

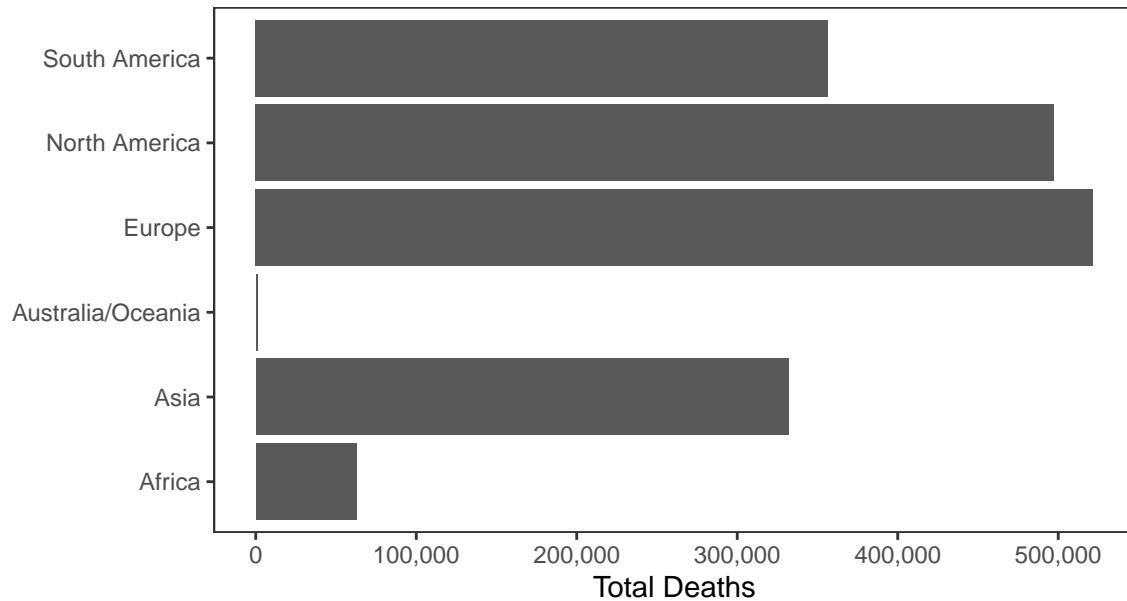
Erik's Covid-19 Chart Pack

Data updated 2020-12-28 19:00:16. 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 81,174,411 confirmed Covid-19 cases and 1,771,871 deaths worldwide.

Deaths



Cases

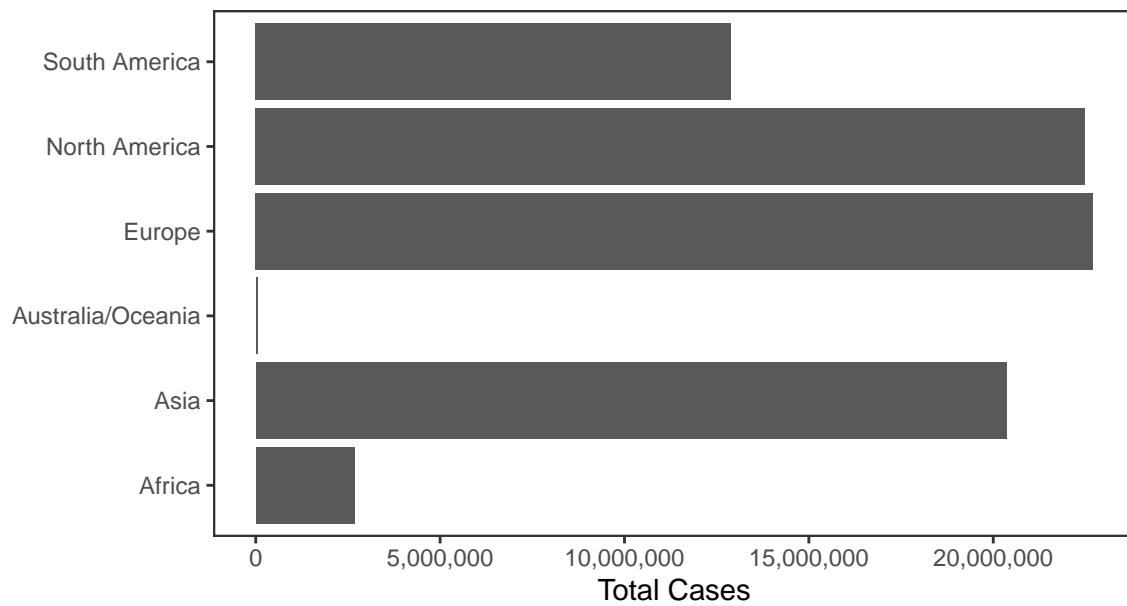
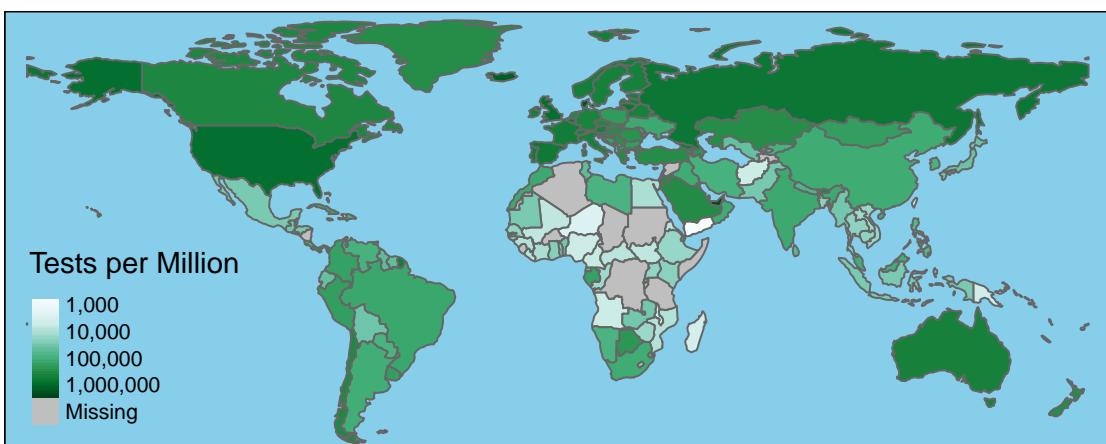
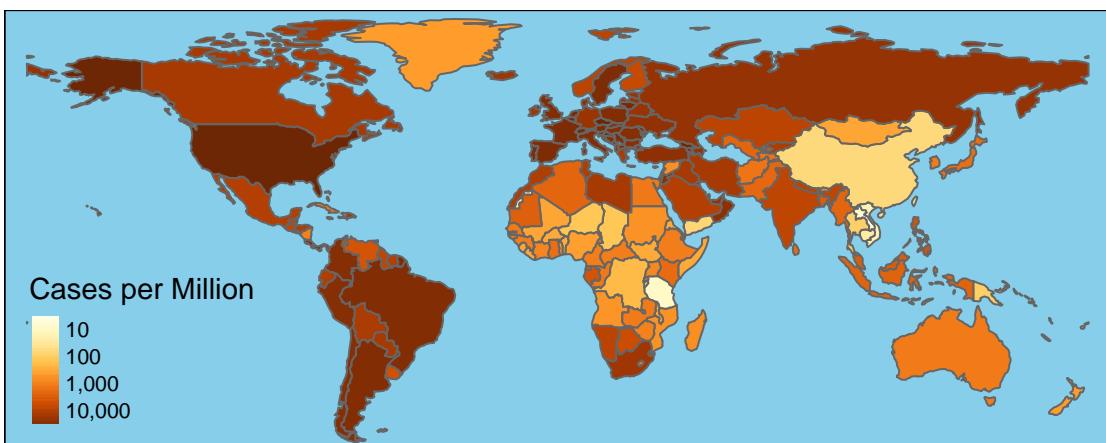
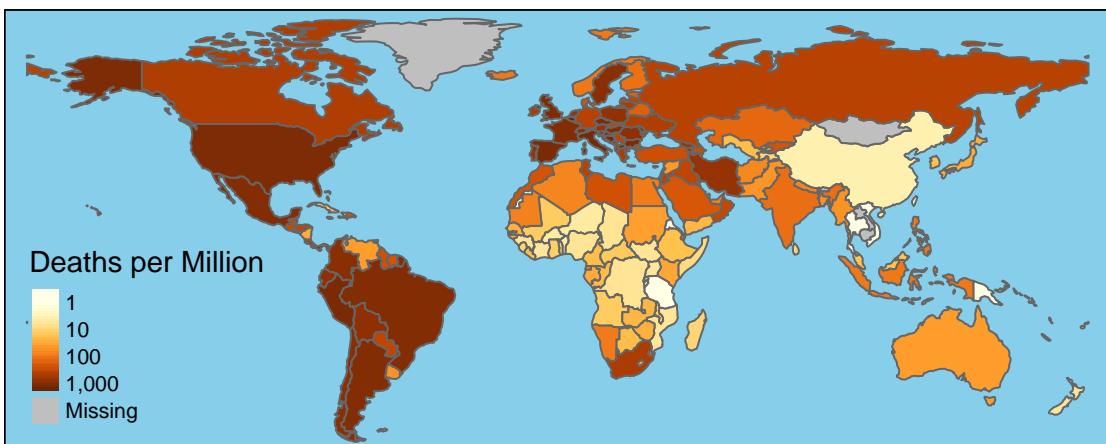


Table 1: Top Countries by Total Cases

Country	Cases	Deaths	New Cases	New Deaths
USA	19,595,328	341,216	145,278	1,265
India	10,208,725	147,940	20,333	281
Brazil	7,484,285	191,146	18,479	331
Russia	3,050,248	54,778	28,284	552
France	2,559,686	62,746	8,822	173
UK	2,288,345	70,752	30,501	316
Turkey	2,147,578	19,878	14,205	254
Italy	2,047,692	71,925	8,909	305
Spain	1,885,938	50,046	5,336	75
Germany	1,655,322	30,502	12,153	345
Colombia	1,594,497	42,171	9,594	228
Argentina	1,583,297	42,650	5,030	149
Mexico	1,377,217	122,026	4,974	189
Poland	1,257,799	27,118	3,678	57
Iran	1,200,465	54,693	5,502	119
Ukraine	1,025,989	17,774	6,113	72
Peru	1,007,657	37,474	1,339	60
South Africa	1,004,413	26,735	9,502	214
Netherlands	762,985	10,998	9,080	28
Indonesia	713,365	21,237	6,528	243



National Data

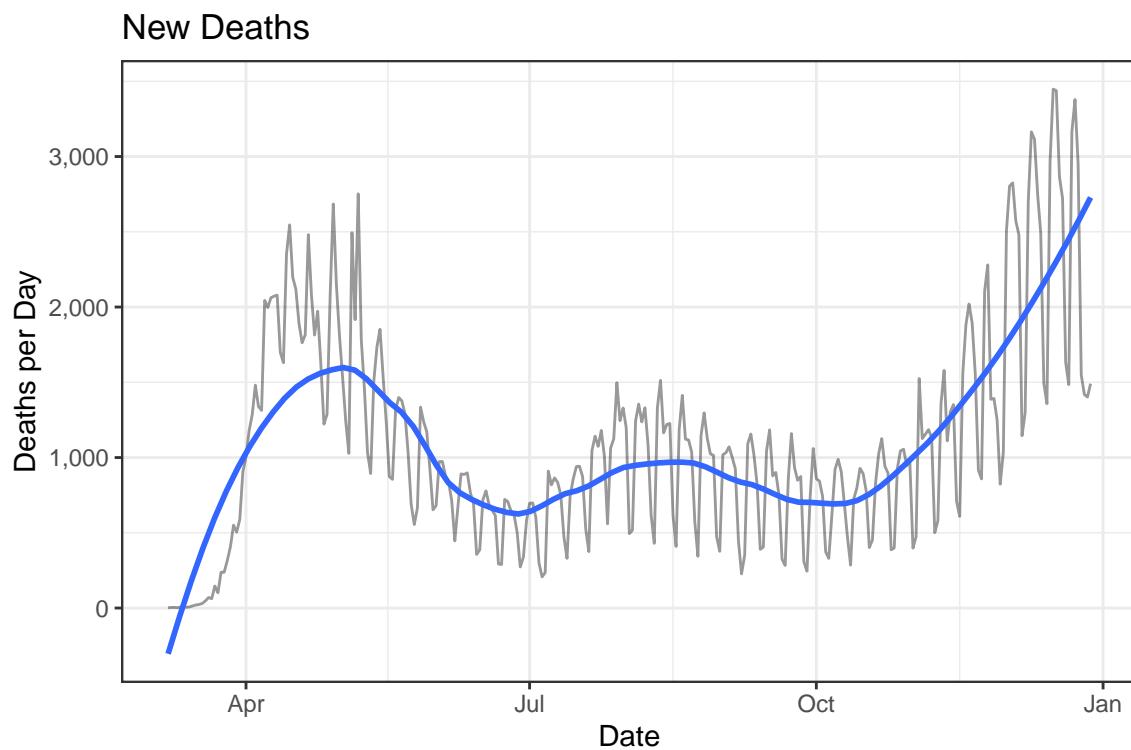
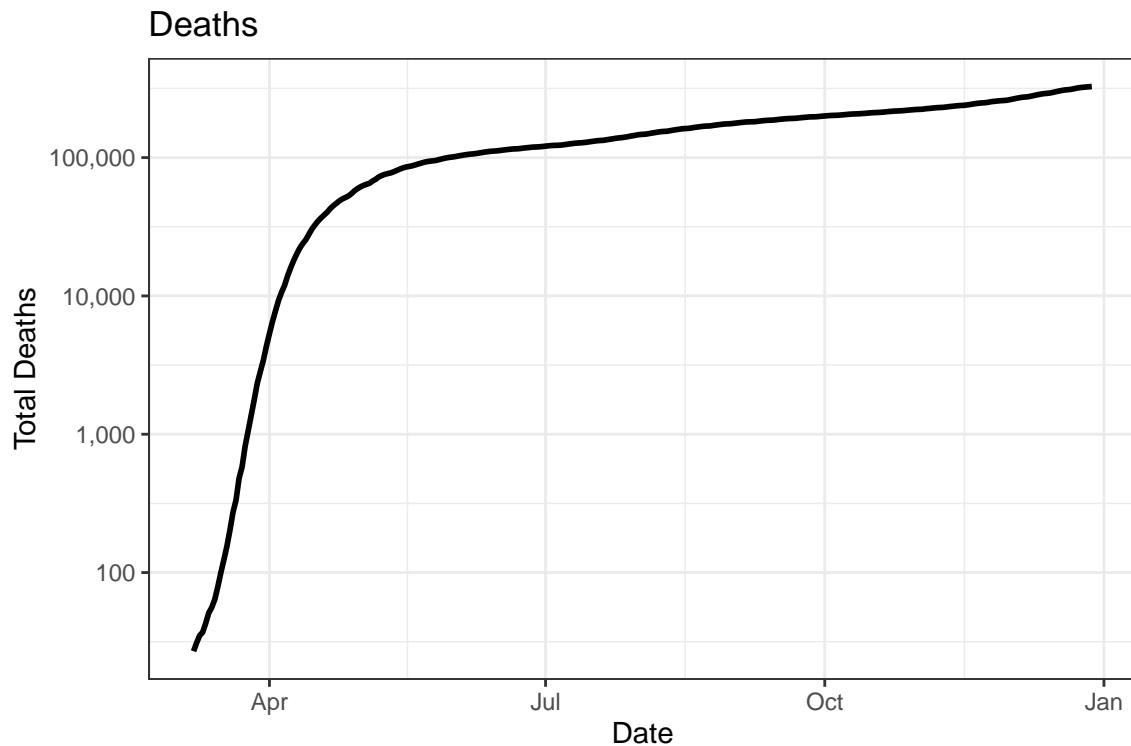
There have been 19,072,721 confirmed Covid-19 cases and 326,322 deaths in the United States.

