

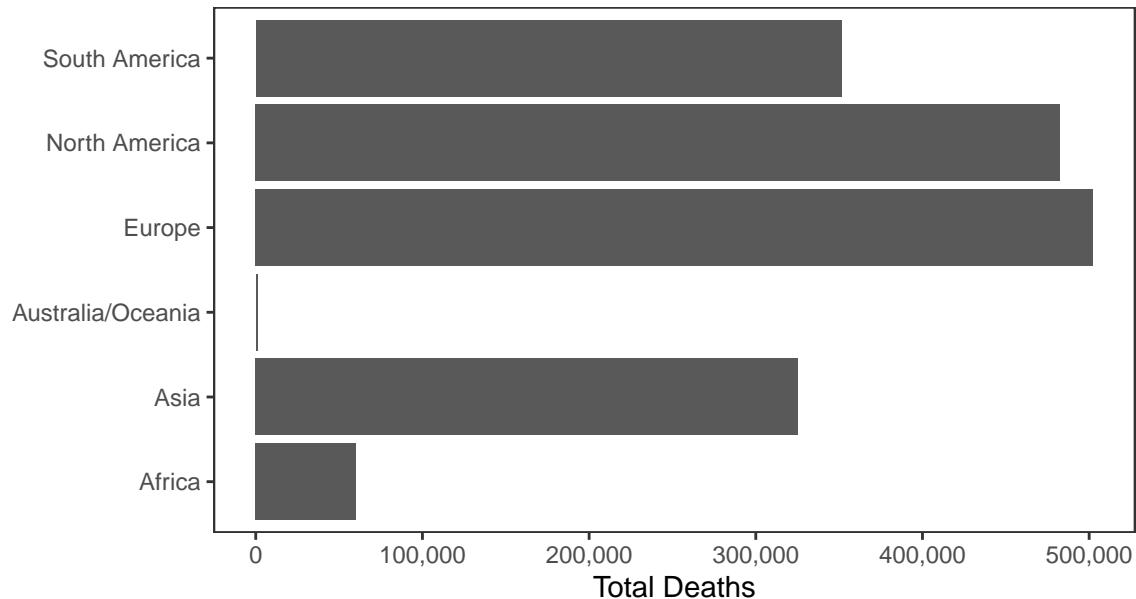
# Erik's Covid-19 Chart Pack

Data updated 2020-12-23 09:00:07. 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 78,353,156 confirmed Covid-19 cases and 1,723,042 deaths worldwide.

**Deaths**



**Cases**

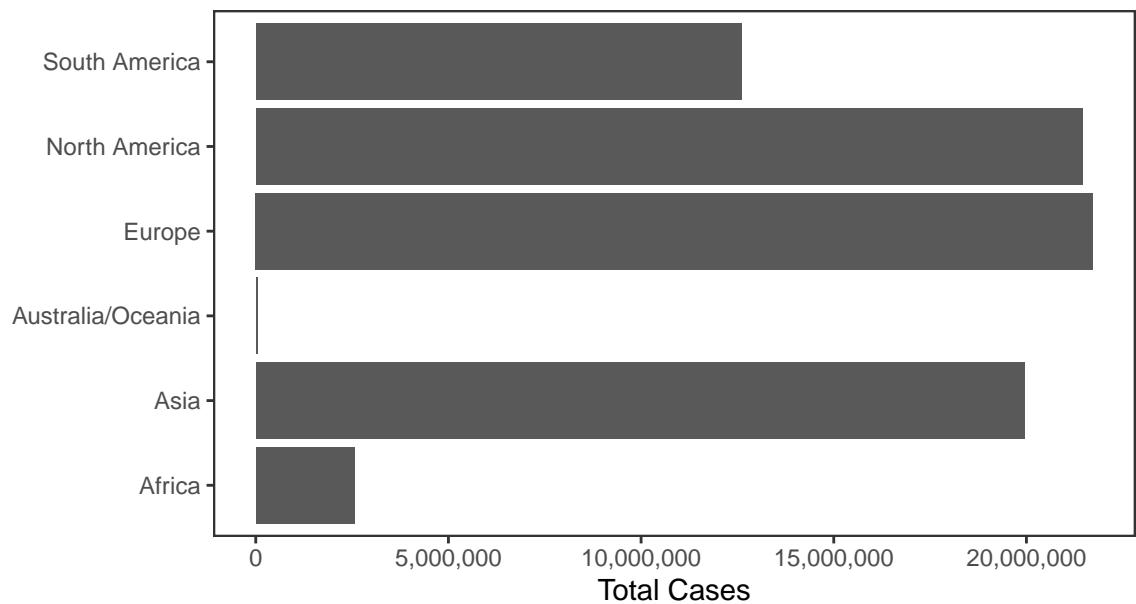
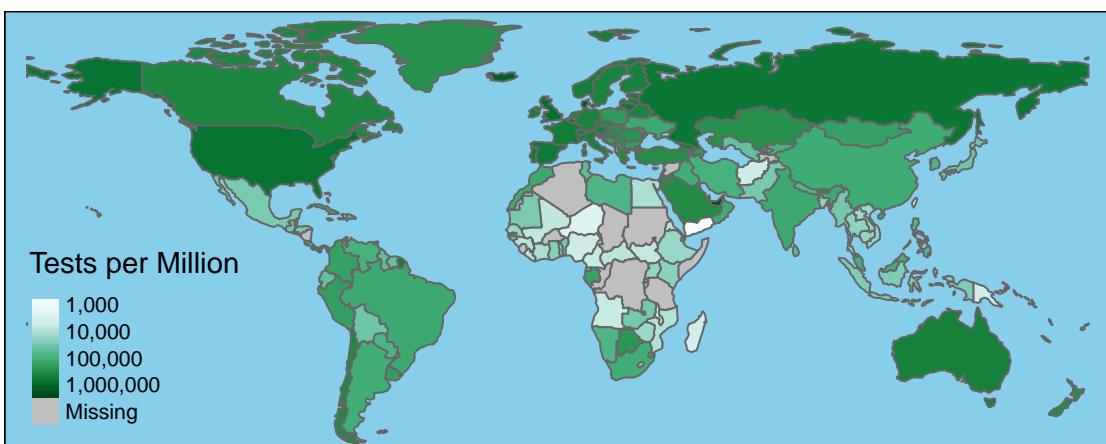
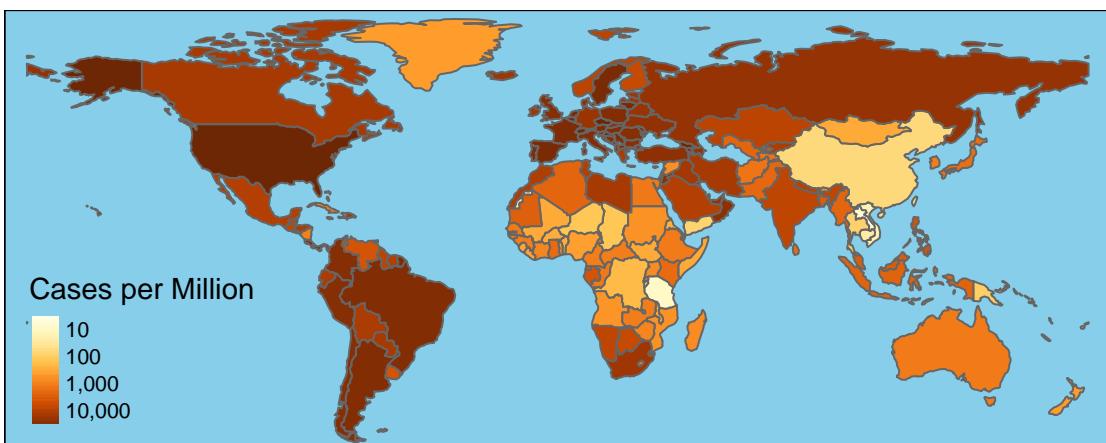
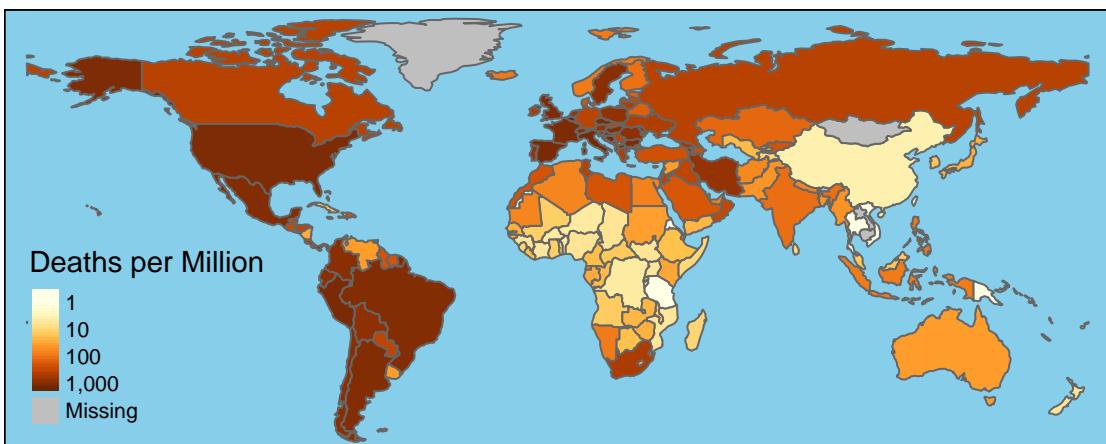


Table 1: Top Countries by Total Cases

Country	Cases	Deaths	New Cases	New Deaths
USA	18,684,628	330,824	199,080	3,376
India	10,099,308	146,476	23,886	331
Brazil	7,320,020	188,285	55,799	963
Russia	2,906,503	51,912	28,776	561
France	2,490,946	61,702	11,795	487
UK	2,110,314	68,307	36,804	691
Turkey	2,062,960	18,602	19,256	251
Italy	1,977,370	69,842	13,318	628
Spain	1,838,654	49,520	8,544	260
Germany	1,556,611	28,241	22,495	944
Argentina	1,555,279	42,254	8,141	257
Colombia	1,530,593	40,931	12,526	251
Mexico	1,325,915	118,598	5,370	396
Poland	1,214,522	25,783	7,189	309
Iran	1,170,743	54,003	6,208	187
Peru	1,000,153	37,218	1,678	45
Ukraine	979,506	16,897	8,513	232
South Africa	940,212	25,246	9,501	339
Netherlands	710,683	10,633	9,810	114
Indonesia	678,125	20,257	6,347	172



## National Data

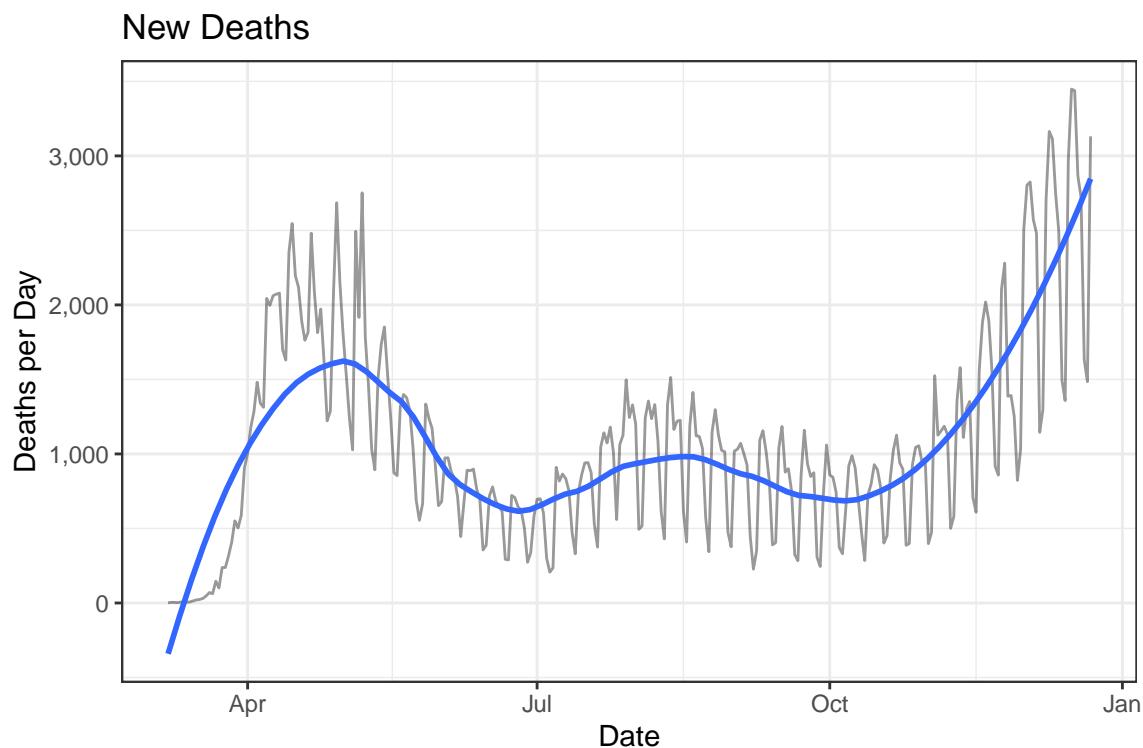
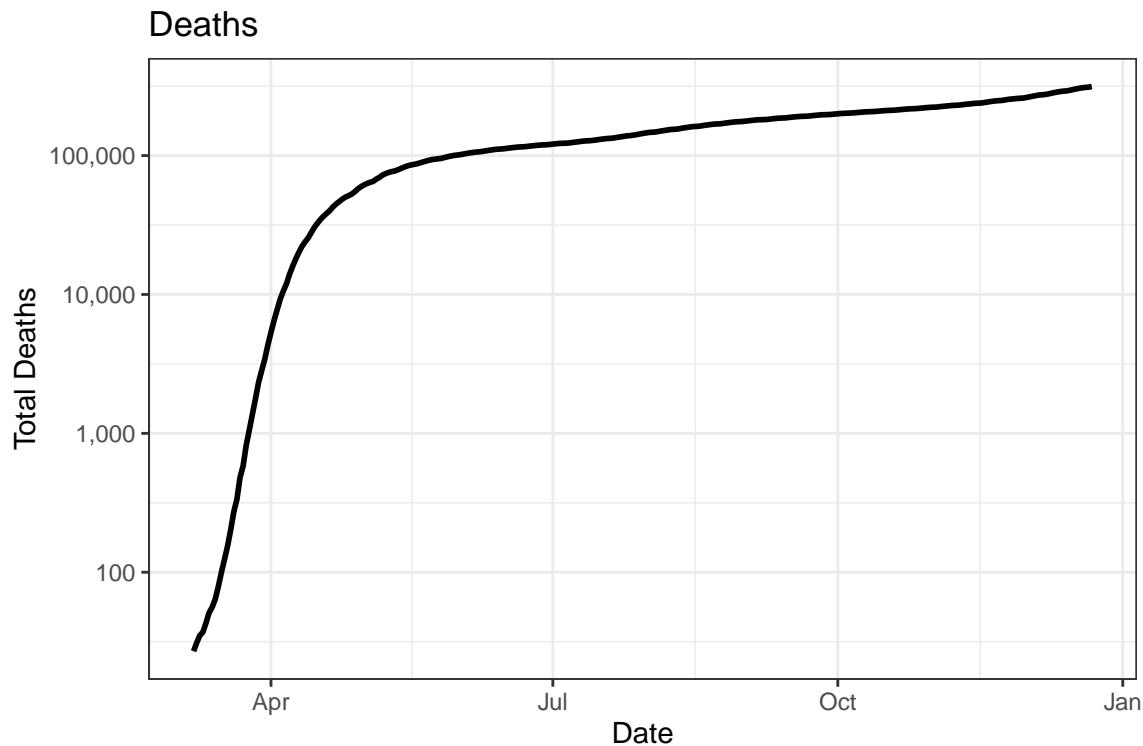
There have been 18,016,698 confirmed Covid-19 cases and 314,099 deaths in the United States.

