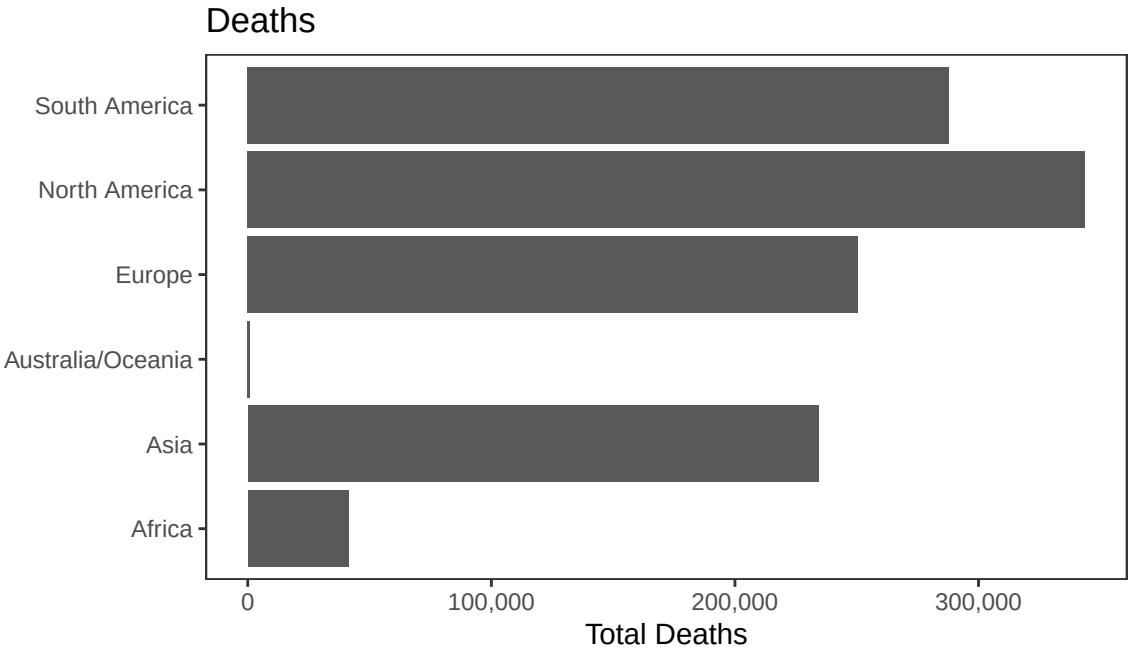
Erik's Covid-19 Chart Pack

Data updated 2020-10-26 20:10:46. 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 43,359,084 confirmed Covid-19 cases and 1,159,126 deaths worldwide.



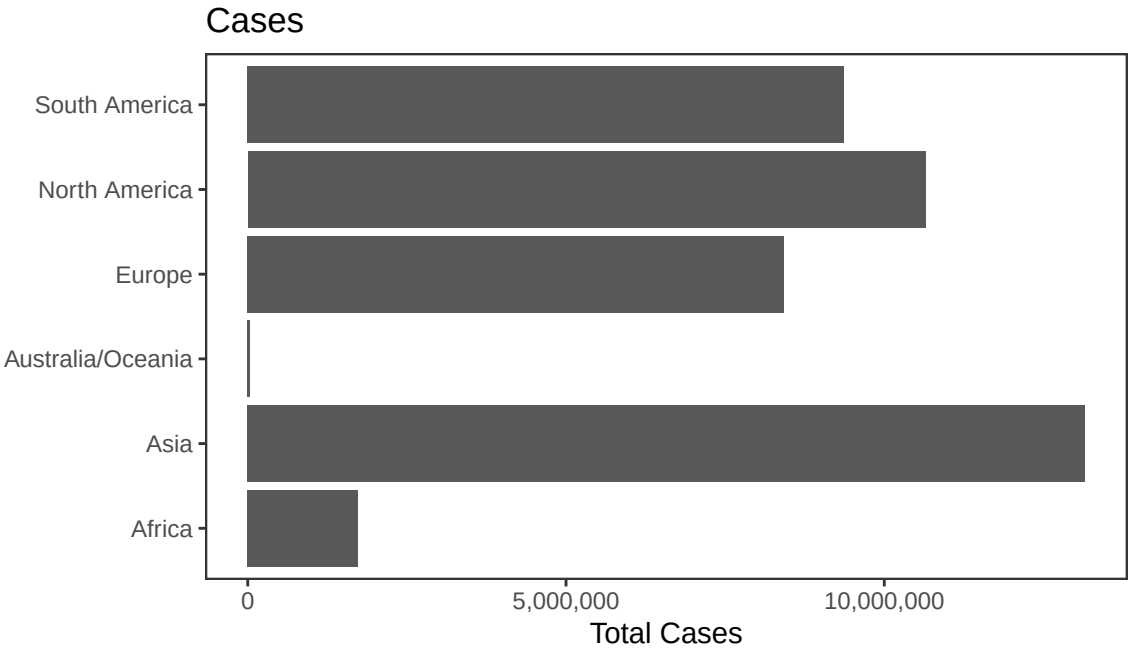
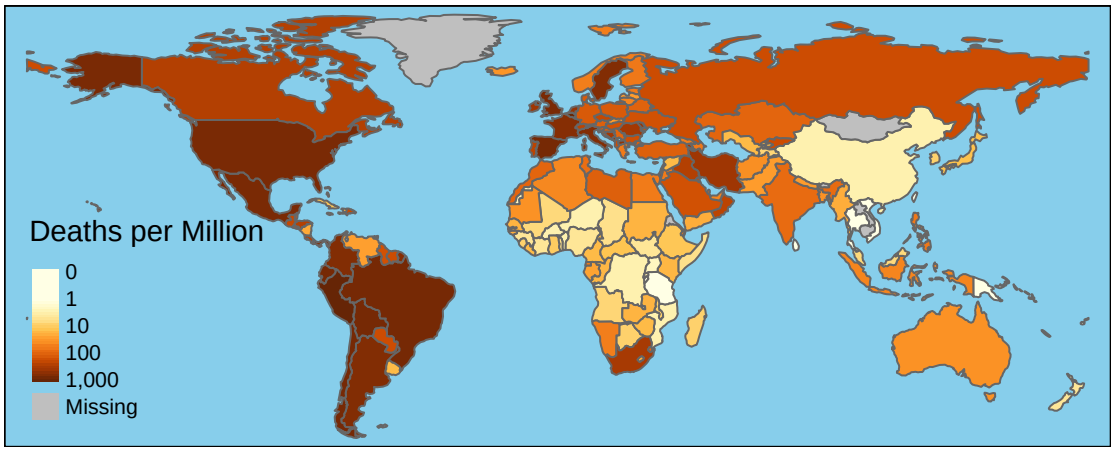
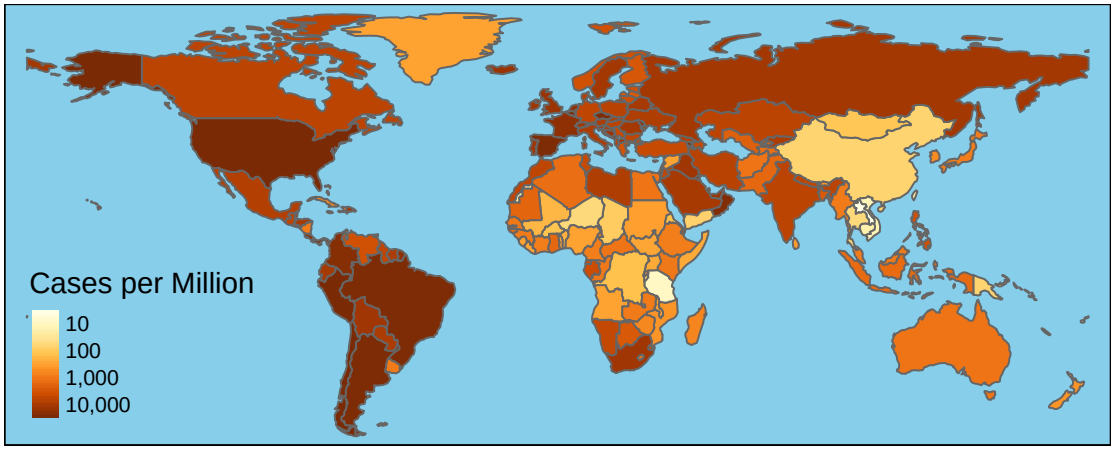
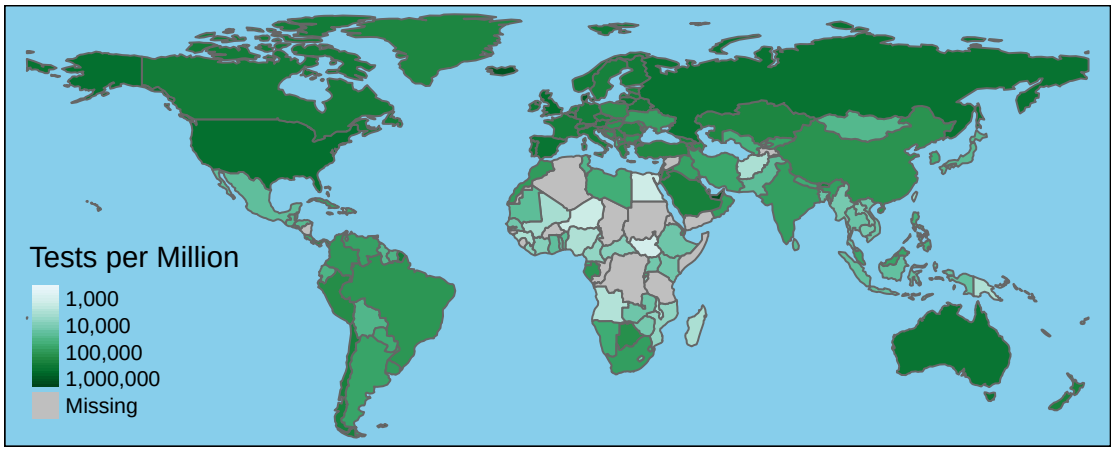


Table 1: Top Countries by Total Cases

Country	Cases	Deaths	New Cases	New Deaths
USA	8,892,861	230,516	63,429	442
India	7,909,050	119,030	45,158	463
Brazil	5,394,128	157,163	12,904	237
Russia	1,513,877	26,050	16,710	229
Spain	1,139,102	34,938	13,658	93
France	1,138,507	34,761	52,010	116
Argentina	1,090,589	28,896	9,253	283
Colombia	1,015,885	30,154	8,174	154
Peru	888,715	34,149	2,501	54
Mexico	886,800	88,743	6,025	431
UK	873,800	44,896	19,790	151
South Africa	715,868	18,968	1,622	24
Iran	568,896	32,616	6,191	296
Italy	525,777	37,338	21,268	128
Chile	502,063	13,944	1,540	52
Iraq	451,707	10,623	2,554	55
Germany	437,637	10,138	9,829	27
Bangladesh	398,815	5,803	1,308	23
Indonesia	389,712	13,299	3,732	94
Philippines	370,023	6,977	2,218	43


Deaths per Million
0
1
10
100
1,000
Missing


Cases per Million
10
100
1,000
10,000


Tests per Million
1,000
10,000
100,000
1,000,000
Missing

National Data

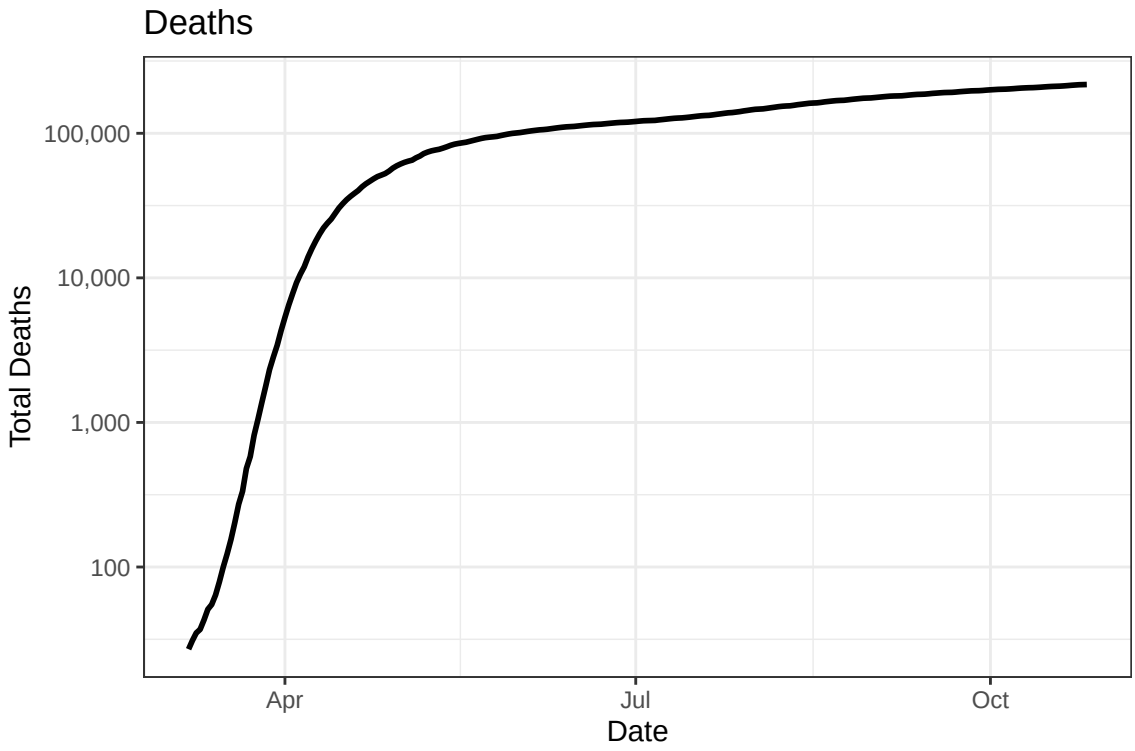
There have been 8,660,366 confirmed Covid-19 cases and 217,418 deaths in the United States.

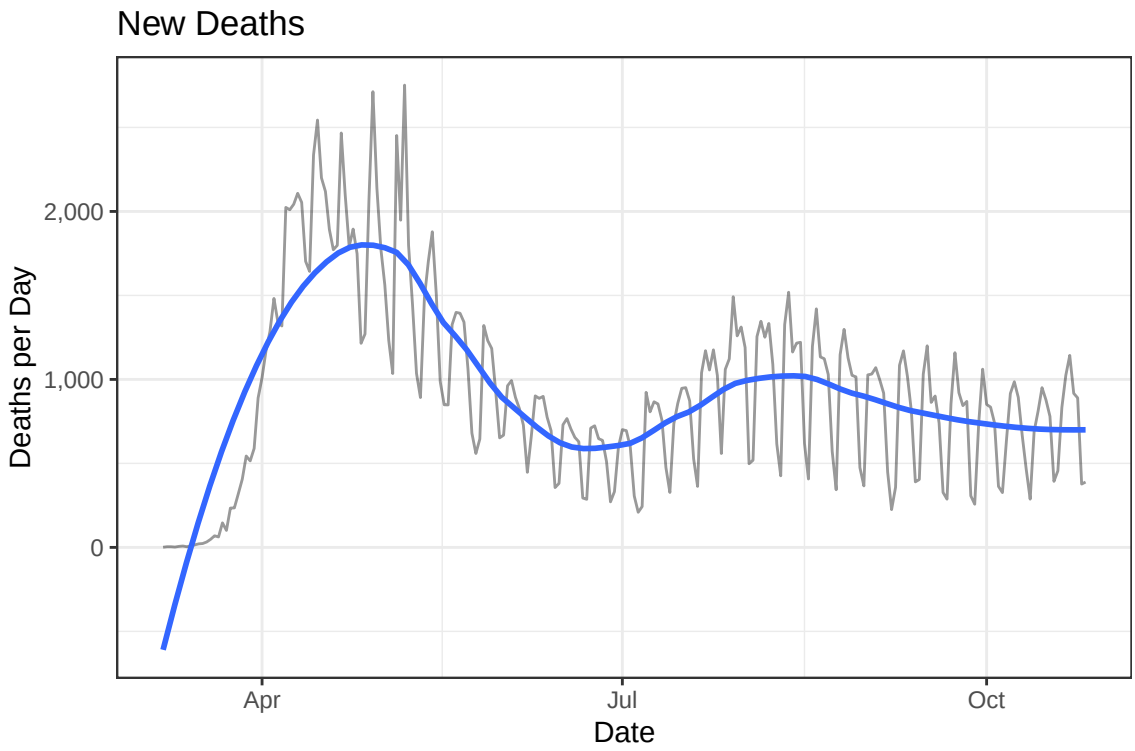
Table 2: U.S. Deaths and Cases over the Last Two Weeks

