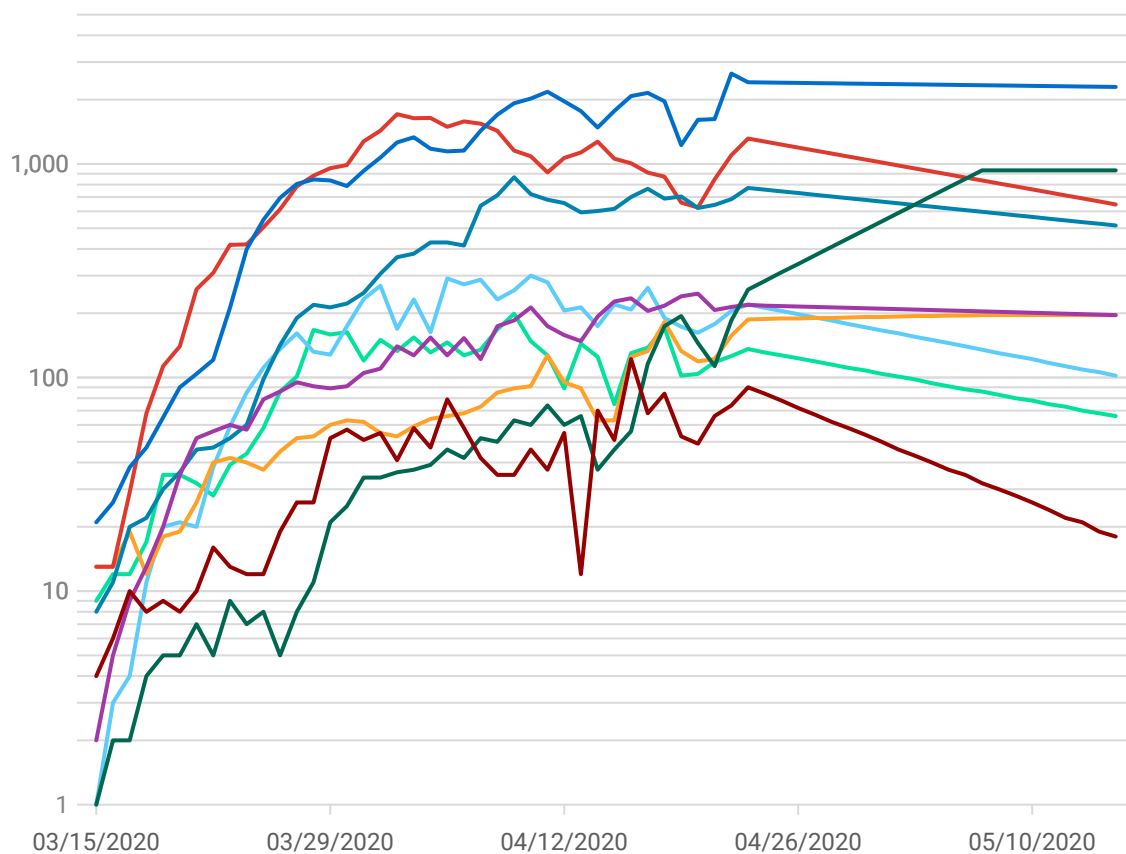## Actual and projected daily COVID-19 cases by state (FL-LA)

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

— Louisiana

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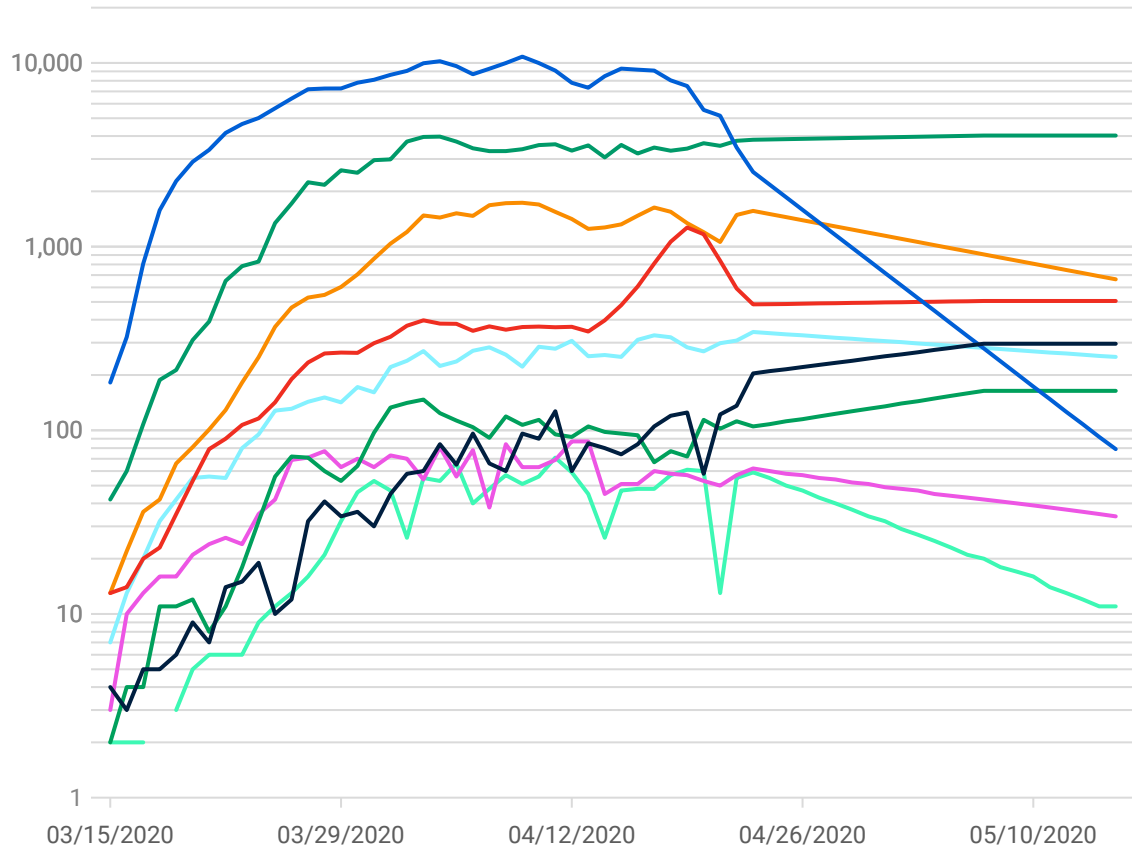## Actual and projected daily COVID-19 cases by state (MD-NH)

