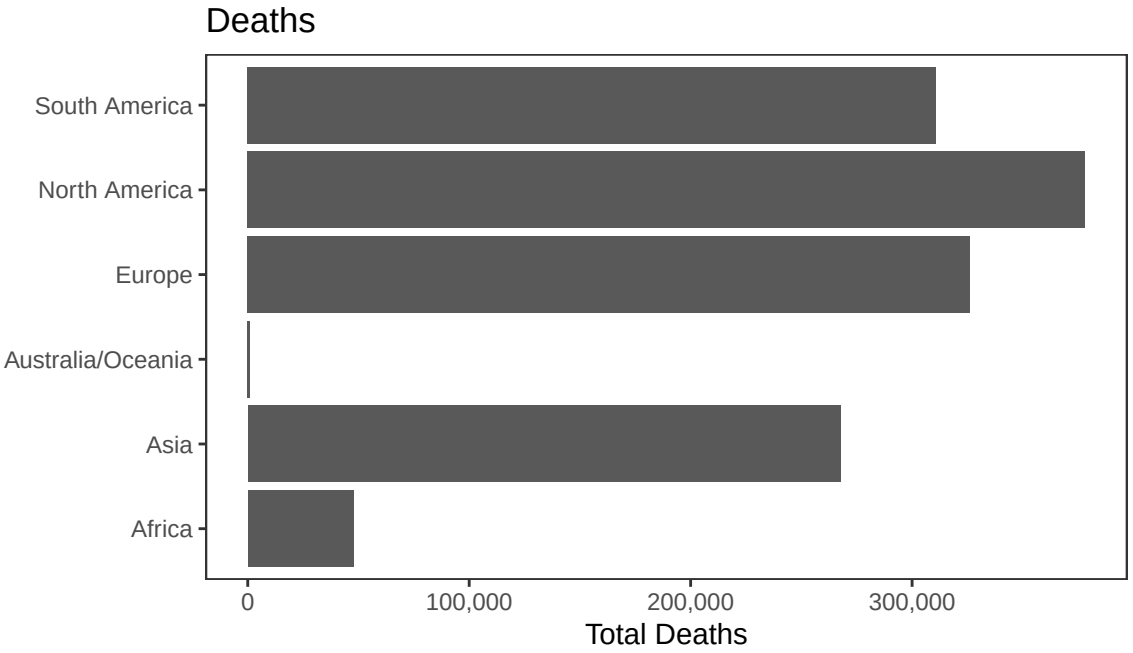
Erik's Covid-19 Chart Pack

Data updated 2020-11-17 08:00:36. 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 55,341,623 confirmed Covid-19 cases and 1,331,752 deaths worldwide.



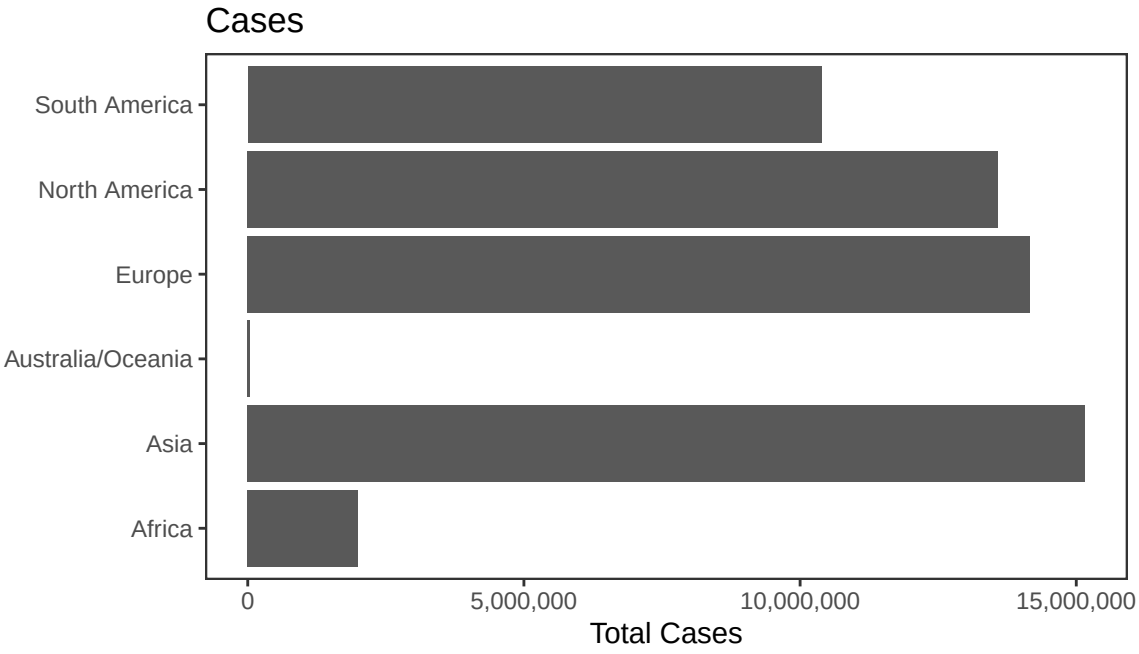
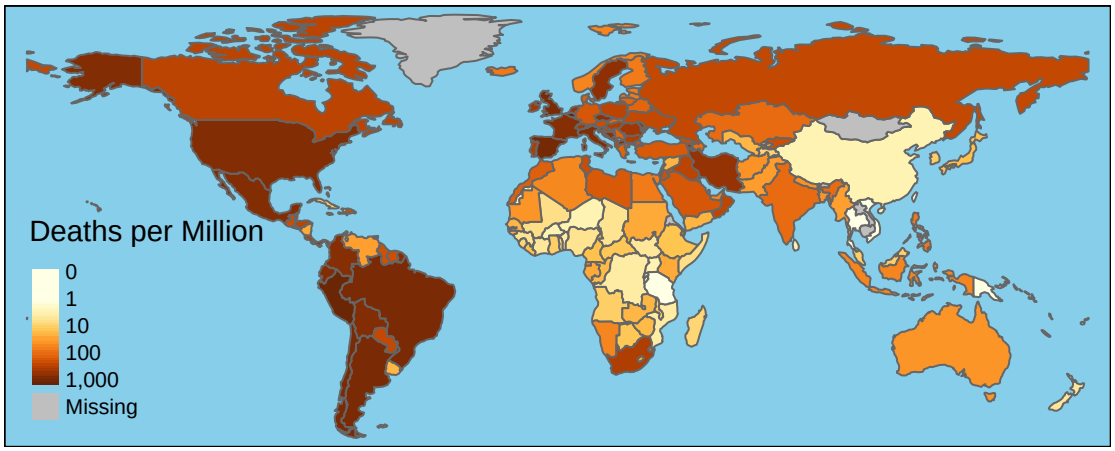
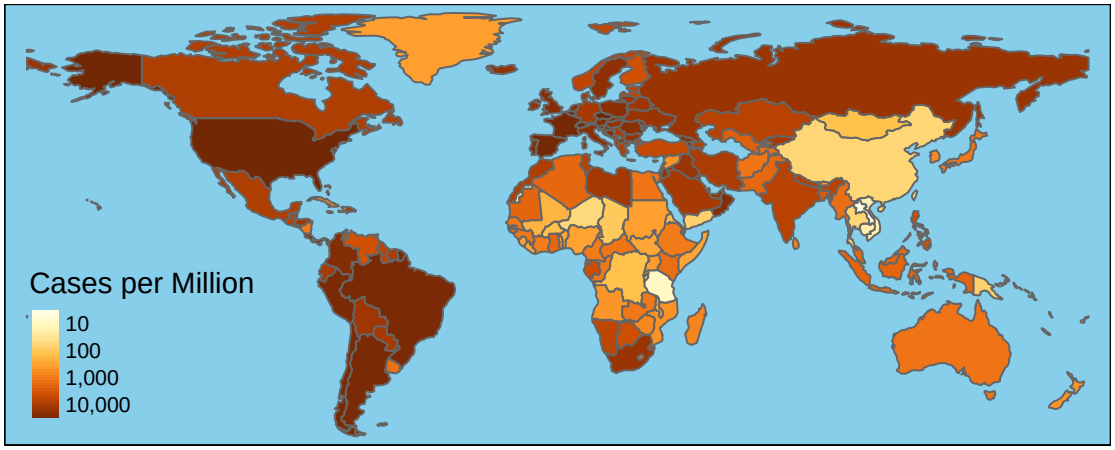
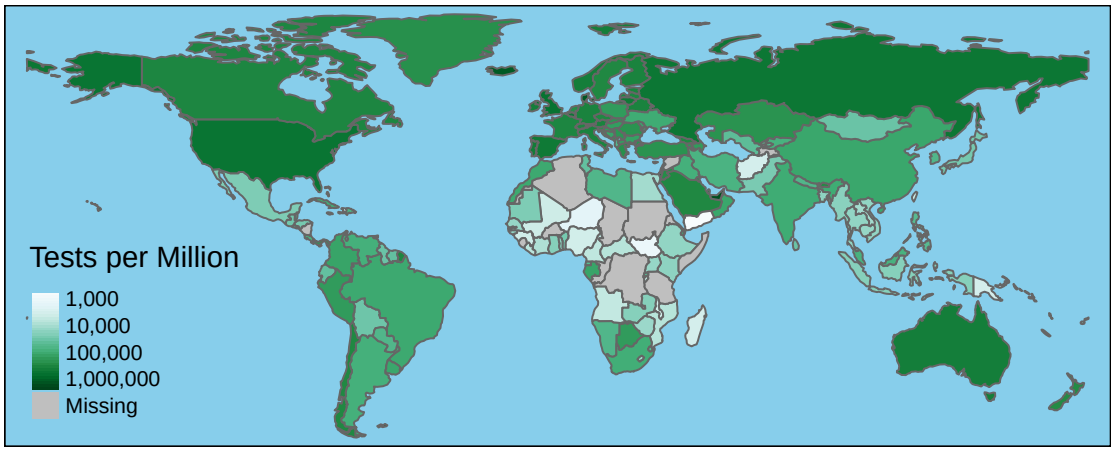


Table 1: Top Countries by Total Cases

Country	Cases	Deaths	New Cases	New Deaths
USA	11,538,280	252,652	162,346	740
India	8,874,172	130,559	28,555	450
Brazil	5,876,740	166,067	13,647	256
France	1,991,233	45,054	9,406	506
Russia	1,948,603	33,489	22,778	303
Spain	1,521,899	41,253	12,758	162
UK	1,390,681	52,147	21,363	213
Argentina	1,318,384	35,727	7,893	291
Italy	1,205,881	45,733	27,354	504
Colombia	1,205,217	34,223	6,471	192
Mexico	1,006,522	98,542	3,269	283
Peru	938,268	35,271	1,257	40
Germany	817,526	12,891	14,582	199
Iran	775,121	41,979	13,053	486
South Africa	752,269	20,314	1,245	73
Poland	733,788	10,491	20,816	143
Ukraine	545,689	9,697	9,832	94
Belgium	535,939	14,421	4,659	118
Chile	532,604	14,863	1,331	44
Iraq	521,542	11,712	2,390	42


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

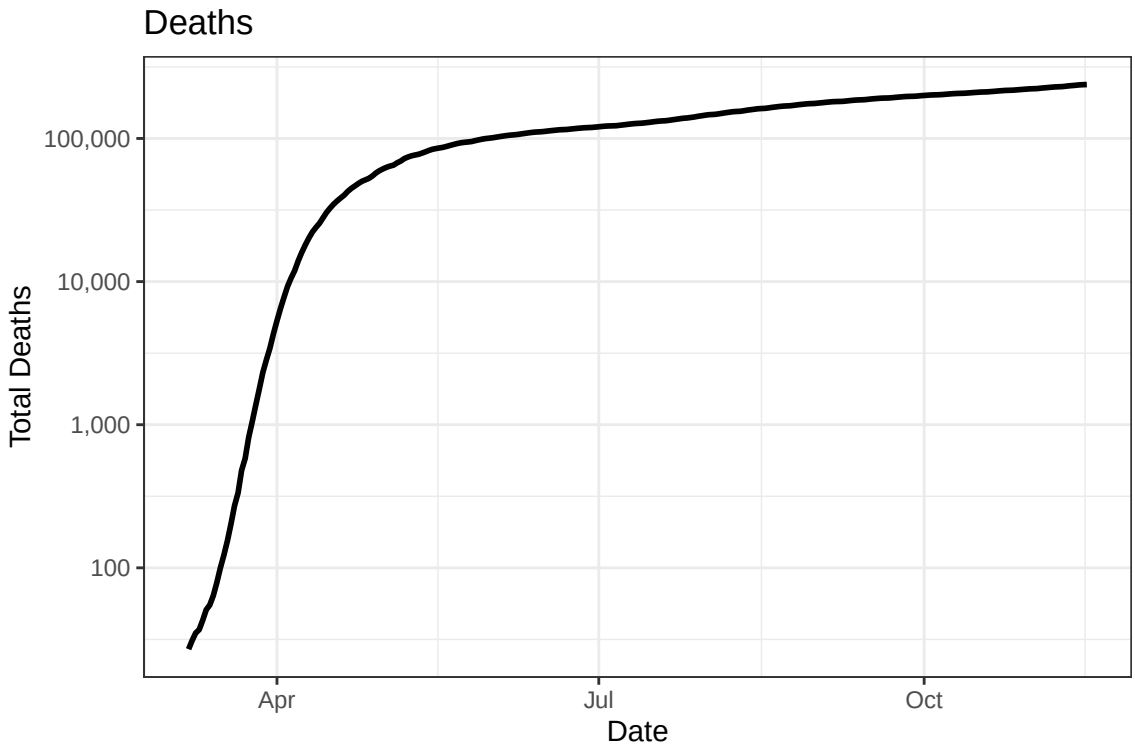
There have been 11,047,064 confirmed Covid-19 cases and 238,217 deaths in the United States.

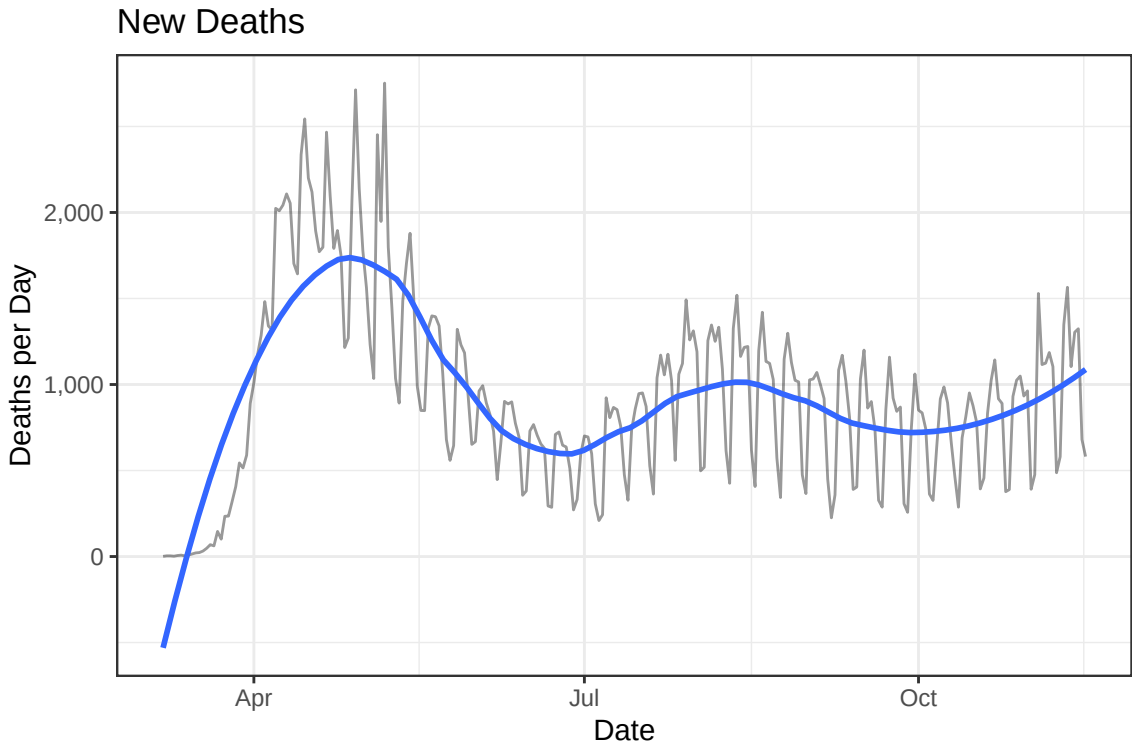
Table 2: U.S. Deaths and Cases over the Last Two Weeks