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

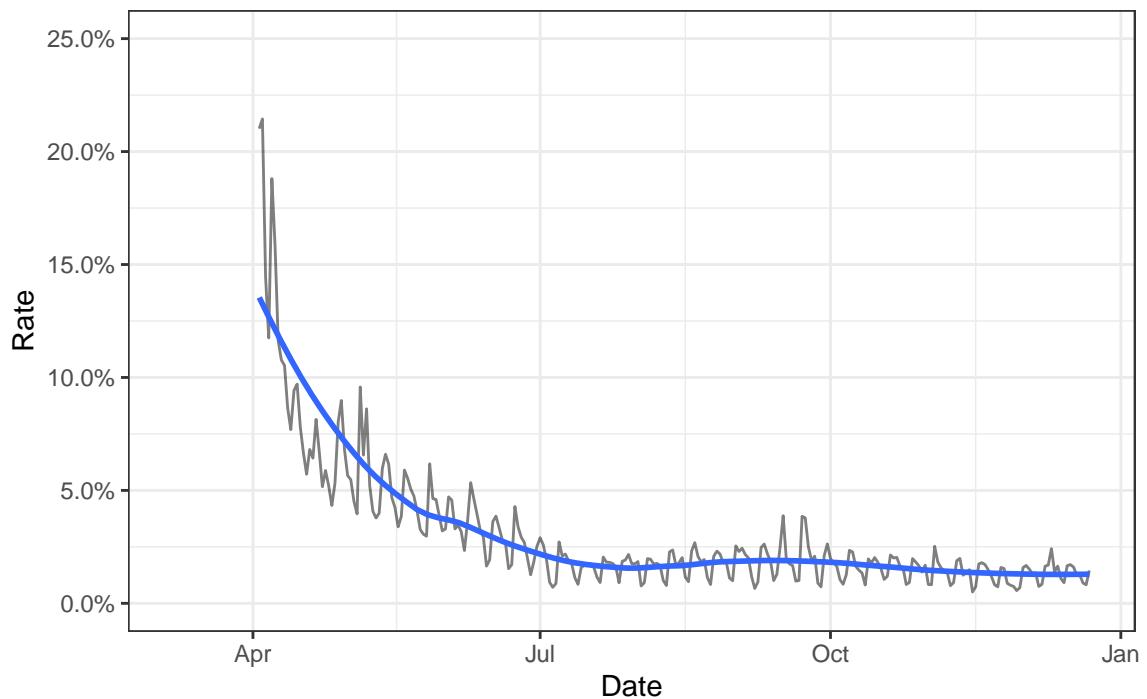
Date	Cases	Deaths	New Cases	New Deaths
2020-12-22	18,016,698	314,099	188,614	3,131
2020-12-21	17,828,084	310,968	178,191	1,485
2020-12-20	17,649,893	309,483	196,017	1,633
2020-12-19	17,453,876	307,850	202,812	2,723
2020-12-18	17,251,064	305,127	239,246	2,866
2020-12-17	17,011,818	302,261	240,156	3,438
2020-12-16	16,771,662	298,823	231,653	3,448
2020-12-15	16,540,009	295,375	189,783	2,971
2020-12-14	16,350,226	292,404	192,466	1,358
2020-12-13	16,157,760	291,046	185,801	1,494
2020-12-12	15,971,959	289,552	224,476	2,494
2020-12-11	15,747,483	287,058	234,817	2,749
2020-12-10	15,512,666	284,309	218,951	3,115
2020-12-09	15,293,715	281,194	214,183	3,164

## Deaths

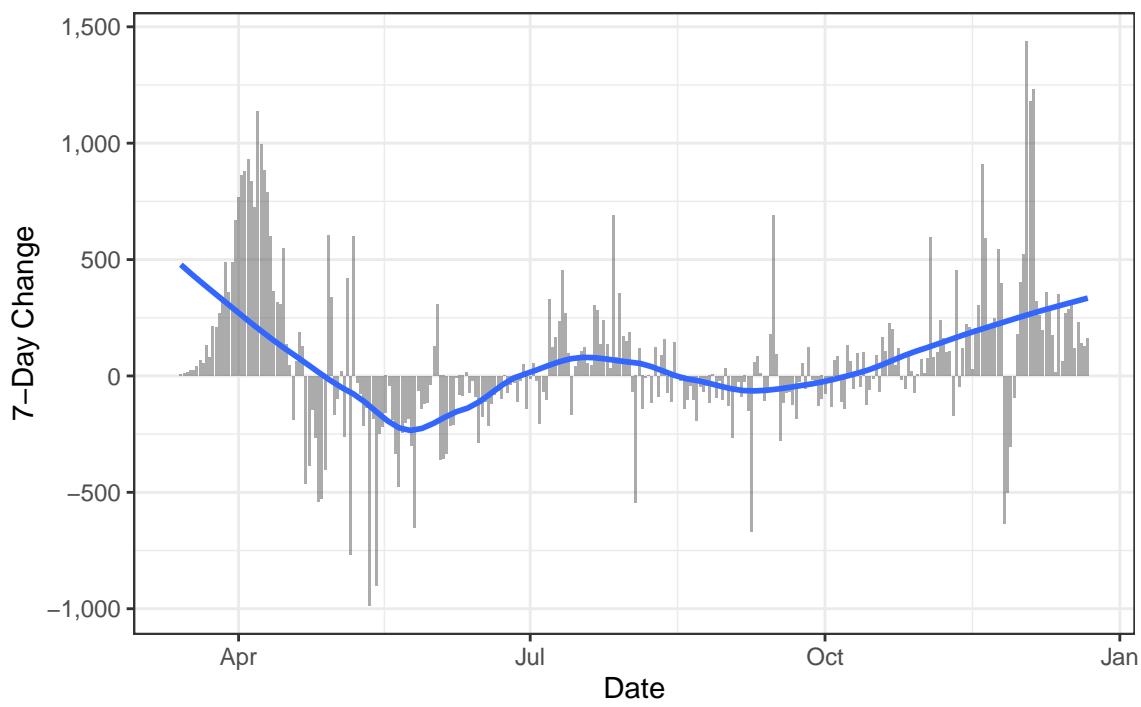
Because the effects of the virus can take several weeks to manifest in patients, deaths are a lagging indicator of contagion, but they may be a more reliable than case counts, which are a function of both the prevalence of the disease and the rate of testing. The case mortality rate is a very crude indicator 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.

