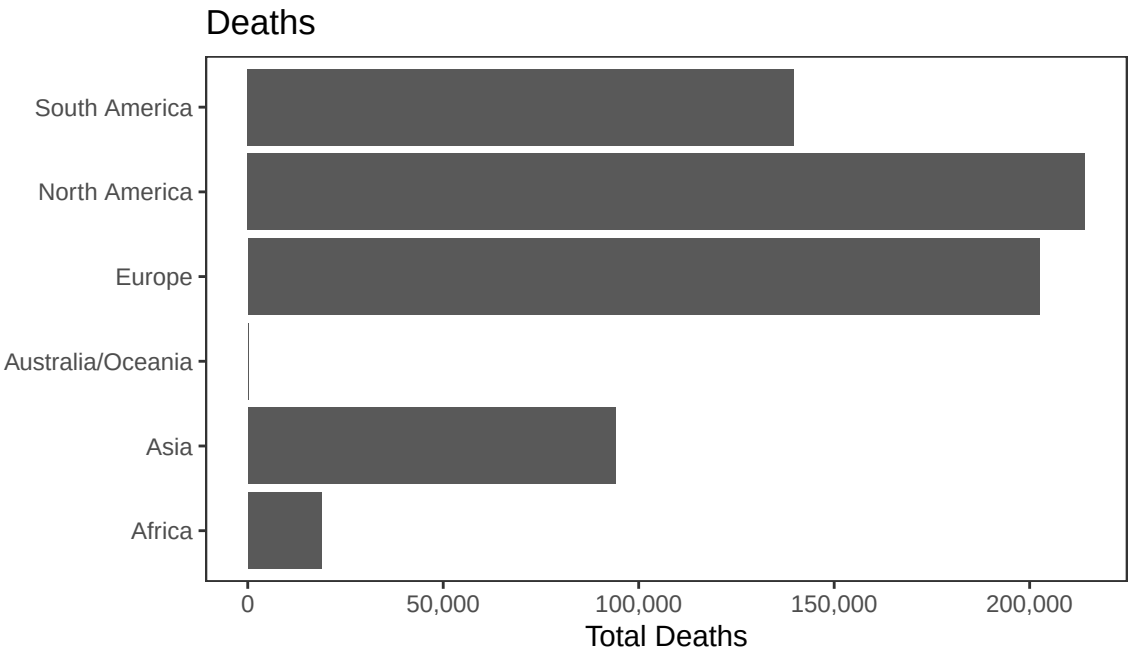
Erik's Covid-19 Chart Pack

Data updated 2020-07-30 18:48:28. 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 17,177,778 confirmed Covid-19 cases and 669,566 deaths worldwide.



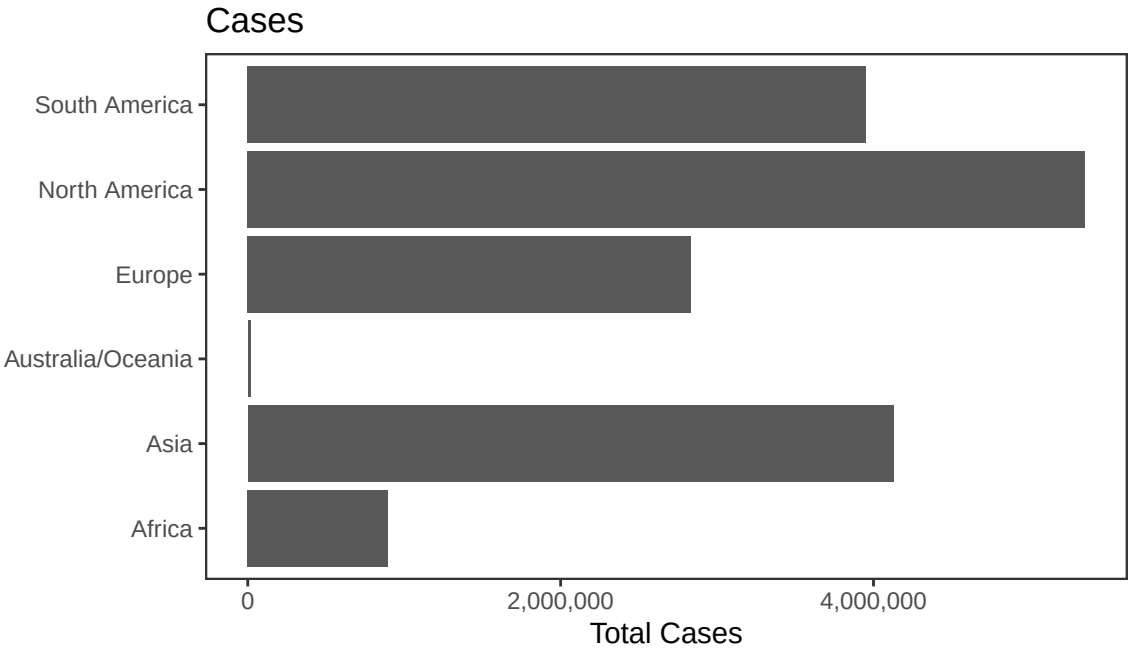
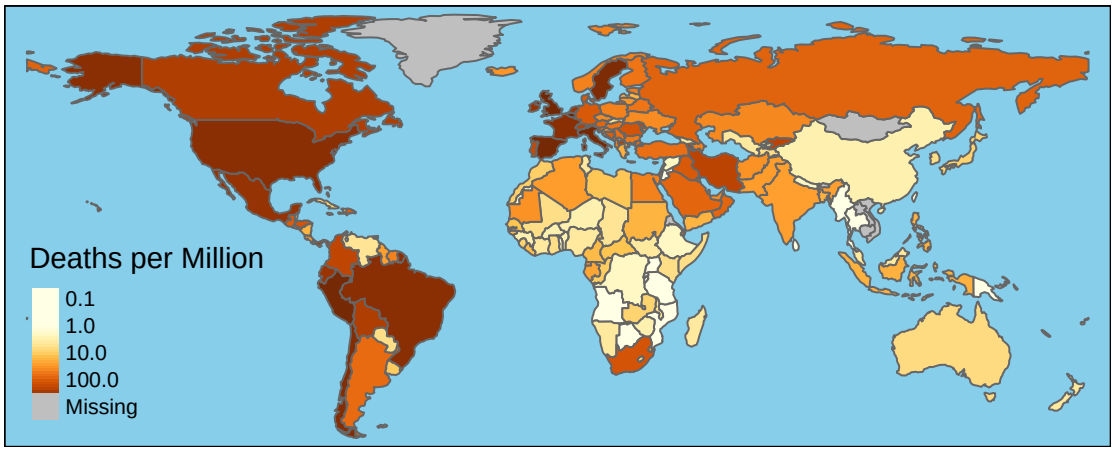
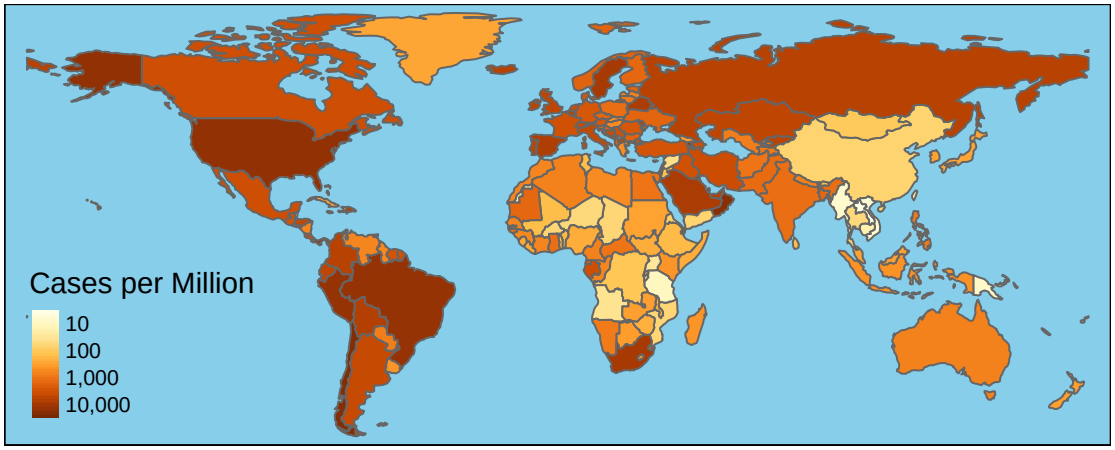
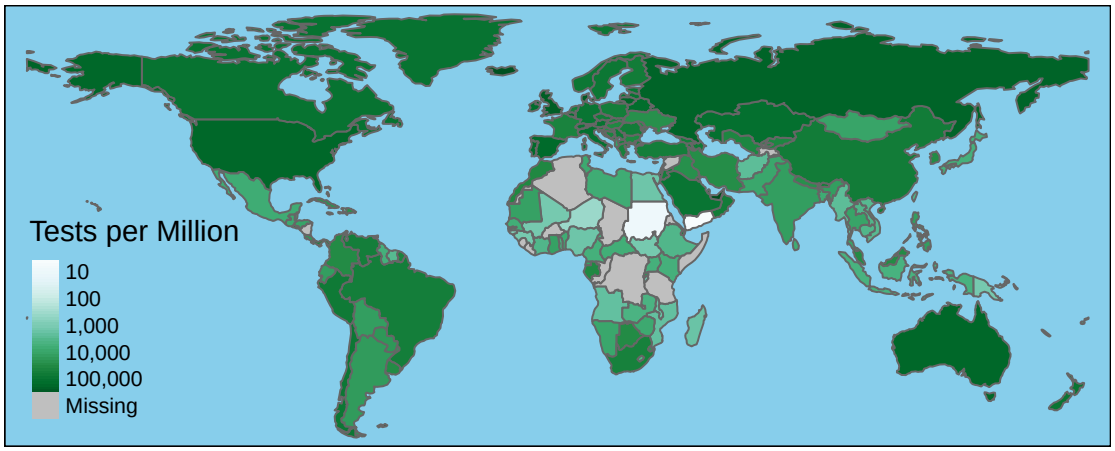


Table 1: Top Countries by Total Cases

Country	Cases	Deaths	New Cases	New Deaths
USA	4,568,037	153,840	66,921	1,485
Brazil	2,555,518	90,188	70,869	1,554
India	1,584,384	35,003	52,249	779
Russia	828,990	13,673	5,475	169
South Africa	471,123	7,497	11,362	240
Mexico	402,697	44,876	7,208	854
Peru	400,683	18,816	5,678	204
Chile	351,575	9,278	1,775	38
Spain	329,721	28,441	2,031	5
UK	301,455	45,961	763	83
Iran	298,909	16,343	2,636	196
Pakistan	276,288	5,892	1,063	27
Colombia	276,055	9,454	8,670	380
Saudi Arabia	272,590	2,816	1,759	27
Italy	246,776	35,129	289	6
Bangladesh	232,194	3,035	3,009	35
Turkey	228,924	5,659	942	14
Germany	208,811	9,212	860	5
France	185,196	30,238	1,392	15
Argentina	178,996	3,288	5,641	109


Deaths per Million
0.1
1.0
10.0
100.0
Missing


Cases per Million
10
100
1,000
10,000


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

National Data

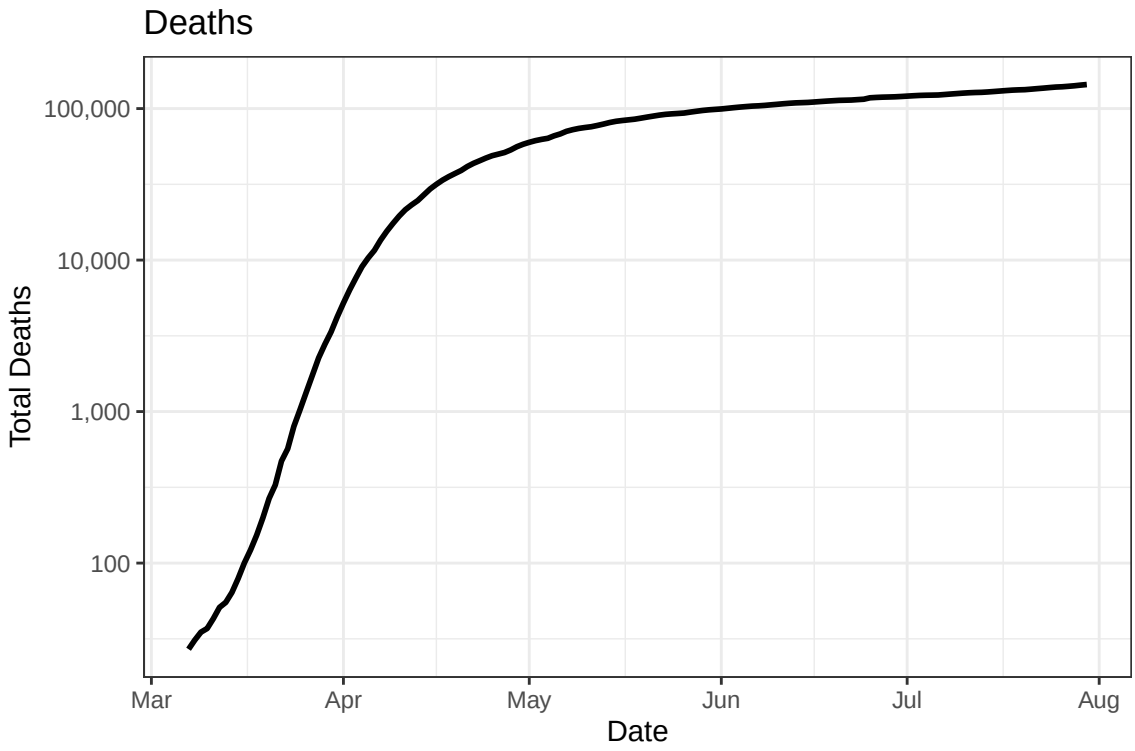
There have been 4,464,823 confirmed Covid-19 cases and 144,139 deaths in the United States.

