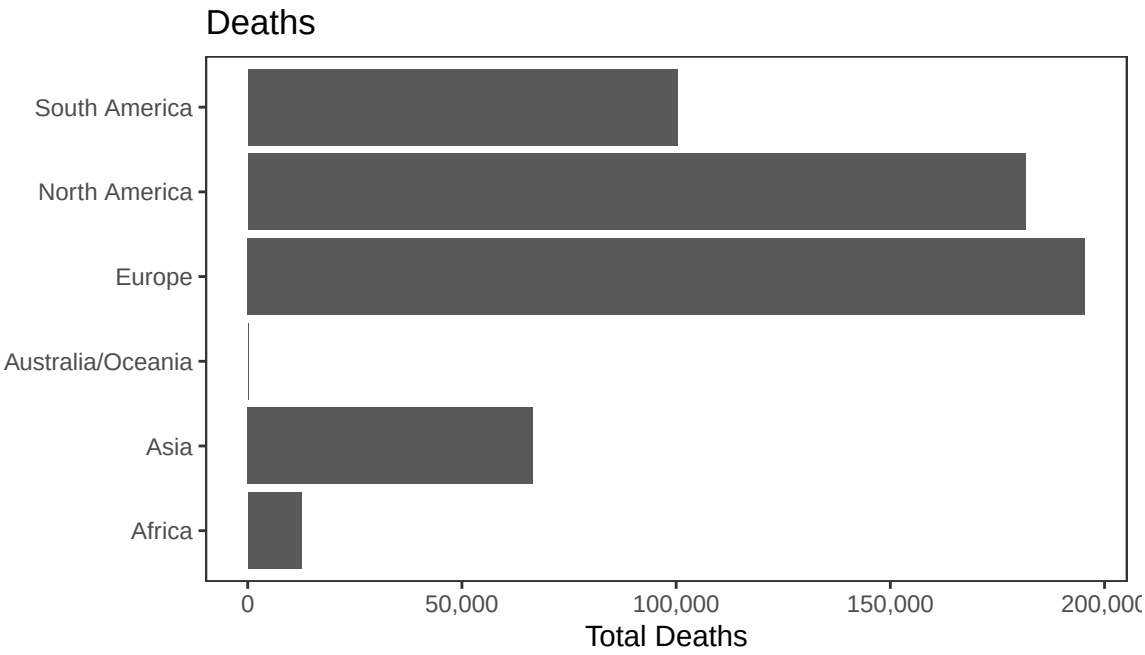
Erik's Covid-19 Chart Pack

Data updated 2020-07-10 09:47:59. 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 12,379,259 confirmed Covid-19 cases and 556,608 deaths worldwide.



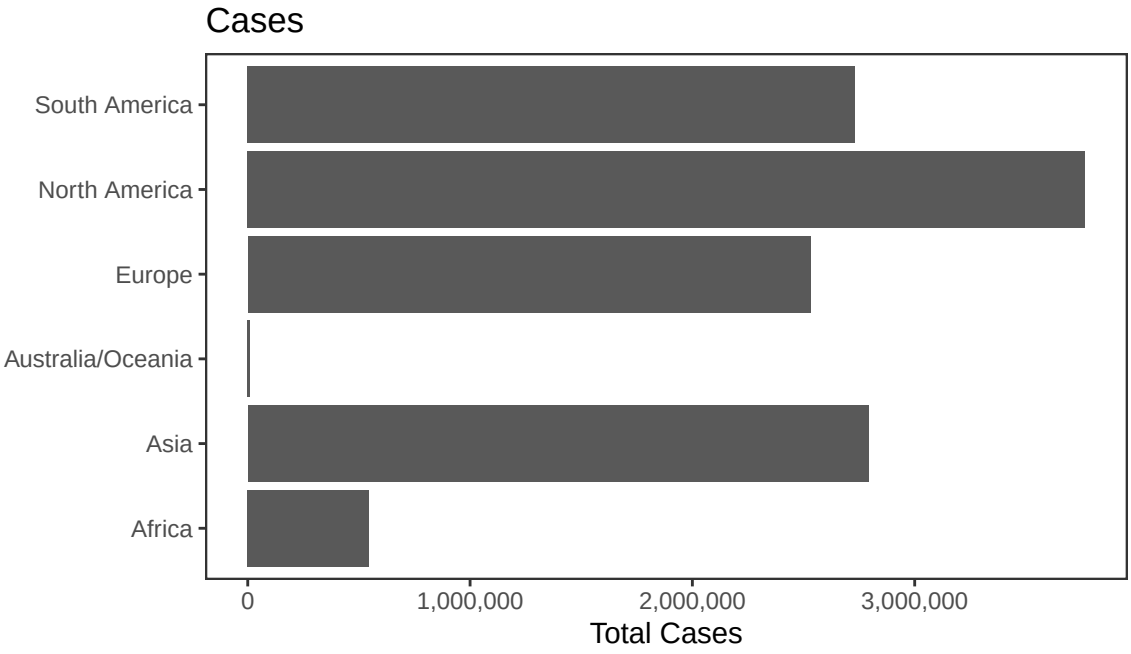
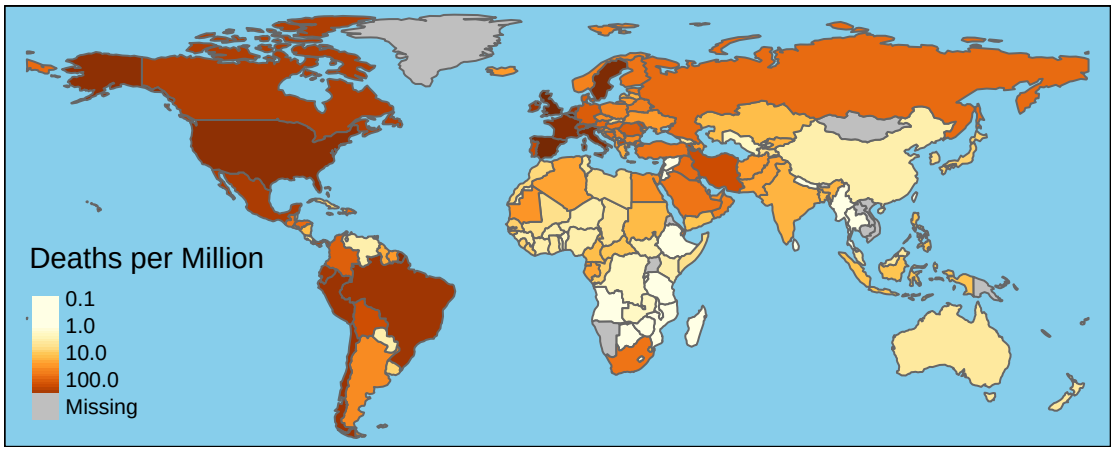
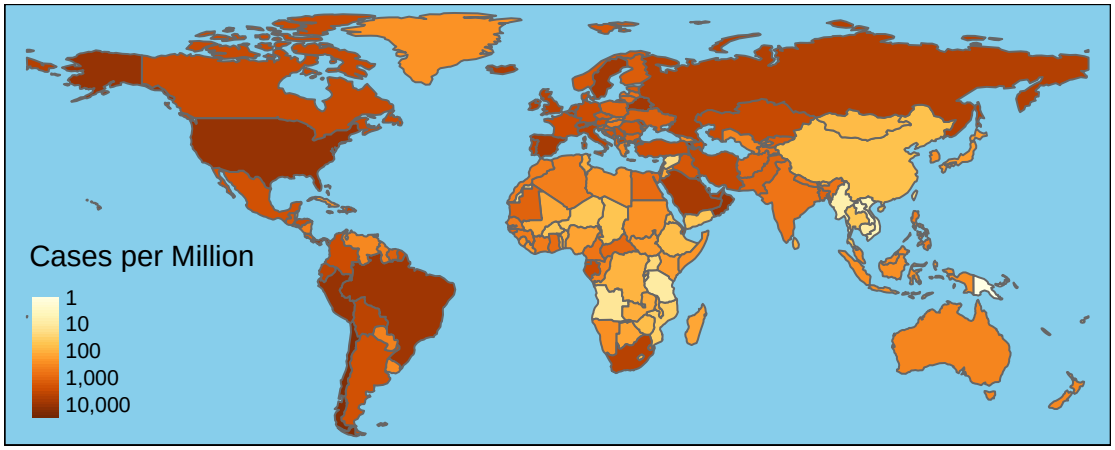
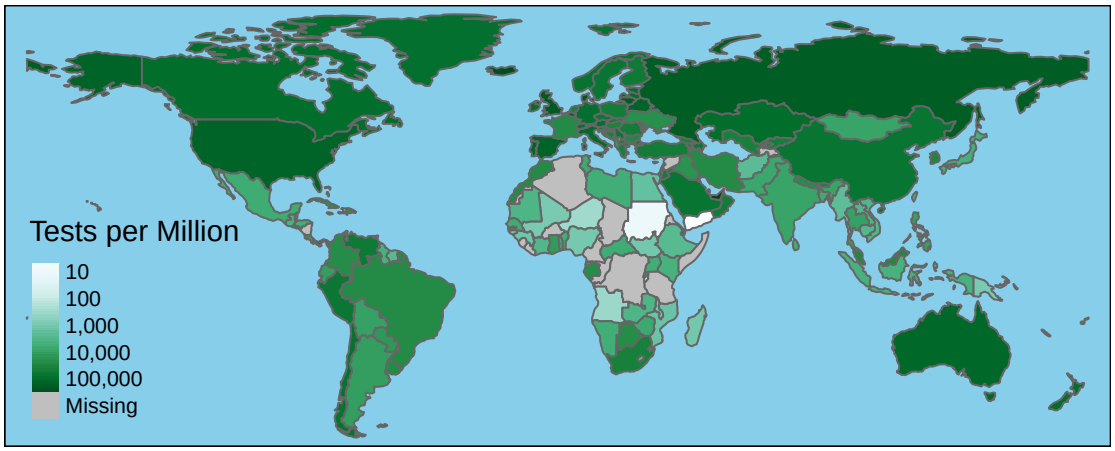


Table 1: Top Countries by Total Cases

Country	Cases	Deaths	New Cases	New Deaths
USA	3,219,999	135,822	61,067	960
Brazil	1,759,103	69,254	42,907	1,199
India	794,842	21,623	25,790	479
Russia	707,301	10,843	6,509	176
Peru	316,448	11,314	3,537	181
Chile	306,216	6,682	3,133	109
Spain	300,136	28,401	543	5
UK	287,621	44,602	642	85
Mexico	275,003	32,796	6,995	782
Iran	250,458	12,305	2,079	221
Italy	242,363	34,926	214	12
Pakistan	240,848	4,983	3,359	61
South Africa	238,339	3,720	13,674	118
Saudi Arabia	223,327	2,100	3,183	41
Turkey	209,962	5,300	1,024	18
Germany	199,198	9,125	433	10
Bangladesh	175,494	2,238	3,360	41
France	170,094	29,979	621	14
Colombia	133,973	4,714	5,335	187
Canada	106,805	8,749	371	12


Deaths per Million
0.1
1.0
10.0
100.0
Missing


Cases per Million
1
10
100
1,000
10,000


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

National Data

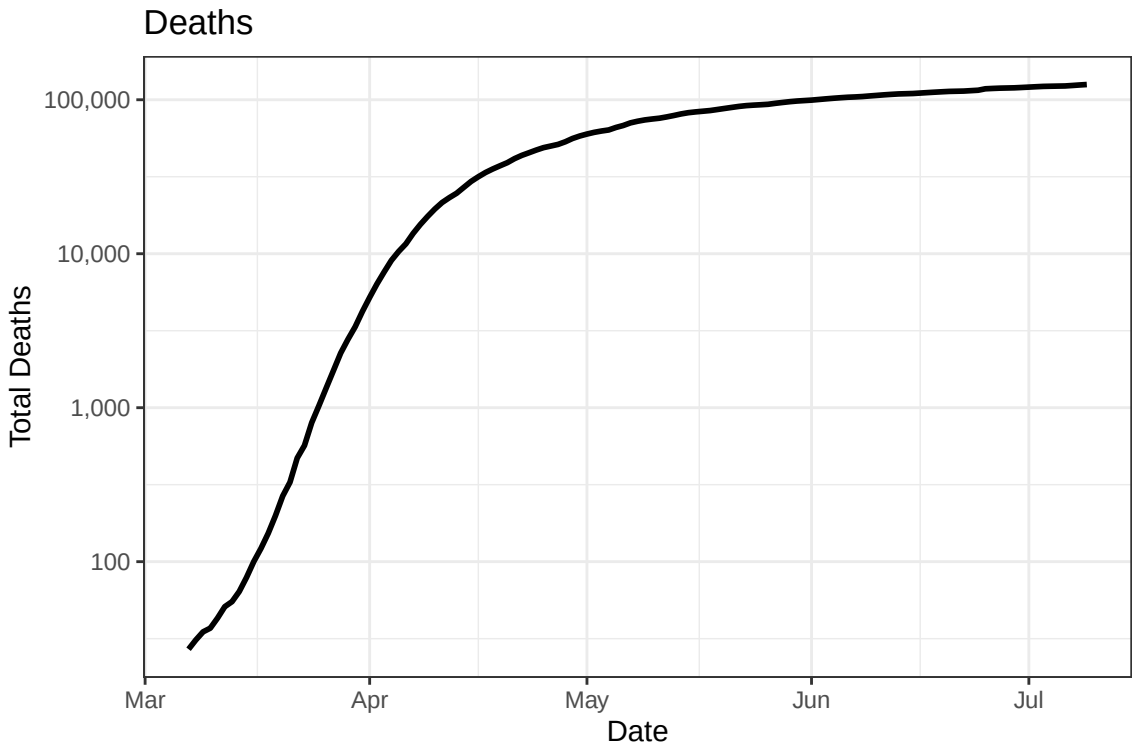
There have been 3,101,339 confirmed Covid-19 cases and 125,590 deaths in the United States.

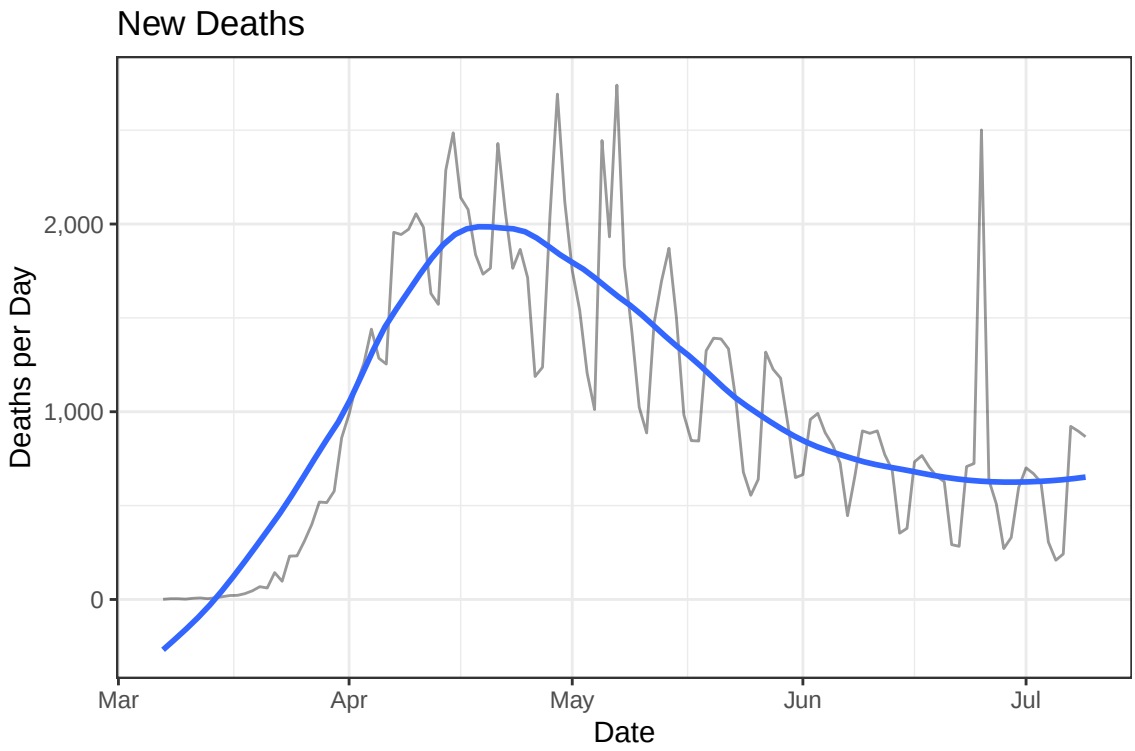
Table 2: U.S. Deaths and Cases over the Last Two Weeks