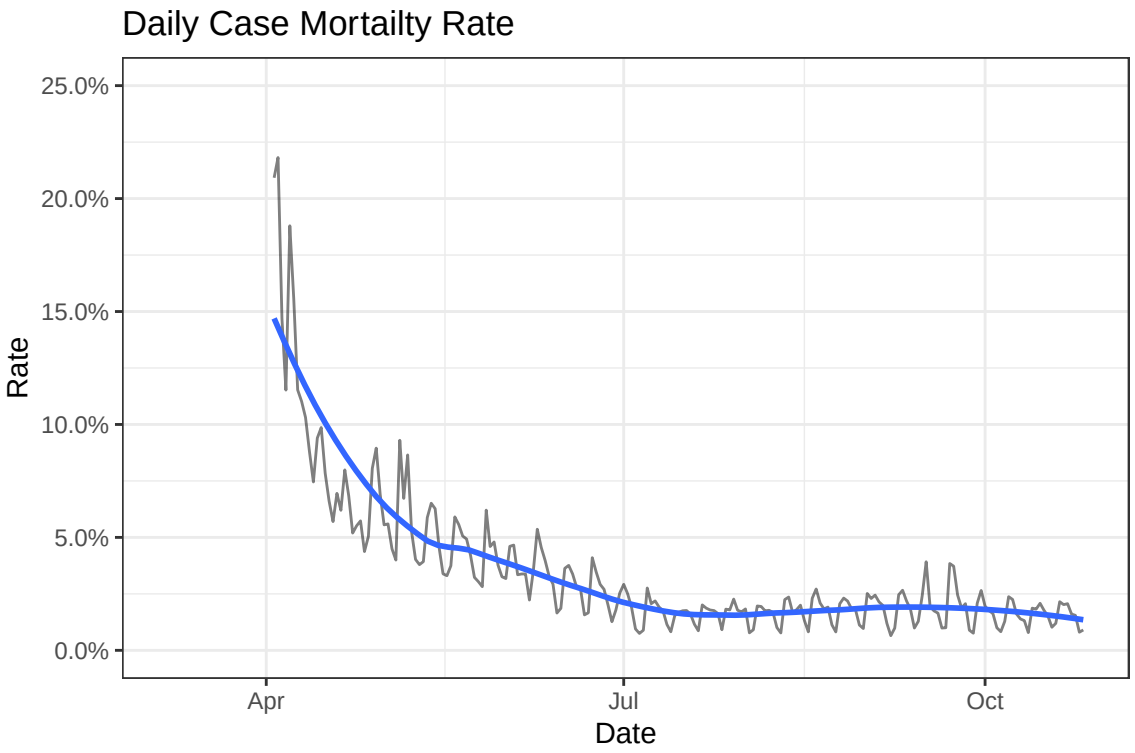
Date	Cases	Deaths	New Cases	New Deaths
2020-10-26	8,660,366	217,418	62,315	389
2020-10-25	8,598,051	217,029	65,687	377
2020-10-24	8,532,364	216,652	83,015	890
2020-10-23	8,449,349	215,762	83,128	917
2020-10-22	8,366,221	214,845	75,248	1,143
2020-10-21	8,290,973	213,702	58,606	1,024
2020-10-20	8,232,367	212,678	60,664	832
2020-10-19	8,171,703	211,846	57,148	456
2020-10-18	8,114,555	211,390	48,922	393
2020-10-17	8,065,633	210,997	57,943	780
2020-10-16	8,007,690	210,217	68,124	877
2020-10-15	7,939,566	209,340	63,172	951
2020-10-14	7,876,394	208,389	56,797	811
2020-10-13	7,819,597	207,578	48,387	690

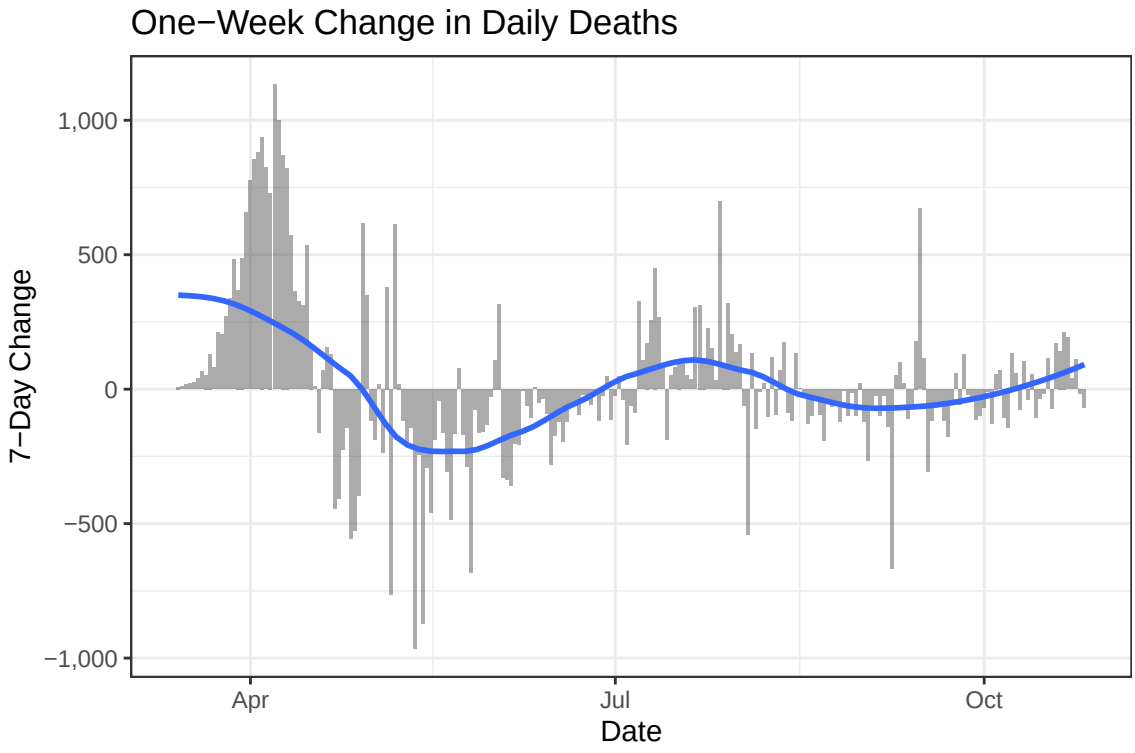
Deaths

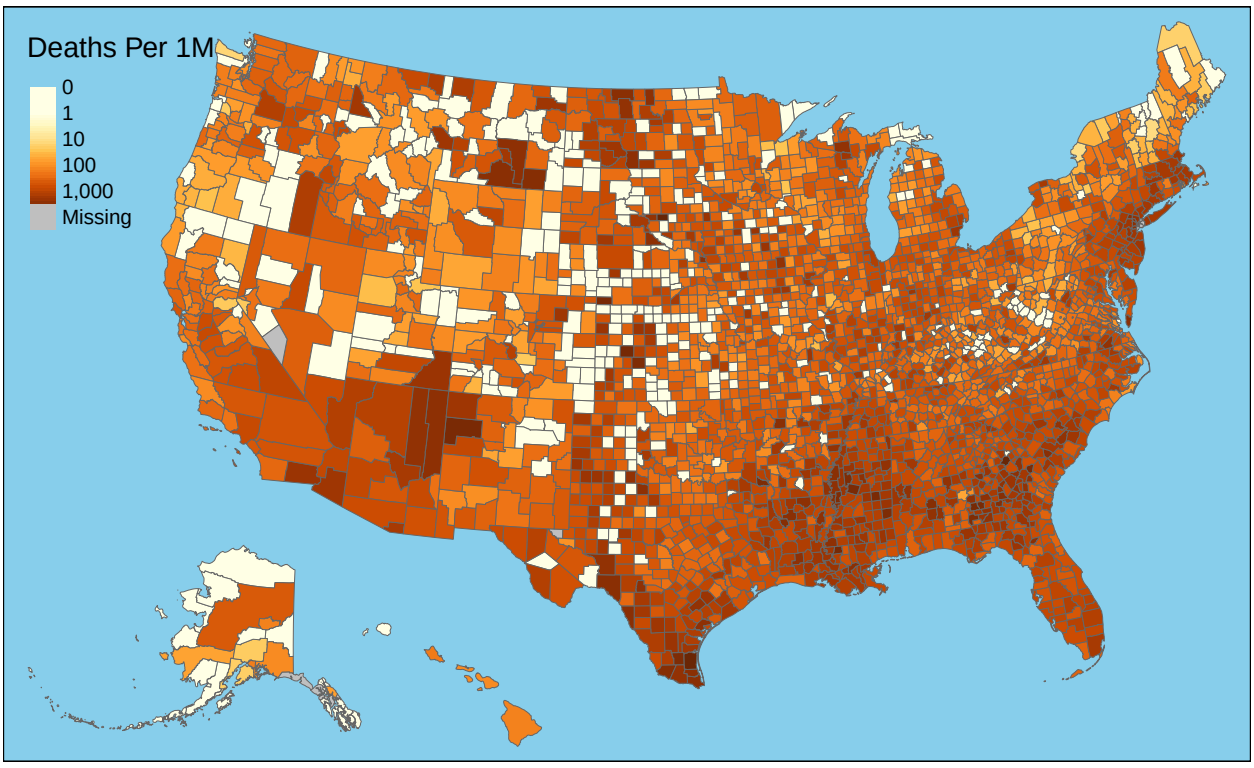
Because the effects of the virus can take several weeks to manifest in patients, deaths are a lagging indicator of contagion, but they may be a more reliable than case counts, which are a function of both the prevalence of the disease and the rate of testing. The case mortality rate is a very crude indicator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





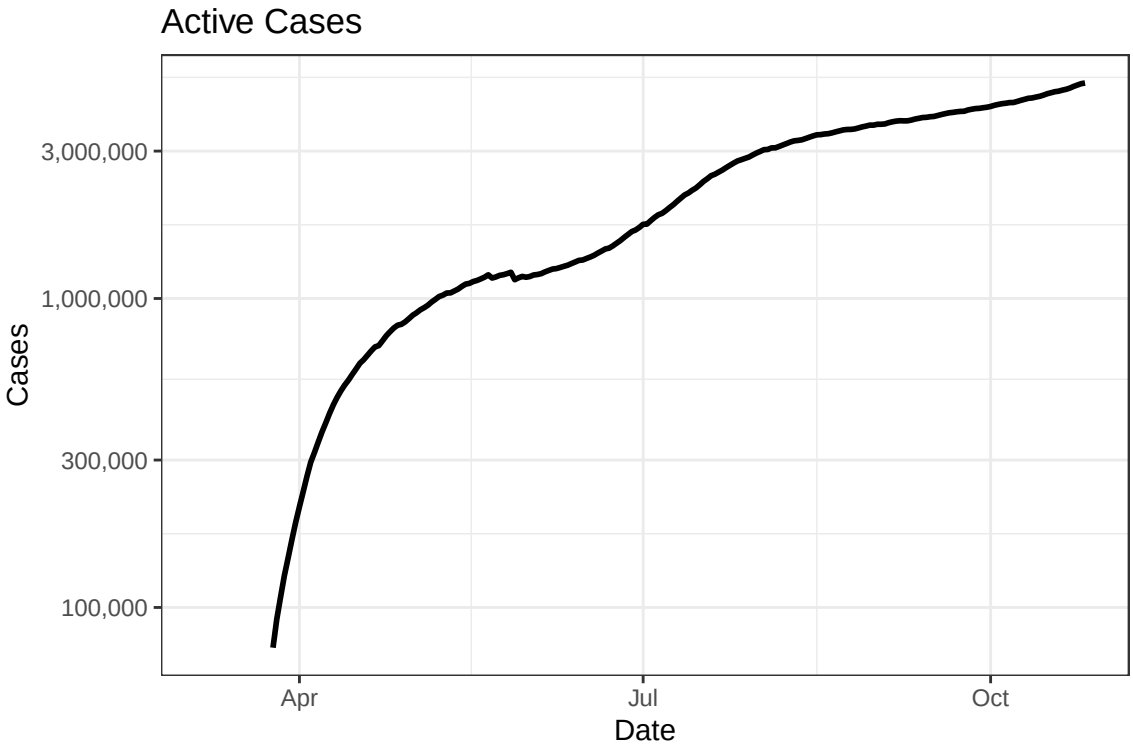

Daily Case Mortailty Rate
25.0%
20.0%
15.0%
10.0%
5.0%
0.0%
Rate
Apr
Jul
Oct
Date

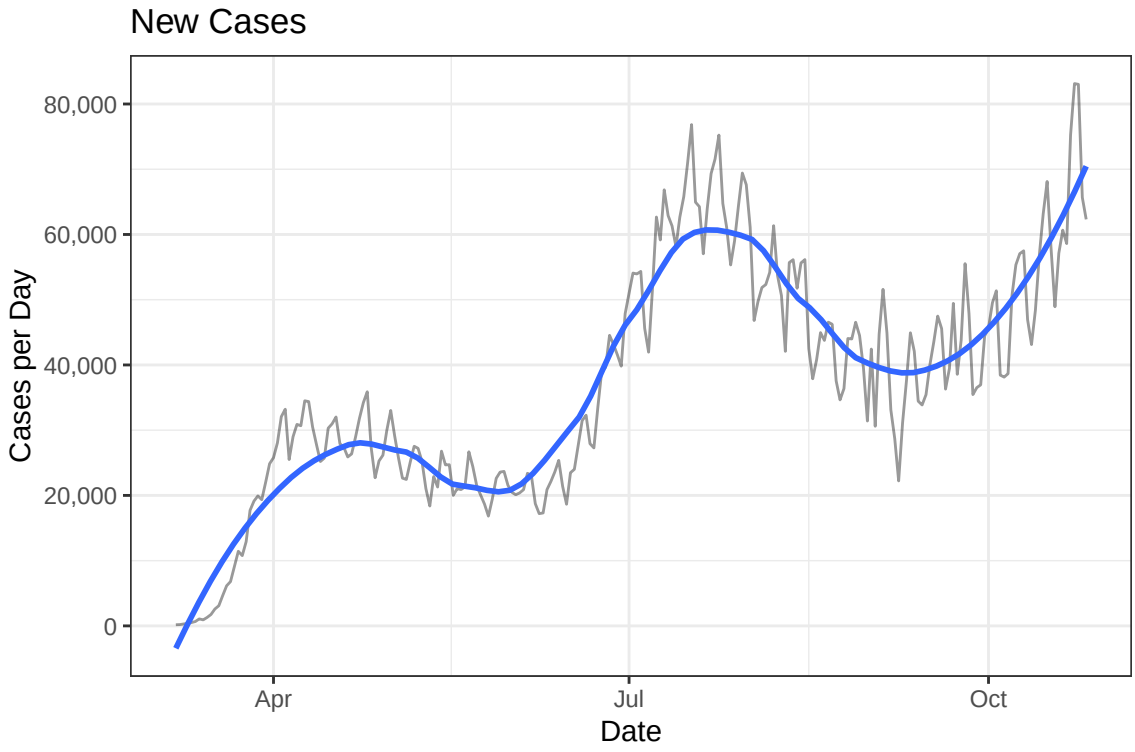

One−Week Change in Daily Deaths
1,000
500
0
−500
−1,000
7−Day Change
Apr
Jul
Oct
Date