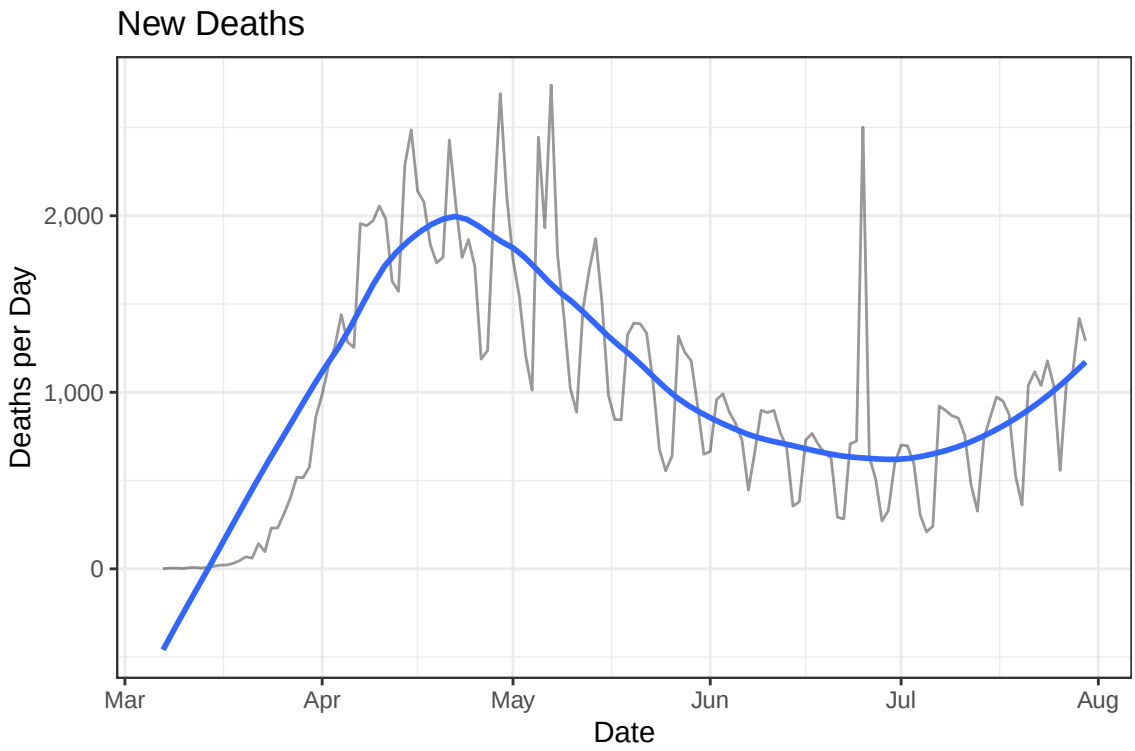
Table 2: U.S. Deaths and Cases over the Last Two Weeks

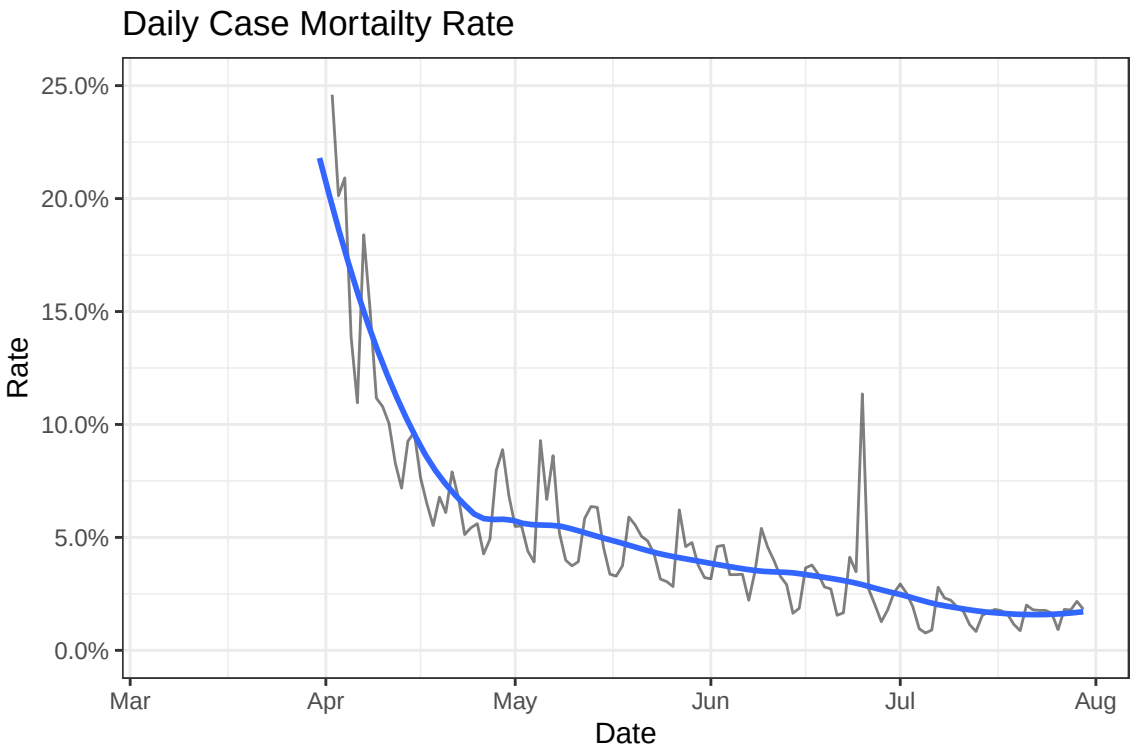
Date	Cases	Deaths	New Cases	New Deaths
2020-07-30	4,464,823	144,139	69,917	1,291
2020-07-29	4,394,906	142,848	66,211	1,418
2020-07-28	4,328,695	141,430	53,507	1,121
2020-07-27	4,275,188	140,309	55,134	1,059
2020-07-26	4,220,054	139,250	61,713	558
2020-07-25	4,158,341	138,692	65,413	1,037
2020-07-24	4,092,928	137,655	75,193	1,178
2020-07-23	4,017,735	136,477	71,027	1,039
2020-07-22	3,946,708	135,438	69,150	1,117
2020-07-21	3,877,558	134,321	63,642	1,038
2020-07-20	3,813,916	133,283	56,971	362
2020-07-19	3,756,945	132,921	64,884	526
2020-07-18	3,692,061	132,395	65,180	872
2020-07-17	3,626,881	131,523	77,233	951

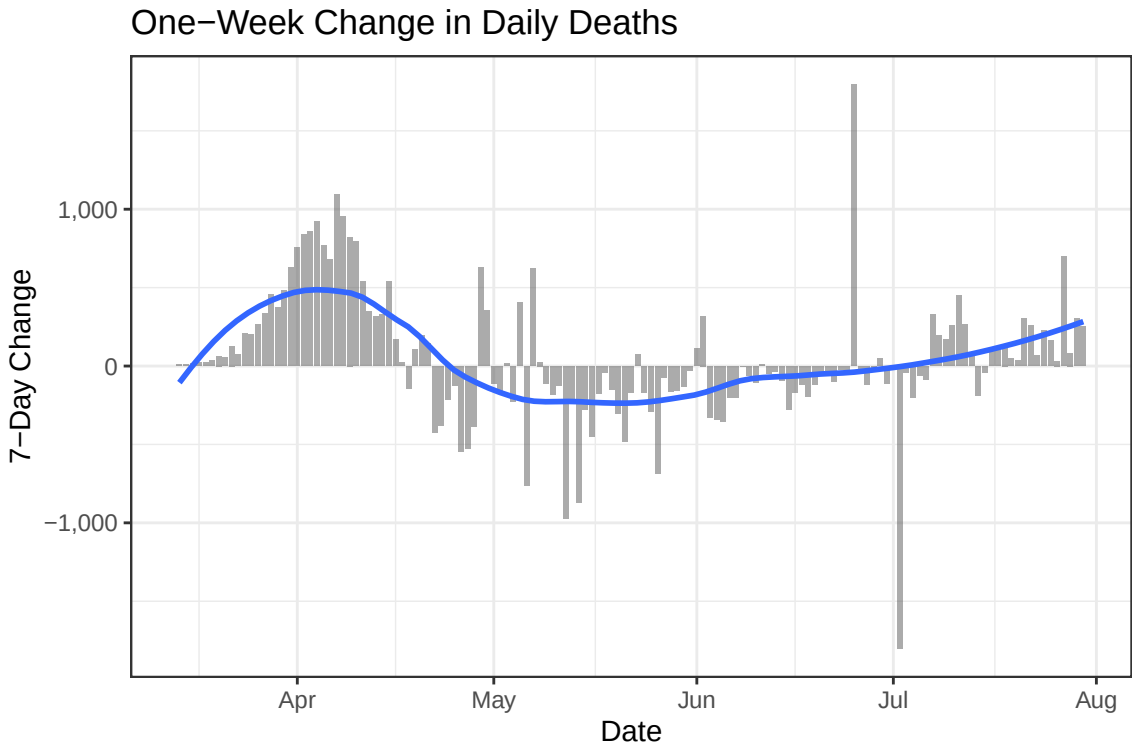
Deaths

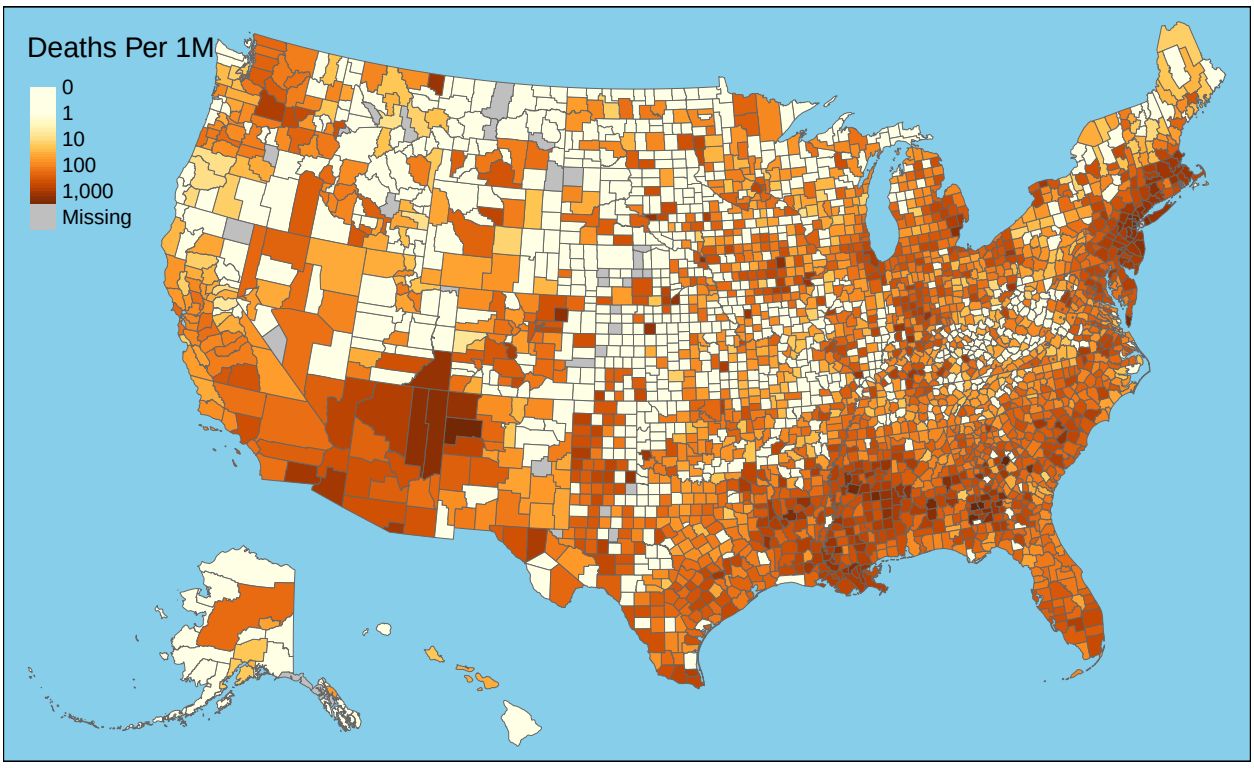
Because the effects of the virus can take several weeks to manifest in patients, deaths are a lagging indicator of contagion, but they may be a more reliable than case counts, which are a function of both the prevalence of the disease and the rate of testing. The case mortality rate is a very crude indicator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





