

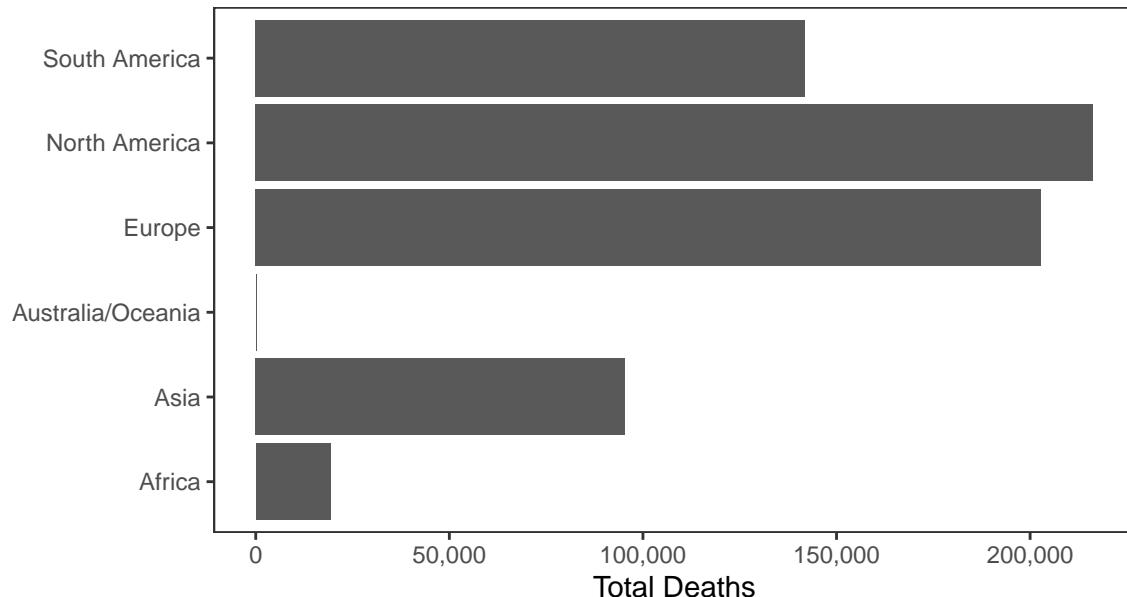
# Erik's Covid-19 Chart Pack

Data updated 2020-07-31 18:41:55. World data are from Worldometers. National and state-level mortality, case, and testing data are from Johns-Hopkins University. County and city-level mortality and case data are from the New York Times. Most data presented in this report were accessed through APIs provided by The COVID Tracking Project and NovelCOVID API.

## World Data

There have been 17,463,497 confirmed Covid-19 cases and 675,963 deaths worldwide.

**Deaths**



**Cases**

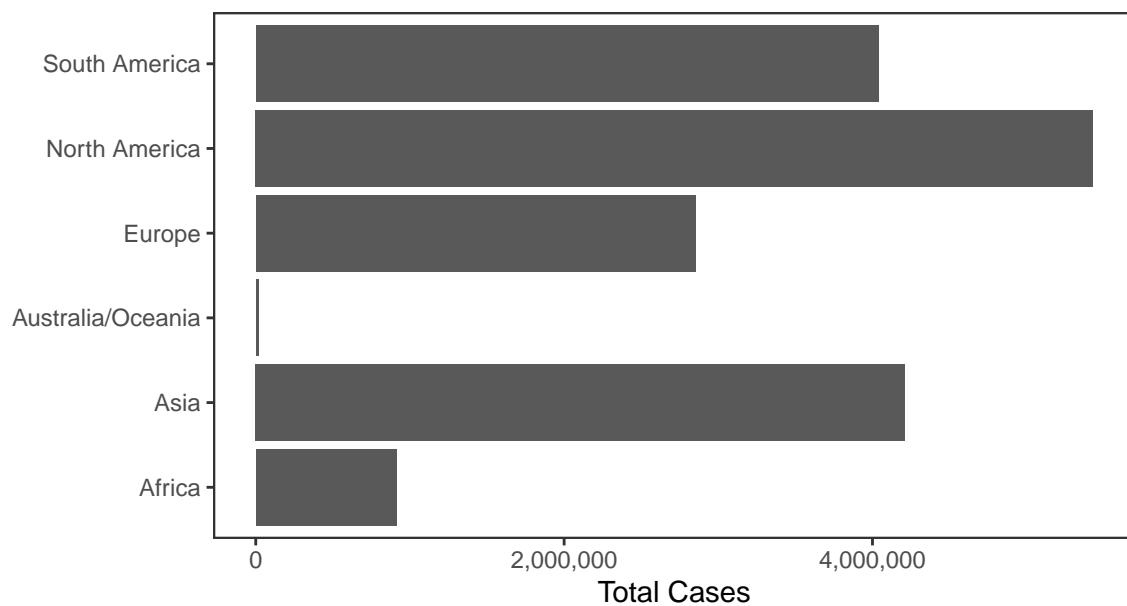
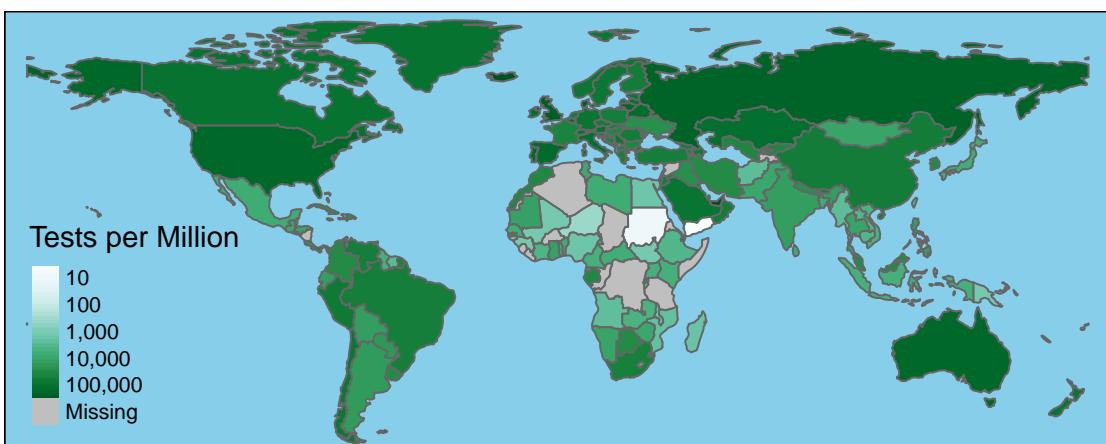
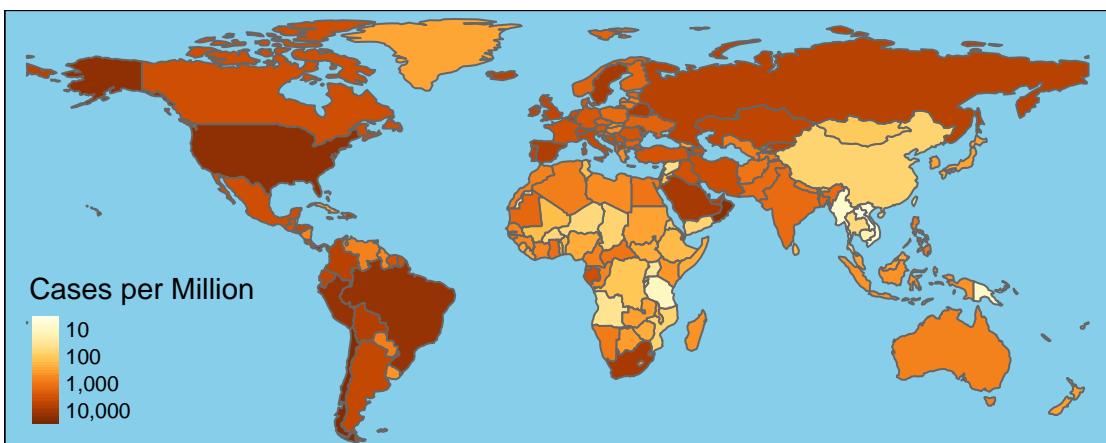
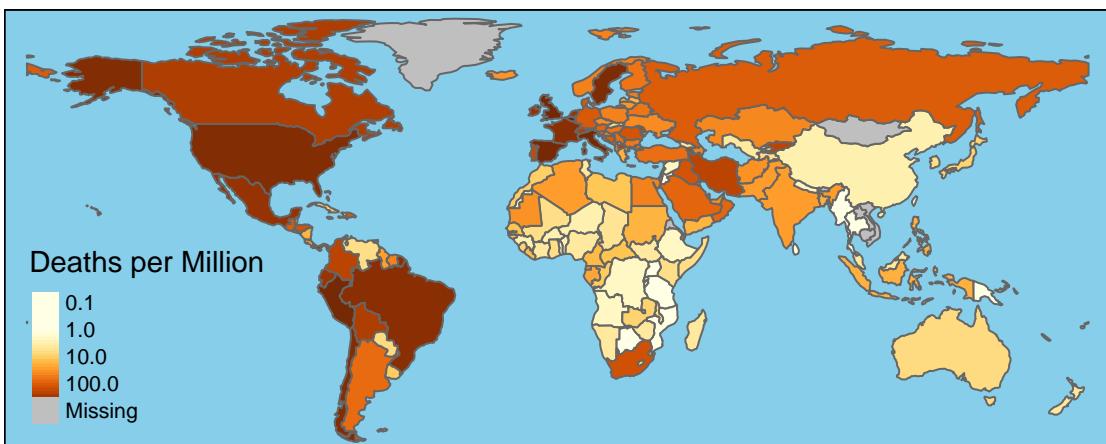


Table 1: Top Countries by Total Cases

Country	Cases	Deaths	New Cases	New Deaths
USA	4,634,985	155,285	68,569	1,465
Brazil	2,613,789	91,377	58,271	1,189
India	1,639,350	35,786	54,966	783
Russia	834,499	13,802	5,509	129
South Africa	482,169	7,812	11,046	315
Mexico	408,449	45,361	5,752	485
Peru	407,492	19,021	6,809	205
Chile	353,536	9,377	1,961	99
Spain	332,510	28,443	2,789	2
UK	302,301	45,999	846	38
Iran	301,530	16,569	2,621	226
Colombia	286,020	9,810	9,965	356
Pakistan	277,402	5,924	1,114	32
Saudi Arabia	274,219	2,842	1,629	26
Italy	247,158	35,132	382	3
Bangladesh	234,889	3,083	2,695	48
Turkey	229,891	5,674	967	15
Germany	209,653	9,221	842	9
France	186,573	30,254	1,377	16
Argentina	185,373	3,441	6,377	153



## National Data

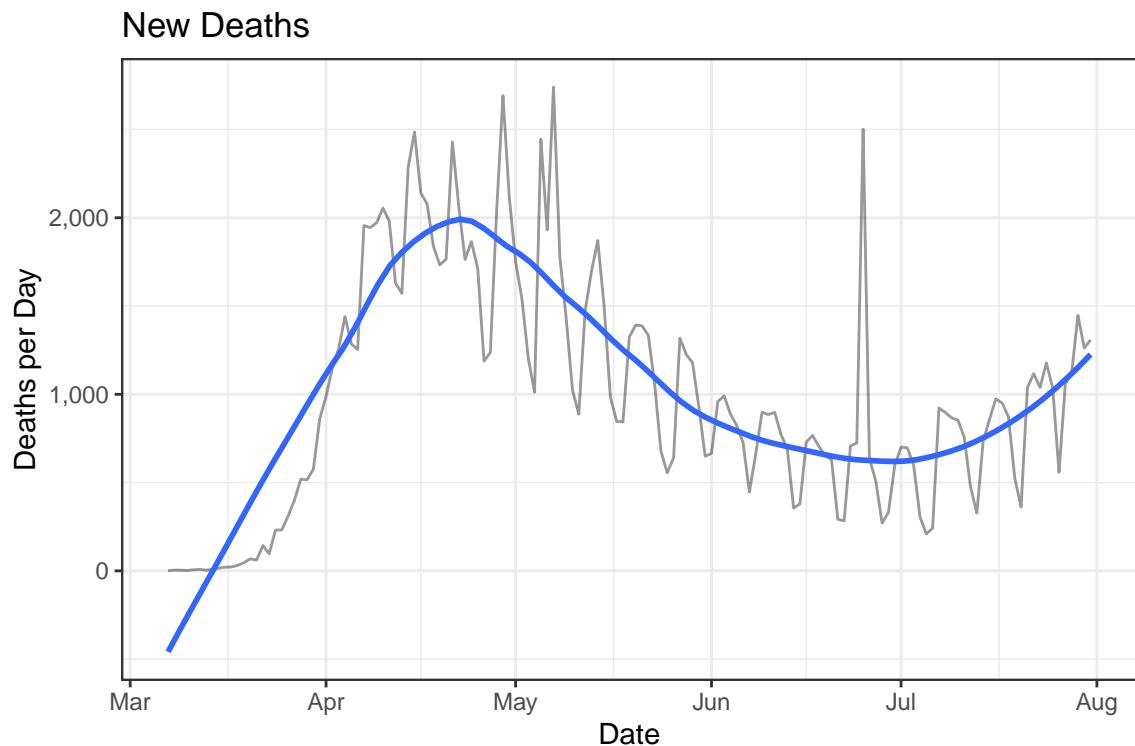
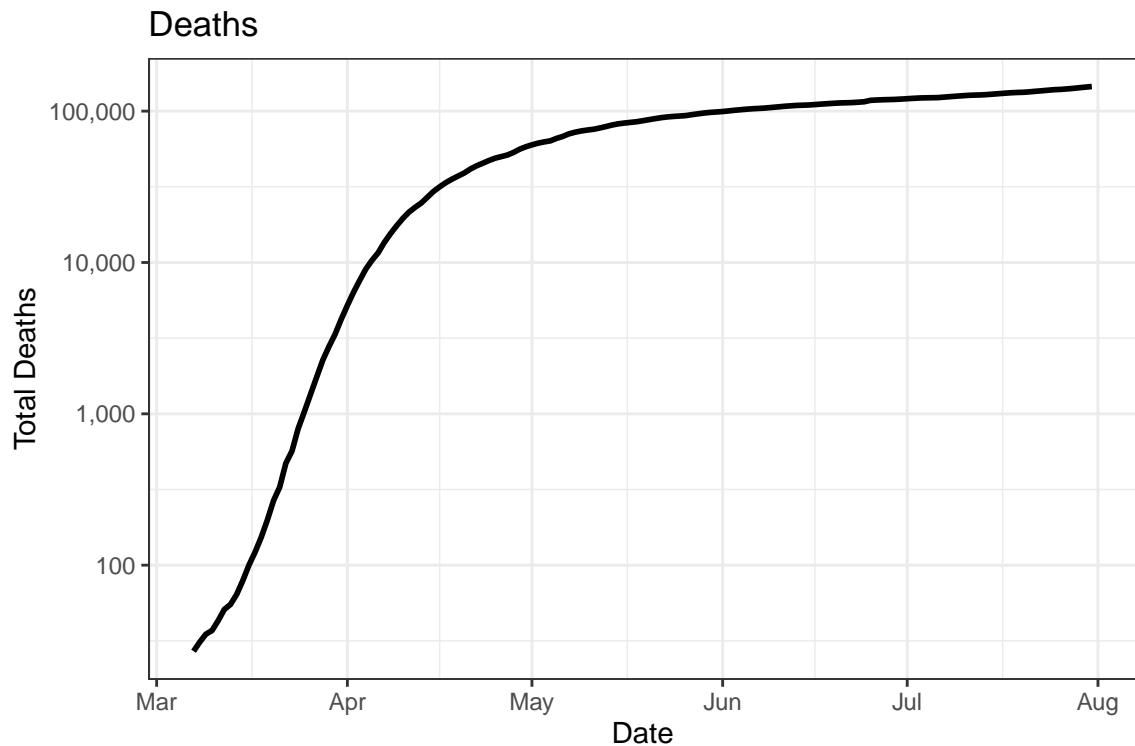
There have been 4,535,607 confirmed Covid-19 cases and 145,447 deaths in the United States.