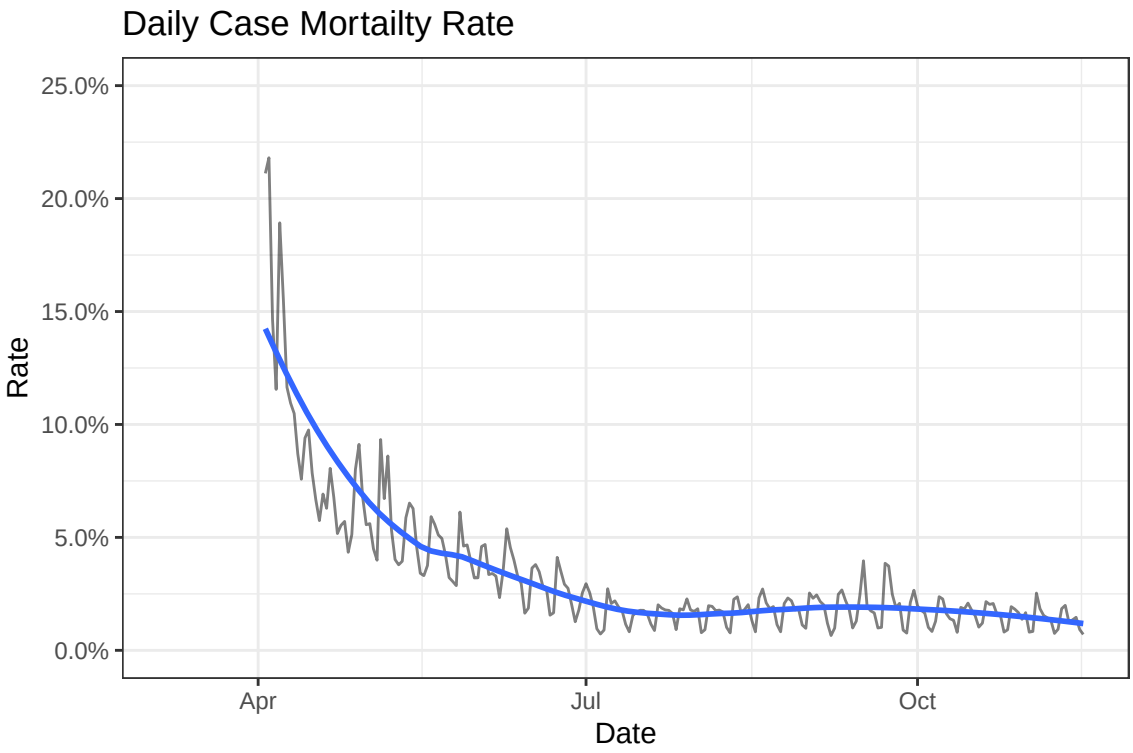
Date	Cases	Deaths	New Cases	New Deaths
2020-11-16	11,047,064	238,217	148,532	581
2020-11-15	10,898,532	237,636	145,582	680
2020-11-14	10,752,950	236,956	164,848	1,324
2020-11-13	10,588,102	235,632	171,376	1,304
2020-11-12	10,416,726	234,328	150,526	1,104
2020-11-11	10,266,200	233,224	144,487	1,565
2020-11-10	10,121,713	231,659	130,995	1,347
2020-11-09	9,990,718	230,312	118,698	580
2020-11-08	9,872,020	229,732	110,829	487
2020-11-07	9,761,191	229,245	129,187	1,104
2020-11-06	9,632,004	228,141	125,234	1,186
2020-11-05	9,506,770	226,955	116,152	1,124
2020-11-04	9,390,618	225,831	103,063	1,116
2020-11-03	9,287,555	224,715	86,073	1,529

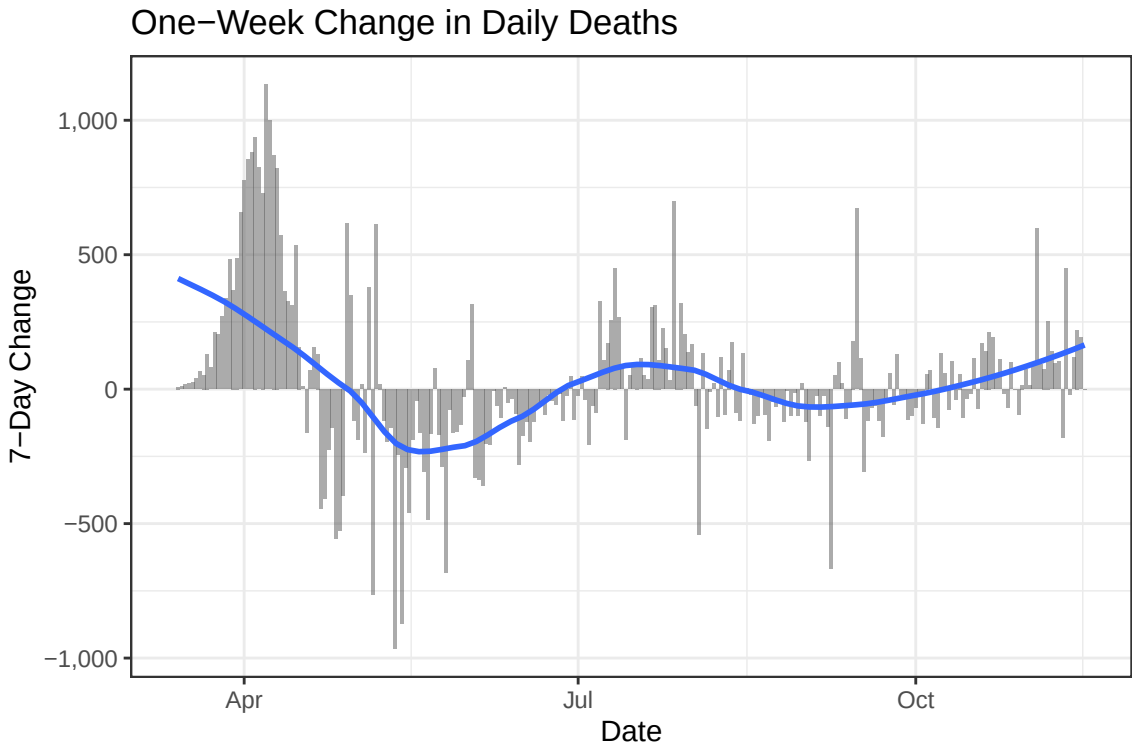
Deaths

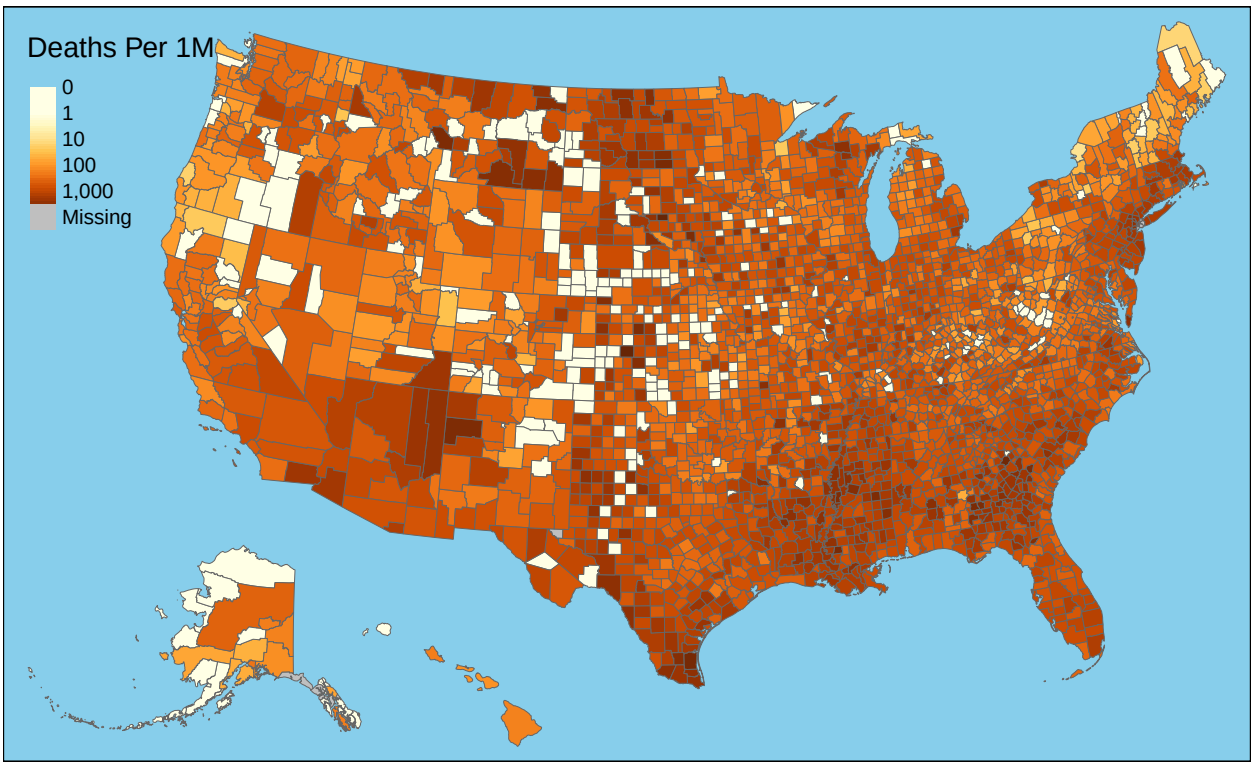
Because the effects of the virus can take several weeks to manifest in patients, deaths are a lagging indicator of contagion, but they may be a more reliable than case counts, which are a function of both the prevalence of the disease and the rate of testing. The case mortality rate is a very crude indicator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





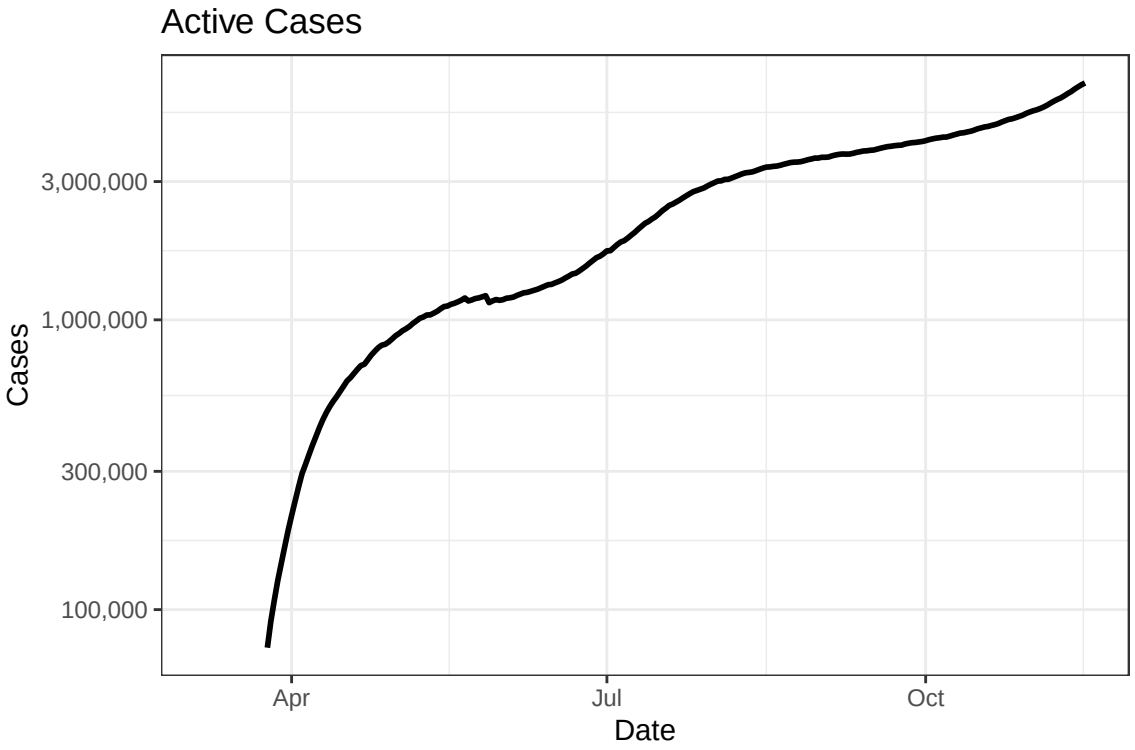

Daily Case Mortailty Rate
25.0%
20.0%
15.0%
10.0%
5.0%
0.0%
Rate
Apr
Jul
Oct
Date

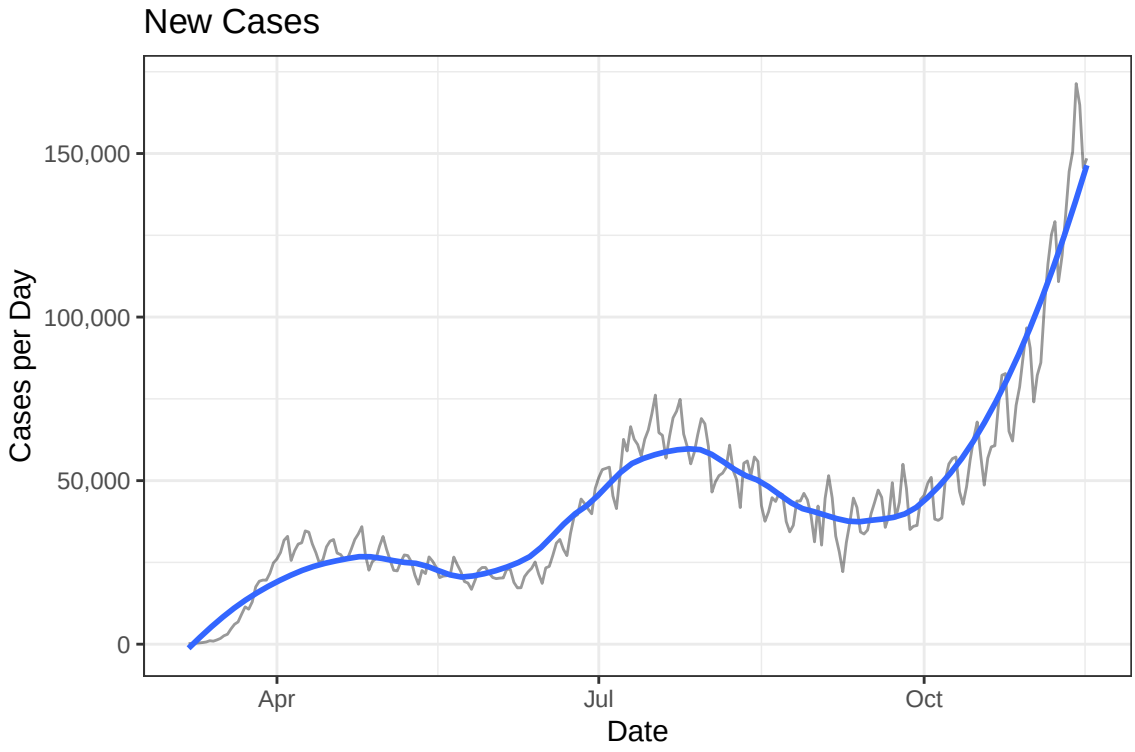

One−Week Change in Daily Deaths
1,000
500
0
−500
−1,000
7−Day Change
Apr
Jul
Oct
Date