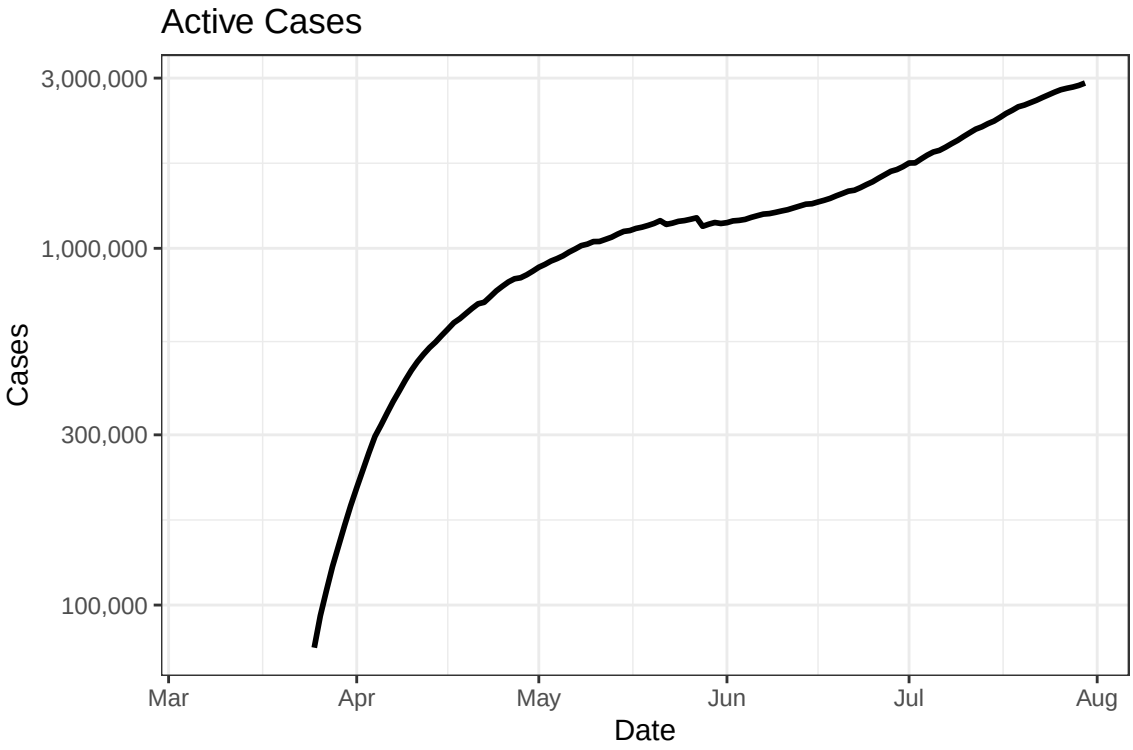

Daily Case Mortailty Rate
25.0%
20.0%
15.0%
10.0%
5.0%
0.0%
Rate
Mar
Apr
May
Jun
Jul
Aug
Date

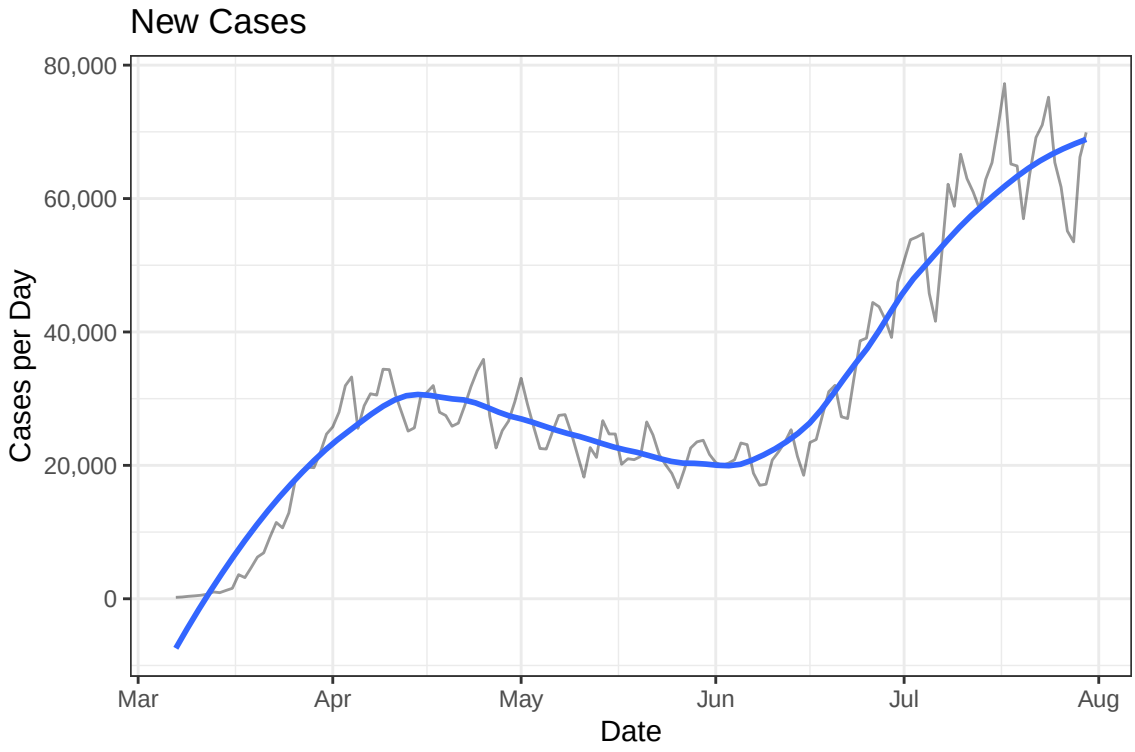

One−Week Change in Daily Deaths
1,000
0
−1,000
7−Day Change
Apr
May
Jun
Jul
Aug
Date