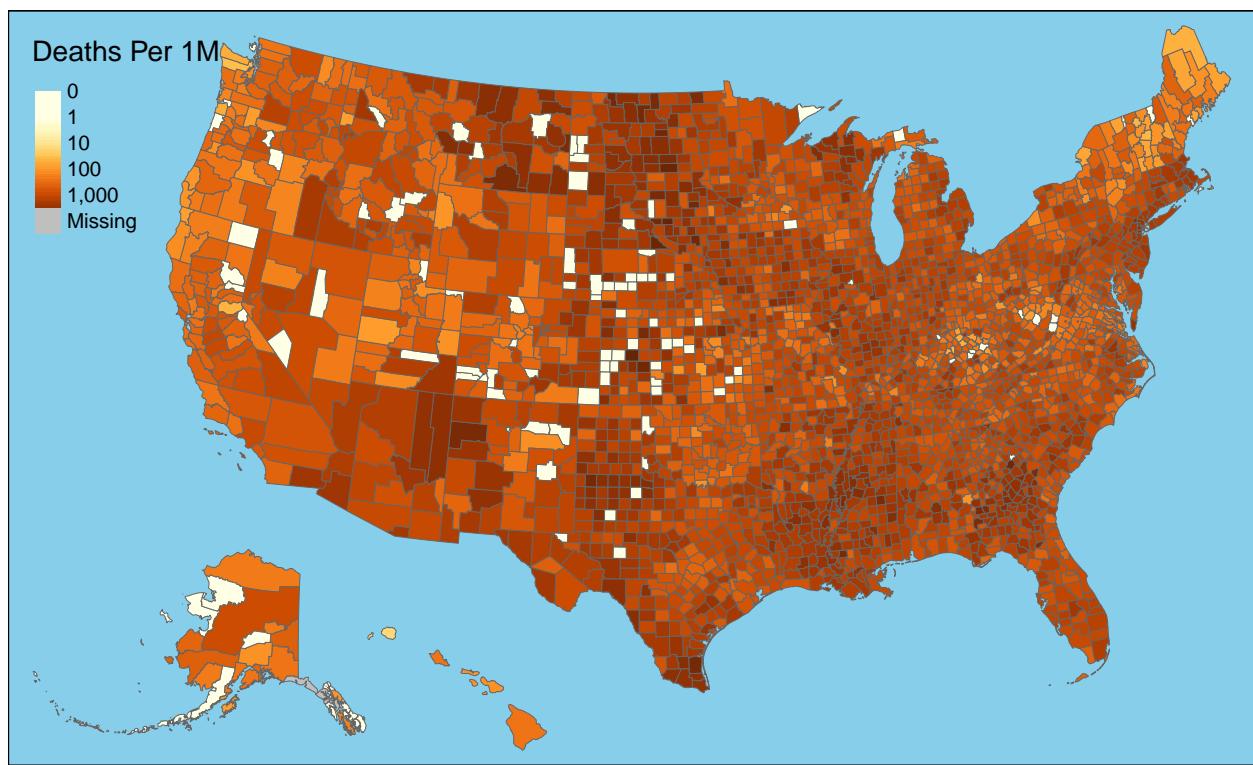


Daily Case Mortality Rate



One-Week Change in Daily Deaths

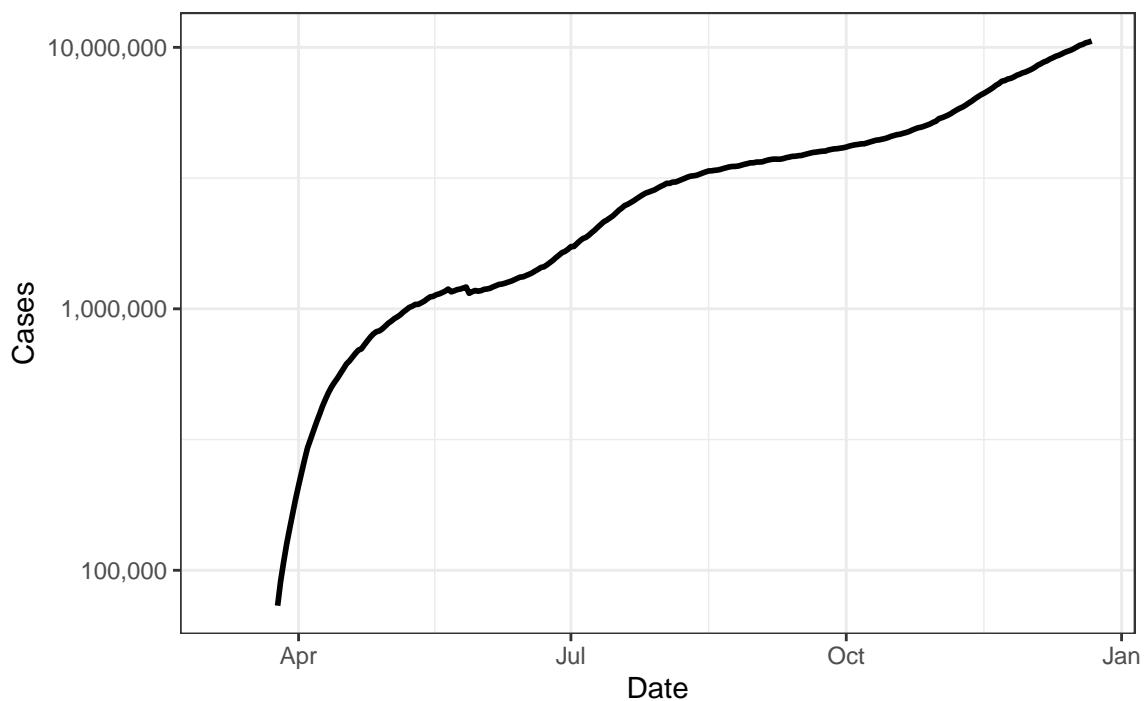




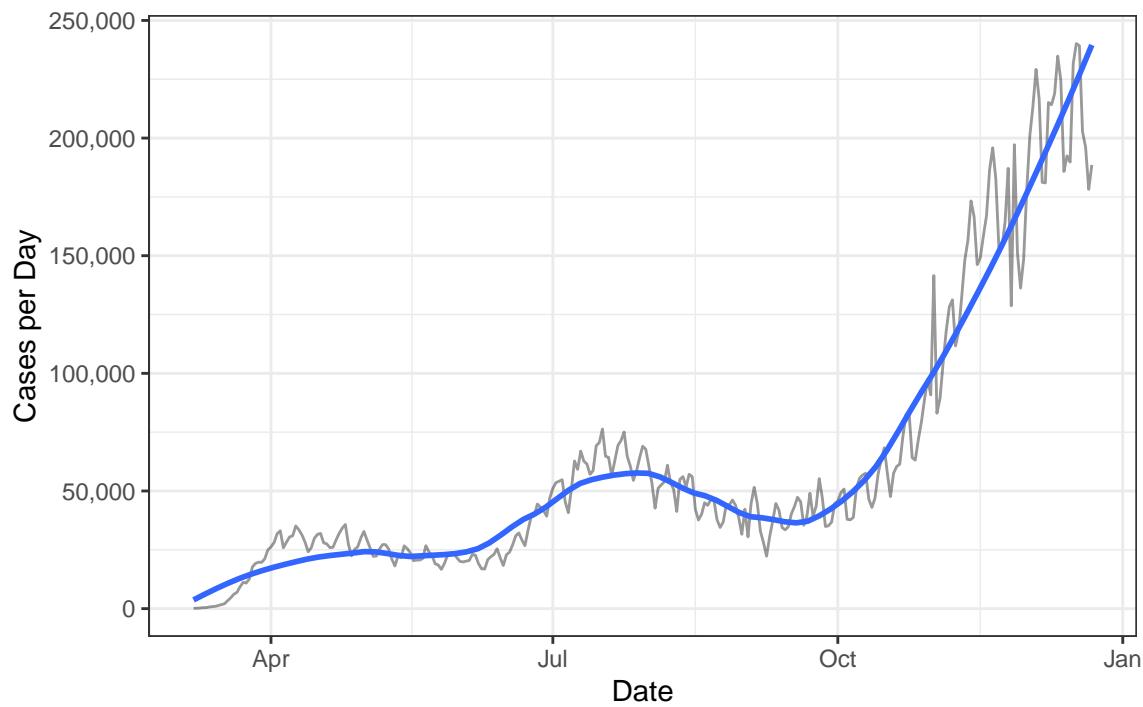
## Cases

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

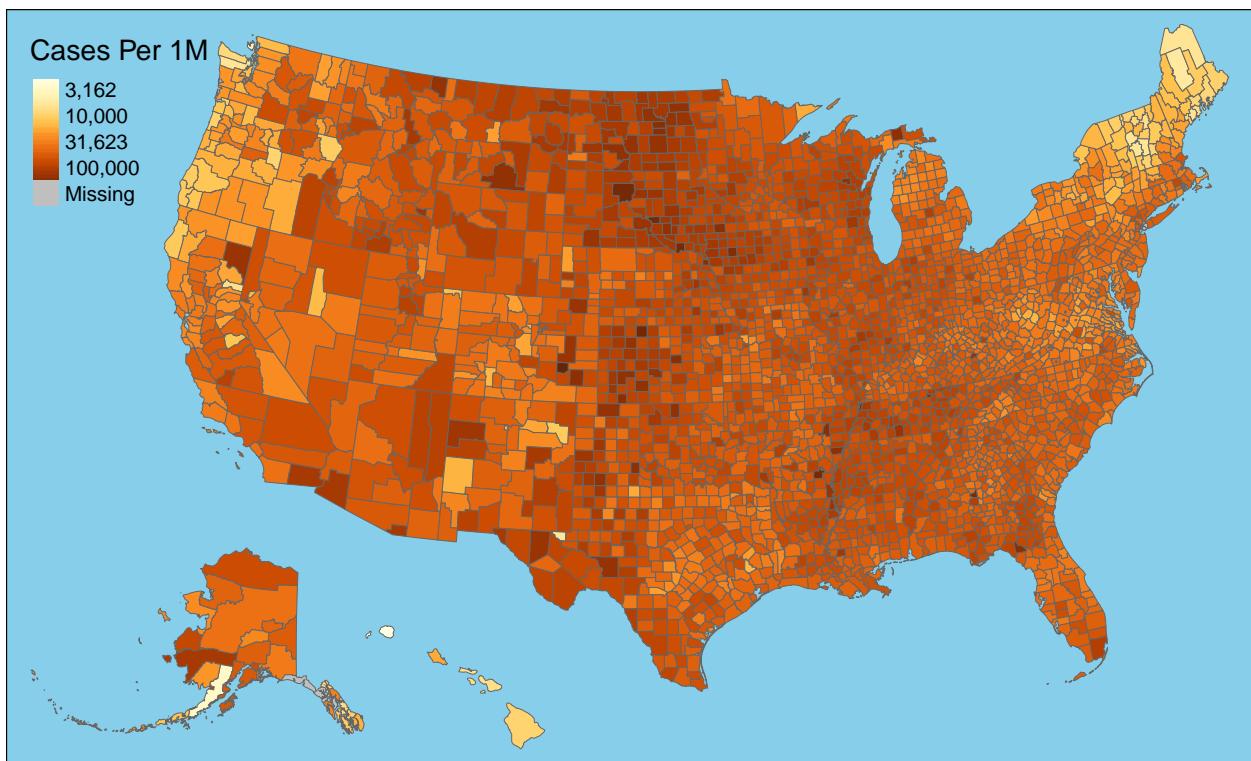
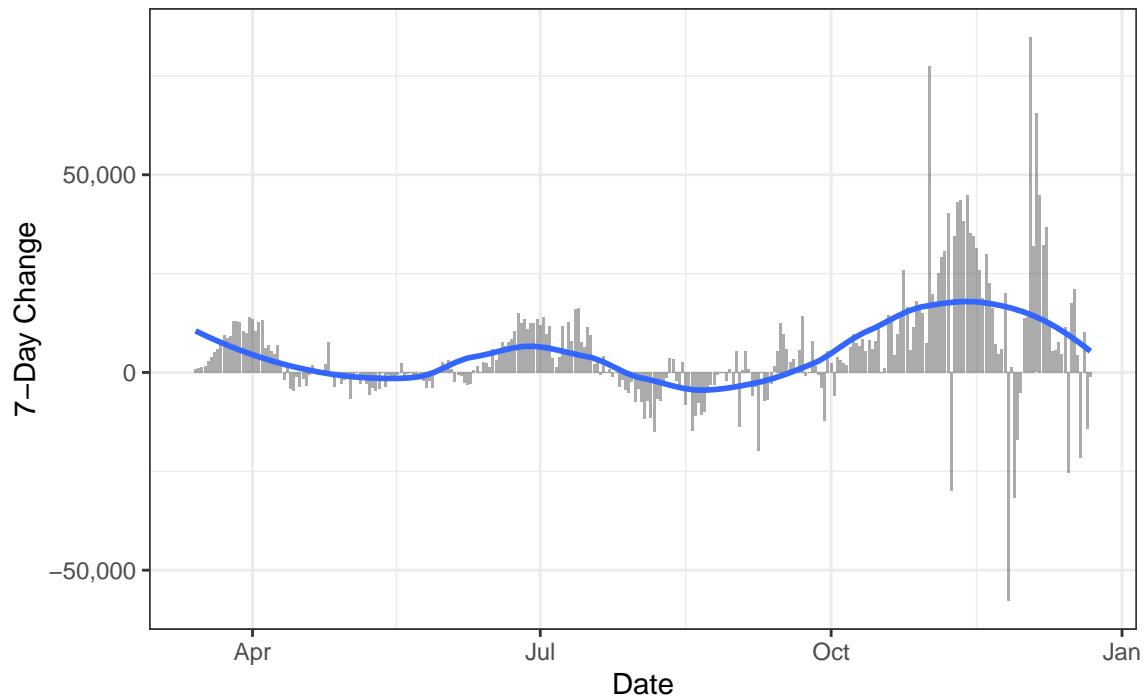
### Active Cases



### New Cases

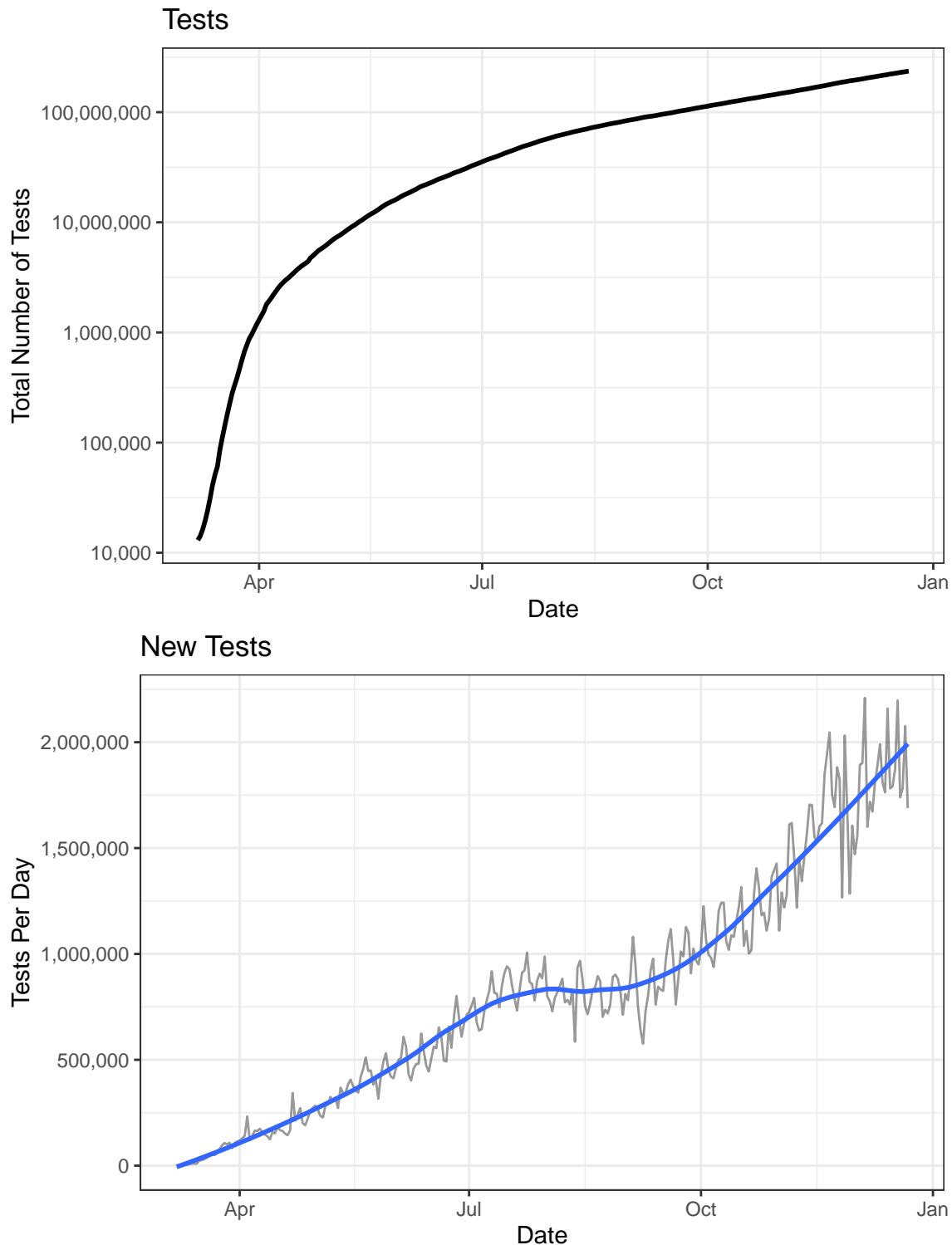


## One-Week Change in Daily Cases

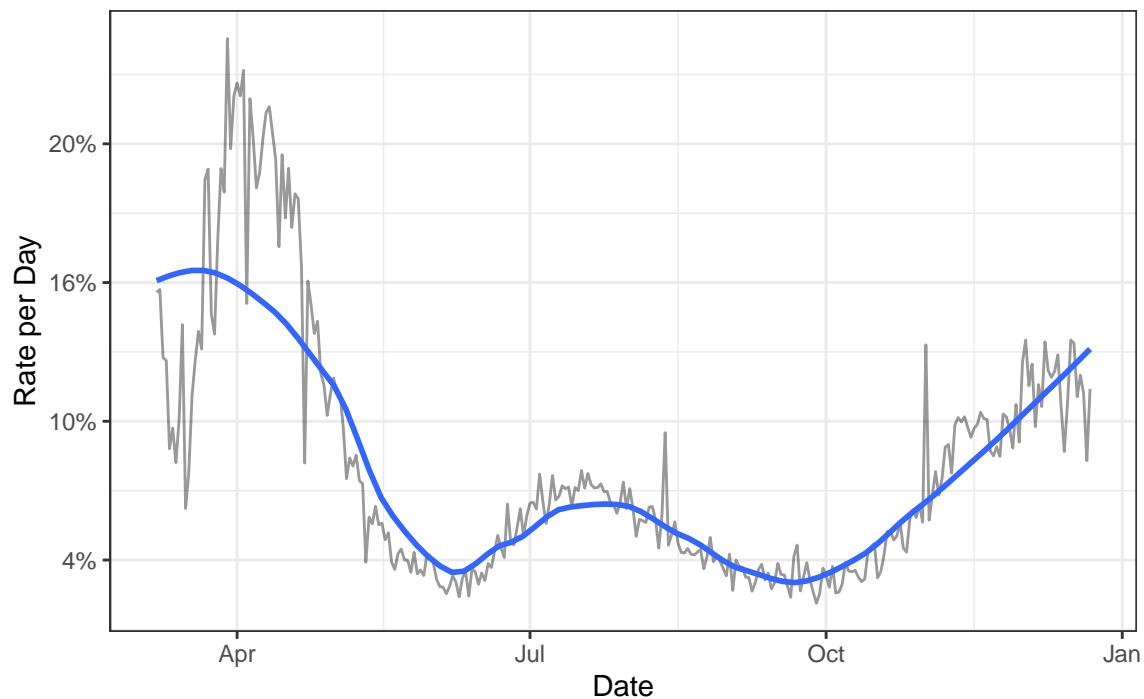


## Testing

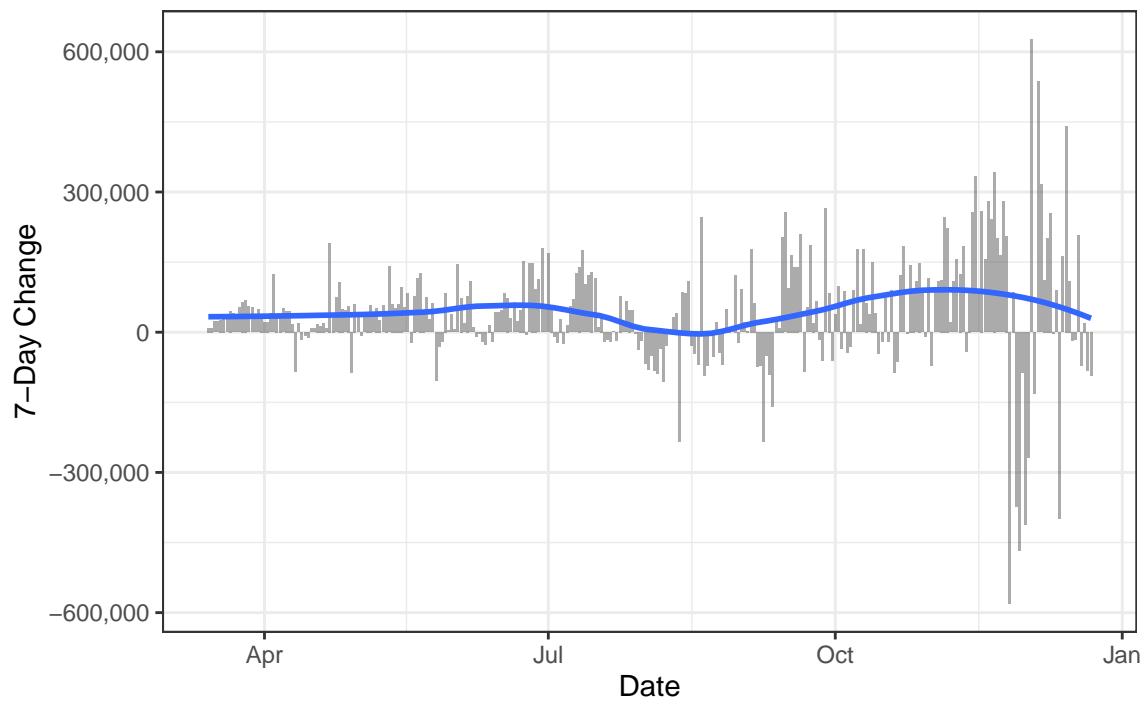
Widespread testing is necessary for managing the spread of the disease. The following charts show how testing in the United States has changed over time. When the supply of available tests is limited, they are typically only used for patients whose symptoms suggest they are likely to have contracted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