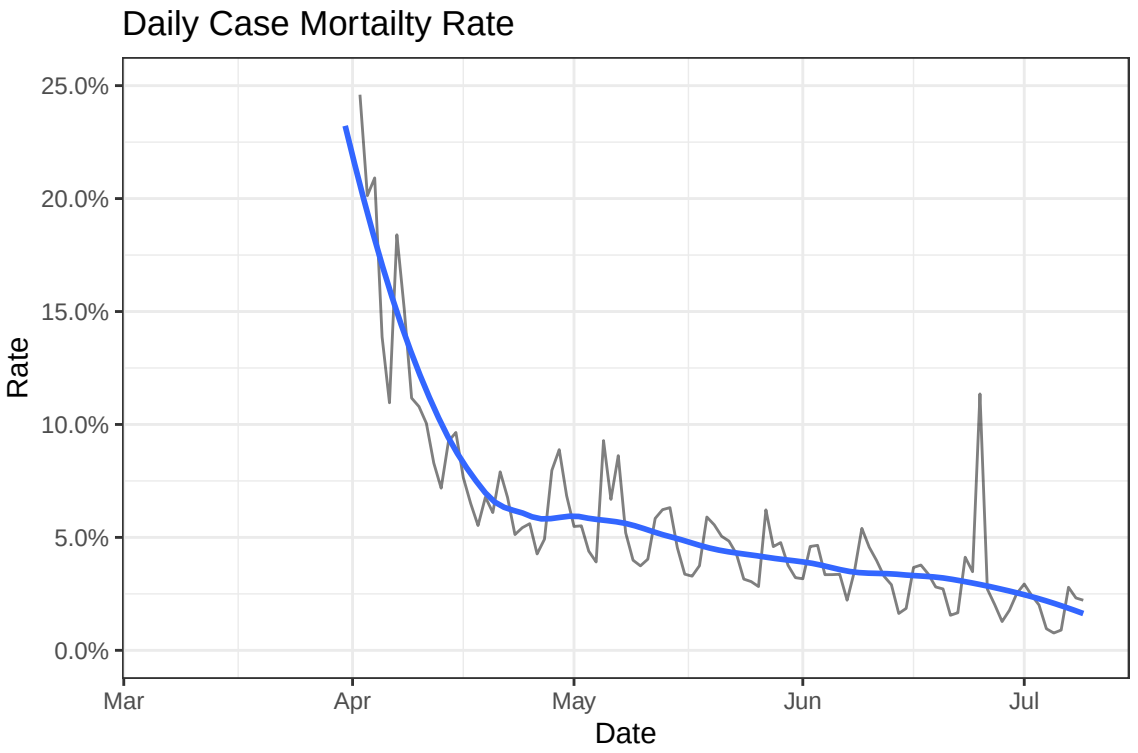
Date	Cases	Deaths	New Cases	New Deaths
2020-07-09	3,101,339	125,590	58,836	867
2020-07-08	3,042,503	124,723	62,147	897
2020-07-07	2,980,356	123,826	51,766	922
2020-07-06	2,928,590	122,904	47,430	242
2020-07-05	2,881,160	122,662	42,602	209
2020-07-04	2,838,558	122,453	52,433	306
2020-07-03	2,786,125	122,147	57,534	624
2020-07-02	2,728,591	121,523	53,655	670
2020-07-01	2,674,936	120,853	53,007	701
2020-06-30	2,621,929	120,152	44,349	596
2020-06-29	2,577,580	119,556	36,423	330
2020-06-28	2,541,157	119,226	42,183	271
2020-06-27	2,498,974	118,955	43,507	509
2020-06-26	2,455,467	118,446	44,421	636

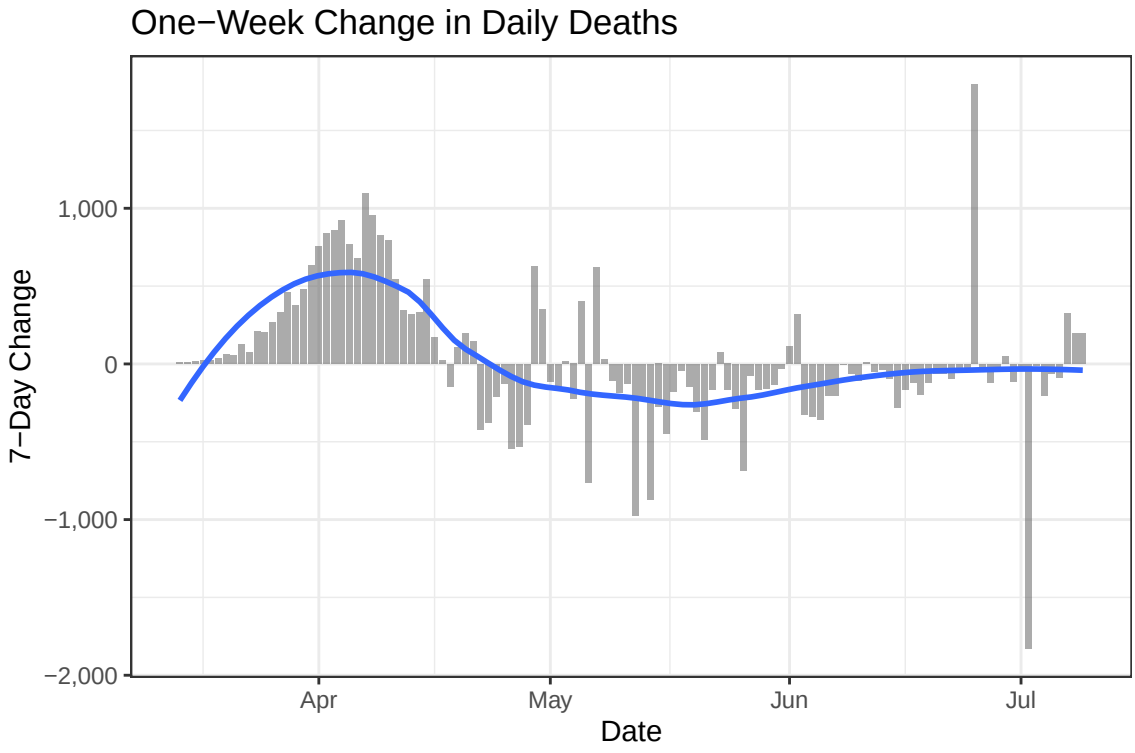
Deaths

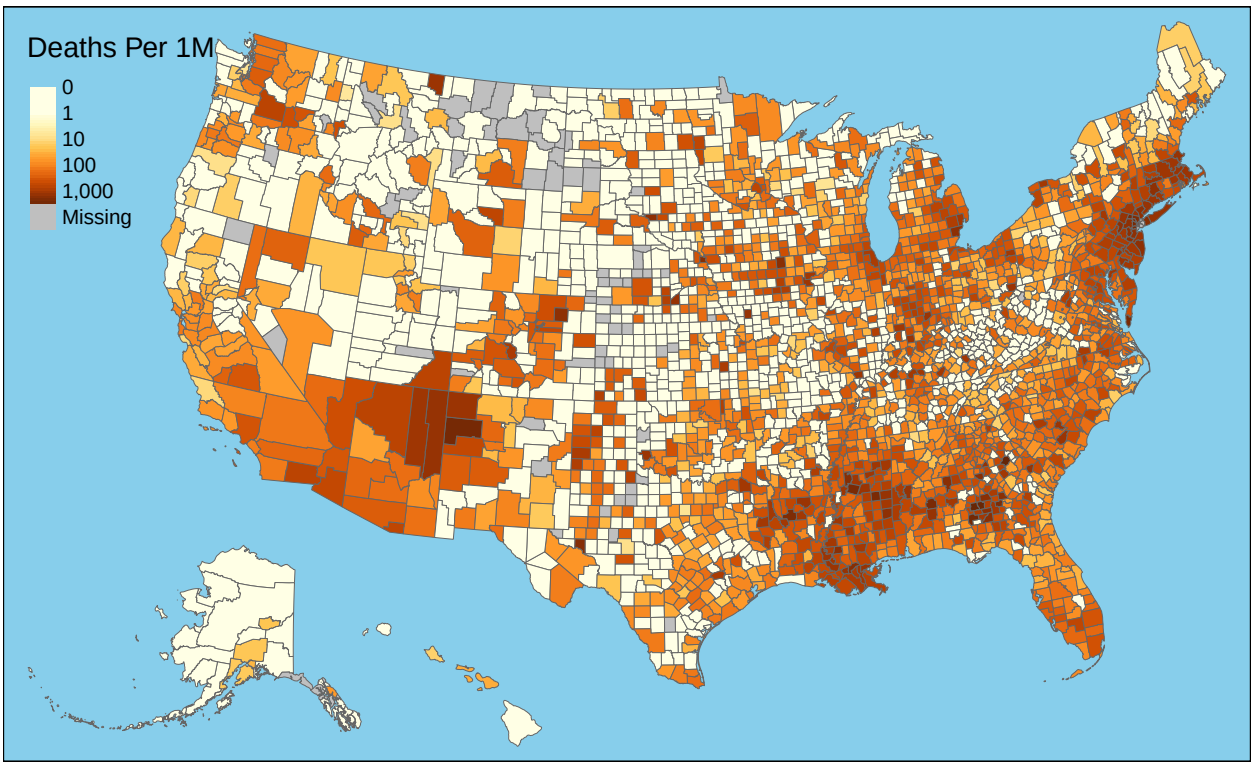
Because the effects of the virus can take several weeks to manifest in patients, deaths are a lagging indicator of contagion, but they may be a more reliable than case counts, which are a function of both the prevalence of the disease and the rate of testing. The case mortality rate is a very crude indicator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





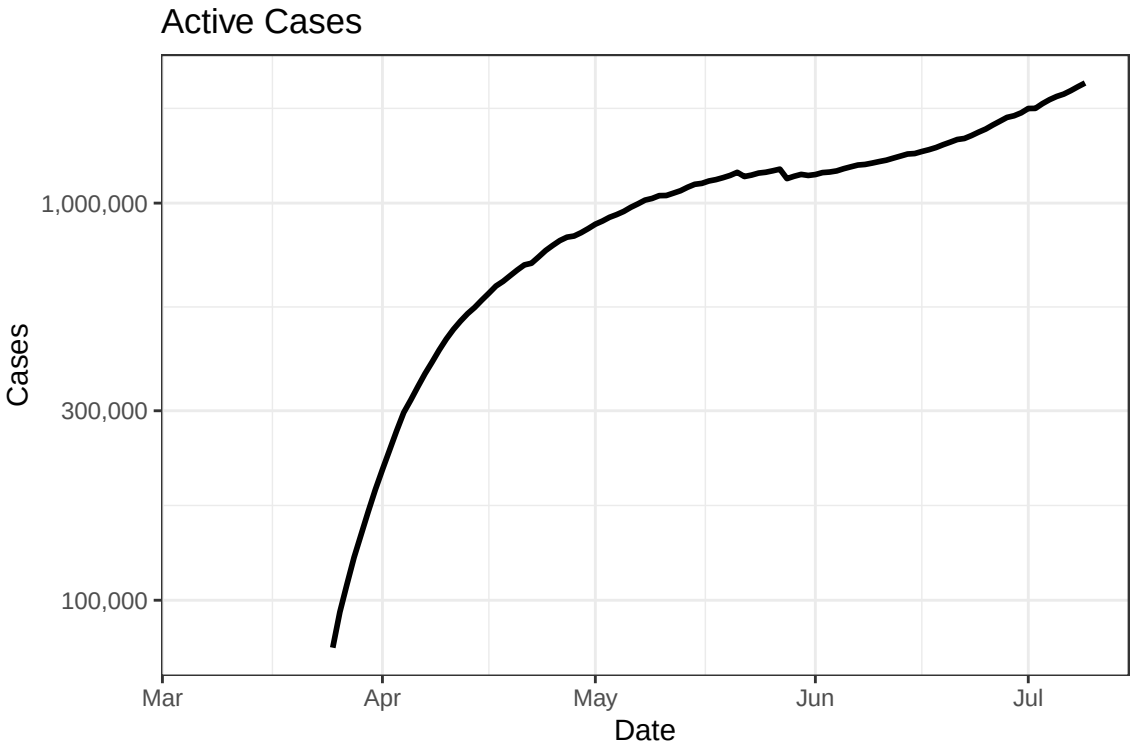

Daily Case Mortailty Rate
25.0%
20.0%
15.0%
10.0%
5.0%
0.0%
Rate
Mar
Apr
May
Jun
Jul
Date

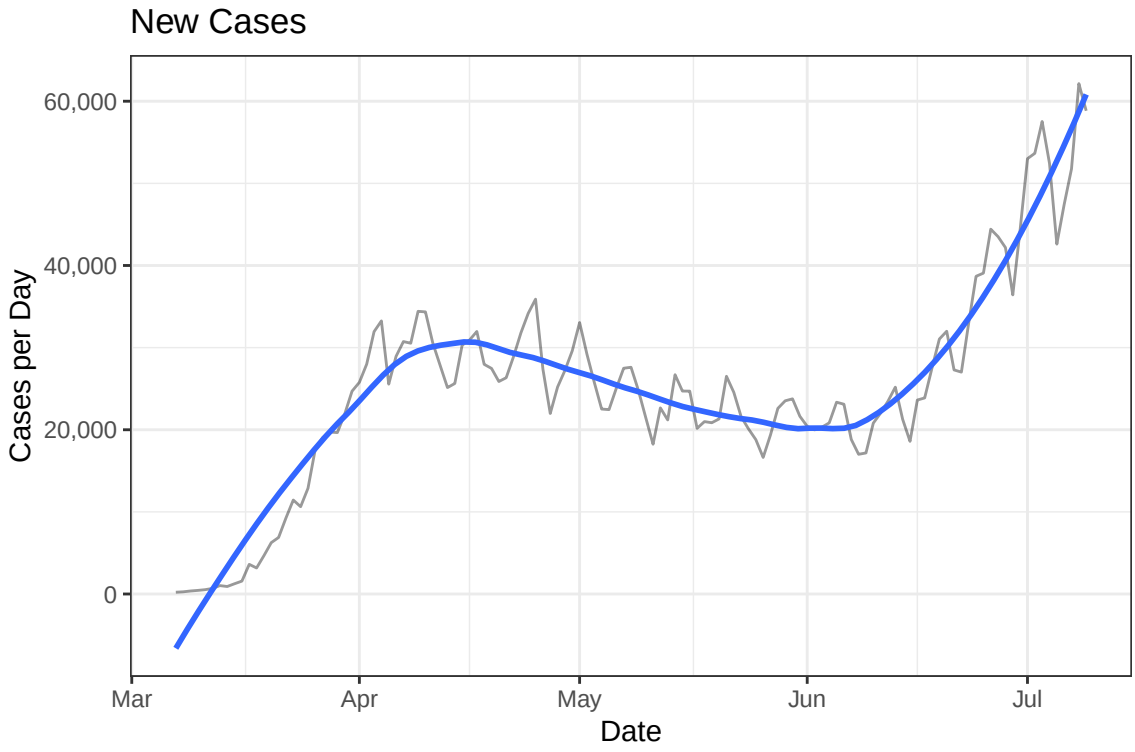

One−Week Change in Daily Deaths
1,000
0
−1,000
−2,000
7−Day Change
Apr
May
Jun
Jul
Date