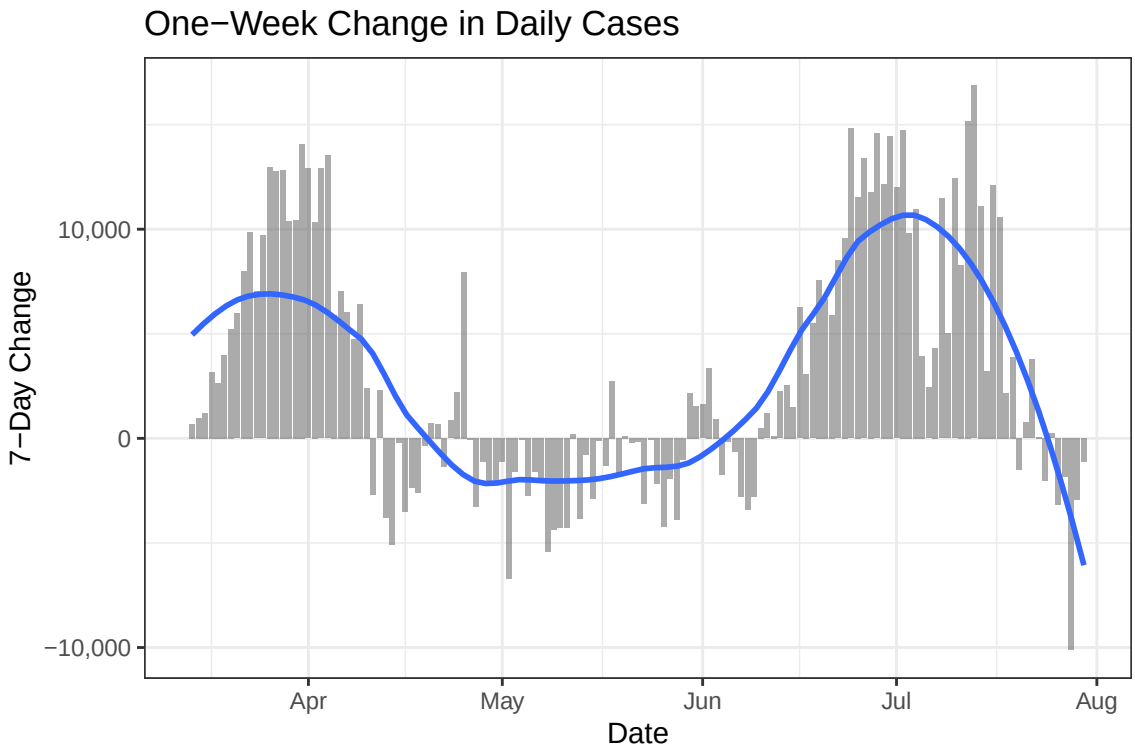

Deaths Per 1M
0
1
10
100
1,000
Missing

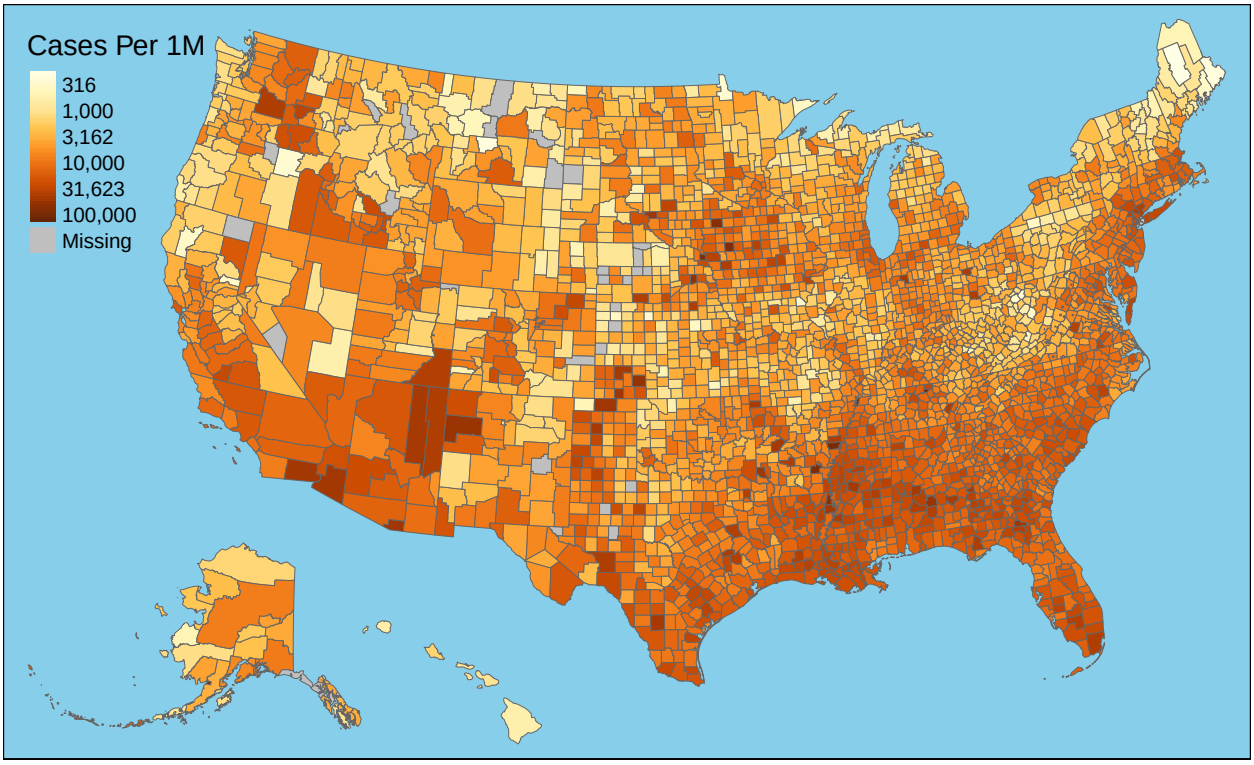
Cases

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



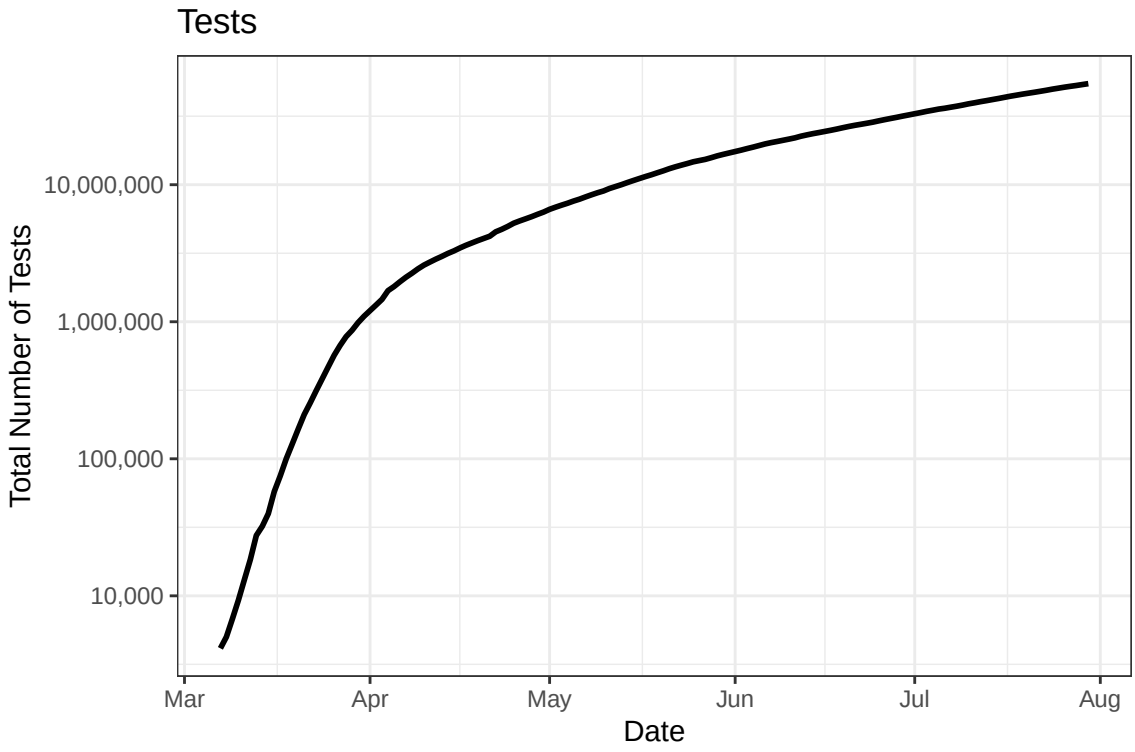


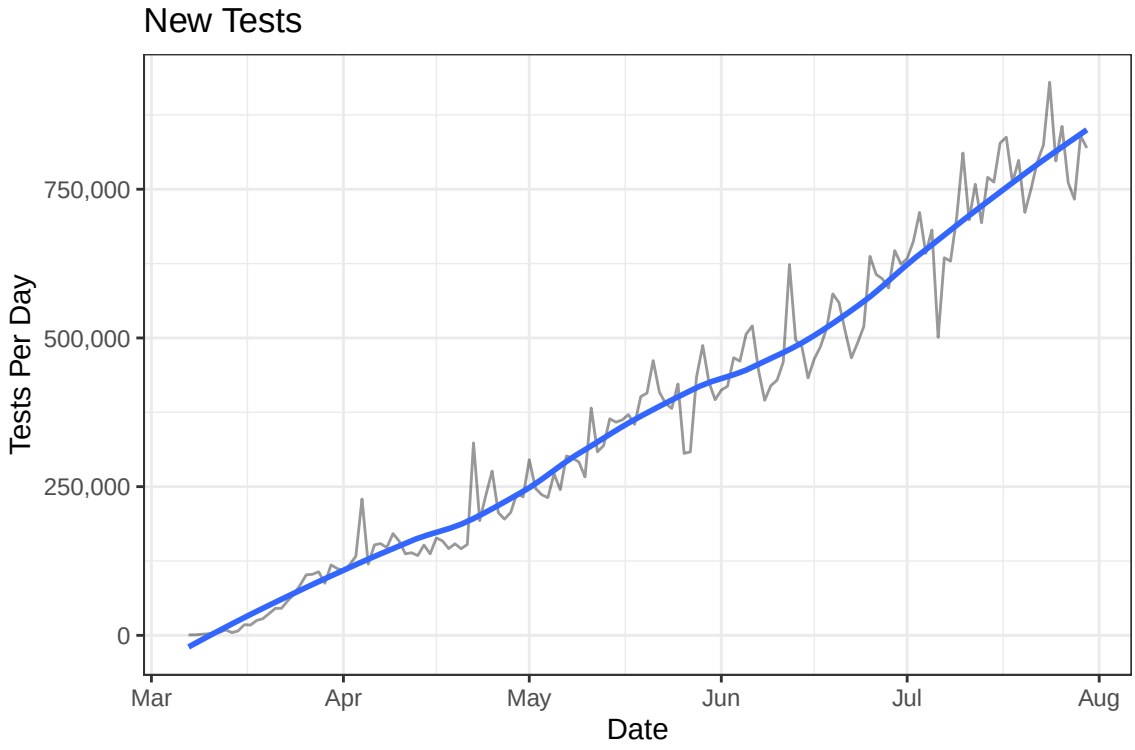

One−Week Change in Daily Cases
7−Day Change
10,000
0
−10,000
Apr
May
Jun
Jul
Aug
Date

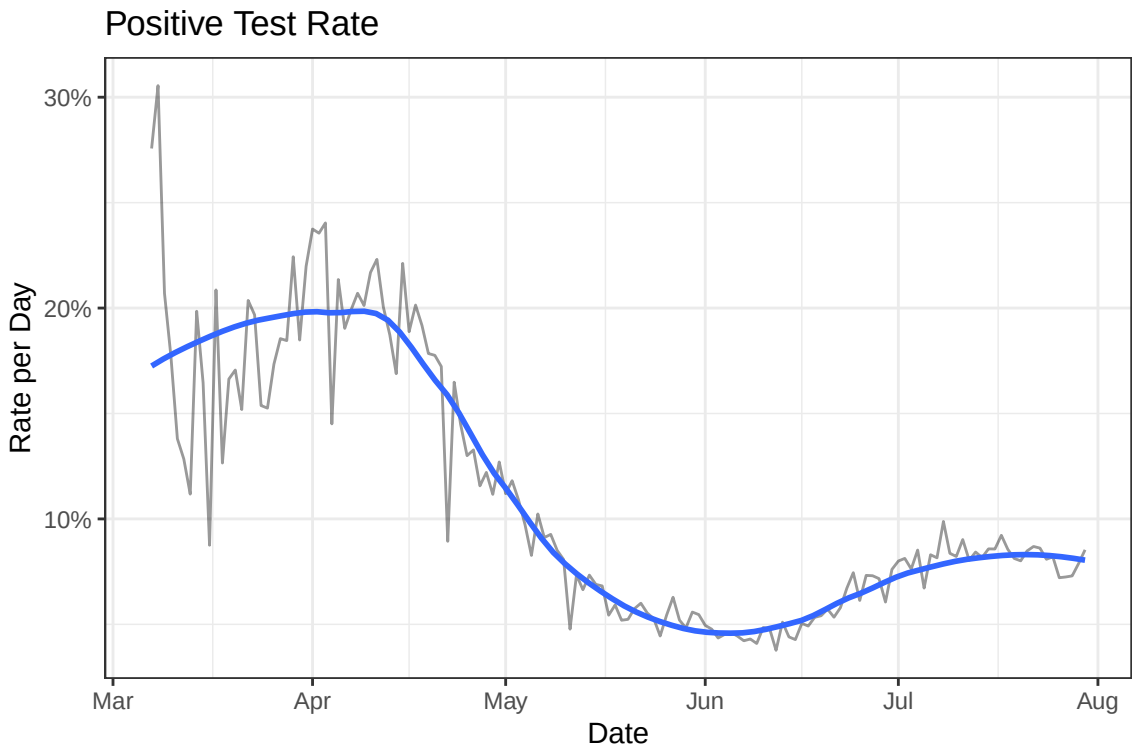

Cases Per 1M
316
1,000
3,162
10,000
31,623
100,000
Missing

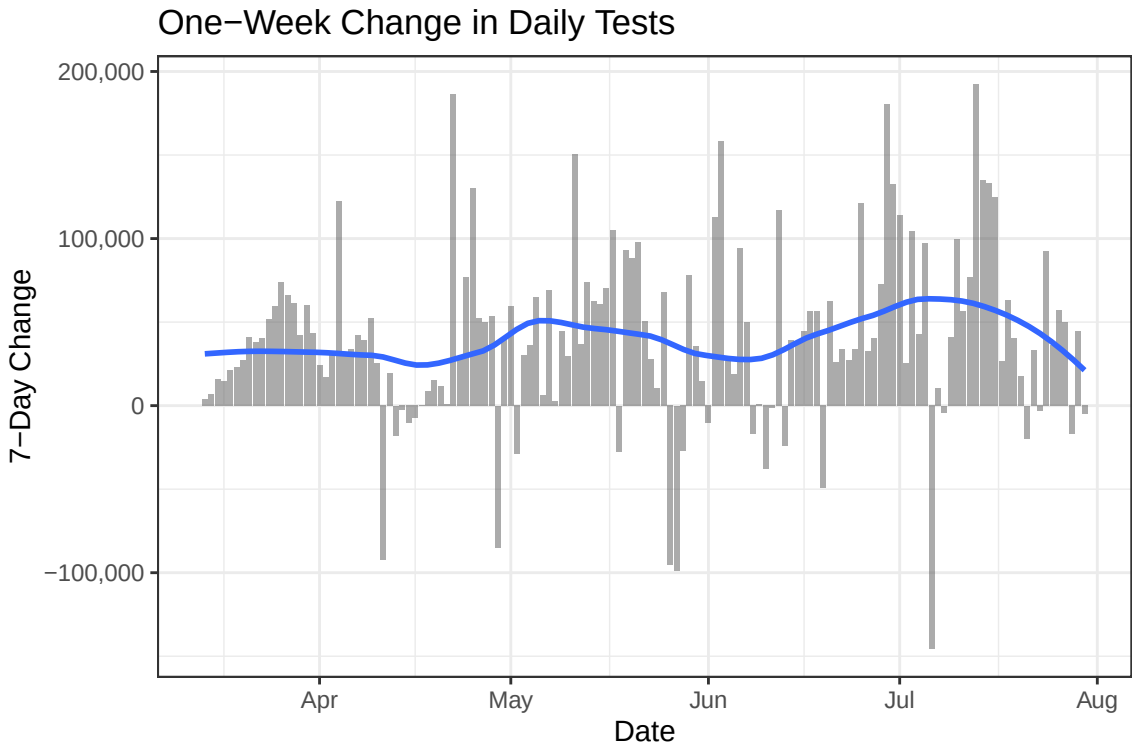
Testing

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.