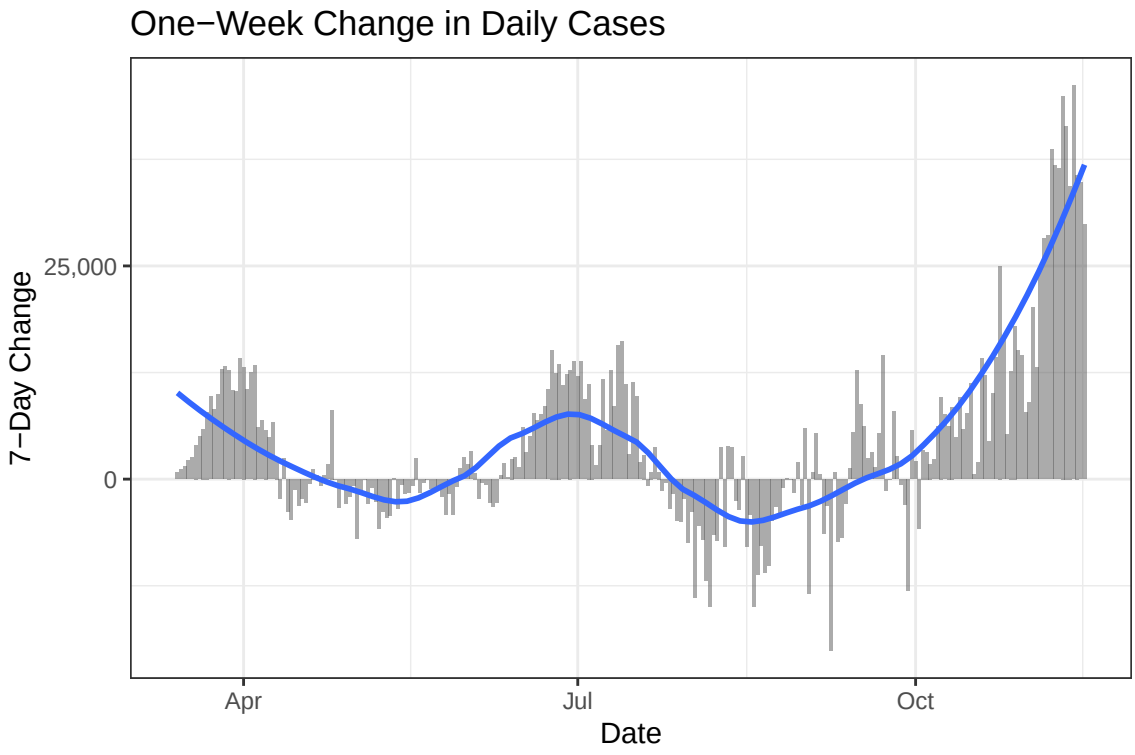

Deaths Per 1M
0
1
10
100
1,000
Missing

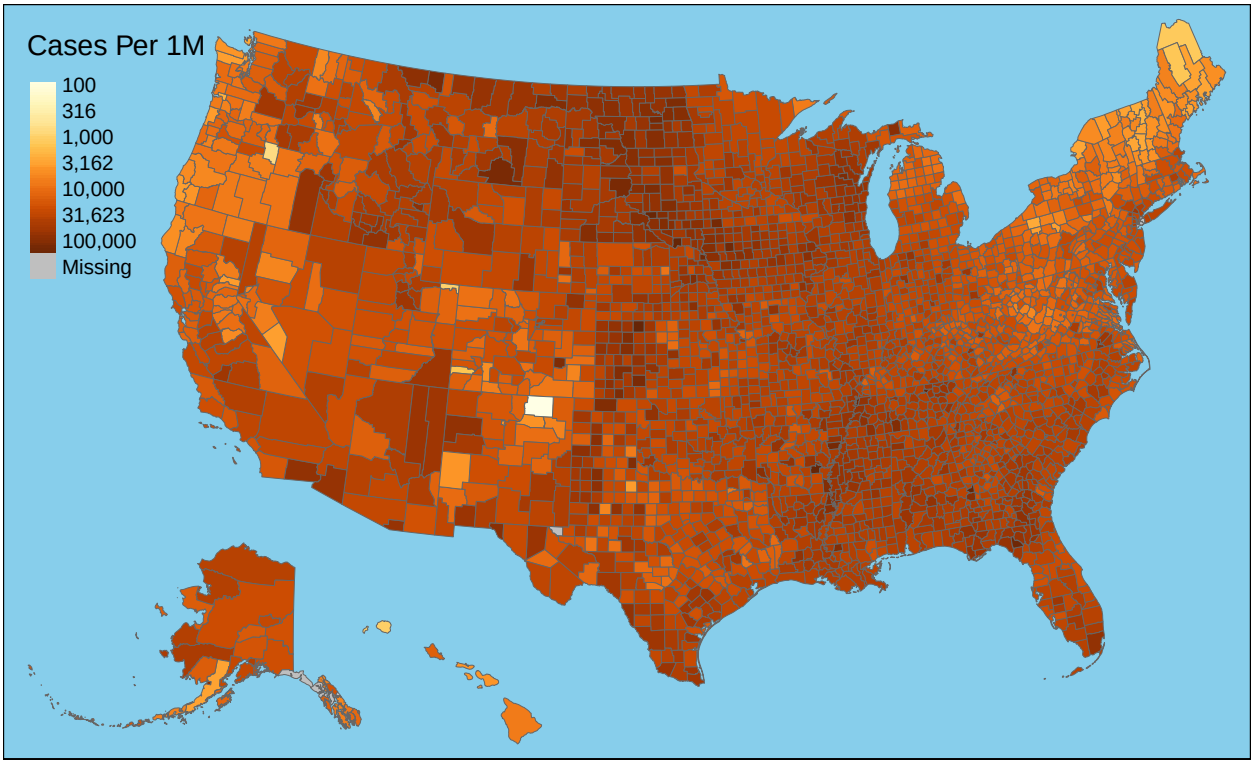
Cases

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



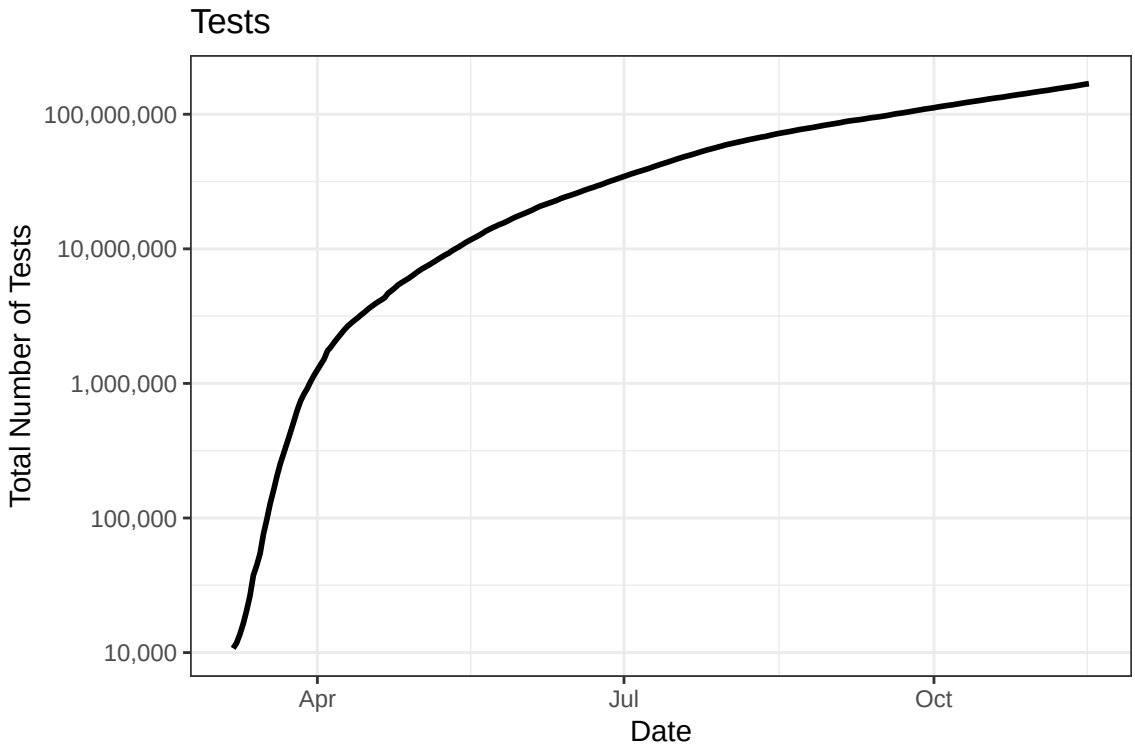


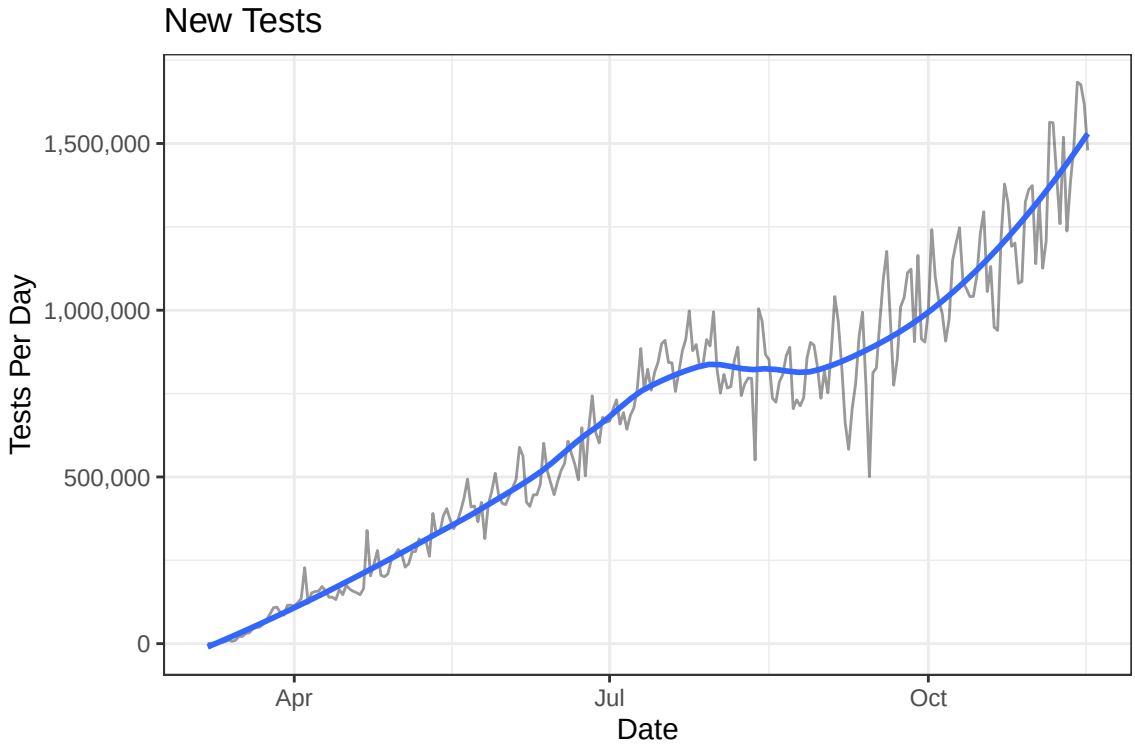

One−Week Change in Daily Cases
7−Day Change
25,000
0
Apr
Jul
Oct
Date

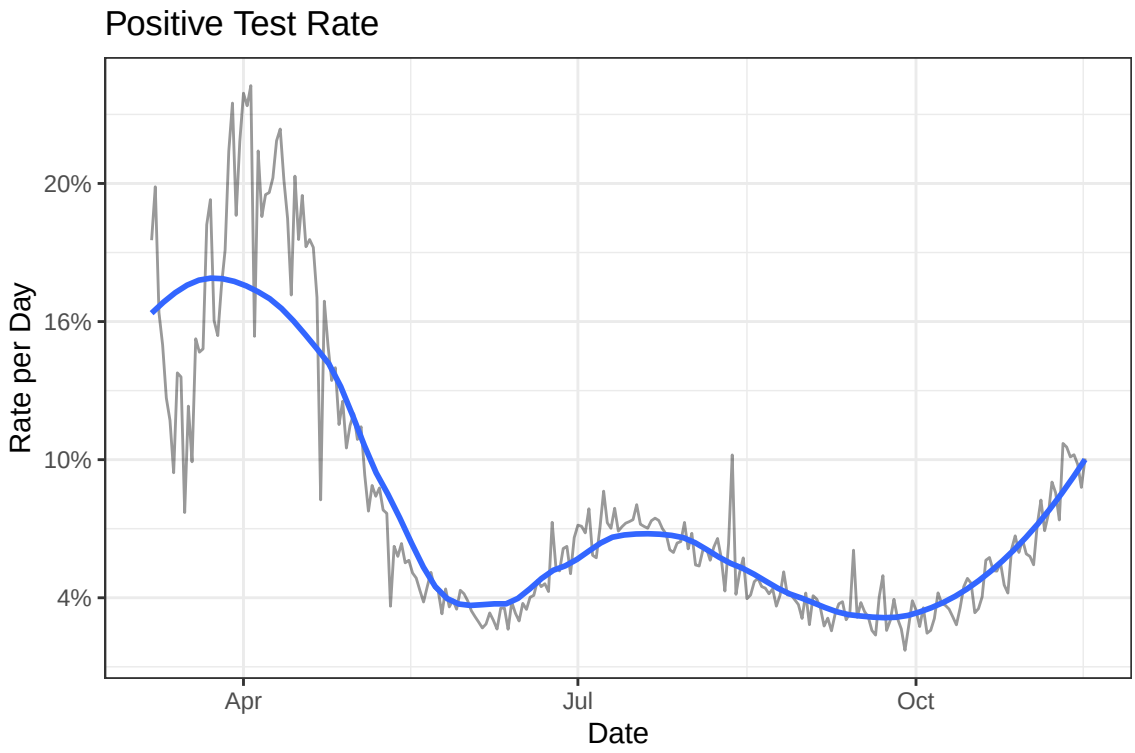

Cases Per 1M
100
316
1,000
3,162
10,000
31,623
100,000
Missing

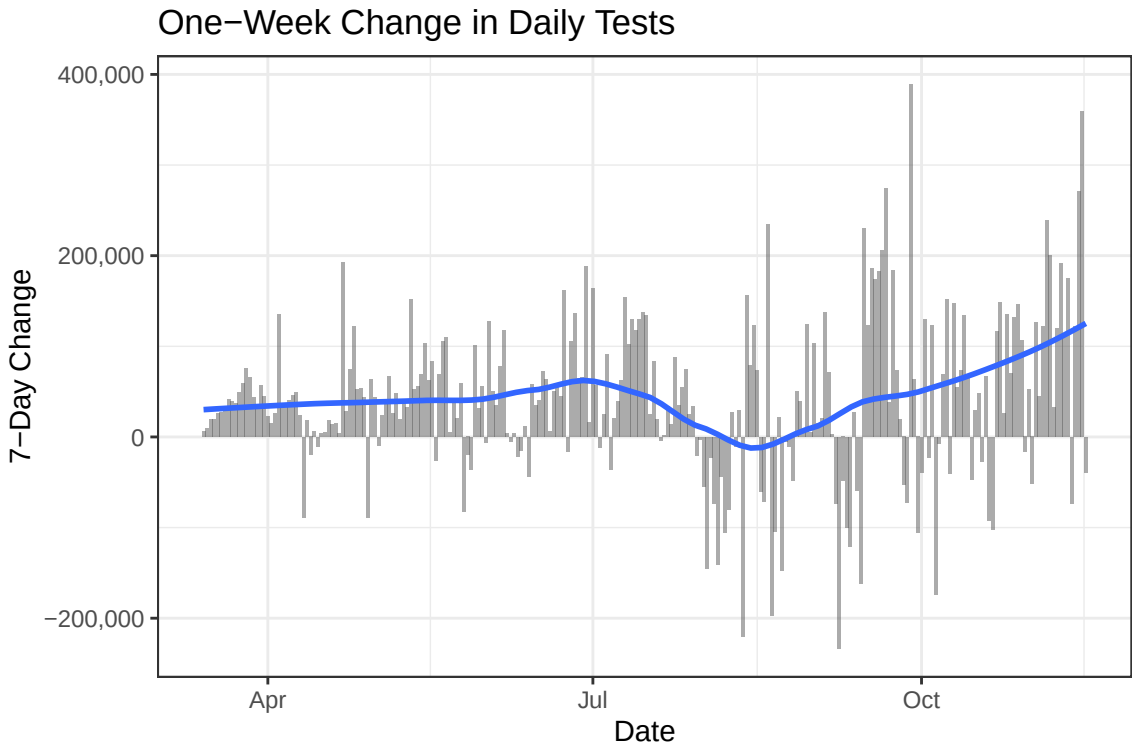
Testing

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.