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

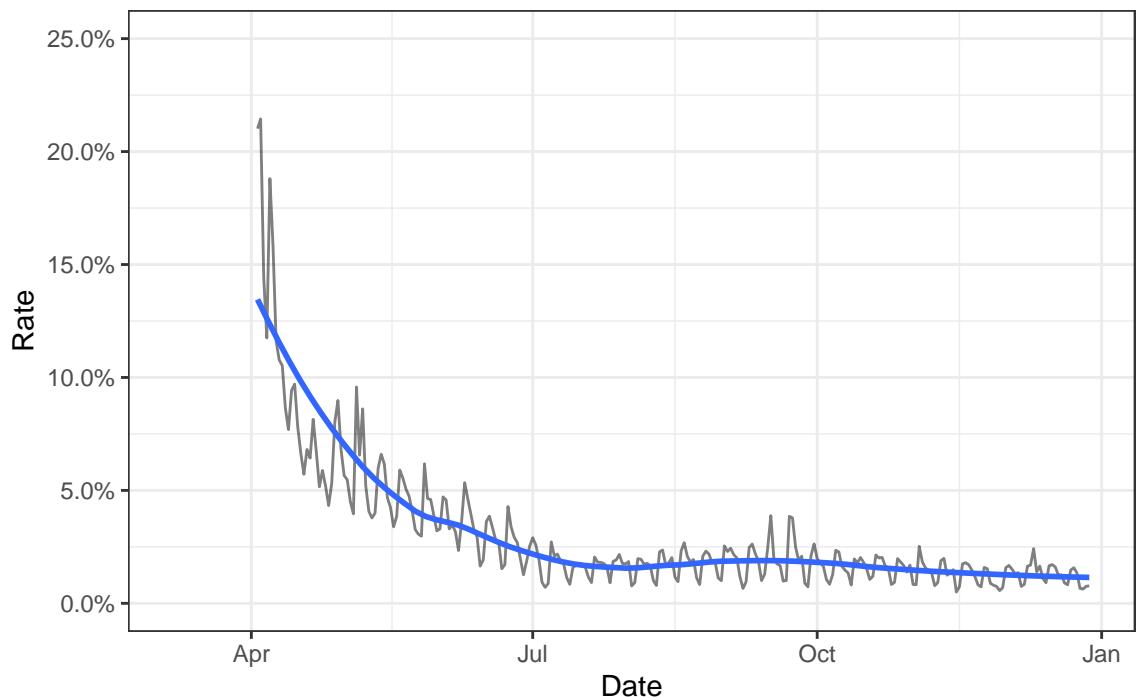
Date	Cases	Deaths	New Cases	New Deaths
2020-12-28	19,072,721	326,322	162,190	1,491
2020-12-27	18,910,531	324,831	153,194	1,402
2020-12-26	18,757,337	323,429	189,494	1,419
2020-12-25	18,567,843	322,010	125,368	1,548
2020-12-24	18,442,475	320,462	203,625	2,949
2020-12-23	18,238,850	317,513	220,834	3,379
2020-12-22	18,018,016	314,134	189,932	3,166
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

Deaths

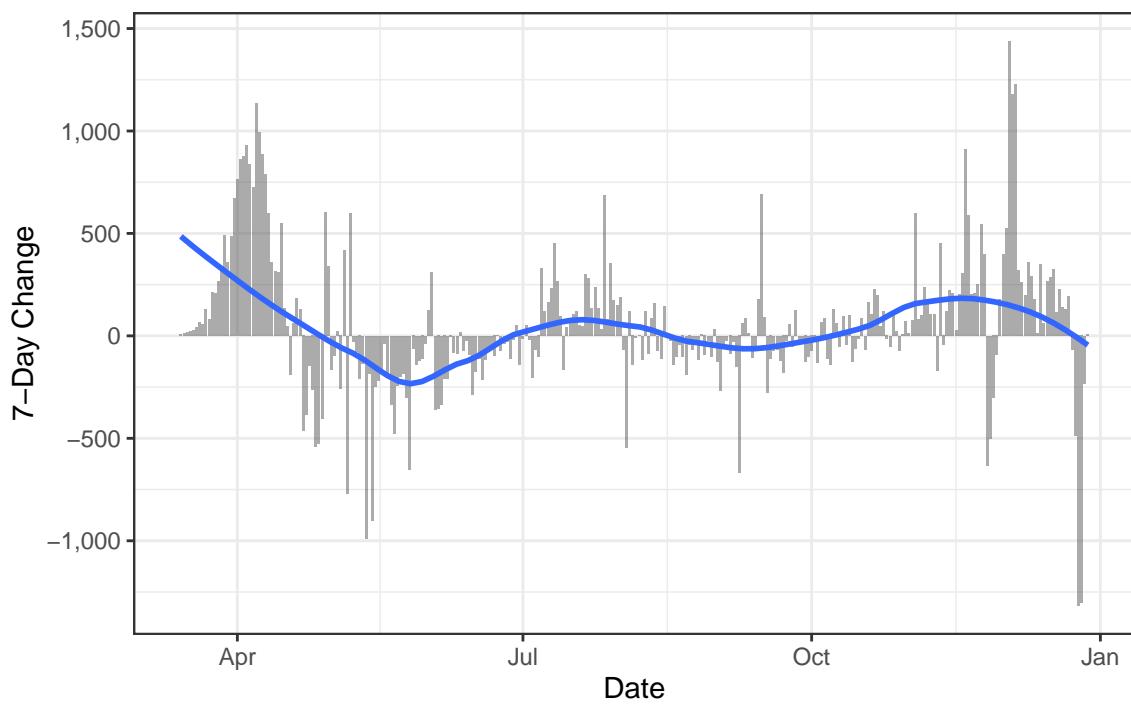
Because the effects of the virus can take several weeks to manifest in patients, deaths are a lagging indicator of contagion, but they may be a more reliable than case counts, which are a function of both the prevalence of the disease and the rate of testing. The case mortality rate is a very crude indicator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