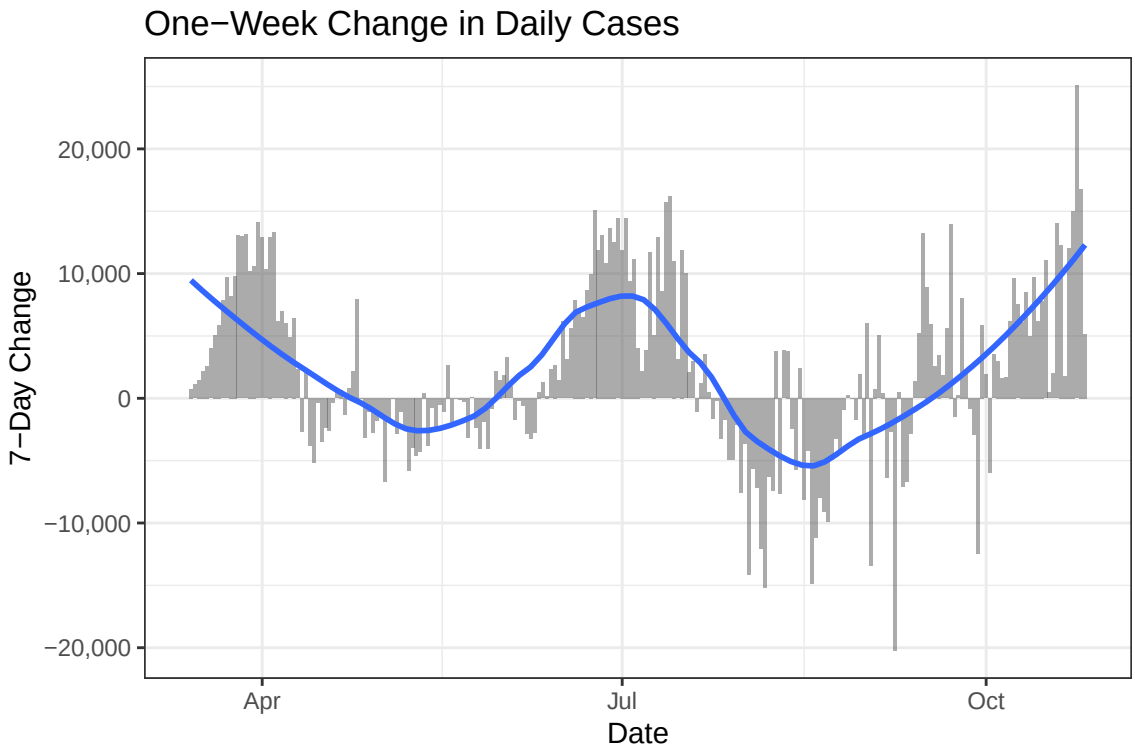

Deaths Per 1M
0
1
10
100
1,000
Missing

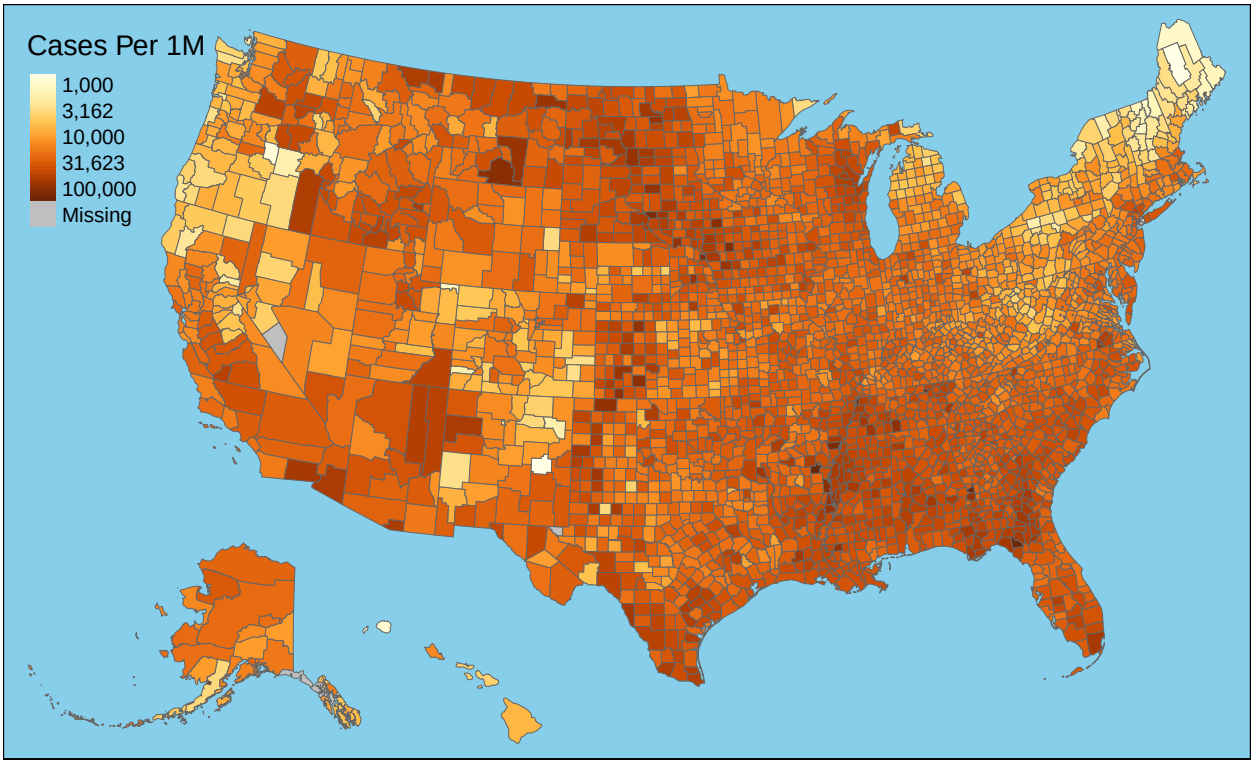
Cases

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



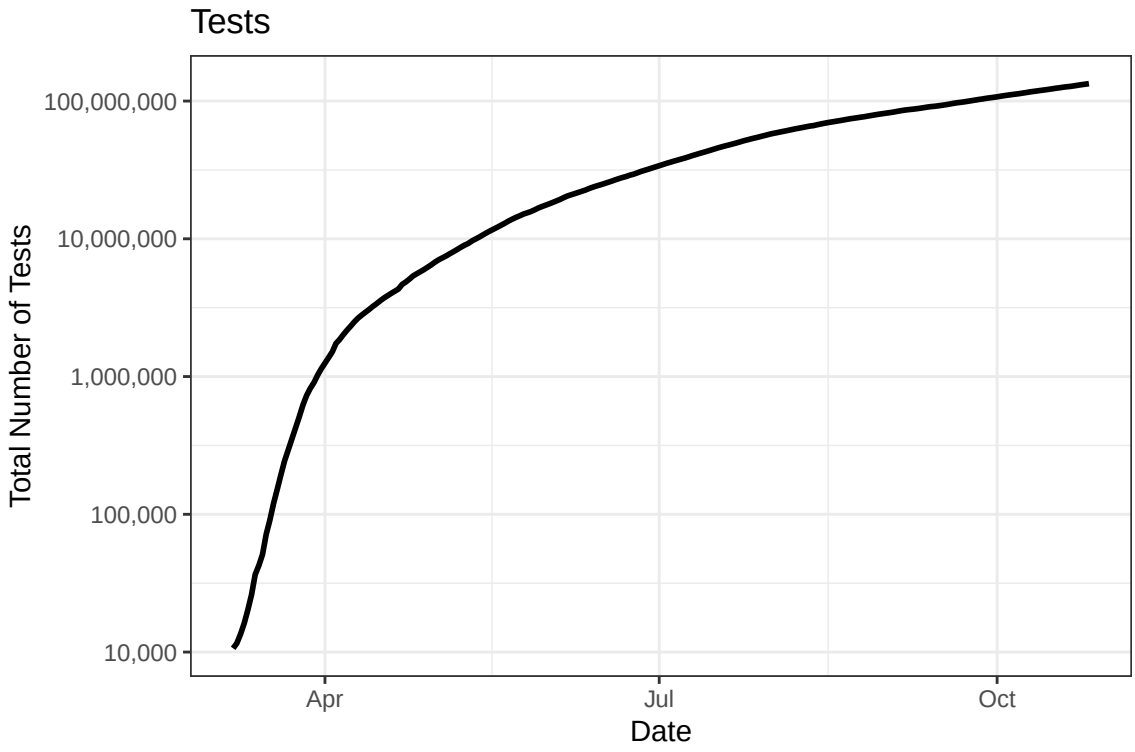


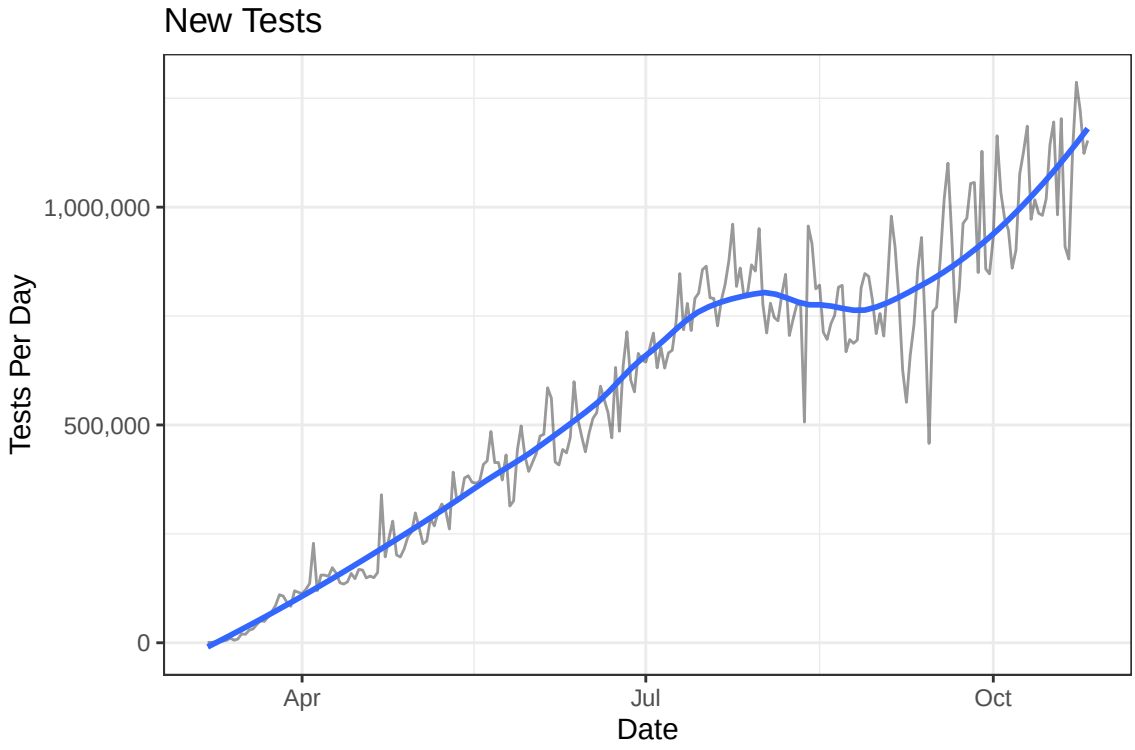

One−Week Change in Daily Cases
20,000
10,000
0
−10,000
−20,000
7−Day Change
Apr
Jul
Oct
Date

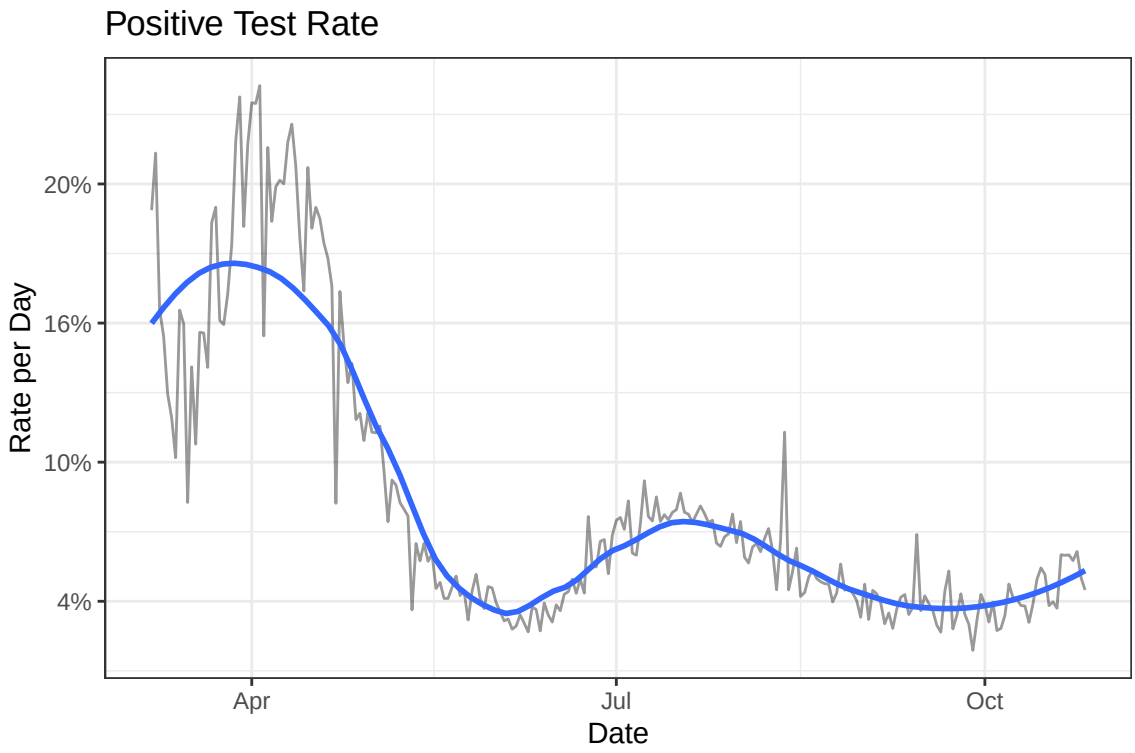

Cases Per 1M
1,000
3,162
10,000
31,623
100,000
Missing

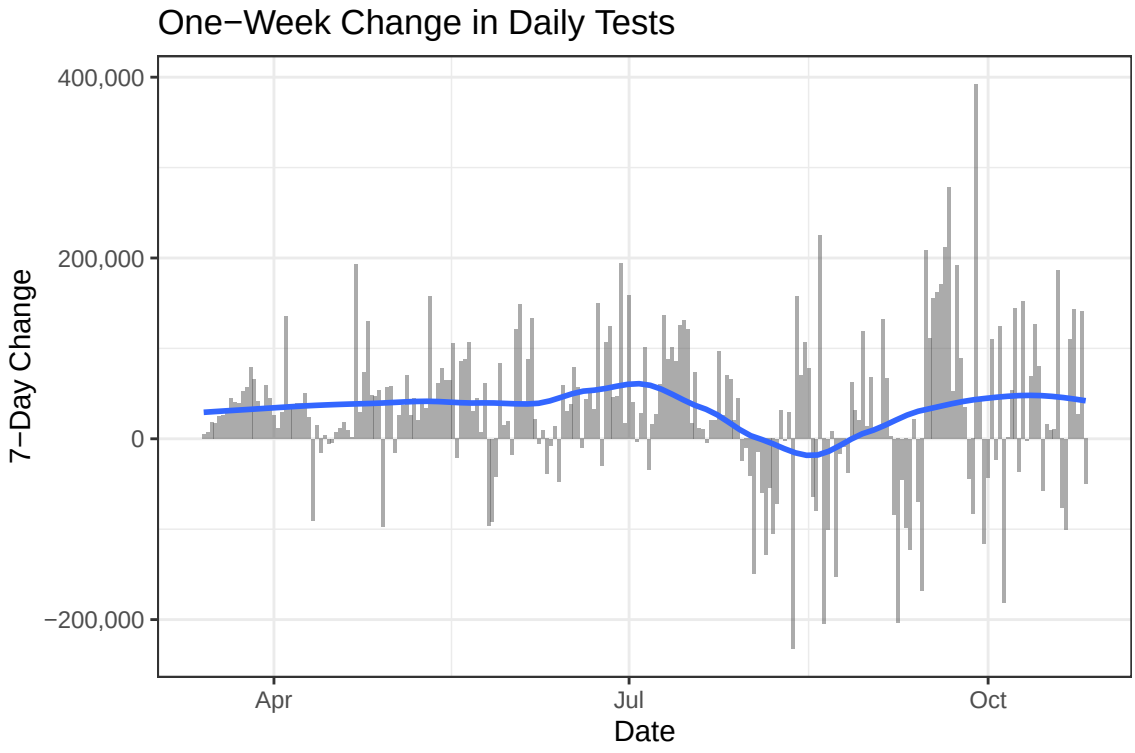
Testing

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.