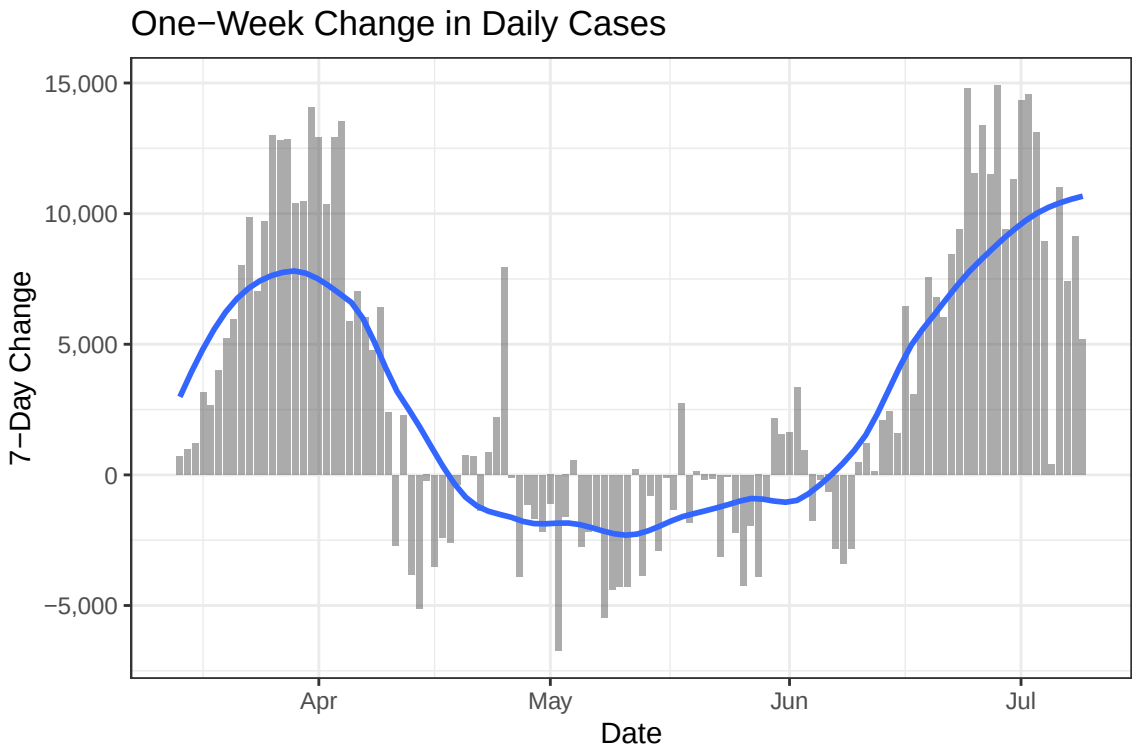

Deaths Per 1M
0
1
10
100
1,000
Missing

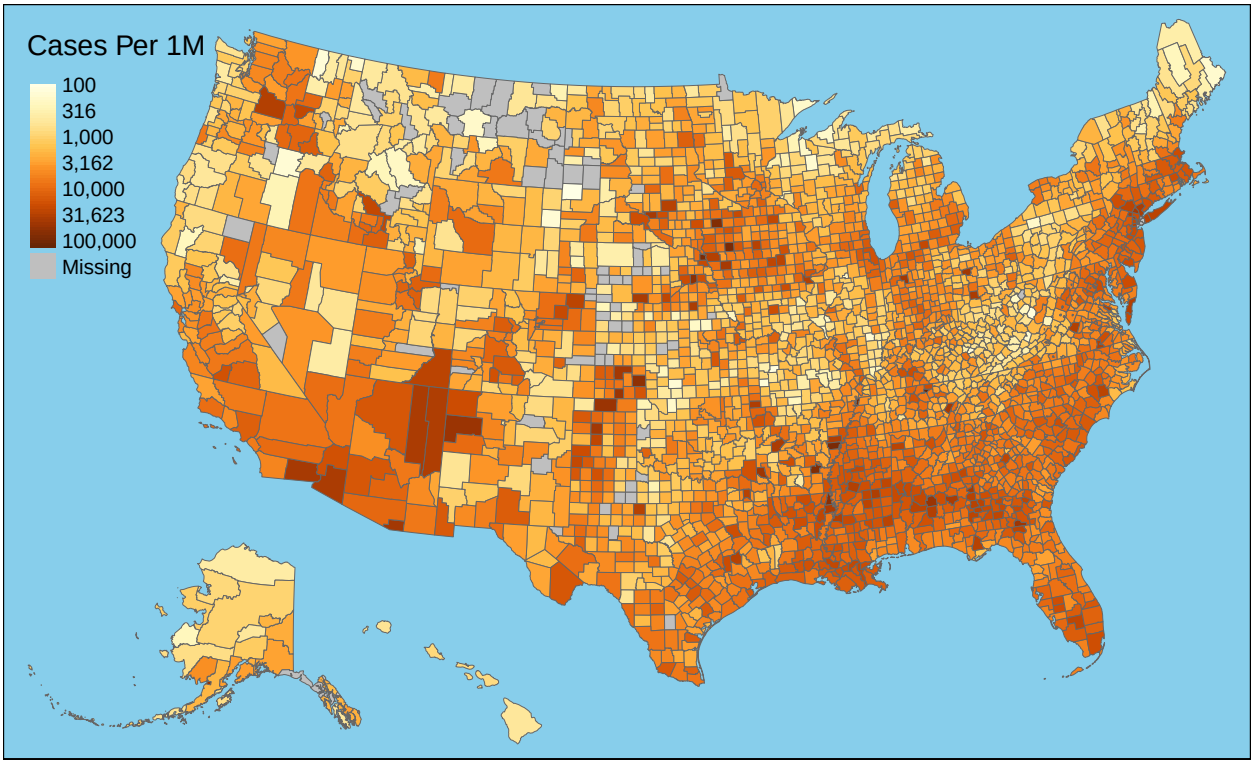
Cases

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



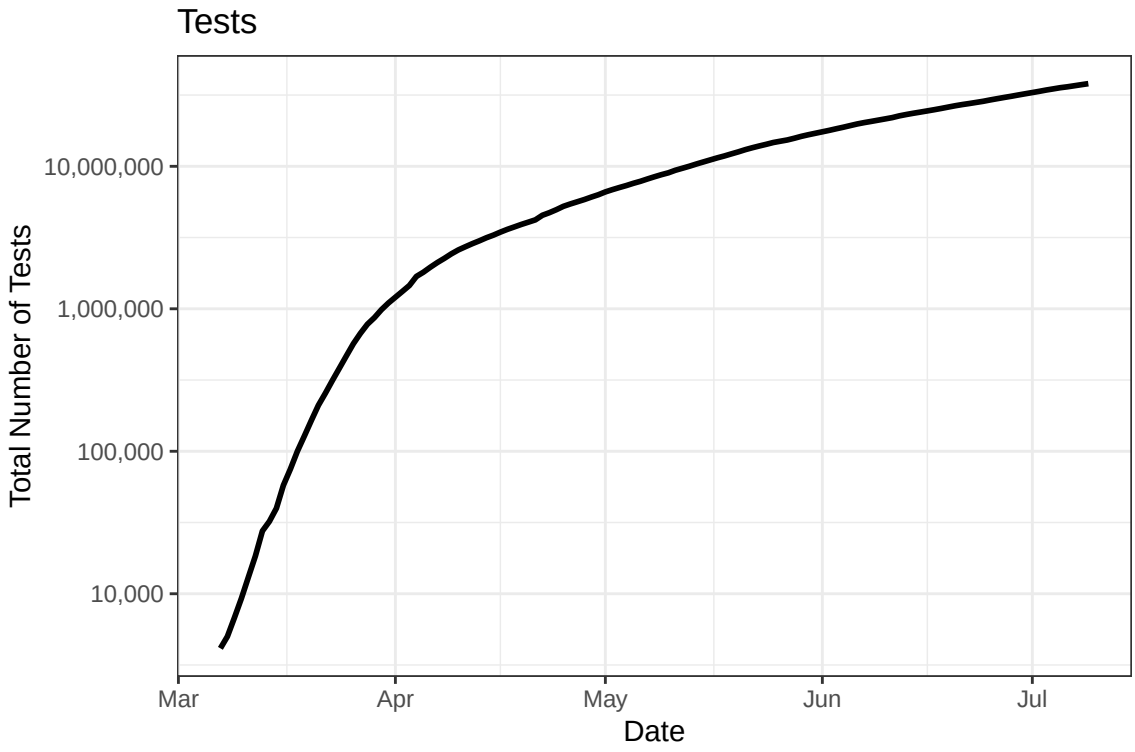


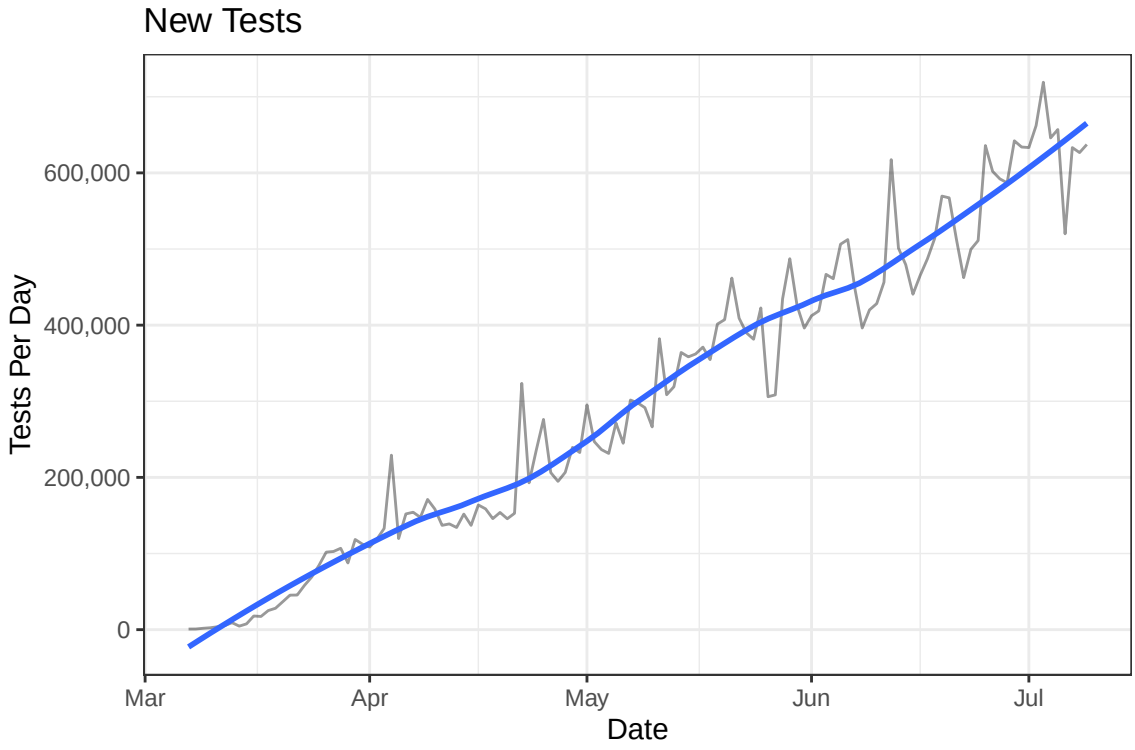

One−Week Change in Daily Cases
15,000
10,000
5,000
0
−5,000
7−Day Change
Apr
May
Jun
Jul
Date

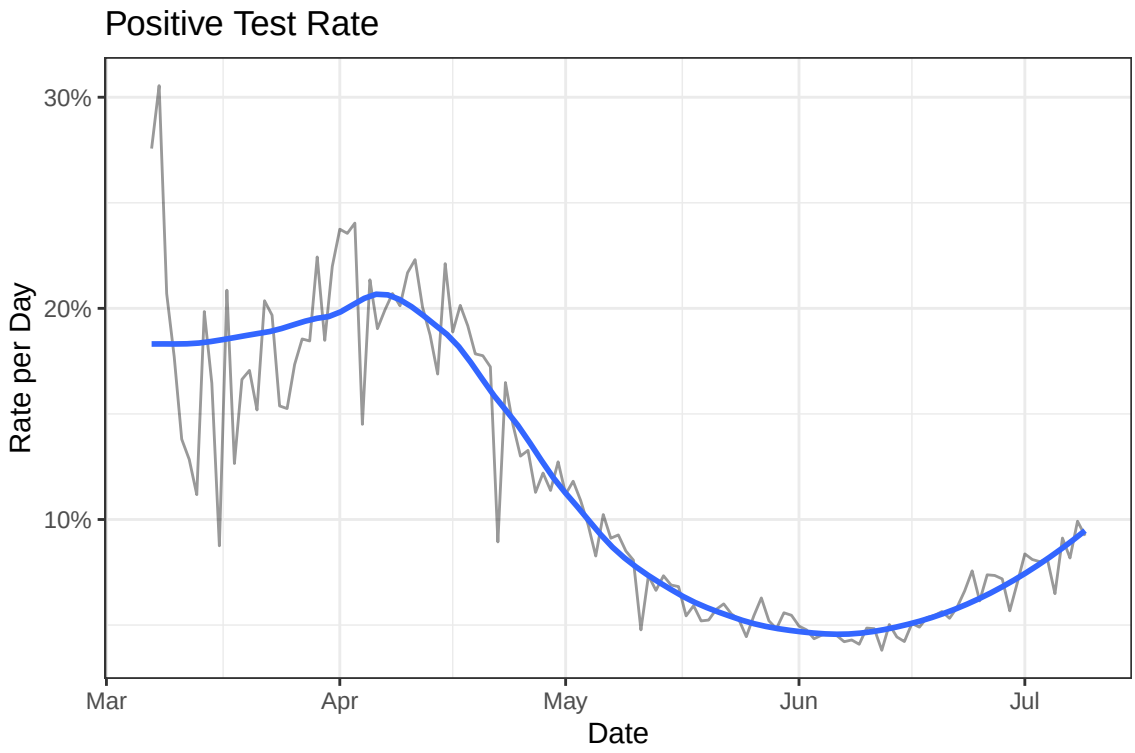

Cases Per 1M
100
316
1,000
3,162
10,000
31,623
100,000
Missing

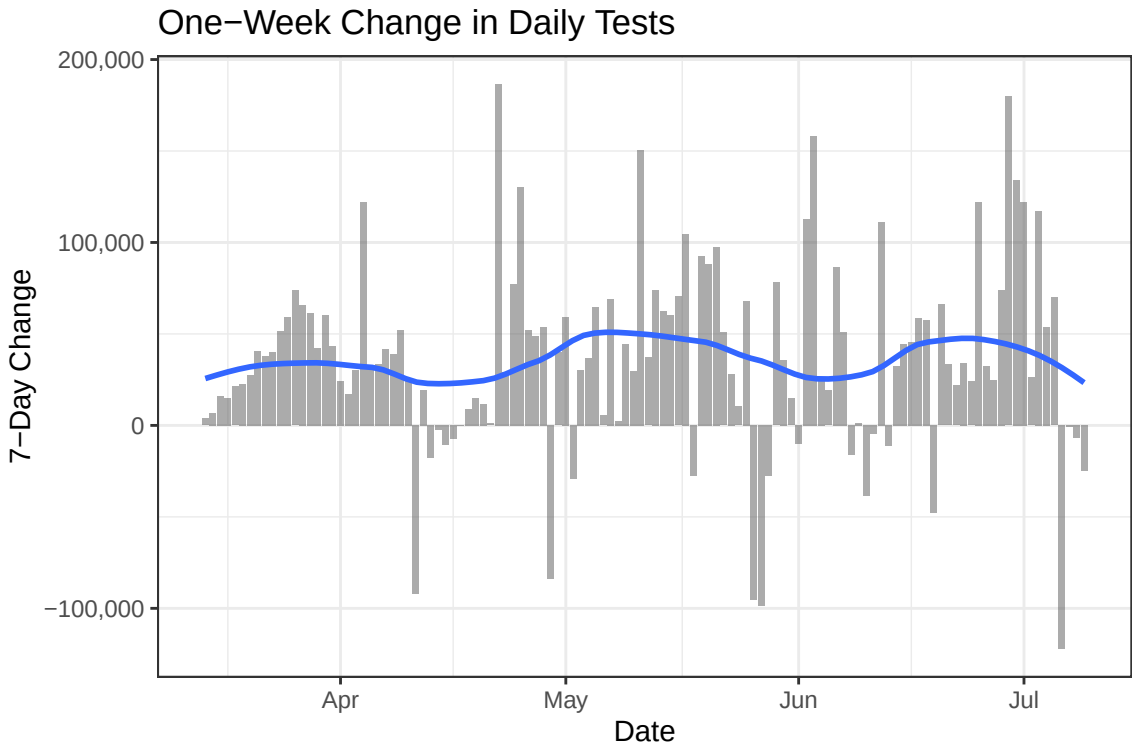
Testing

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.