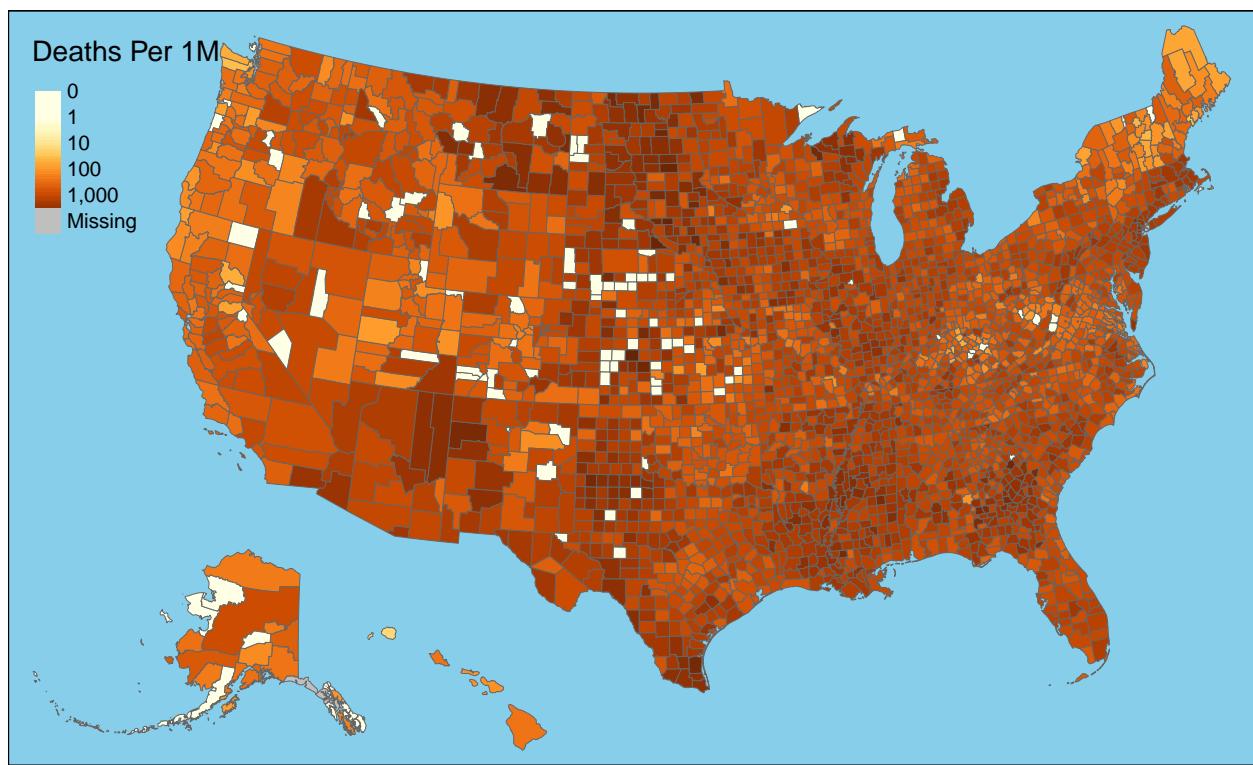


Daily Case Mortality Rate



One-Week Change in Daily Deaths

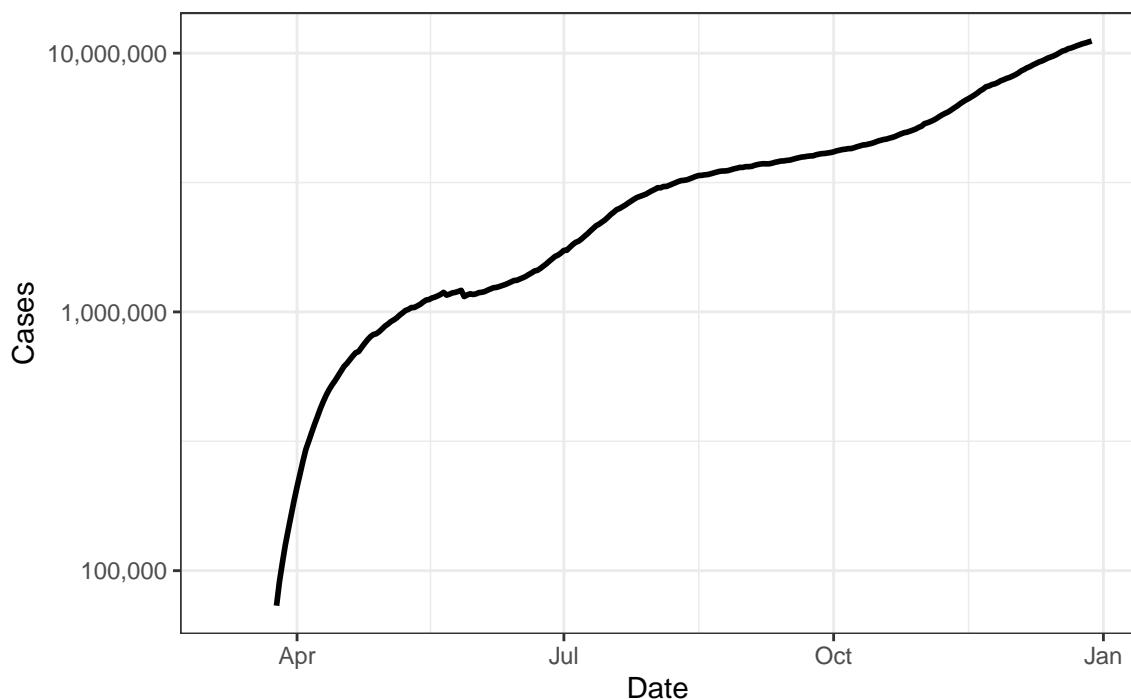




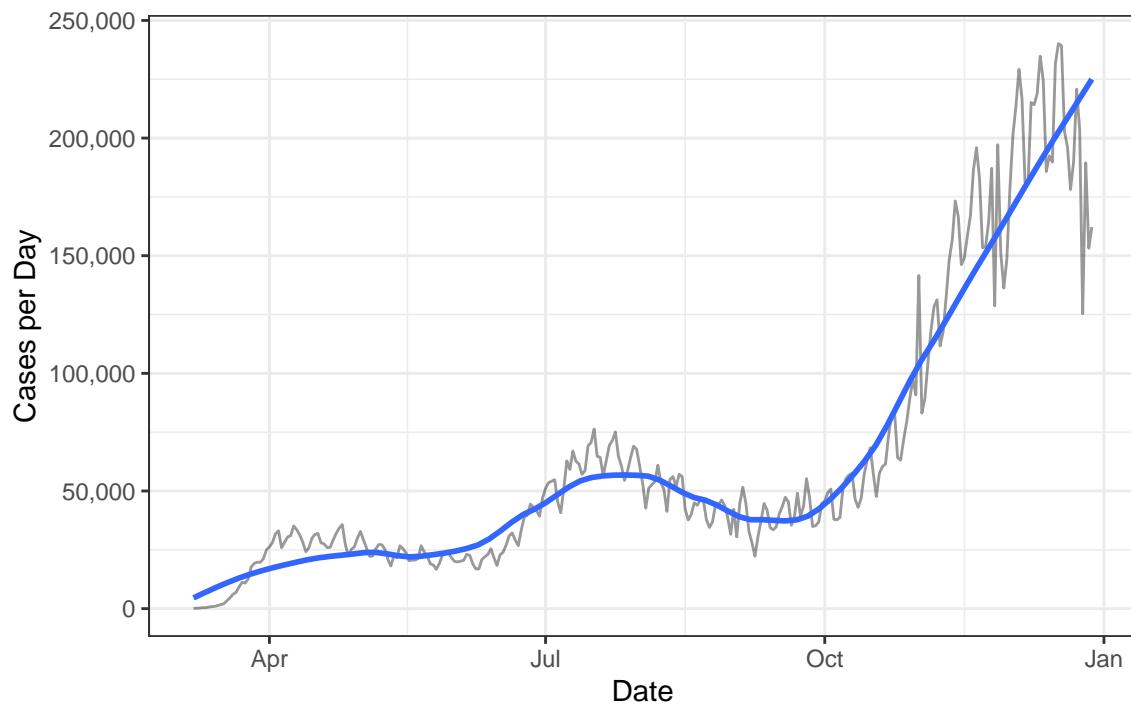
Cases

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

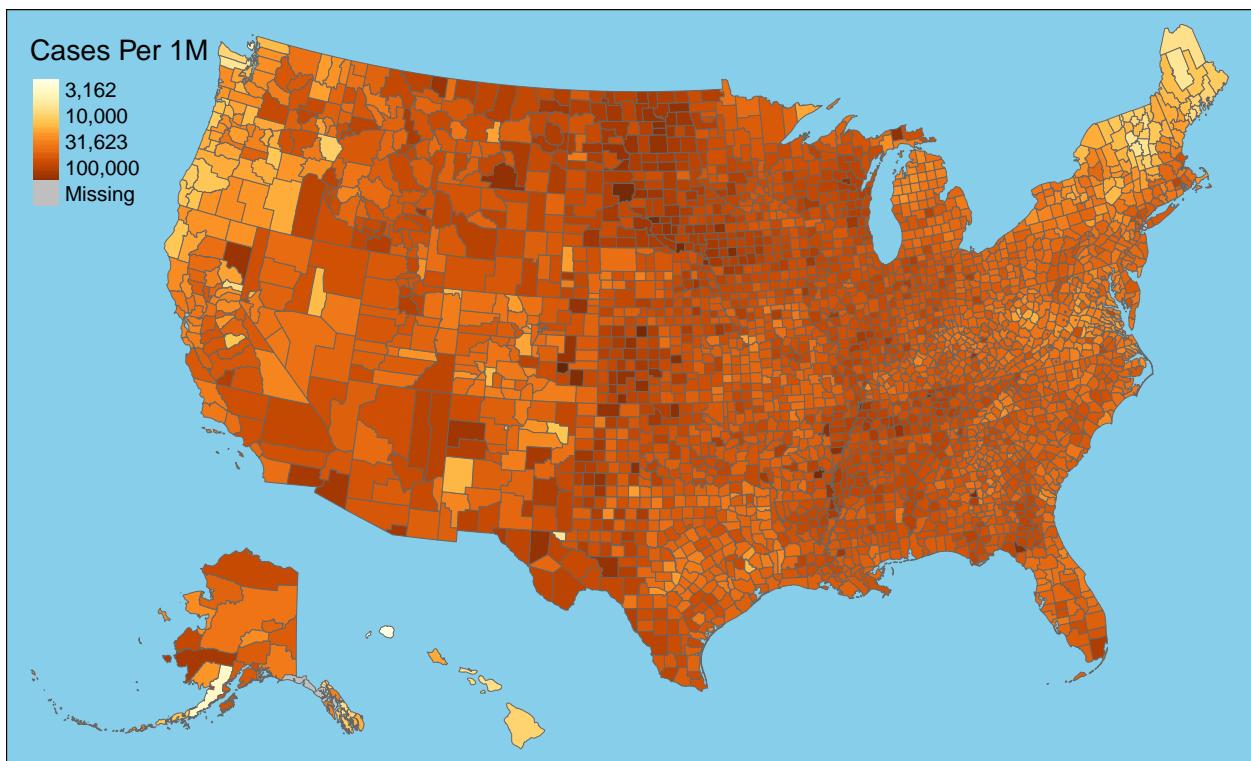
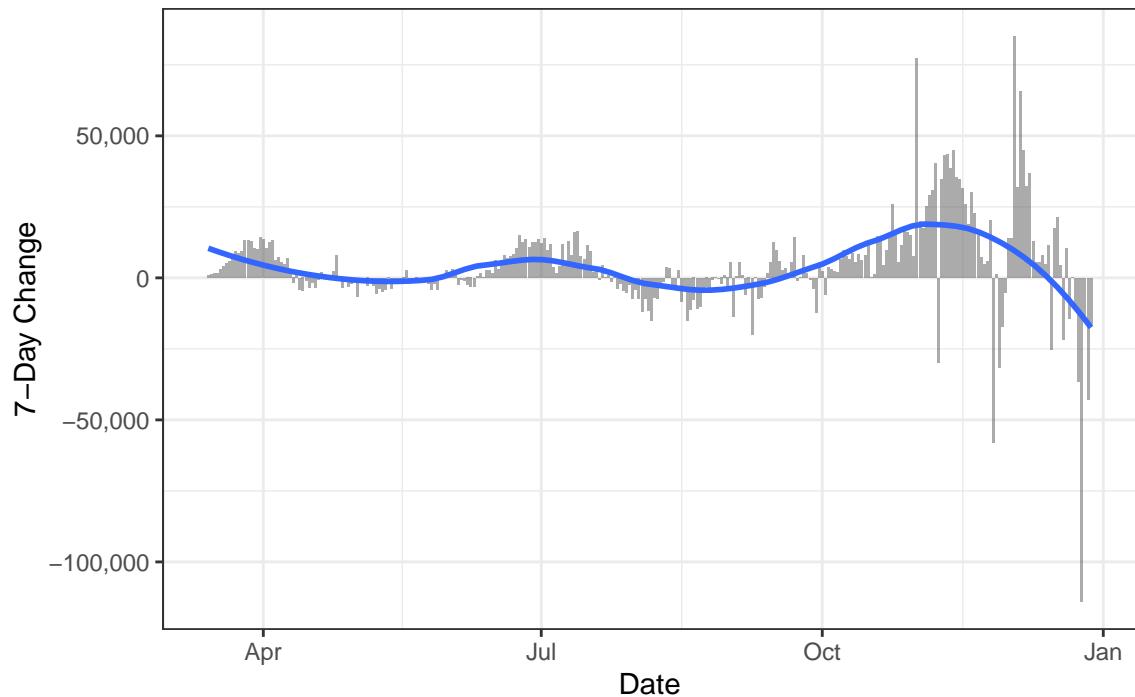
Active Cases



New Cases

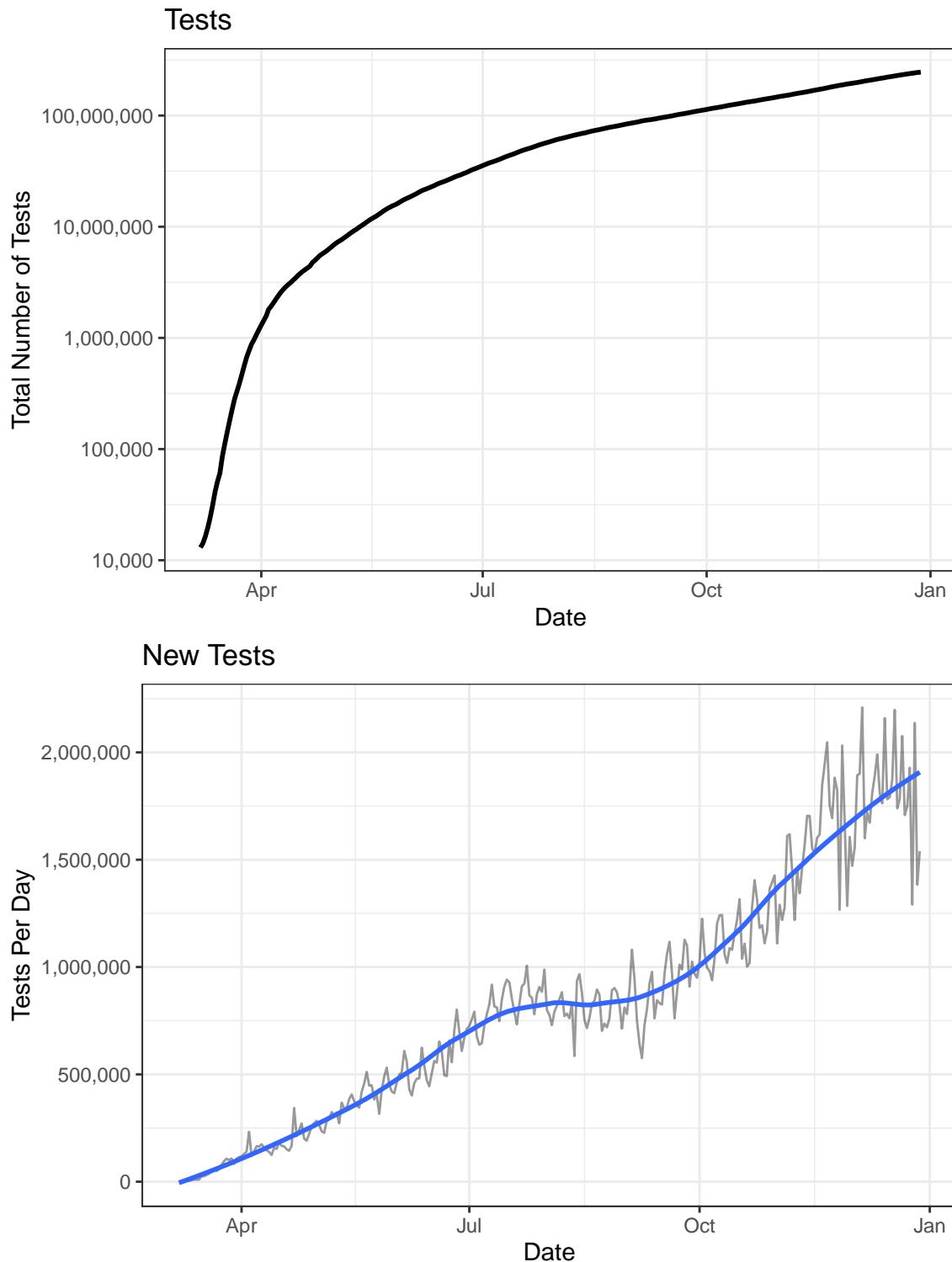


One-Week Change in Daily Cases

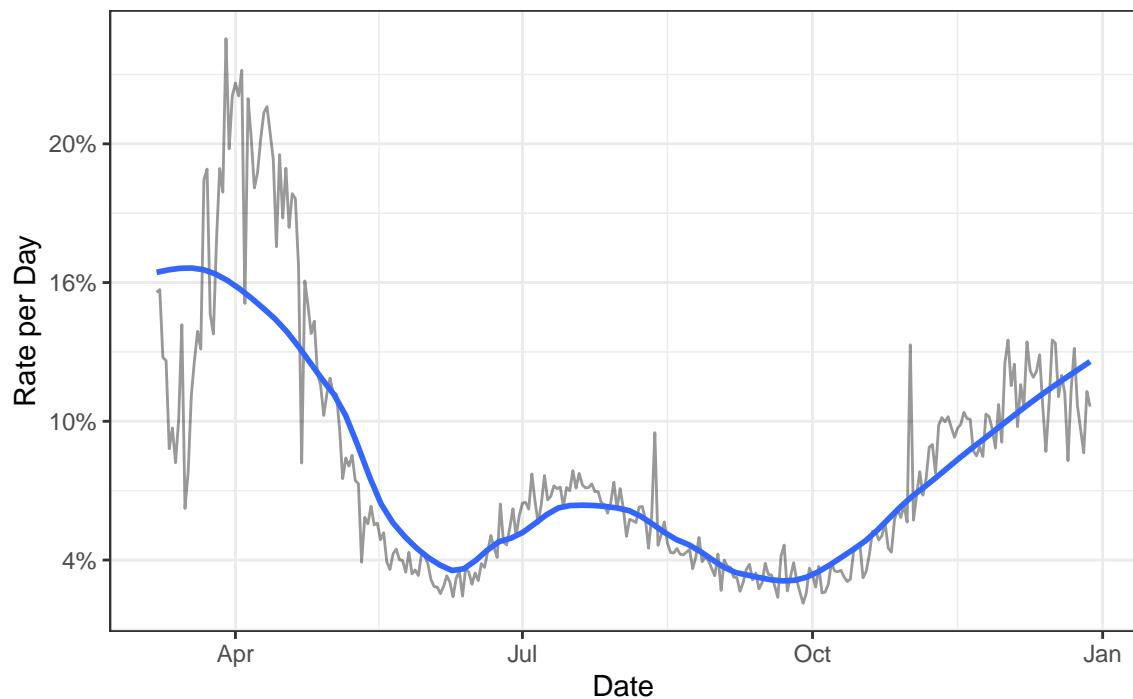


Testing

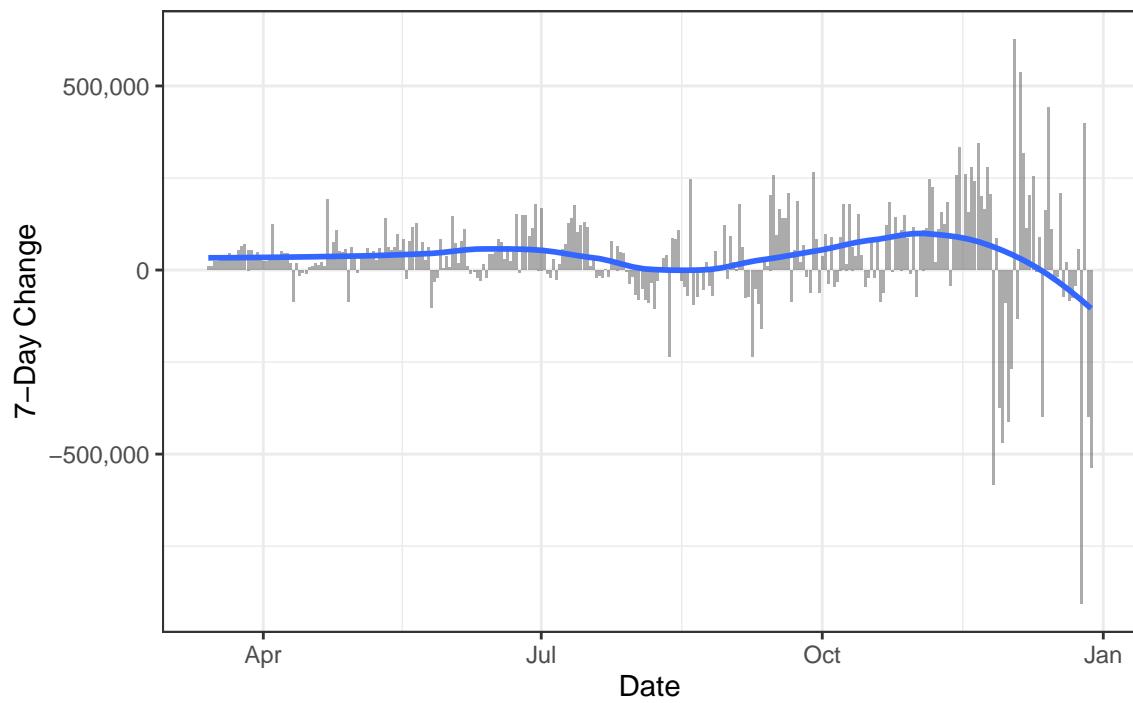
Widespread testing is necessary for managing the spread of the disease. The following charts show how testing in the United States has changed over time. When the supply of available tests is limited, they are typically only used for patients whose symptoms suggest they are likely to have contracted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