Table 2: U.S. Deaths and Cases over the Last Two Weeks

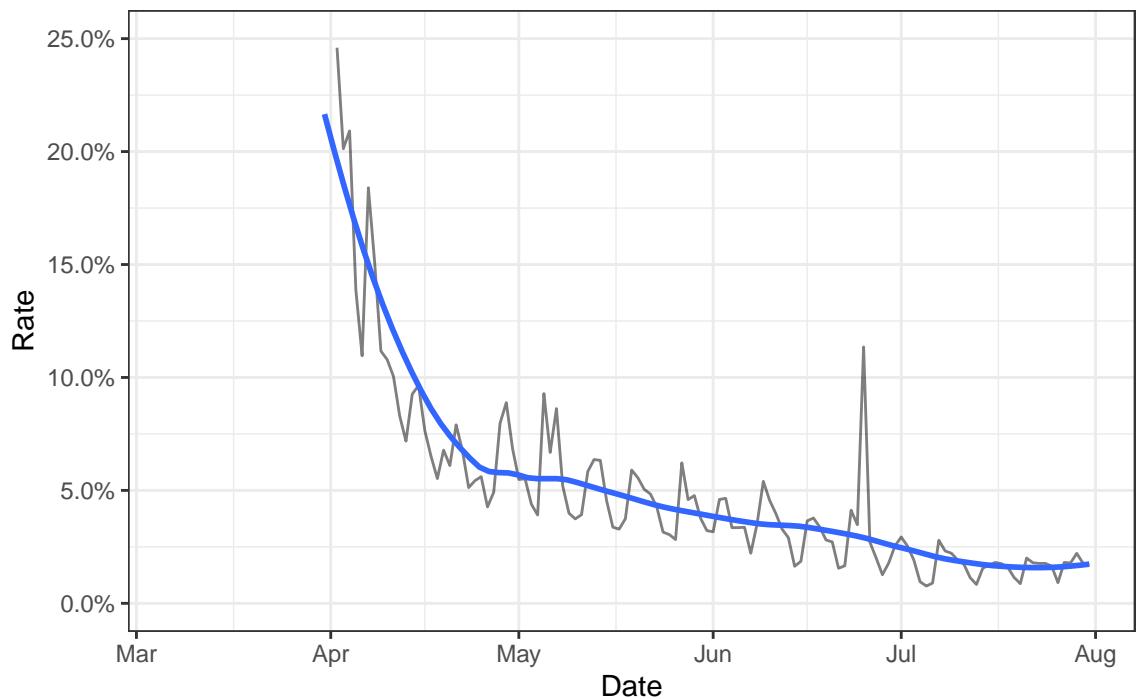
Date	Cases	Deaths	New Cases	New Deaths
2020-07-31	4,535,607	145,447	67,503	1,308
2020-07-30	4,468,104	144,139	69,718	1,262
2020-07-29	4,398,386	142,877	66,969	1,447
2020-07-28	4,331,417	141,430	56,229	1,121
2020-07-27	4,275,188	140,309	55,134	1,059
2020-07-26	4,220,054	139,250	61,713	558
2020-07-25	4,158,341	138,692	65,413	1,037
2020-07-24	4,092,928	137,655	75,193	1,178
2020-07-23	4,017,735	136,477	71,027	1,039
2020-07-22	3,946,708	135,438	69,150	1,117
2020-07-21	3,877,558	134,321	63,642	1,038
2020-07-20	3,813,916	133,283	56,971	362
2020-07-19	3,756,945	132,921	64,884	526
2020-07-18	3,692,061	132,395	65,180	872

## Deaths

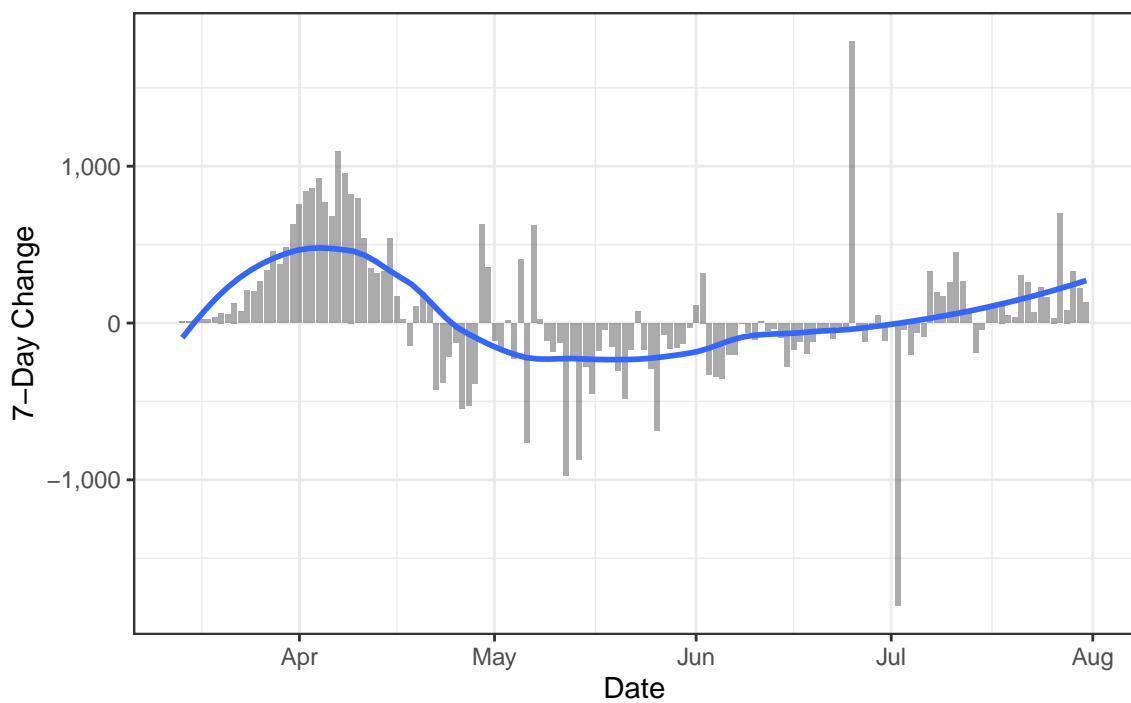
Because the effects of the virus can take several weeks to manifest in patients, deaths are a lagging indicator of contagion, but they may be a more reliable than case counts, which are a function of both the prevalence of the disease and the rate of testing. The case mortality rate is a very crude indicator of lethality because a large numbers of non-lethal cases are likely never detected. A declining case mortality rate is indicative of more widespread testing.

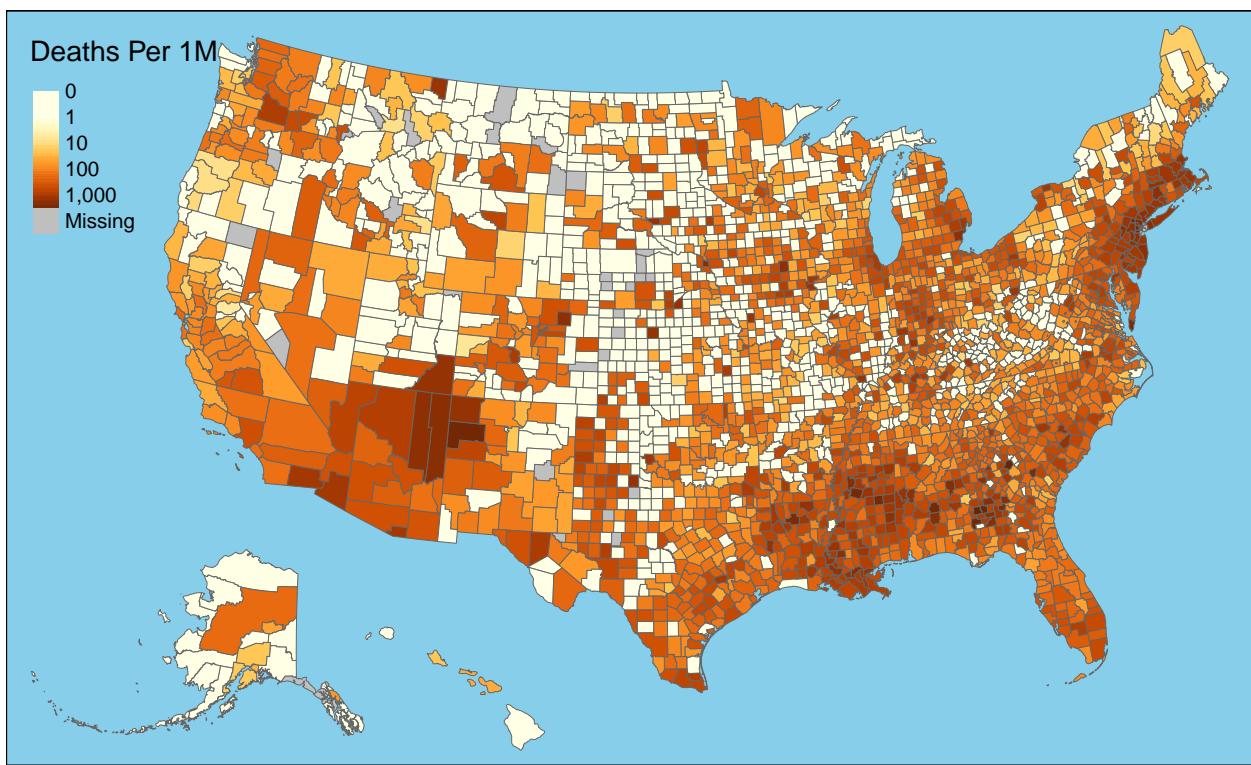


Daily Case Mortality Rate



One-Week Change in Daily Deaths

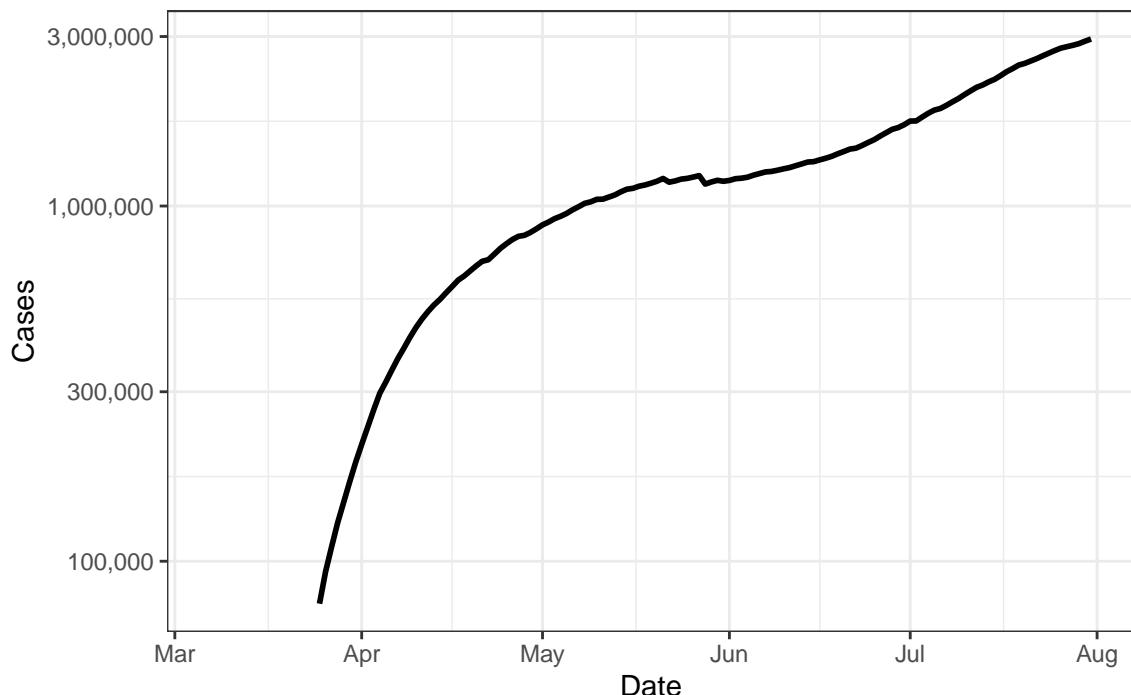




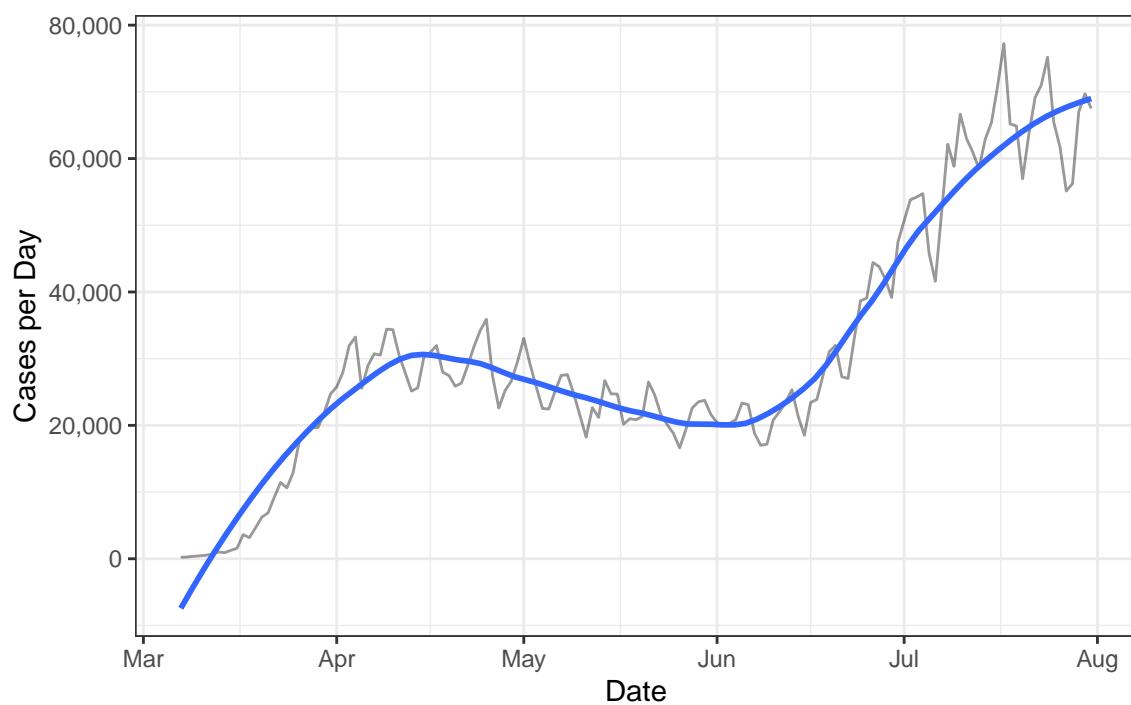
## Cases

Reported cases are a function of both the spread of the disease and the prevalence of testing.