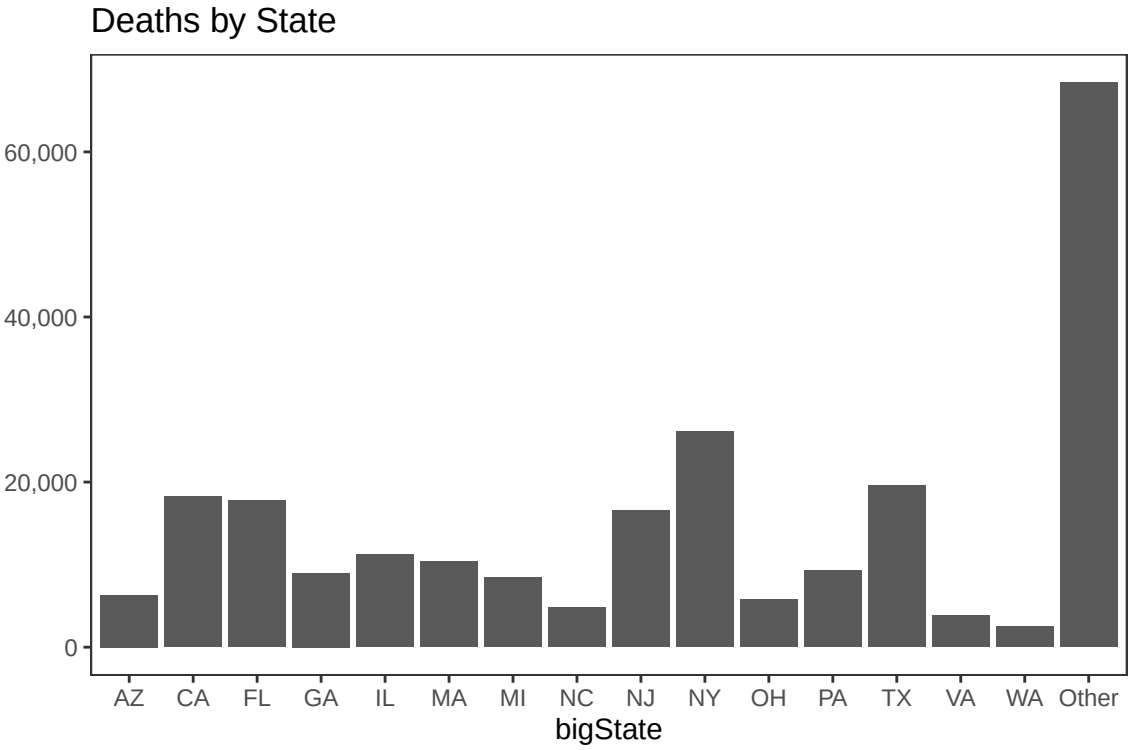

Positive Test Rate
20%
16%
10%
4%
Rate per Day
Apr
Jul
Oct
Date

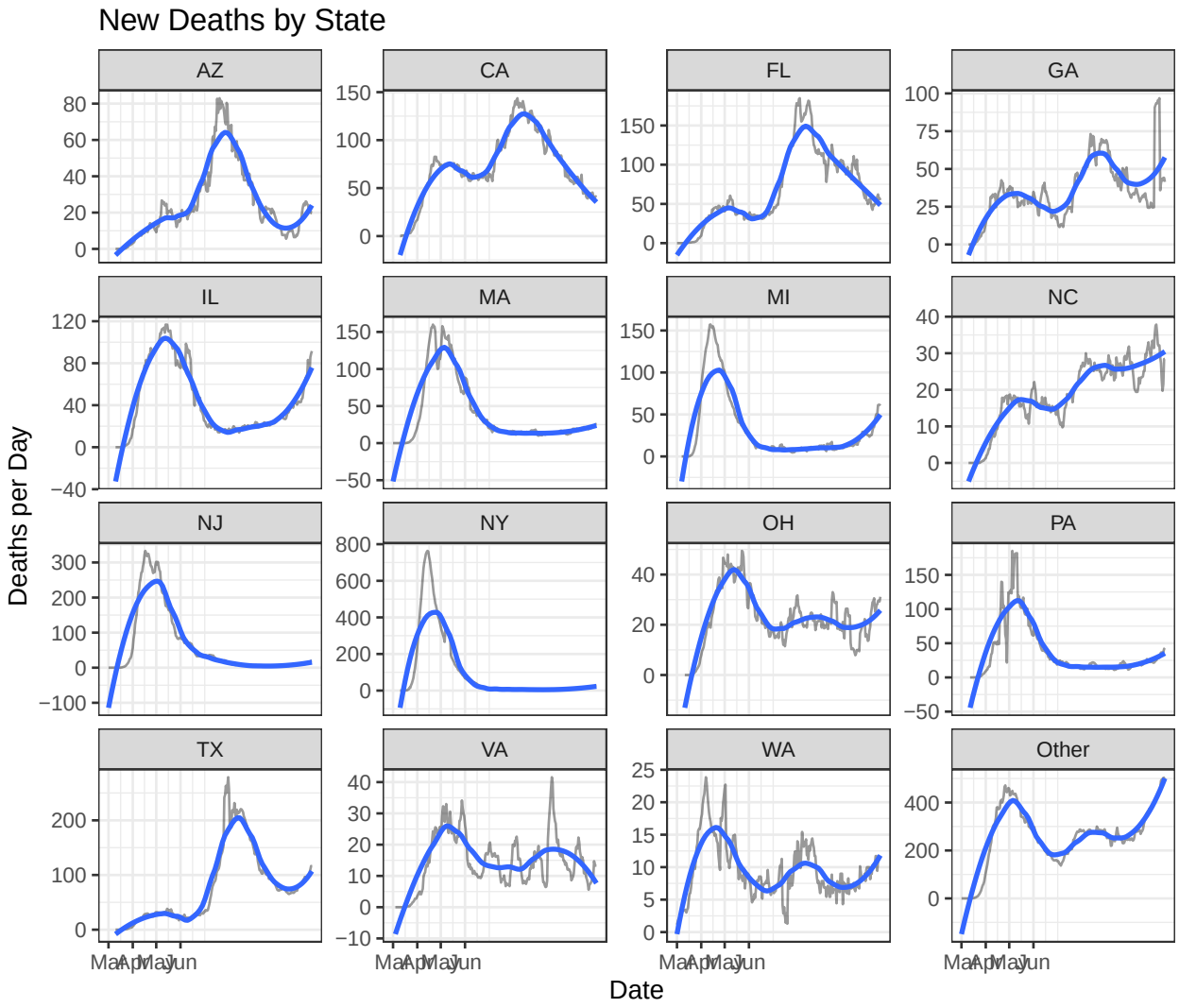

One−Week Change in Daily Tests
400,000
200,000
0
−200,000
7−Day Change
Apr
Jul
Oct
Date

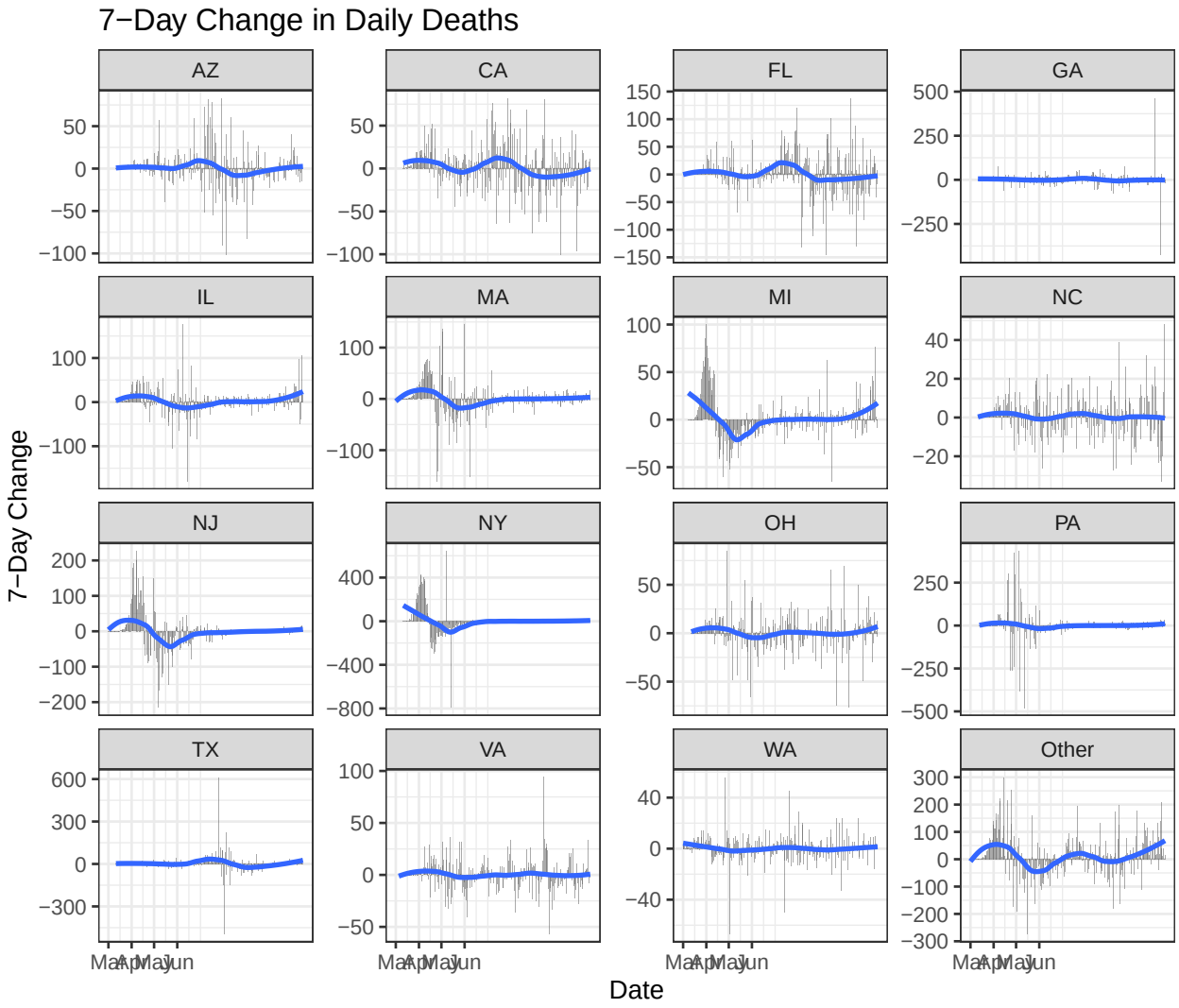
State Data

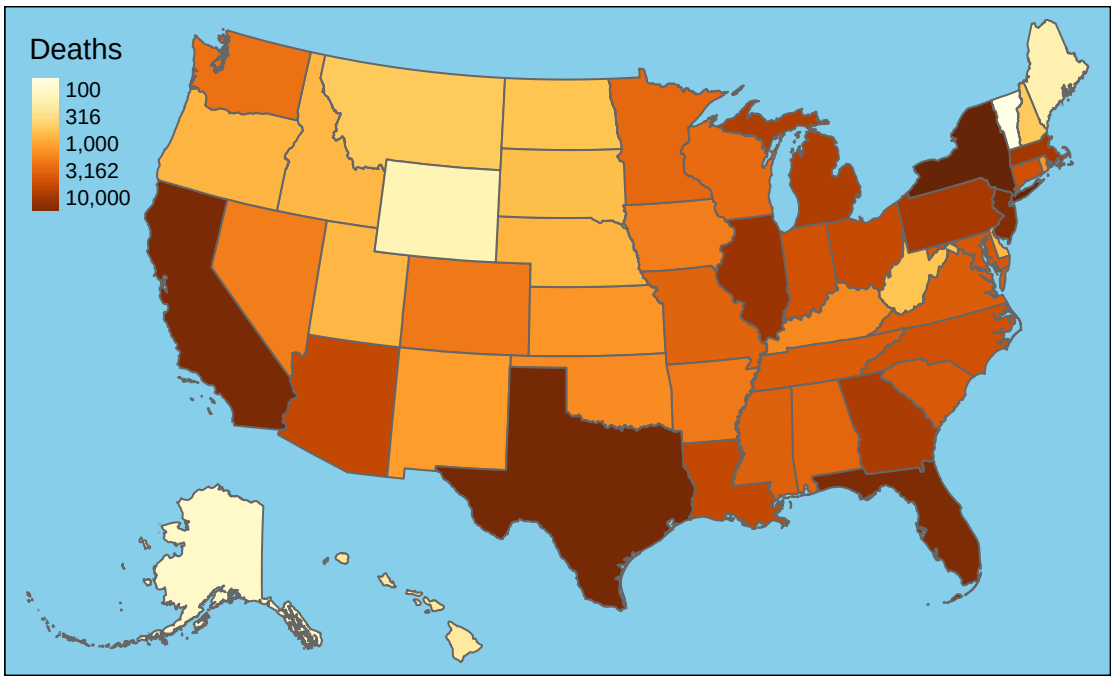
This section summarizes state-level data. Most data are reported for the largest 15 states by population, which account for NaN percent of the total U.S. population.

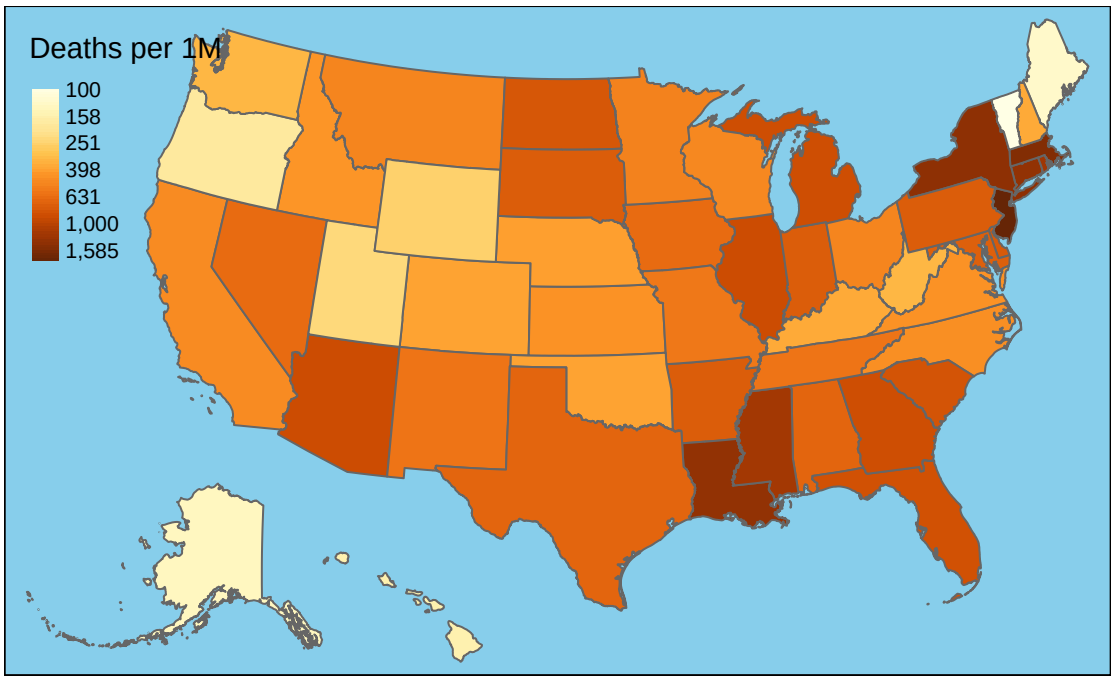
Deaths



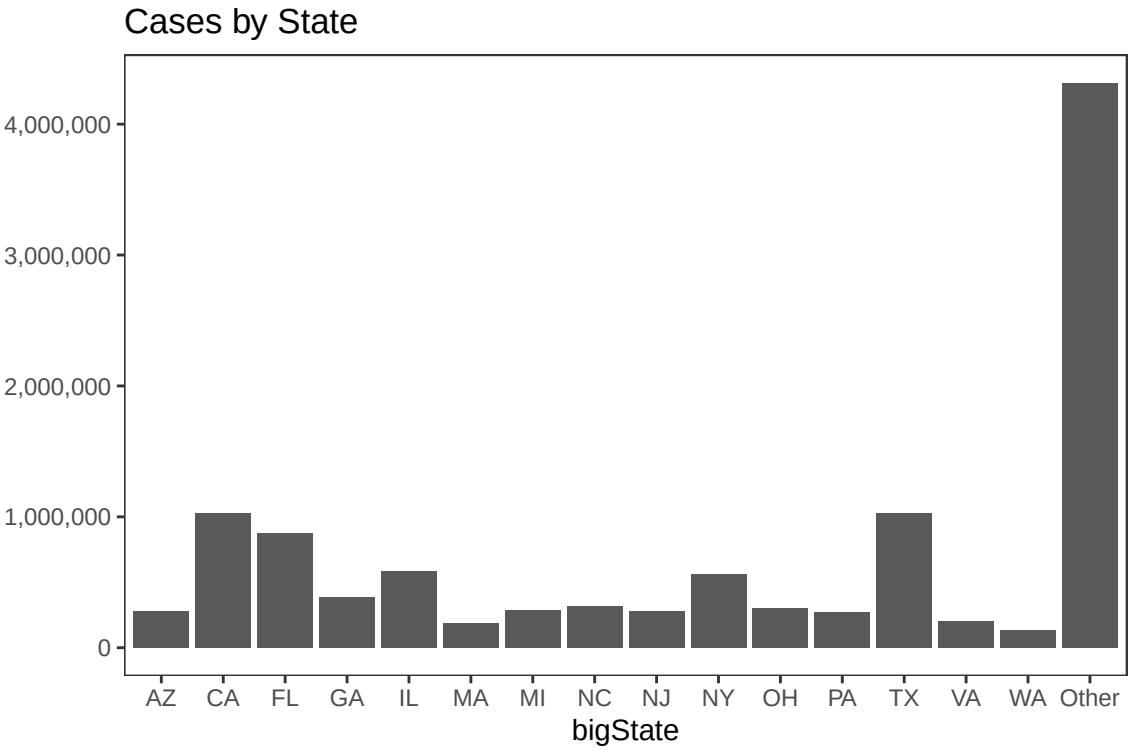

New Deaths by State
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
Deaths per Day
Date
Mar
Apr
May
Jun

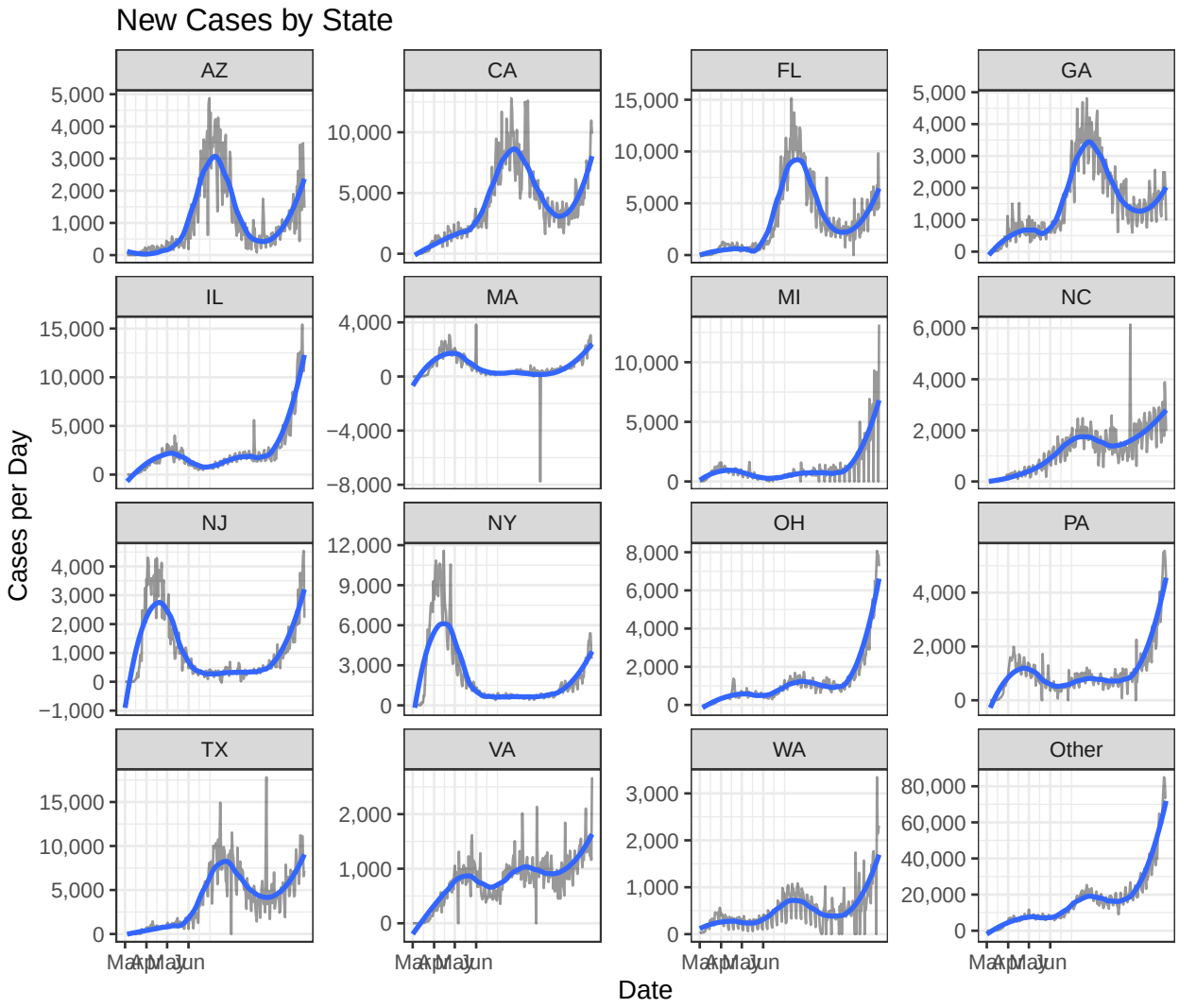

7−Day Change in Daily Deaths
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
7−Day Change
Date
Mar
Apr
May
Jun