Positive Test Rate



One-Week Change in Daily Tests

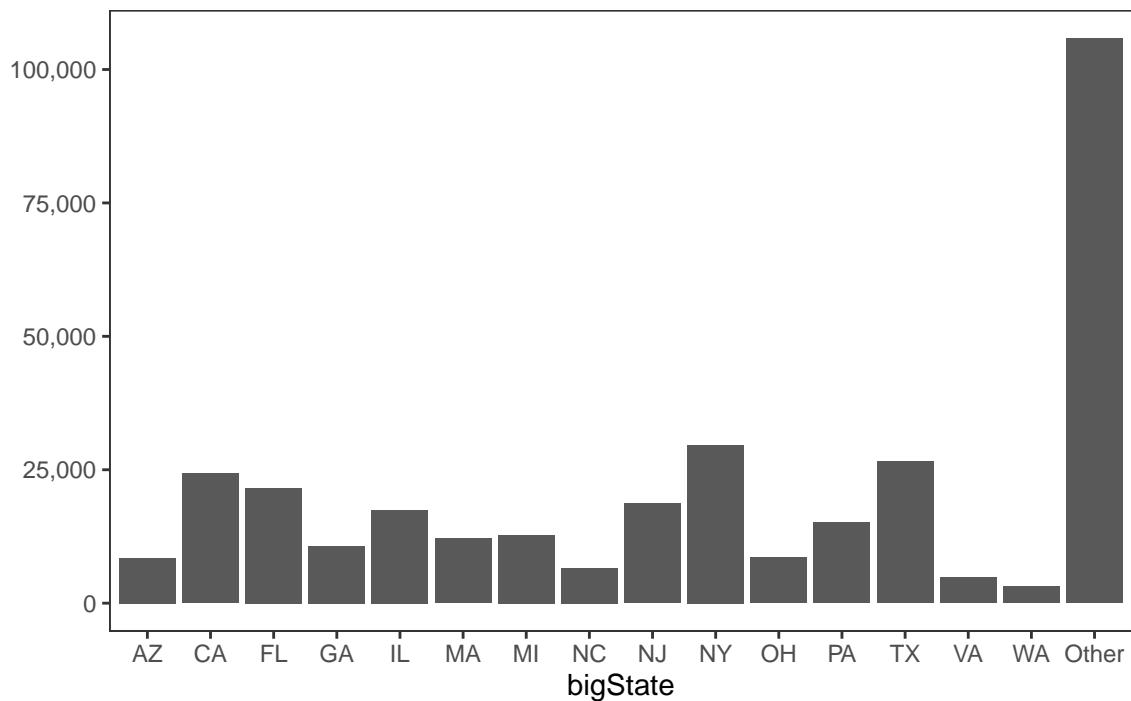


State Data

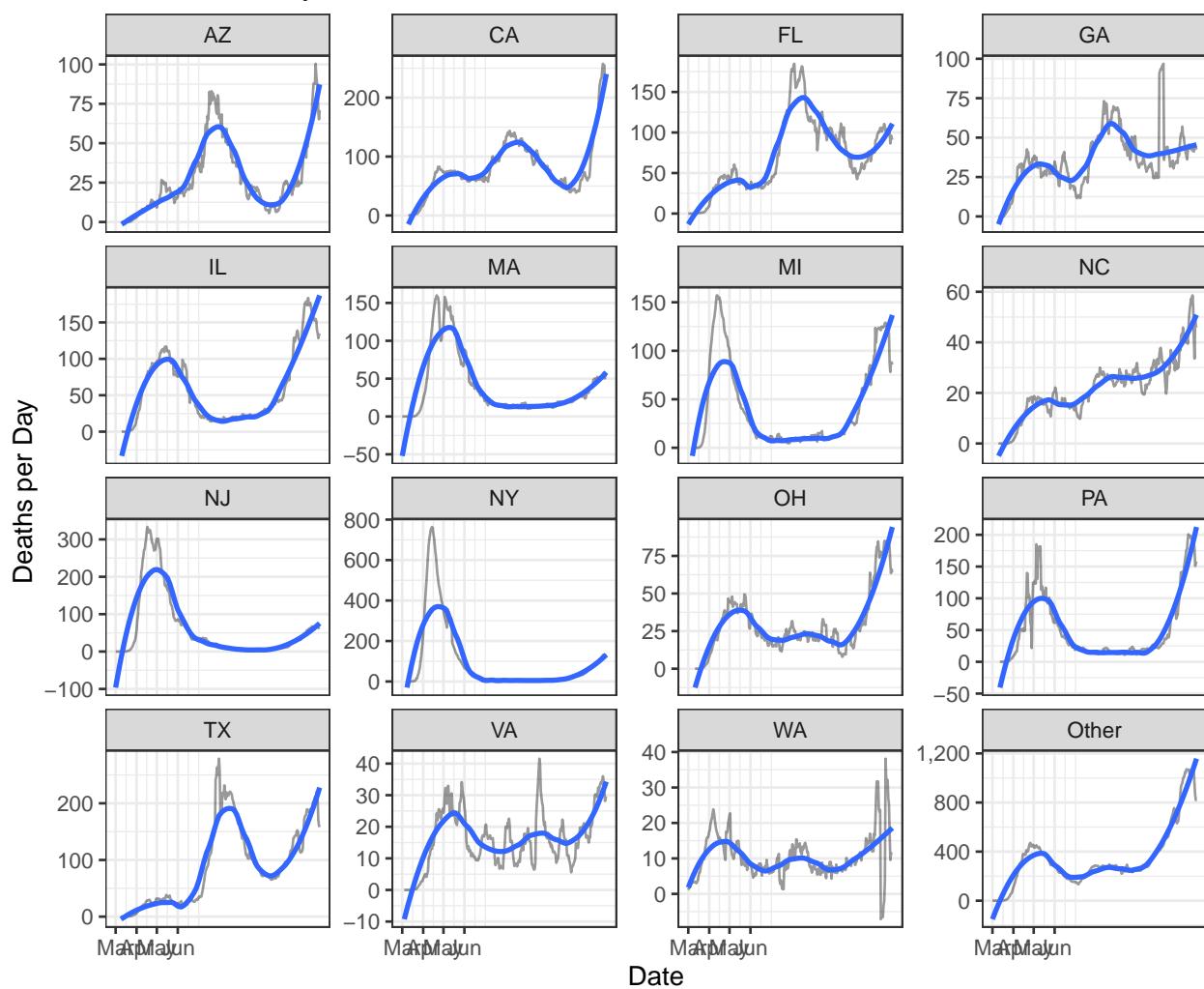
This section summarizes state-level data. Most data are reported for the largest 15 states by population, which account for NaN percent of the total U.S. population.

Deaths

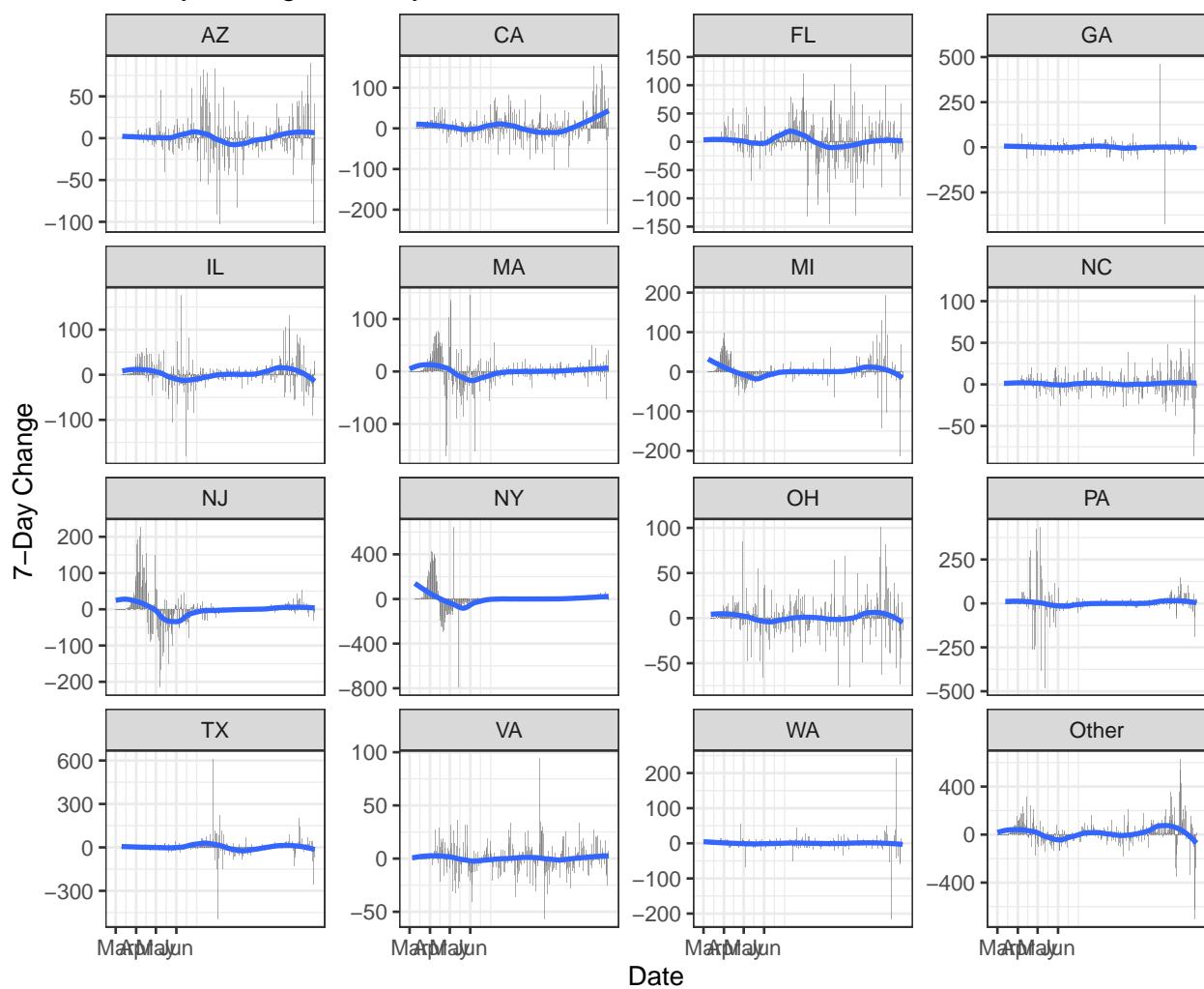
Deaths by State

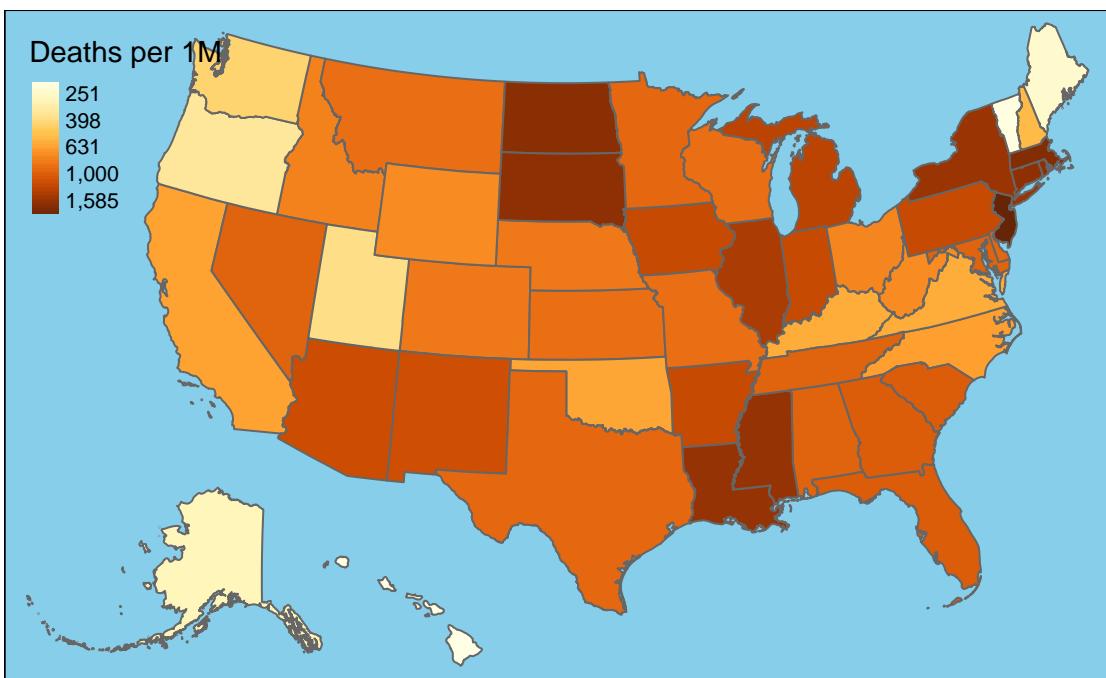
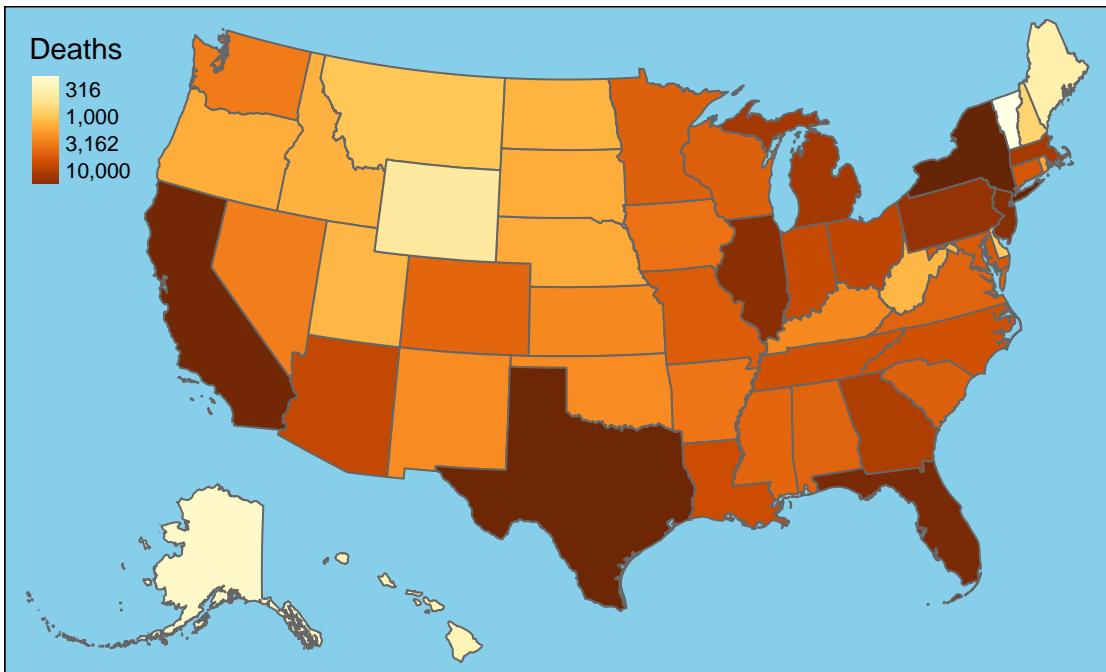