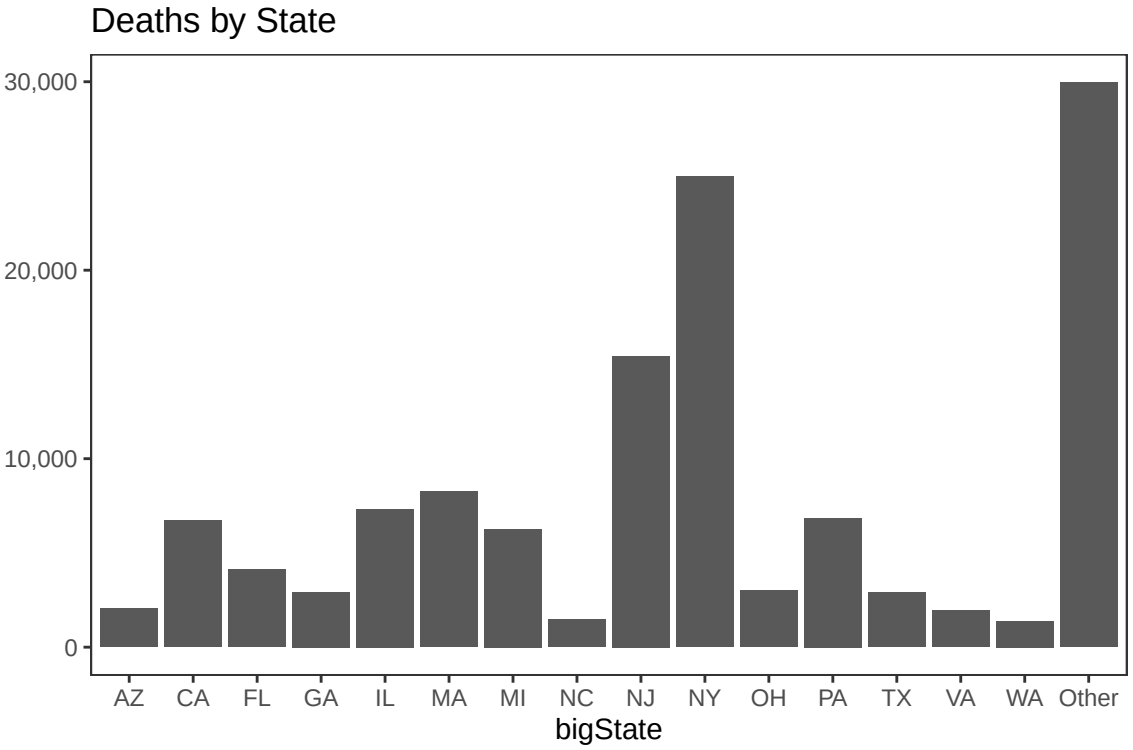

Positive Test Rate
30%
20%
10%
Rate per Day
Mar
Apr
May
Jun
Jul
Date

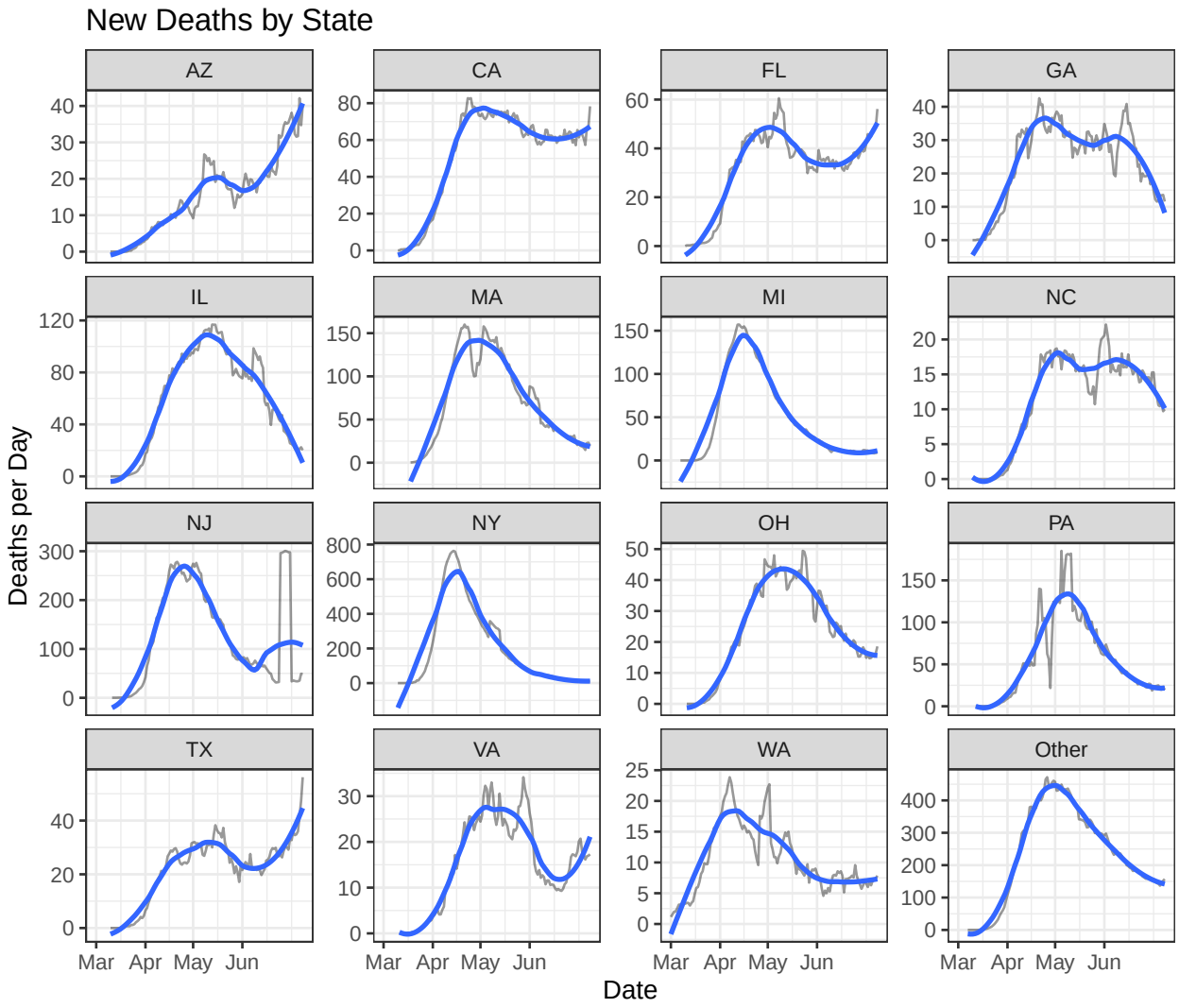

One−Week Change in Daily Tests
200,000
100,000
0
−100,000
7−Day Change
Apr
May
Jun
Jul
Date

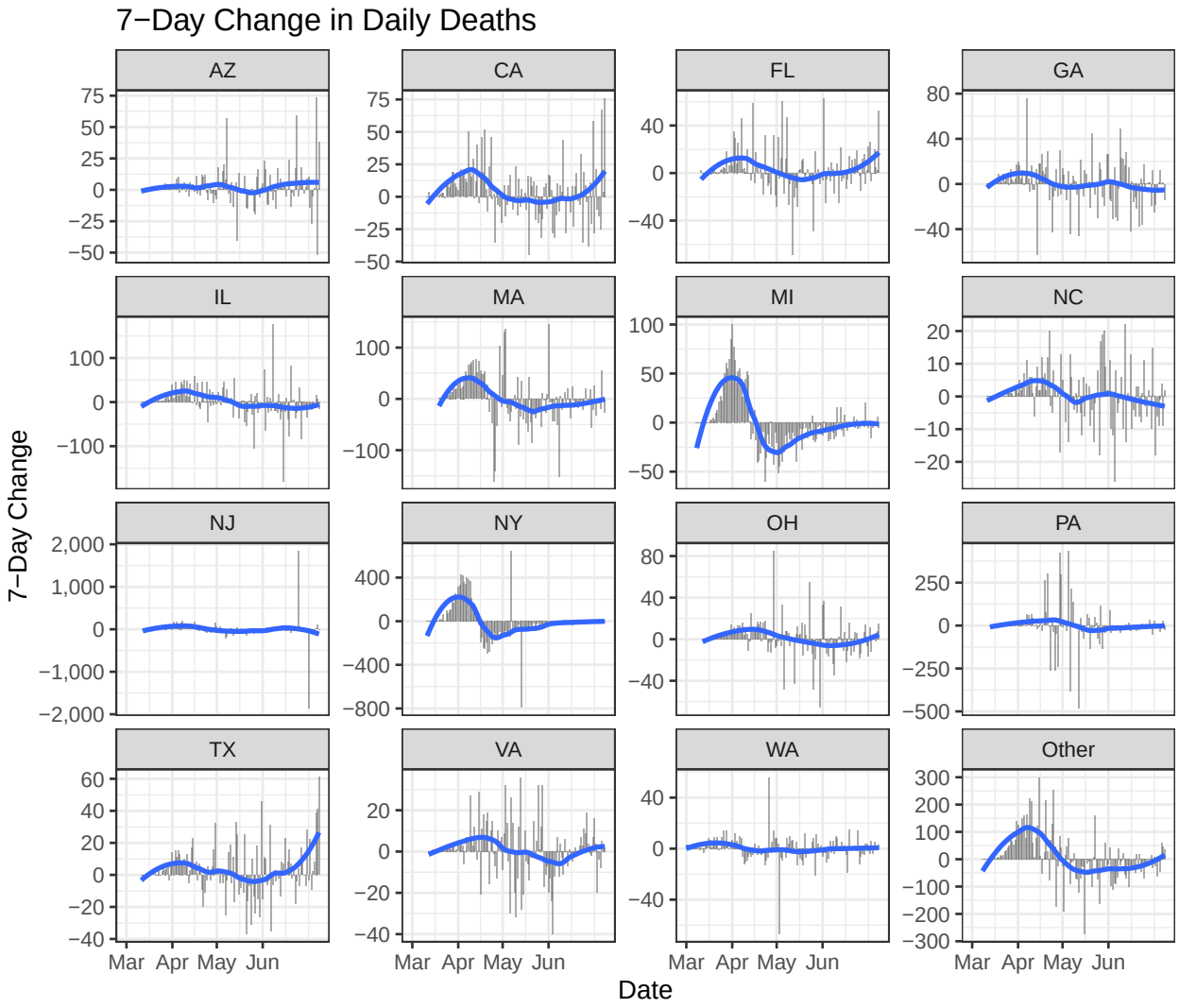
State Data

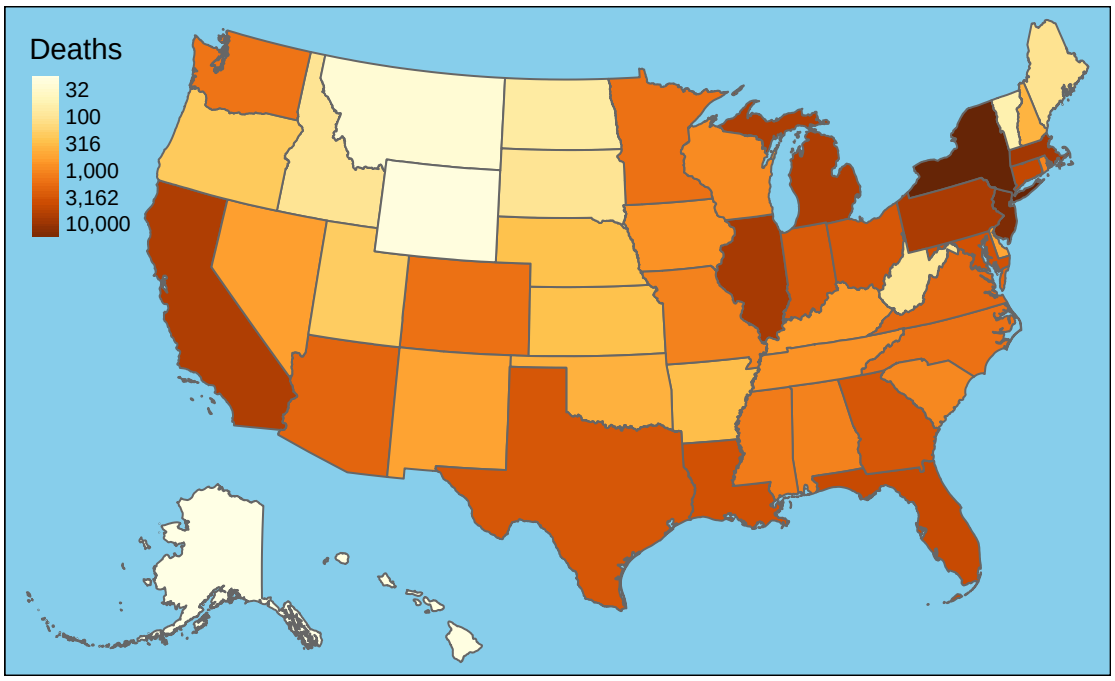
This section summarizes state-level data. Most data are reported for the largest 15 states by population, which account for NaN percent of the total U.S. population.

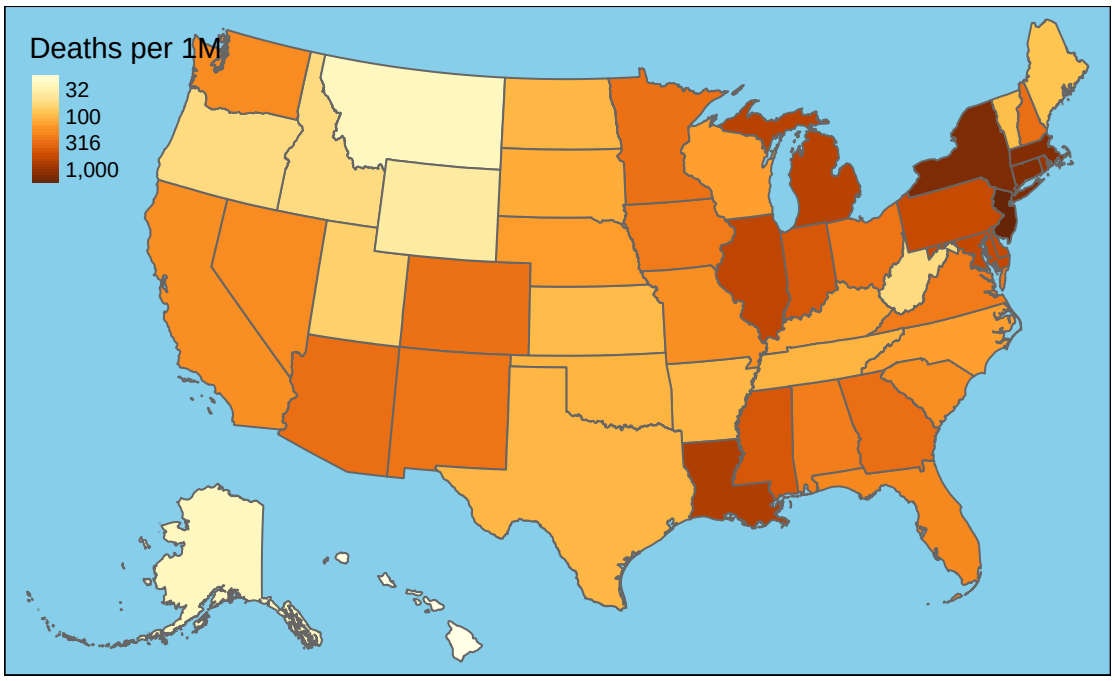
Deaths



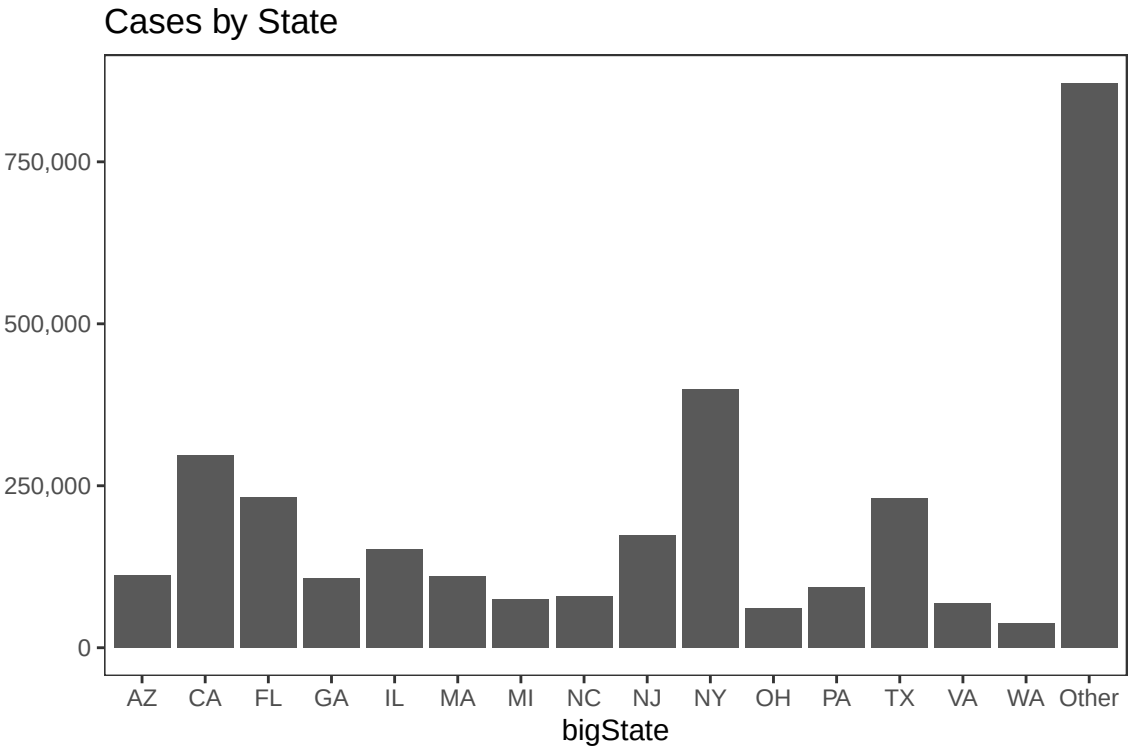

New Deaths by State
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
Deaths per Day
Mar
Apr
May
Jun
Date

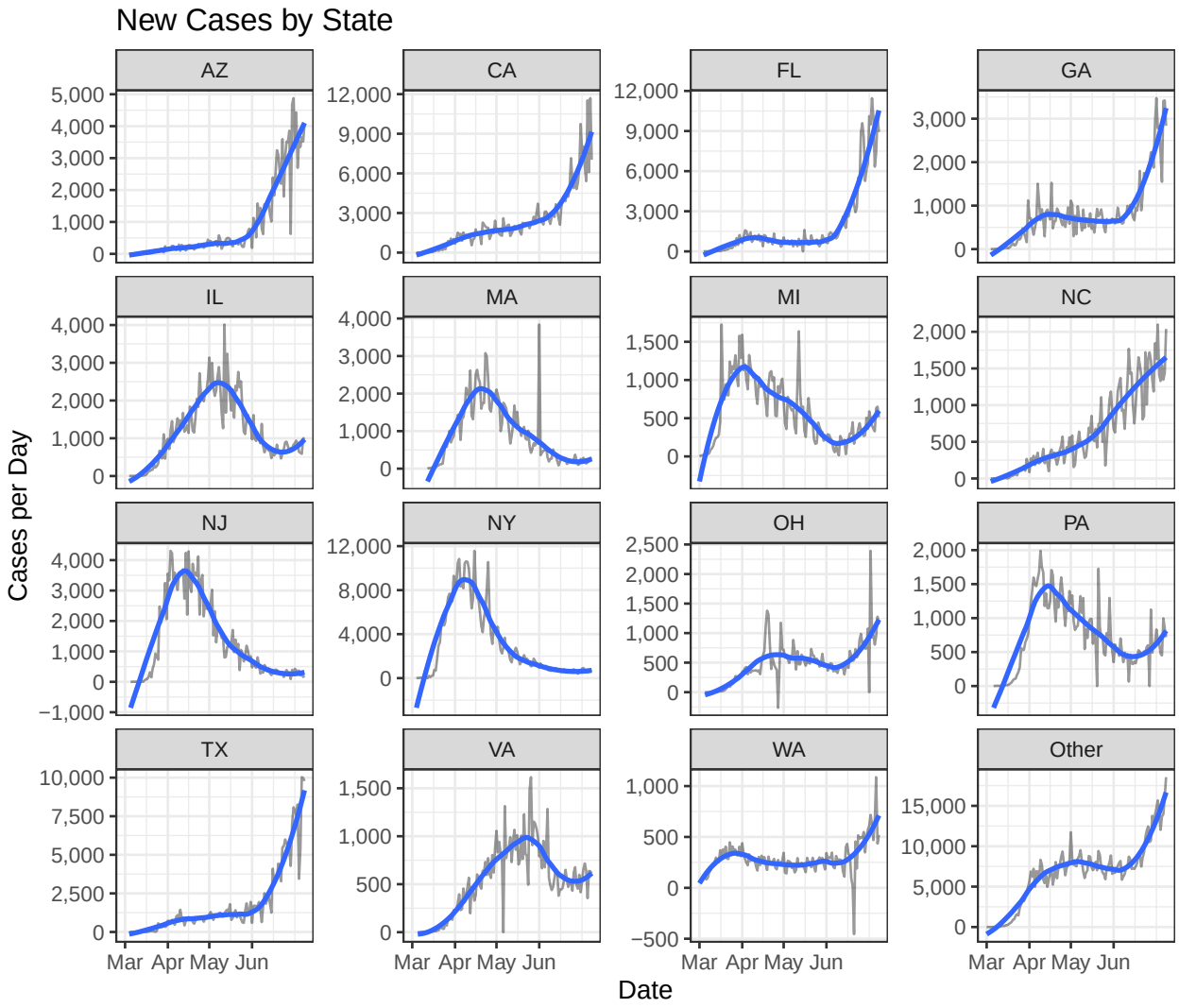

7−Day Change in Daily Deaths
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
7−Day Change
Mar Apr May Jun
Date