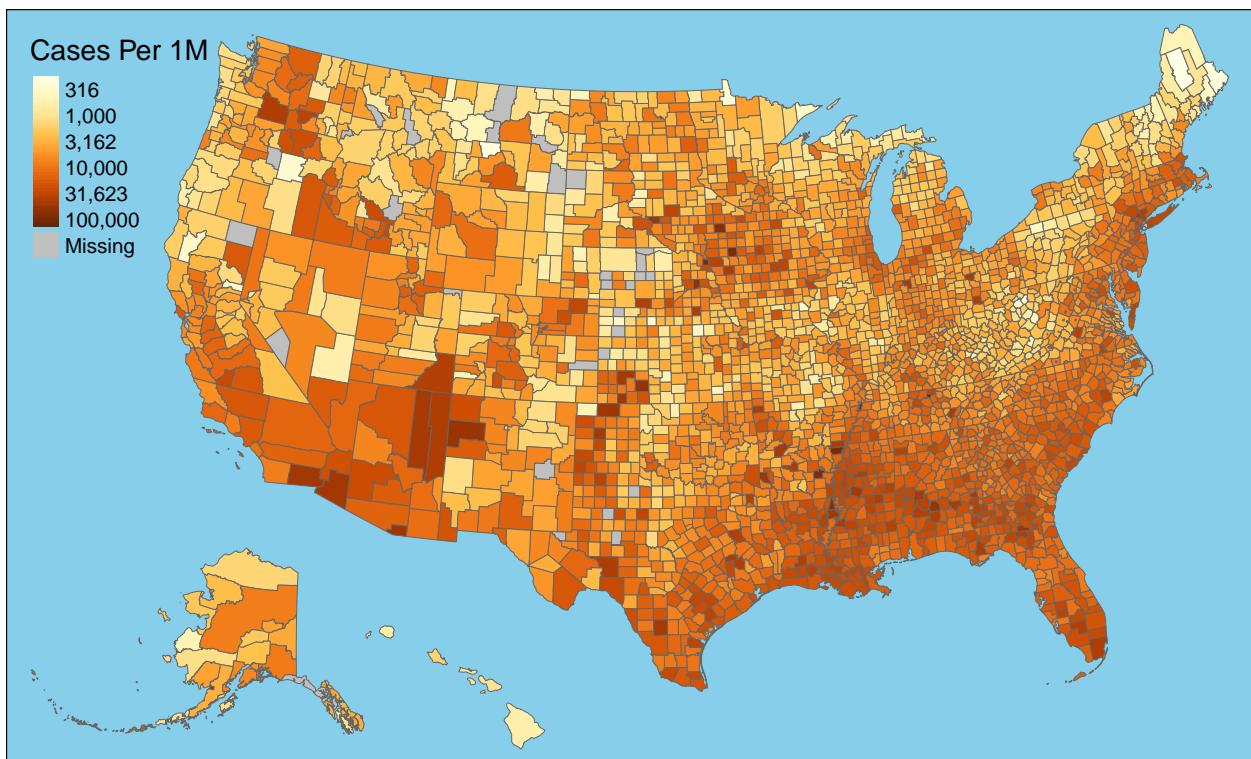
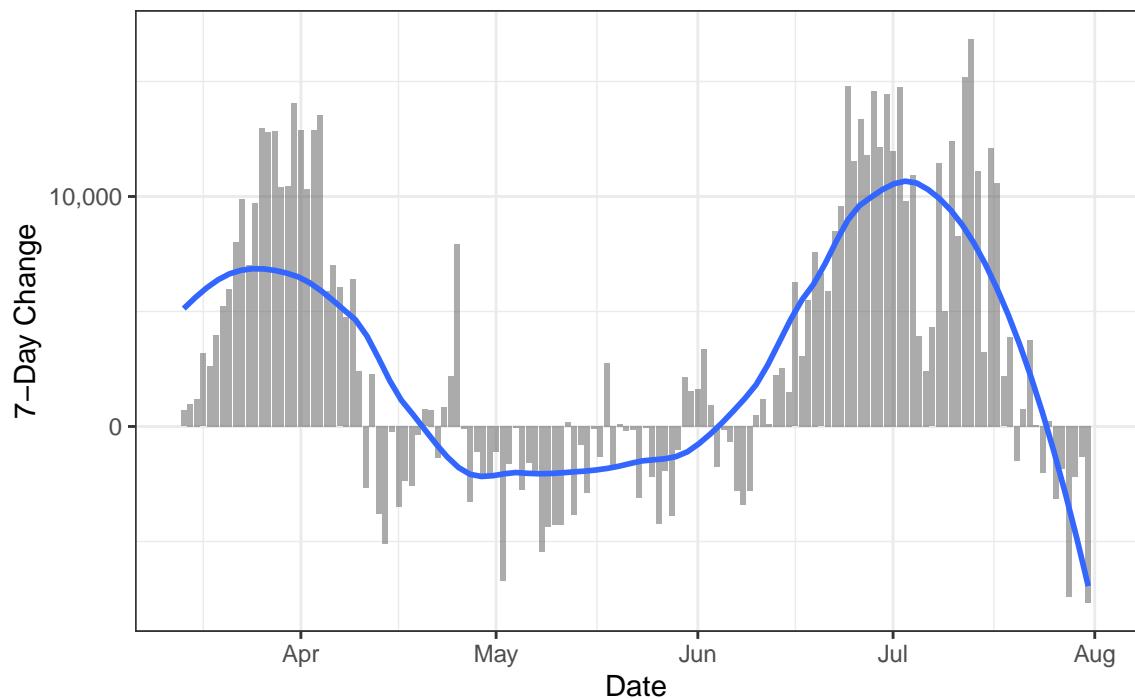
### Active Cases



### New Cases



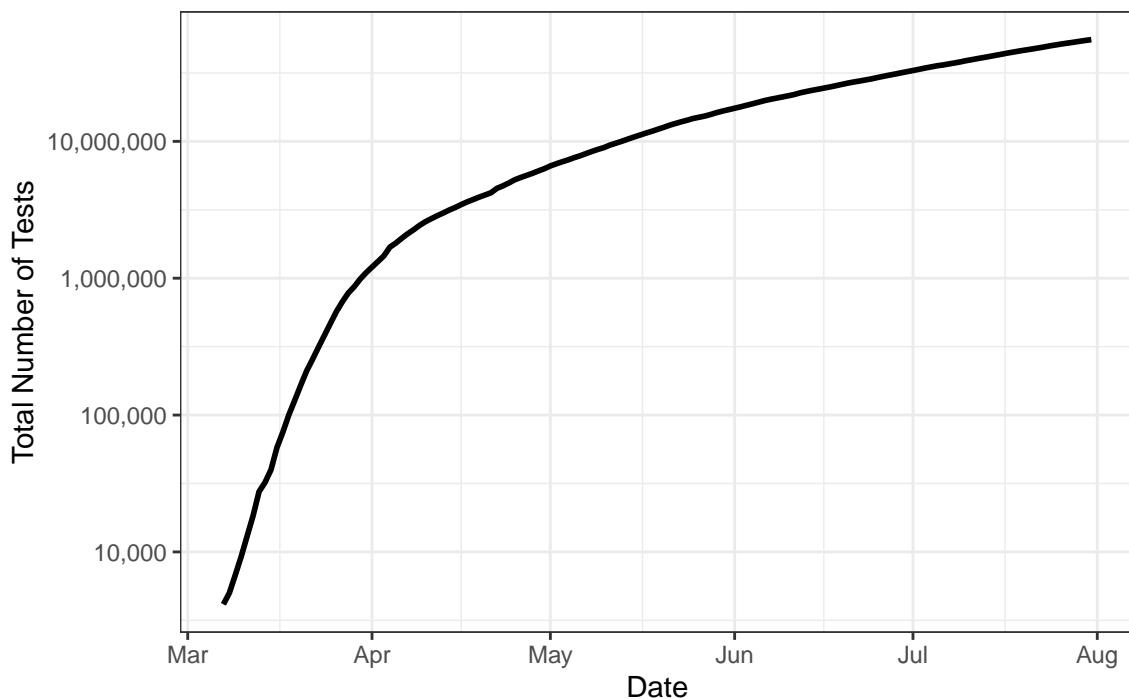
## One-Week Change in Daily Cases



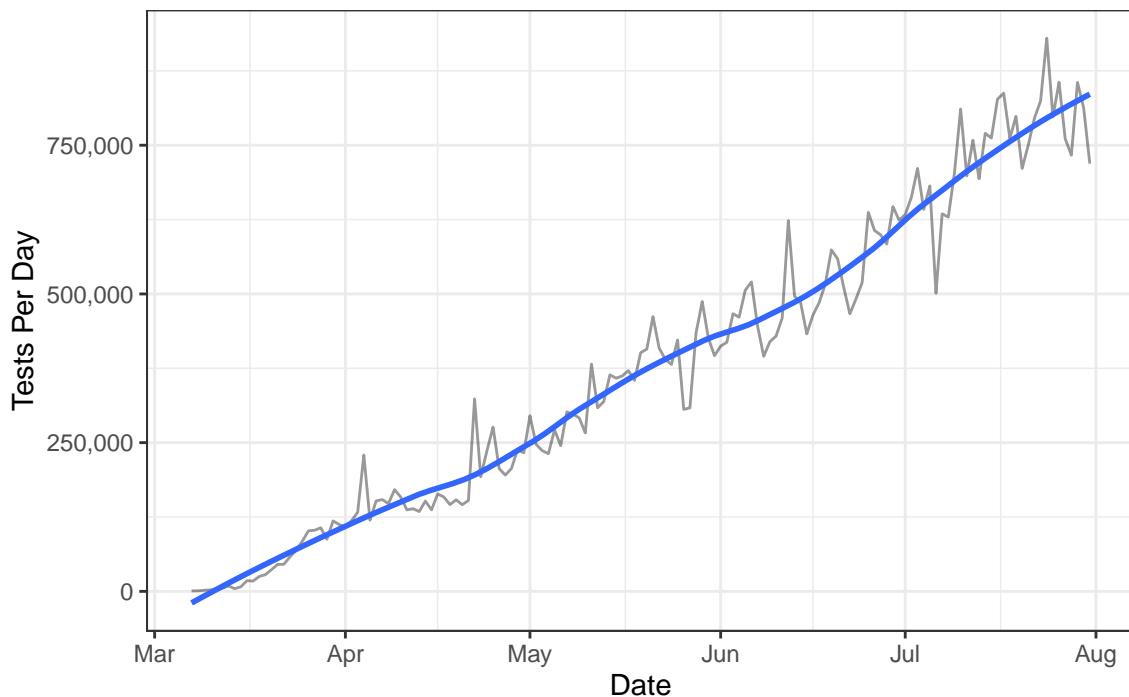
## Testing

Widespread testing is necessary for managing the spread of the disease. The following charts show how testing in the United States has changed over time. When the supply of available tests is limited, they are typically only used for patients whose symptoms suggest they are likely to have contracted the virus. A high positive test rate indicates that testing capacity is constrained.