New Deaths by State



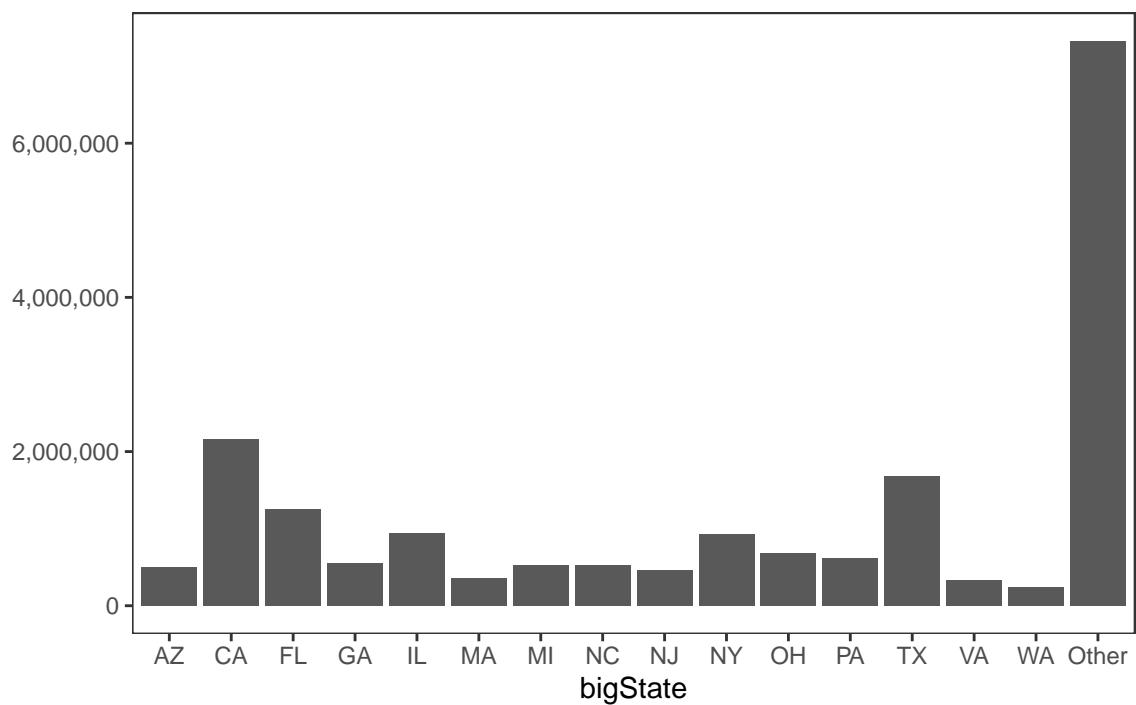
7-Day Change in Daily Deaths



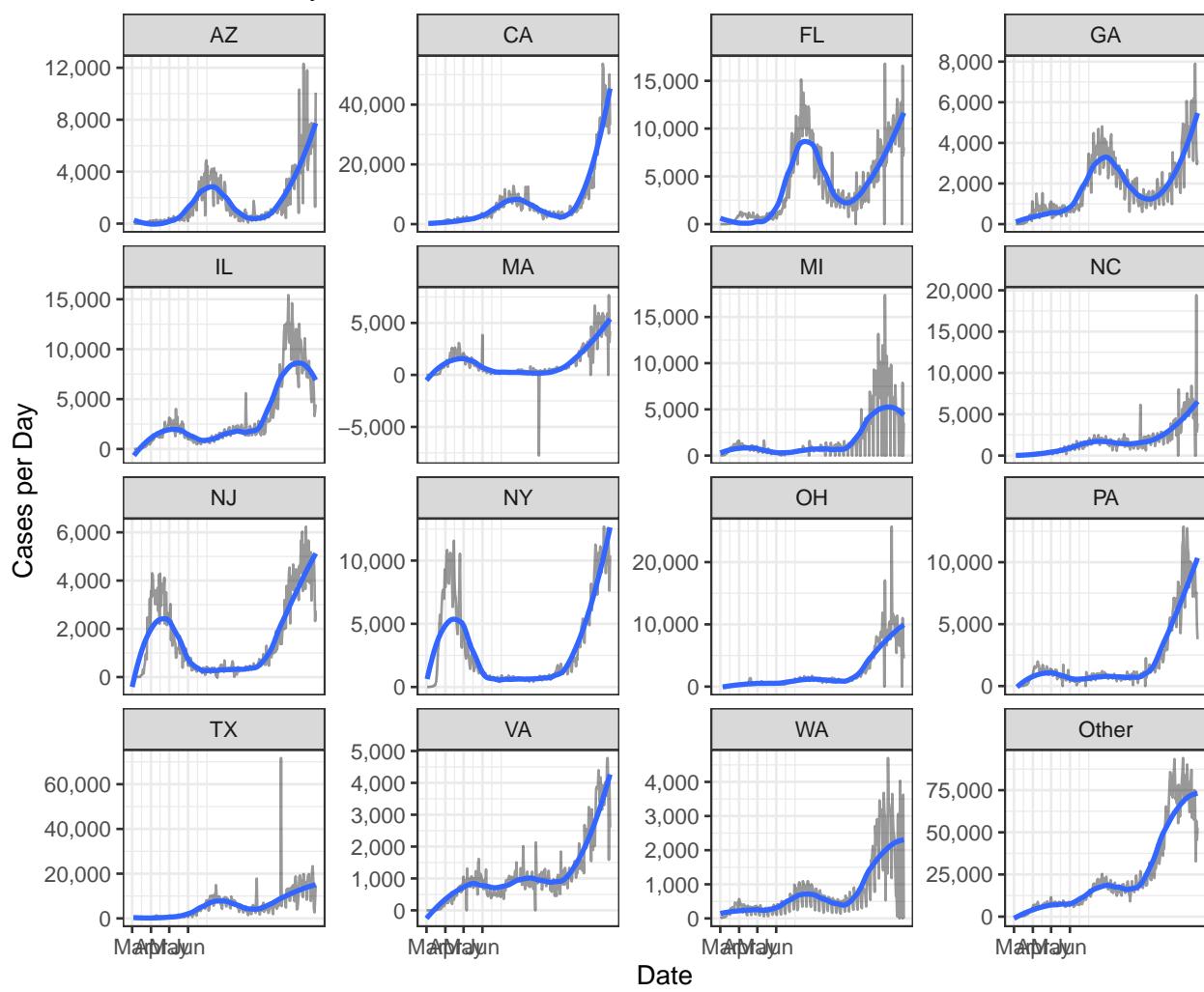


Cases

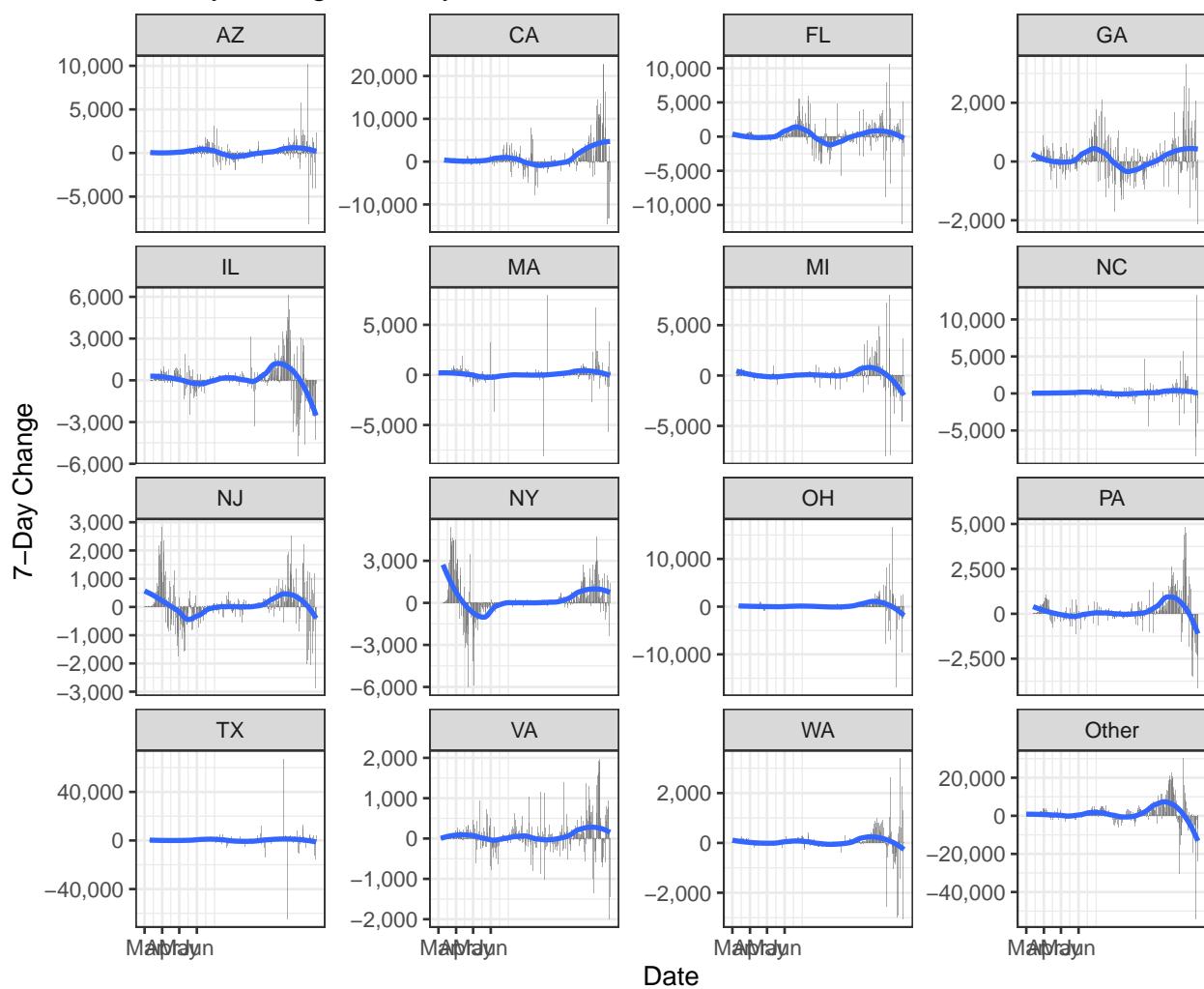
Cases by State

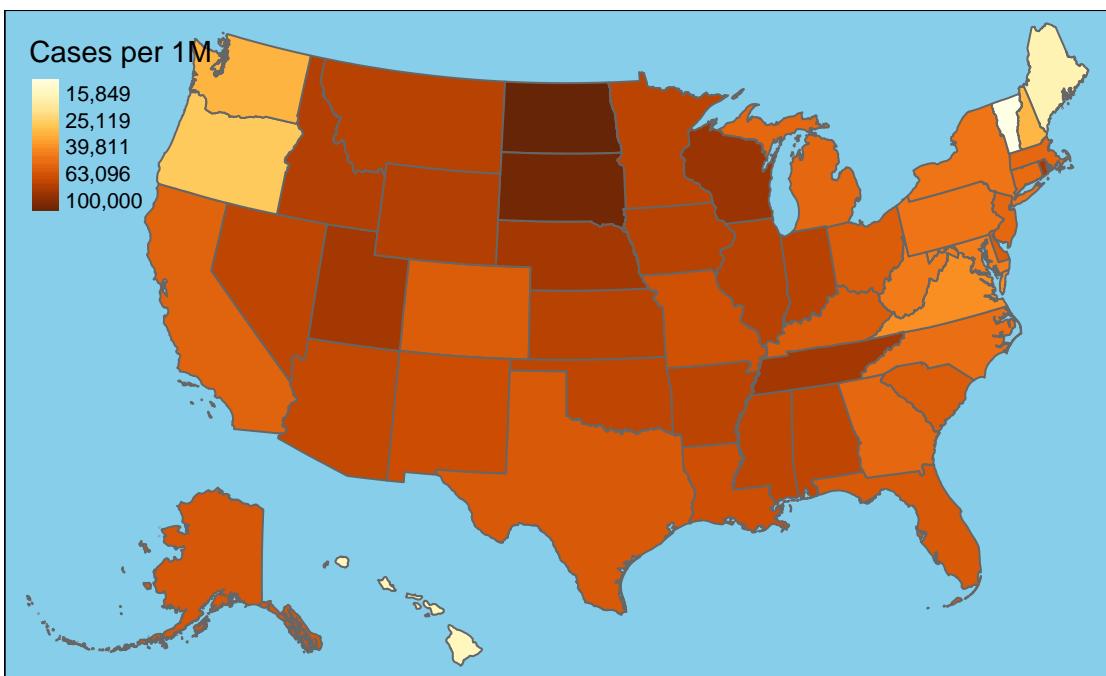
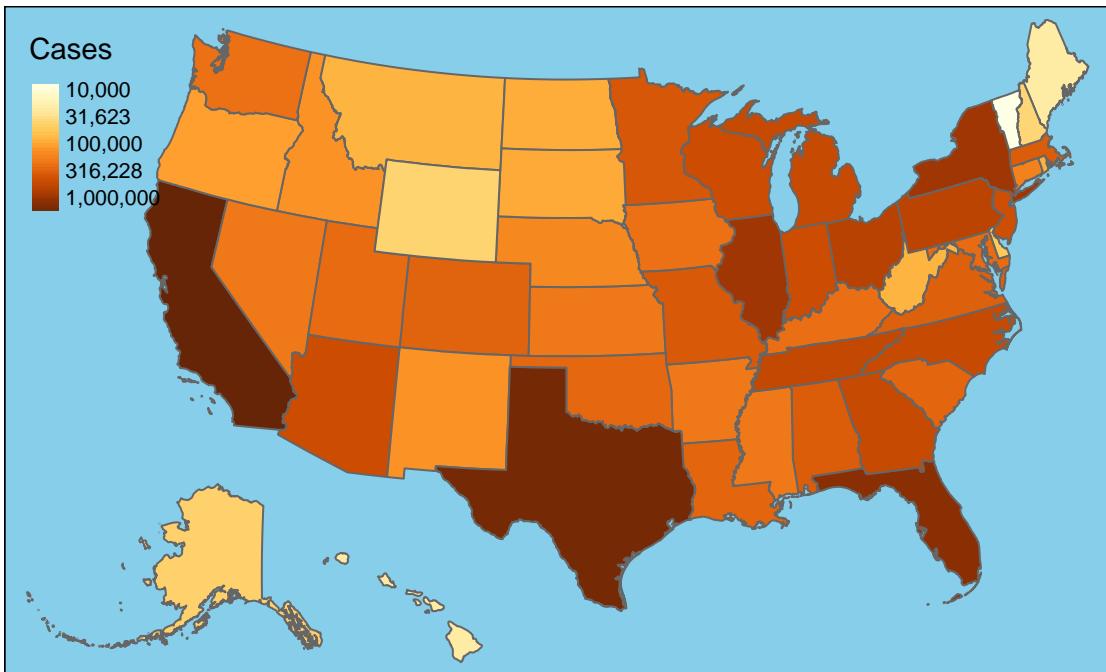