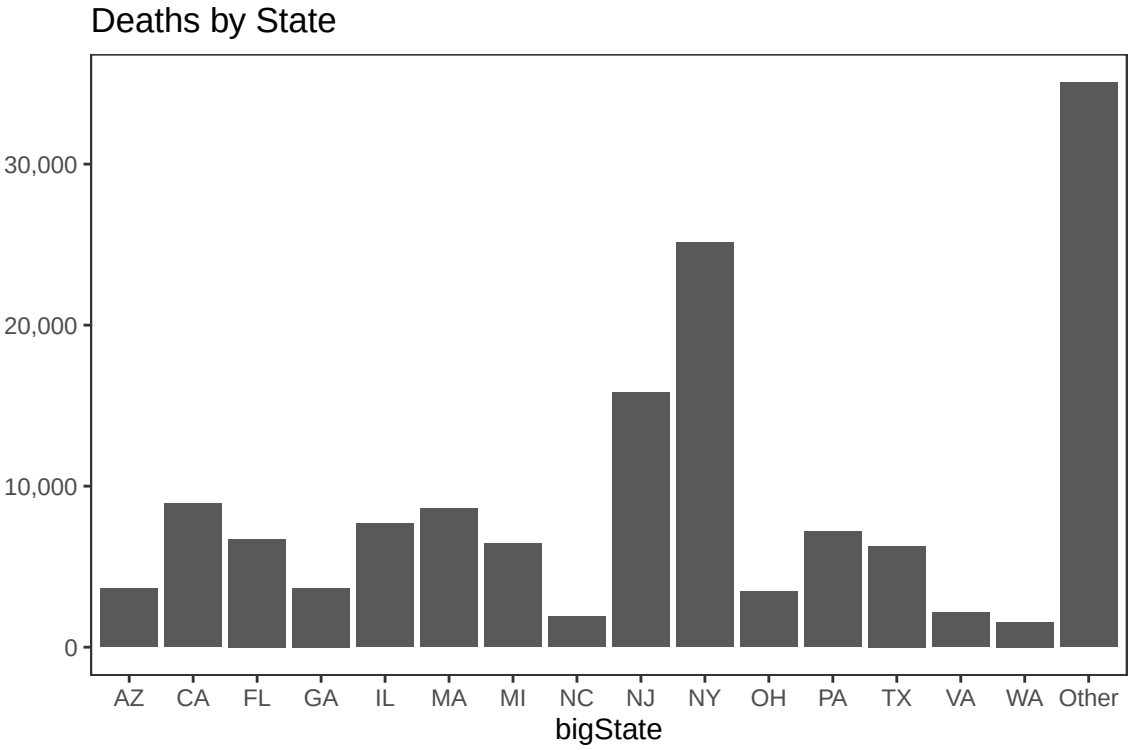

Positive Test Rate
30%
20%
10%
Rate per Day
Mar
Apr
May
Jun
Jul
Aug
Date

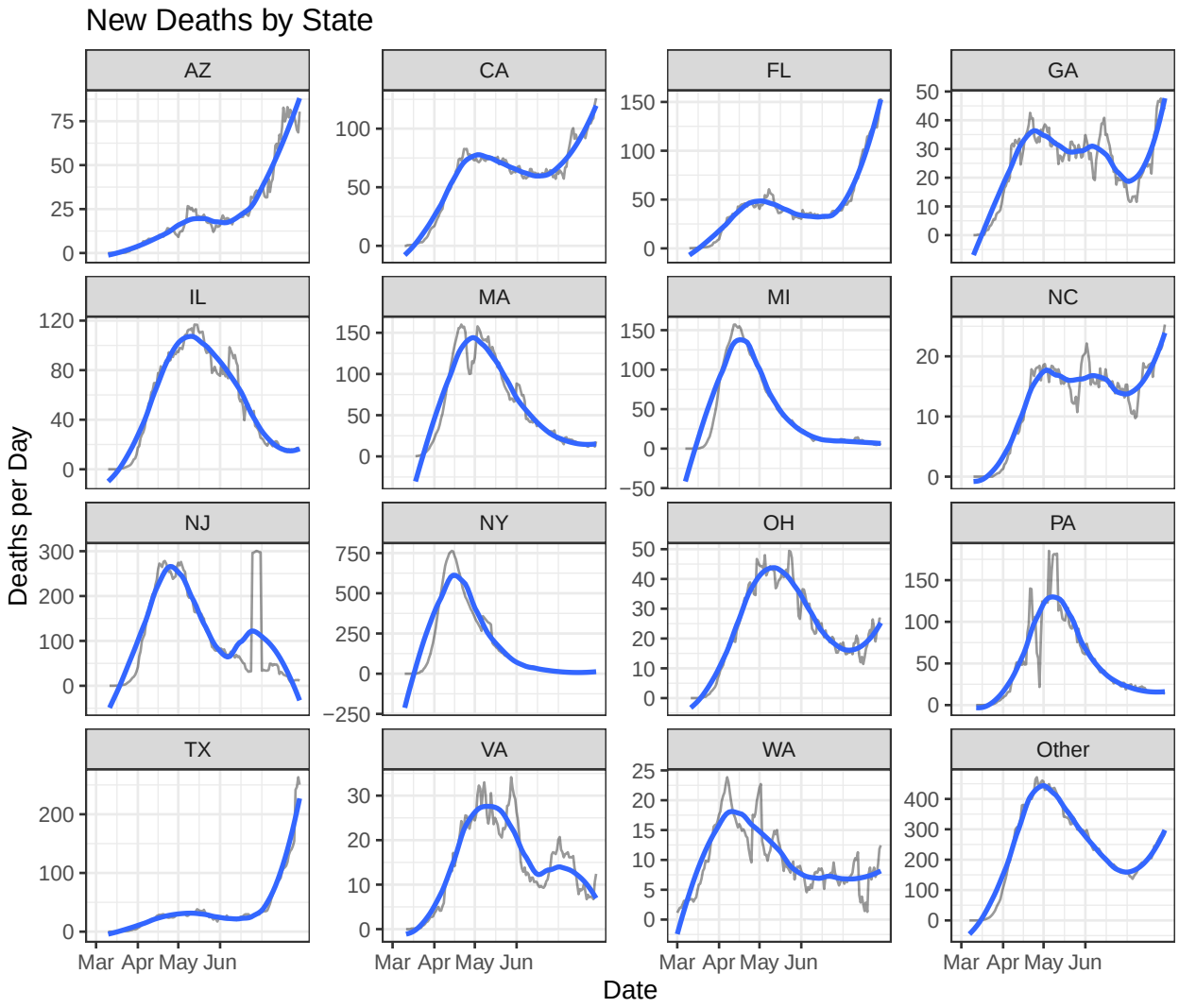

One−Week Change in Daily Tests
200,000
100,000
0
−100,000
7−Day Change
Apr
May
Jun
Jul
Aug
Date

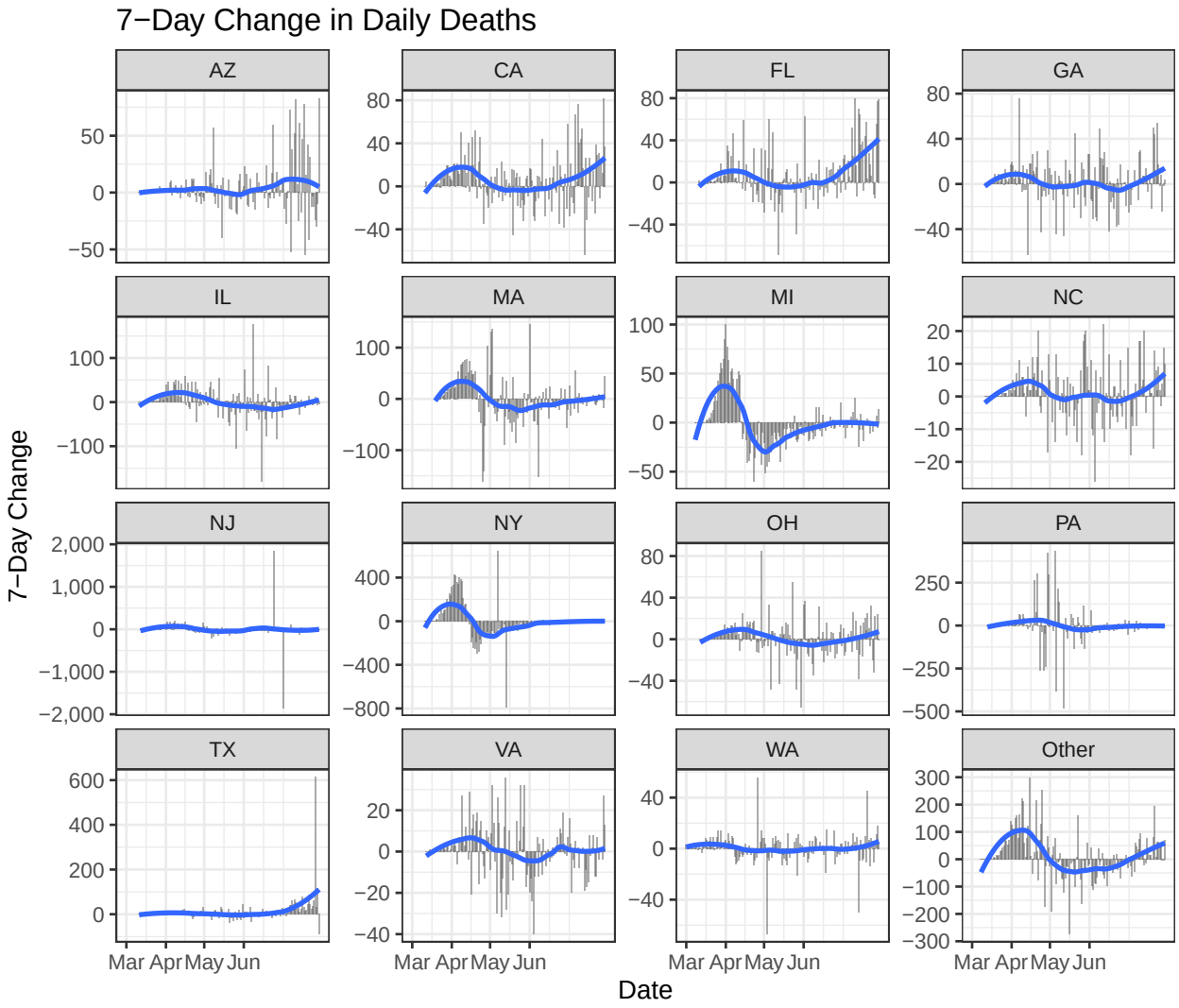
State Data

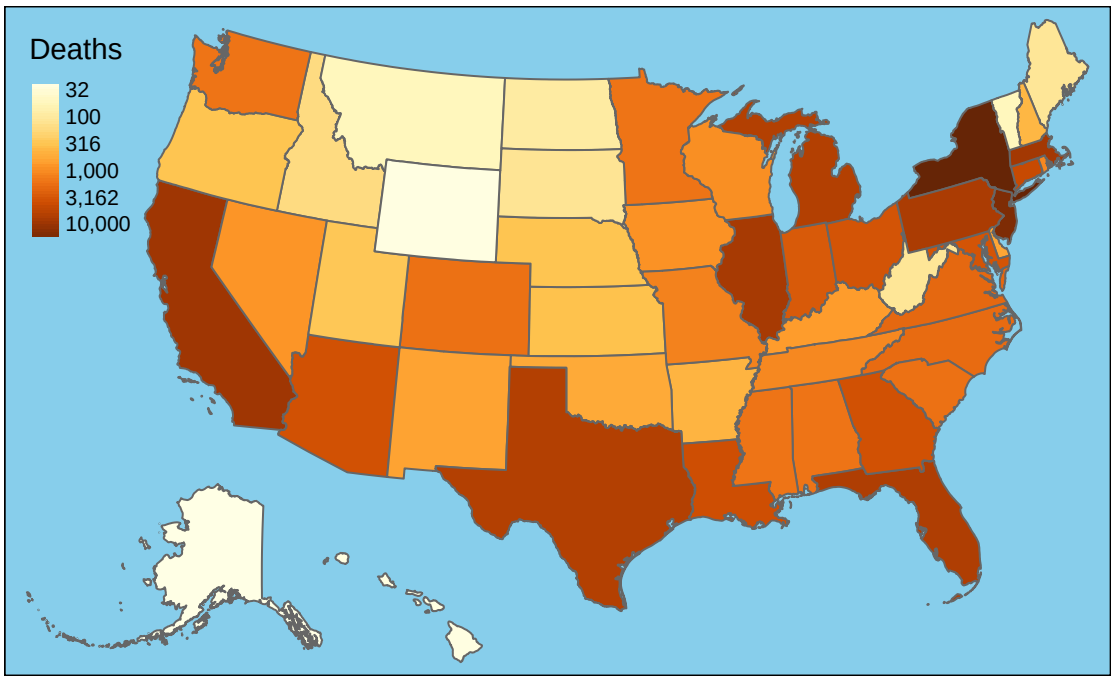
This section summarizes state-level data. Most data are reported for the largest 15 states by population, which account for NaN percent of the total U.S. population.