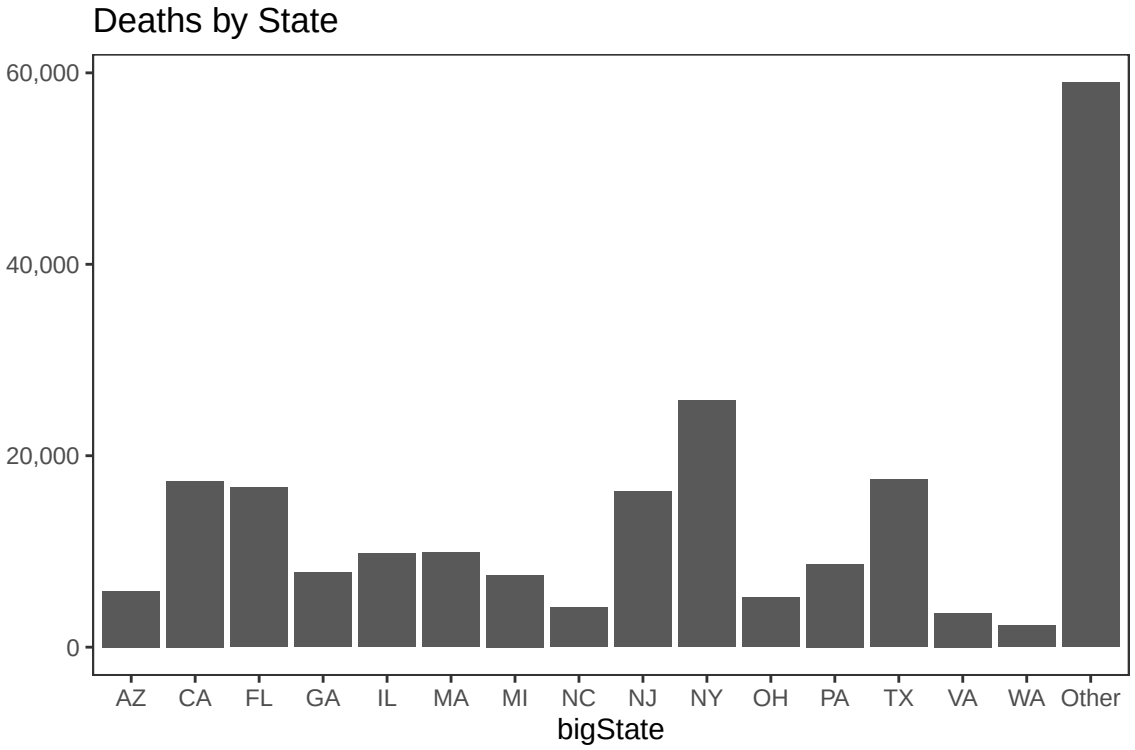

Positive Test Rate
20%
16%
10%
4%
Rate per Day
Apr
Jul
Oct
Date

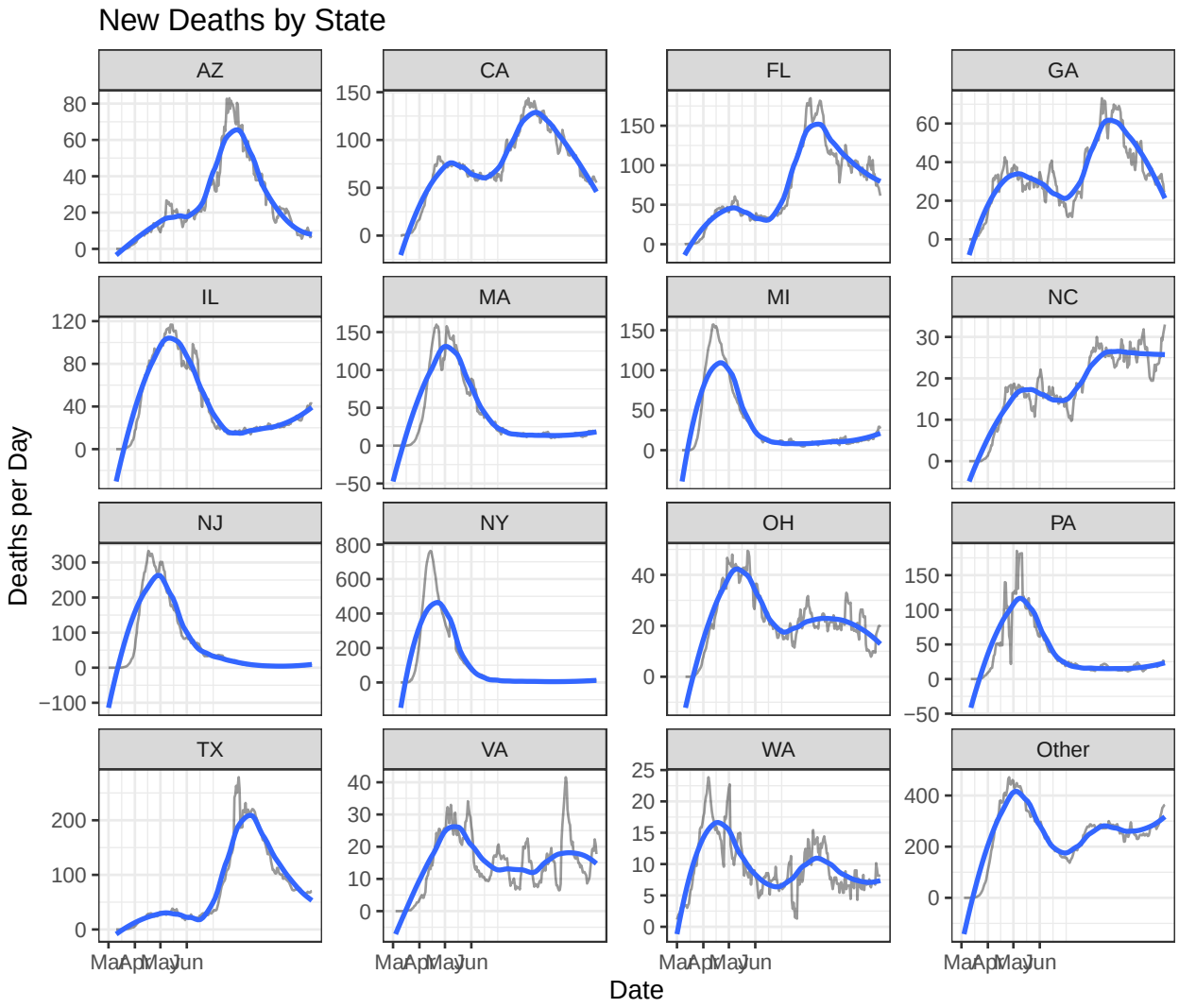

One−Week Change in Daily Tests
400,000
200,000
0
−200,000
7−Day Change
Apr
Jul
Oct
Date

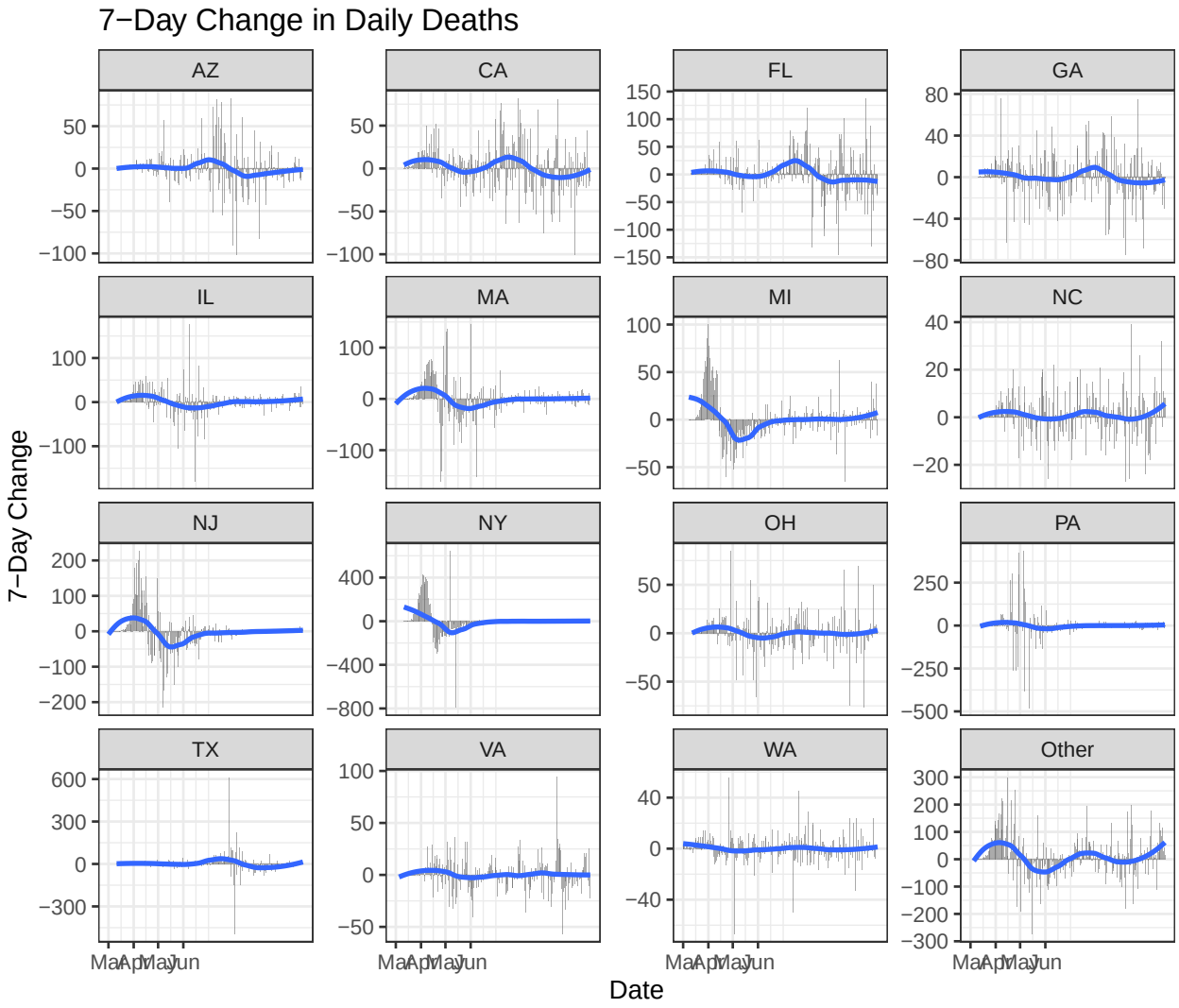
State Data

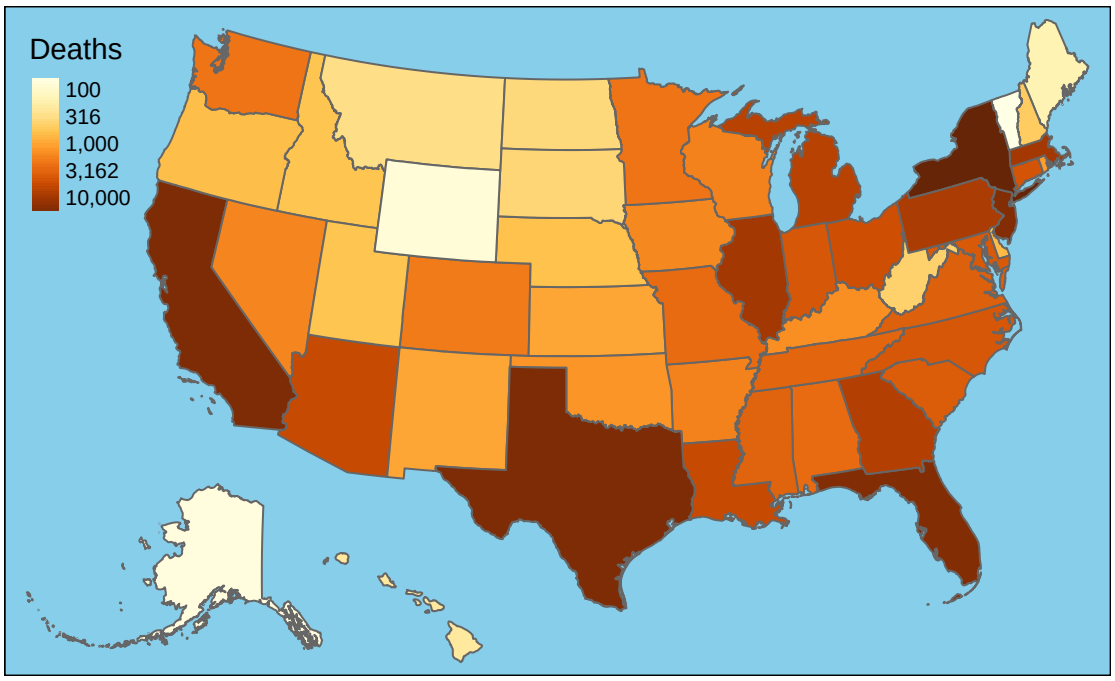
This section summarizes state-level data. Most data are reported for the largest 15 states by population, which account for NaN percent of the total U.S. population.

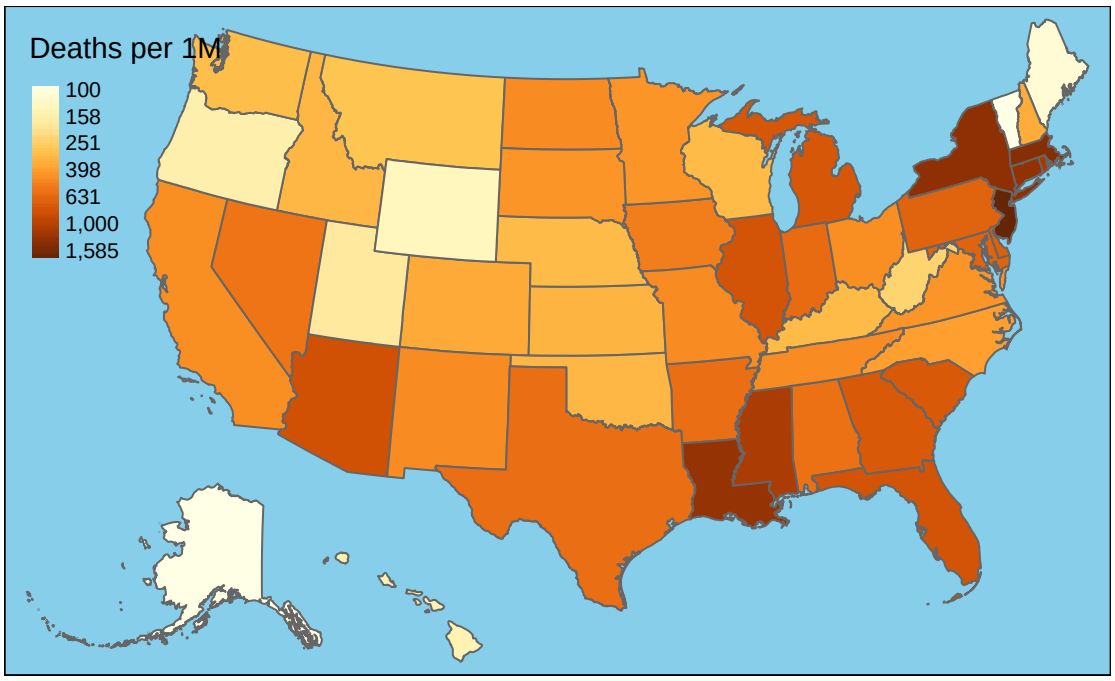
Deaths



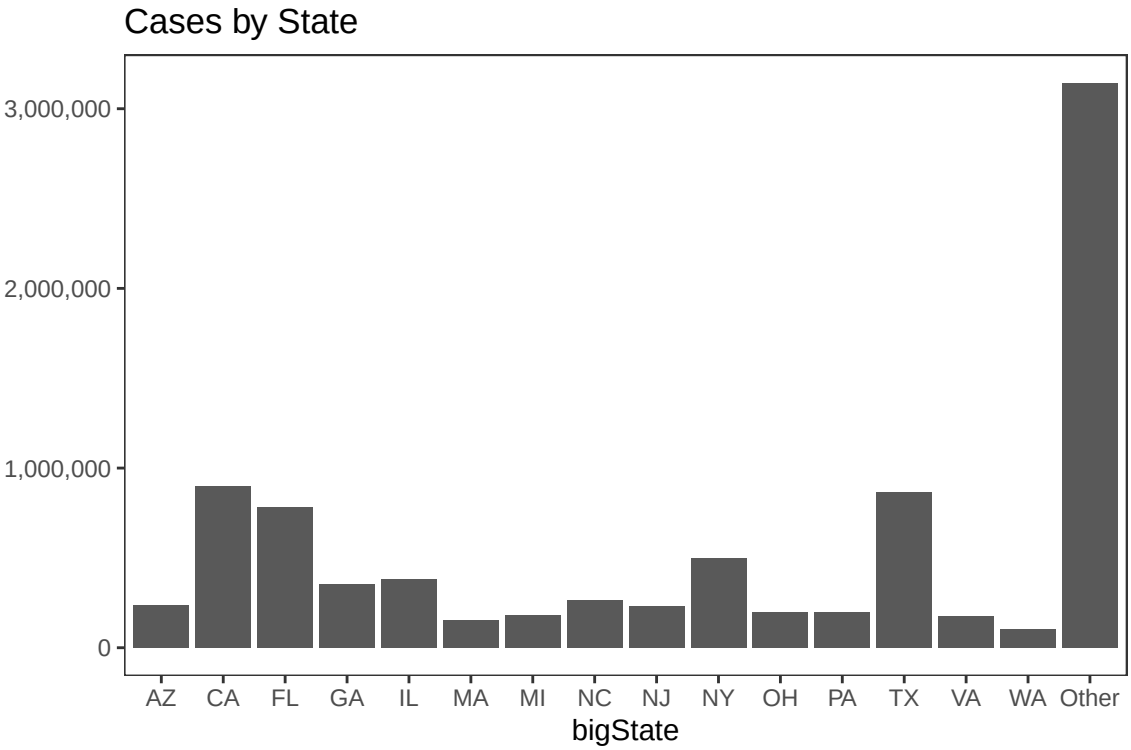

New Deaths by State
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
Deaths per Day
Date
Mar
Apr
May
Jun

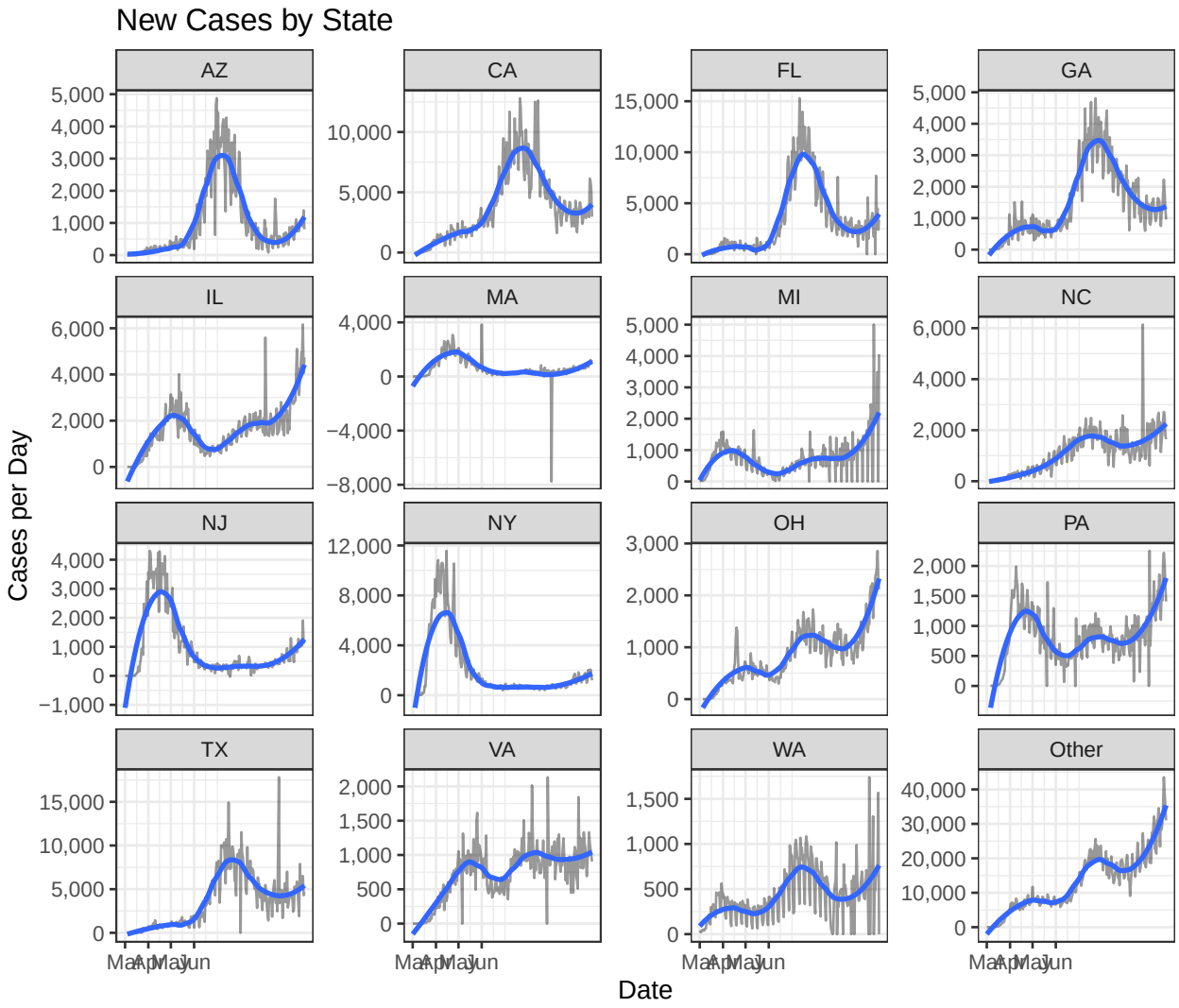

7−Day Change in Daily Deaths
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
7−Day Change
Date
Mar
Apr
May
Jun