New Cases by State

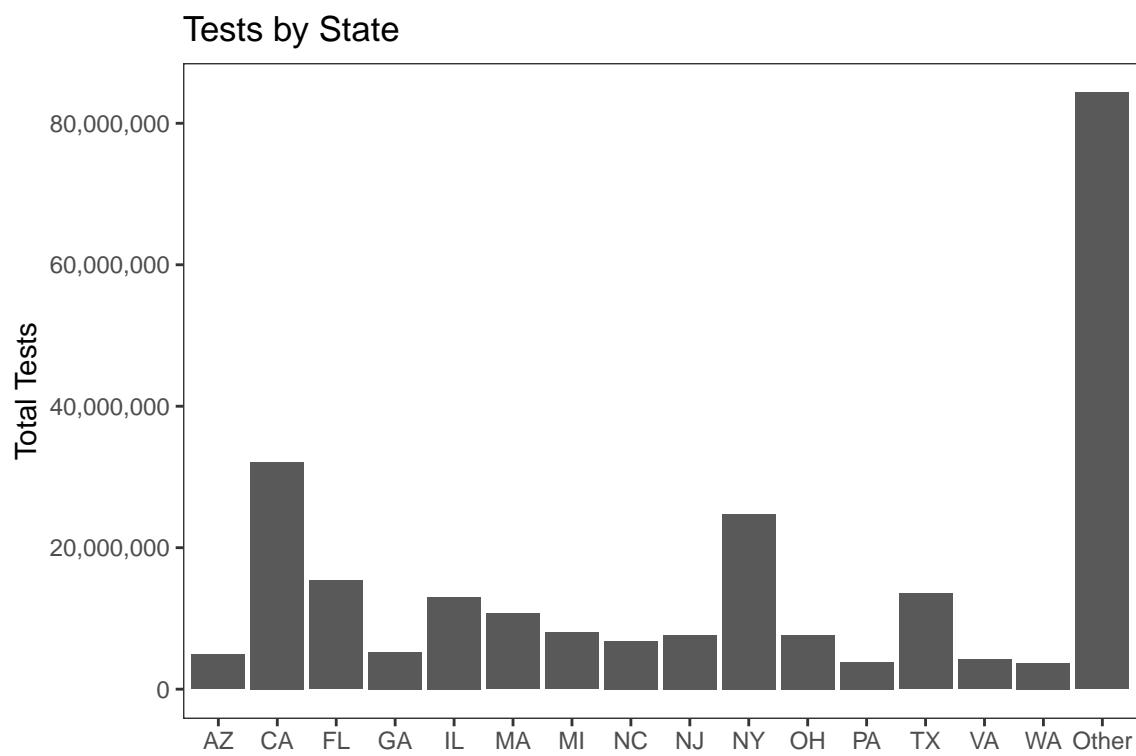


7-Day Change in Daily Cases

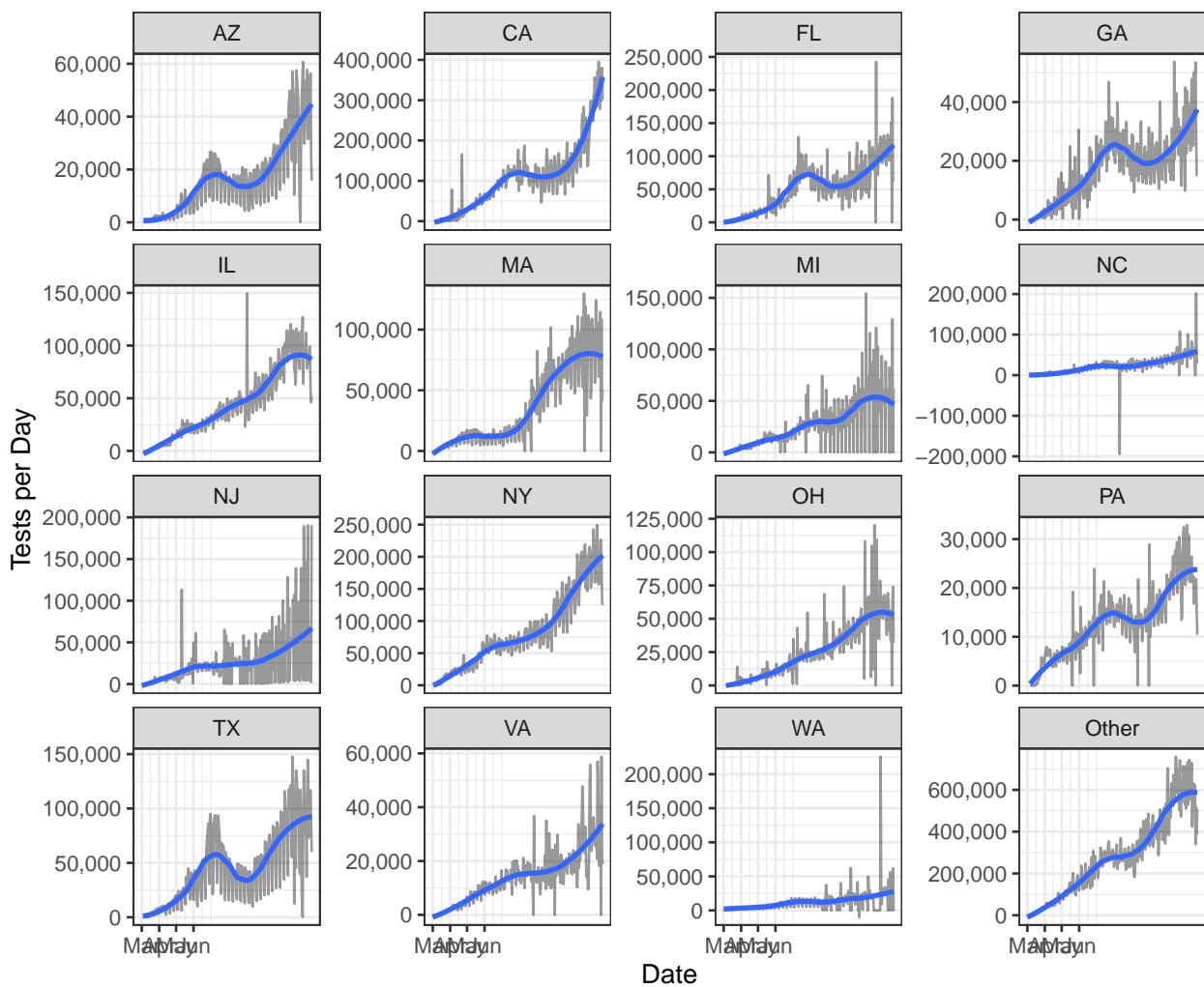


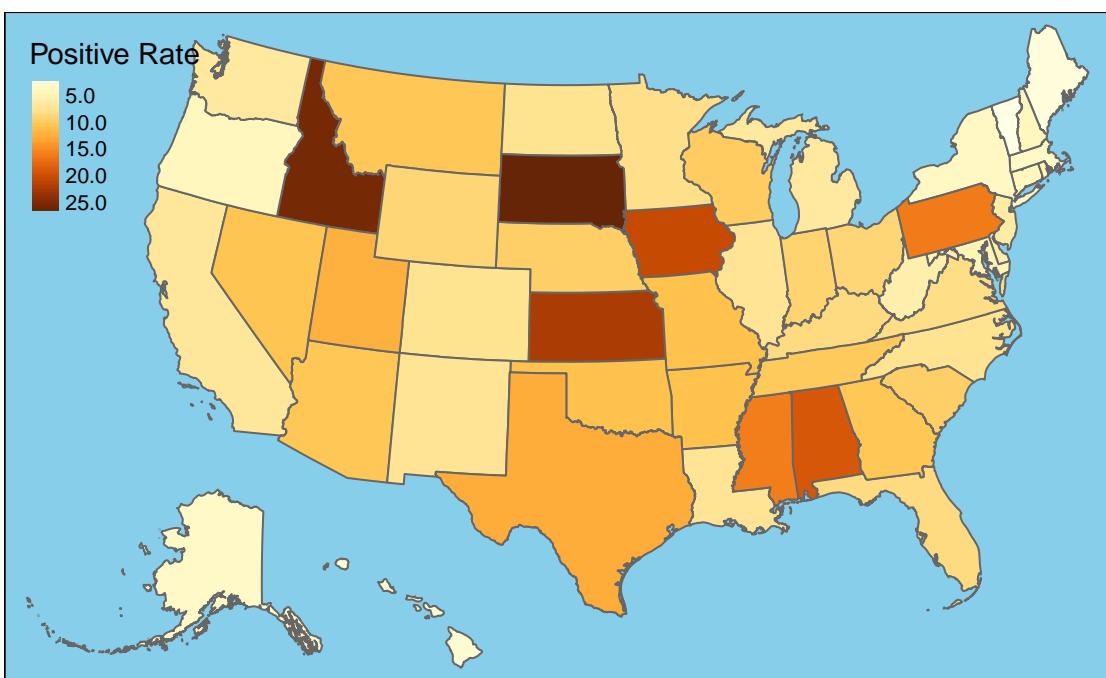
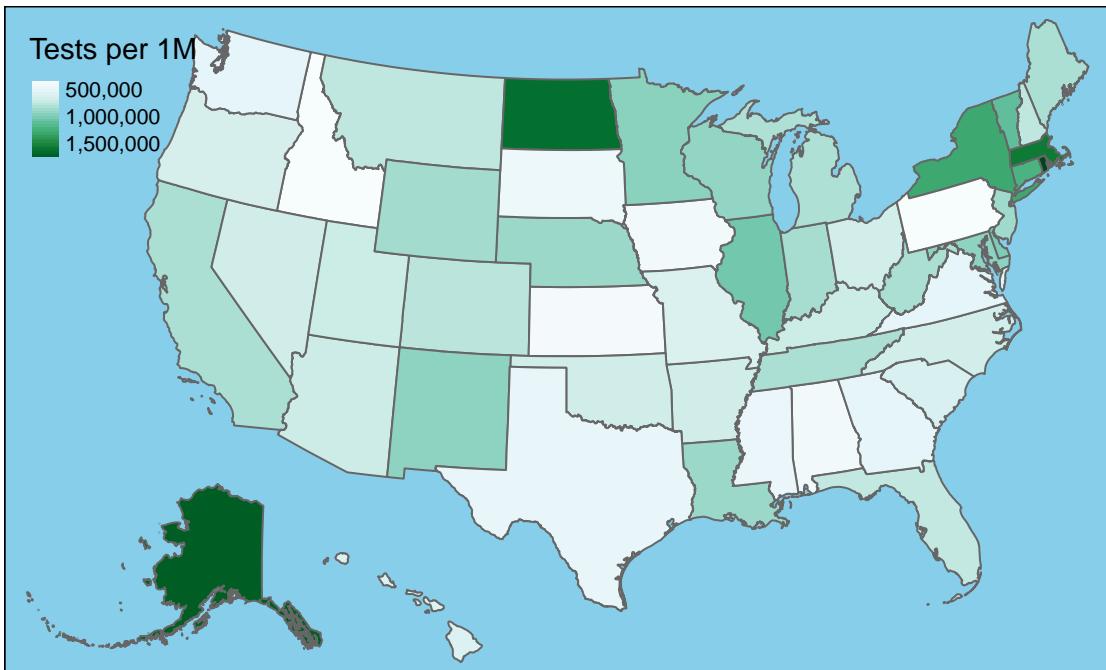


Testing



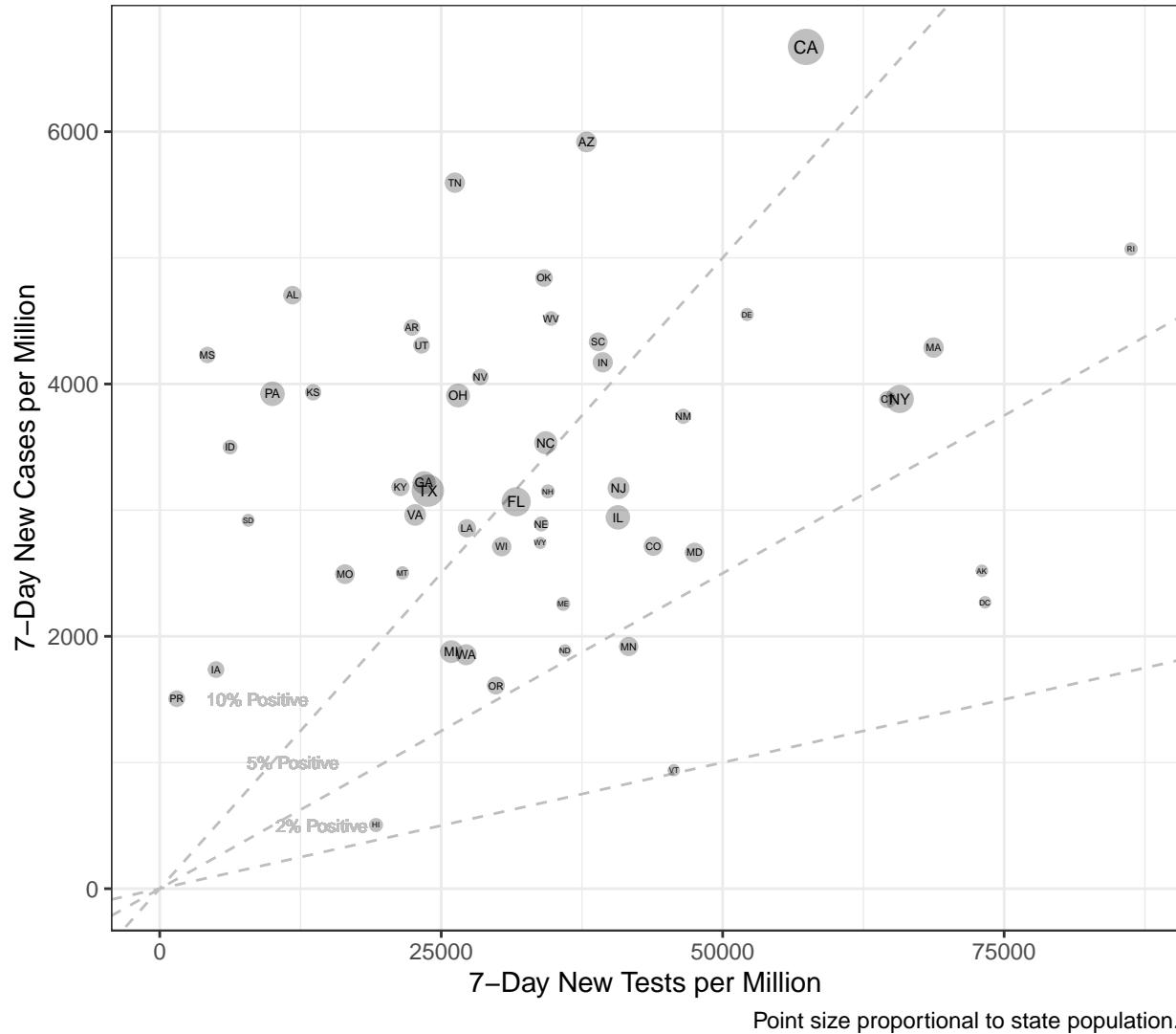
New Tests by State





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



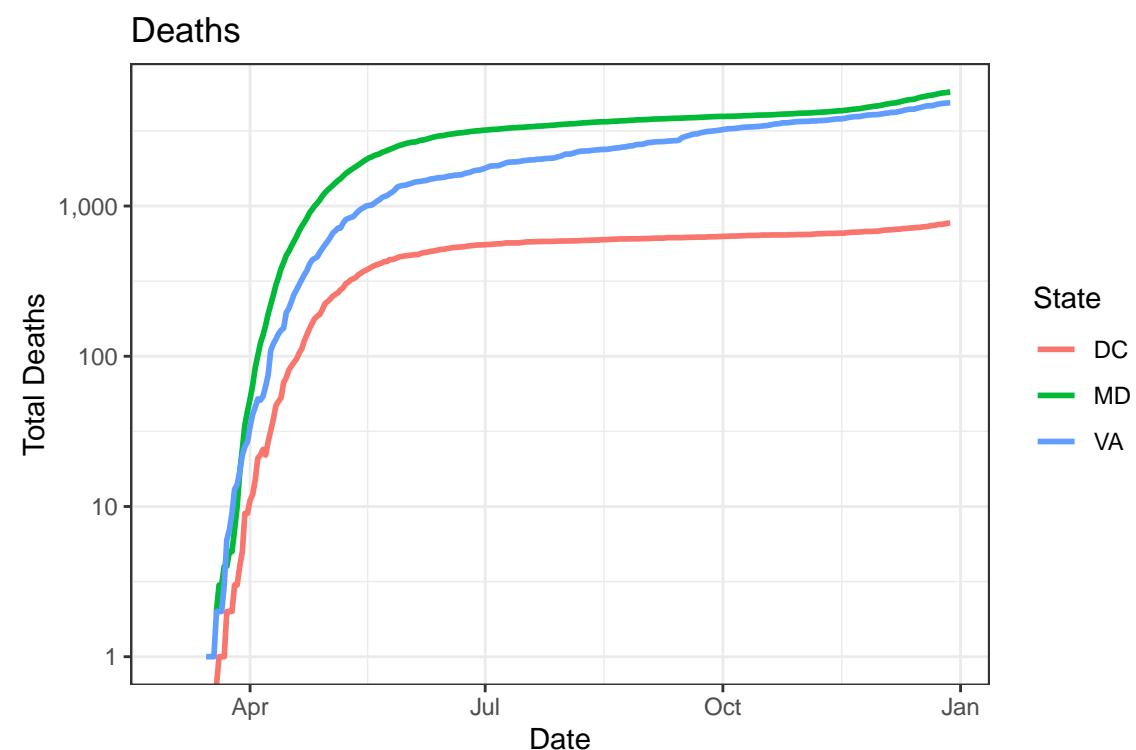
Local Data

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

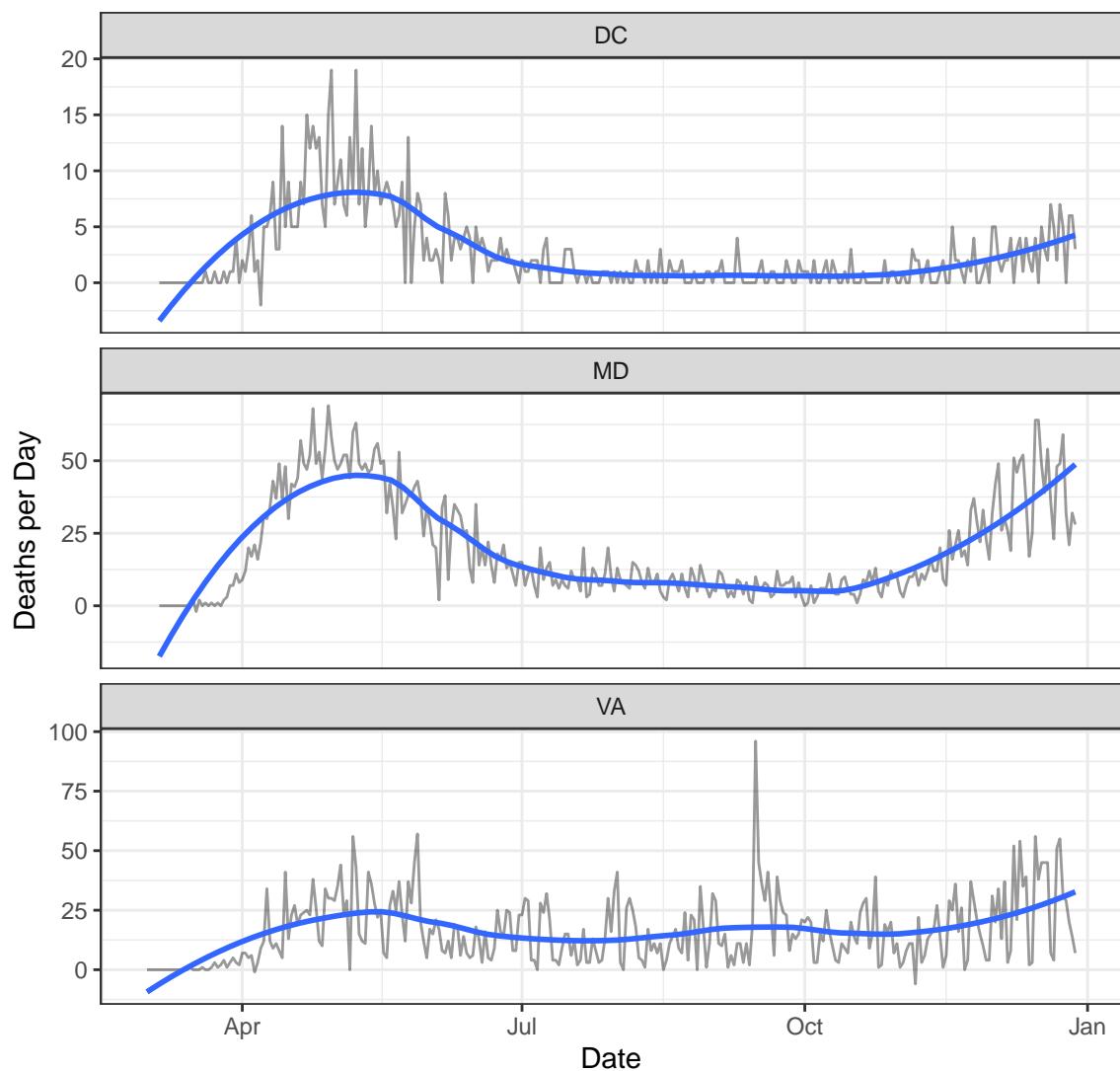
Table 3: Latest Local Data

State	Cases	Deaths	New Cases	New Deaths
DC	28,342	771	140	3
MD	269,183	5,740	1,985	28
VA	336,175	4,861	2,599	7