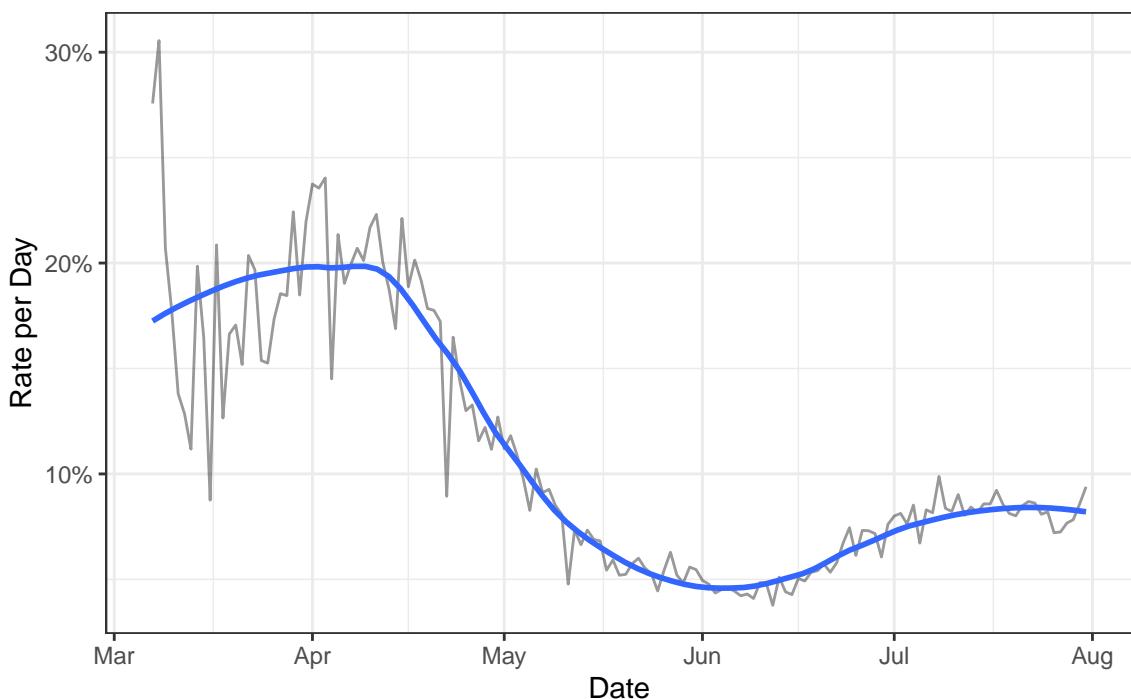
Tests



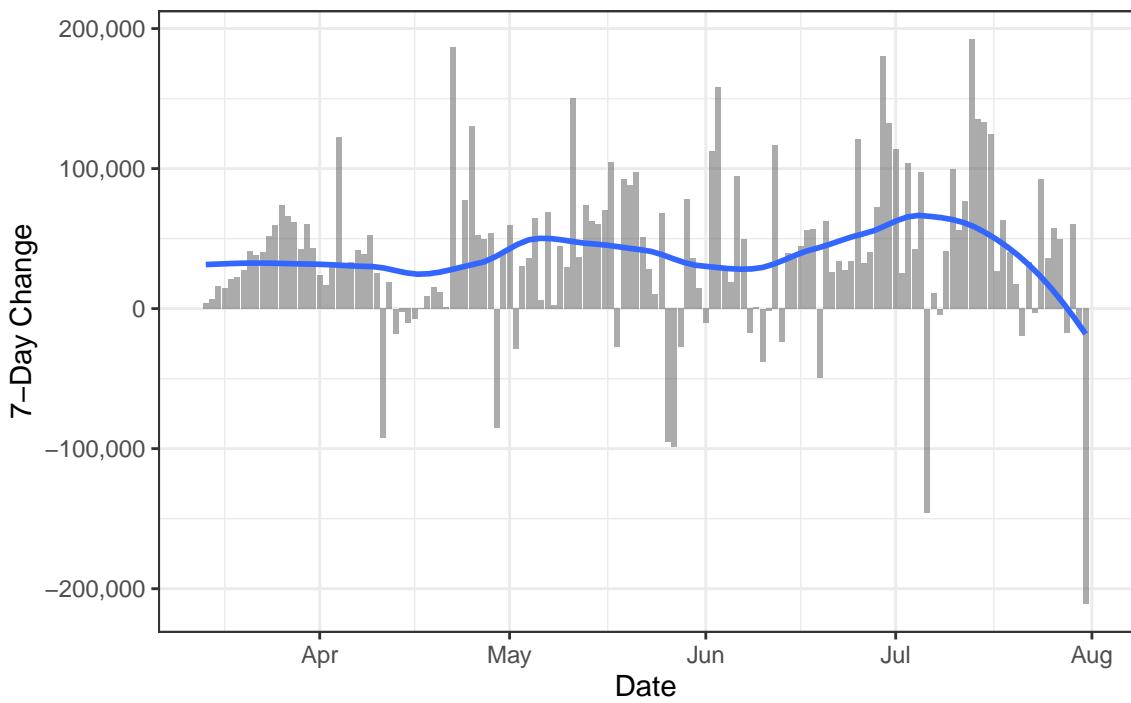
New Tests



### Positive Test Rate



### One-Week Change in Daily Tests

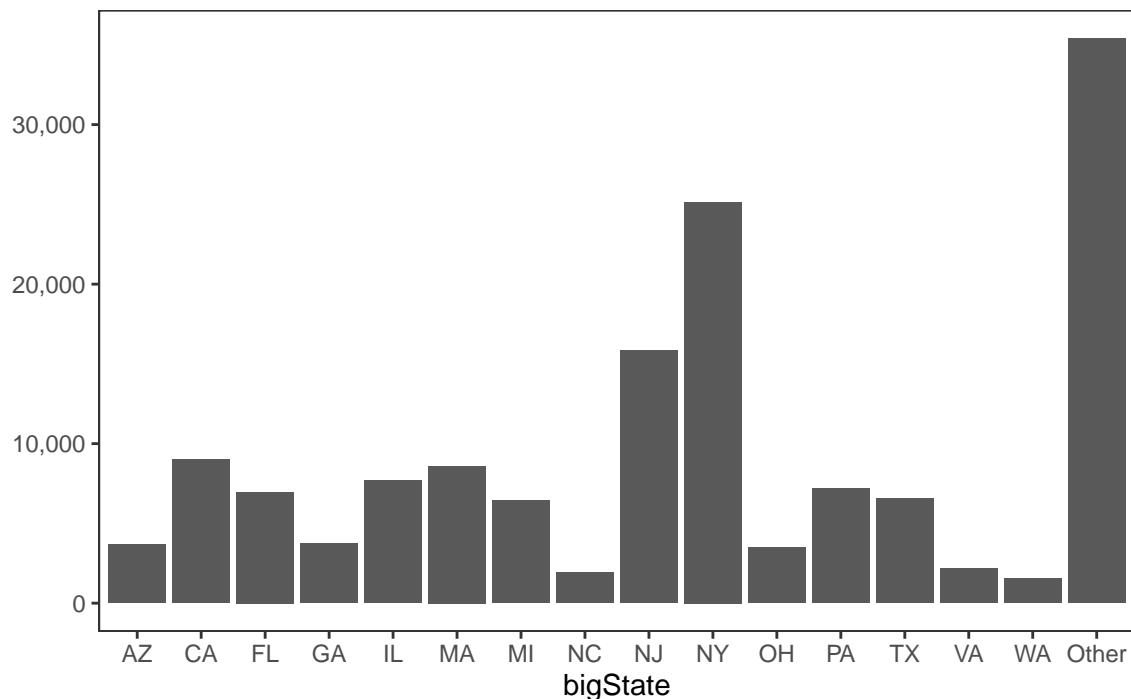


## State Data

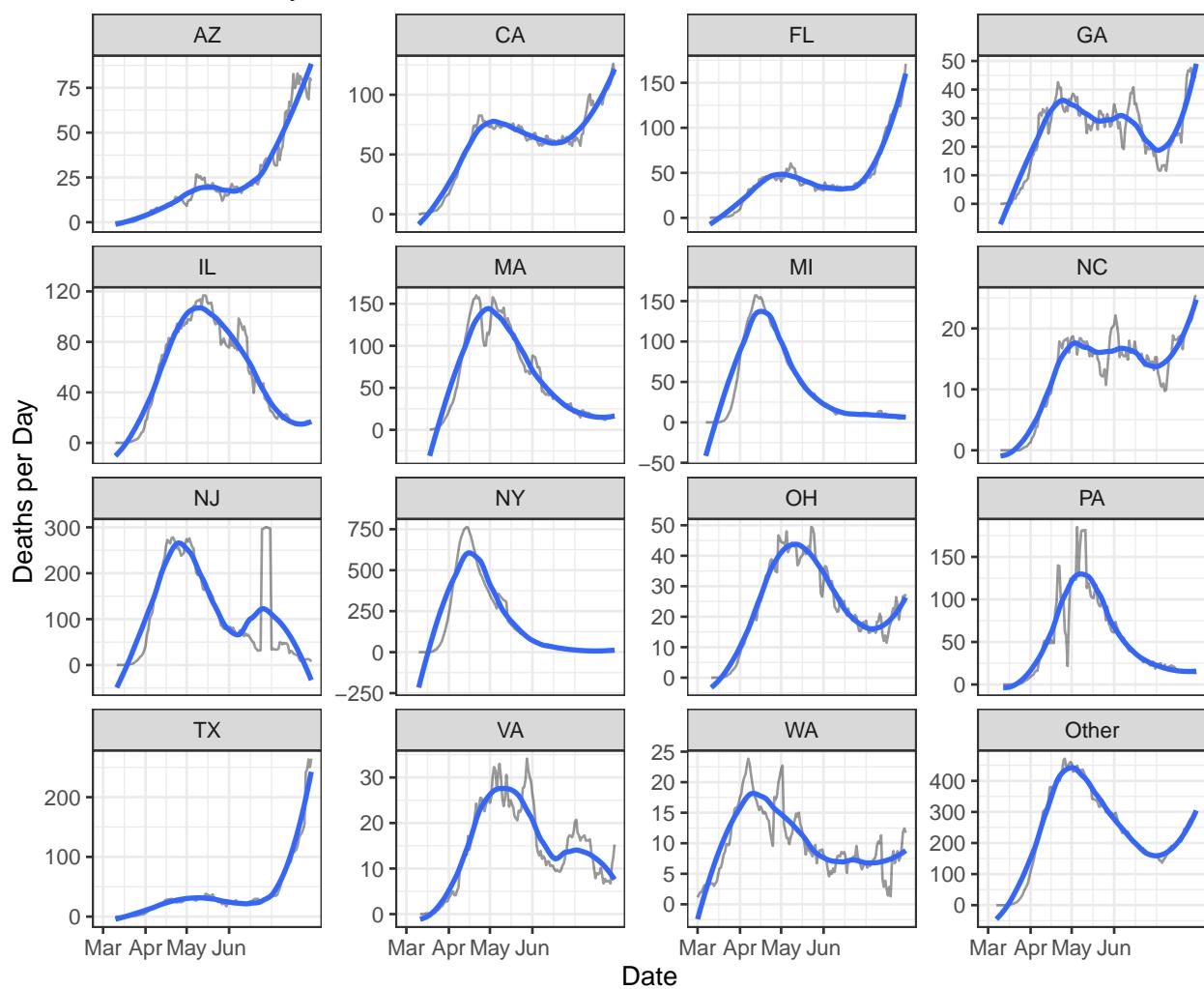
This section summarizes state-level data. Most data are reported for the largest 15 states by population, which account for NaN percent of the total U.S. population.

### Deaths

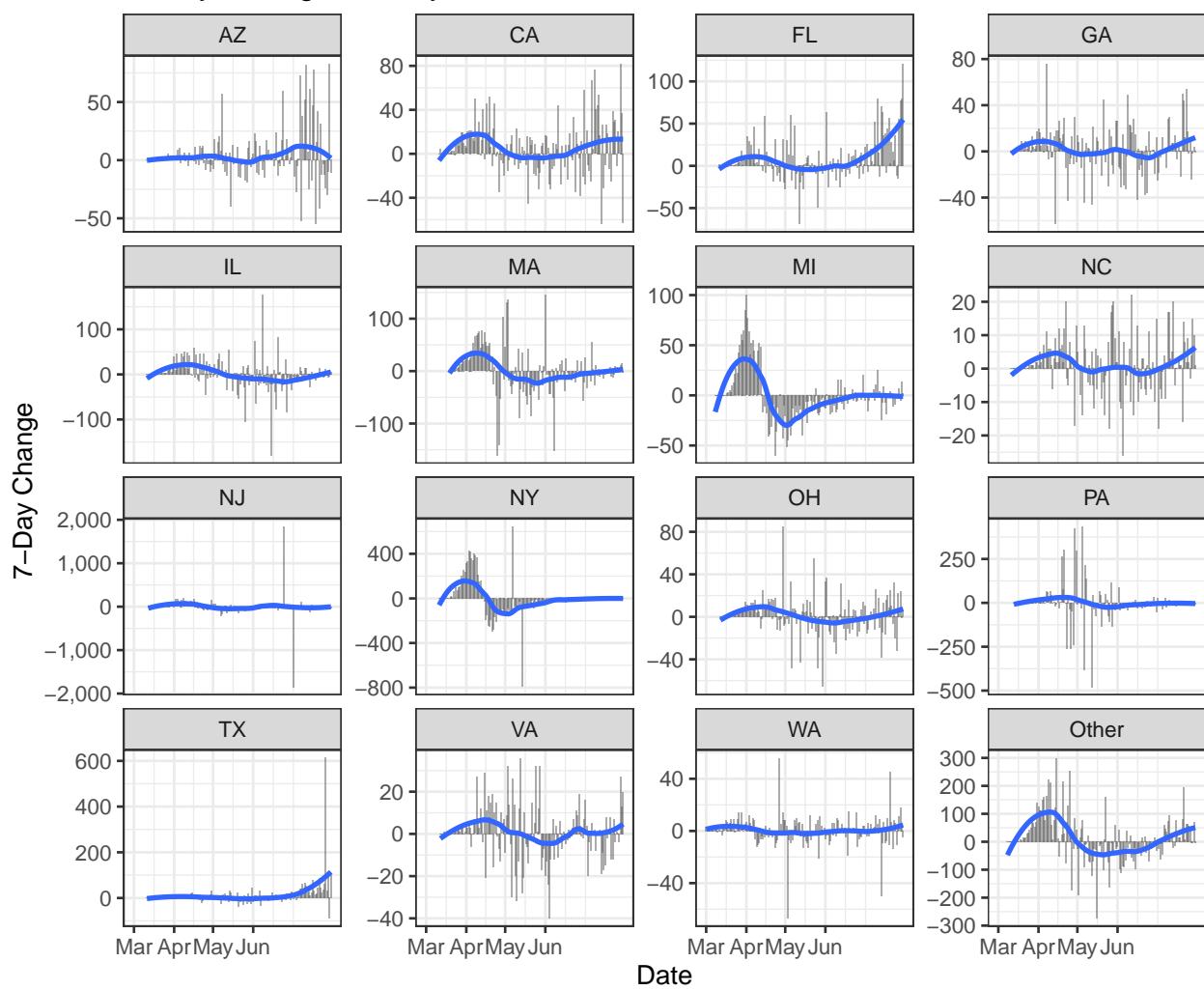
Deaths by State

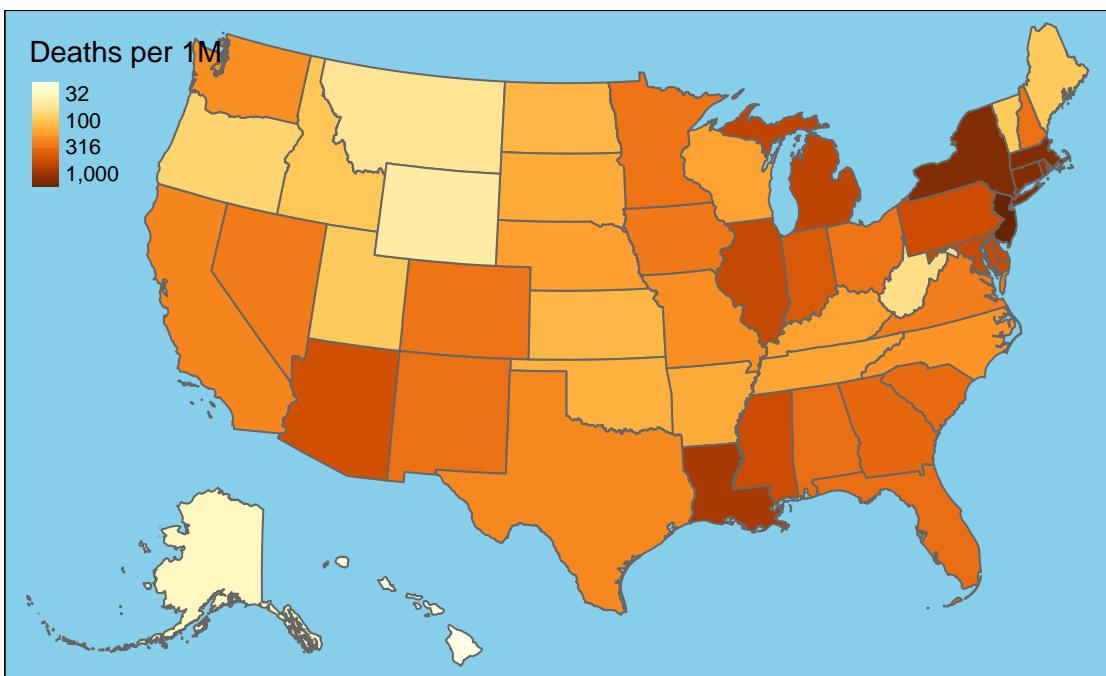
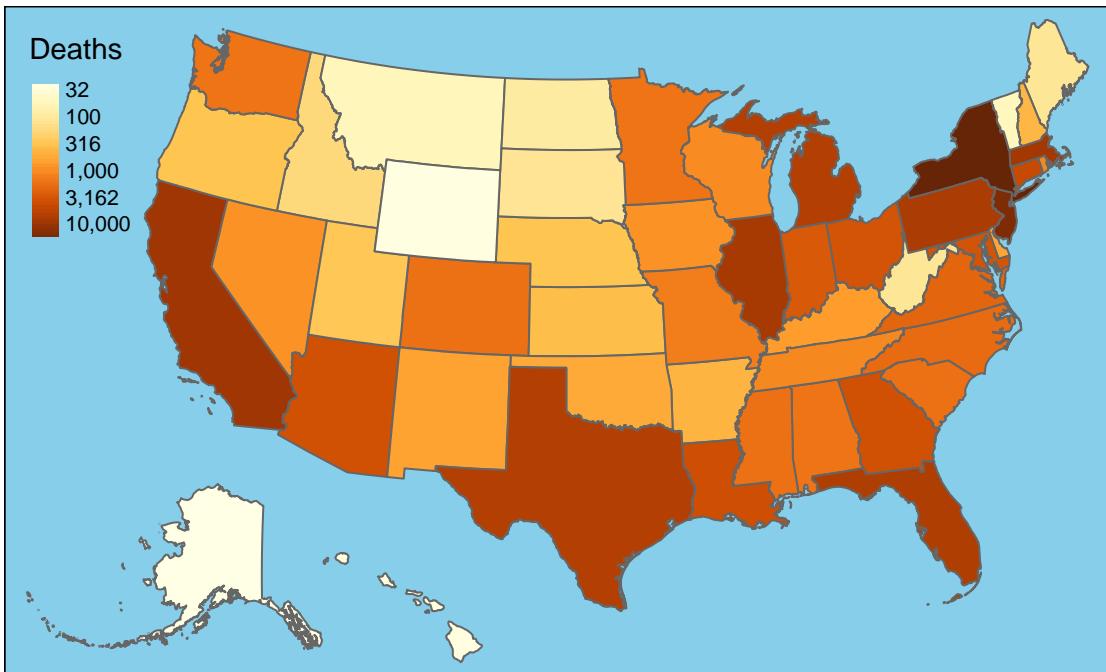