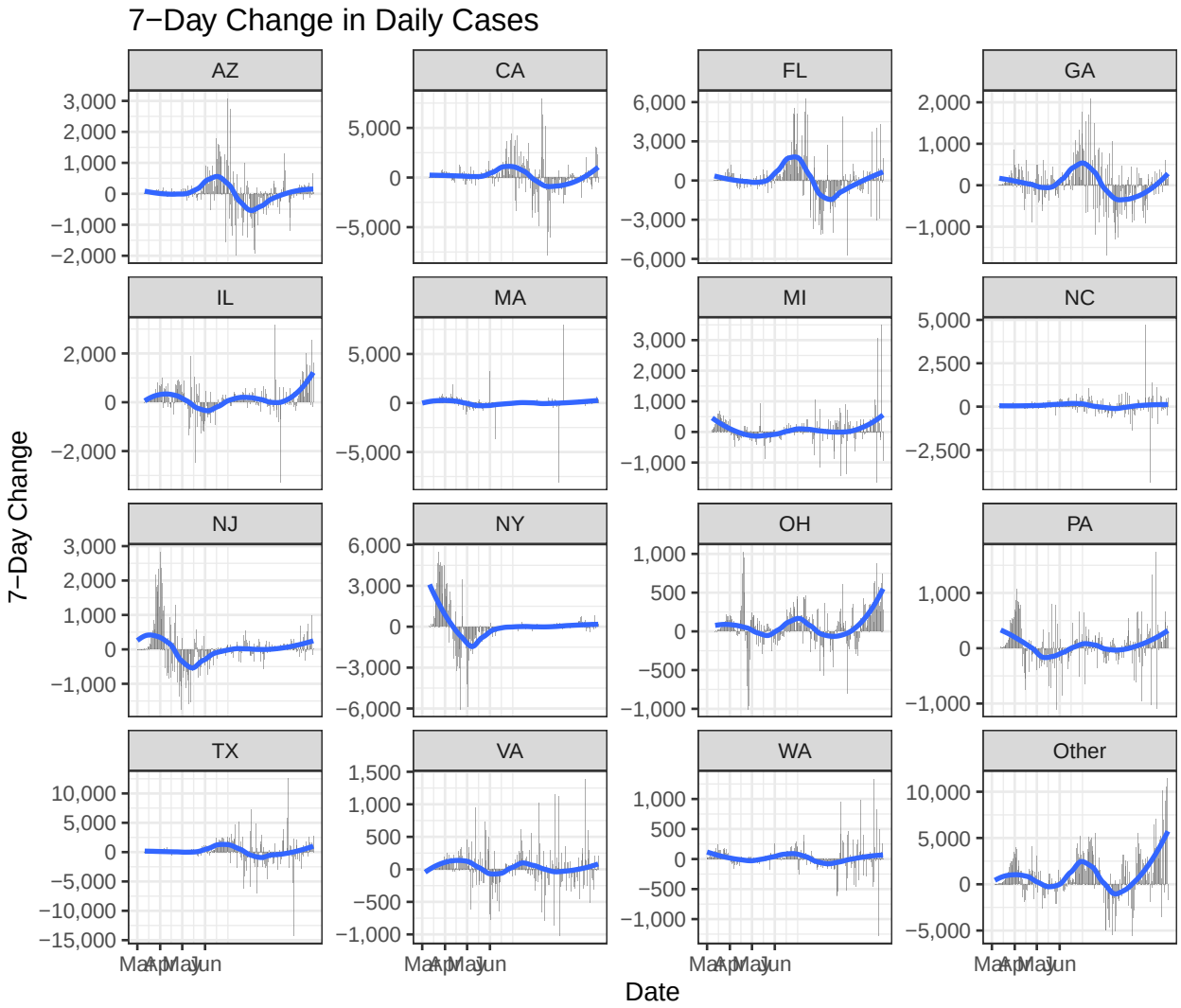

Deaths
100
316
1,000
3,162
10,000

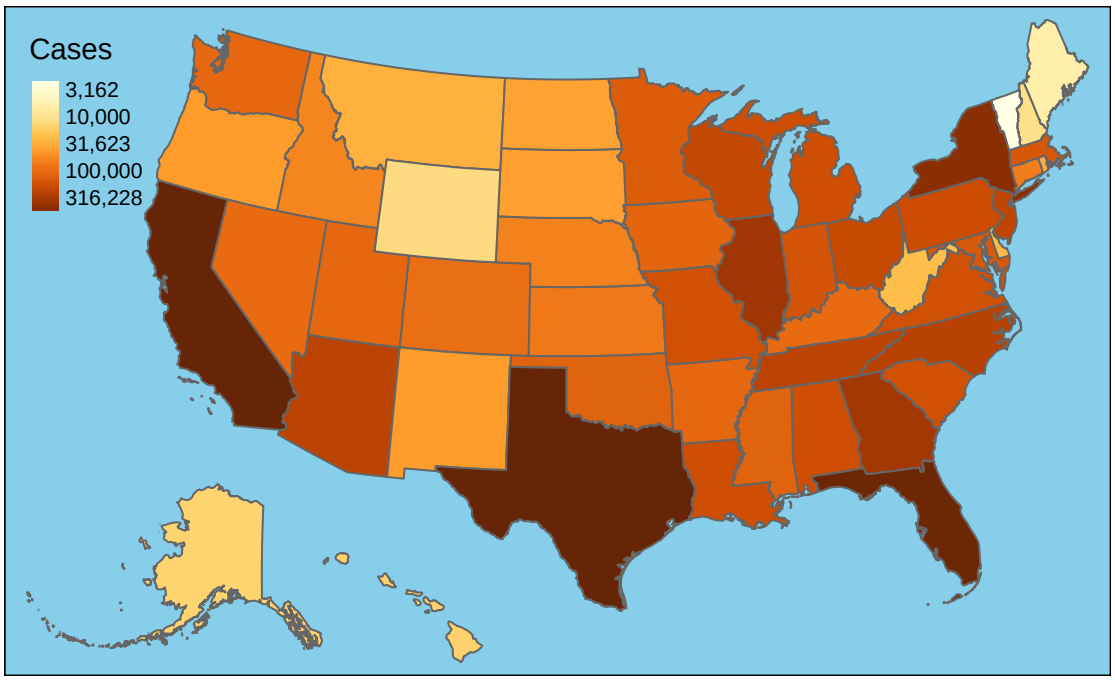

Deaths per 1M
100
158
251
398
631
1,000
1,585

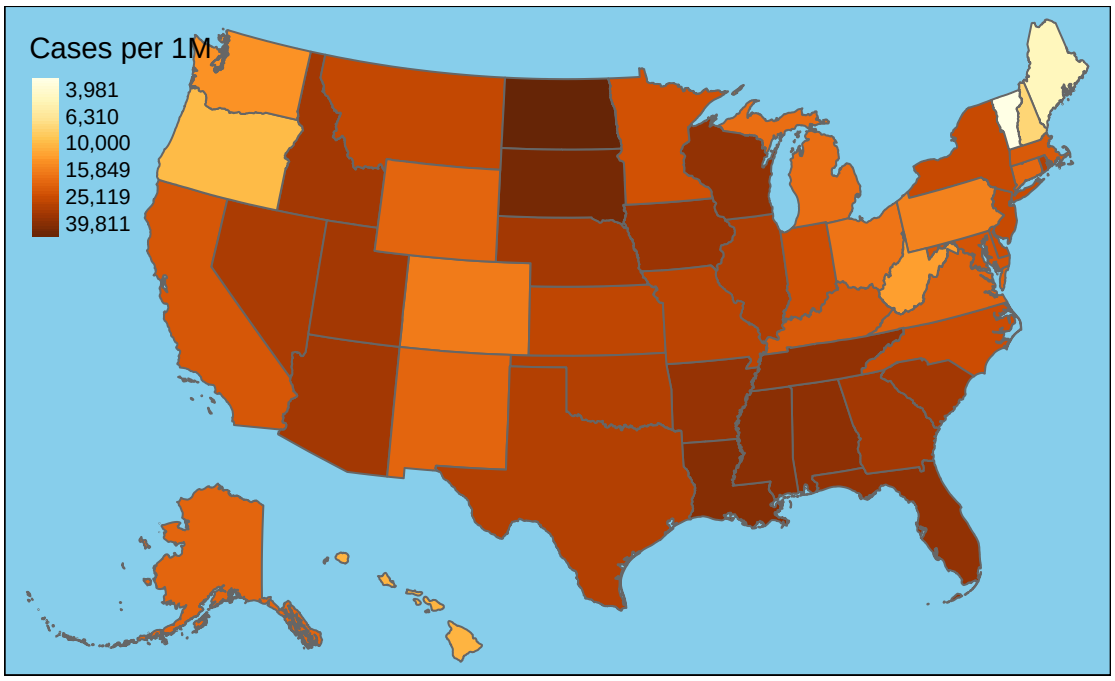
Cases


Cases by State
3,000,000
2,000,000
1,000,000
0
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
bigState

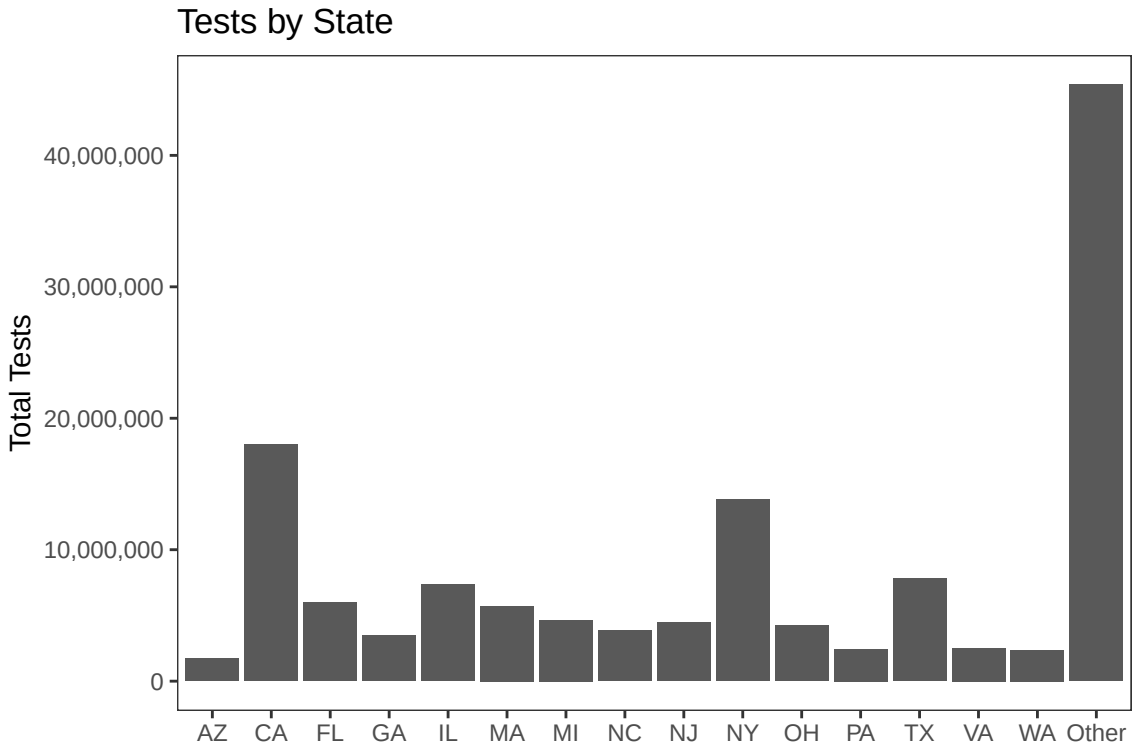

New Cases by State
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
Cases per Day
Date
Mar
Apr
May
Jun

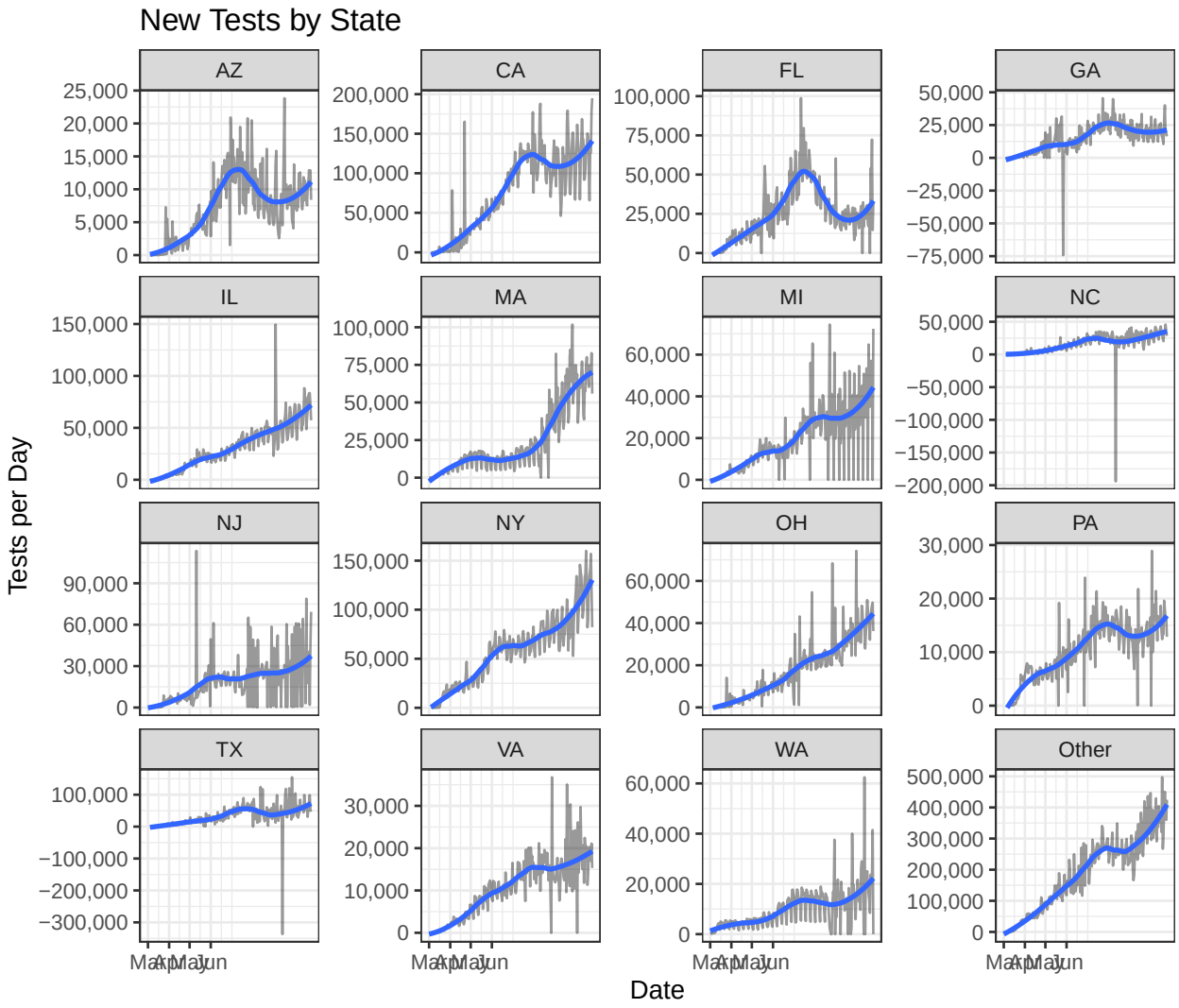

7−Day Change in Daily Cases
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
7−Day Change
Date
Mar
Apr
May
Jun