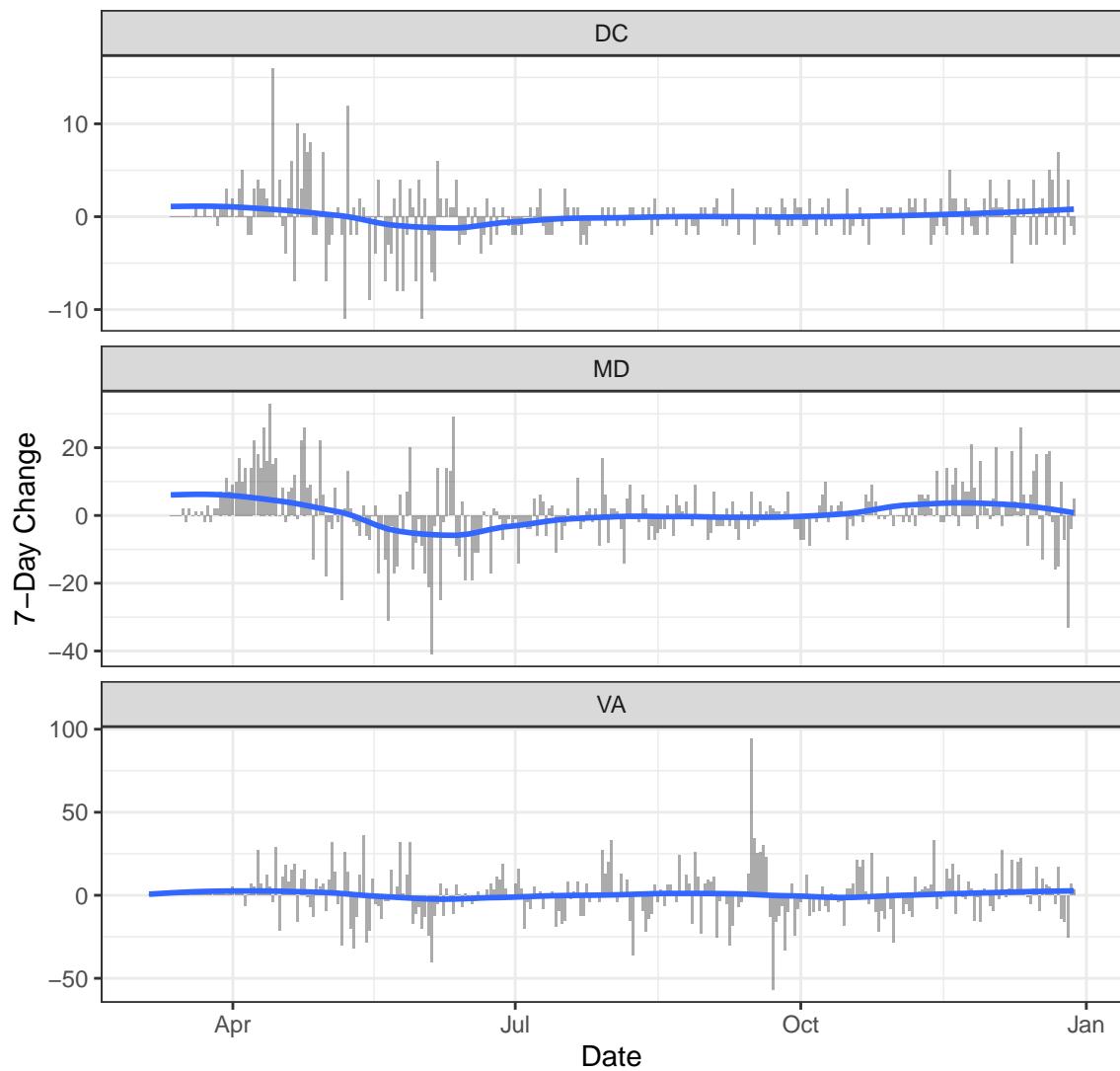
Deaths

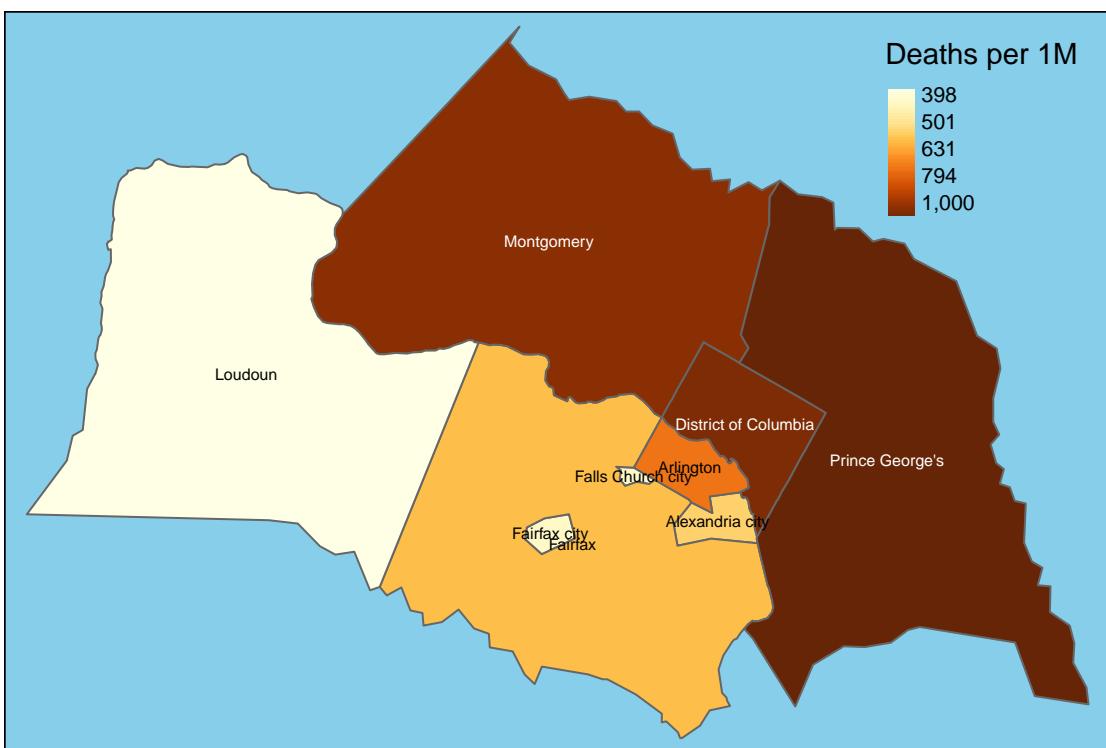
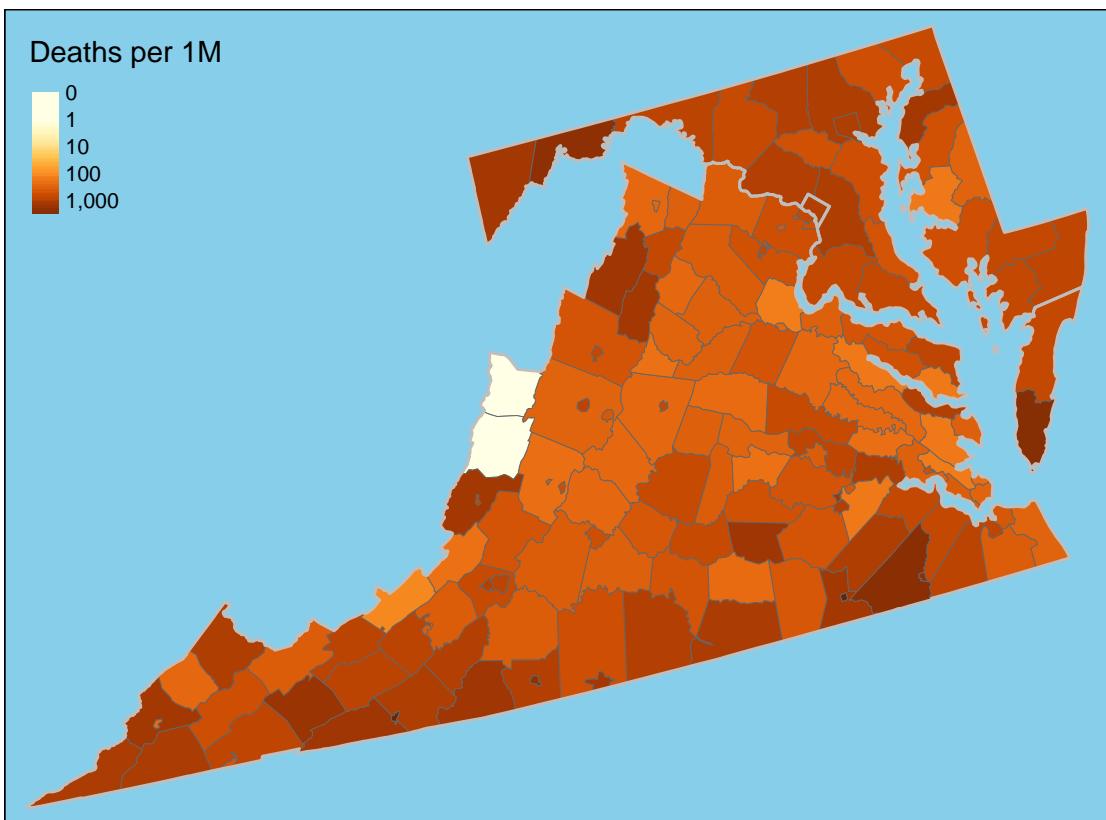