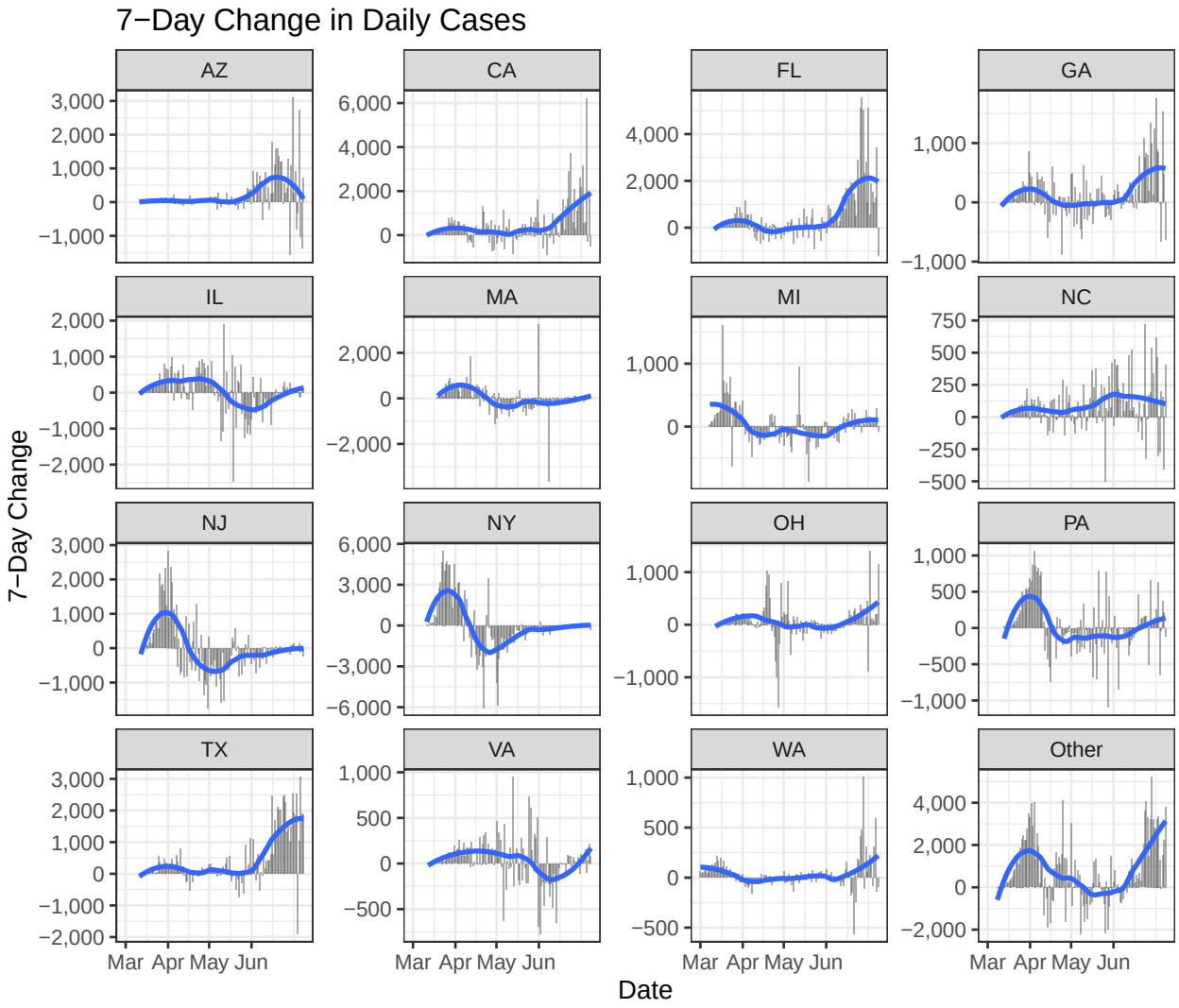

Deaths
32
100
316
1,000
3,162
10,000

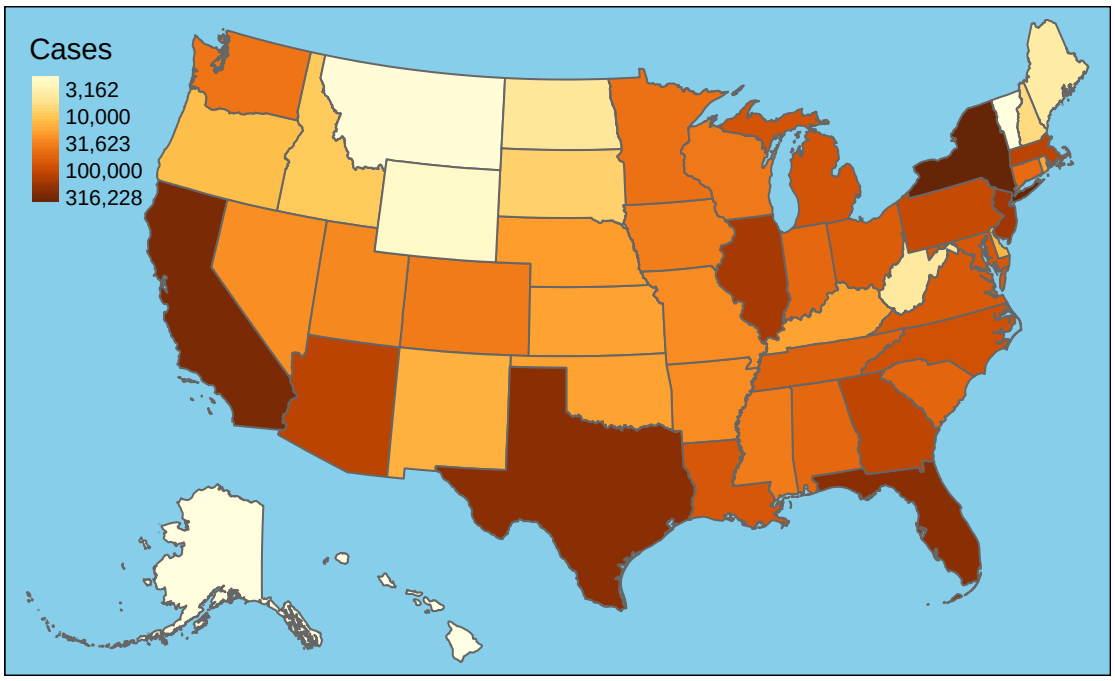

Deaths per 1M
32
100
316
1,000

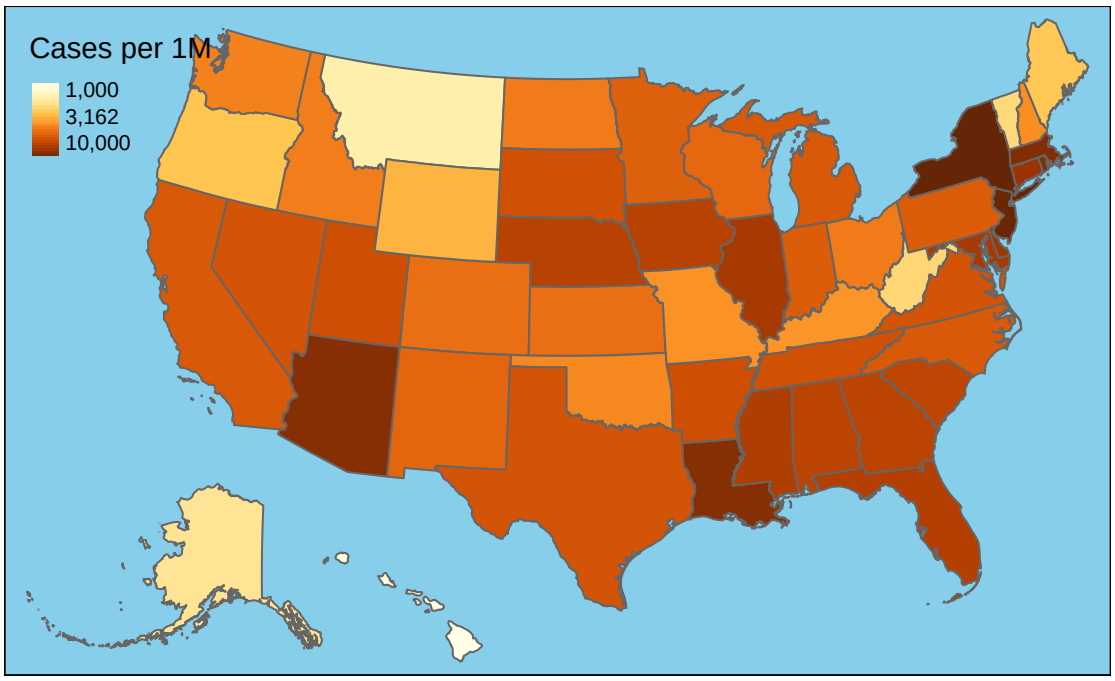
Cases


Cases by State
750,000
500,000
250,000
0
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
bigState

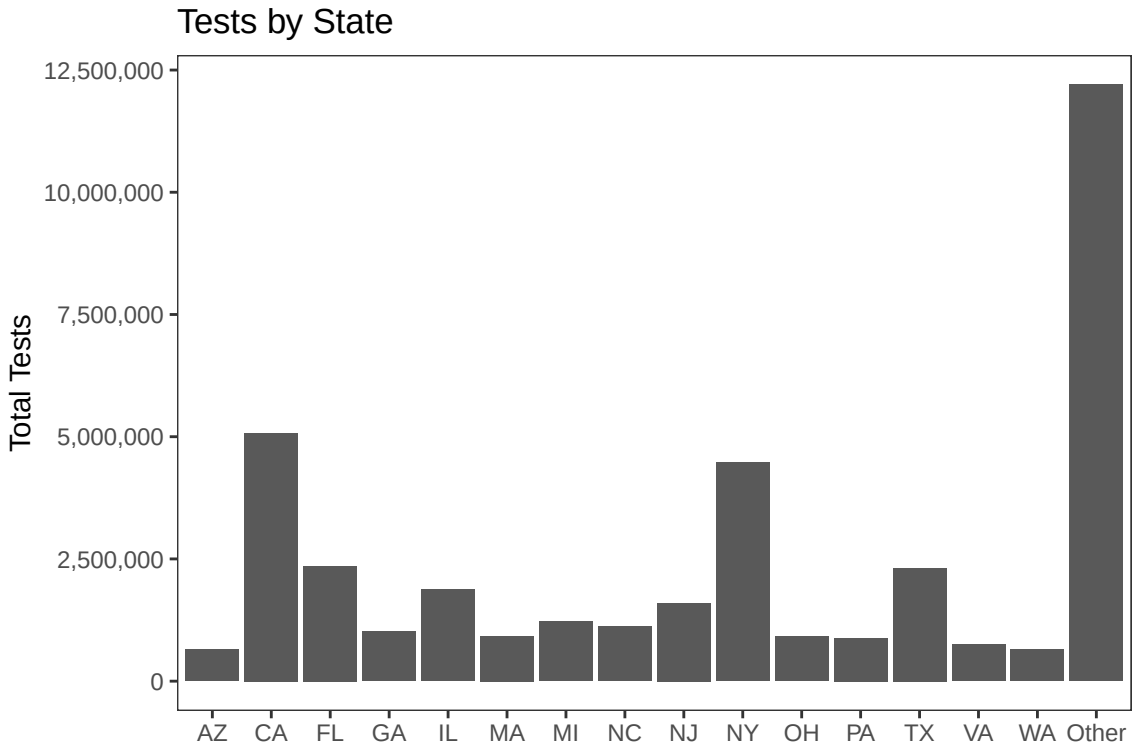

New Cases by State
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
Cases per Day
Mar Apr May Jun
Date

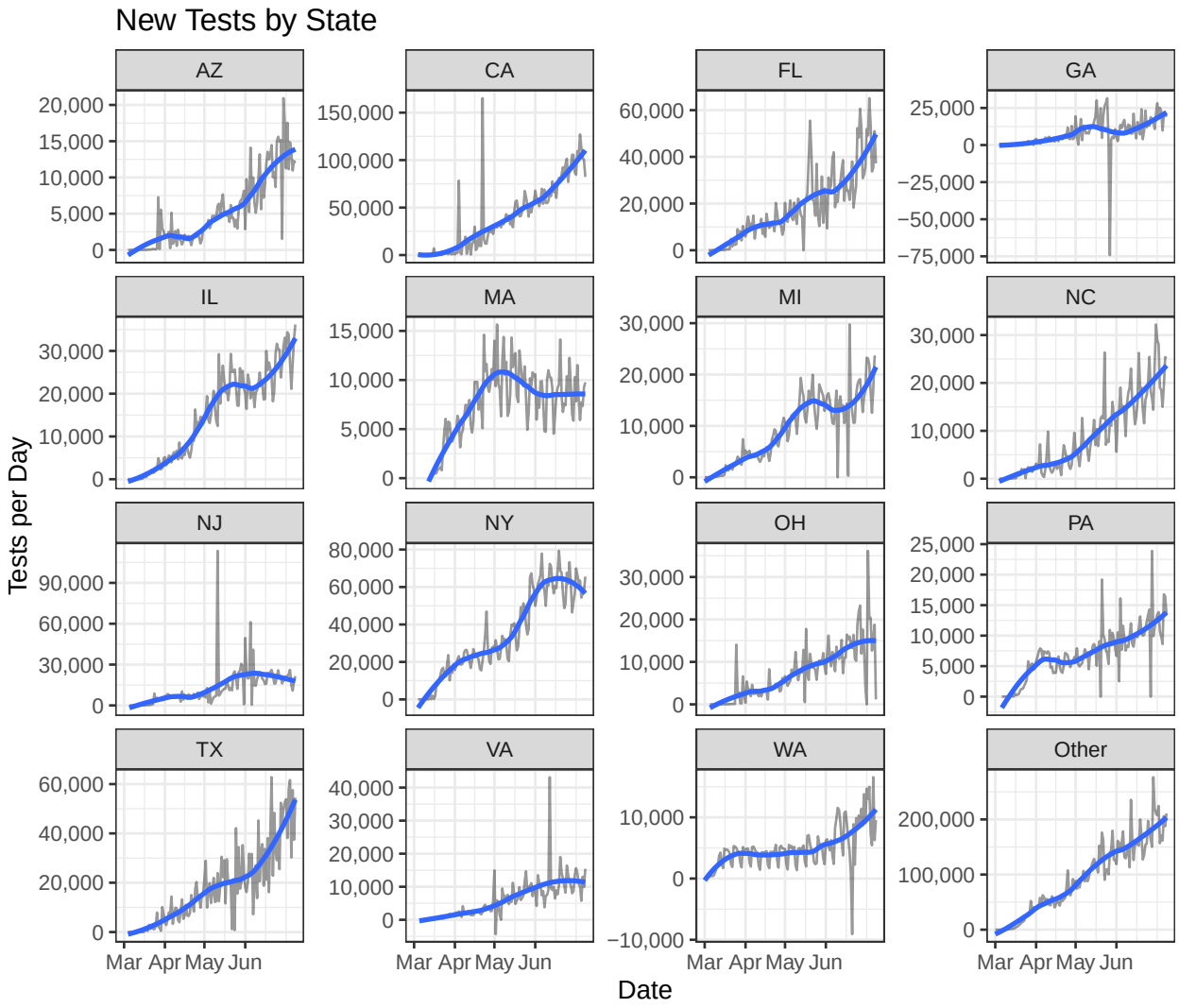

7−Day Change in Daily Cases
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
7−Day Change
Mar Apr May Jun
Date