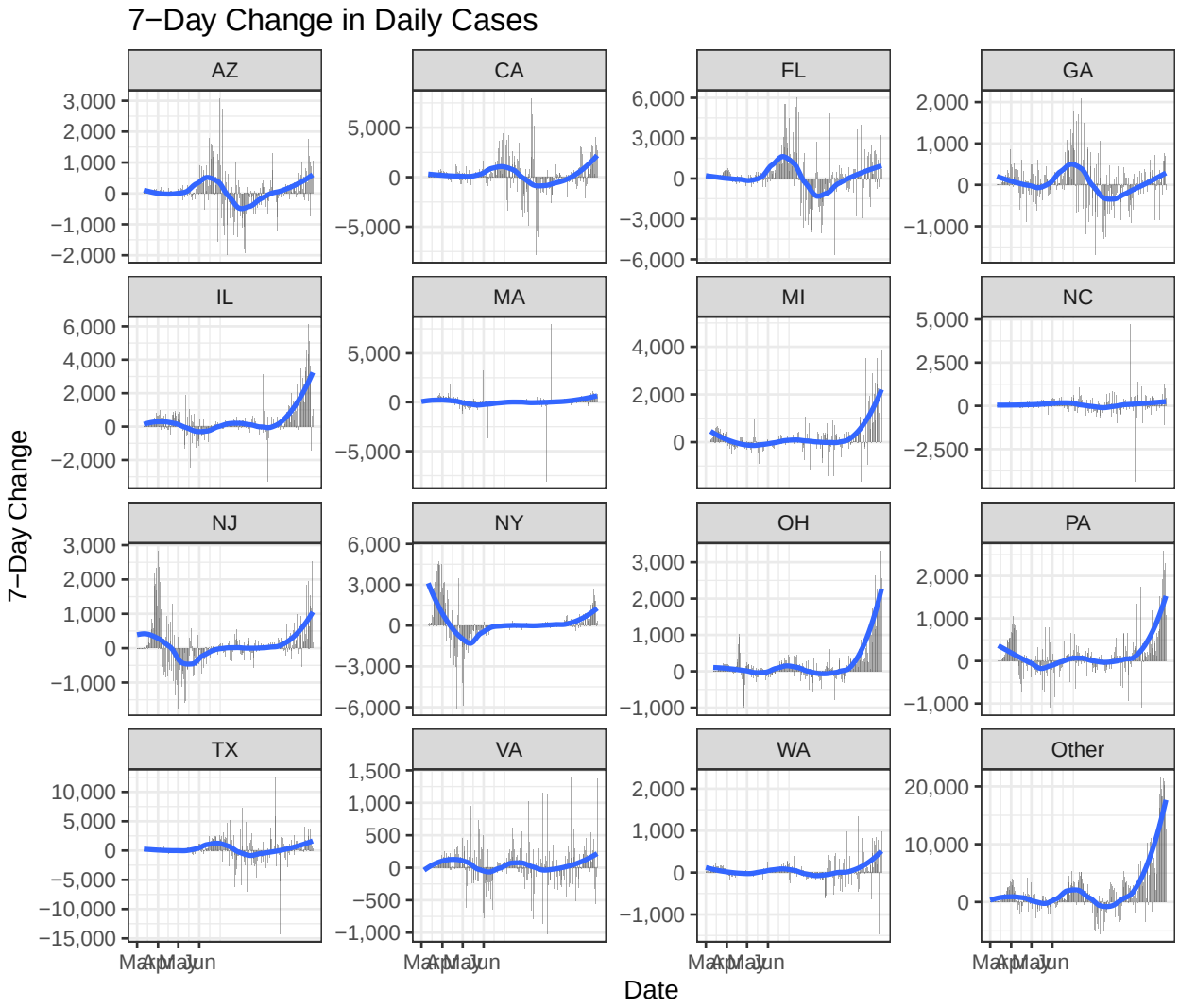

Deaths
100
316
1,000
3,162
10,000

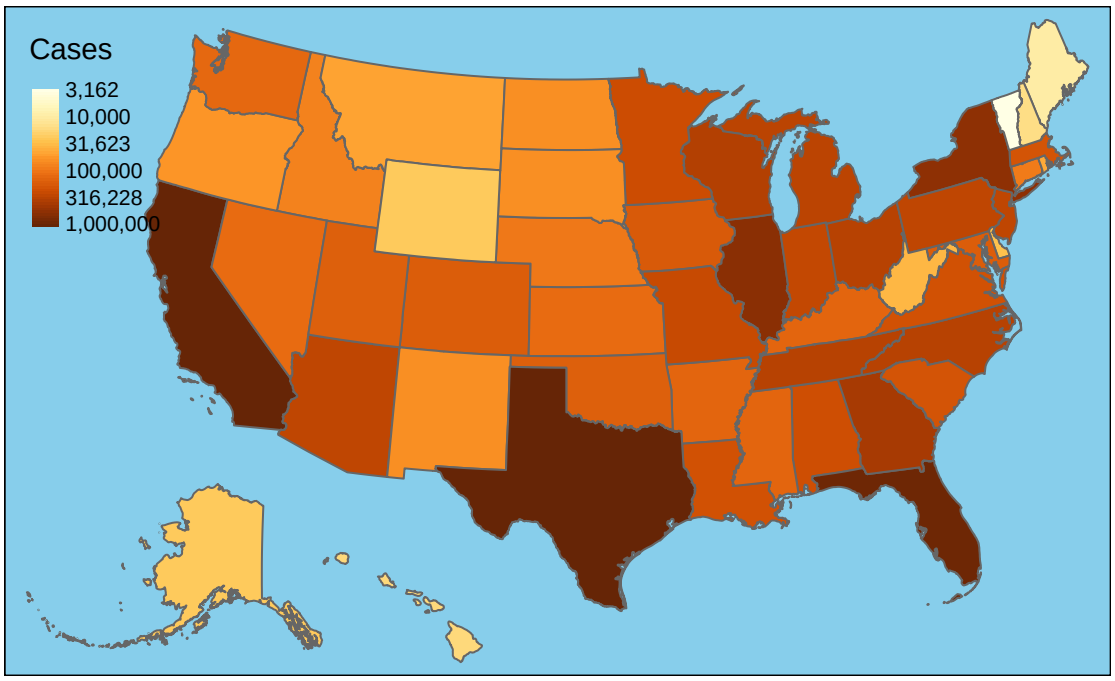

Deaths per 1M
100
158
251
398
631
1,000
1,585

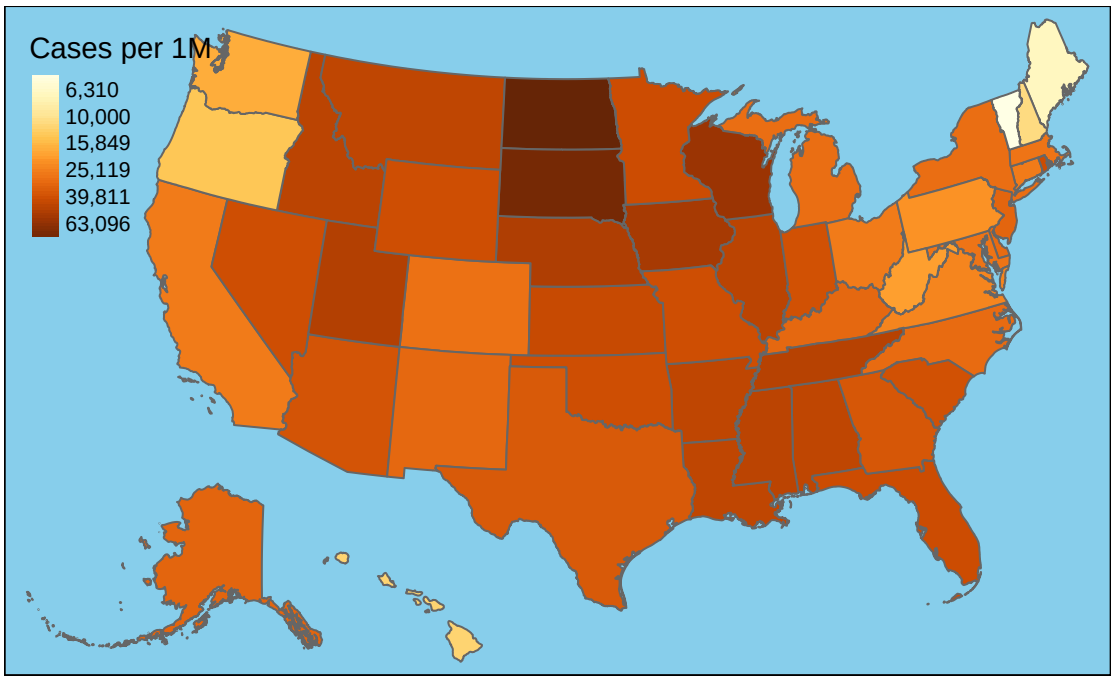
Cases


Cases by State
4,000,000
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

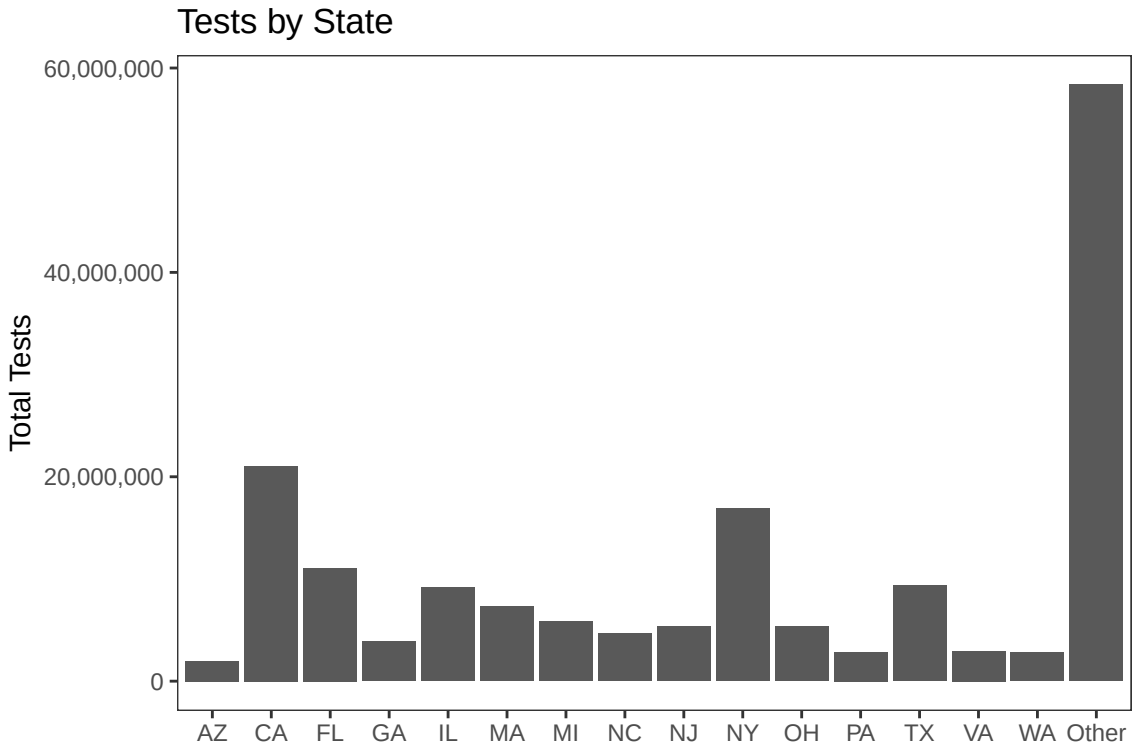

New Cases by State
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
Cases per Day
Date
Mar
Apr
May
Jun

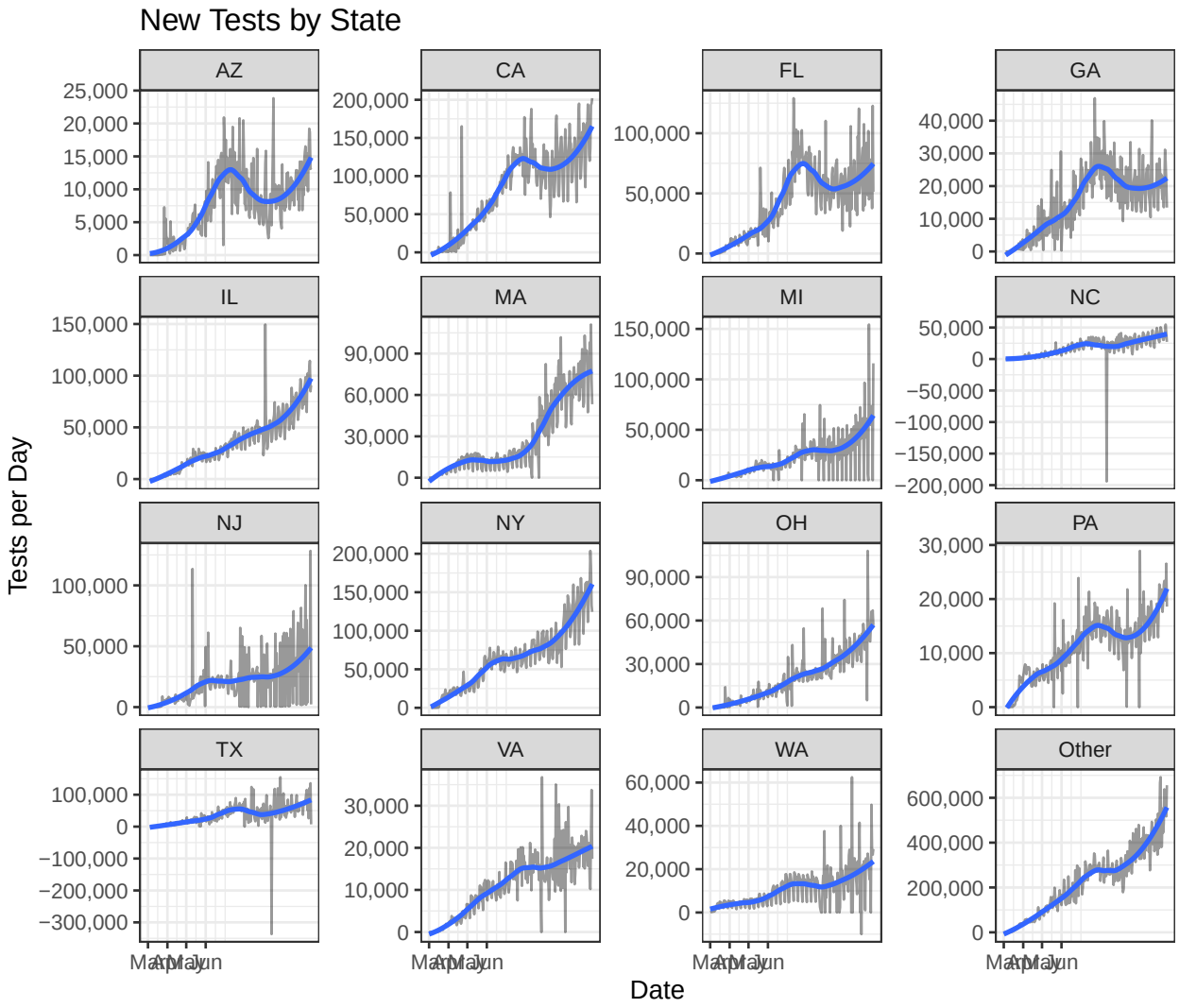

7−Day Change in Daily Cases
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
7−Day Change
Date
Mar
Apr
May
Jun