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

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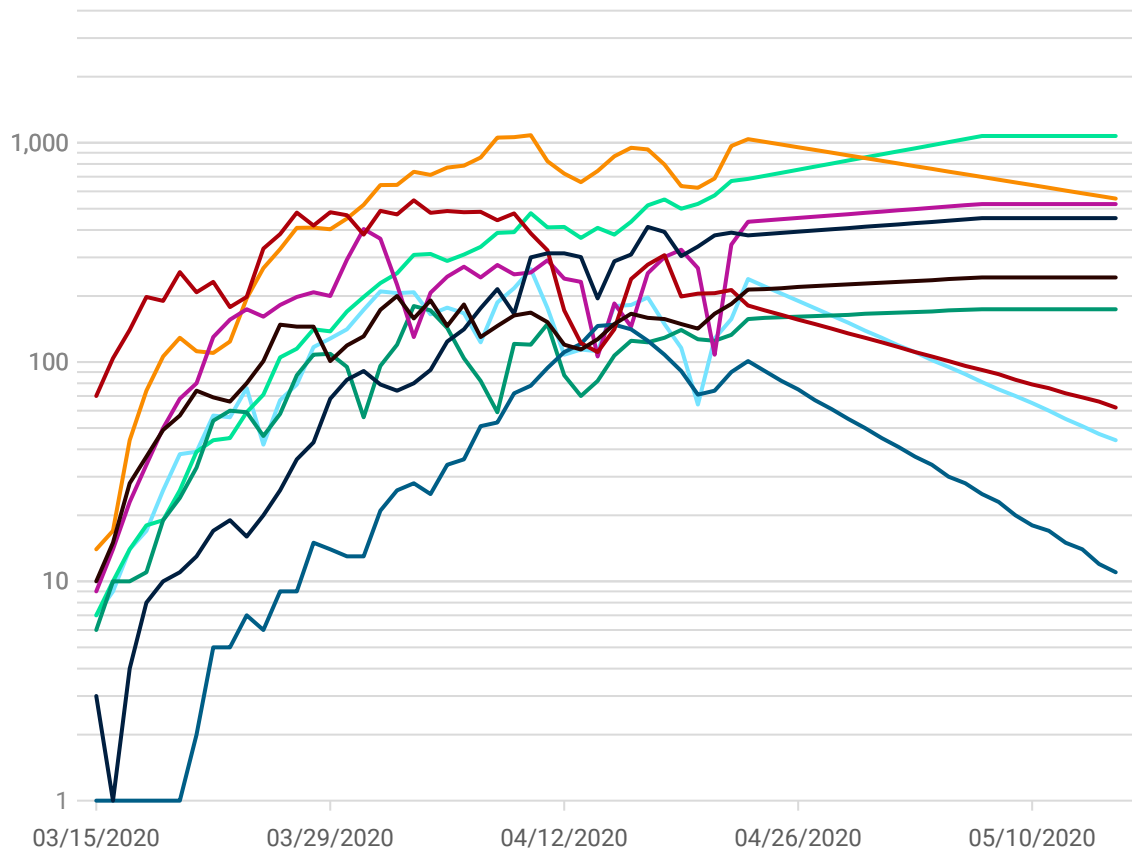## Actual and projected daily COVID-19 cases by state (NM-PR)

— New Jersey   — New Mexico   — New York   — North Carolina   — Ohio   — Oklahoma   — Oregon

— Pennsylvania   — Puerto Rico

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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

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