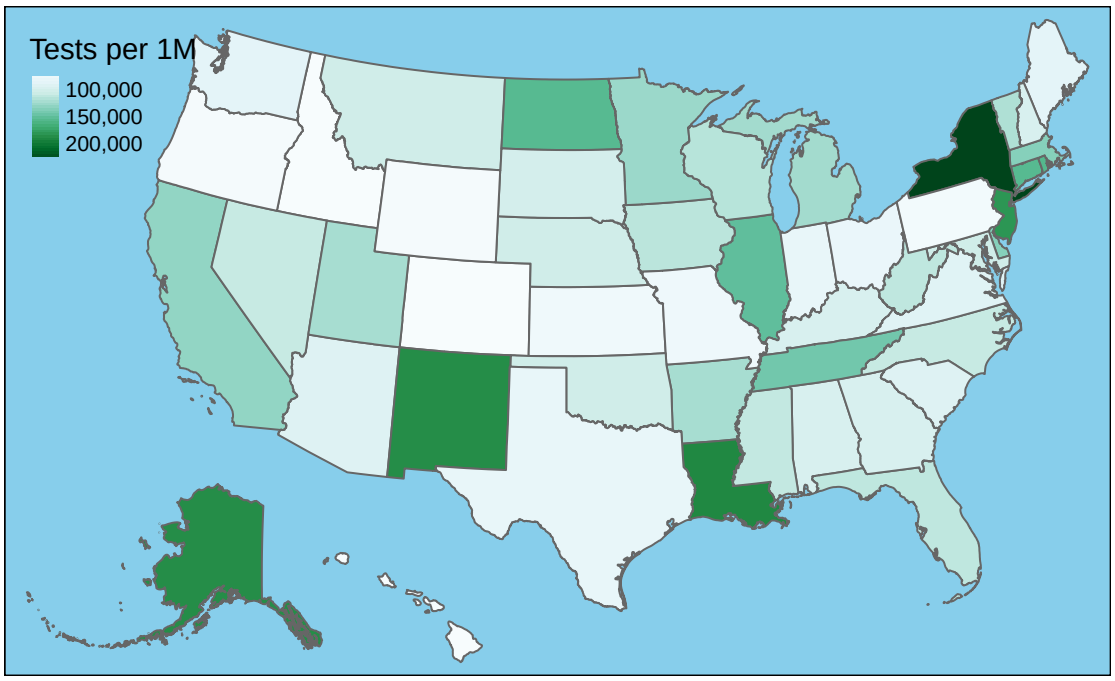

Cases
3,162
10,000
31,623
100,000
316,228

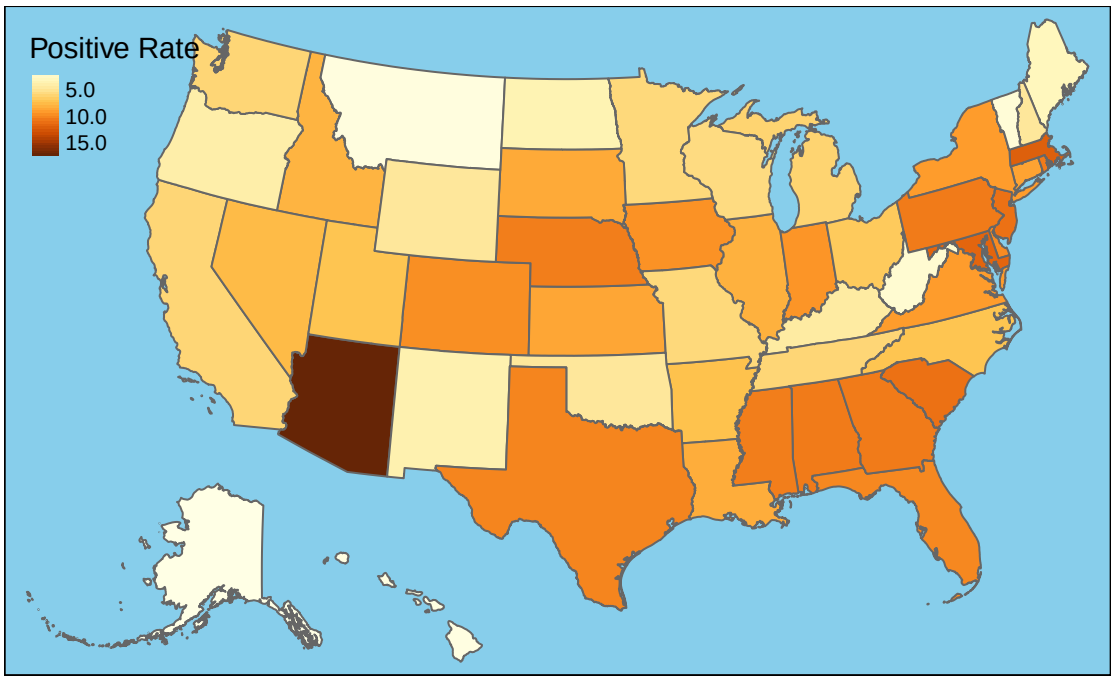

Cases per 1M
1,000
3,162
10,000

Testing

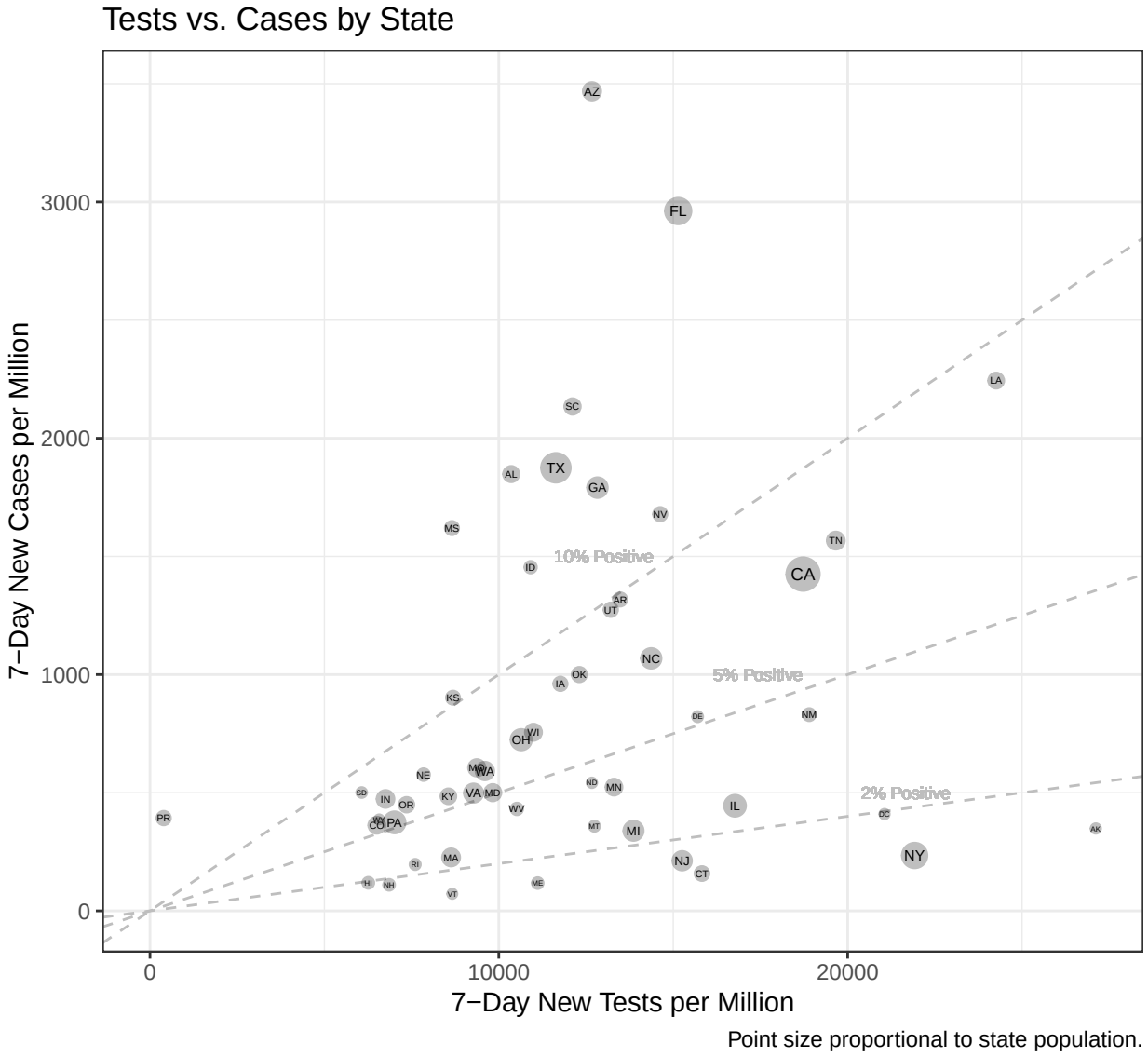

Tests by State
Total Tests
12,500,000
10,000,000
7,500,000
5,000,000
2,500,000
0
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other


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
100,000
150,000
200,000


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.



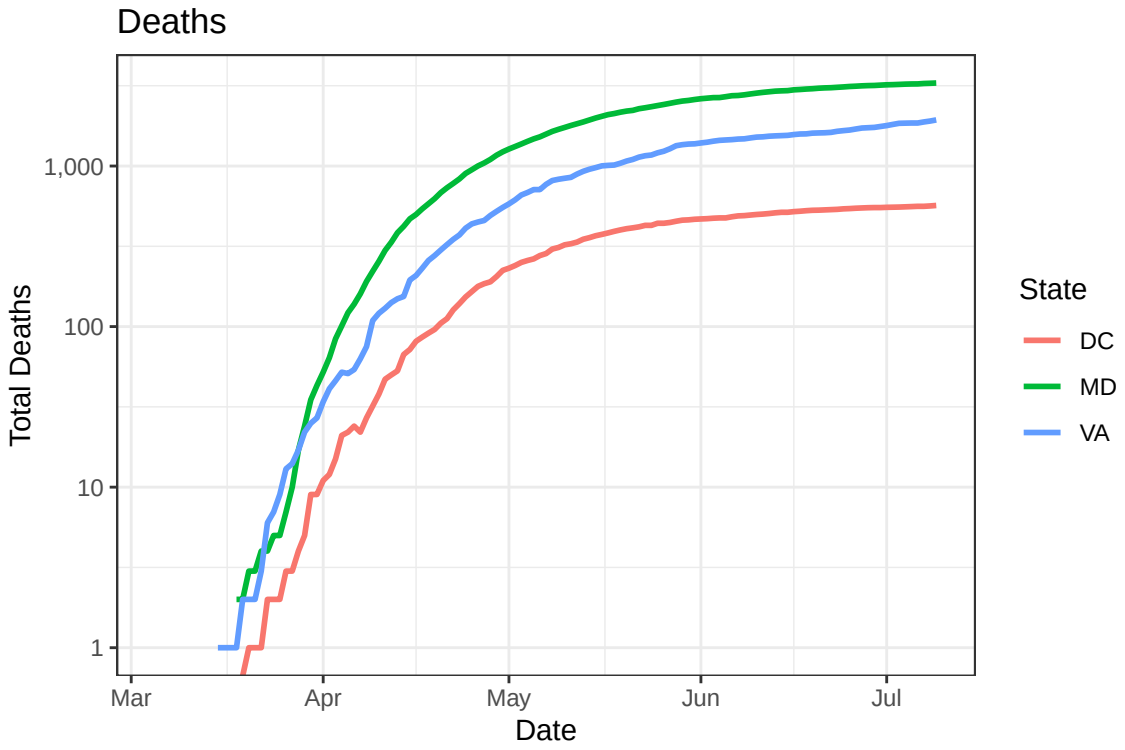
Local Data

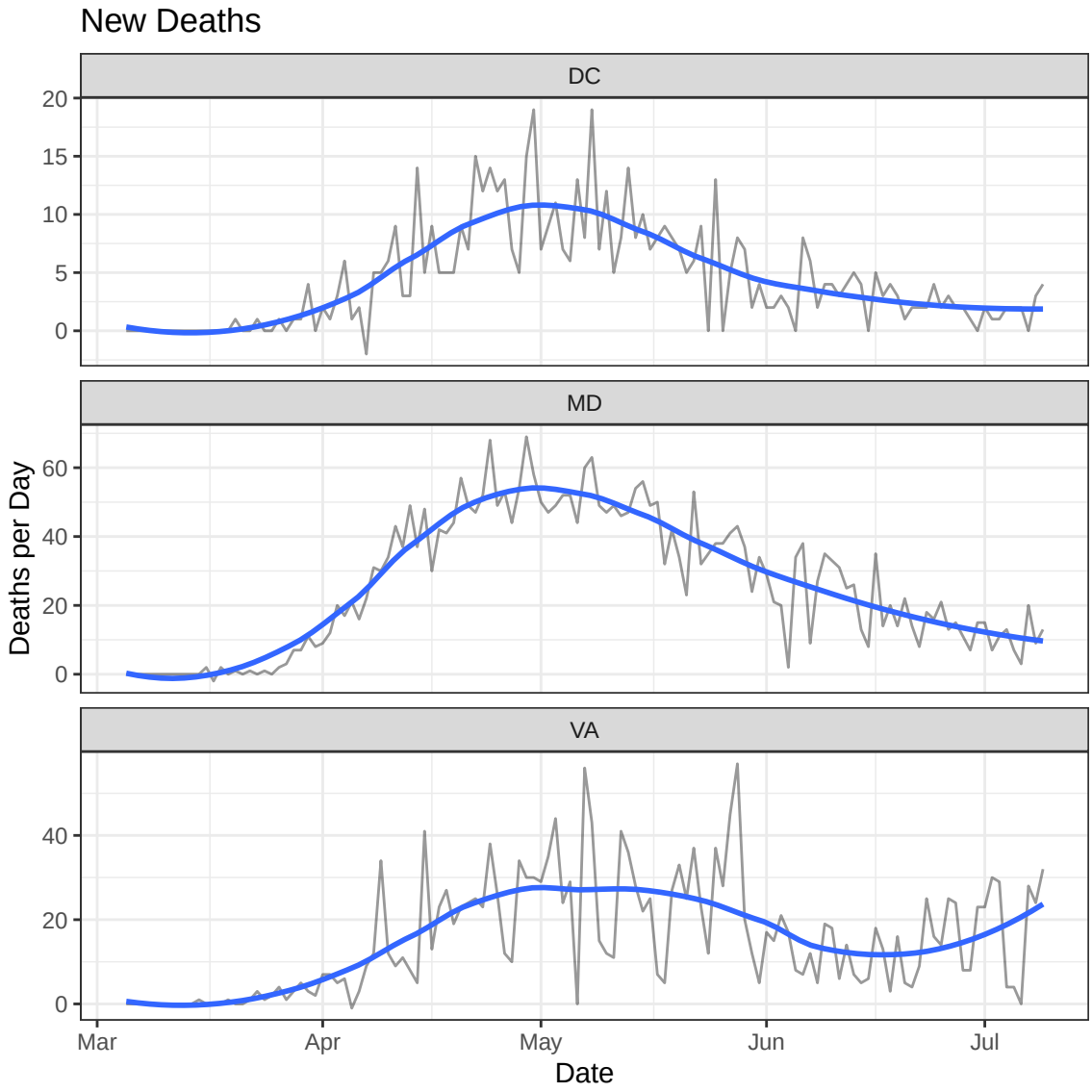
The following charts and tables present mortality, case, and testing data for the Washington DC metropolitan area and adjacent states.