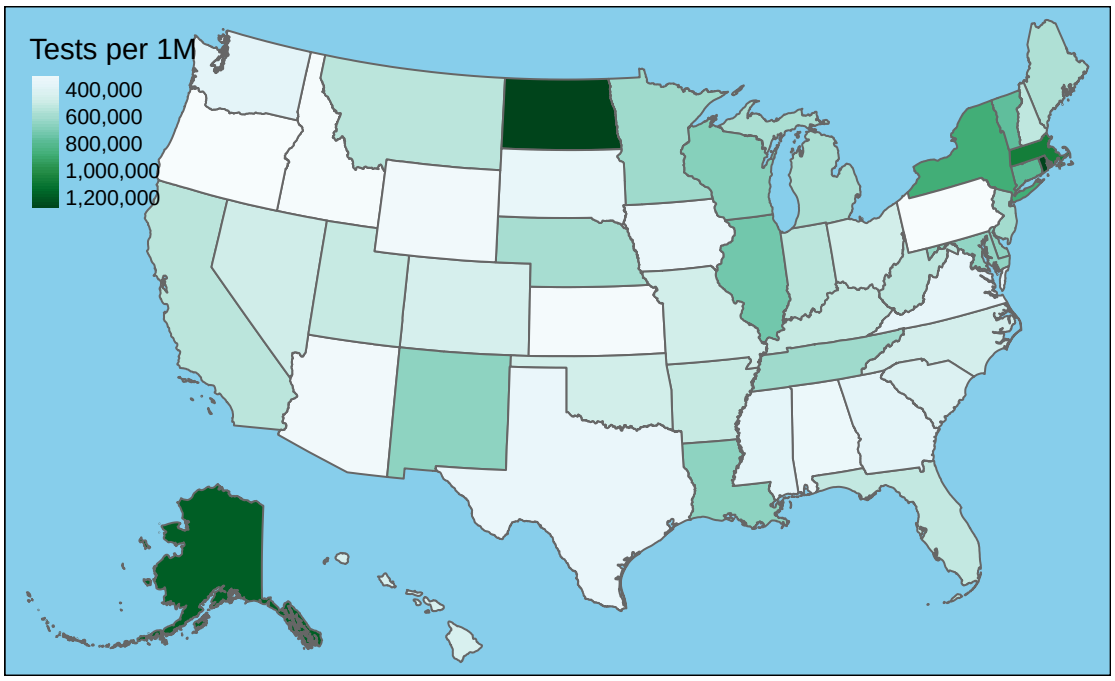

Cases
3,162
10,000
31,623
100,000
316,228
1,000,000

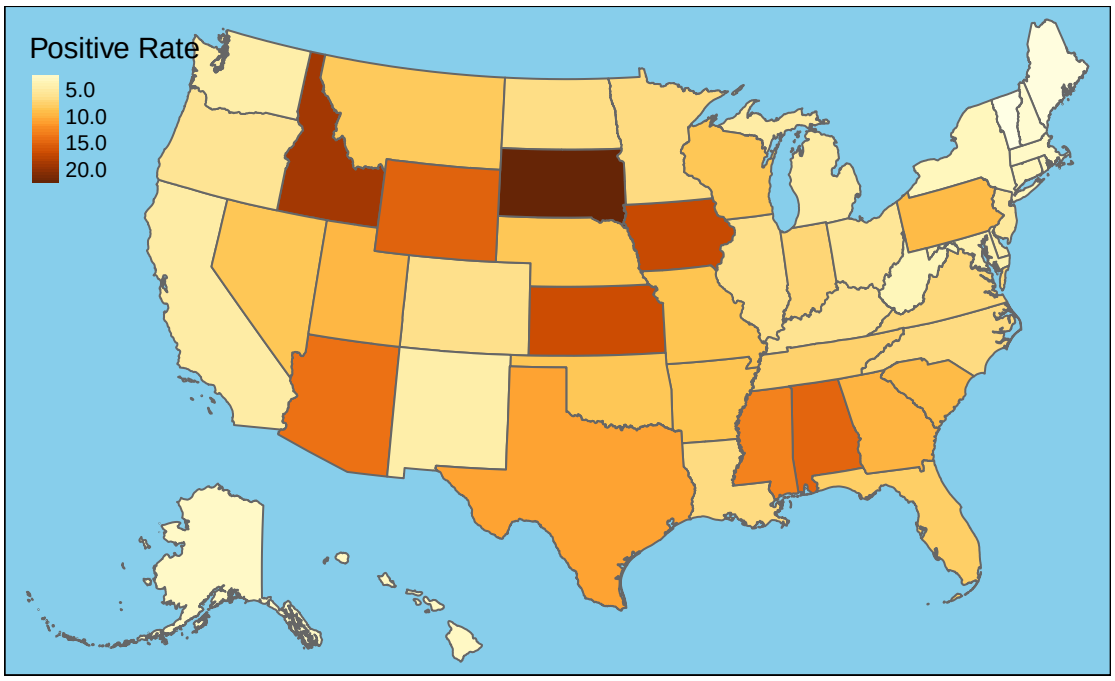

Cases per 1M
6,310
10,000
15,849
25,119
39,811
63,096

Testing

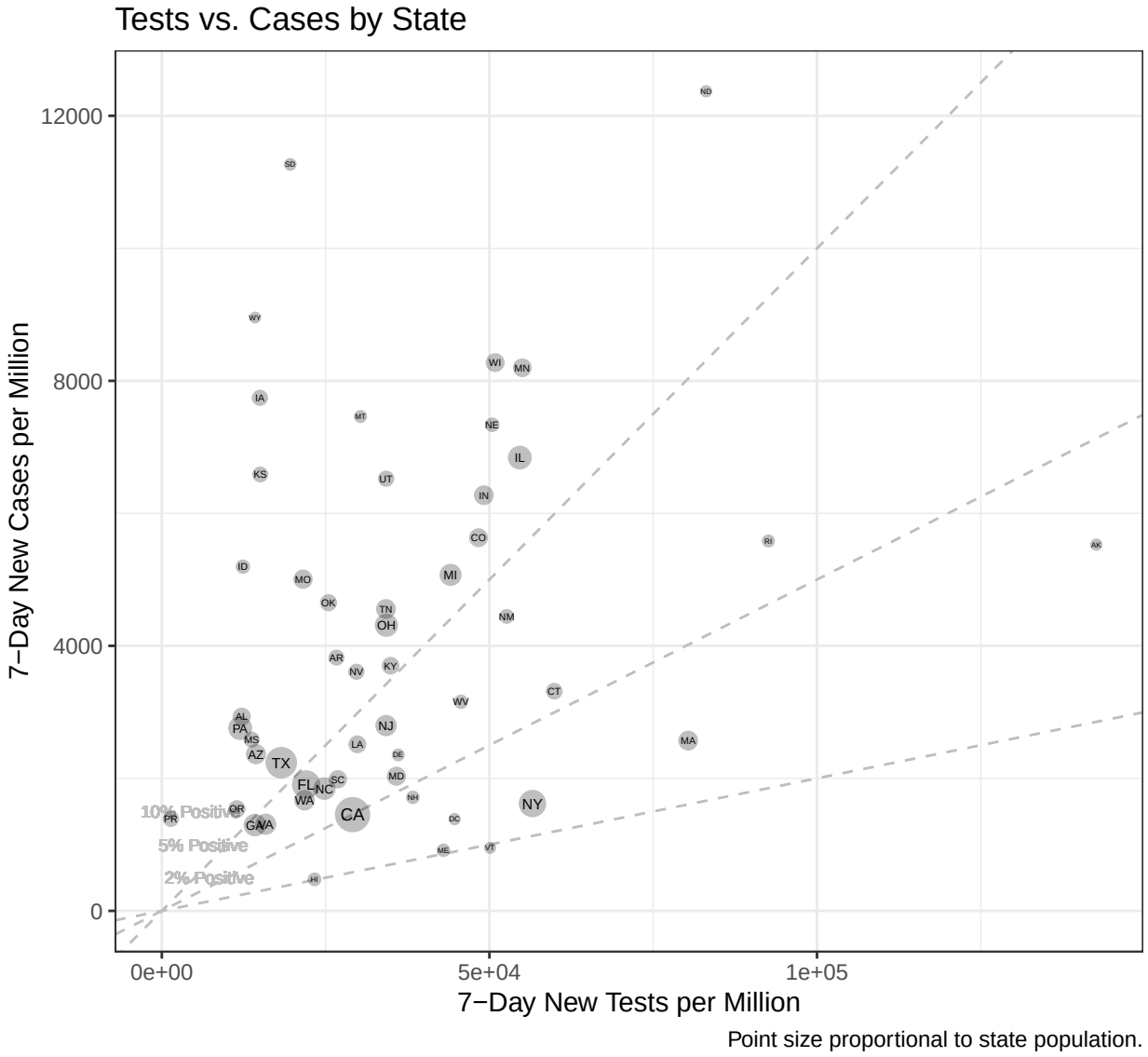

Tests by State
Total Tests
60,000,000
40,000,000
20,000,000
0
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other


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


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


Positive Rate
5.0
10.0
15.0
20.0

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.



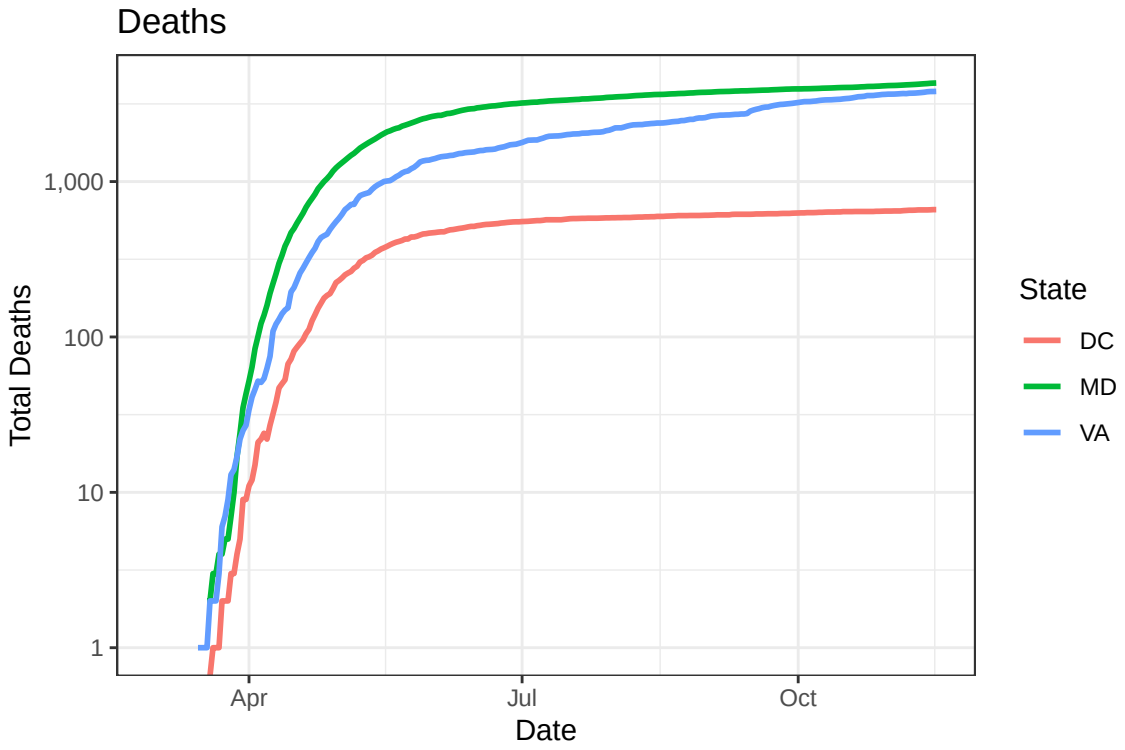
Local Data

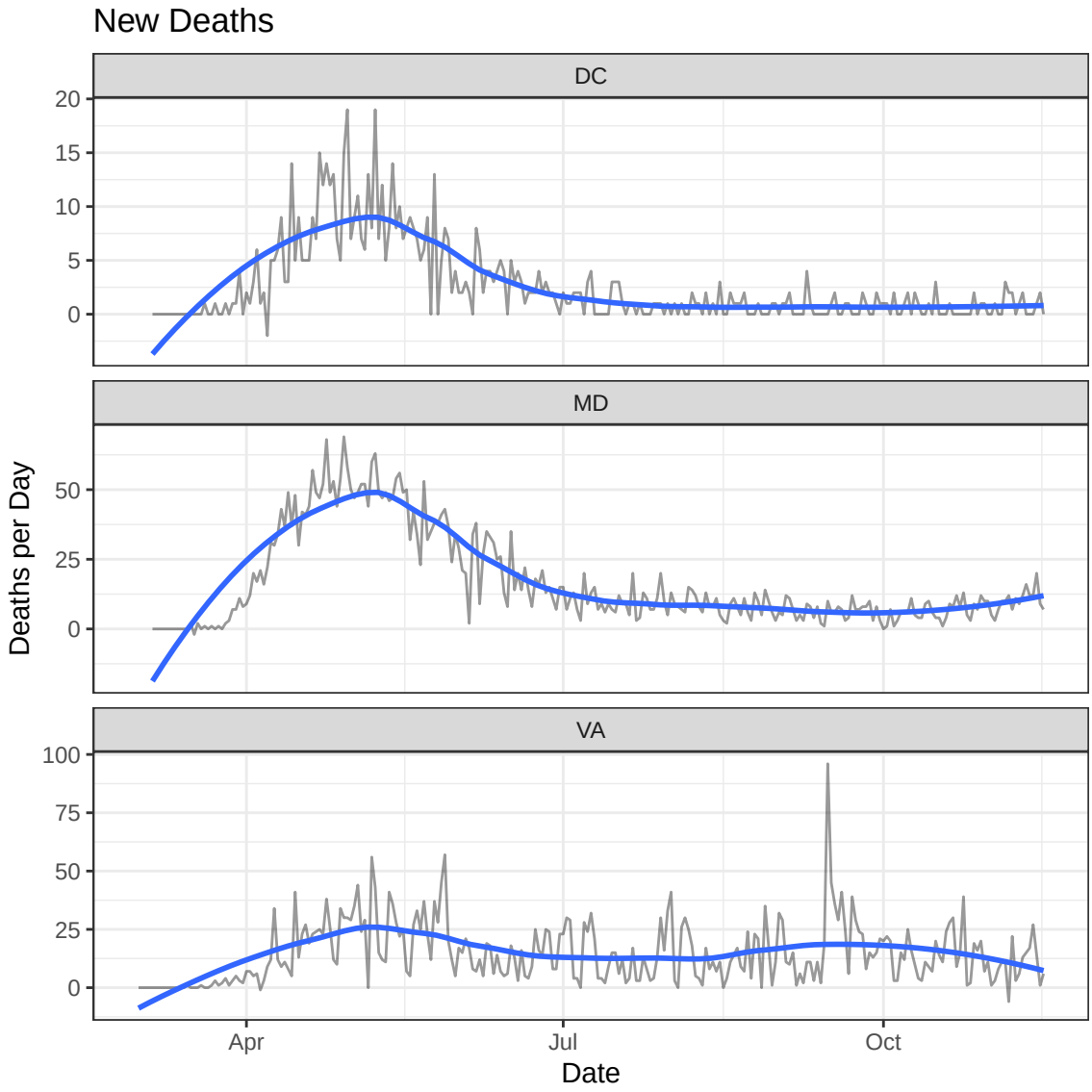
The following charts and tables present mortality, case, and testing data for the Washington DC metropolitan area and adjacent states.