## New Deaths by State



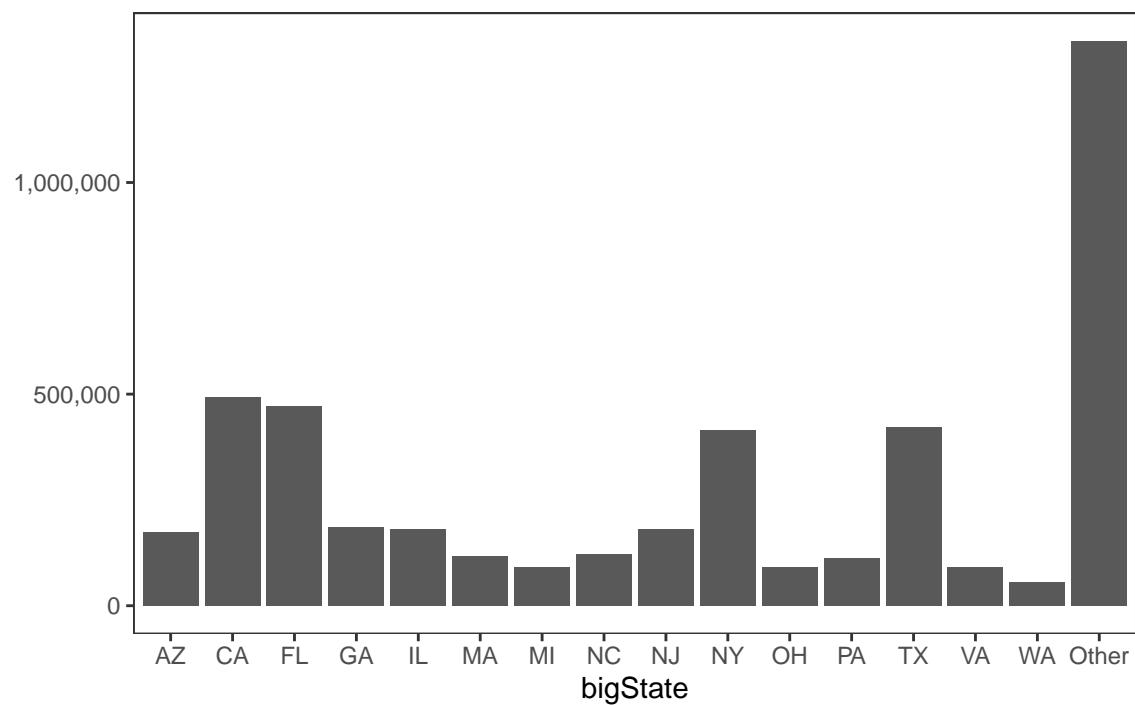
### 7-Day Change in Daily Deaths



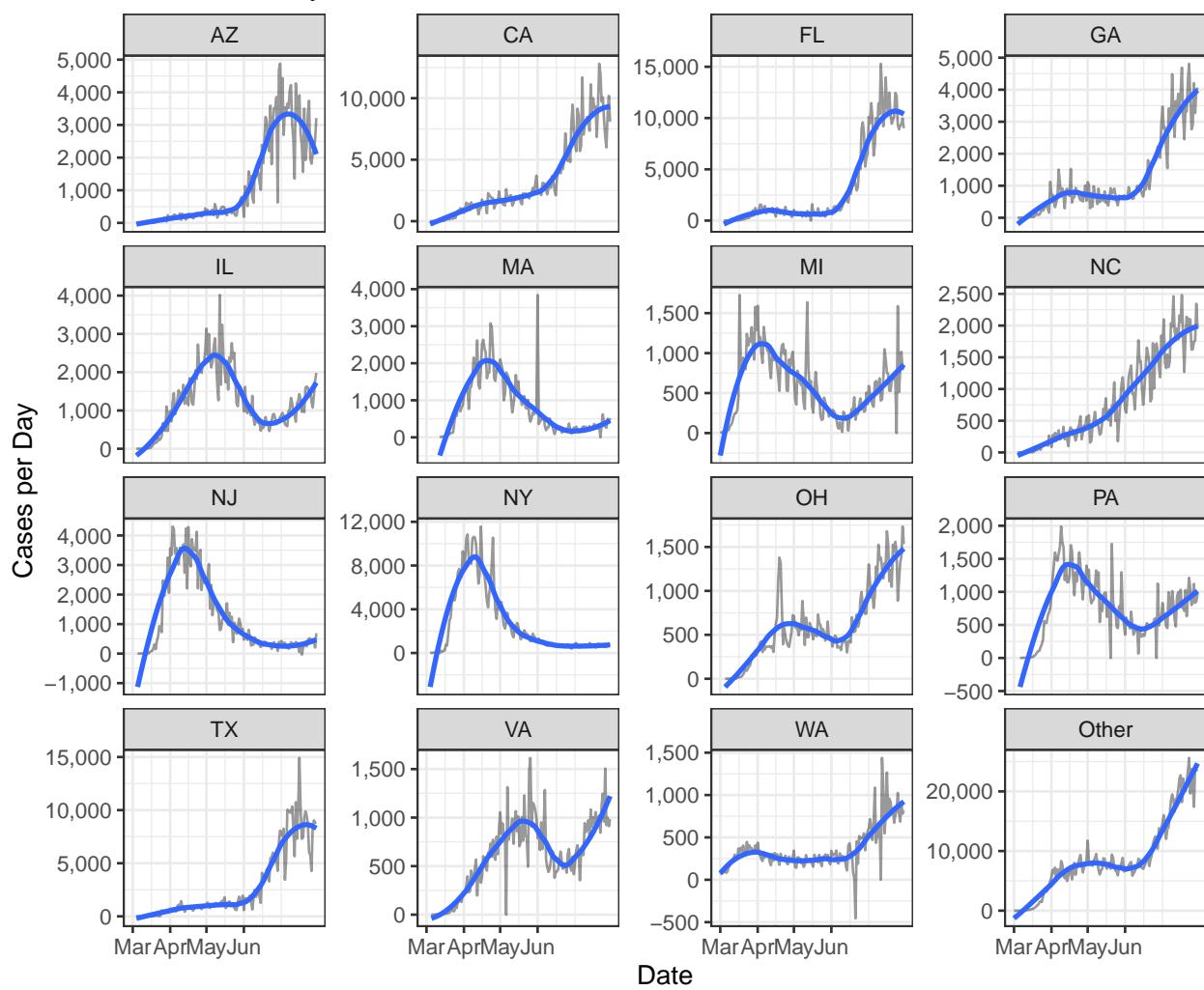


Cases

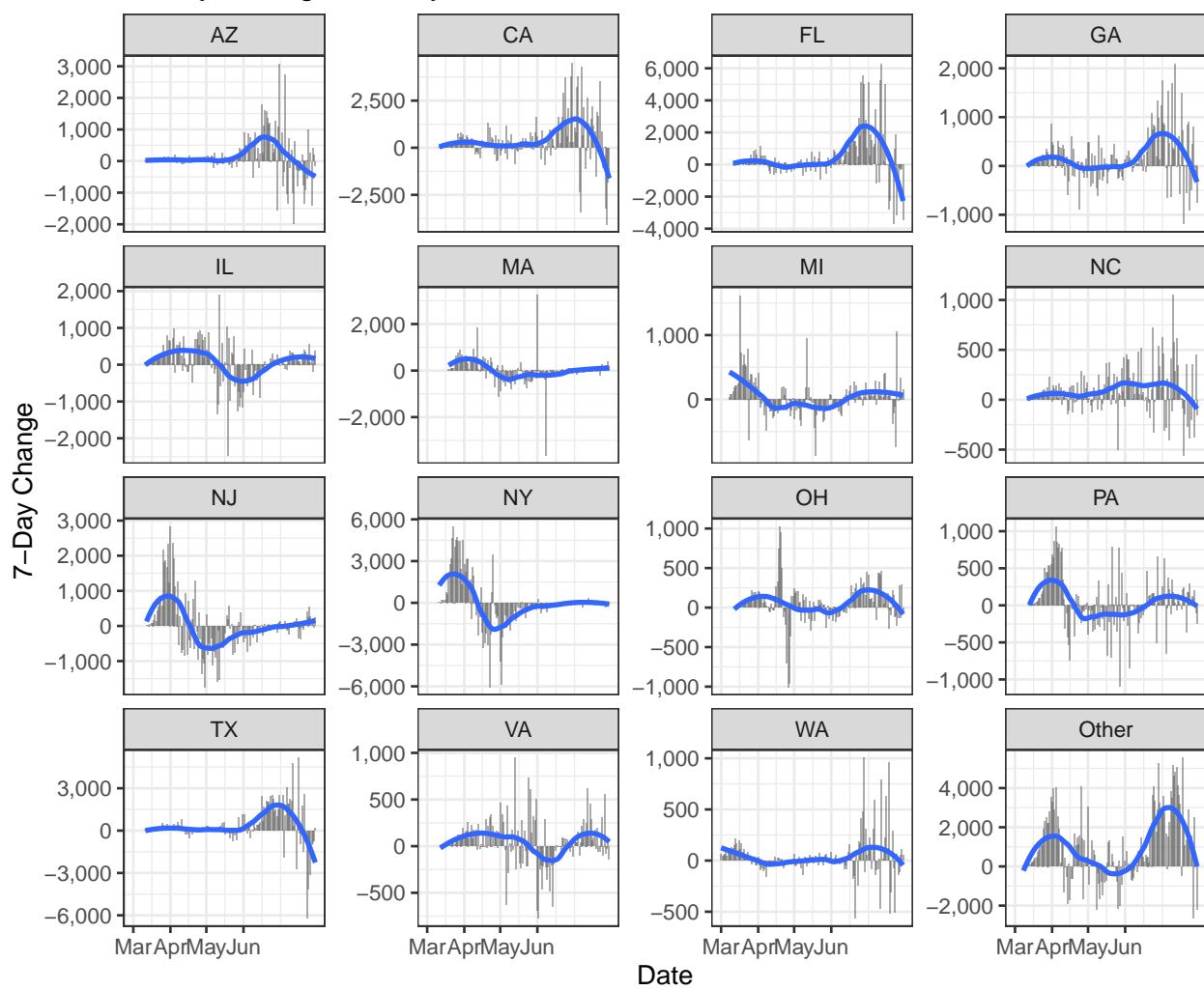
Cases by State

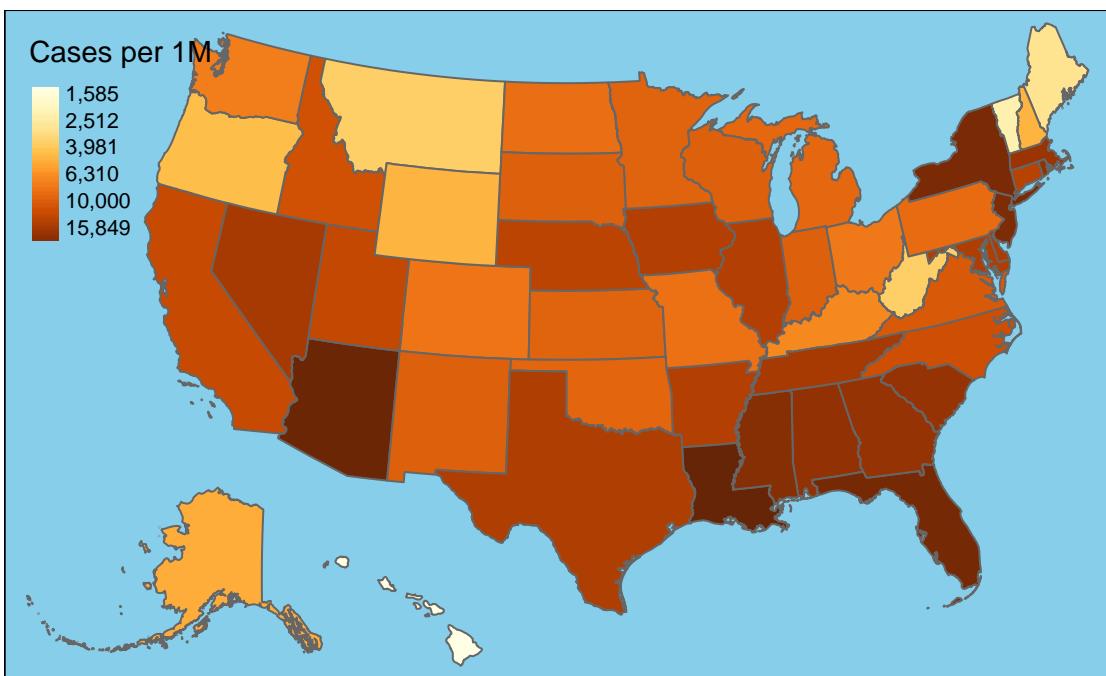
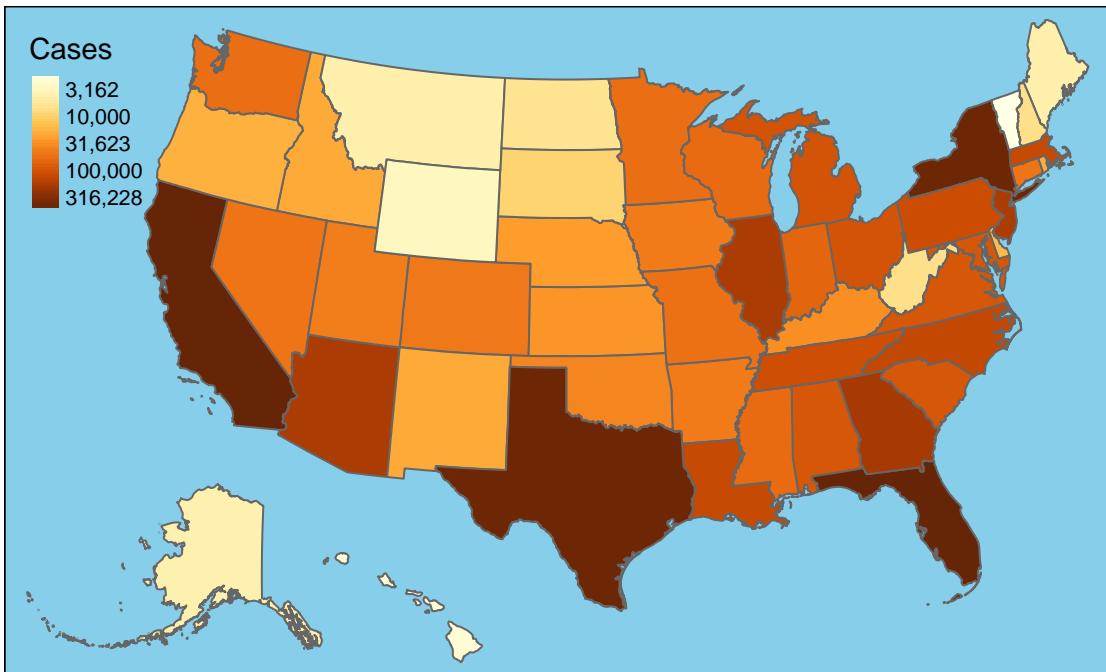