### Positive Test Rate



### One-Week Change in Daily Tests

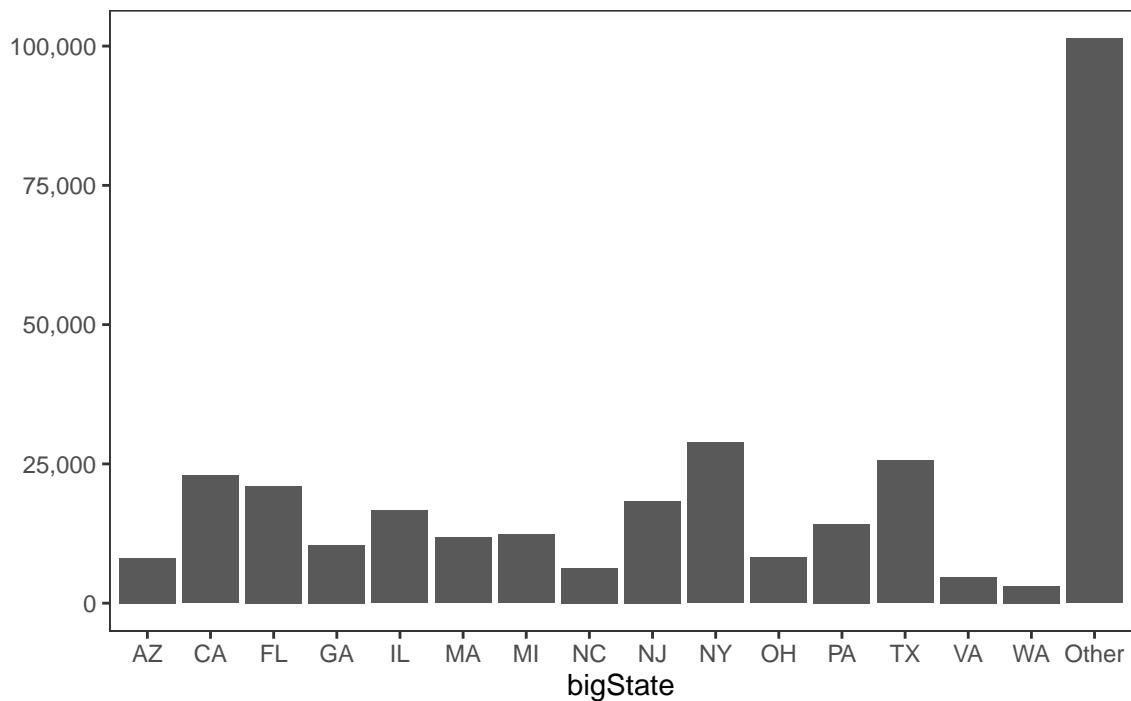


## State Data

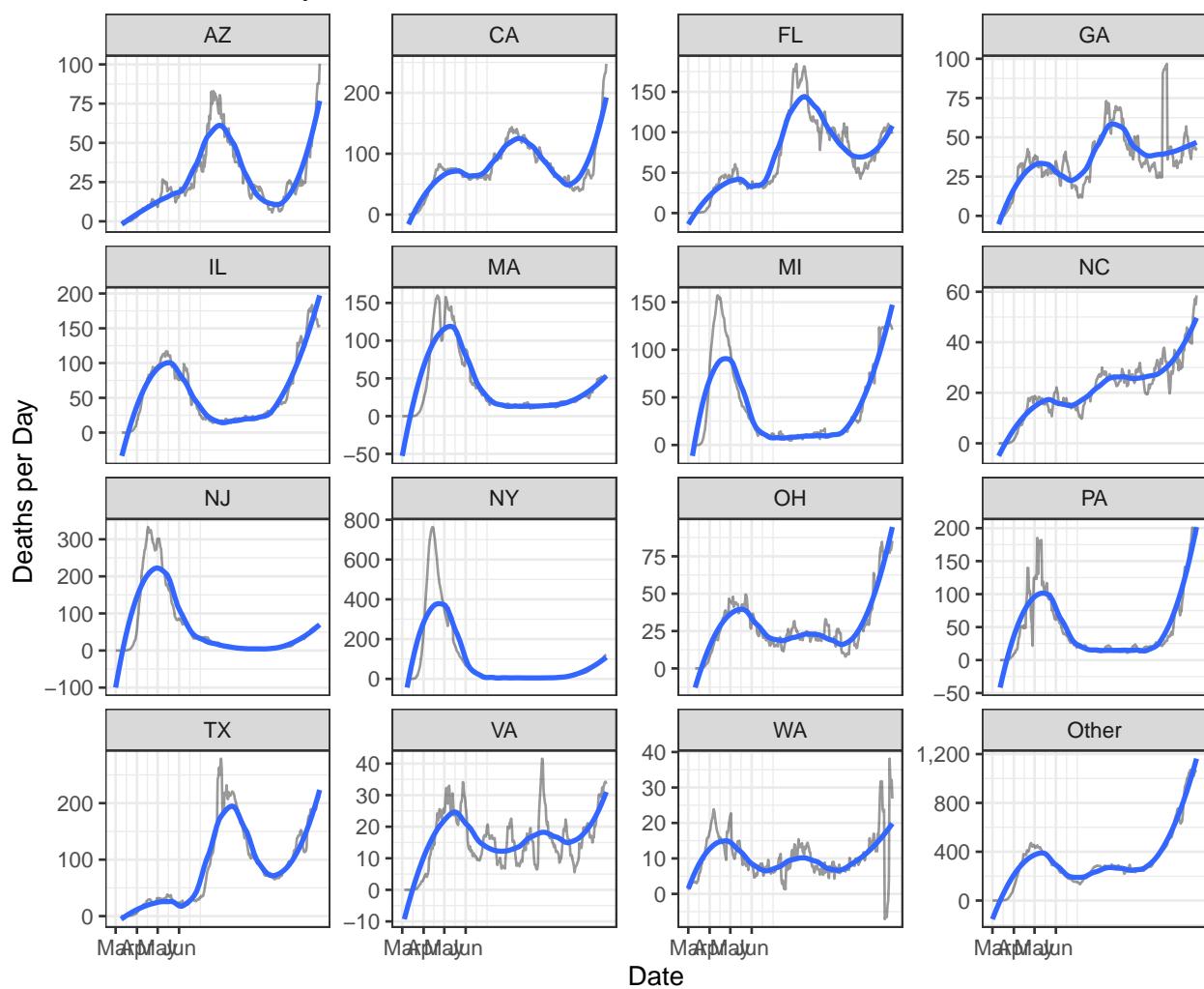
This section summarizes state-level data. Most data are reported for the largest 15 states by population, which account for NaN percent of the total U.S. population.

### Deaths

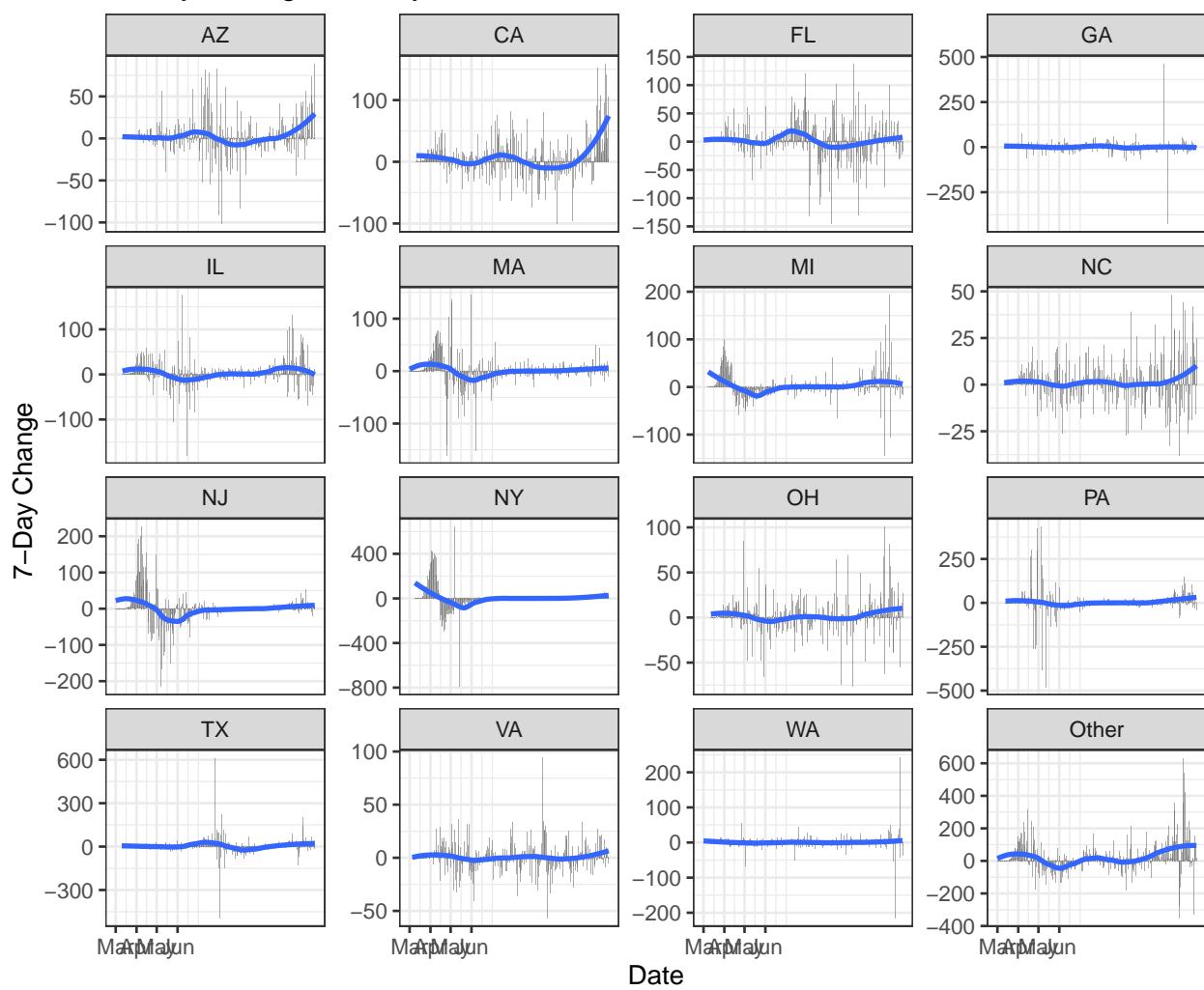
Deaths by State

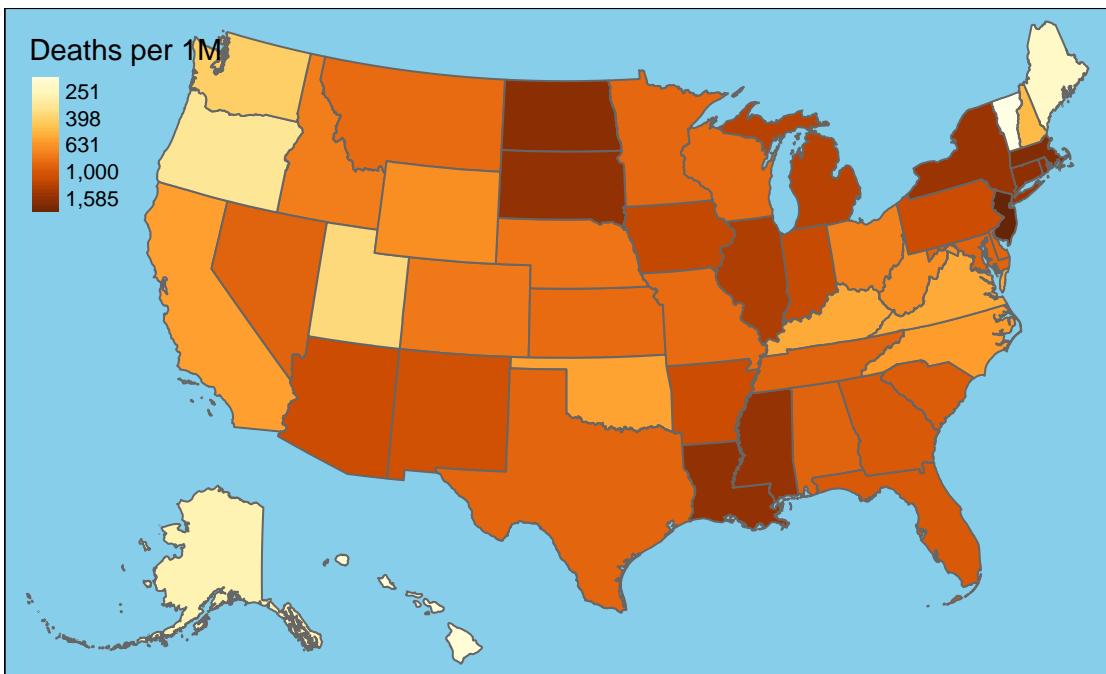
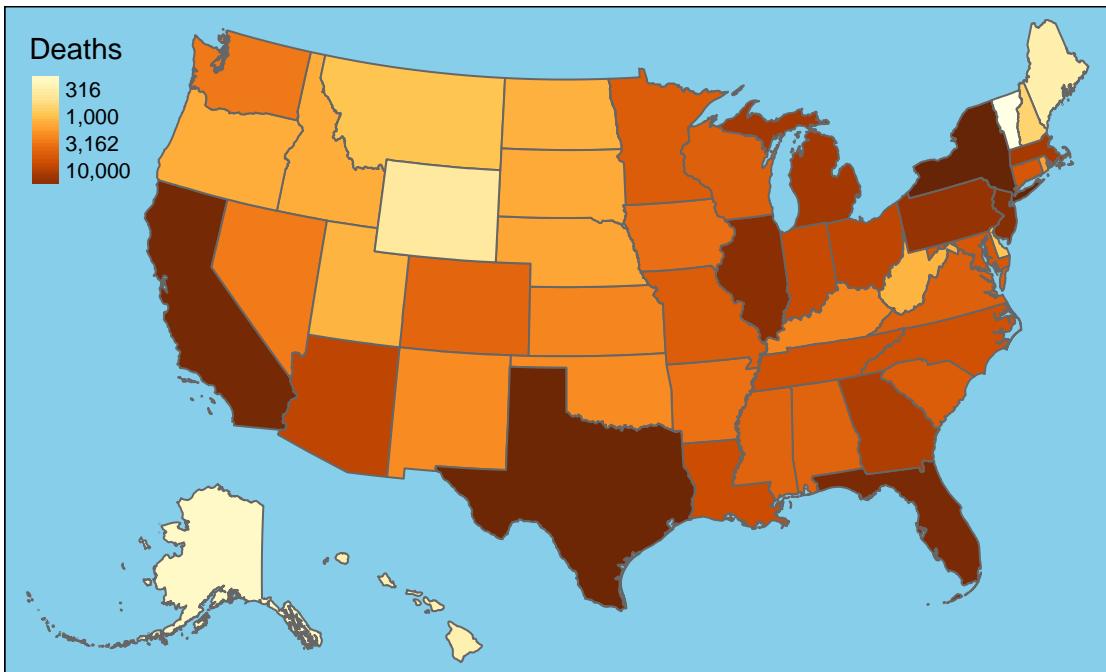