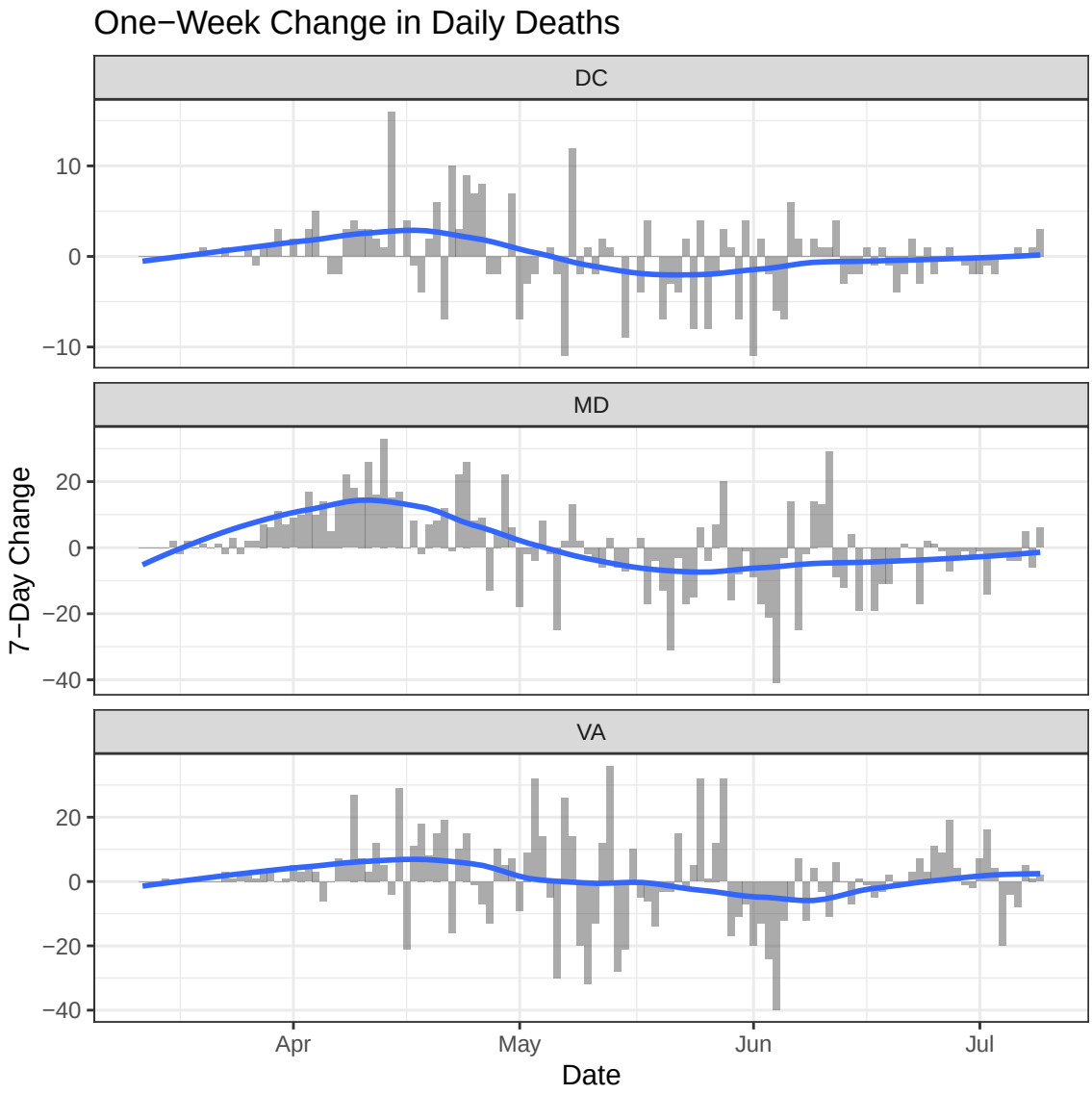
Table 3: Latest Local Data

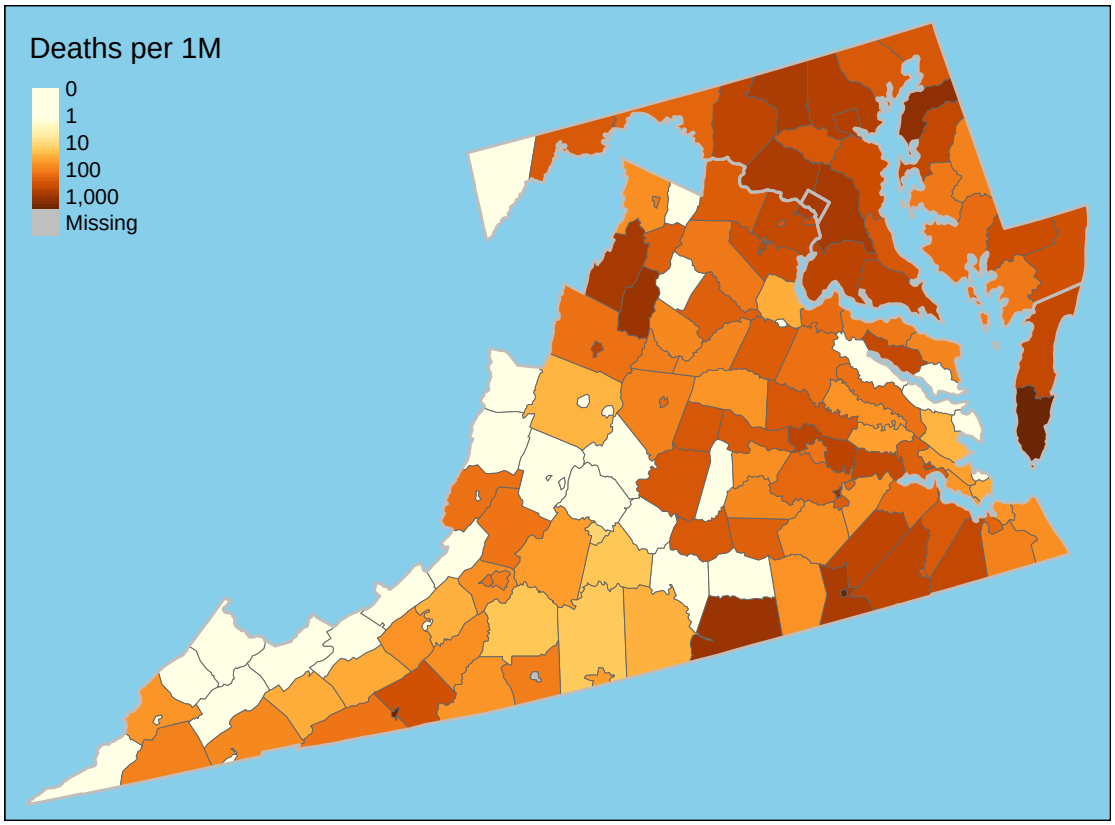
State	Cases	Deaths	New Cases	New Deaths
DC	10,679	568	37	4
MD	71,447	3,288	586	13
VA	67,988	1,937	613	32

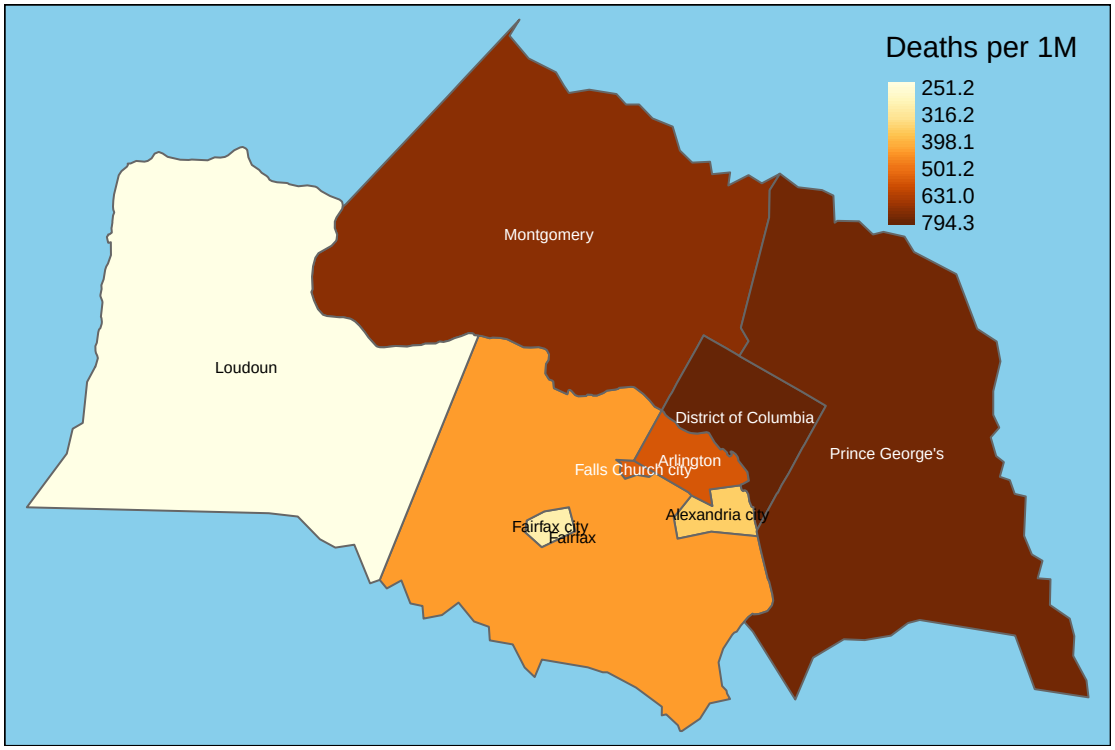
Deaths


Deaths
Total Deaths
1,000
100
10
1
Mar
Apr
May
Jun
Jul
Date
State
DC
MD
VA

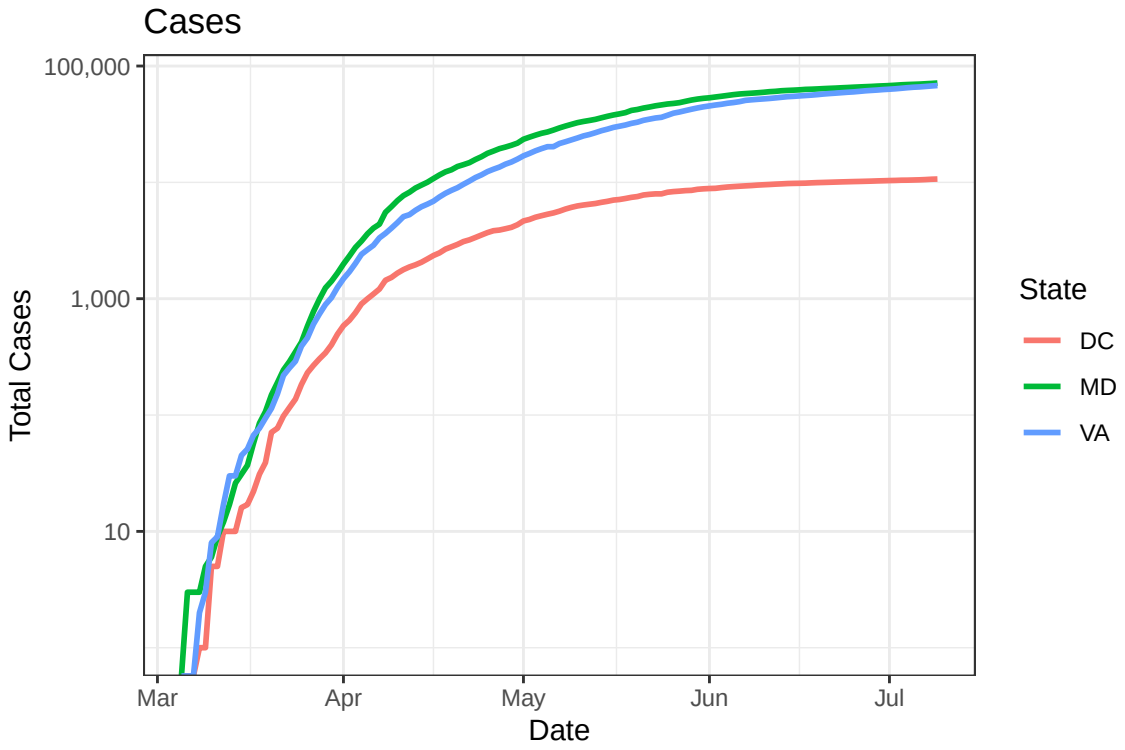

New Deaths
DC
MD
VA
Deaths per Day
Date
Mar
Apr
May
Jun
Jul

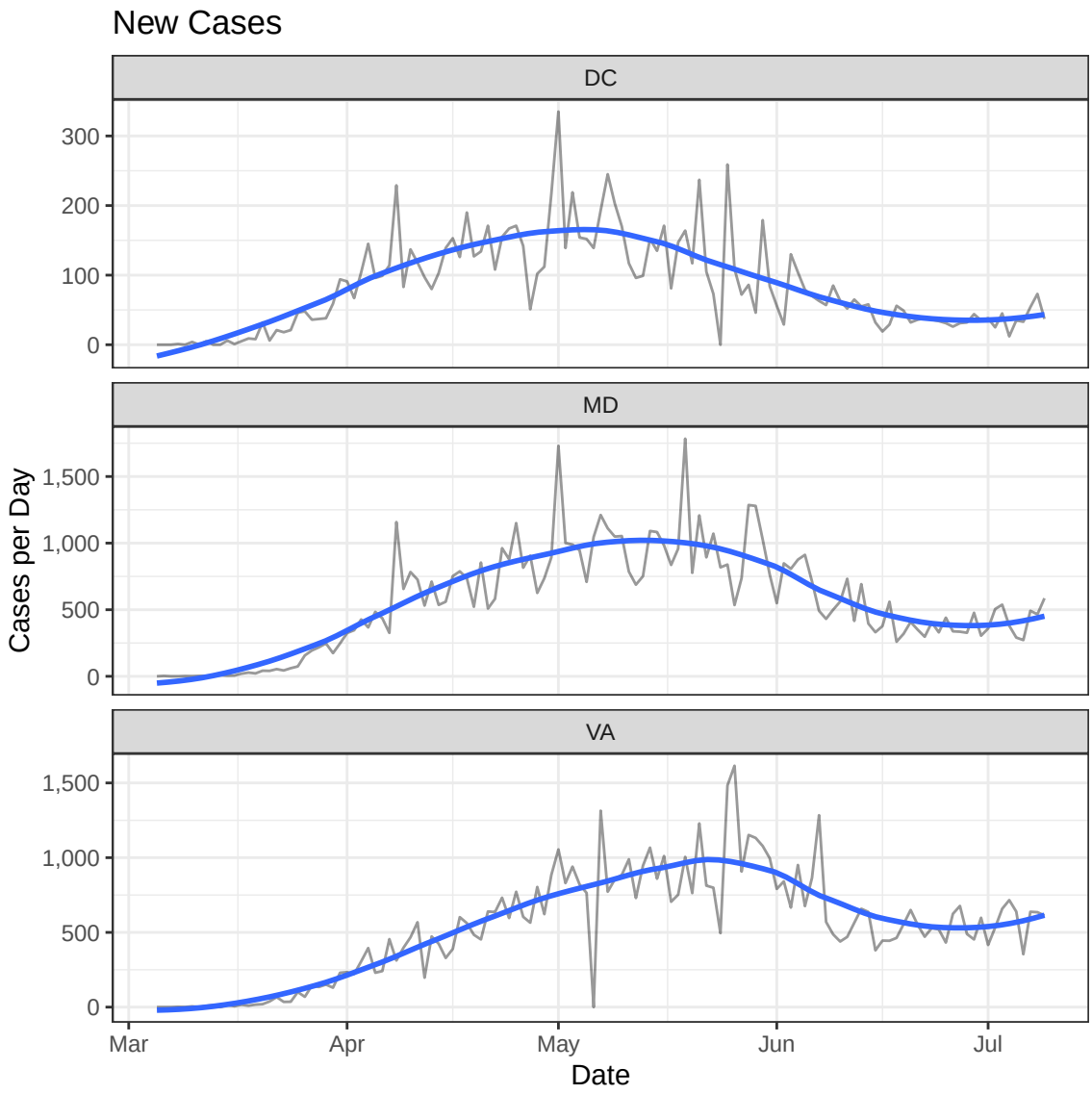

One−Week Change in Daily Deaths
DC
MD
VA
10
0
−10
20
0
−20
−40
7−Day Change
Apr
May
Jun
Jul
Date