## New Cases by State

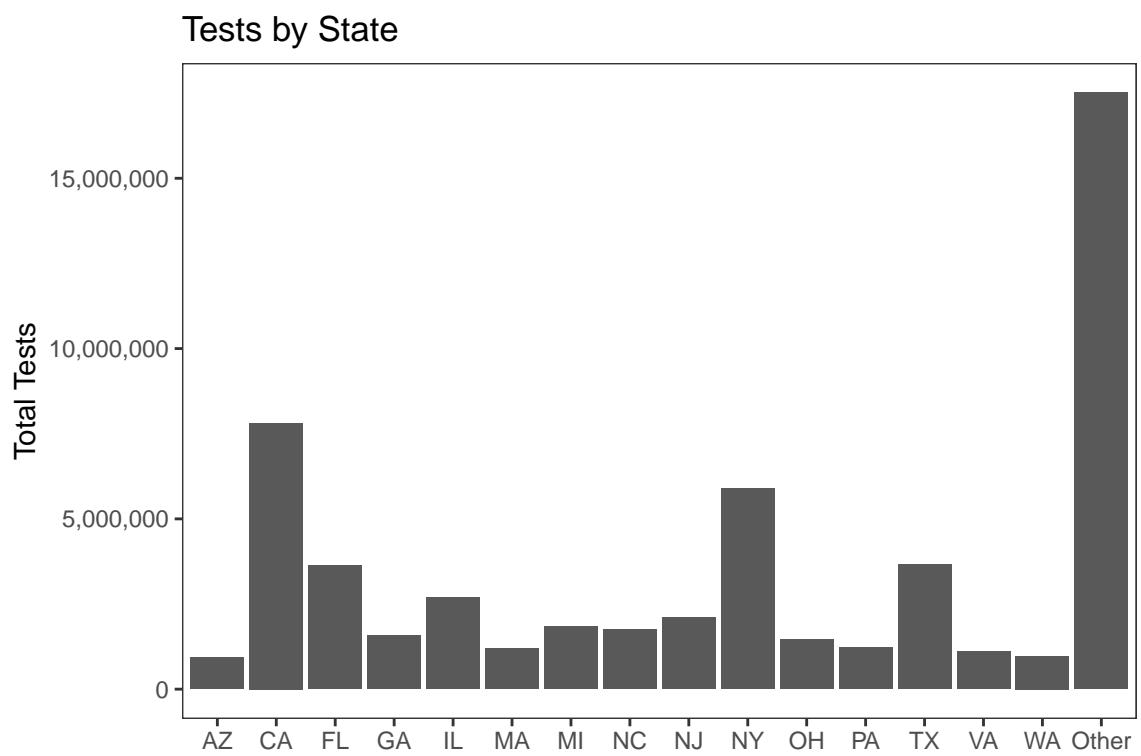


### 7-Day Change in Daily Cases

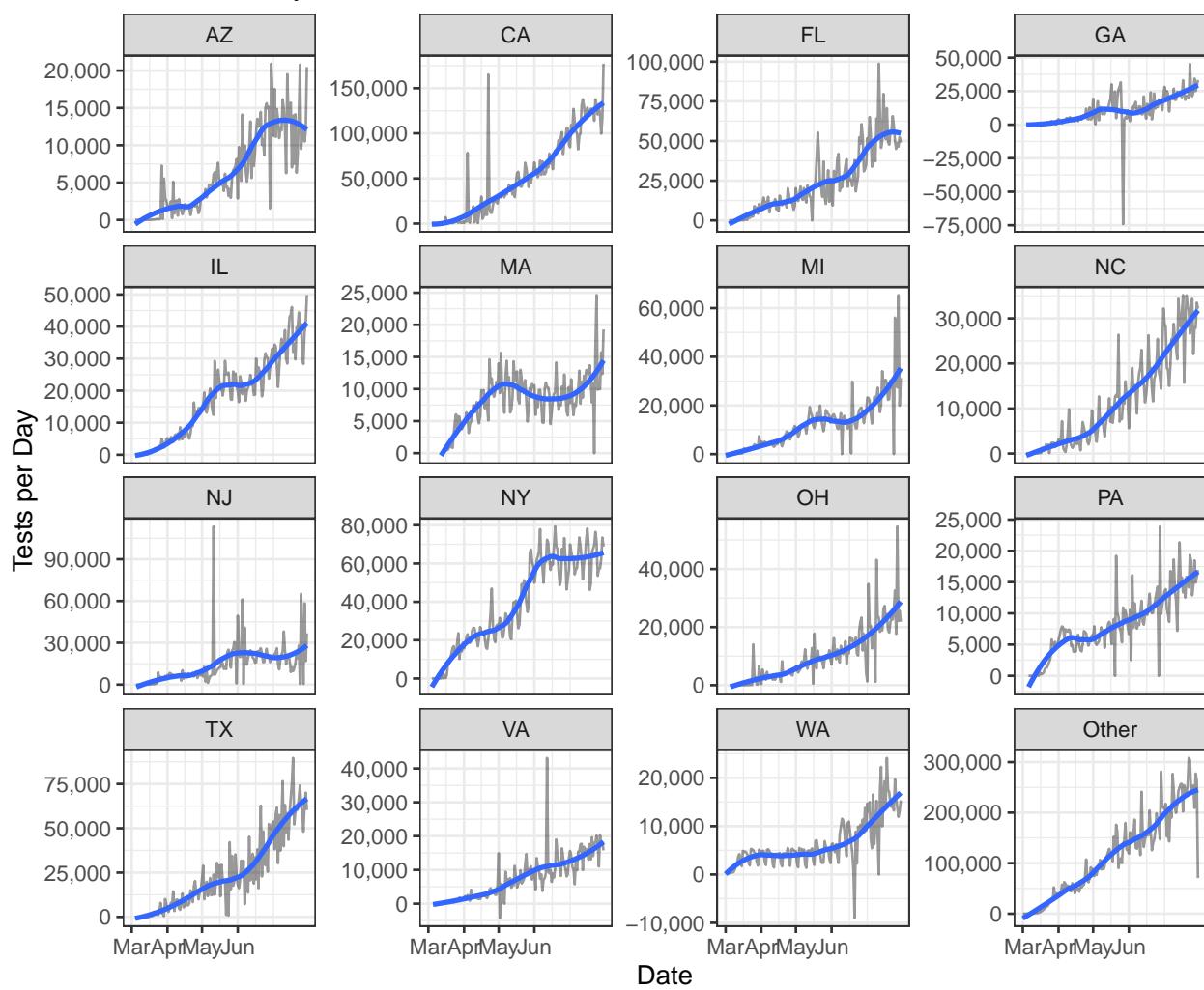


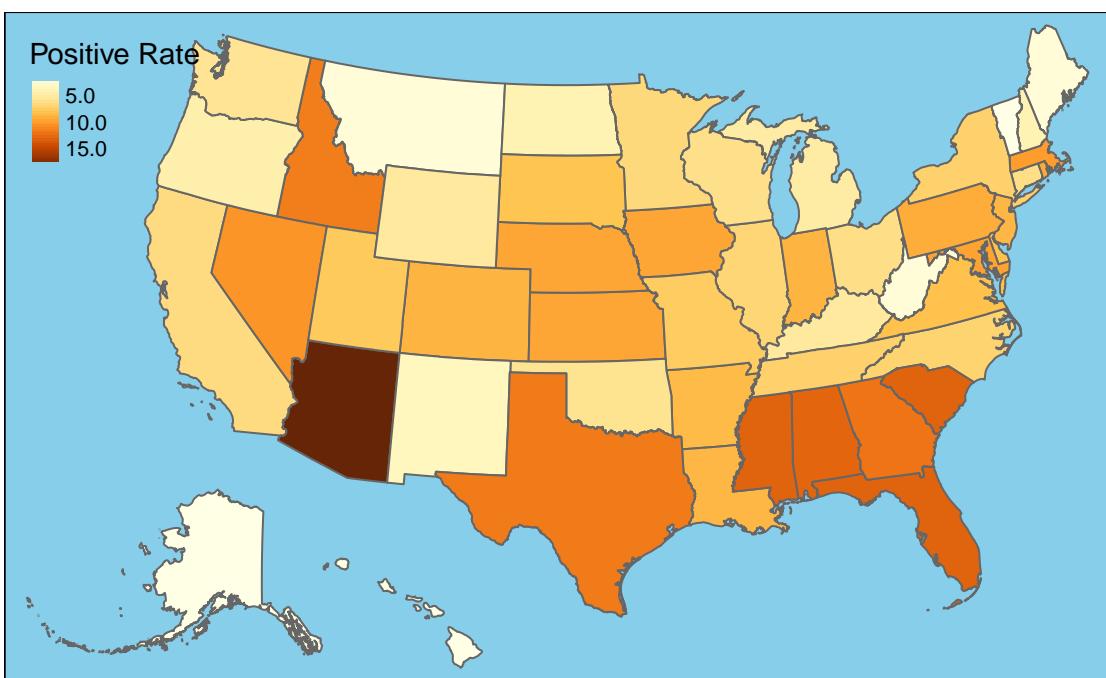
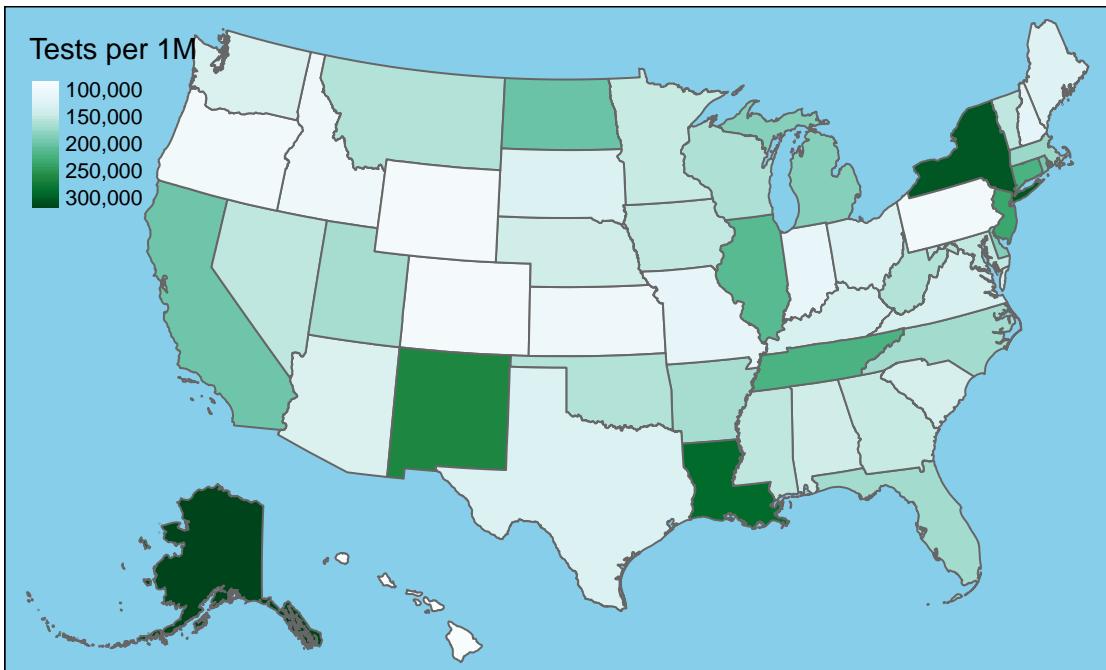


## Testing



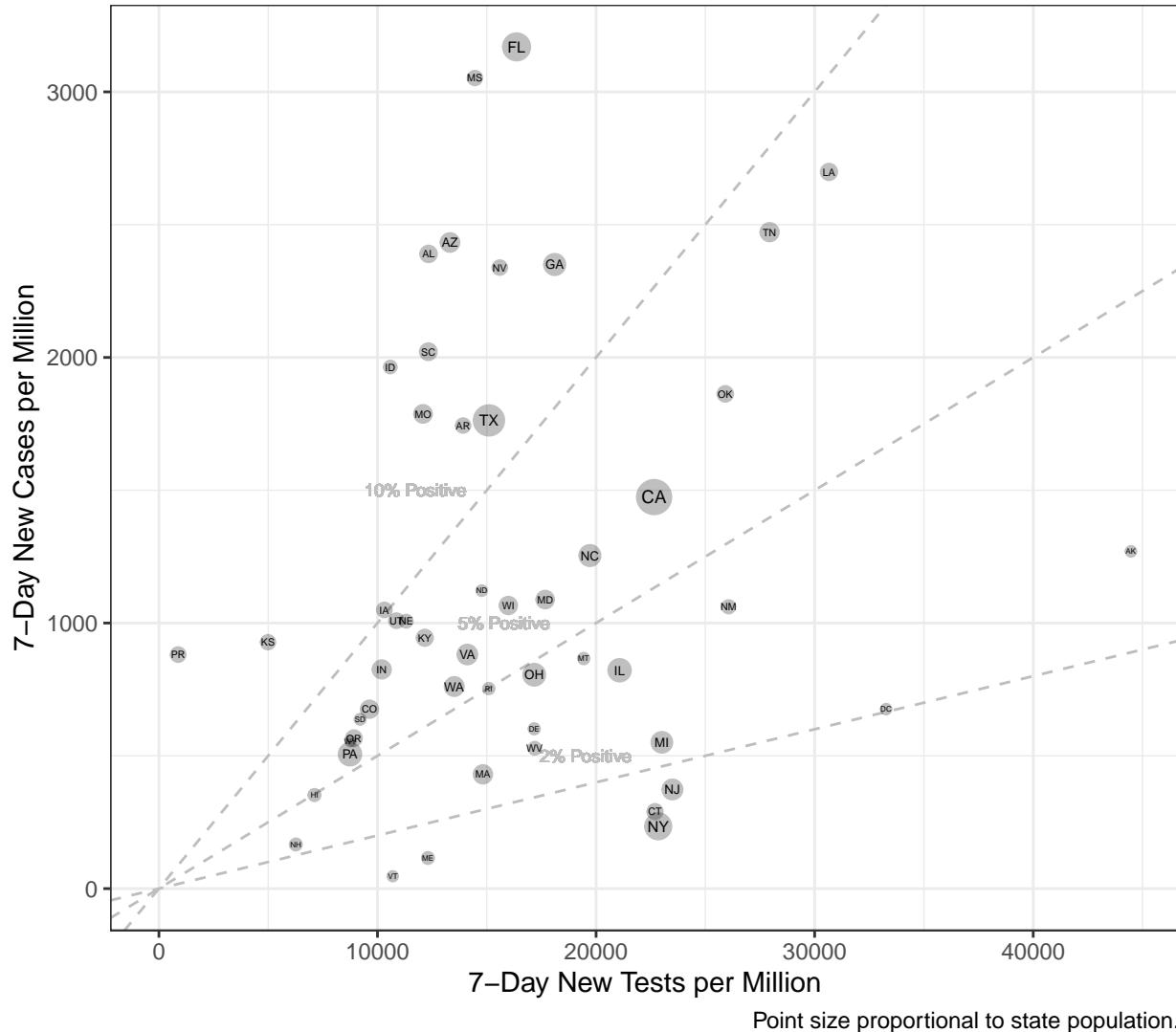
## New Tests by State





Interpretation of differences in case rates across states is complicated by the fact that those states that do more thorough testing will invariably uncover more cases. A lower positive test rate is an indication that a state is doing more comprehensive testing since, when testing is rationed, only those individuals who are more likely to test positive are typically tested. The following chart compares the one-week increase in detected cases to the number of tests administered by each state relative to population. The states of greatest current concern are those with both a large increase in detected cases and a relatively small increase in tests. These states lie in the upper-left of the chart.

### Tests vs. Cases by State



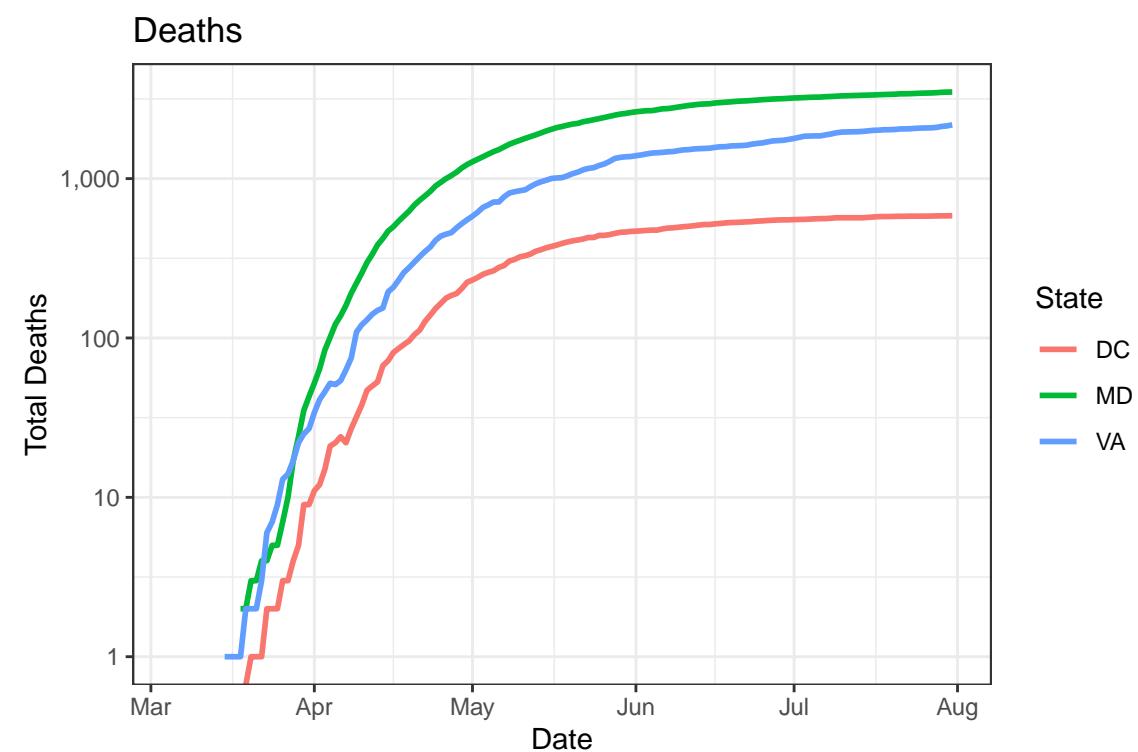
## Local Data

The following charts and tables present mortality, case, and testing data for the Washington DC metropolitan area and adjacent states.

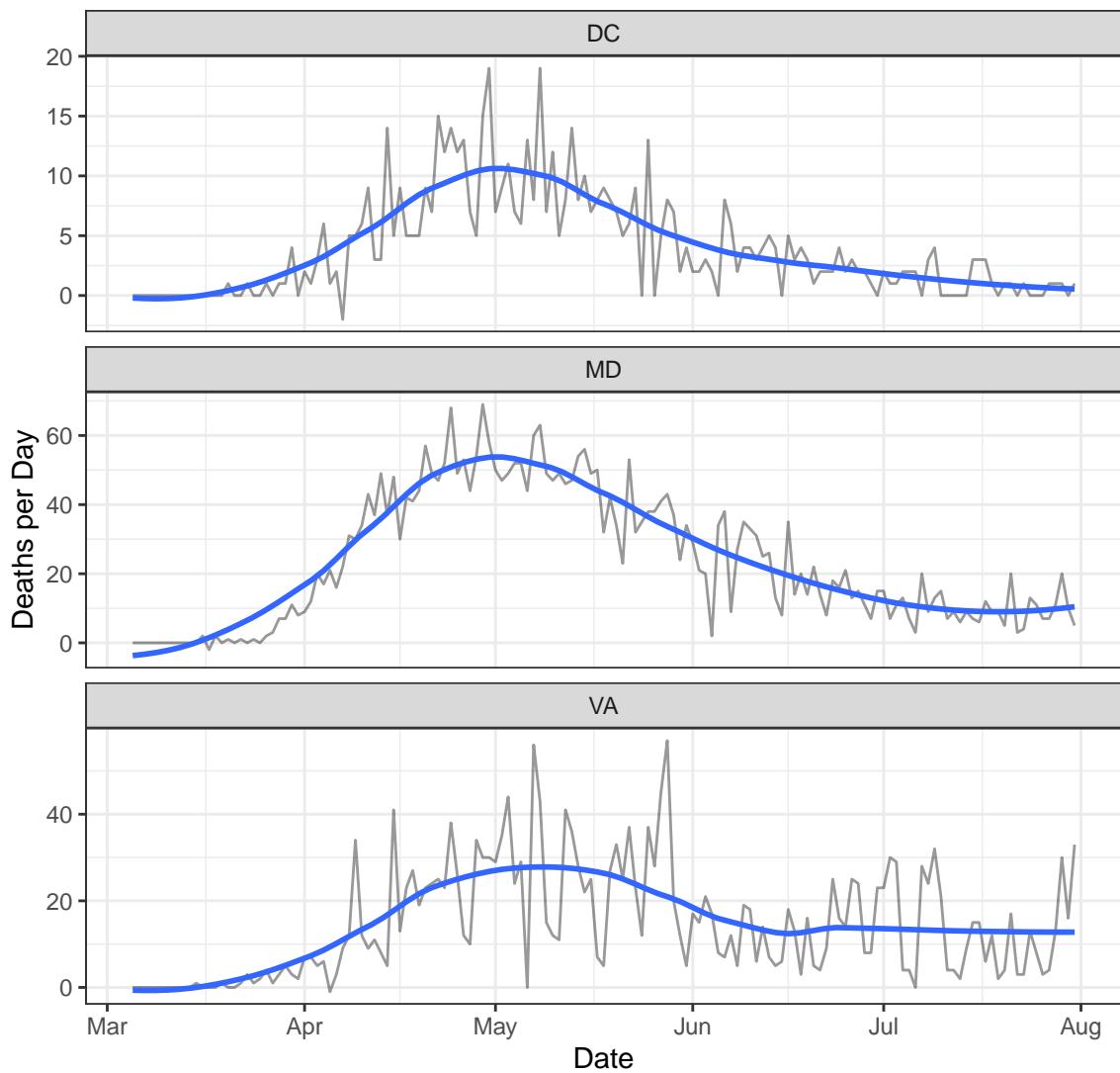
Table 3: Latest Local Data

State	Cases	Deaths	New Cases	New Deaths
DC	12,126	585	69	1
MD	88,346	3,493	1,169	5
VA	89,888	2,174	984	33