## New Deaths by State



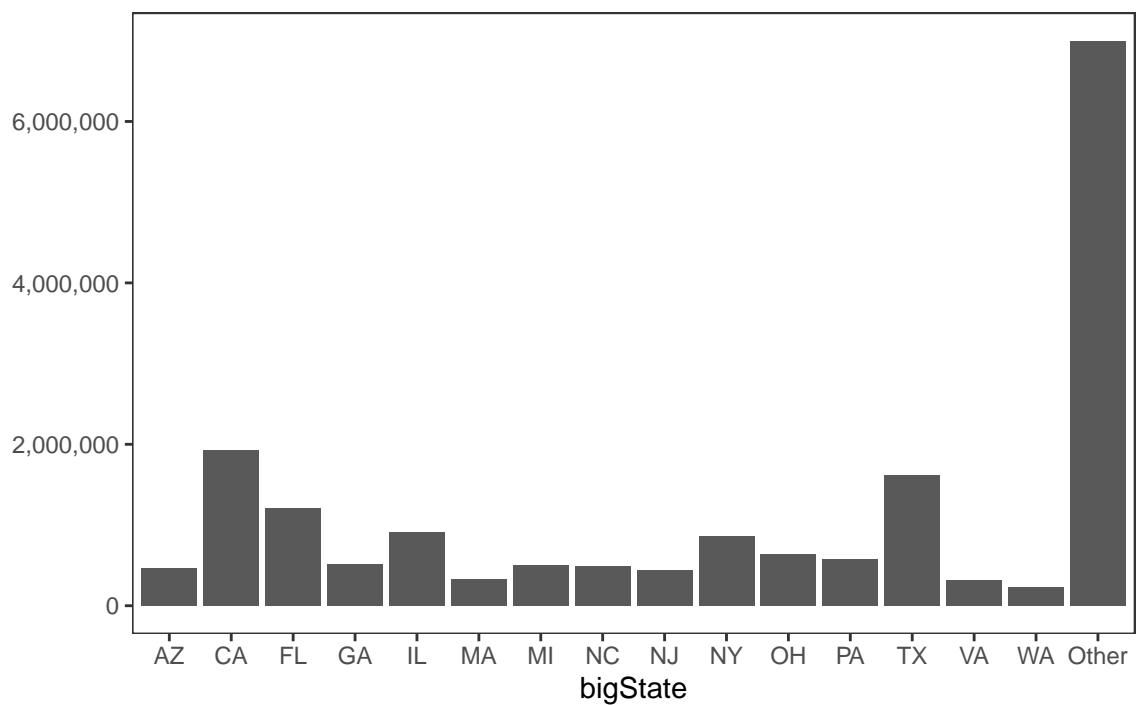
### 7-Day Change in Daily Deaths



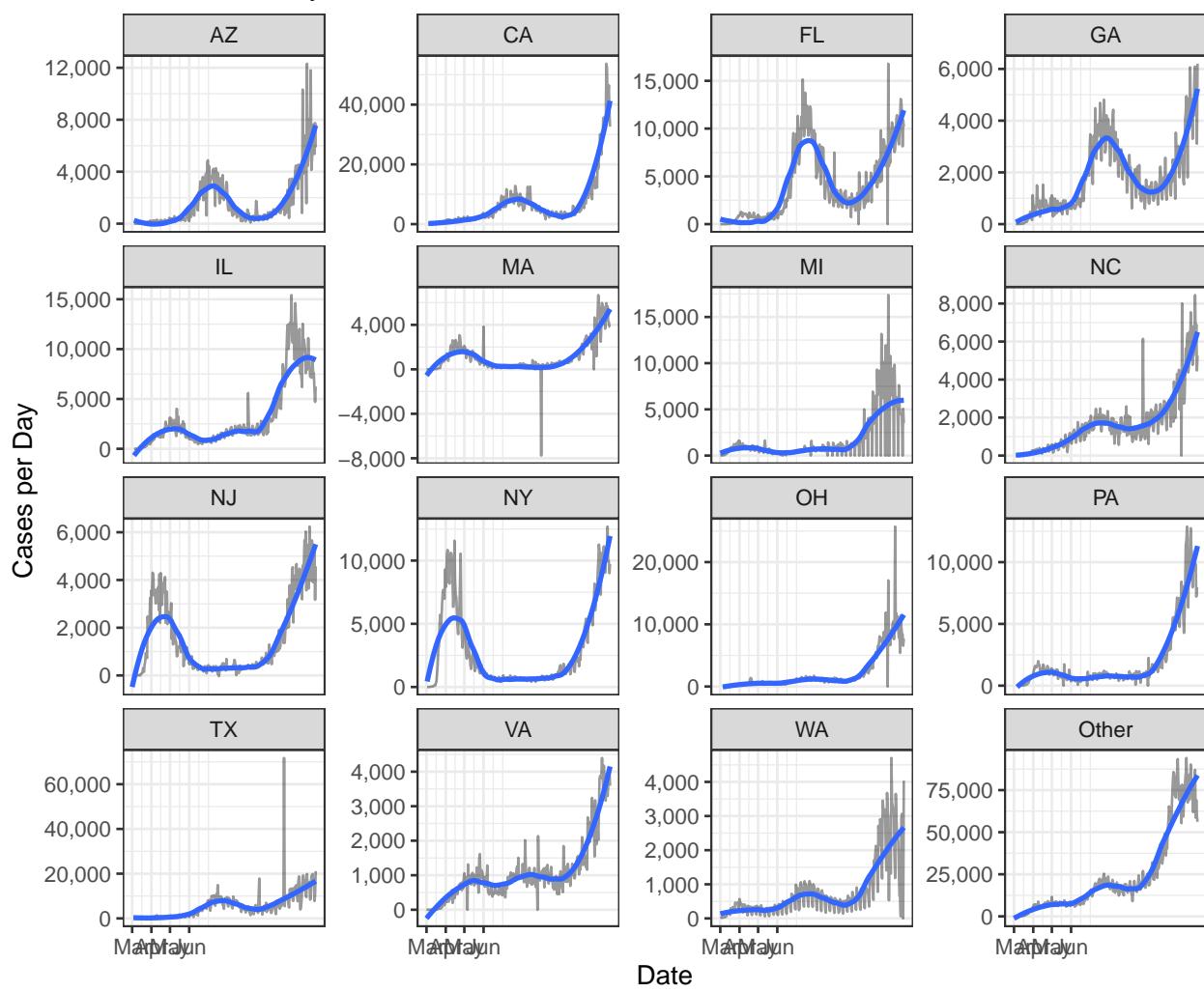


Cases

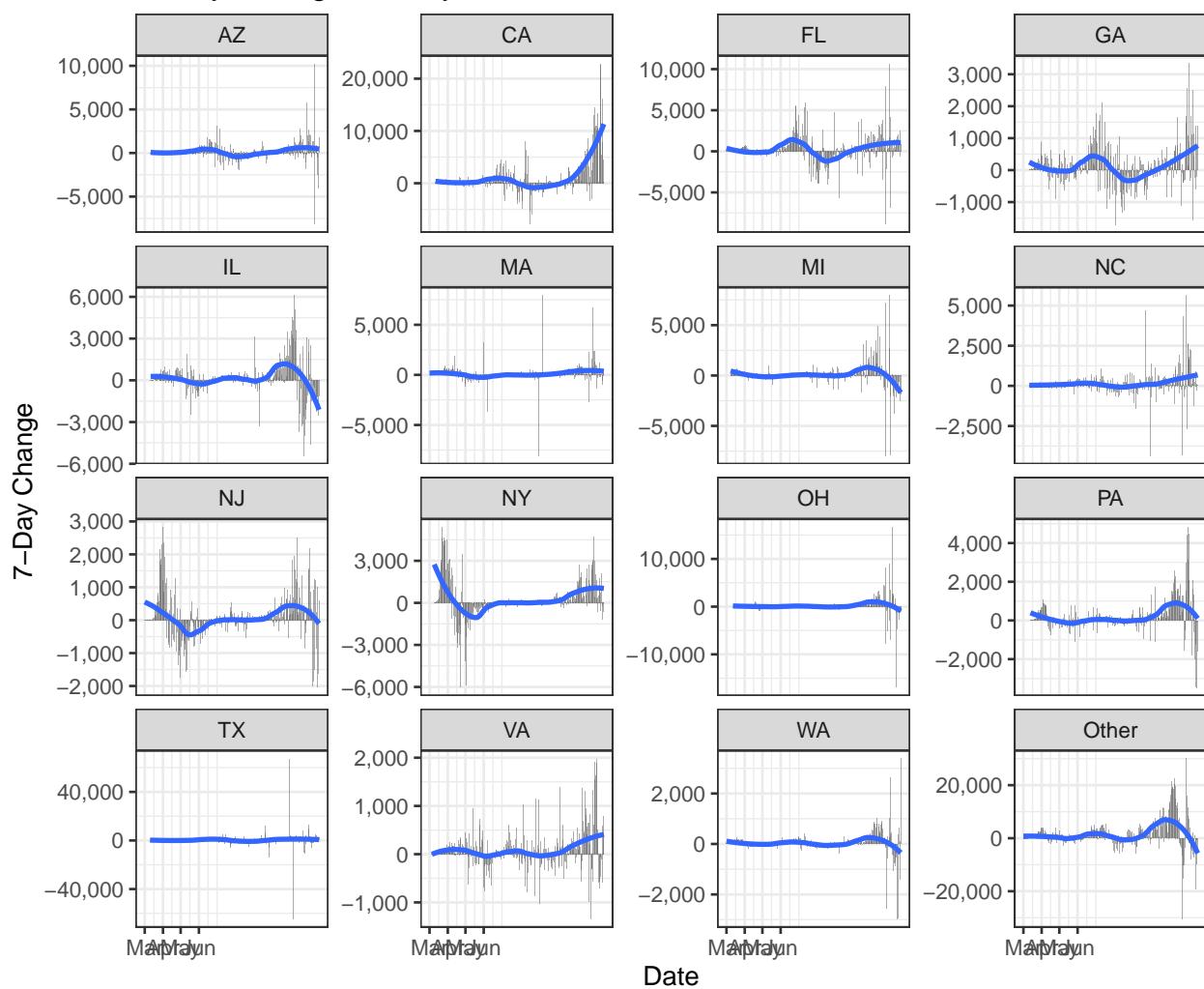
Cases by State

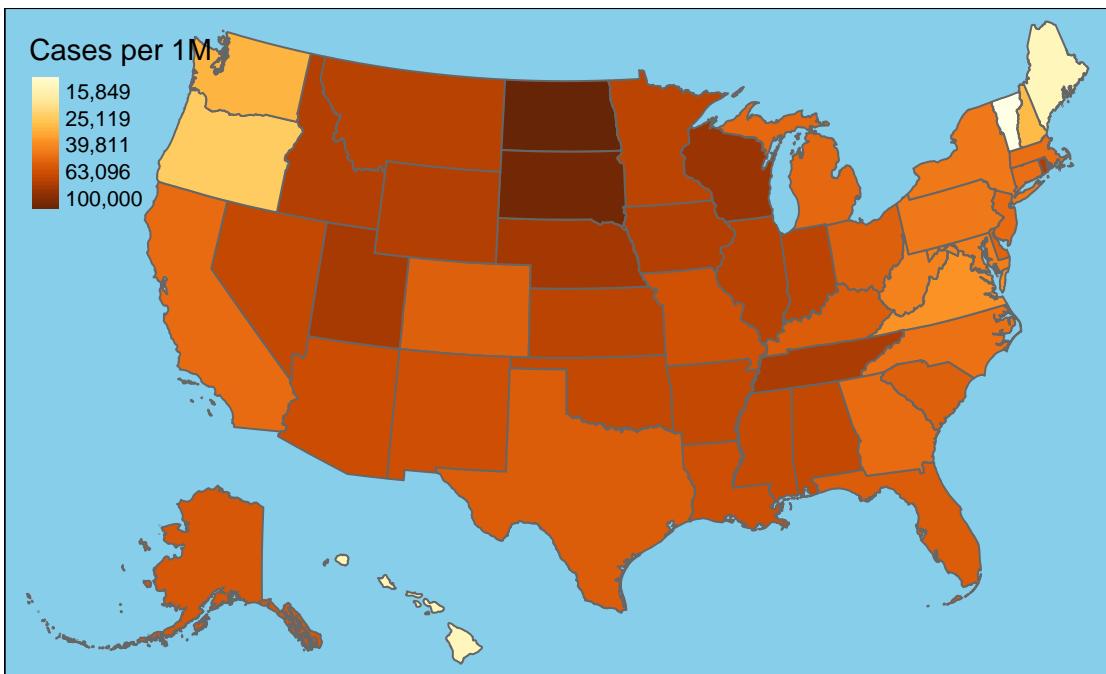
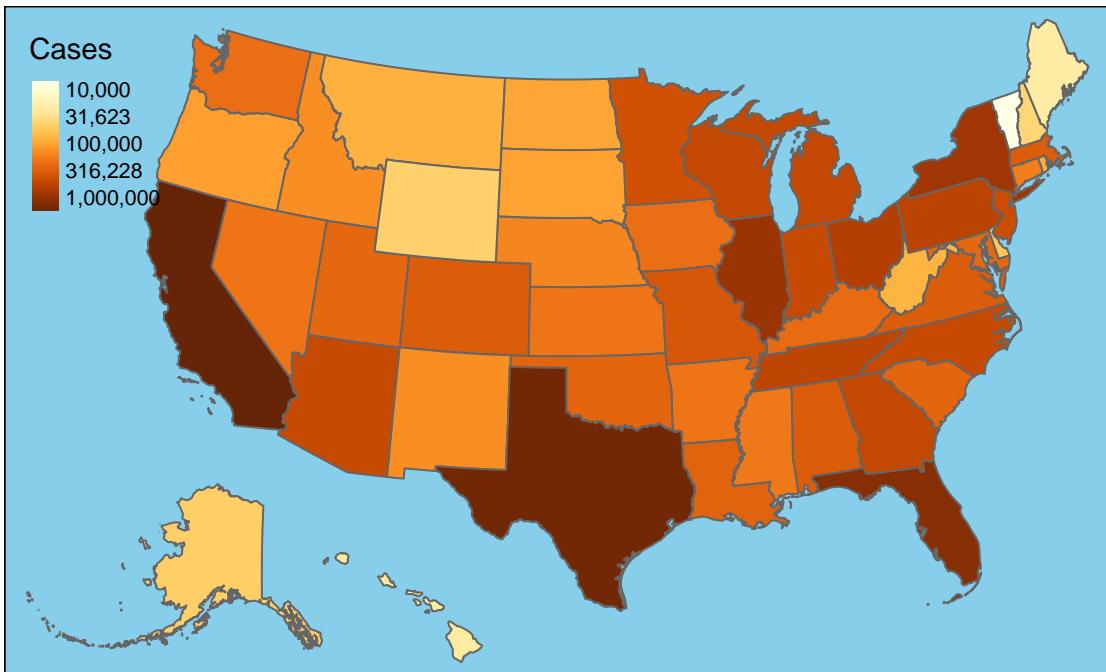