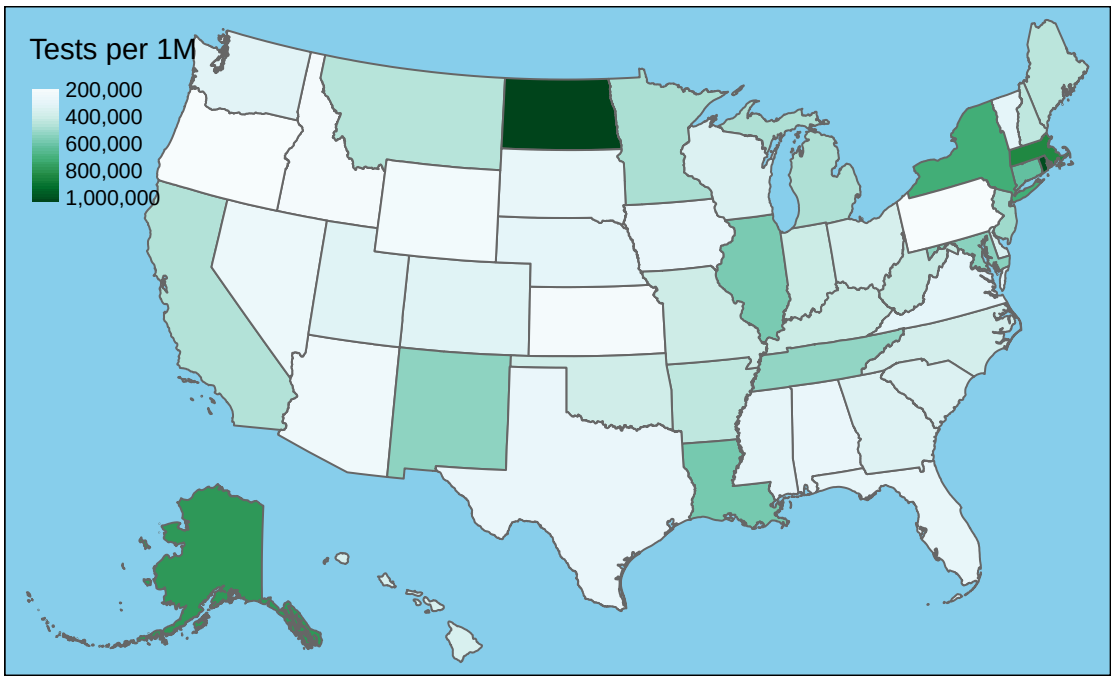

Cases
3,162
10,000
31,623
100,000
316,228

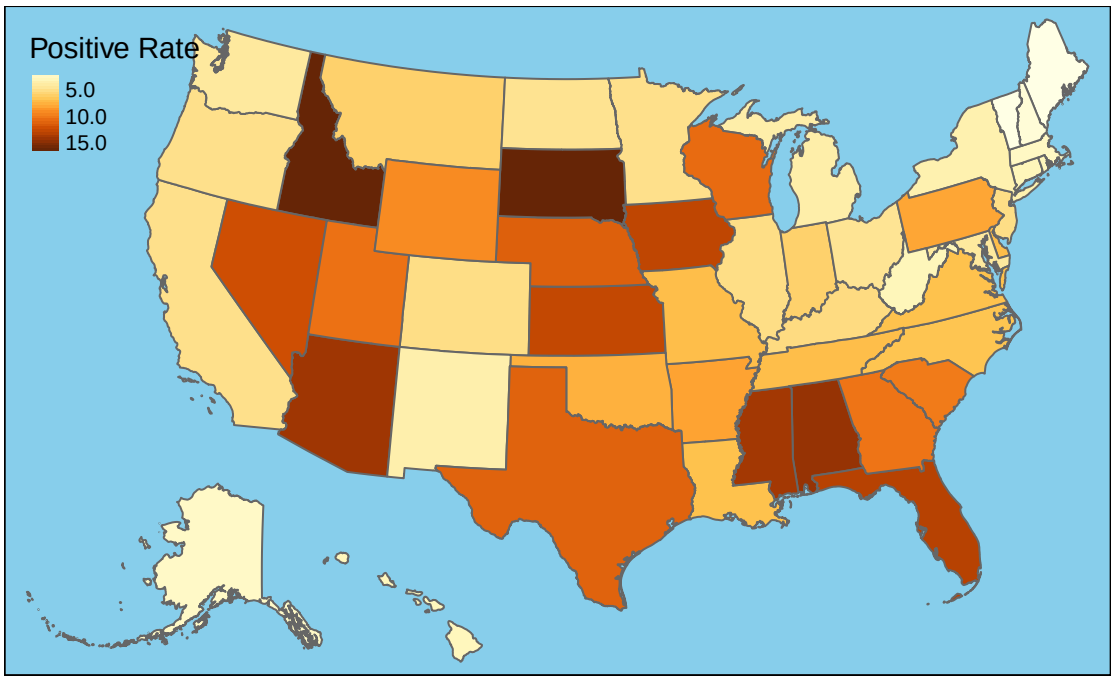

Cases per 1M
3,981
6,310
10,000
15,849
25,119
39,811

Testing

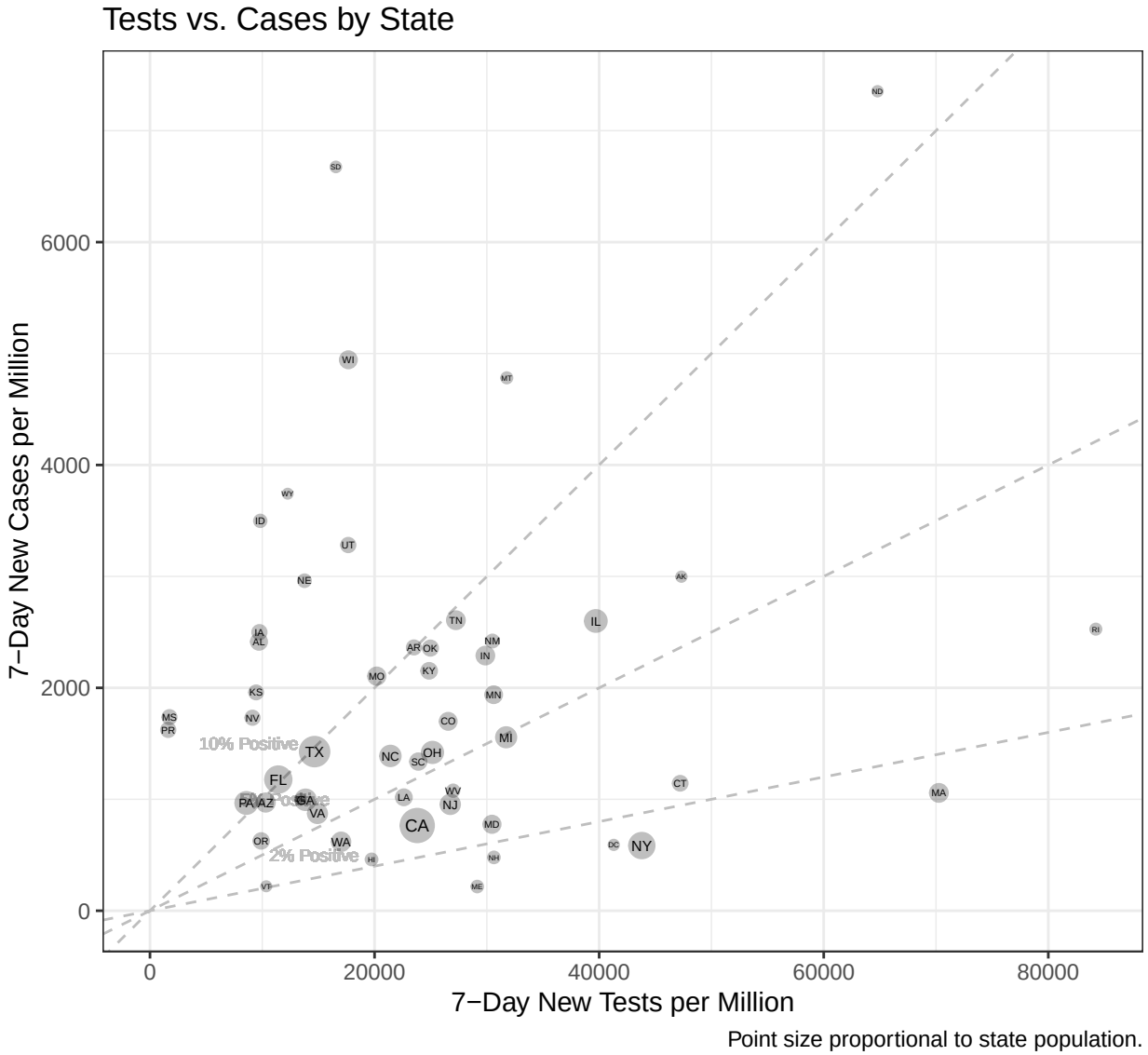

Tests by State
Total Tests
40,000,000
30,000,000
20,000,000
10,000,000
0
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other


New Tests by State
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
Tests per Day
Date
Mar
Apr
May
Jun


Tests per 1M
200,000
400,000
600,000
800,000
1,000,000


Positive Rate
5.0
10.0
15.0

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 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.



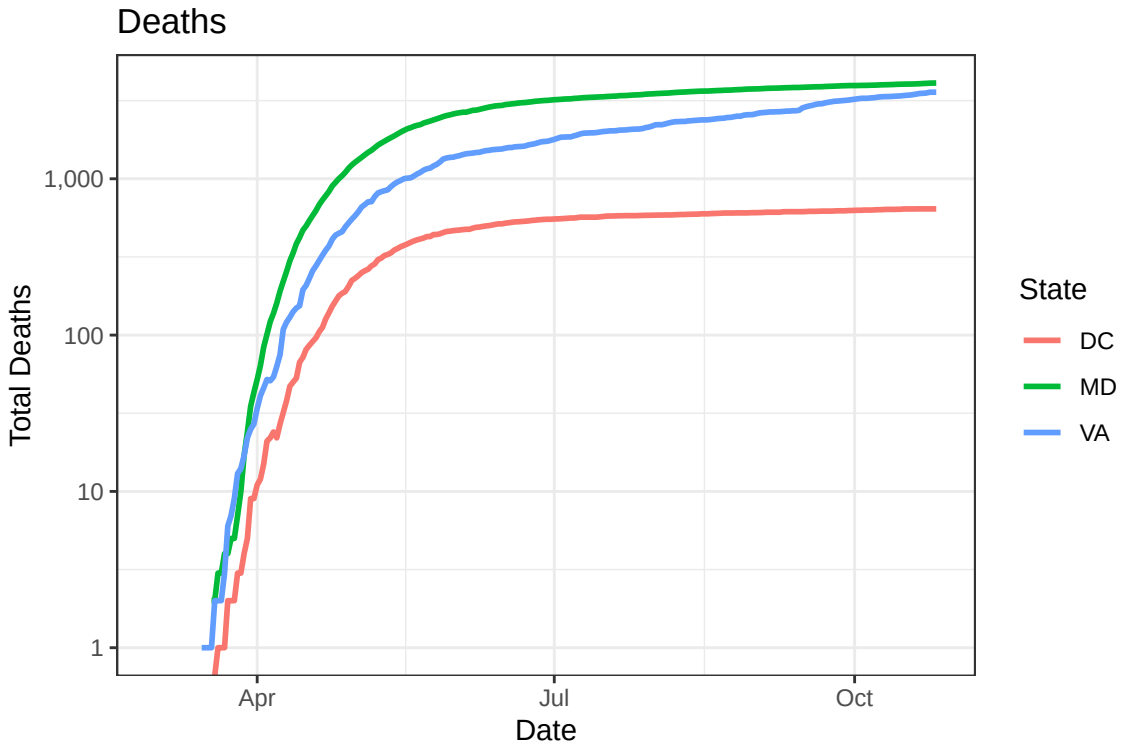
Local Data

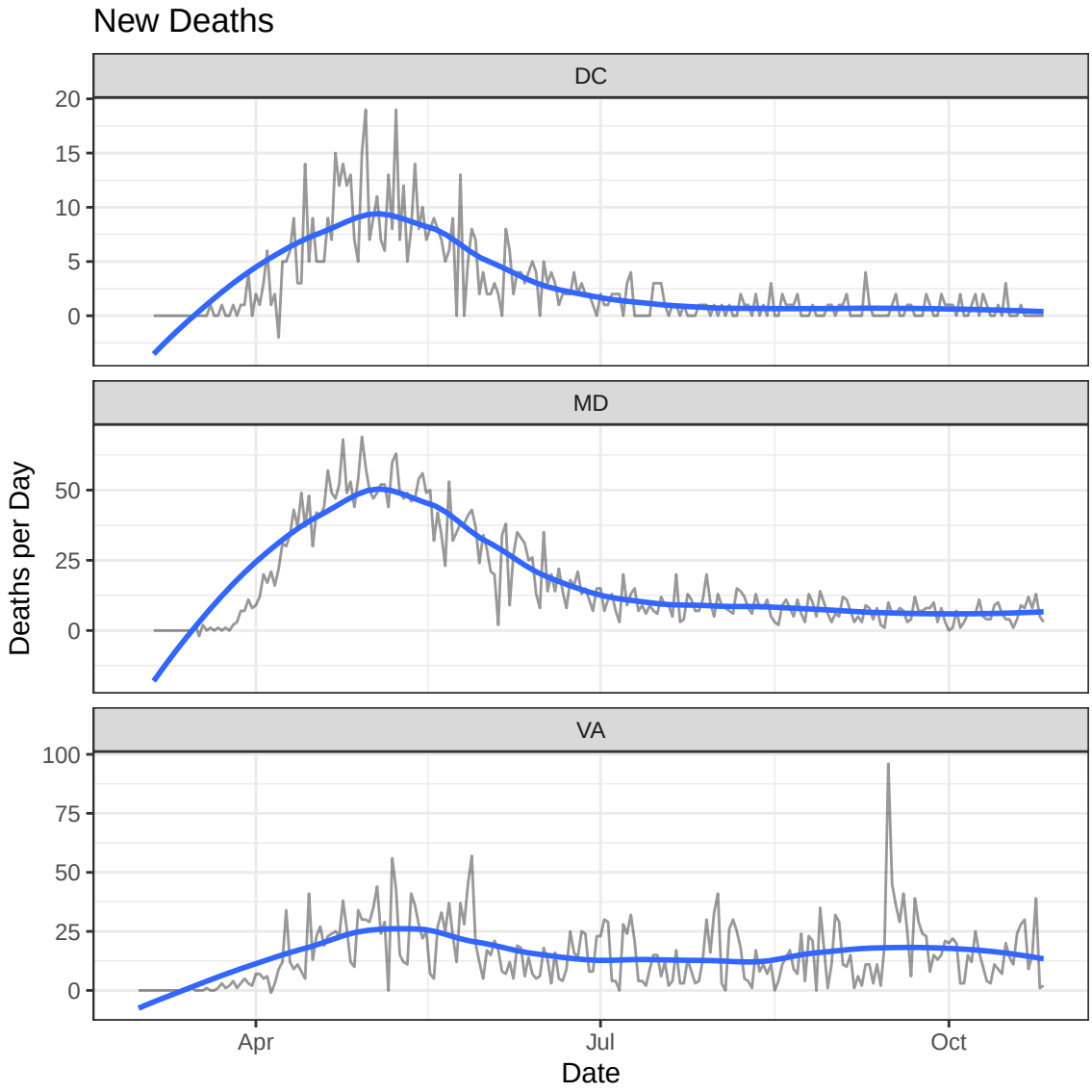
The following charts and tables present mortality, case, and testing data for the Washington DC metropolitan area and adjacent states.