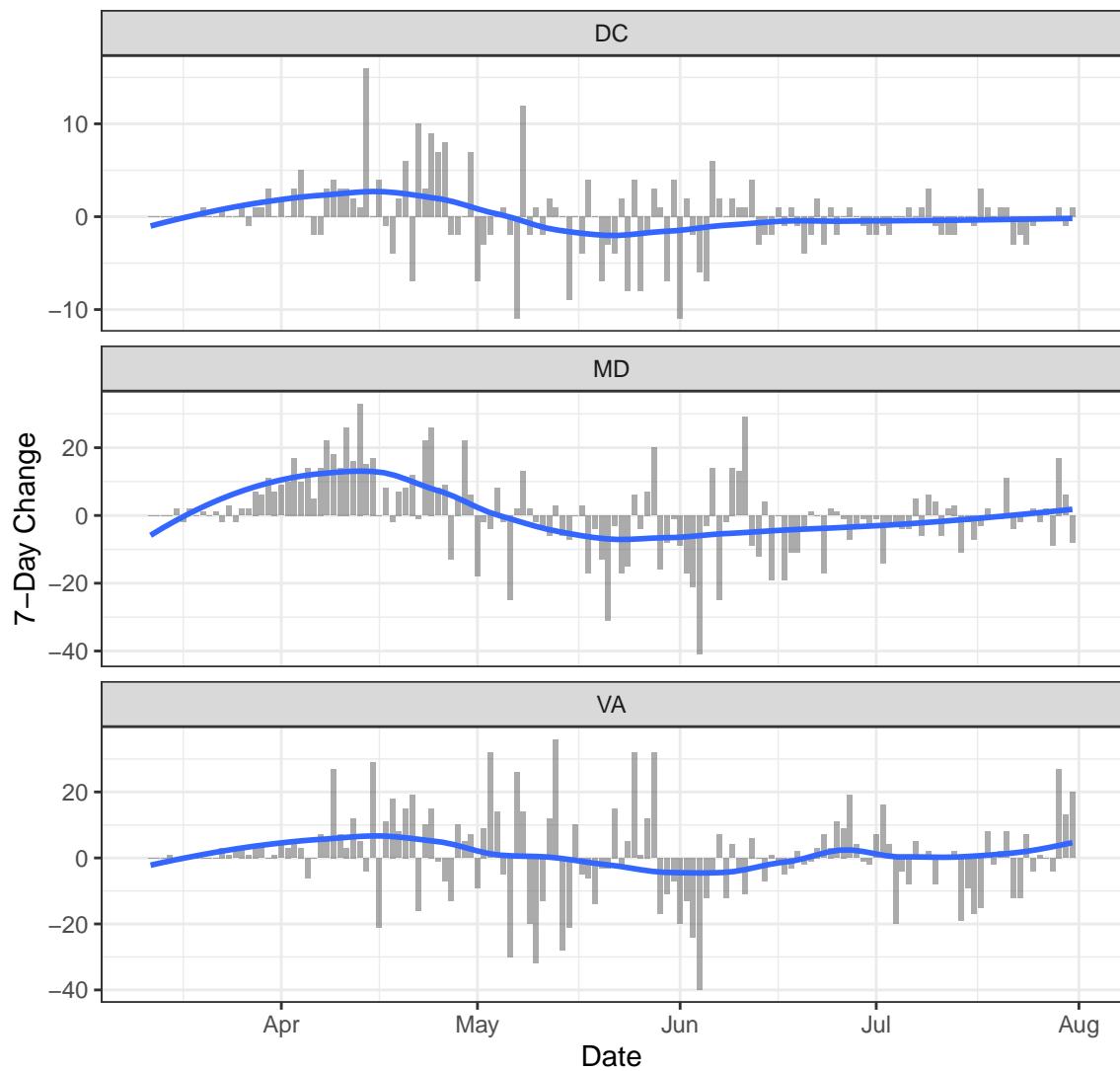
## Deaths

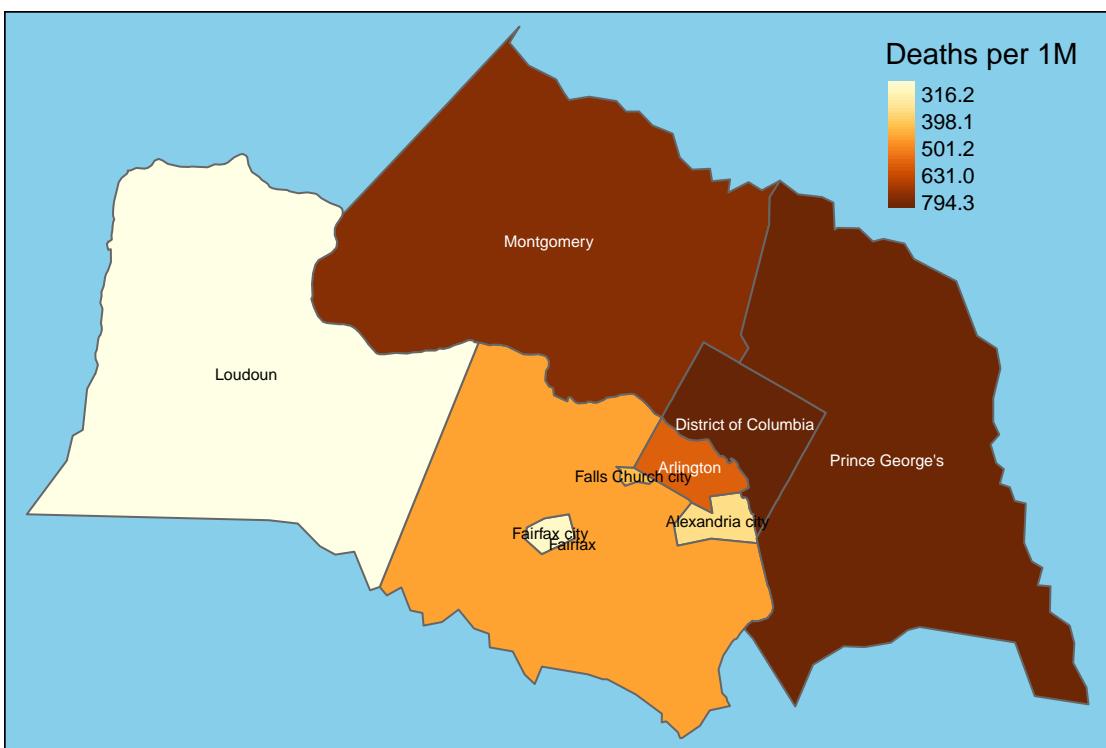
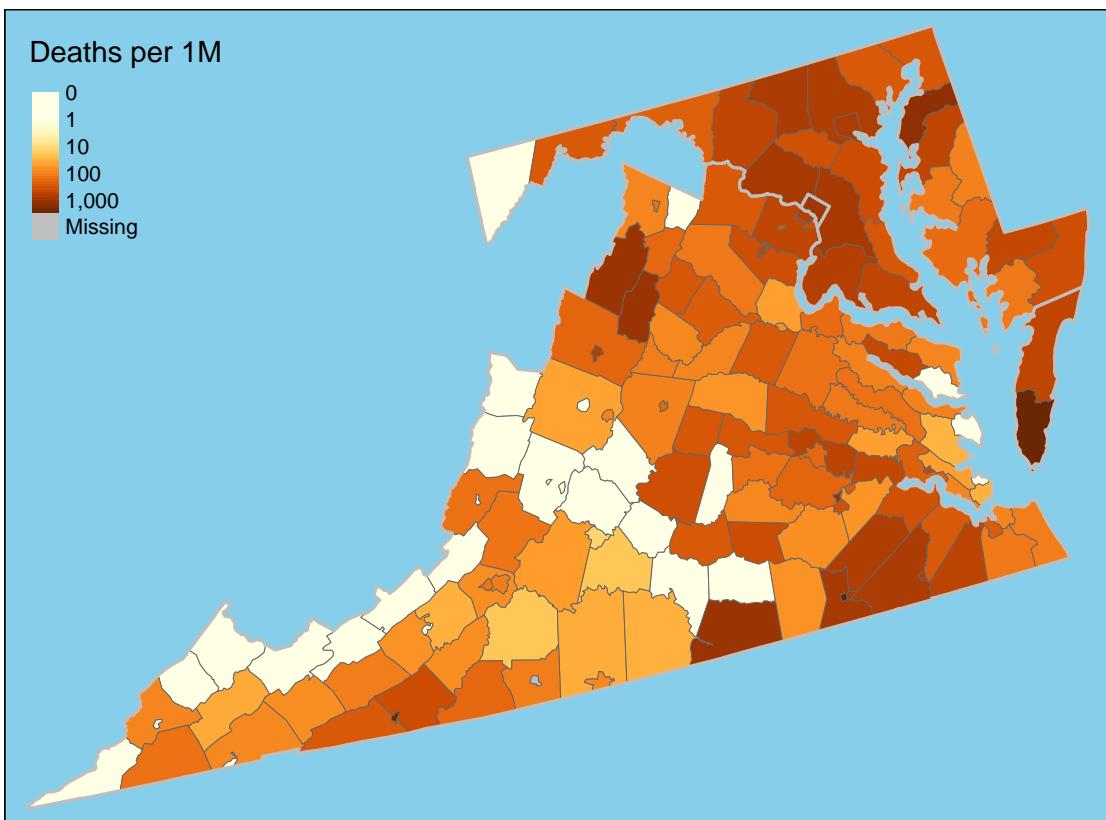