## New Cases by State

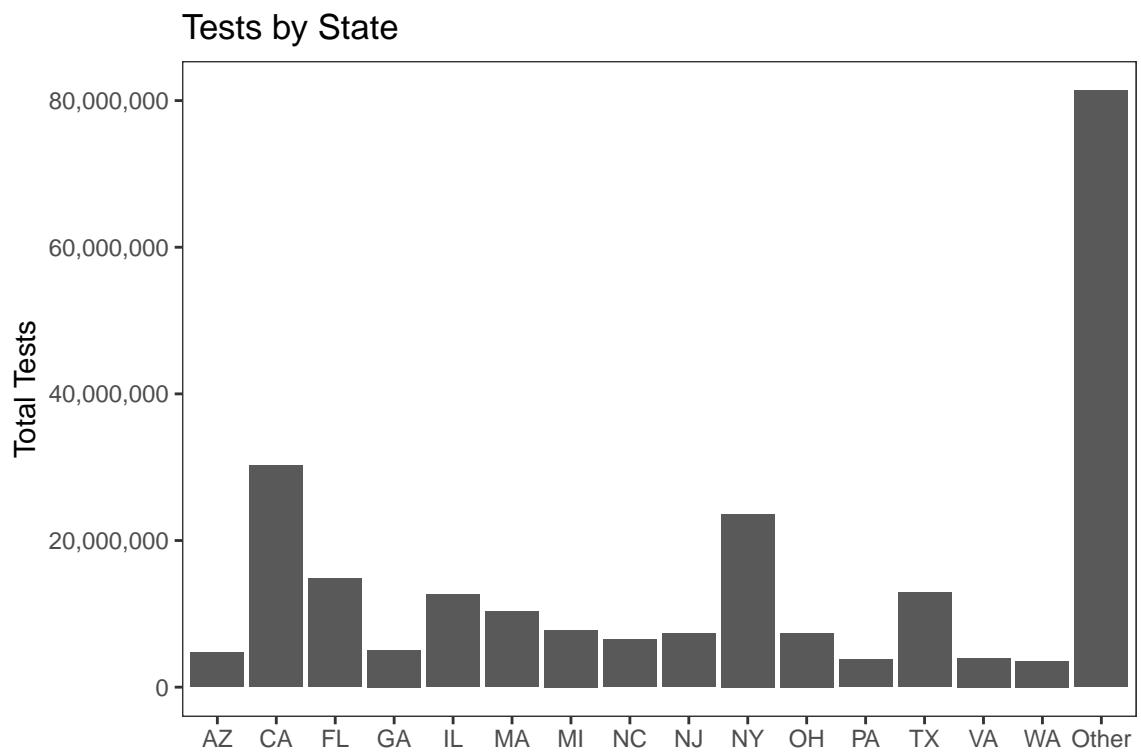


### 7-Day Change in Daily Cases

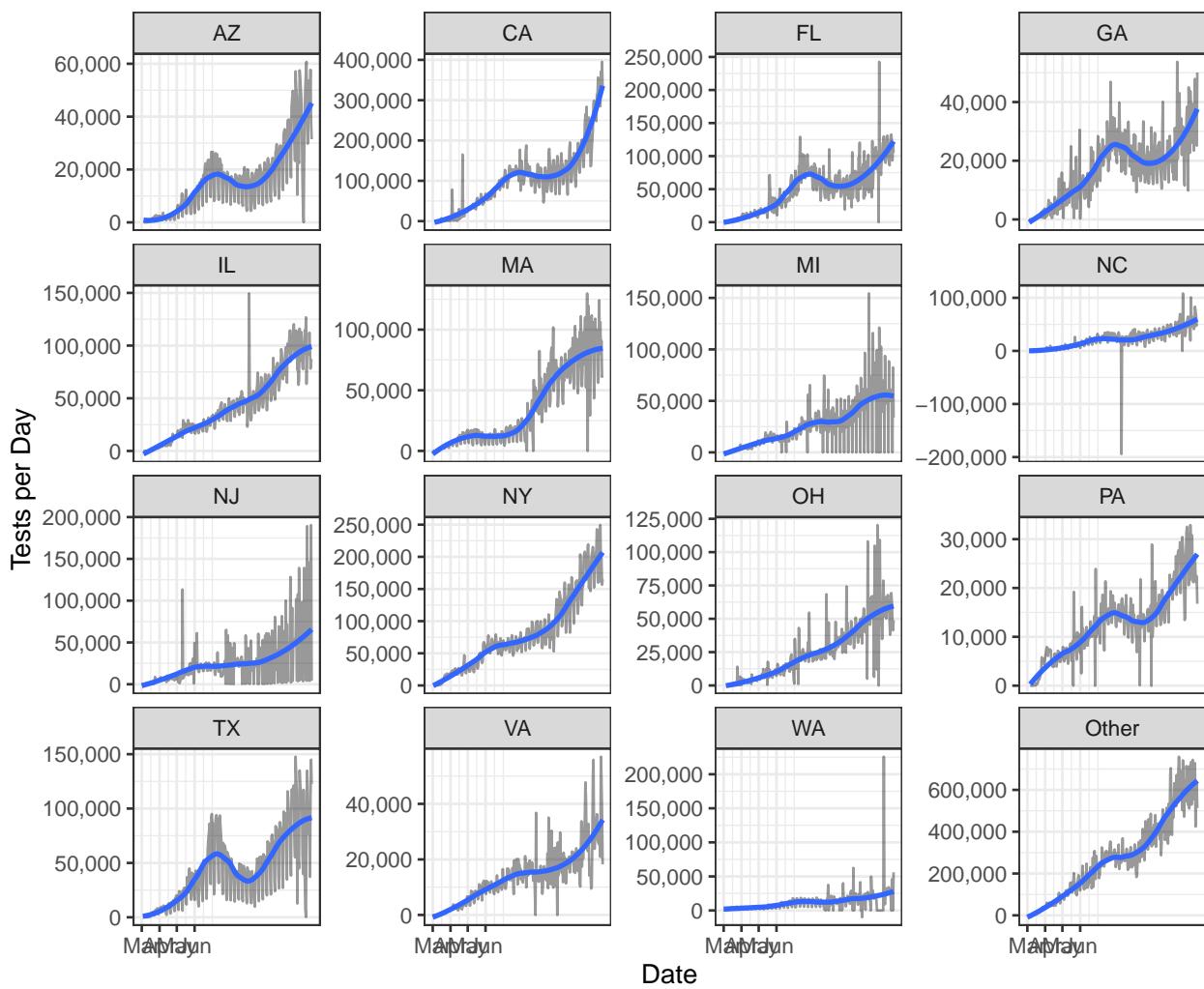


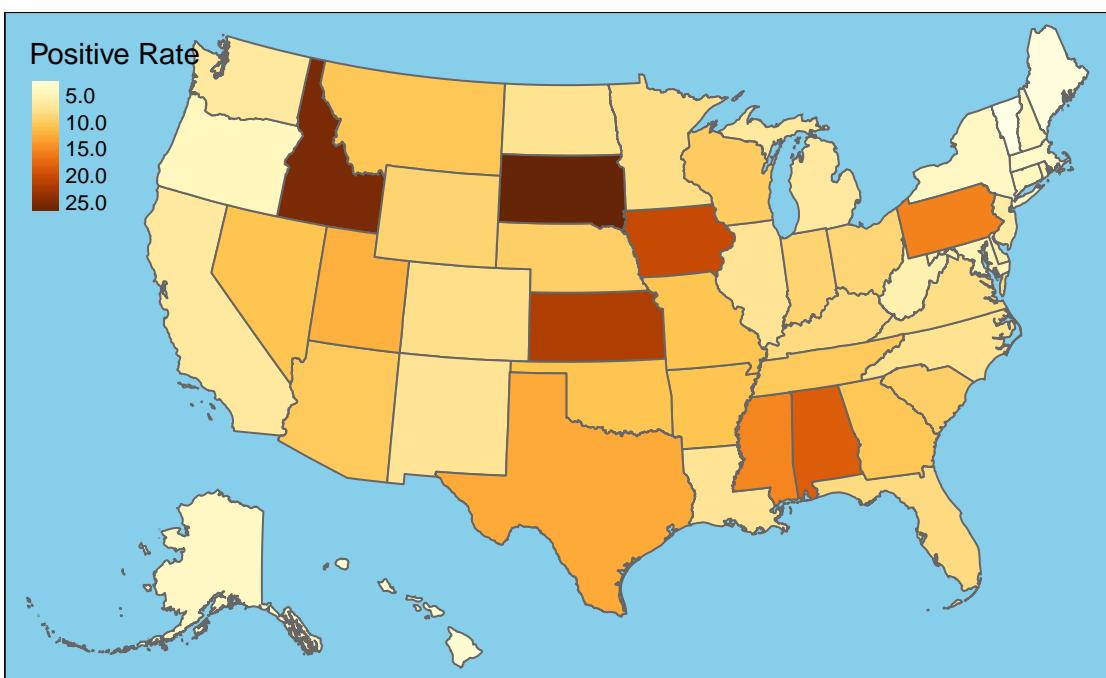
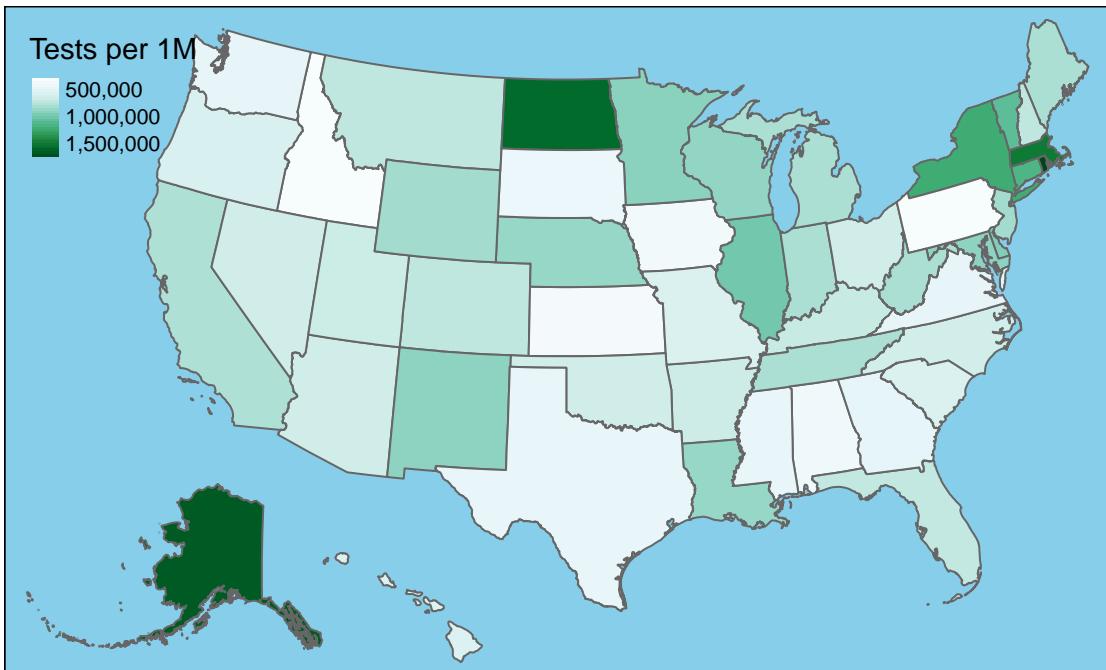


## Testing



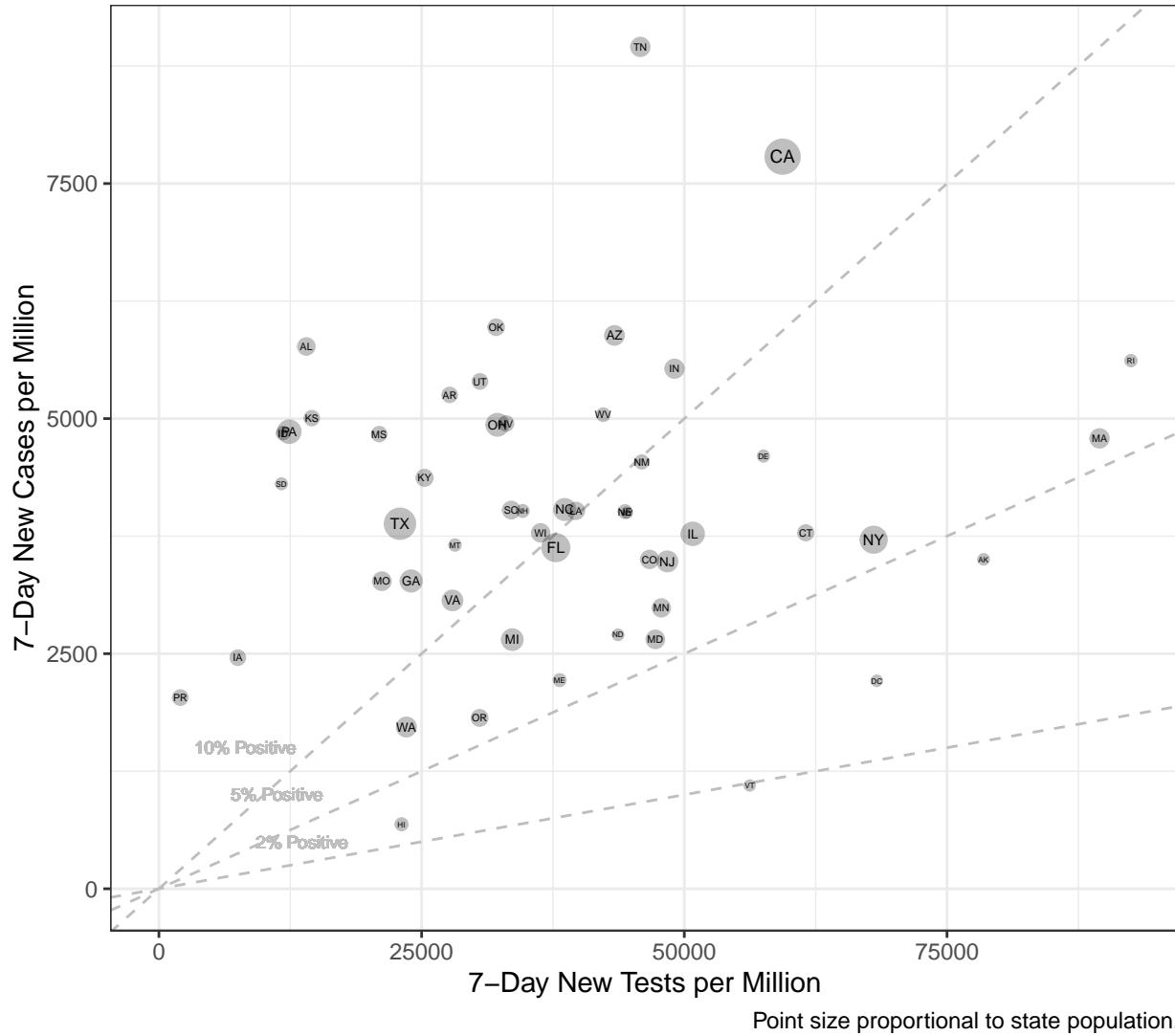
## New Tests by State





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



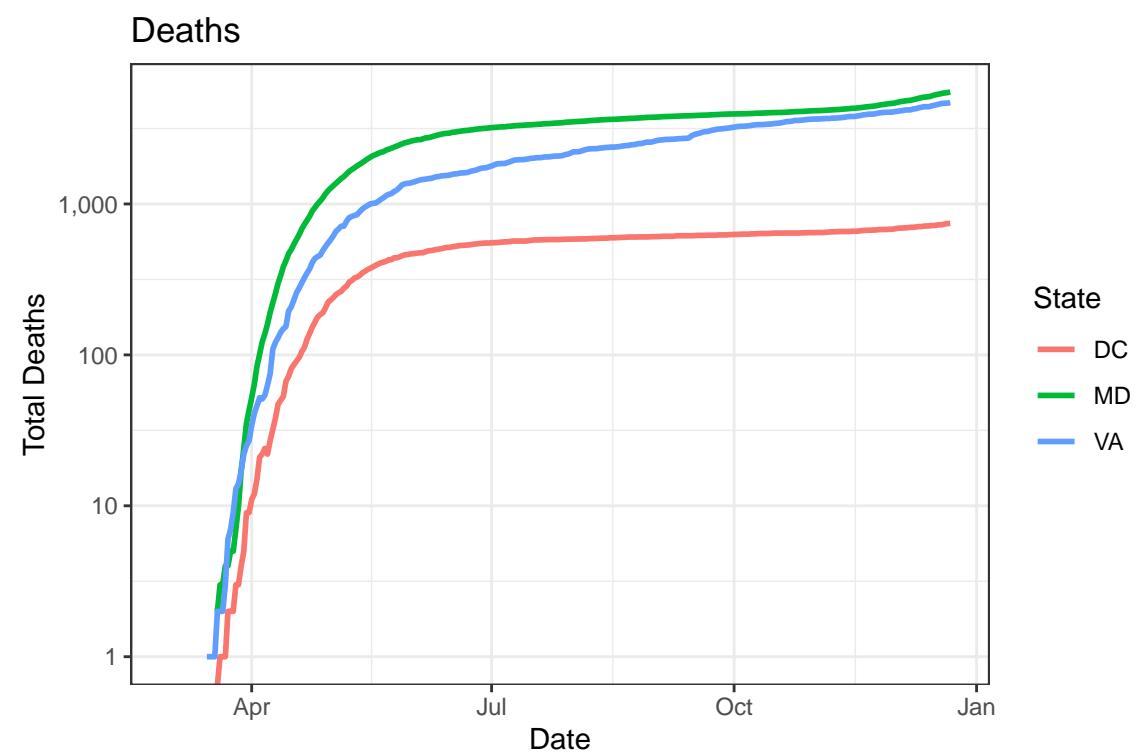
## Local Data

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

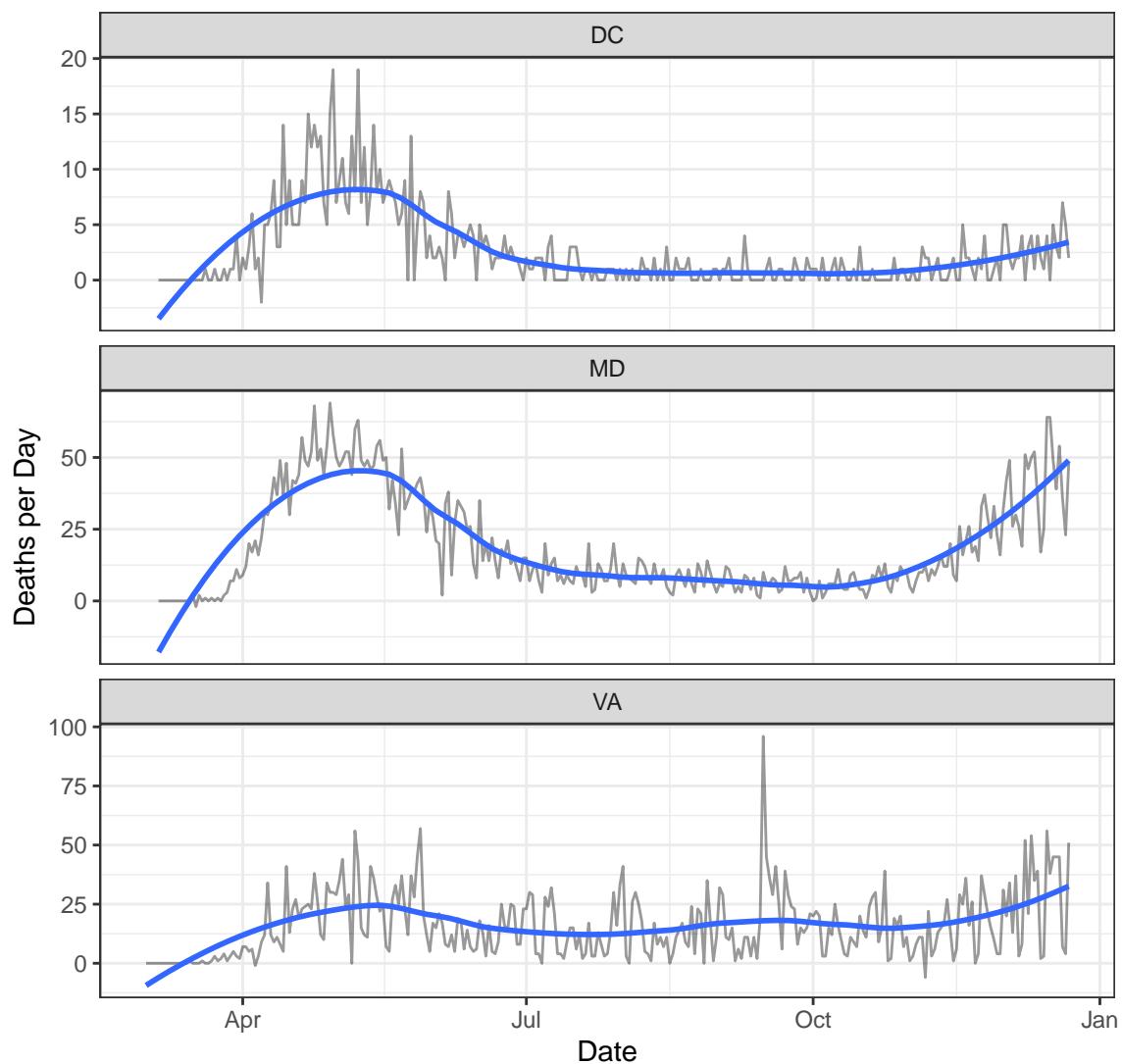
Table 3: Latest Local Data

State	Cases	Deaths	New Cases	New Deaths
DC	26,900	744	160	2
MD	255,397	5,519	2,324	48
VA	314,481	4,705	3,591	51