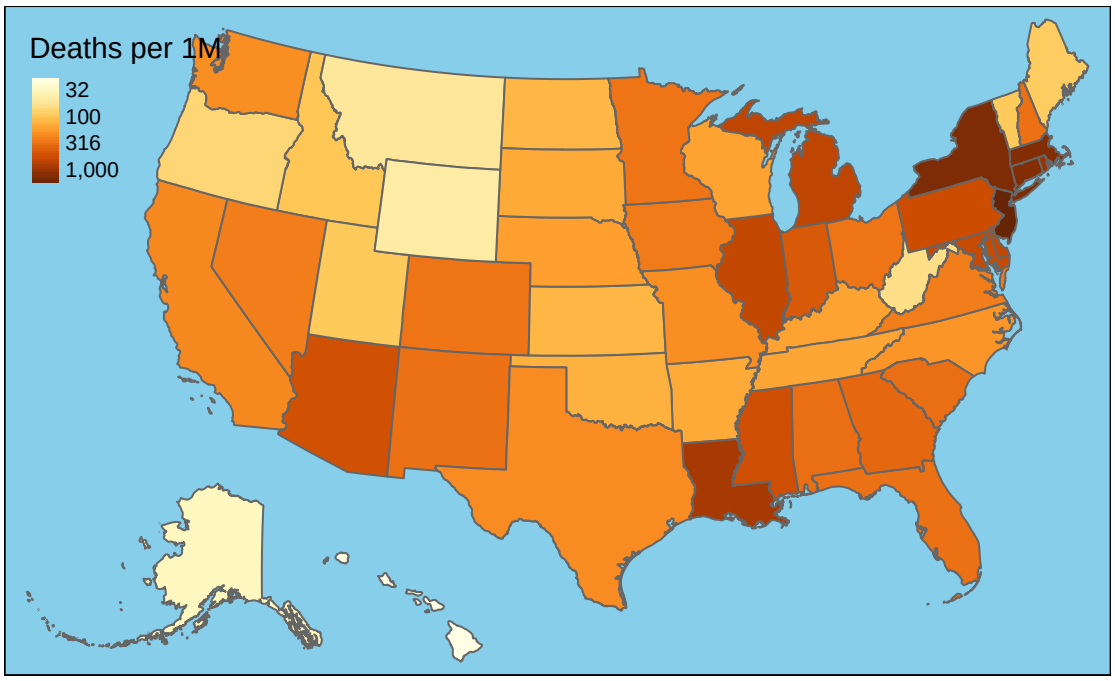
Deaths



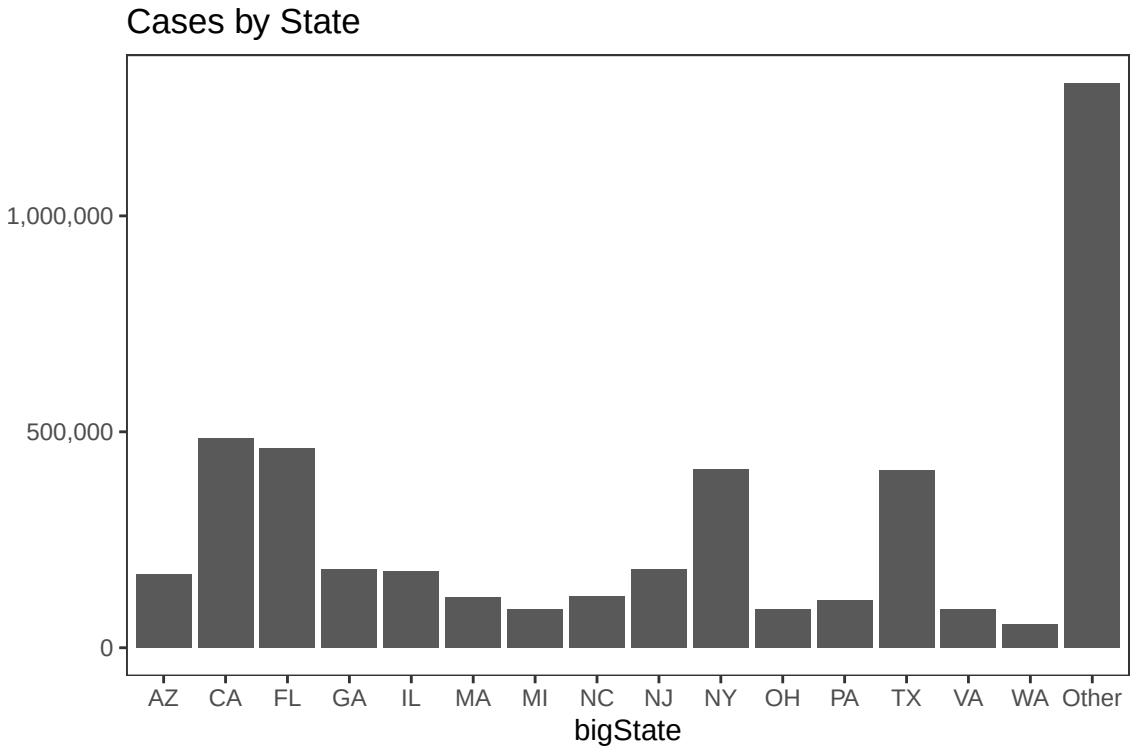

New Deaths by State
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
Deaths per Day
Mar Apr May Jun
Date

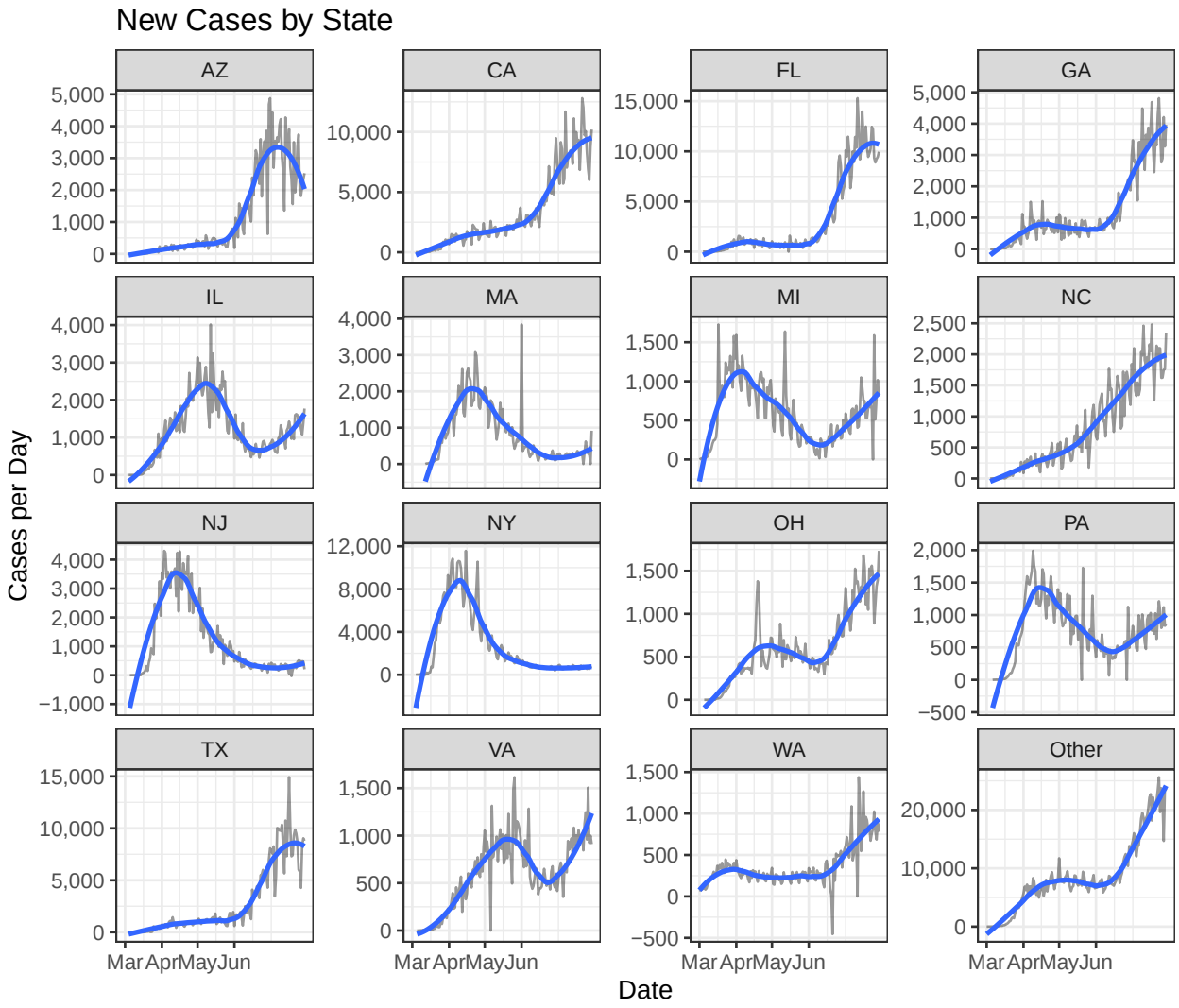

7−Day Change in Daily Deaths
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
7−Day Change
Mar Apr May Jun
Date