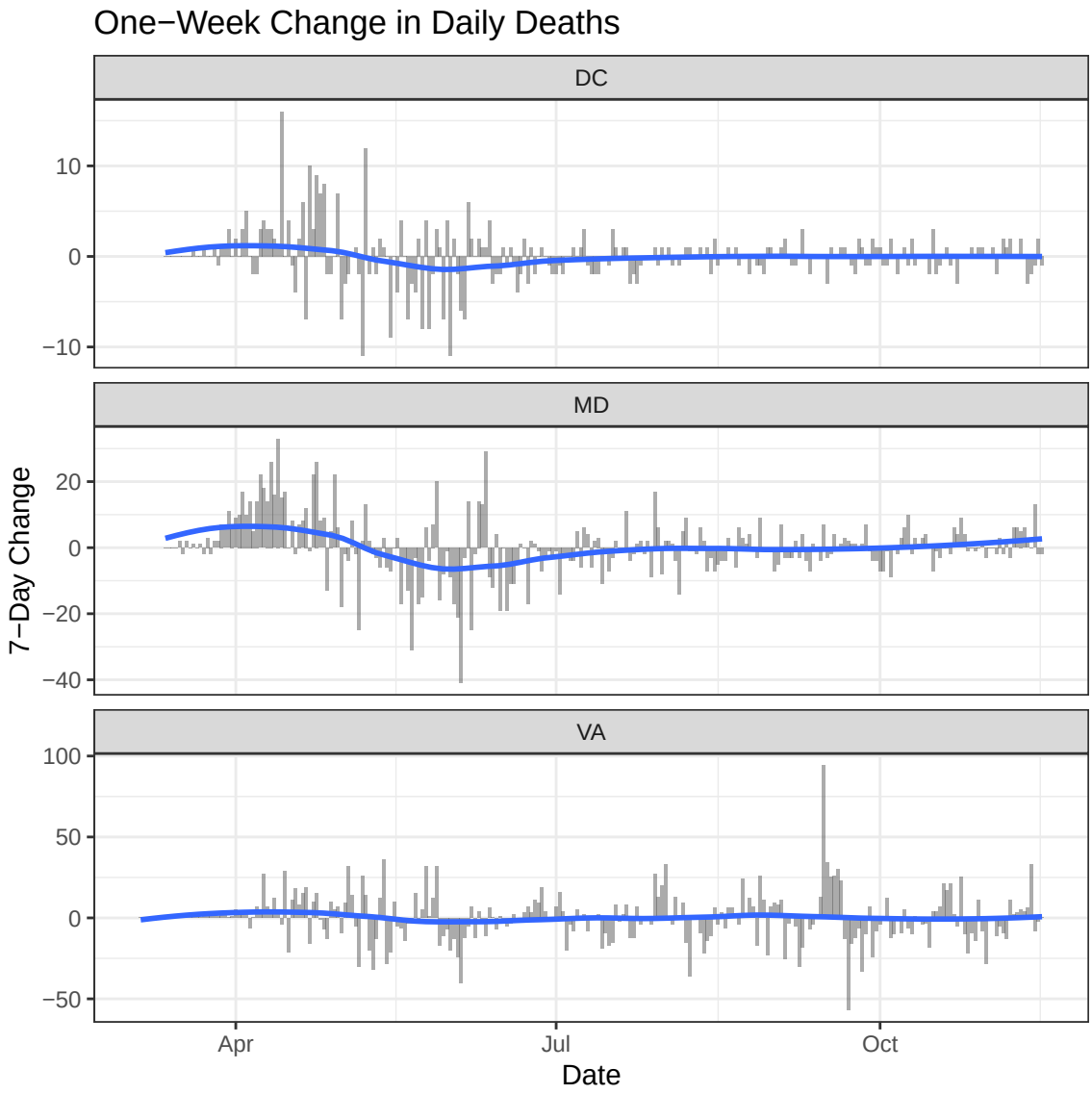
Table 3: Latest Local Data

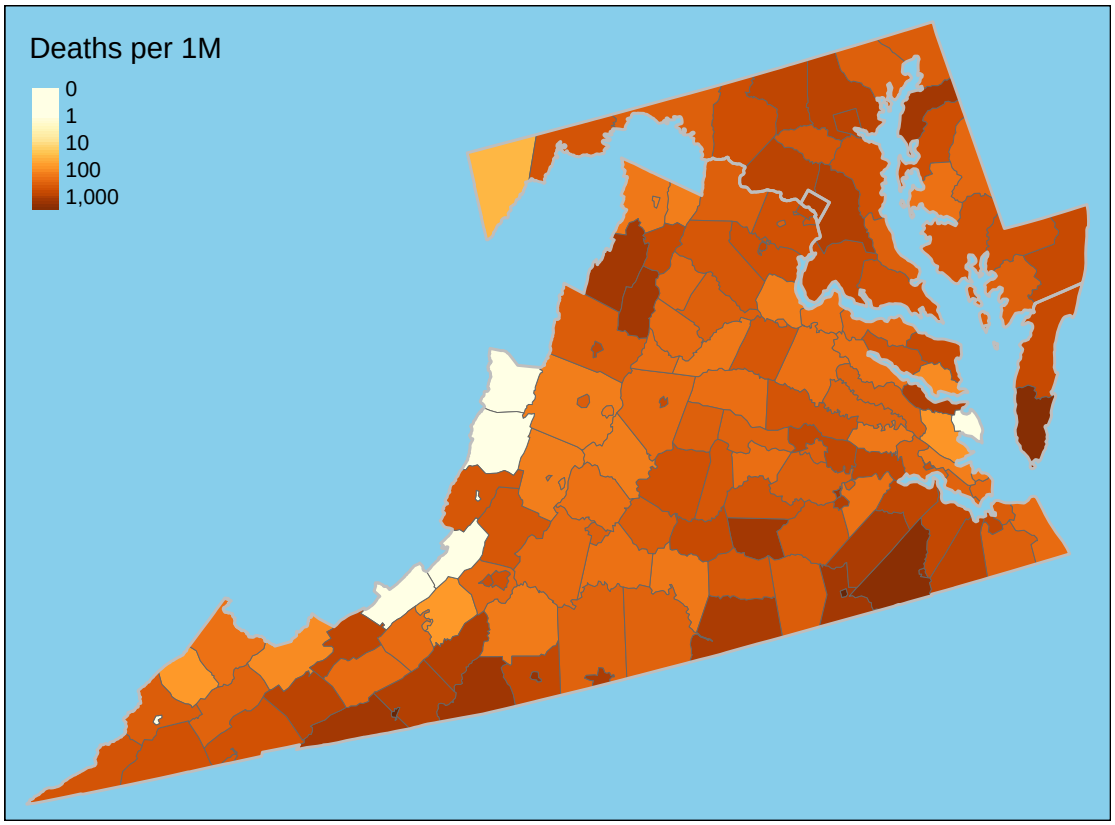
State	Cases	Deaths	New Cases	New Deaths
DC	19,064	660	87	0
MD	167,656	4,309	1,726	7
VA	204,637	3,806	2,677	6

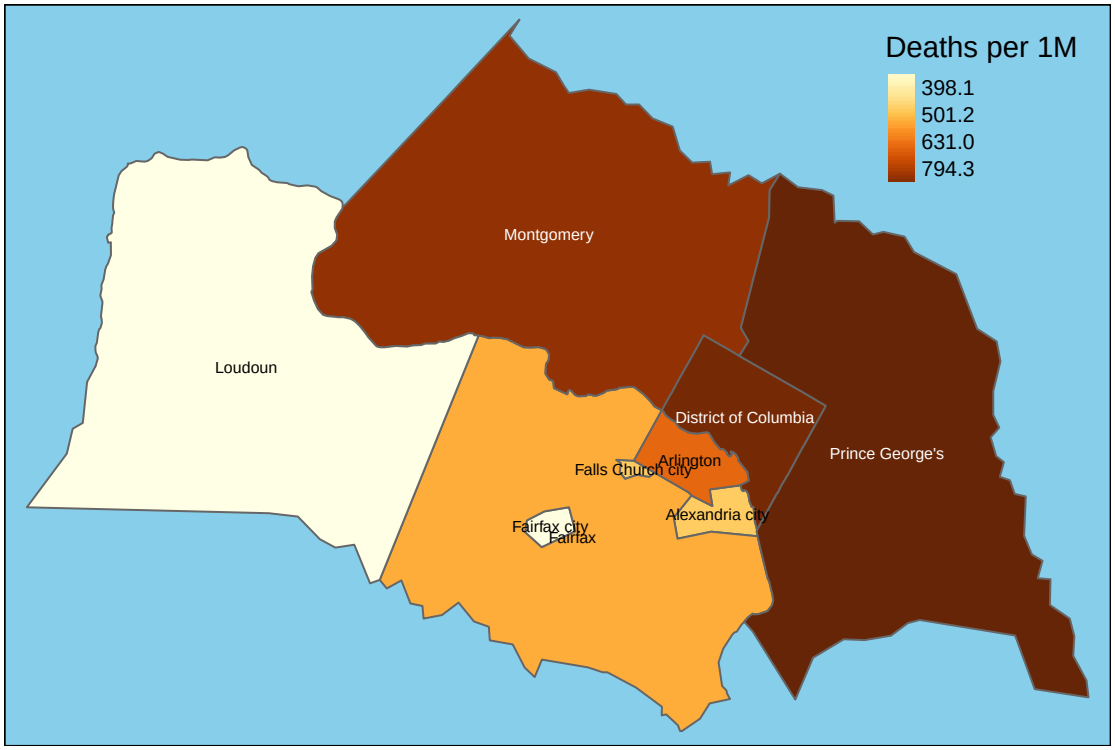
Deaths


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

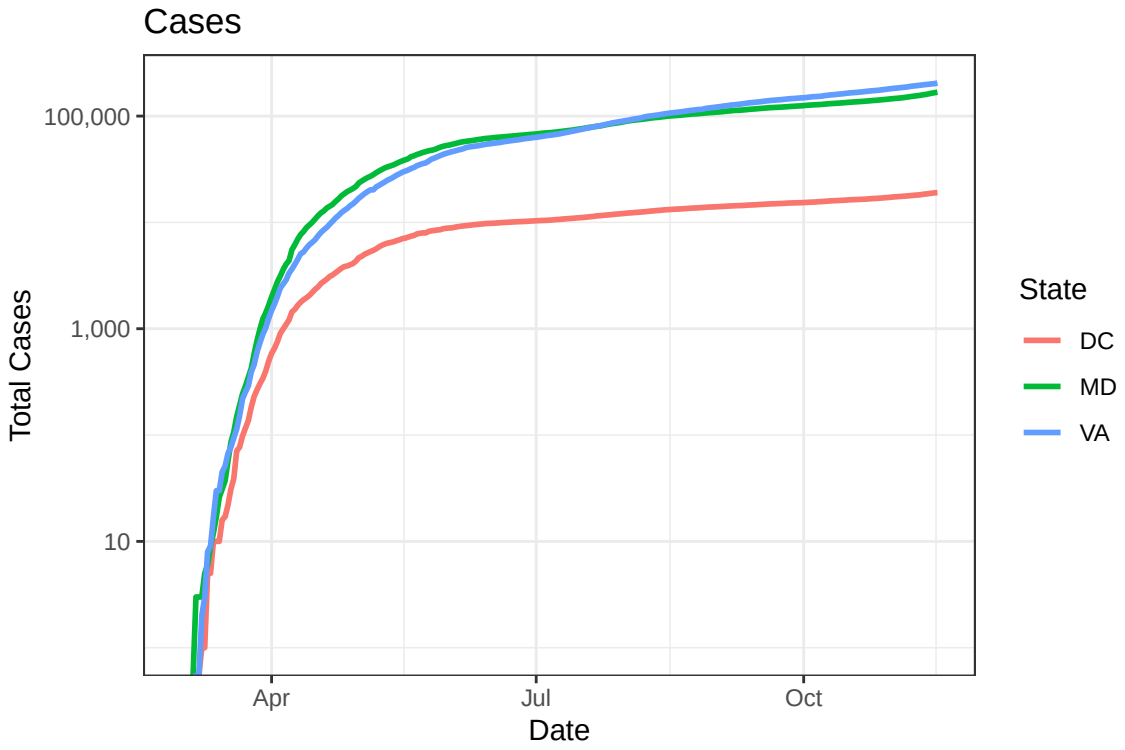

New Deaths
DC
MD
VA
Deaths per Day
20
15
10
5
0
50
25
0
100
75
50
25
0
Apr
Jul
Oct
Date

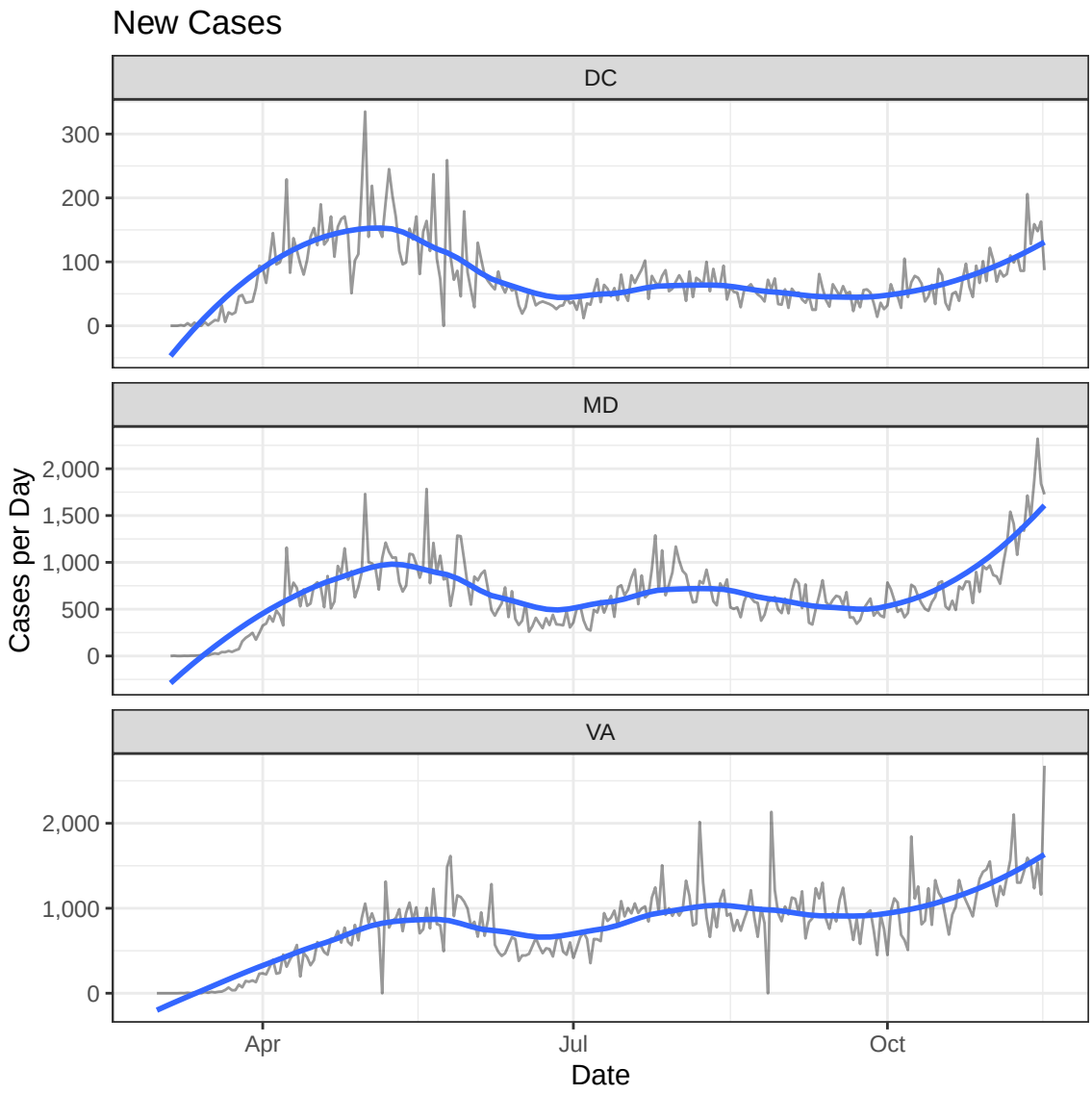

One−Week Change in Daily Deaths
DC
MD
VA
10
0
−10
20
0
−20
−40
100
50
0
−50
7−Day Change
Apr
Jul
Oct
Date