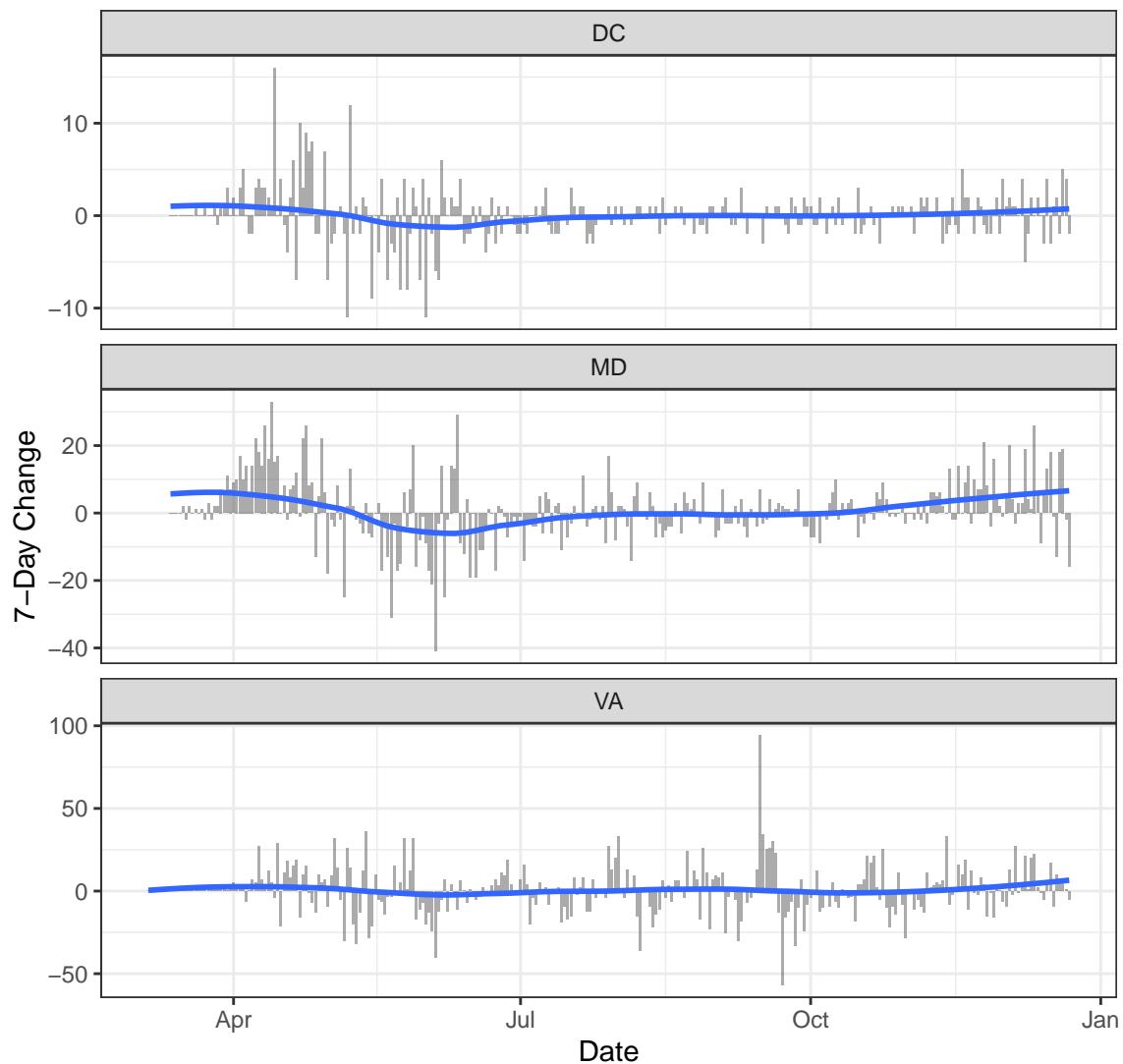
## Deaths

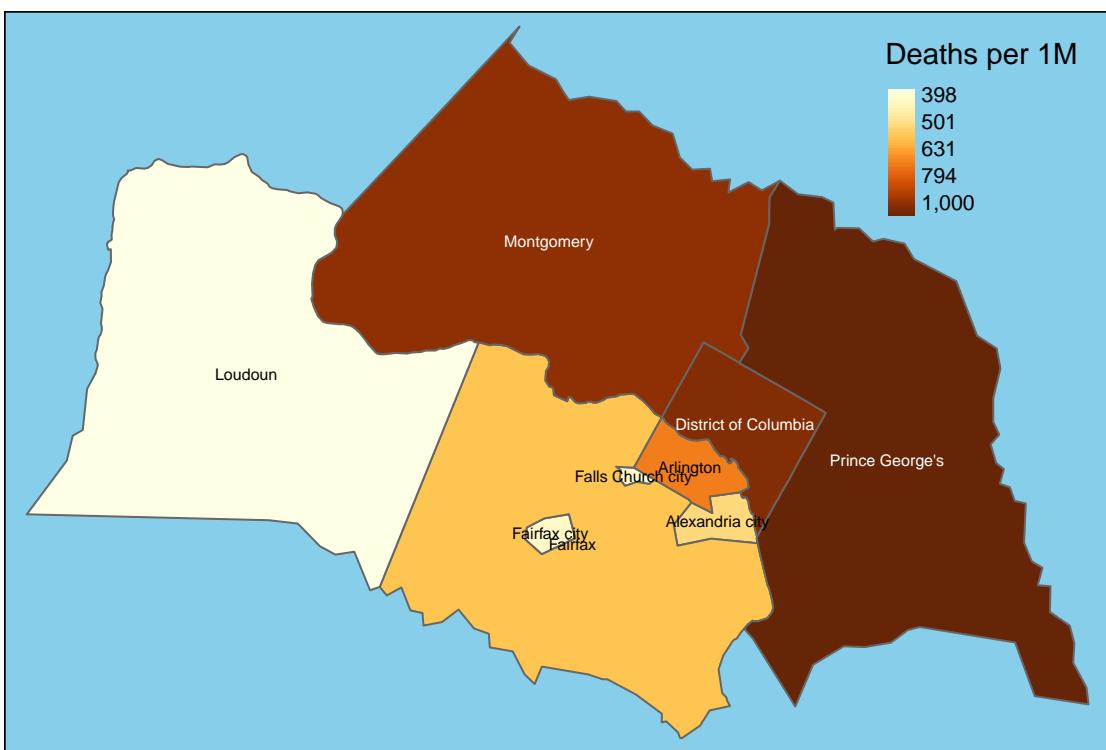
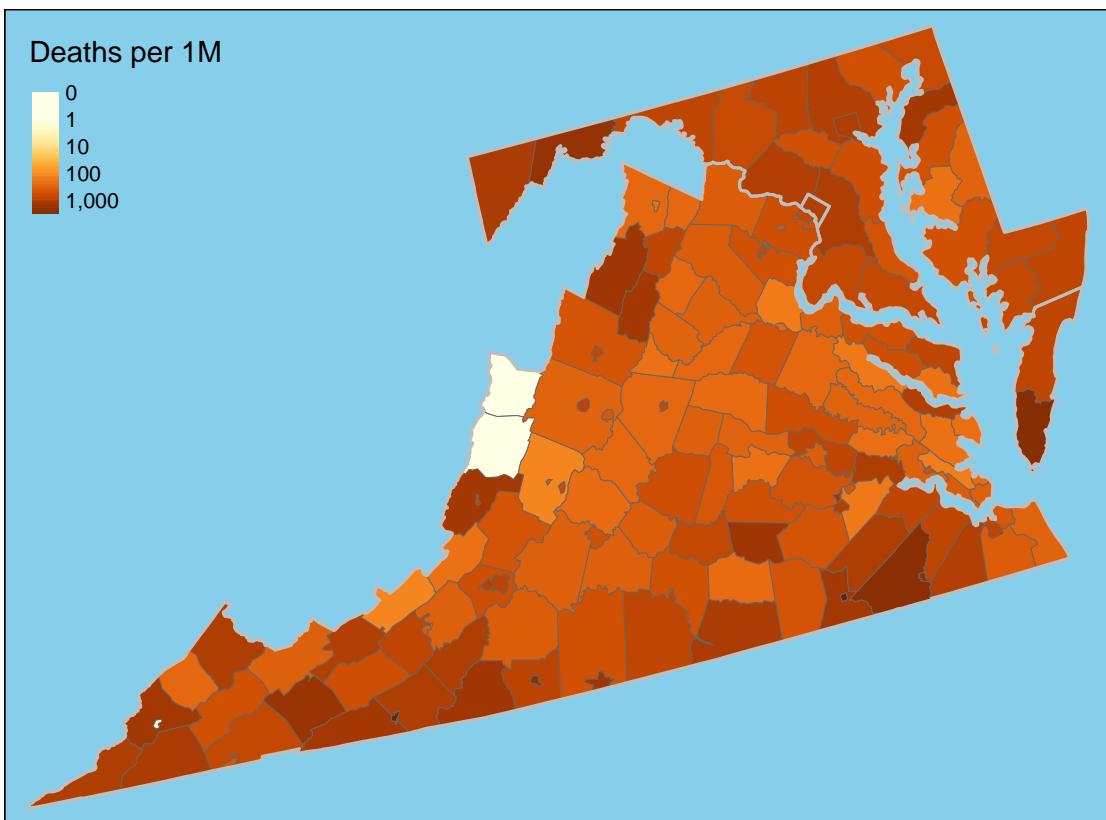