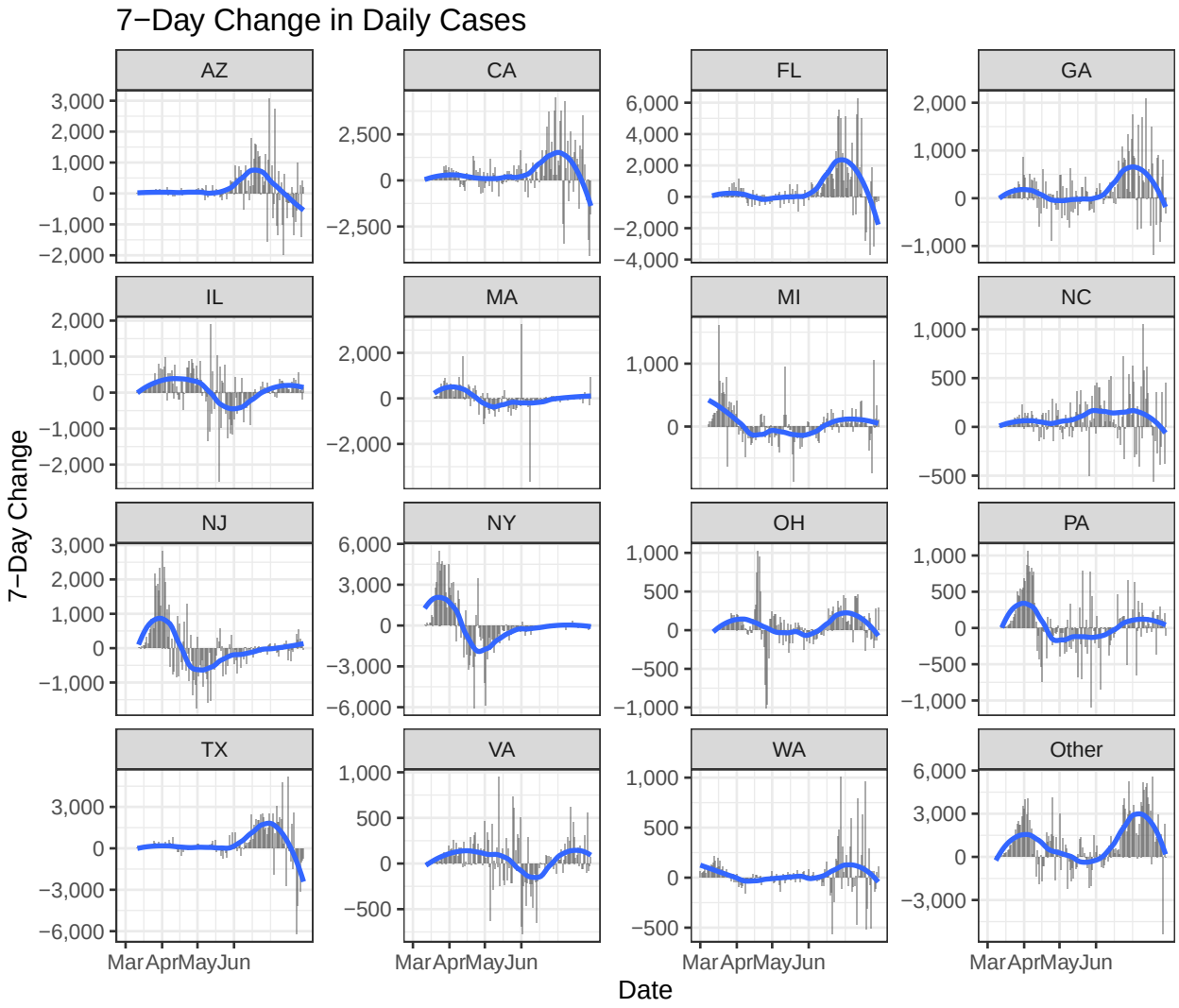

Deaths
32
100
316
1,000
3,162
10,000

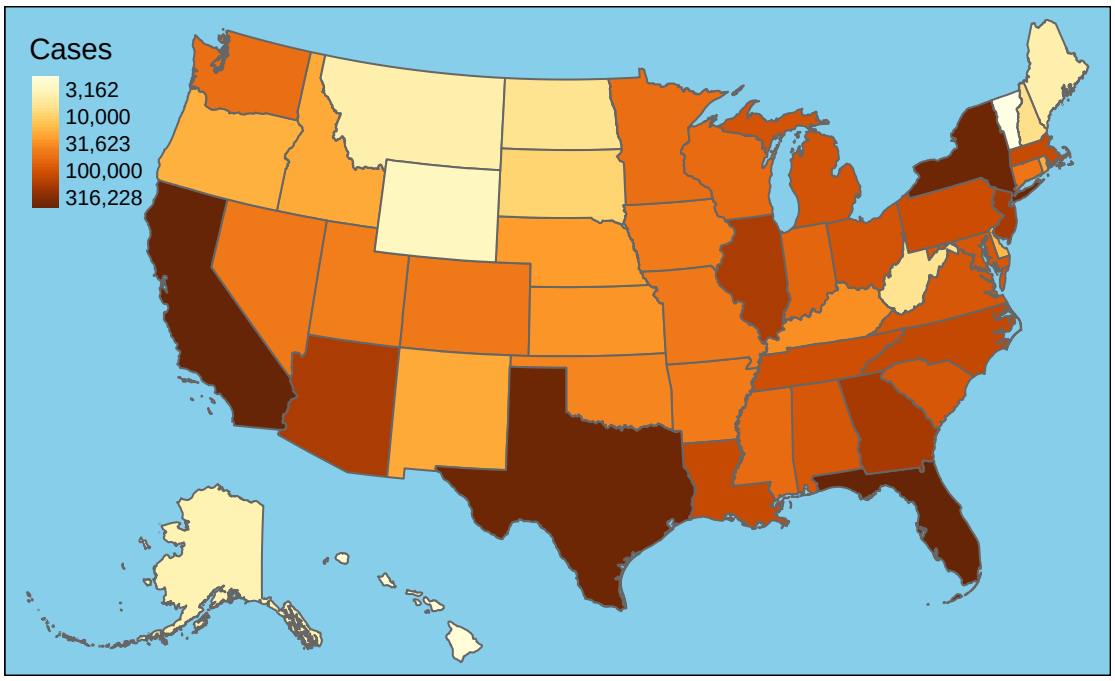

Deaths per 1M
32
100
316
1,000

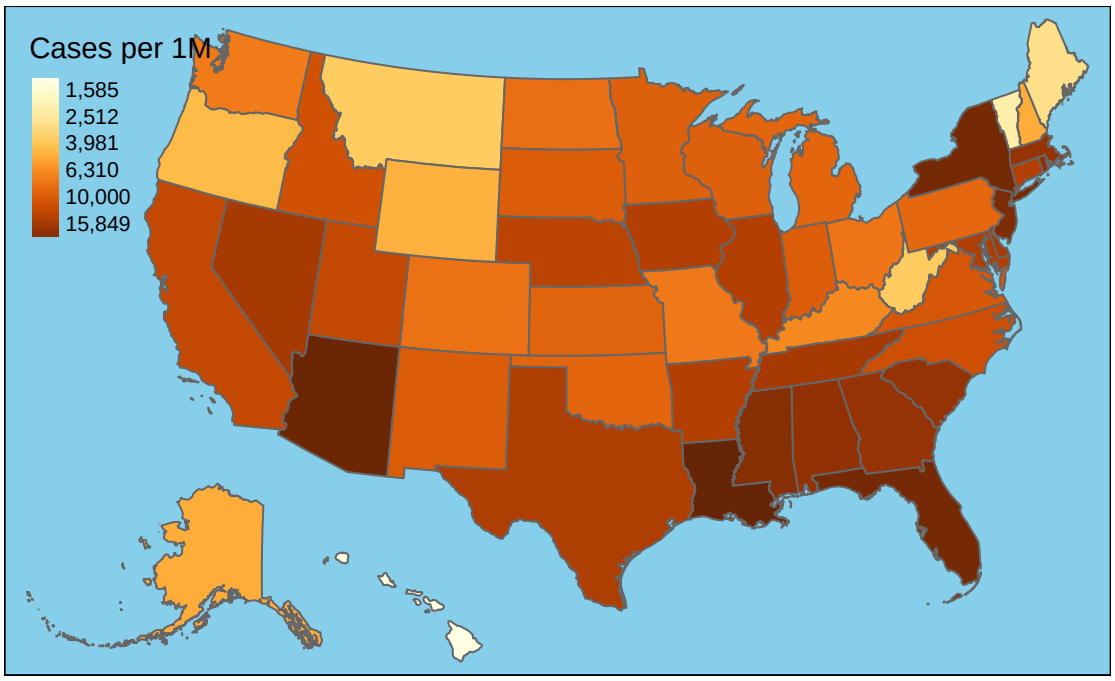
Cases


Cases by State
1,000,000
500,000
0
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
bigState

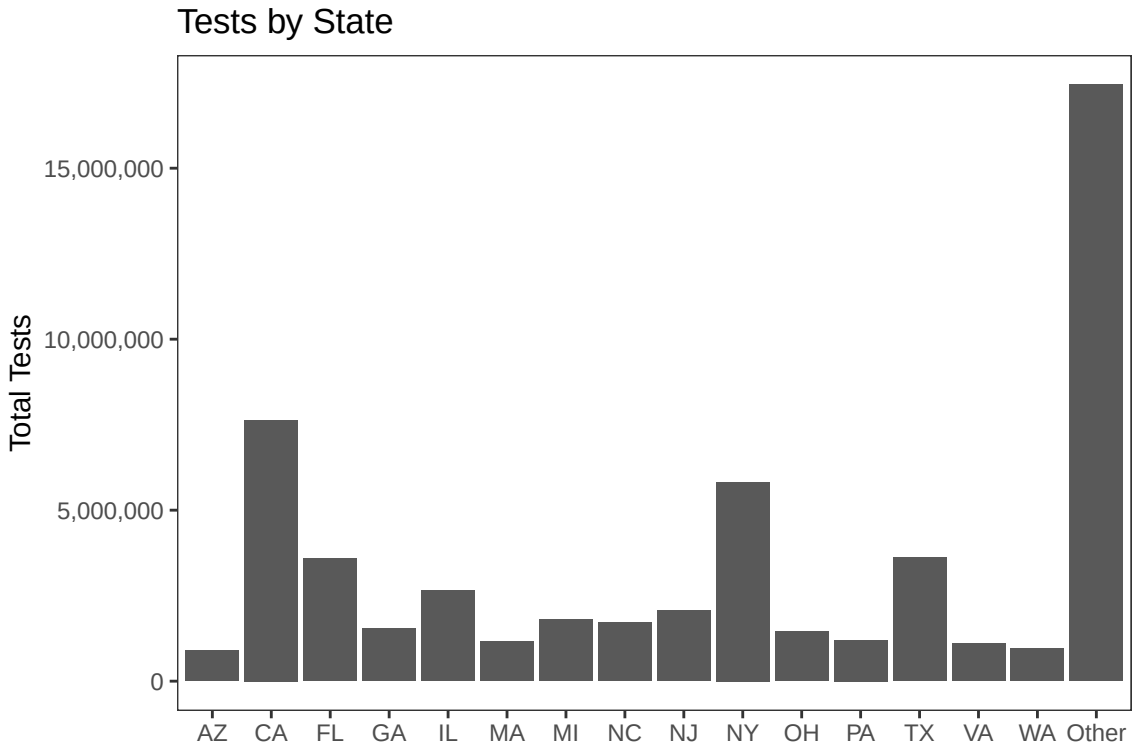

New Cases by State
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
Cases per Day
Date
Mar
Apr
May
Jun

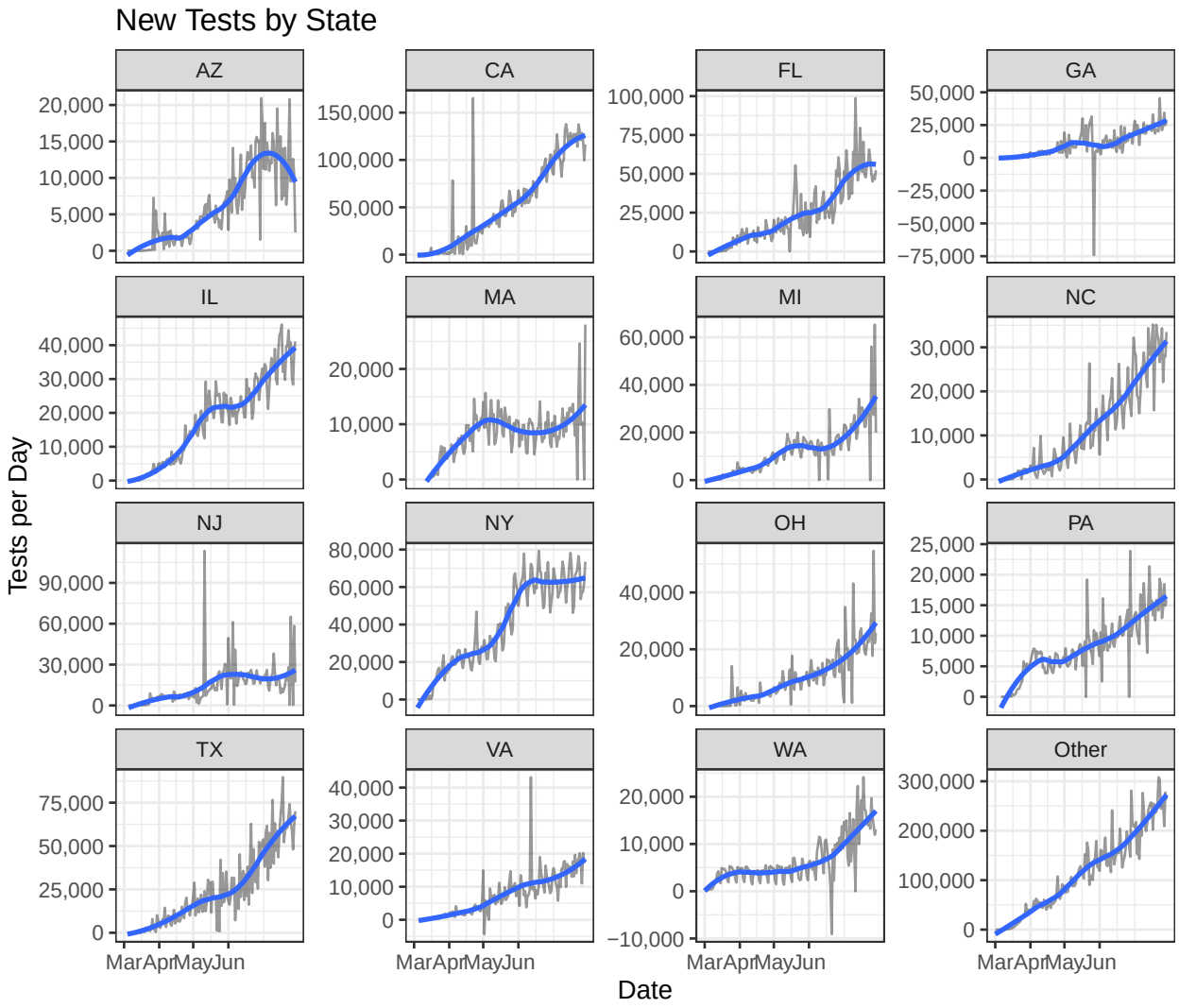

7−Day Change in Daily Cases
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
7−Day Change
Date
Mar
Apr
May
Jun