New Deaths

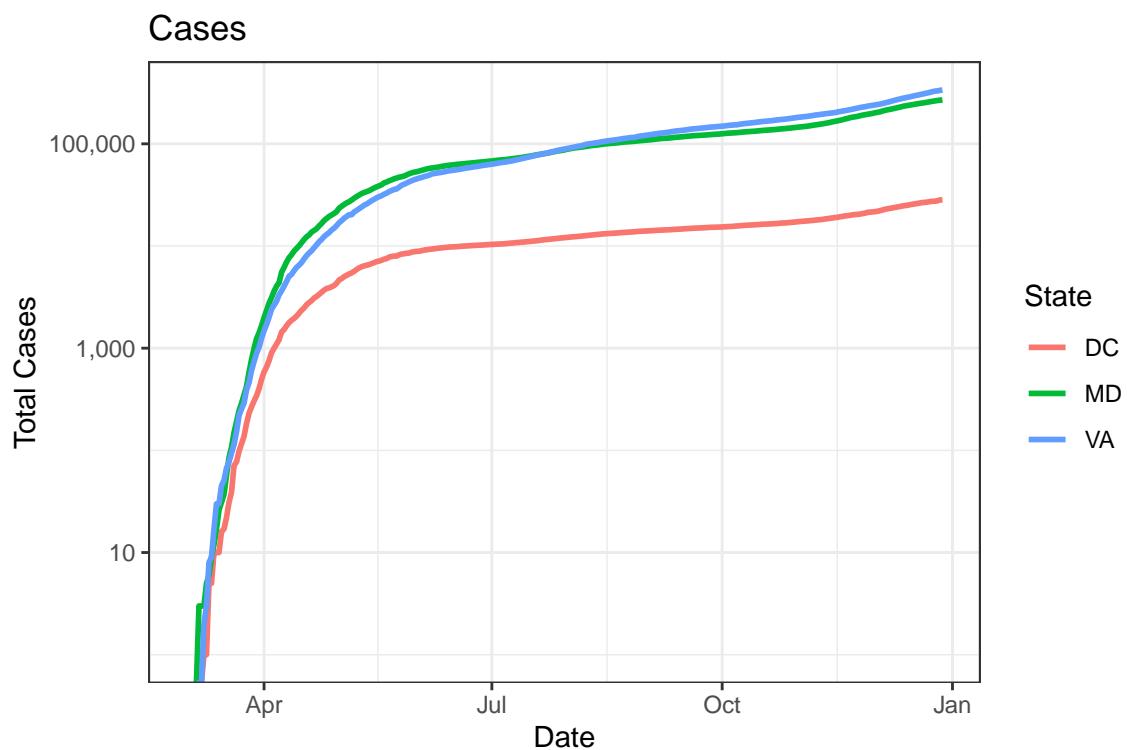


One-Week Change in Daily Deaths

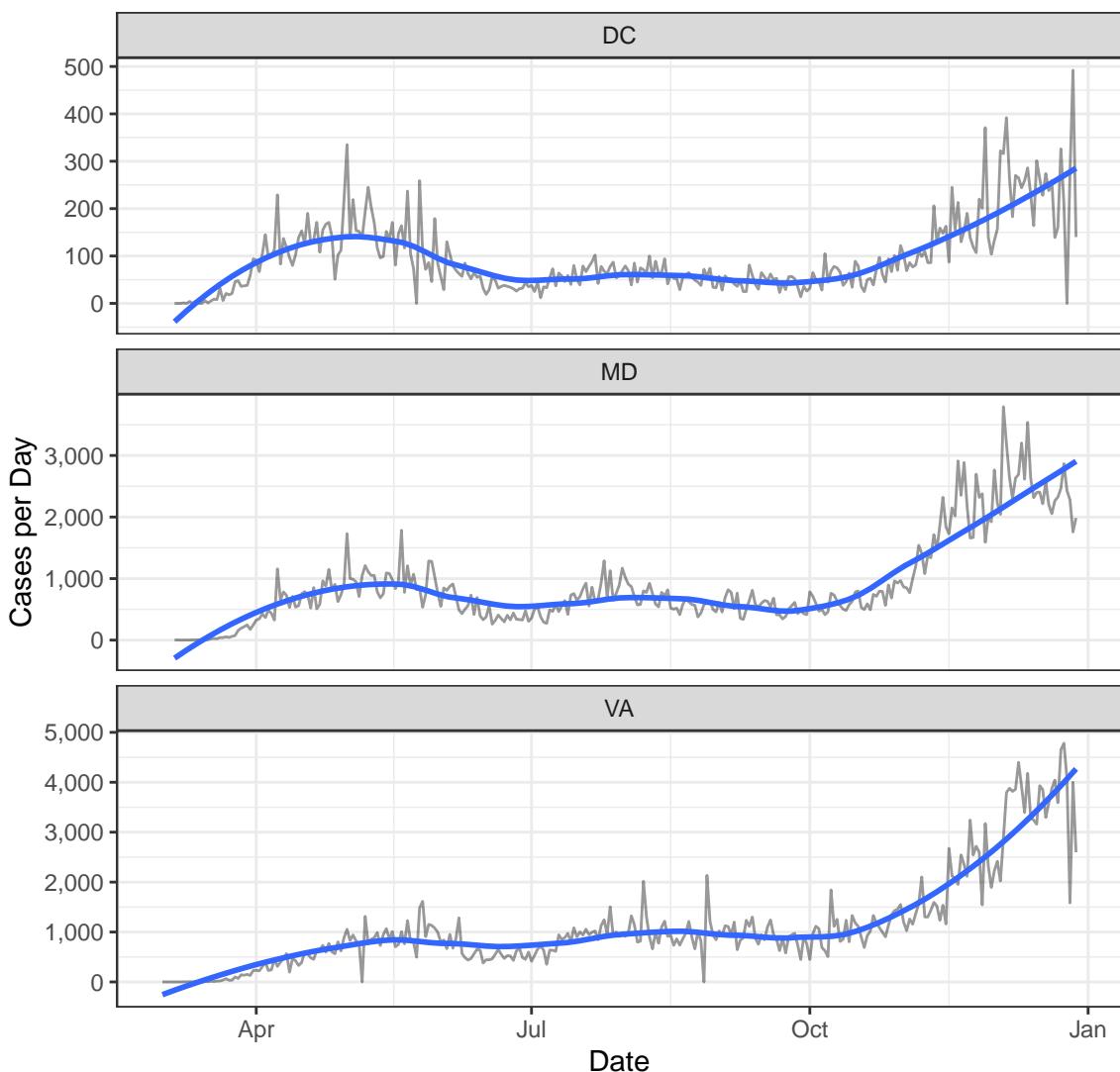




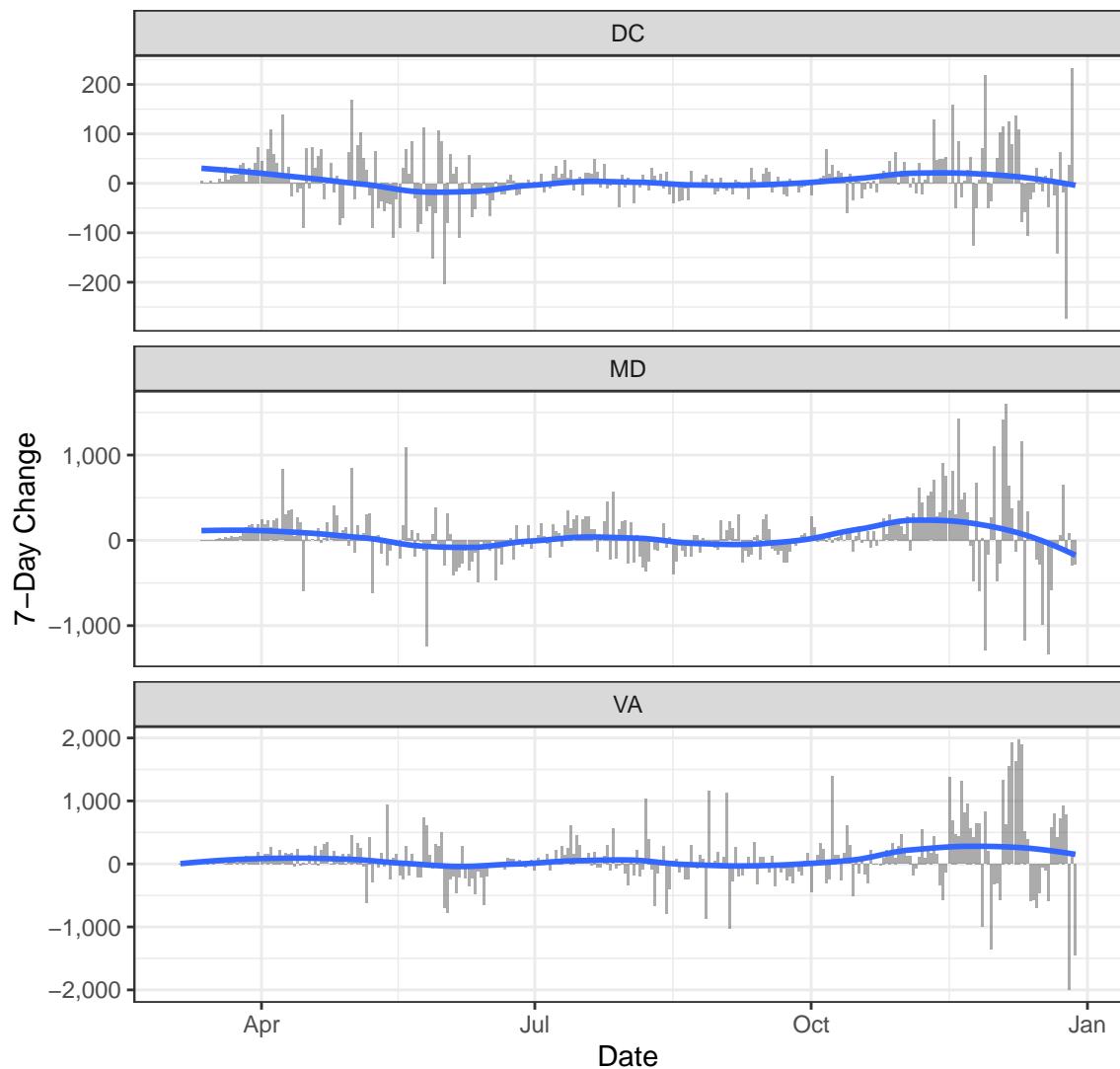
Cases

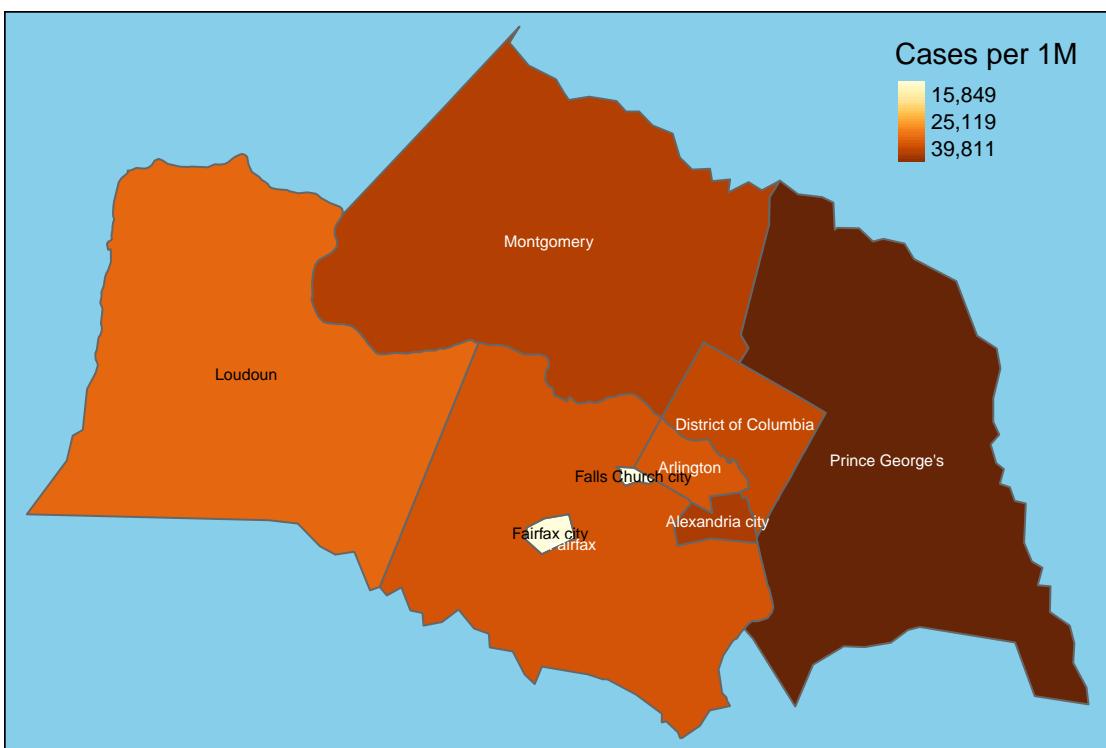
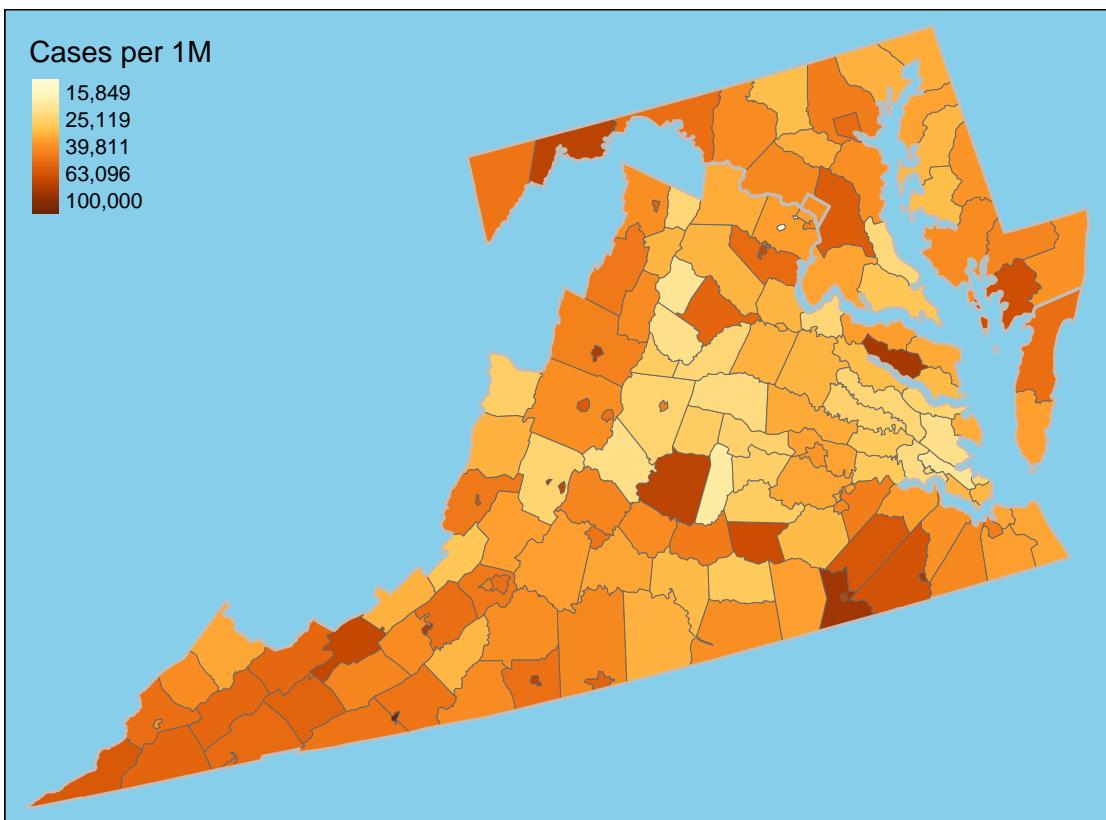


New Cases

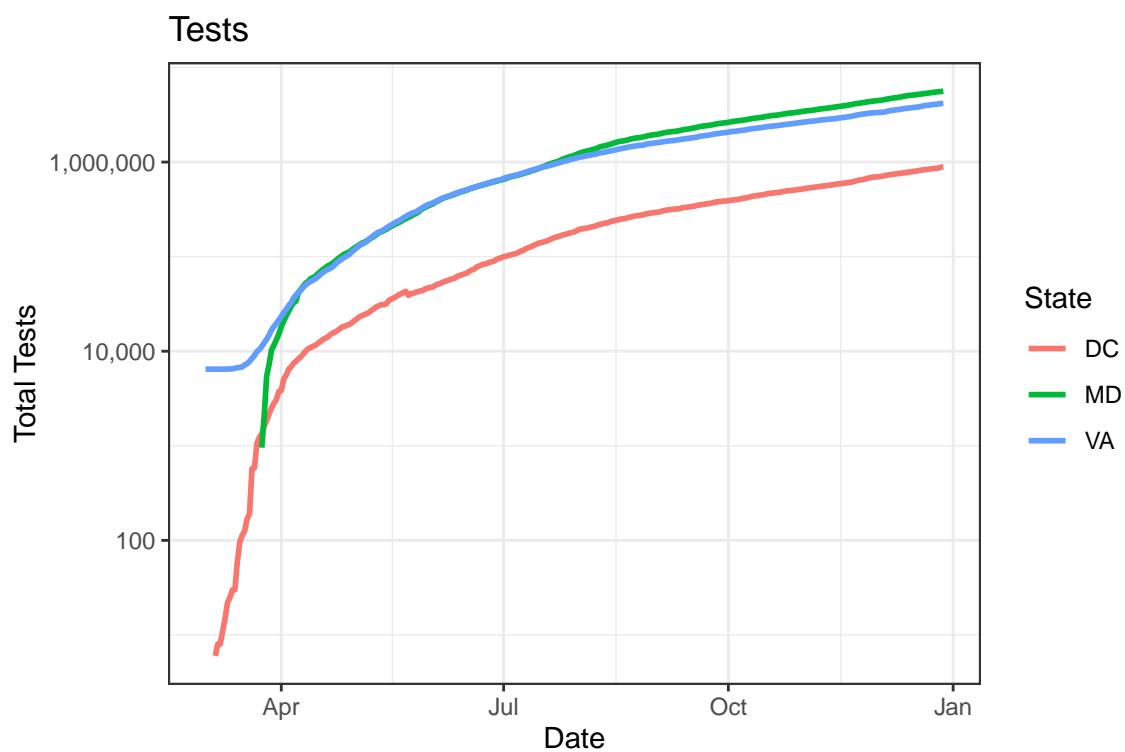


One-Week Change in Daily Cases

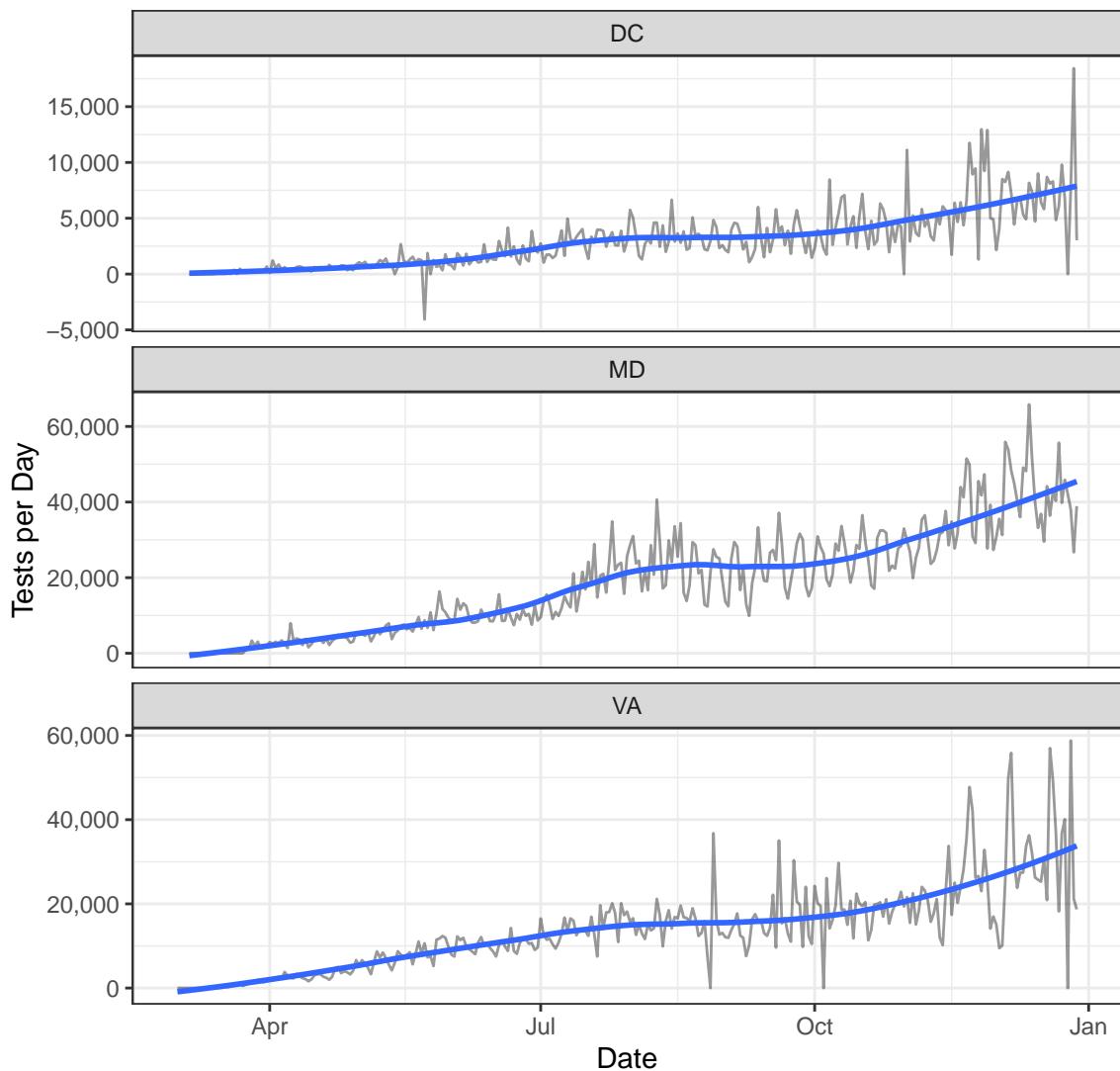




Testing



New Tests



Positive Test Rate