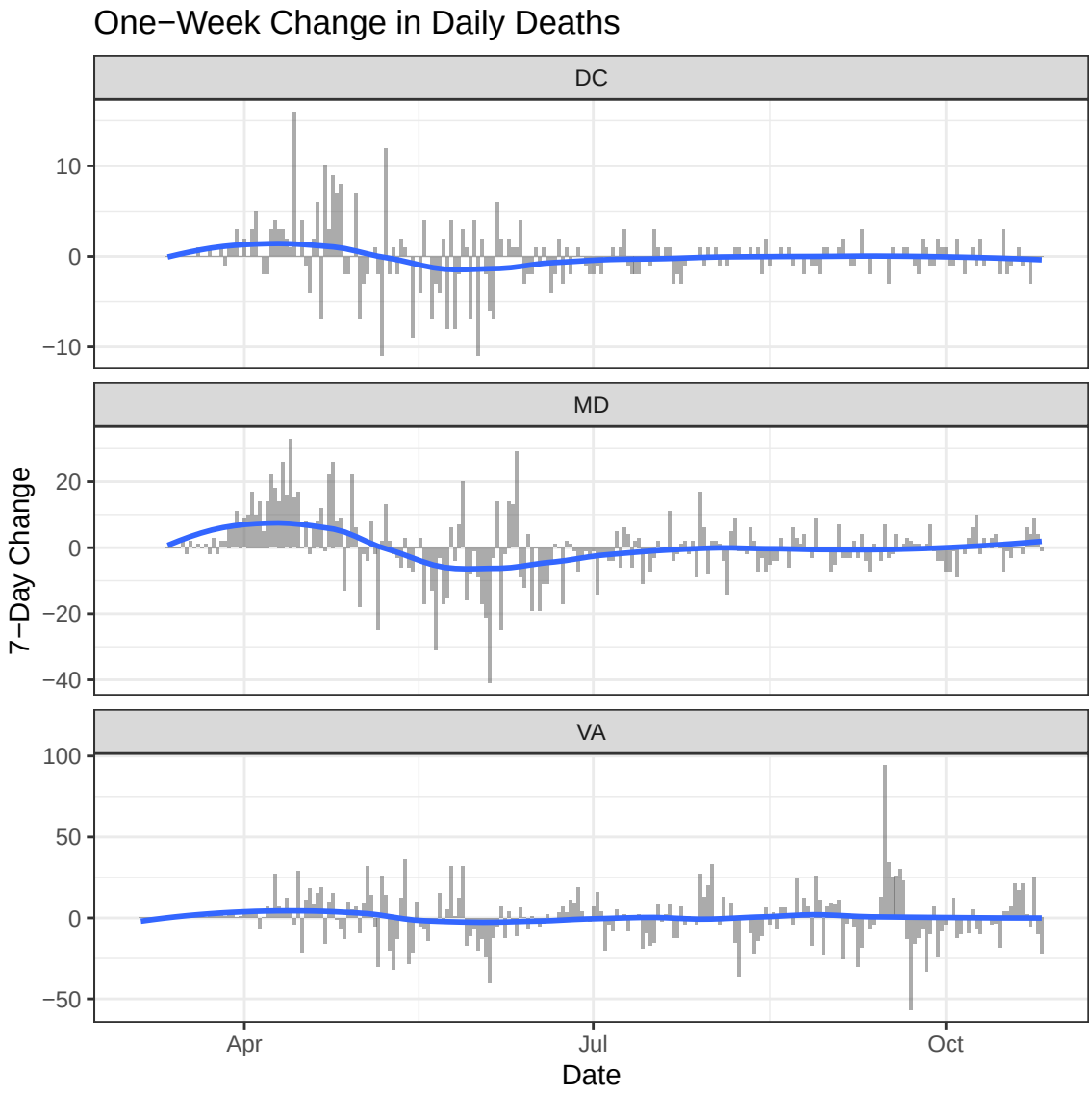
Table 3: Latest Local Data

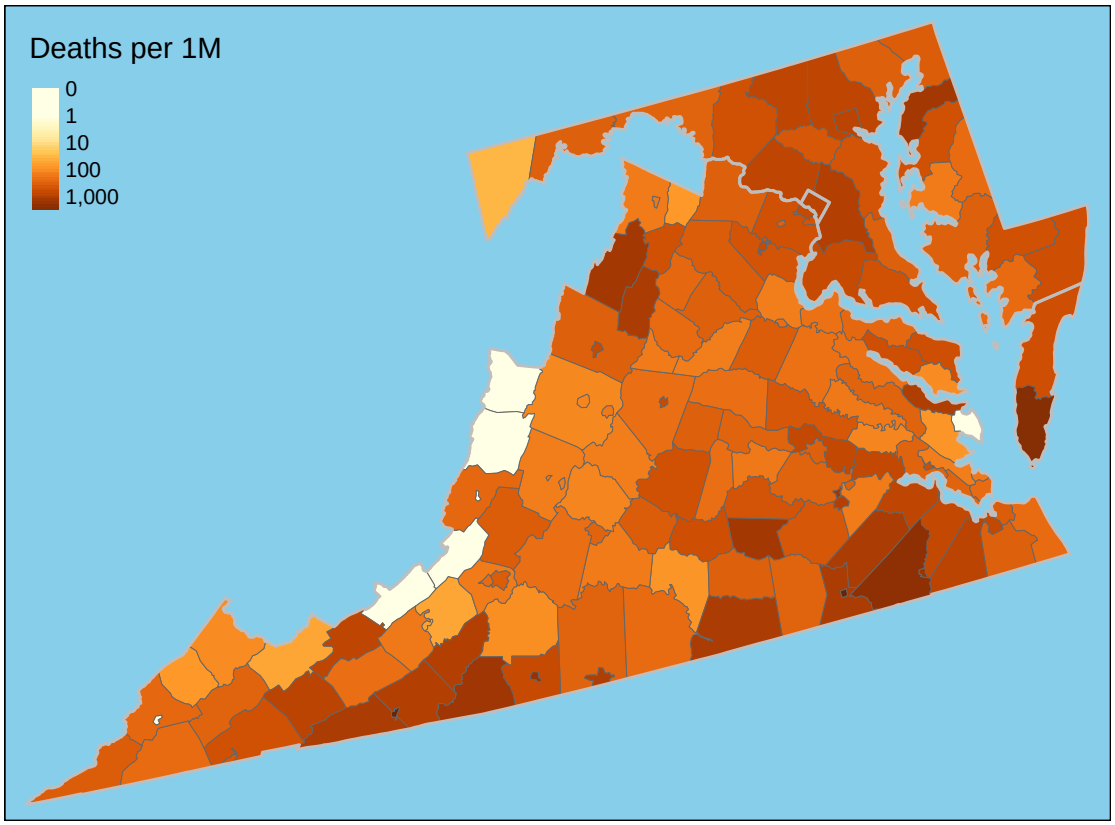
State	Cases	Deaths	New Cases	New Deaths
DC	16,812	642	45	0
MD	140,844	4,099	565	3
VA	174,275	3,581	904	2

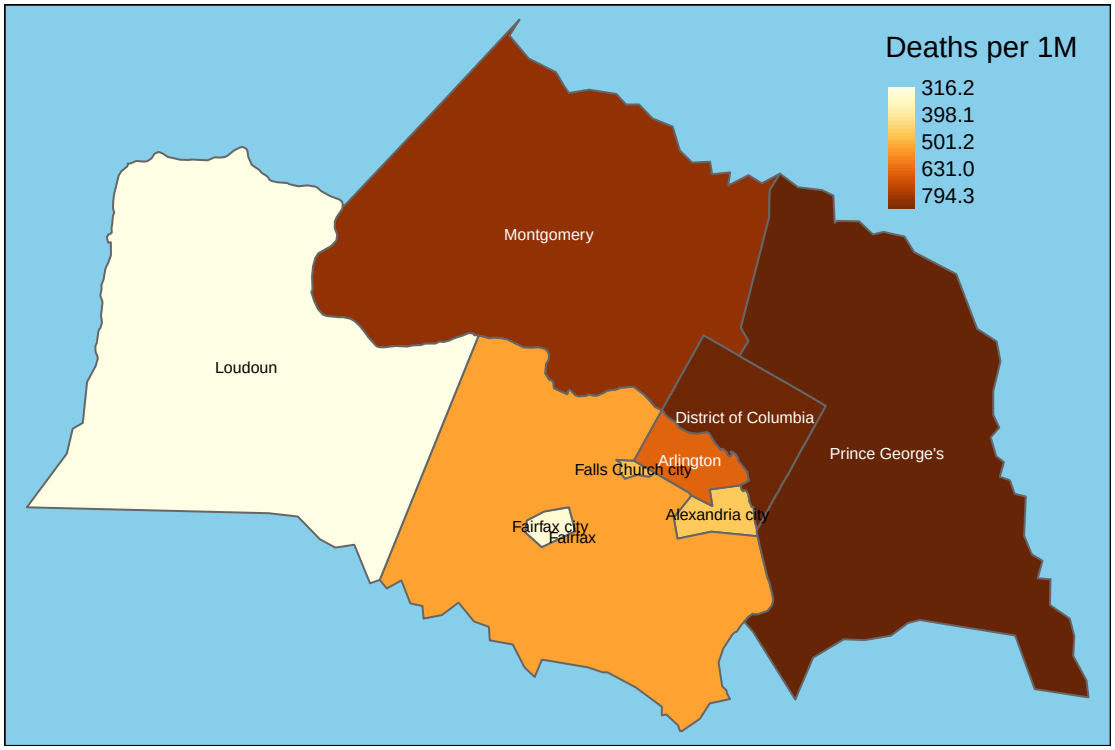
Deaths


Deaths
Total Deaths
1,000
100
10
1
Apr
Jul
Oct
Date
State
DC
MD
VA

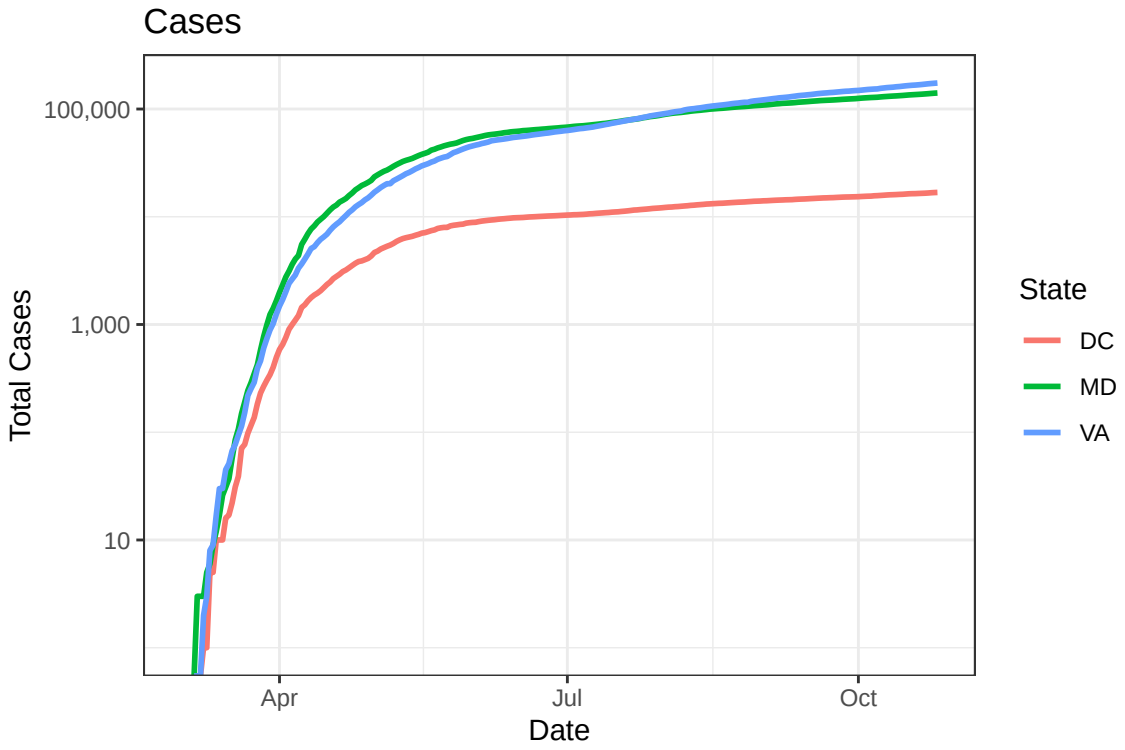

New Deaths
DC
MD
VA
Deaths per Day
20
15
10
5
0
50
25
0
100
75
50
25
0
Apr
Jul
Oct
Date

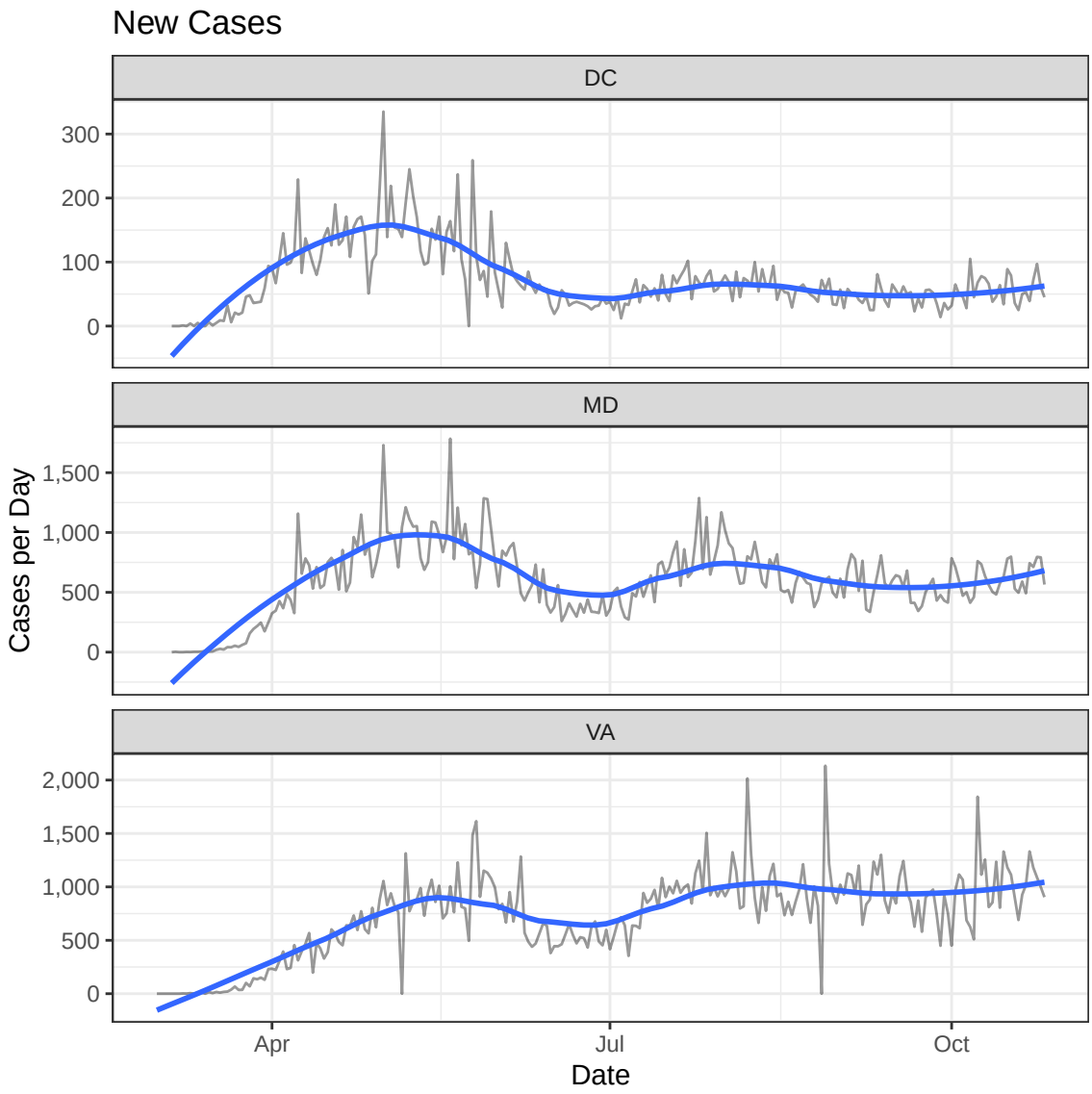

One−Week Change in Daily Deaths
DC
MD
VA
10
0
−10
20
0
−20
−40
100
50
0
−50
7−Day Change
Apr
Jul
Oct
Date