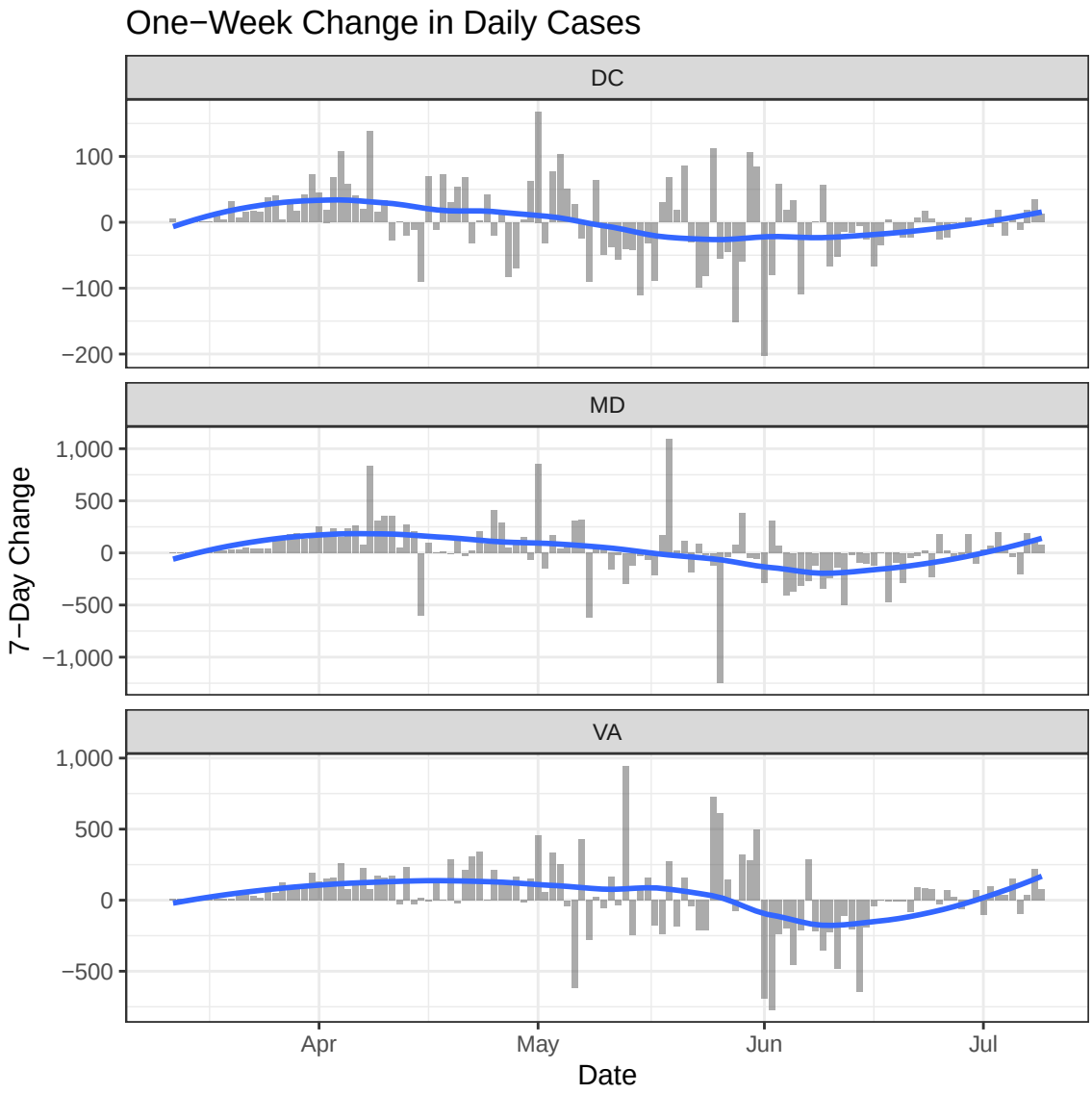

Deaths per 1M
0
1
10
100
1,000
Missing

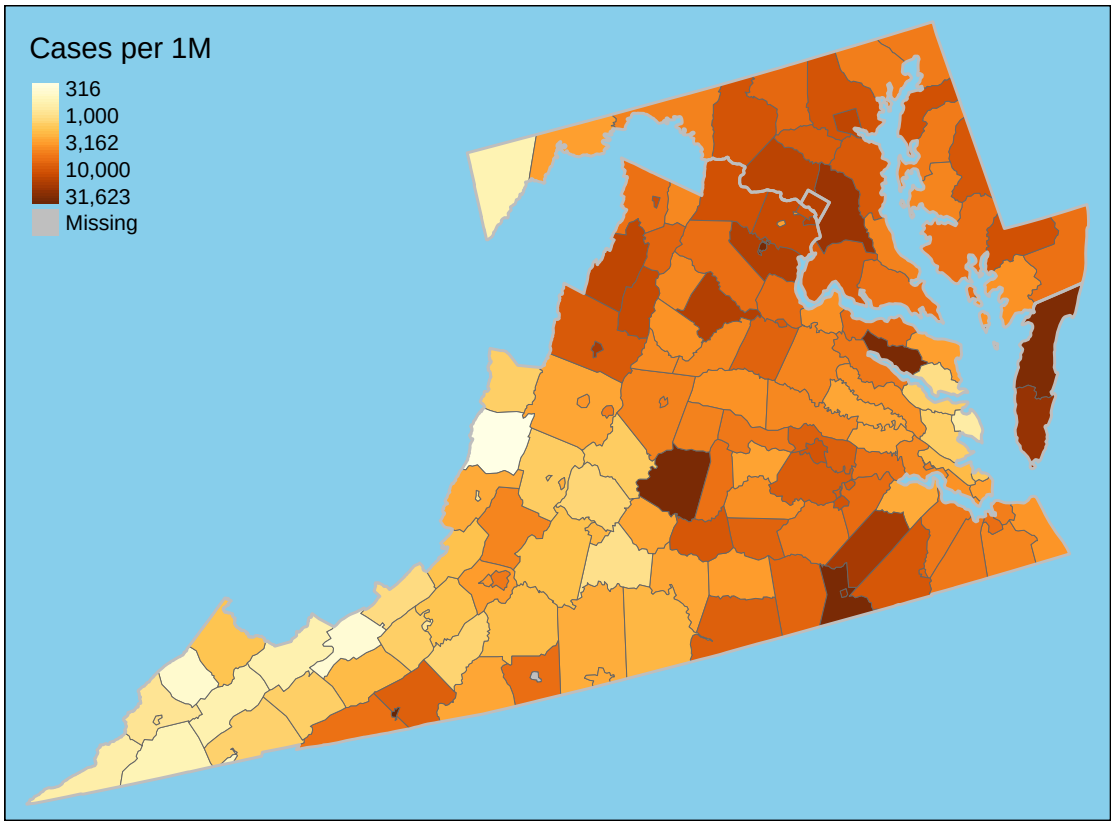

Deaths per 1M
251.2
316.2
398.1
501.2
631.0
794.3
Montgomery
Loudoun
District of Columbia
Prince George's
Arlington
Falls Church city
Alexandria city
Fairfax city
Fairfax

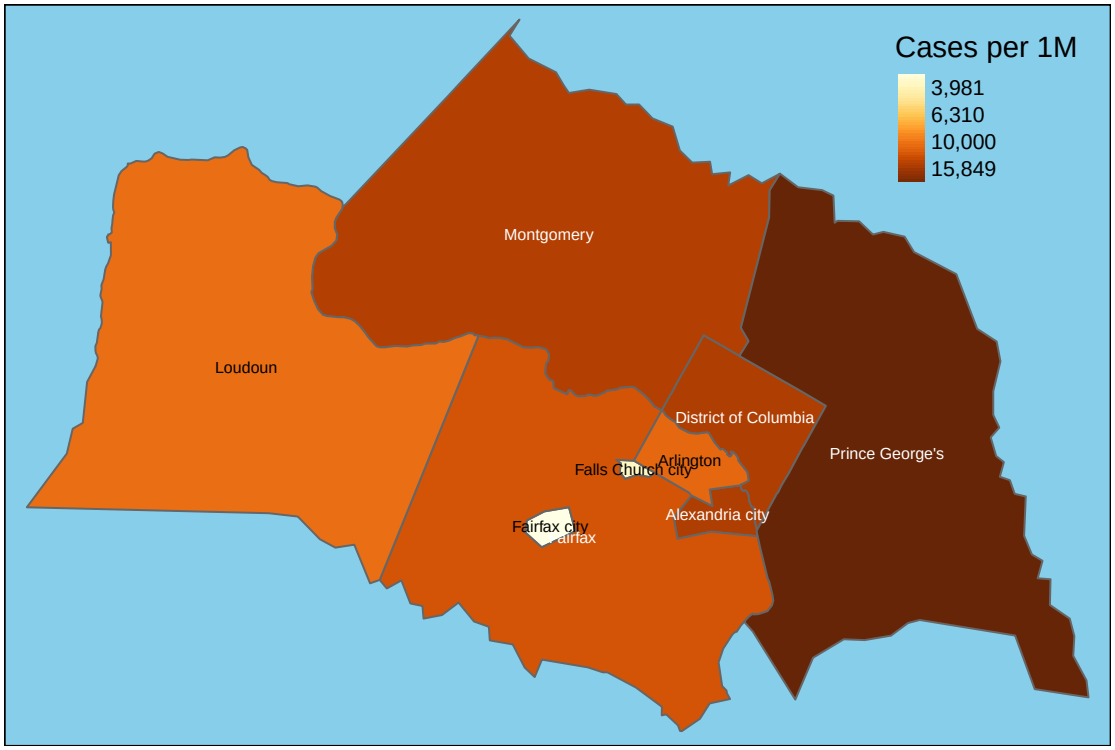
Cases


Cases
100,000
1,000
10
Total Cases
Mar
Apr
May
Jun
Jul
Date
State
DC
MD
VA

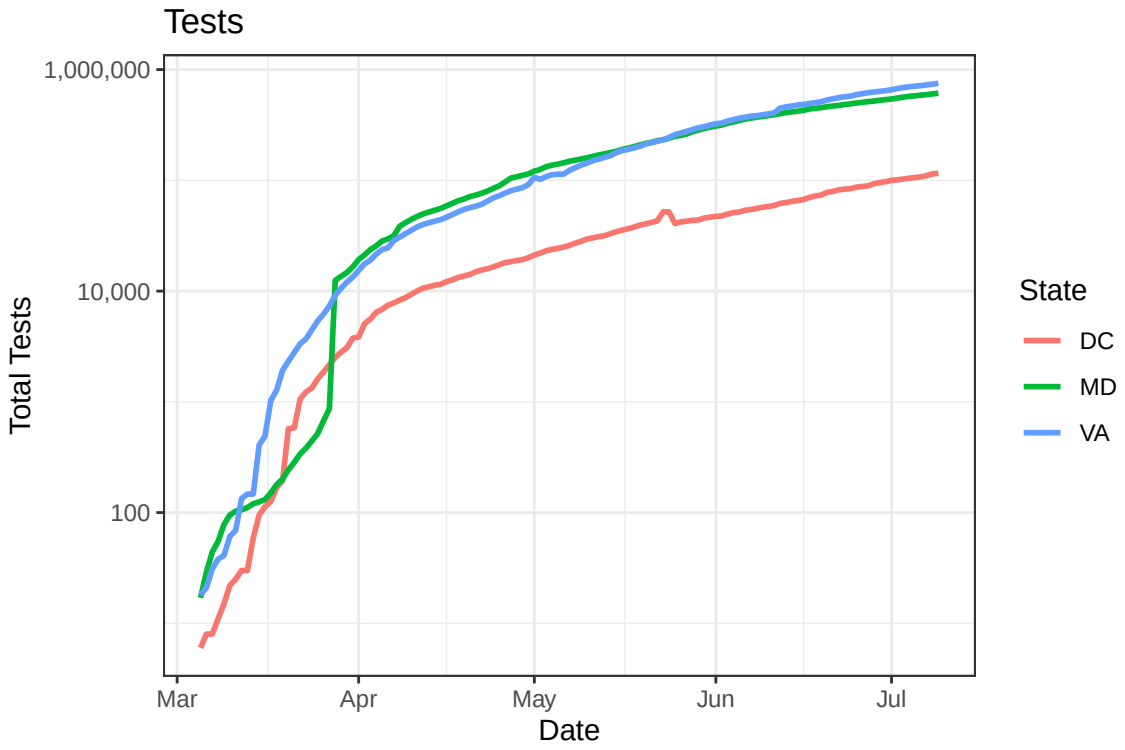

New Cases
DC
MD
VA
300
200
100
0
1,500
1,000
500
0
Cases per Day
Mar
Apr
May
Jun
Jul
Date

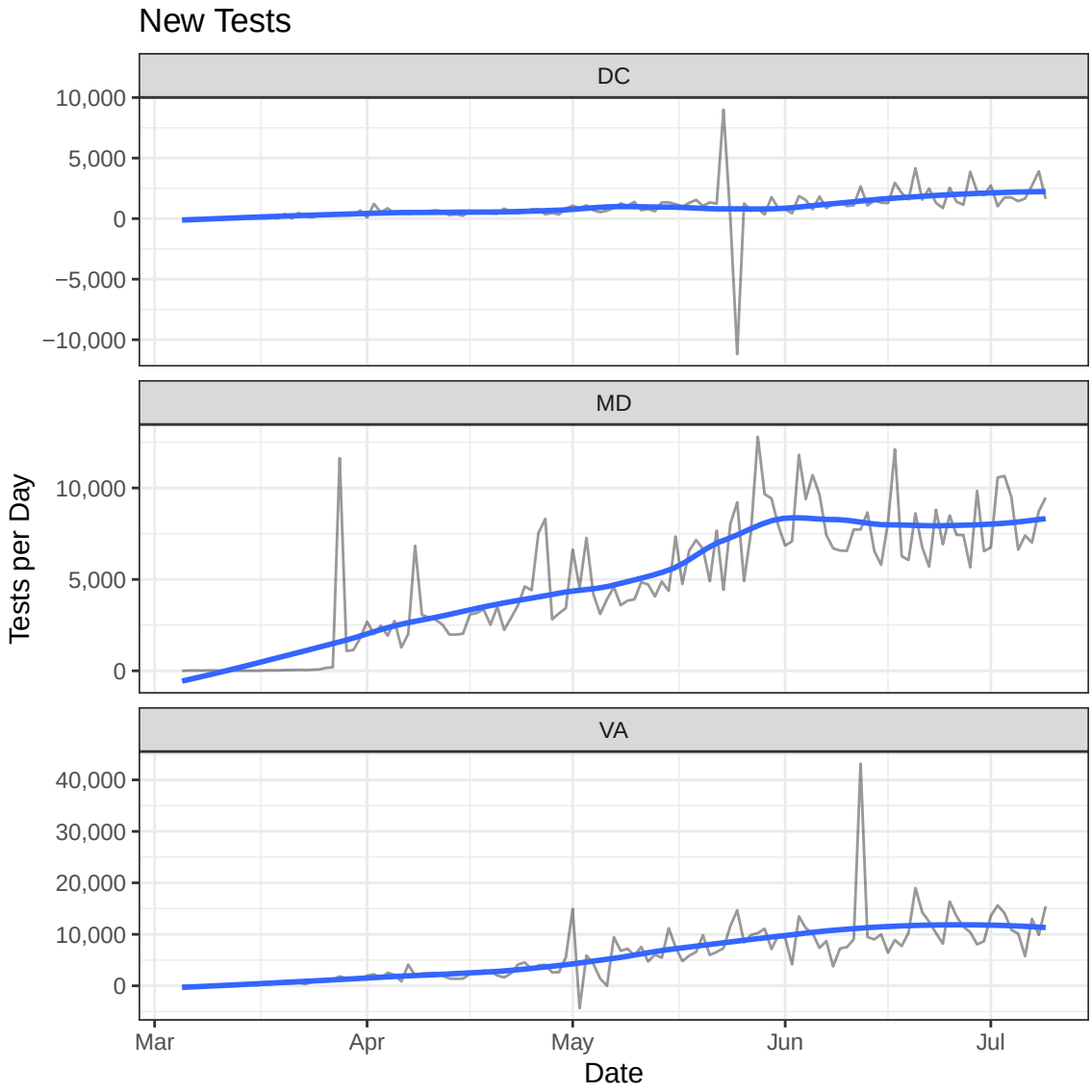

One−Week Change in Daily Cases
DC
MD
VA
7−Day Change
100
0
−100
−200
1,000
500
0
−500
−1,000
Apr
May
Jun
Jul
Date

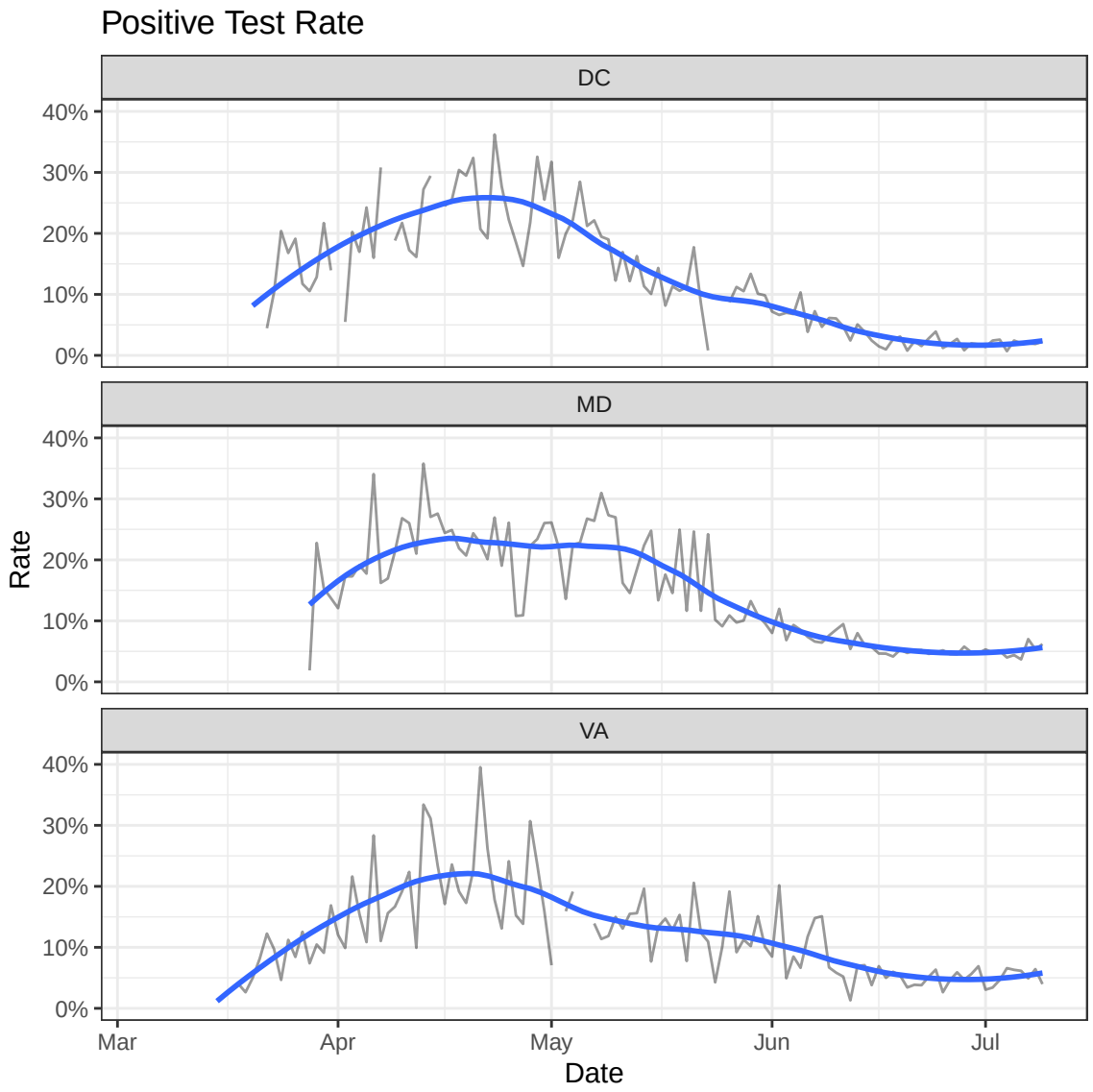

Cases per 1M
316
1,000
3,162
10,000
31,623
Missing


Cases per 1M
3,981
6,310
10,000
15,849
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
Mar
Apr
May
Jun
Jul
Date
State
DC
MD
VA


New Tests
DC
MD
VA
10,000
5,000
0
−5,000
−10,000
10,000
5,000
0
40,000
30,000
20,000
10,000
0
Tests per Day
Mar
Apr
May
Jun
Jul
Date


Positive Test Rate
DC
MD
VA
40%
30%
20%
10%
0%
Rate
Mar
Apr
May
Jun
Jul
Date