## New Deaths

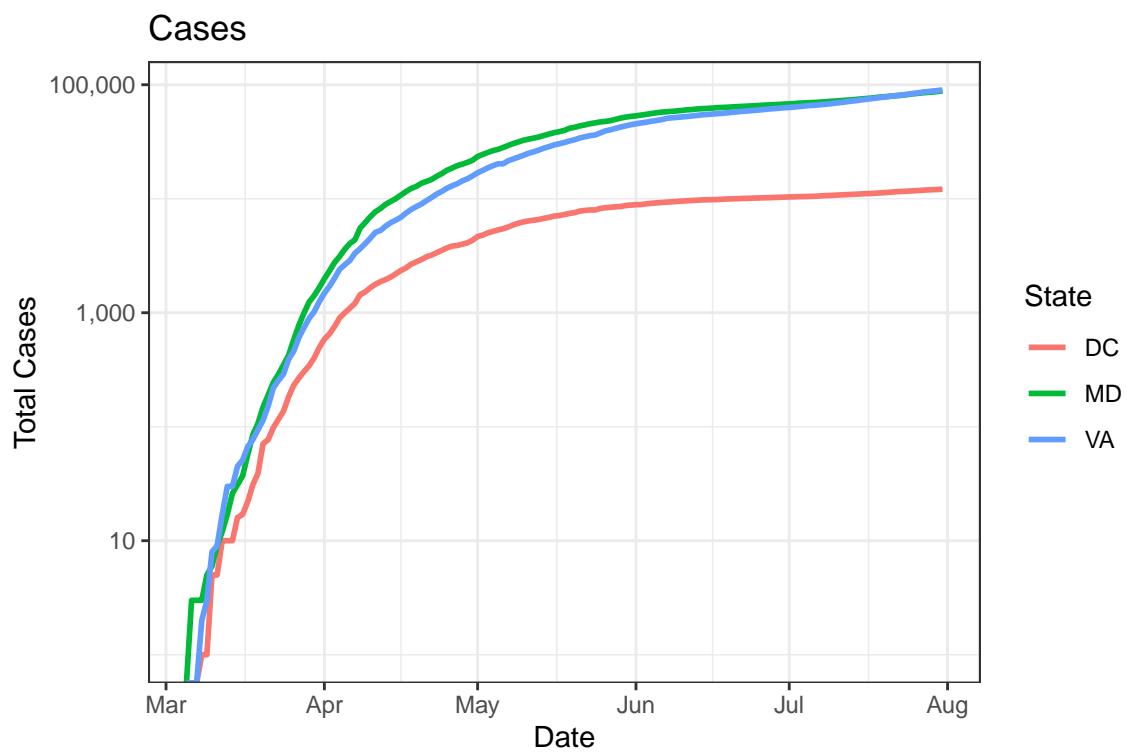


## One-Week Change in Daily Deaths

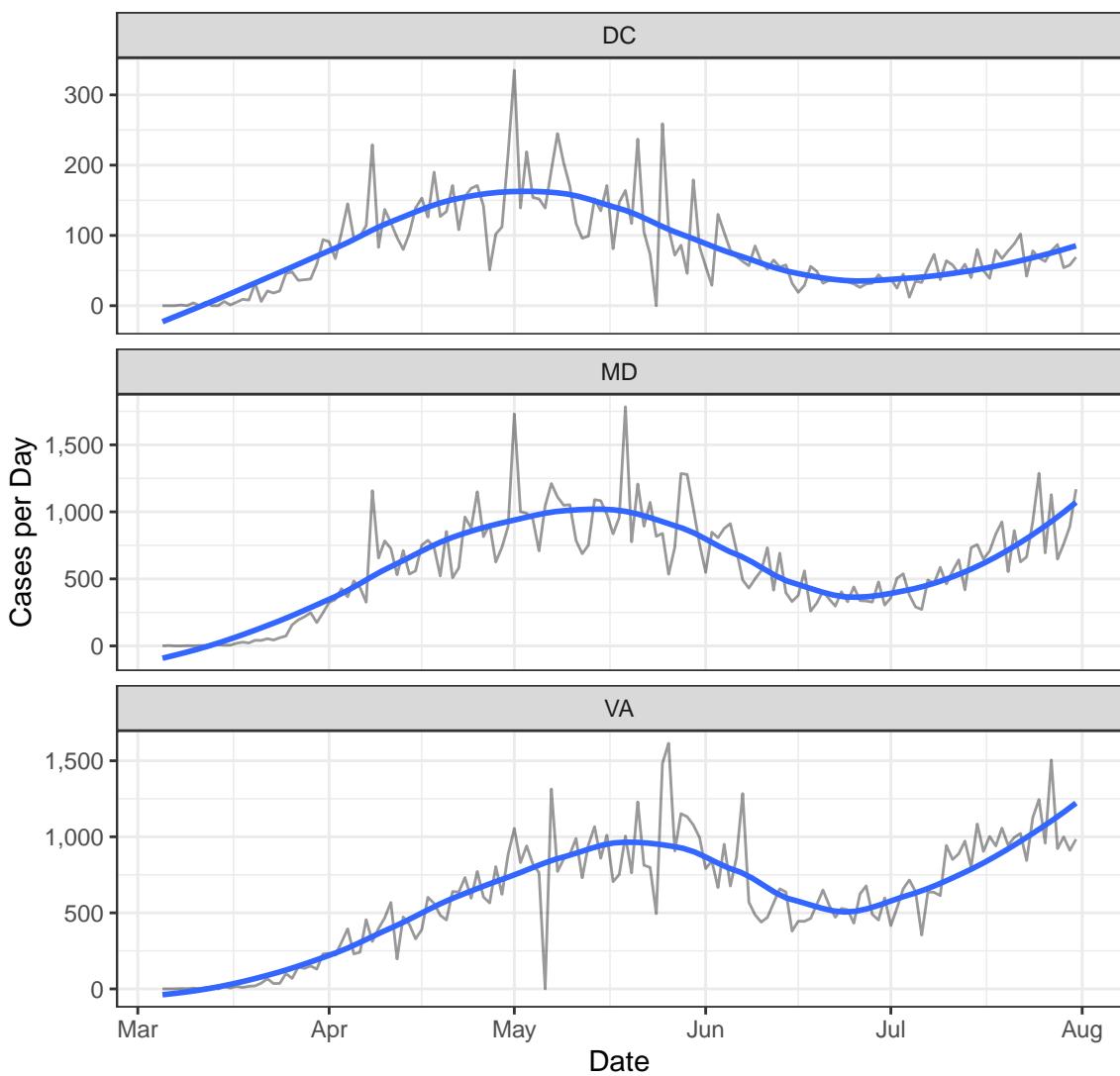




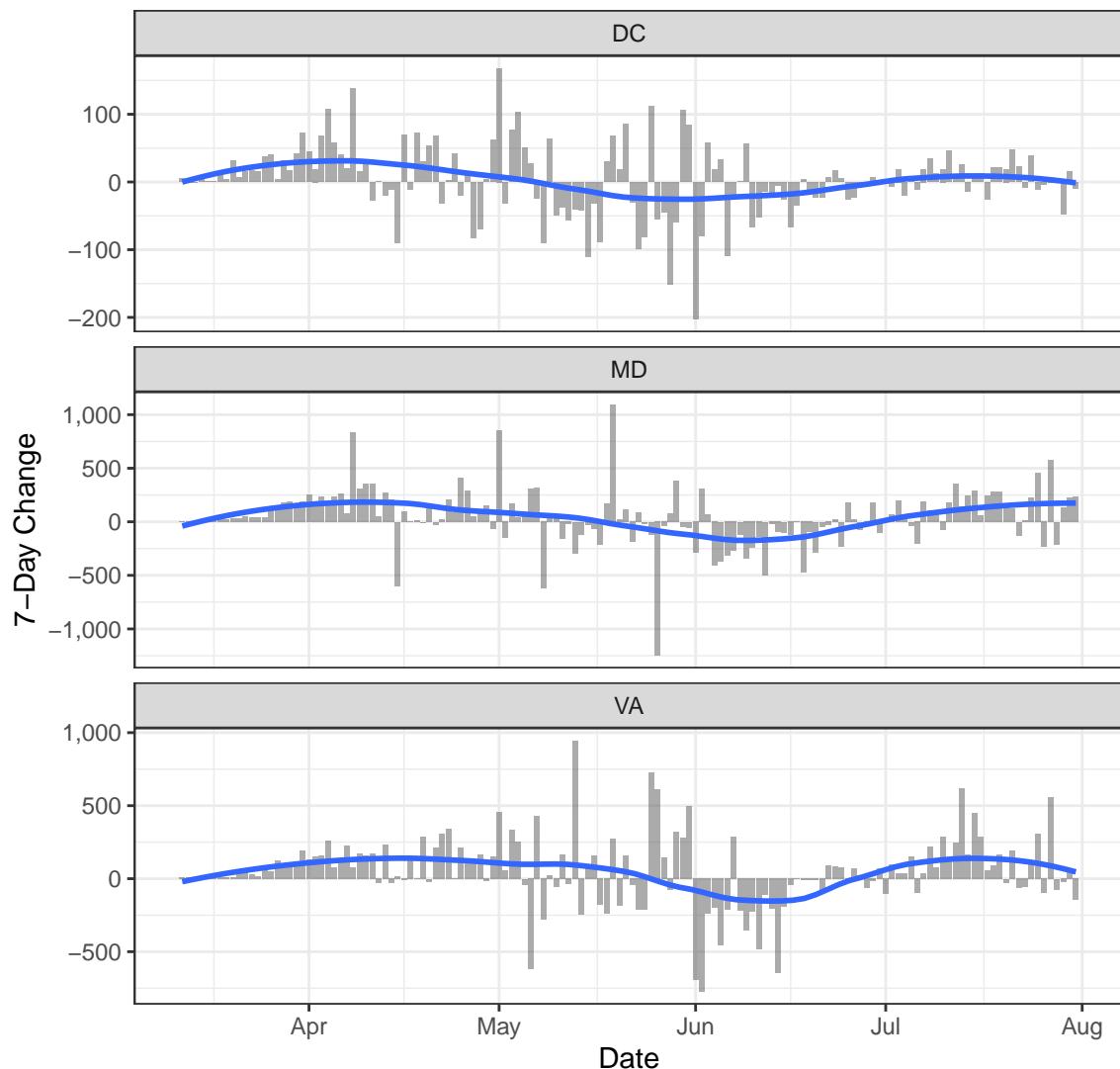
Cases

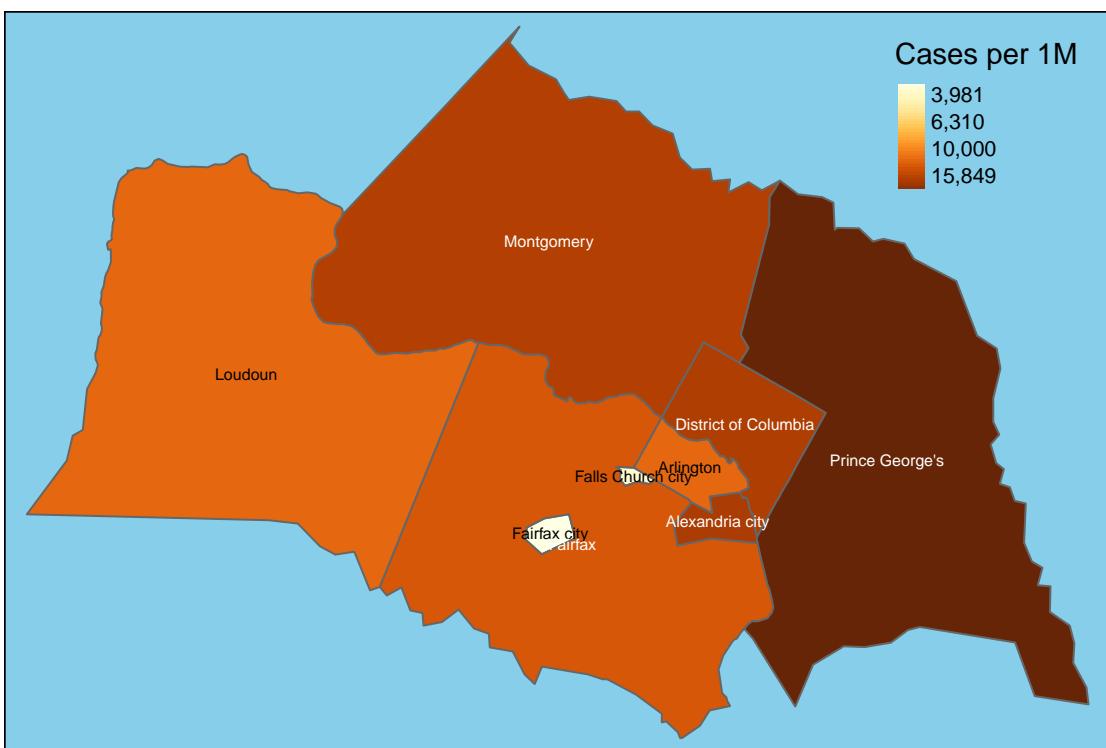
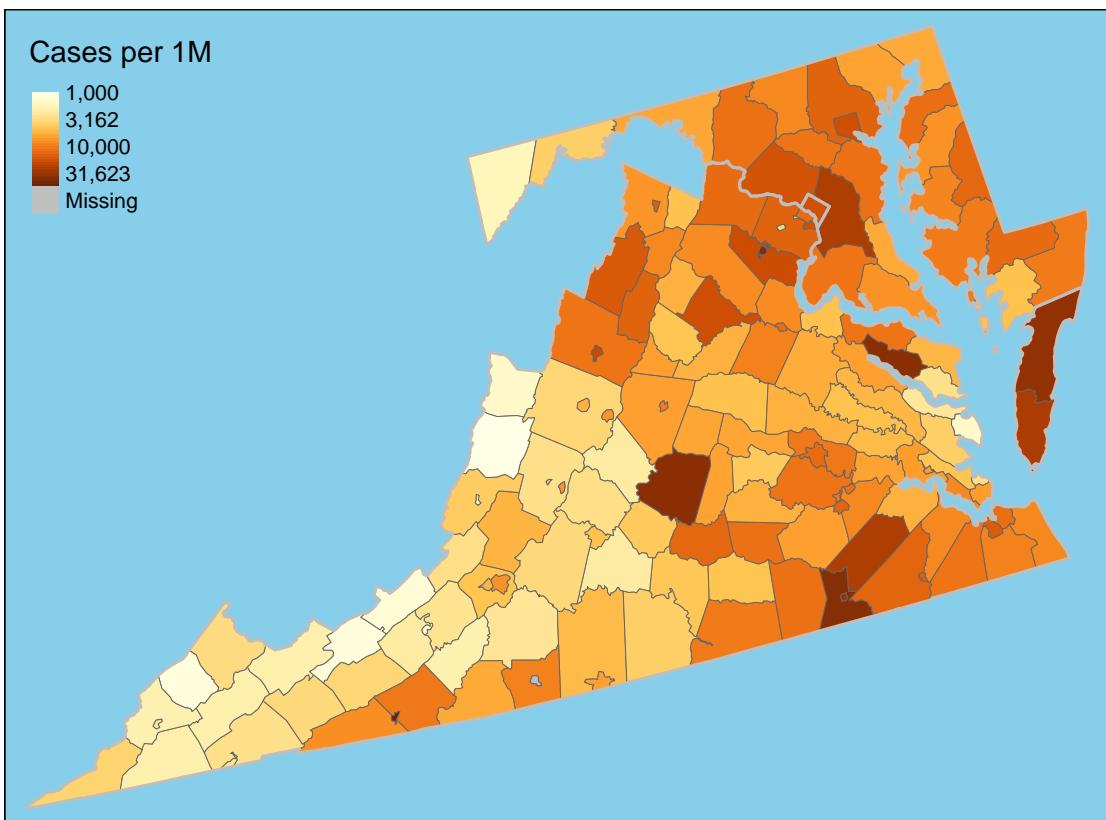


## New Cases

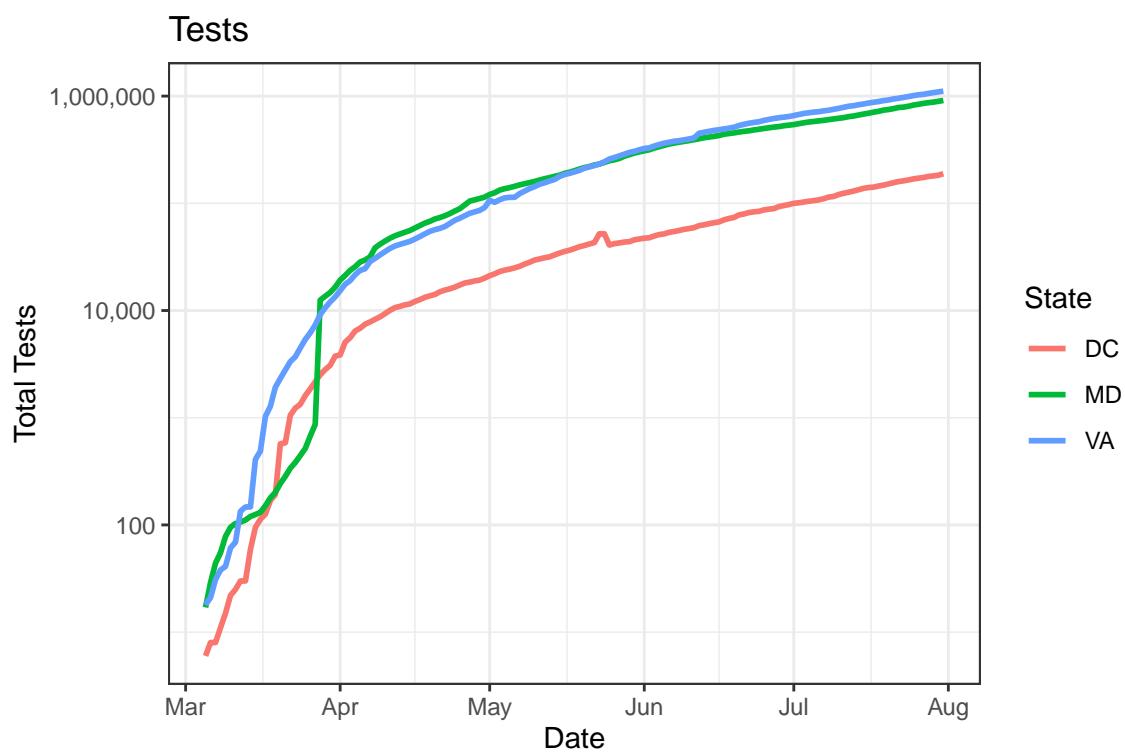


## One-Week Change in Daily Cases

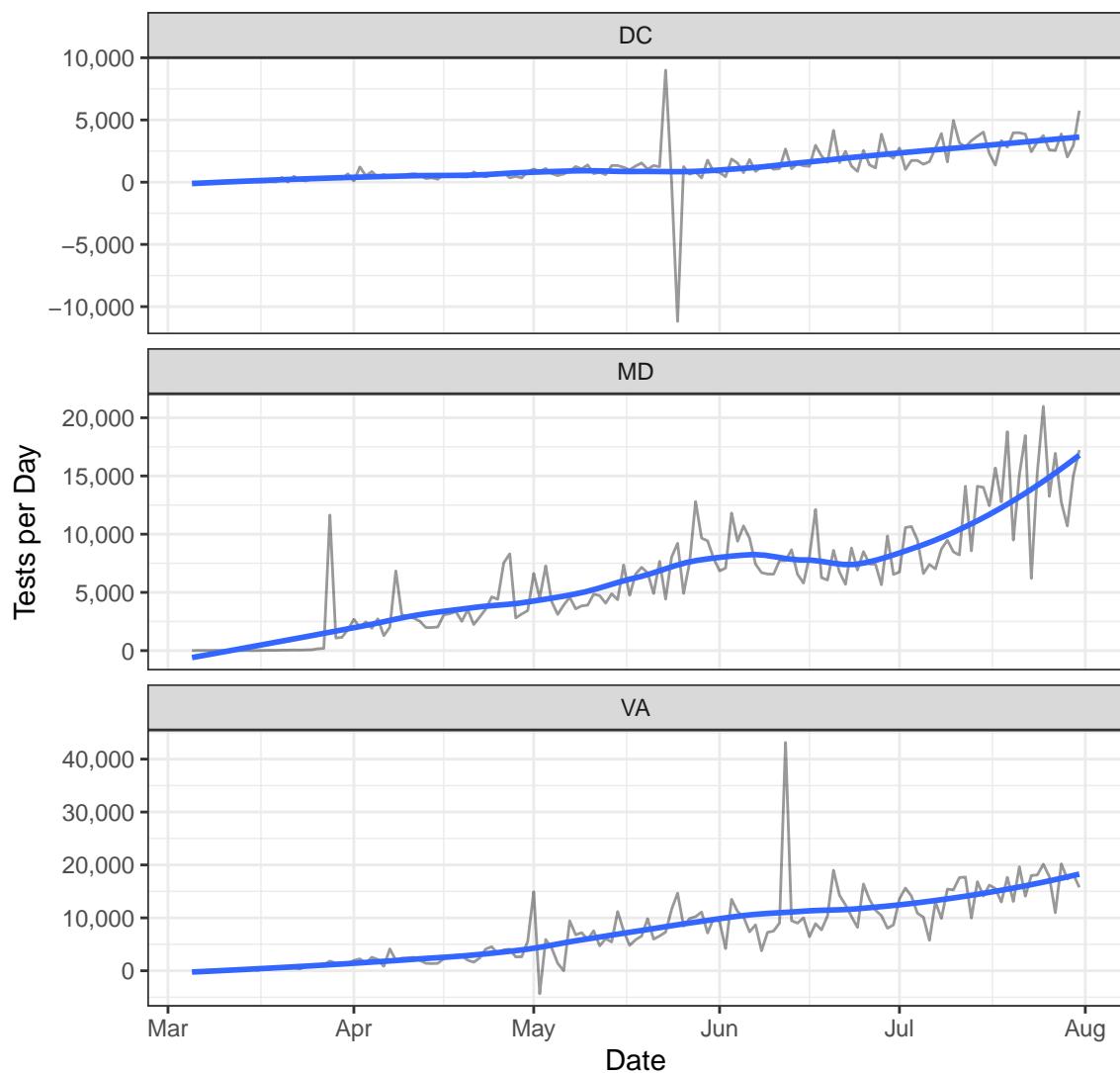




## Testing



## New Tests



## Positive Test Rate