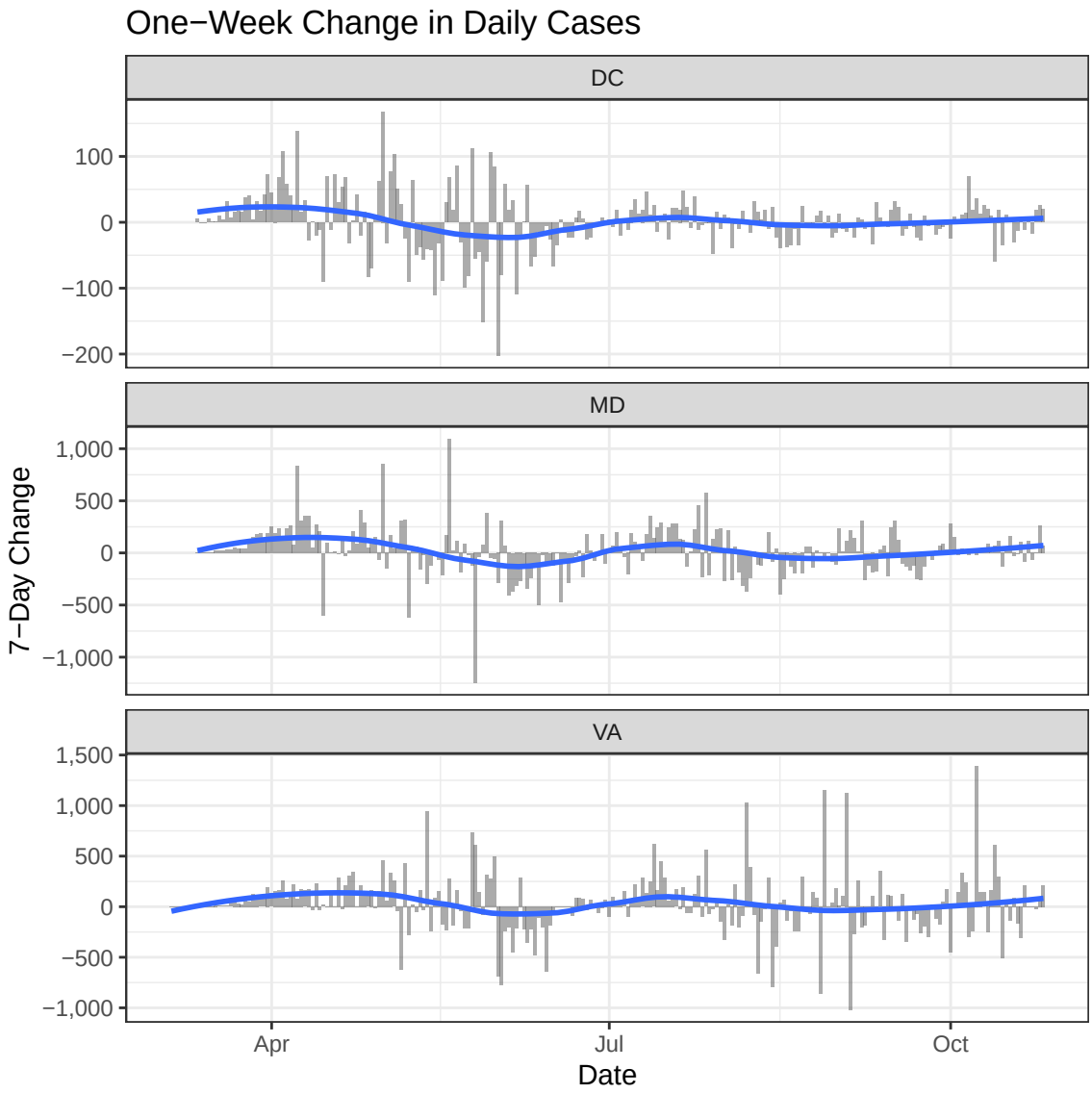

Deaths per 1M
0
1
10
100
1,000

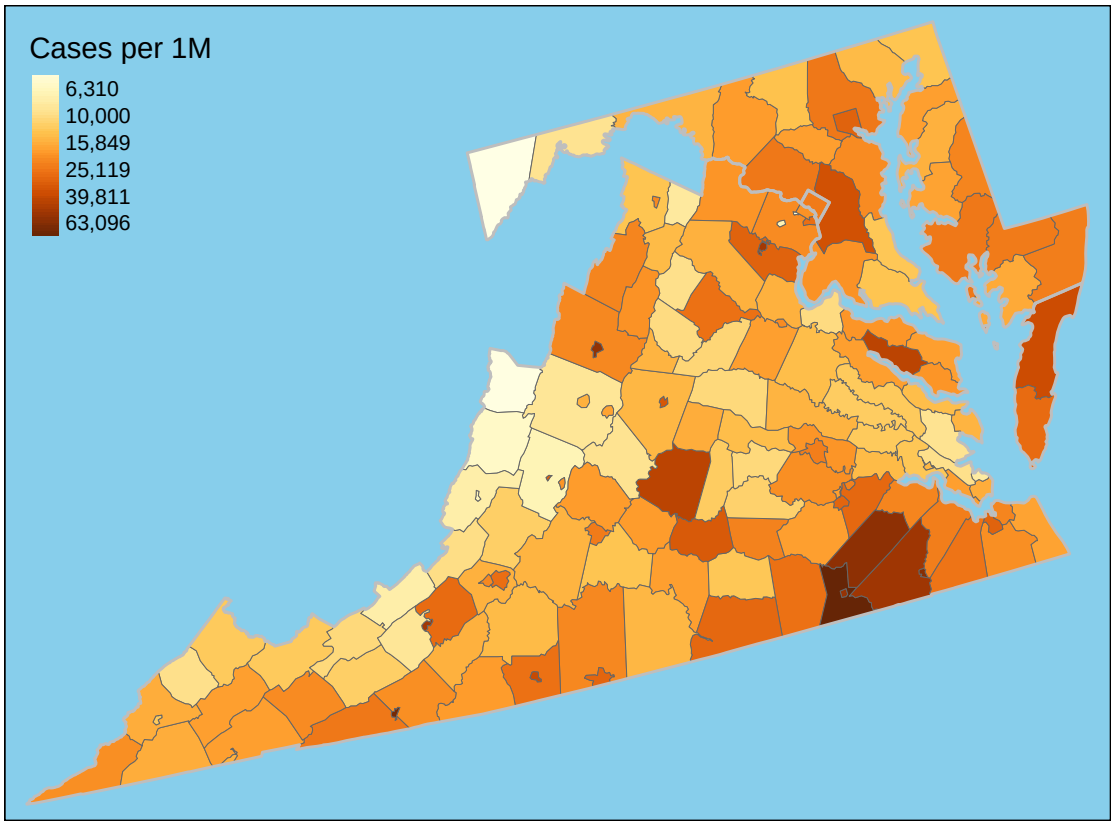

Deaths per 1M
316.2
398.1
501.2
631.0
794.3
Montgomery
Loudoun
District of Columbia
Prince George's
Arlington
Falls Church city
Alexandria city
Fairfax city
Fairfax

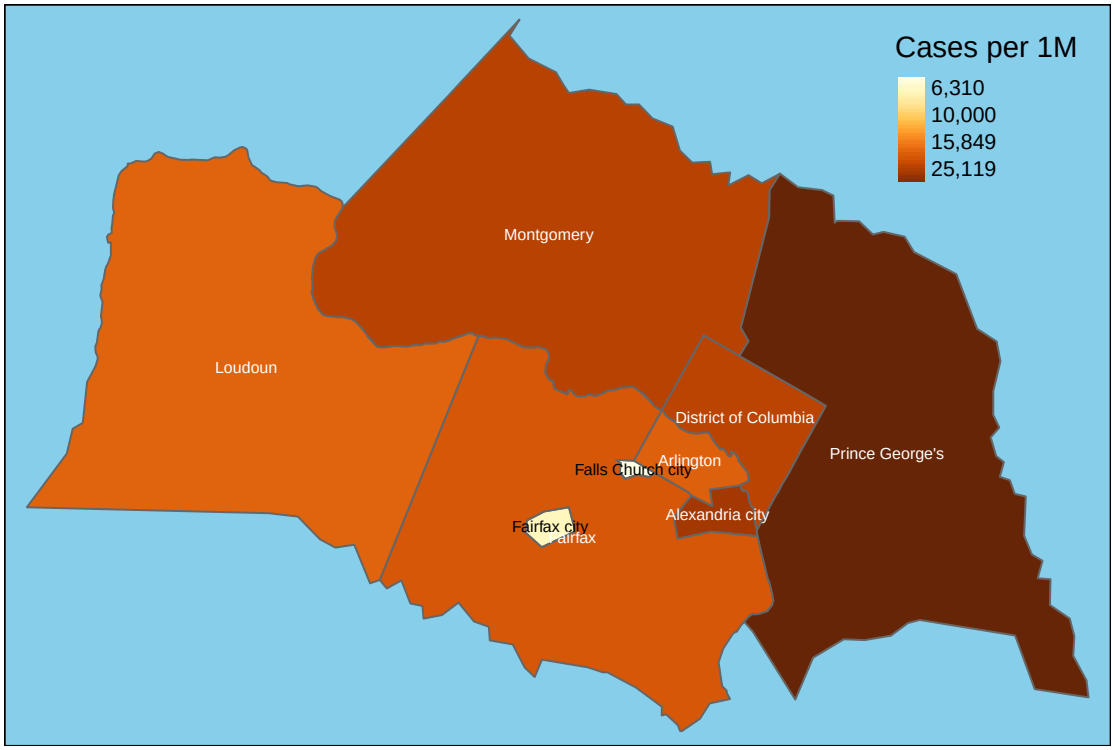
Cases


Cases
100,000
1,000
10
Total Cases
Apr
Jul
Oct
Date
State
DC
MD
VA

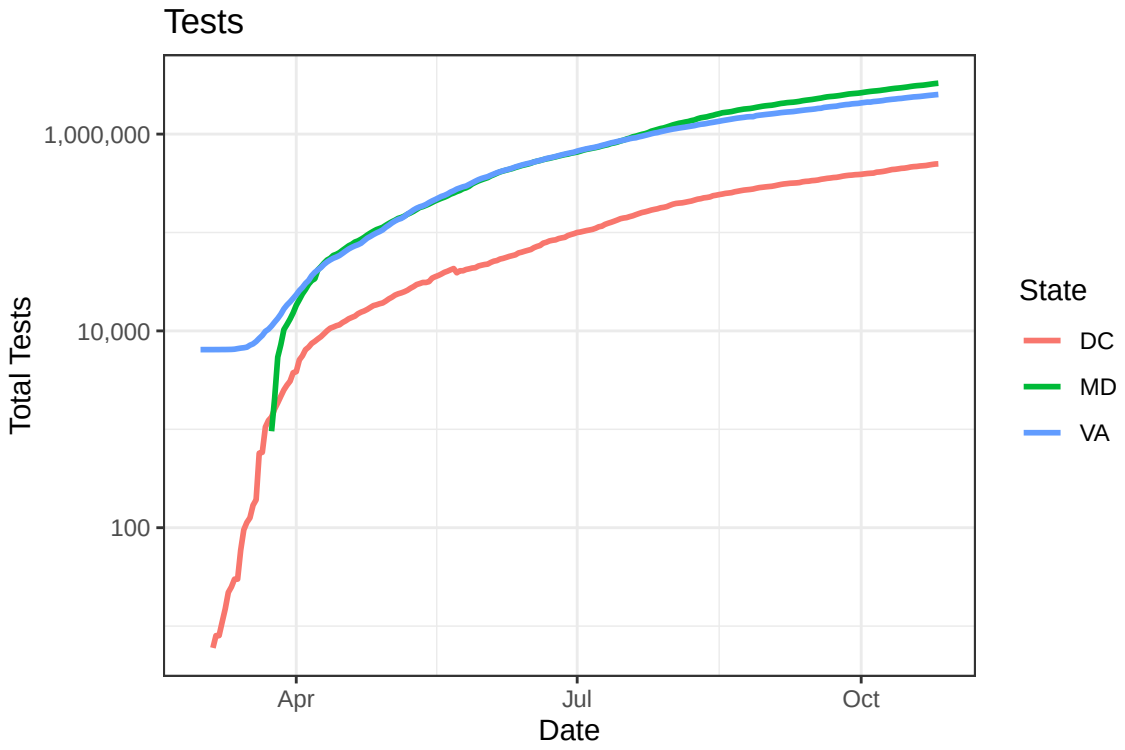

New Cases
DC
MD
VA
Cases per Day
300
200
100
0
1,500
1,000
500
0
2,000
1,500
1,000
500
0
Apr
Jul
Oct
Date

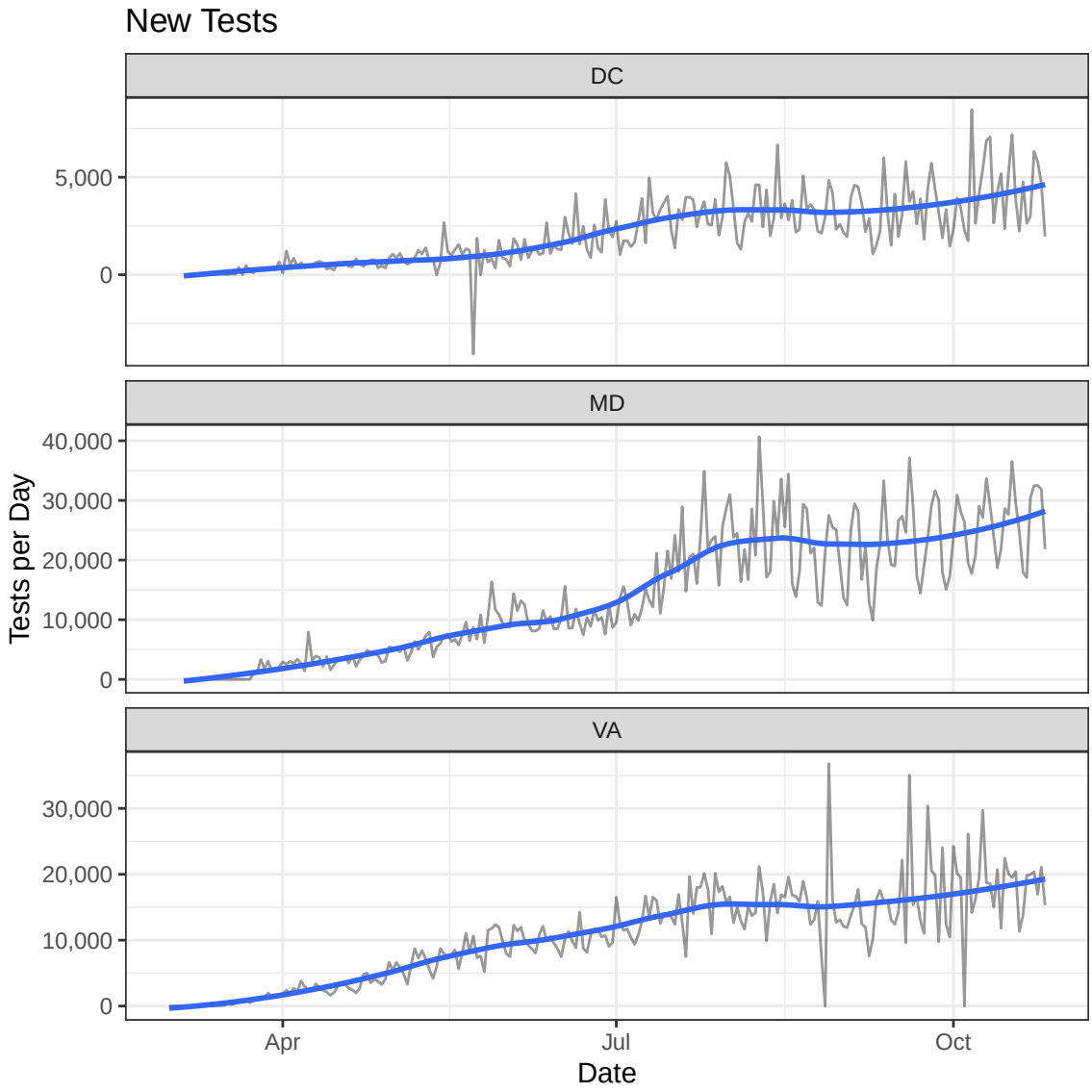

One−Week Change in Daily Cases
DC
MD
VA
7−Day Change
100
0
−100
−200
1,000
500
0
−500
−1,000
1,500
1,000
500
0
−500
−1,000
Apr
Jul
Oct
Date

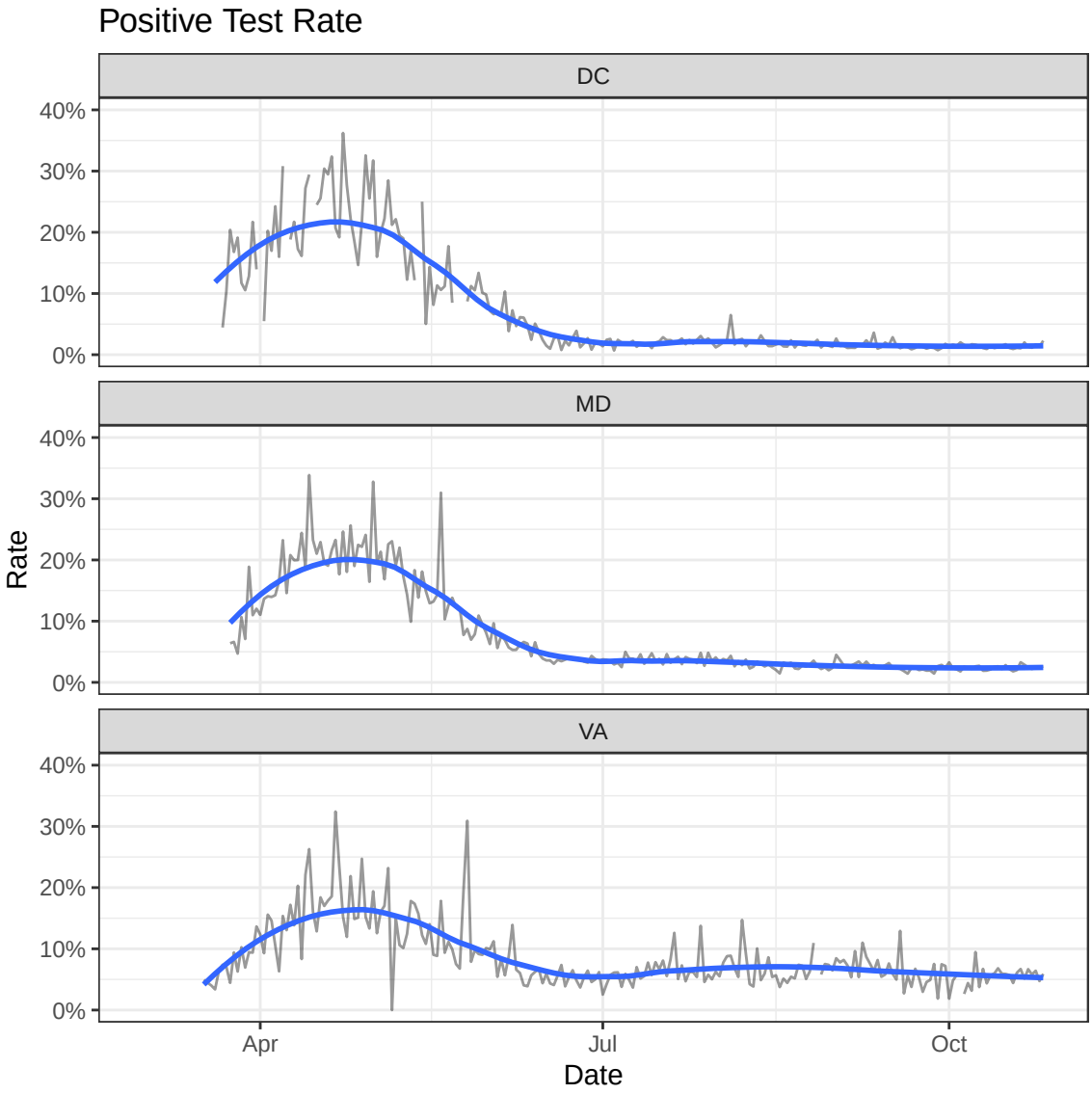

Cases per 1M
6,310
10,000
15,849
25,119
39,811
63,096


Cases per 1M
6,310
10,000
15,849
25,119
Montgomery
Loudoun
District of Columbia
Prince George's
Arlington
Falls Church city
Alexandria city
Fairfax city
Fairfax

Testing


Tests
1,000,000
10,000
100
Total Tests
Apr
Jul
Oct
Date
State
DC
MD
VA


New Tests
DC
MD
VA
5,000
0
40,000
30,000
20,000
10,000
0
30,000
20,000
10,000
0
Tests per Day
Apr
Jul
Oct
Date


Positive Test Rate
DC
MD
VA
40%
30%
20%
10%
0%
Rate
Apr
Jul
Oct
Date