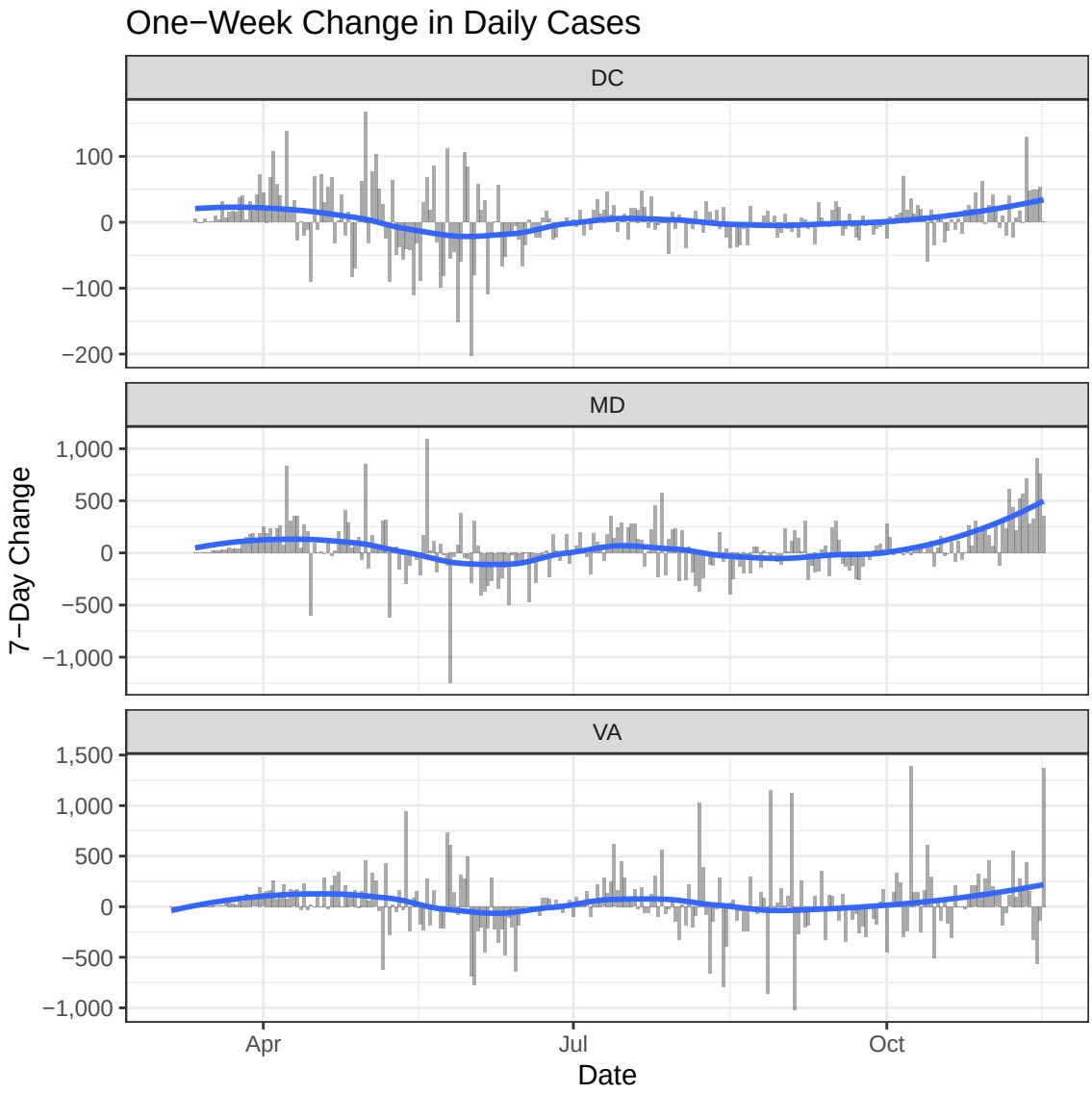

Deaths per 1M
0
1
10
100
1,000

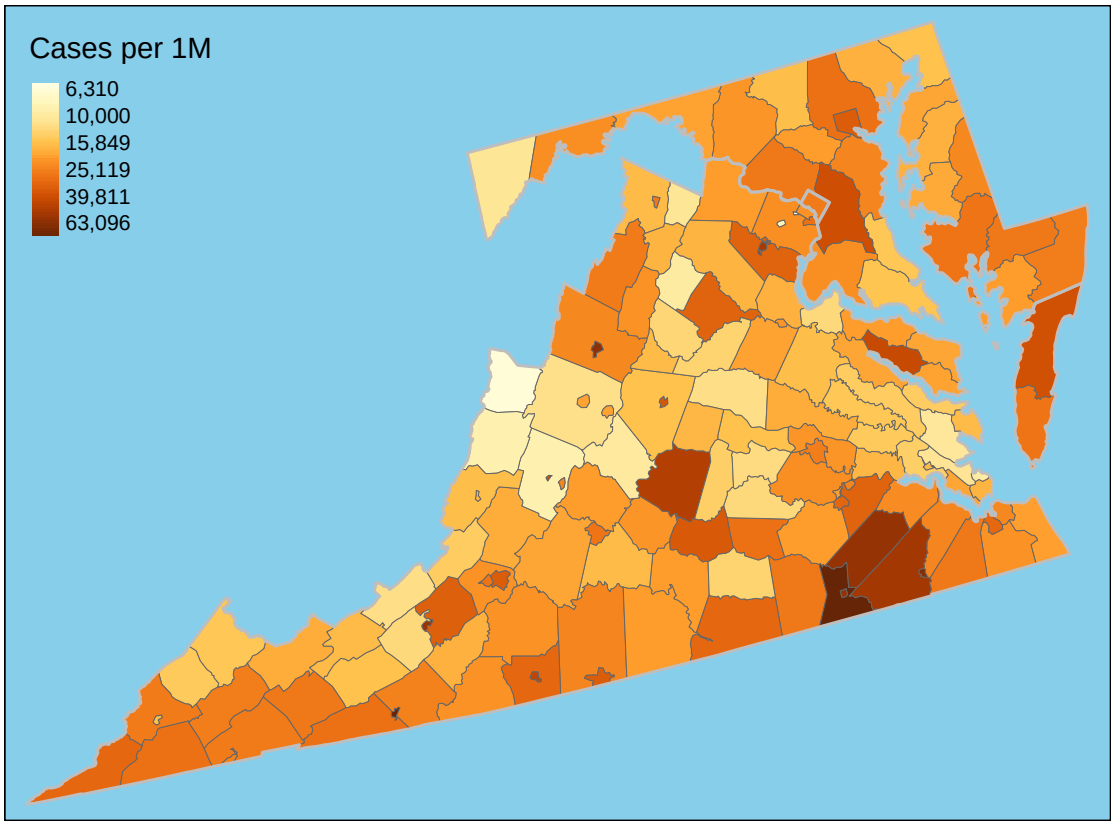

Deaths per 1M
398.1
501.2
631.0
794.3
Montgomery
Loudoun
District of Columbia
Prince George's
Arlington
Falls Church city
Alexandria city
Fairfax city
Fairfax

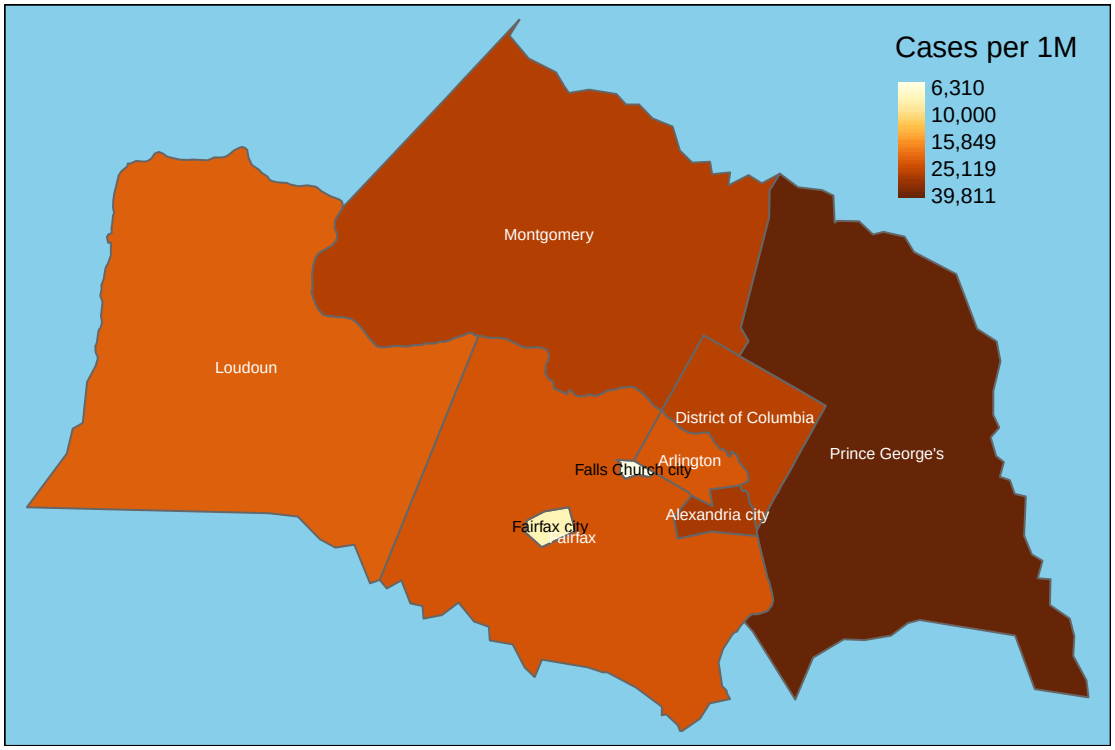
Cases


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

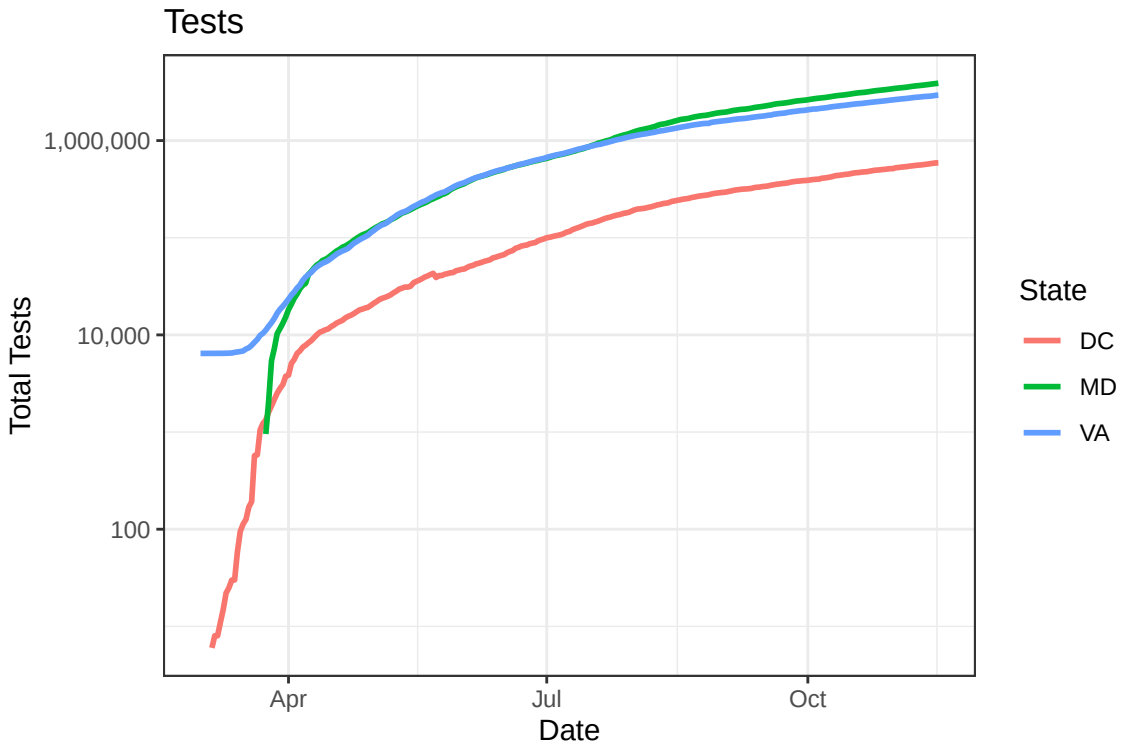

New Cases
DC
MD
VA
300
200
100
0
2,000
1,500
1,000
500
0
2,000
1,000
0
Cases per Day
Apr
Jul
Oct
Date

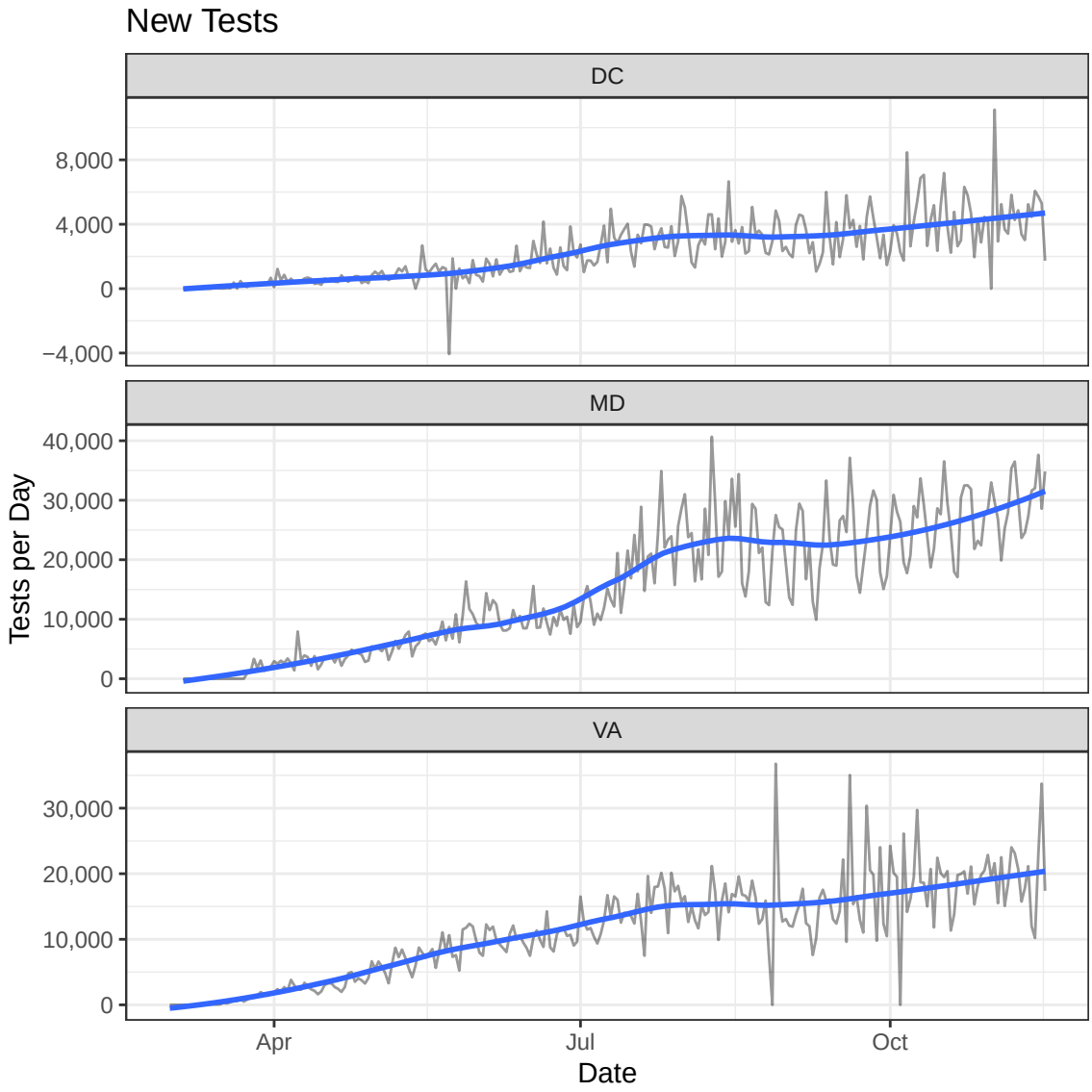

One−Week Change in Daily Cases
DC
MD
VA
7−Day Change
100
0
−100
−200
1,000
500
0
−500
−1,000
1,500
1,000
500
0
−500
−1,000
Apr
Jul
Oct
Date

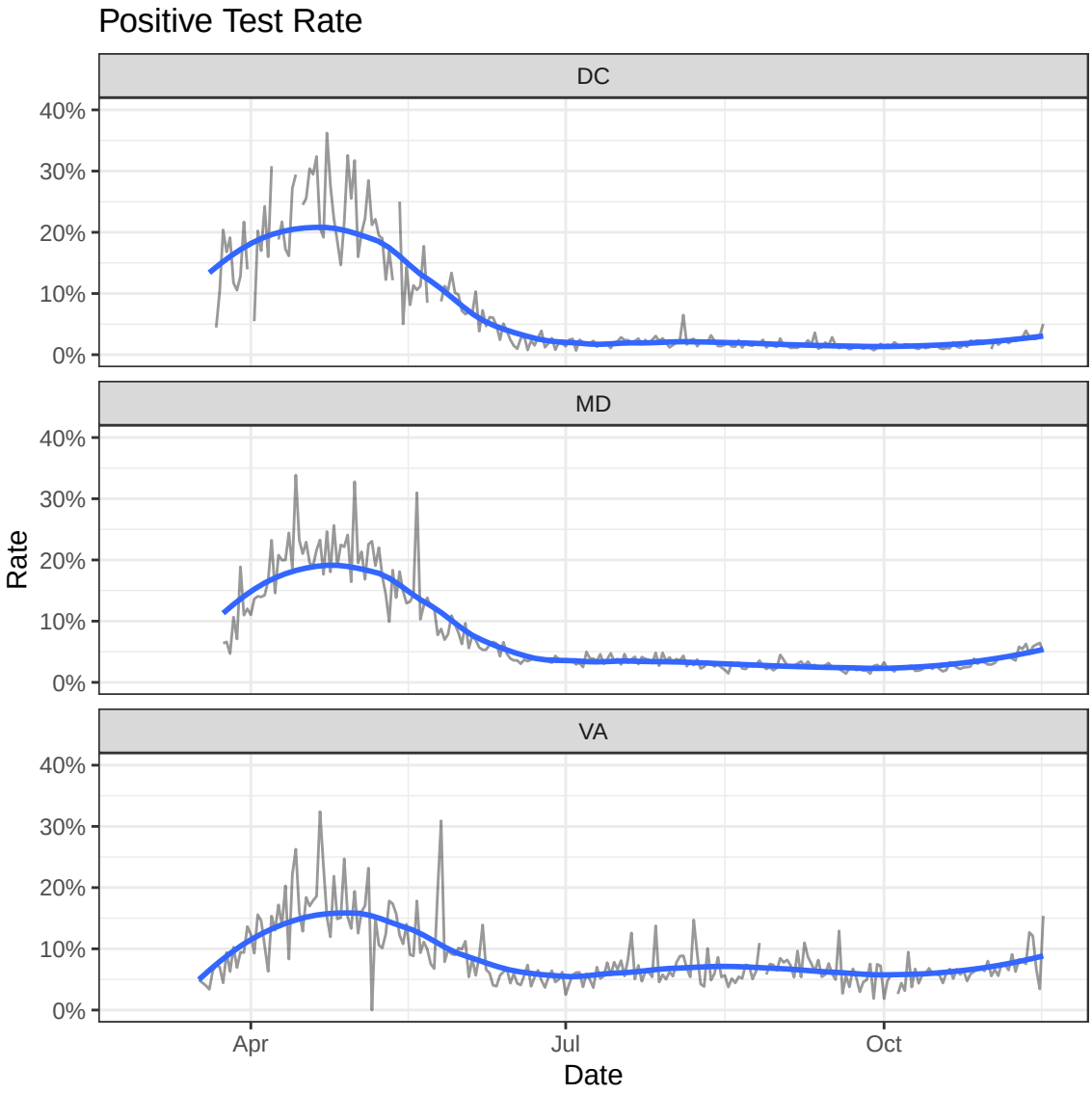

Cases per 1M
6,310
10,000
15,849
25,119
39,811
63,096


Cases per 1M
6,310
10,000
15,849
25,119
39,811
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
8,000
4,000
0
−4,000
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