## New Deaths

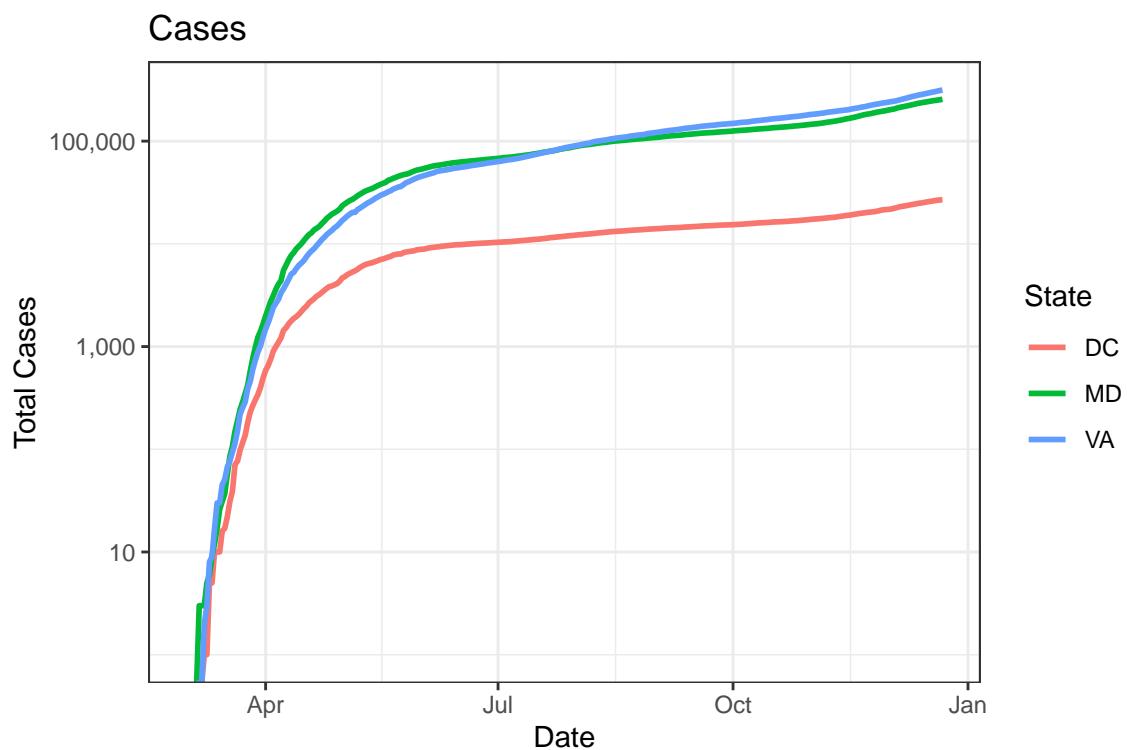


## One-Week Change in Daily Deaths

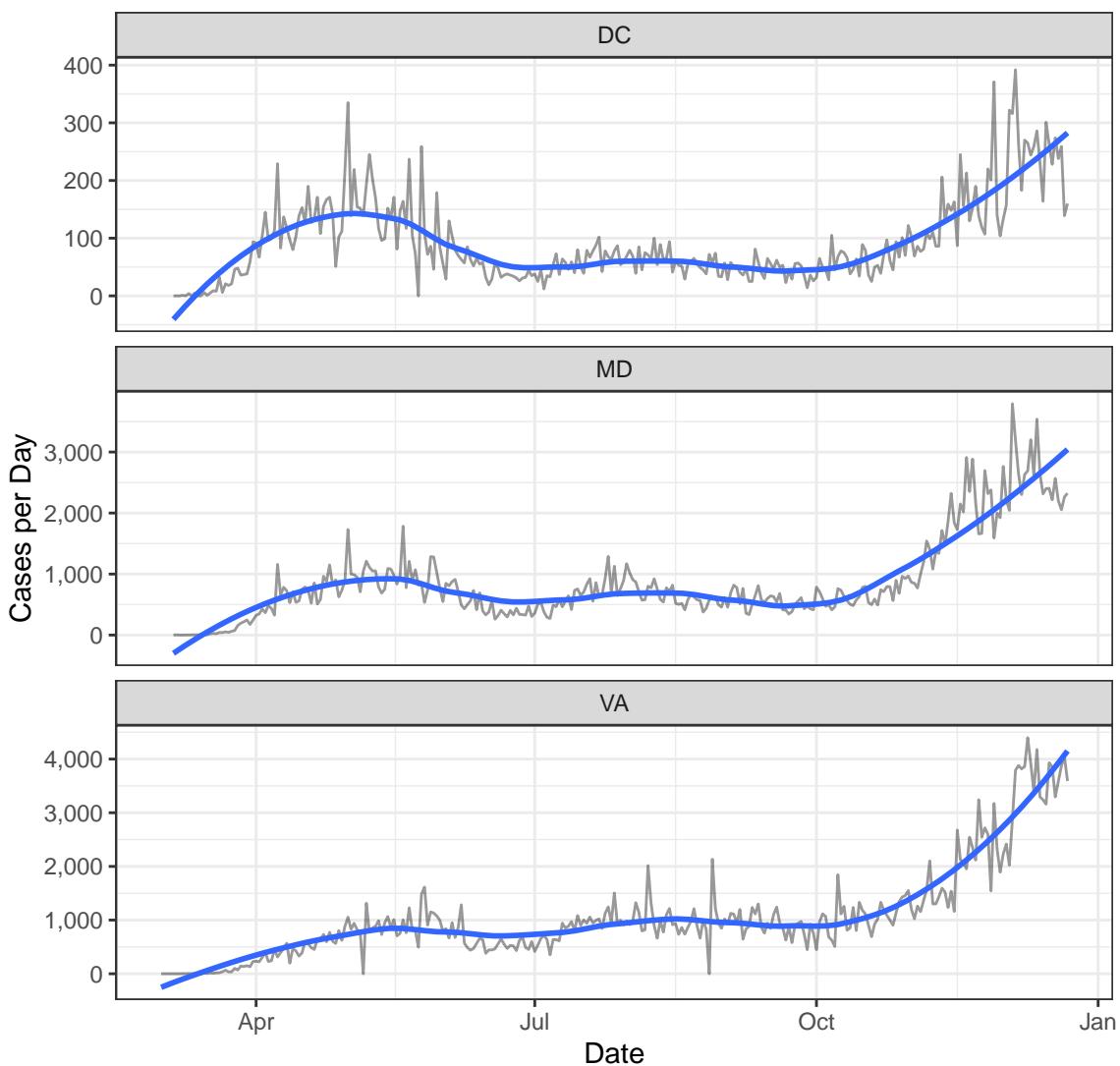




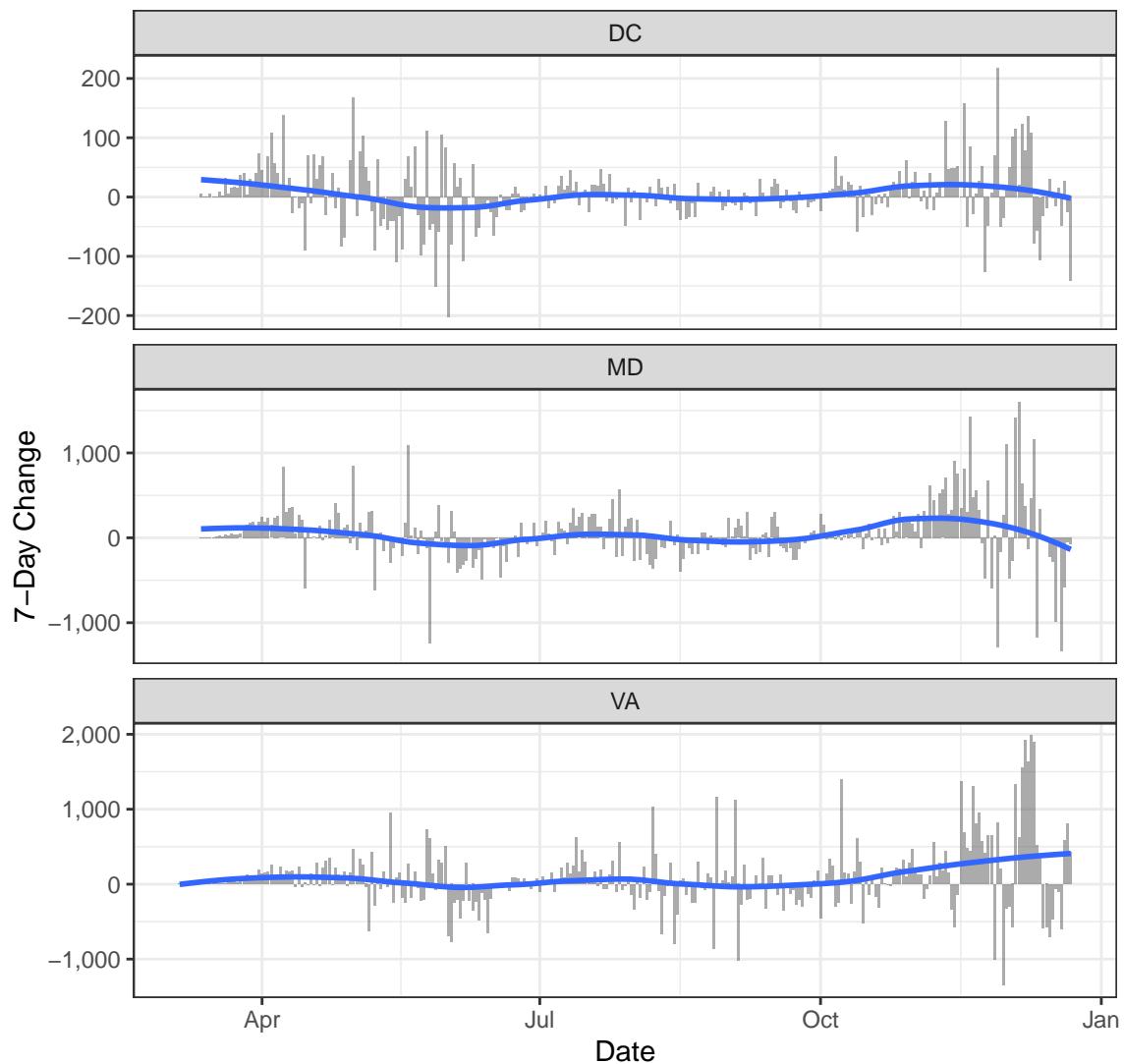
Cases

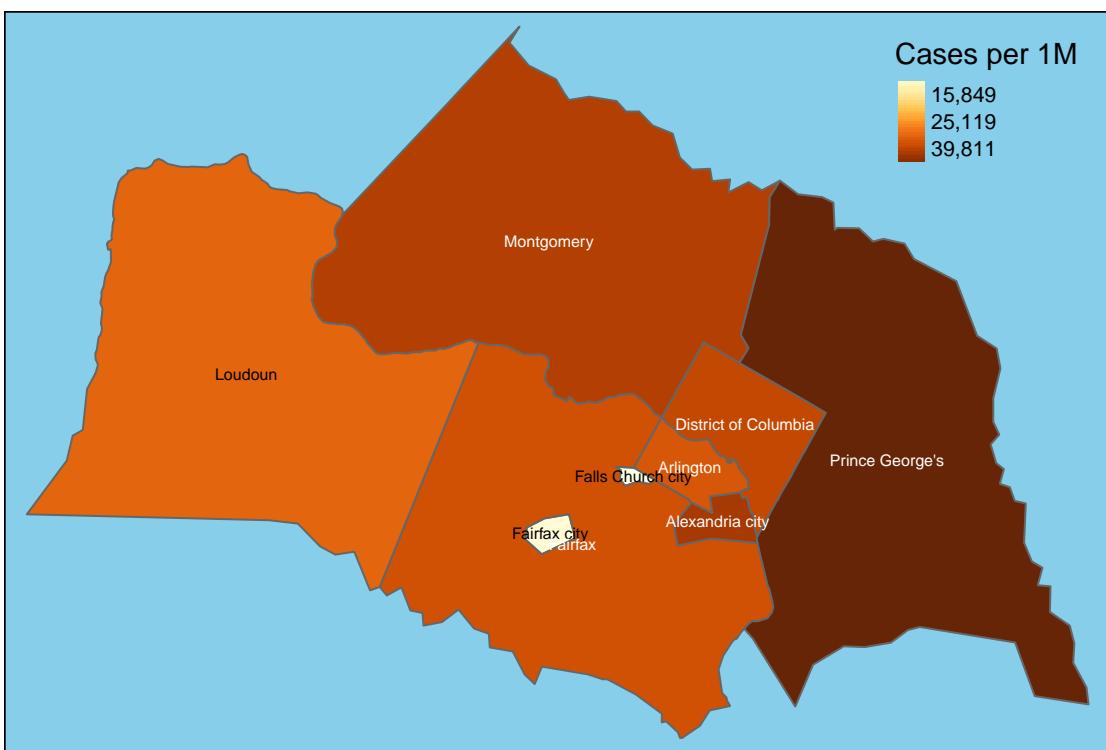
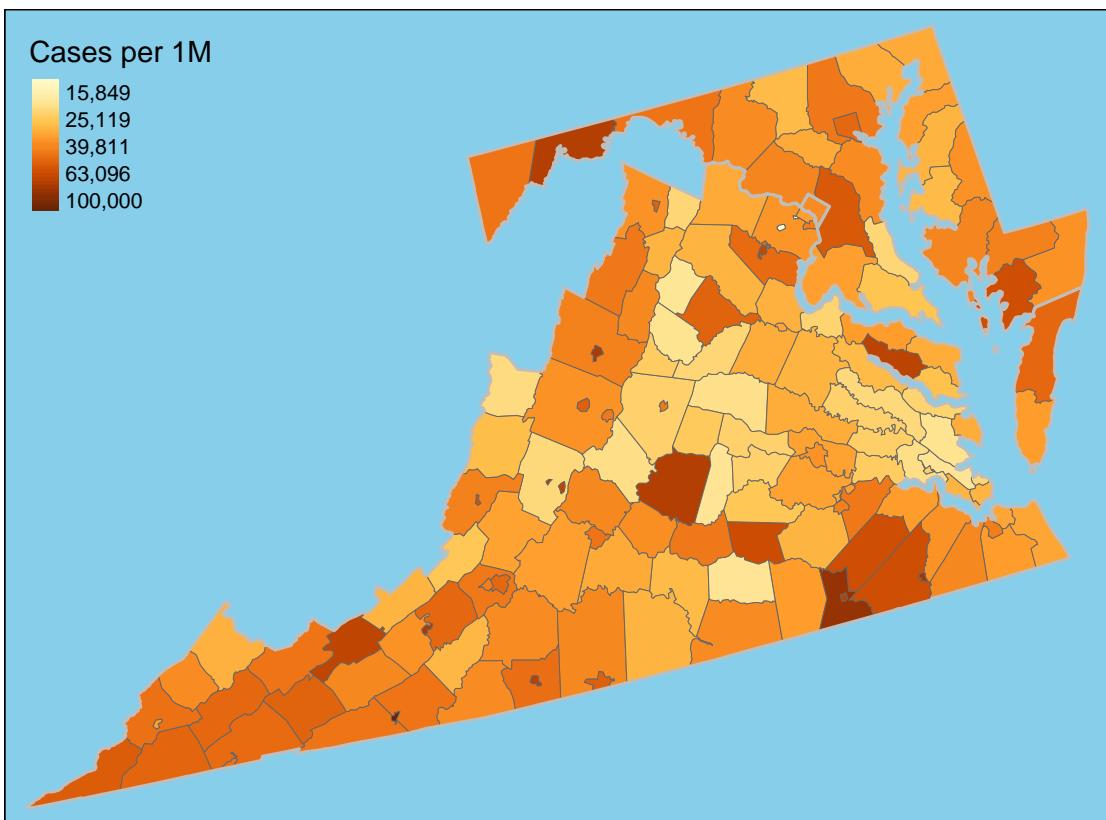


## New Cases

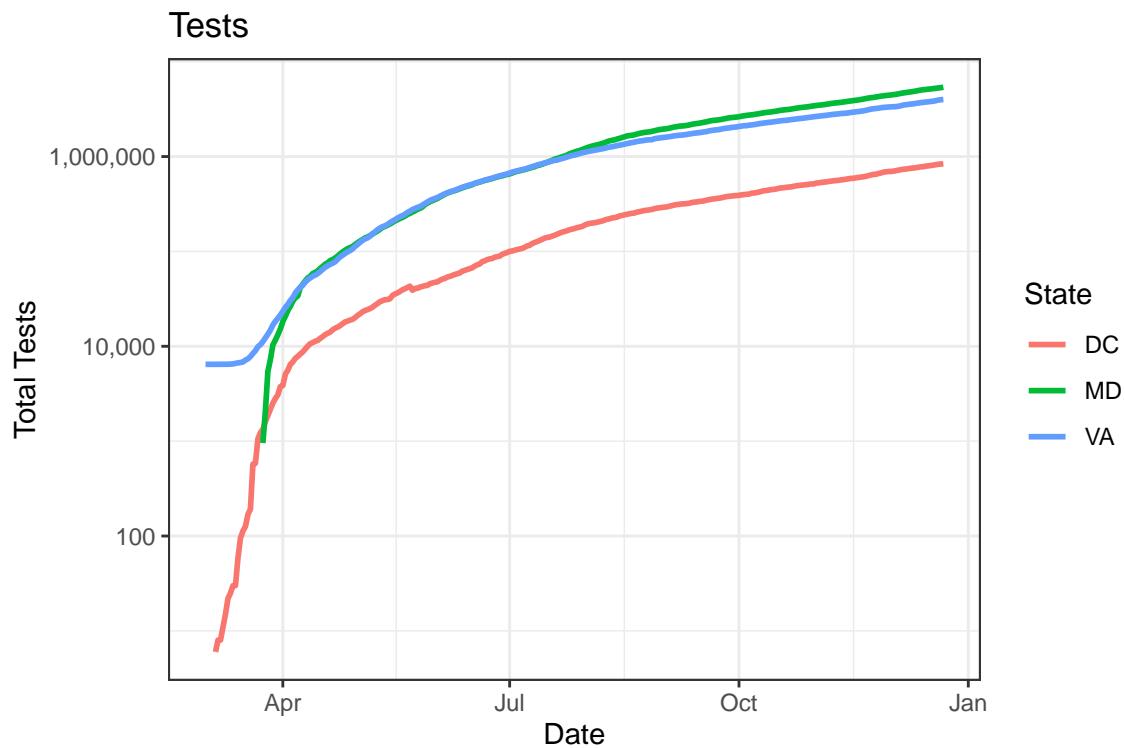


## One-Week Change in Daily Cases

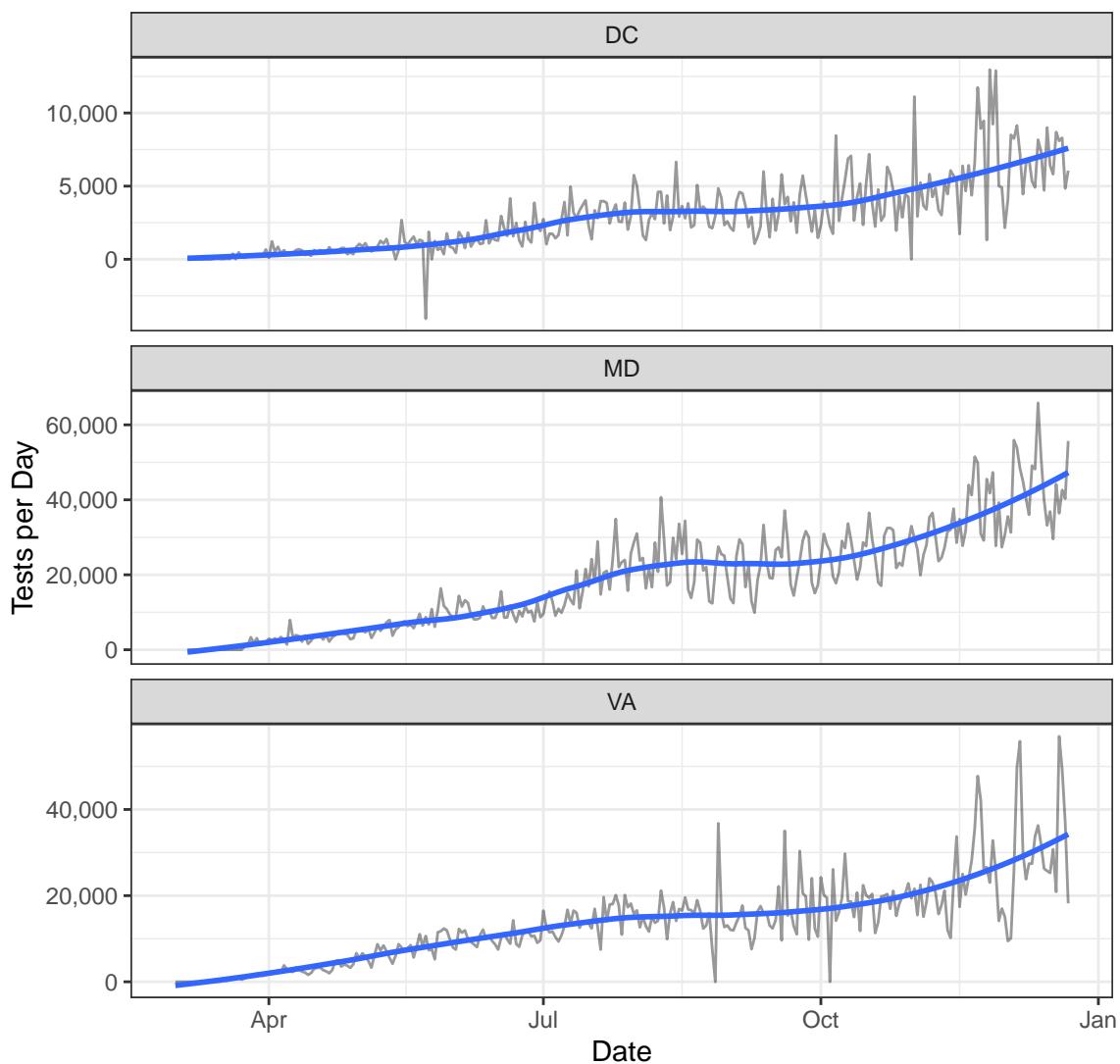




## Testing



## New Tests



## Positive Test Rate