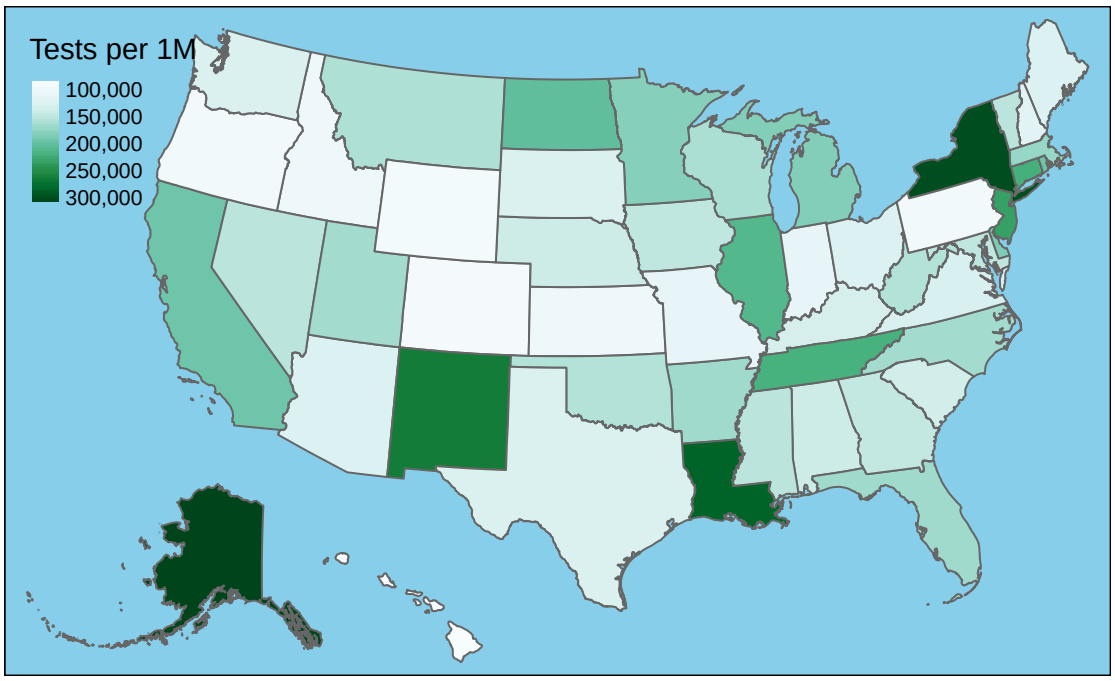

Cases
3,162
10,000
31,623
100,000
316,228

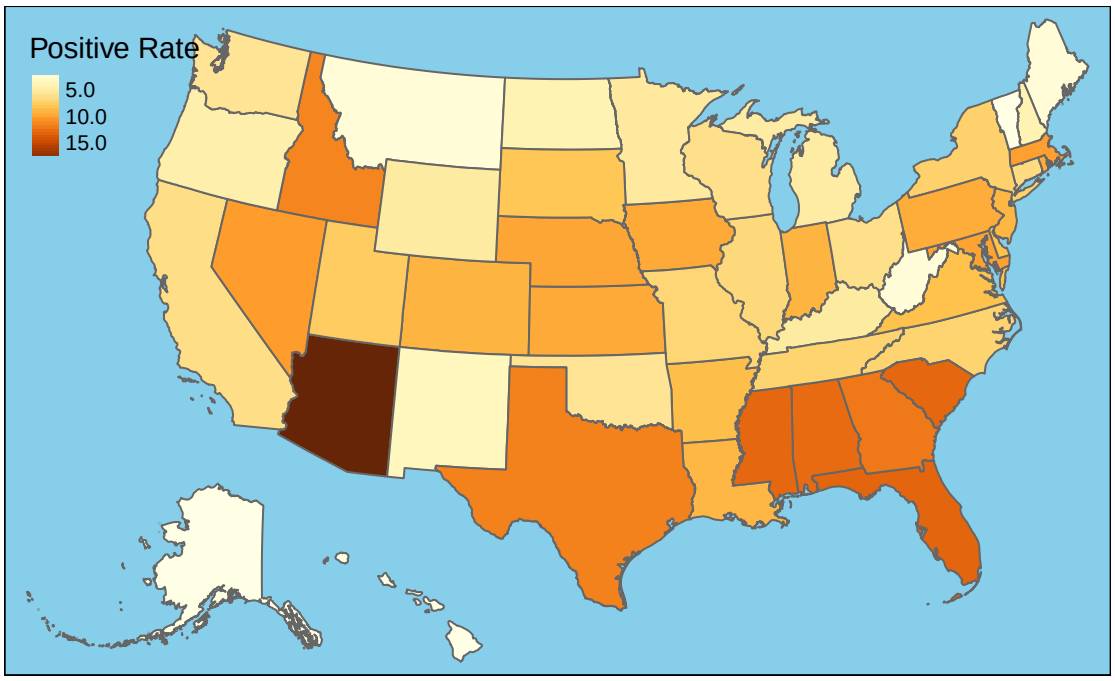

Cases per 1M
1,585
2,512
3,981
6,310
10,000
15,849

Testing

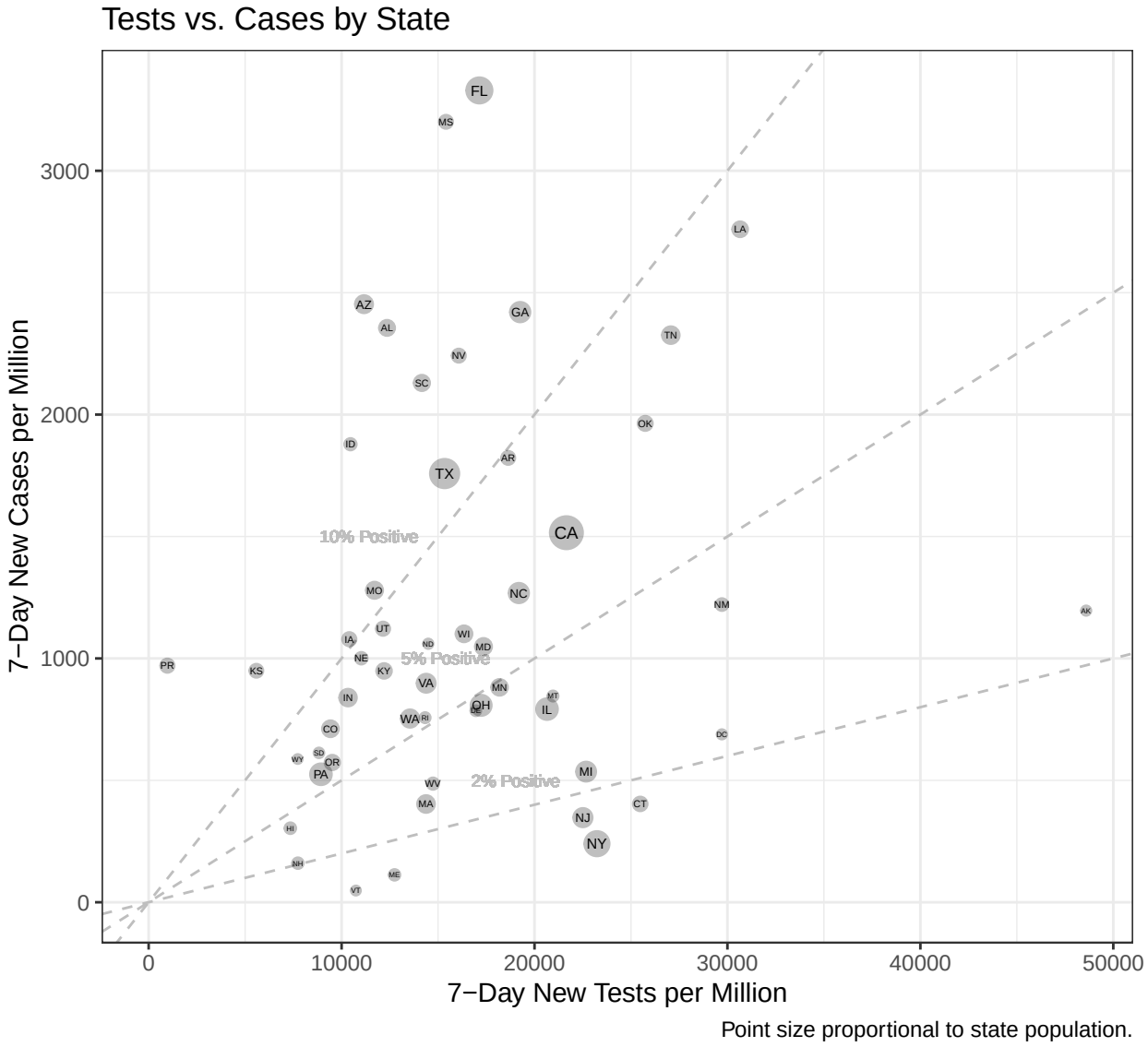

Tests by State
Total Tests
15,000,000
10,000,000
5,000,000
0
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other


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
100,000
150,000
200,000
250,000
300,000


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.



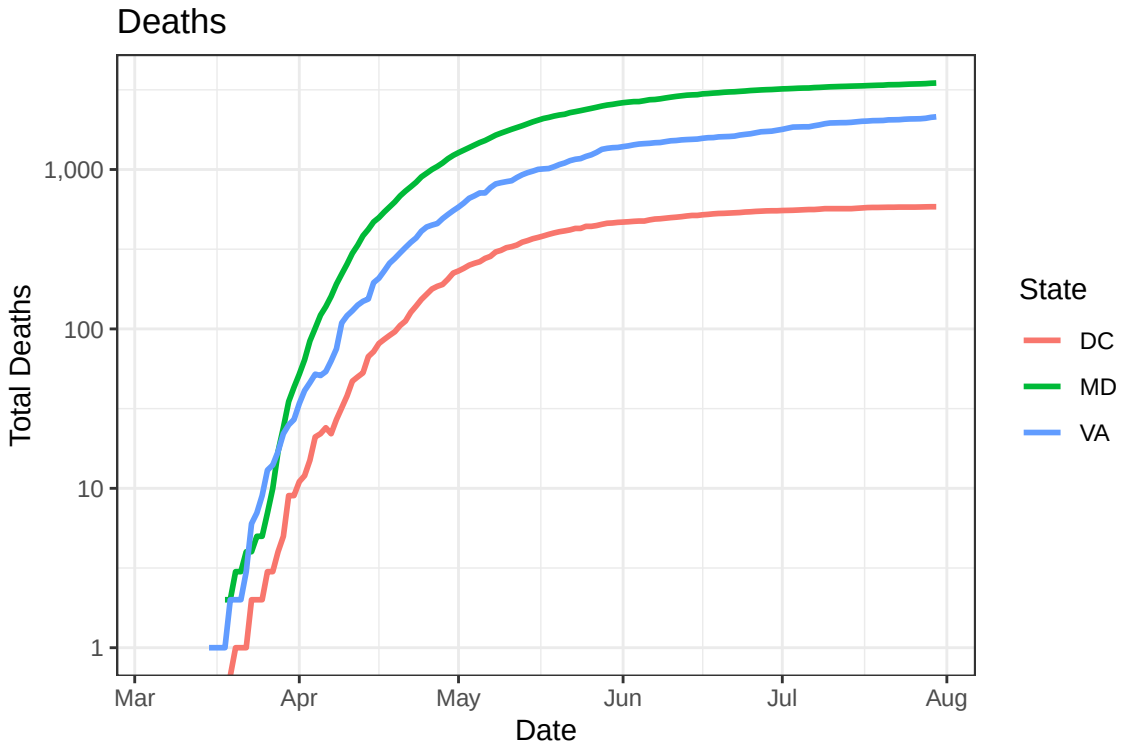
Local Data

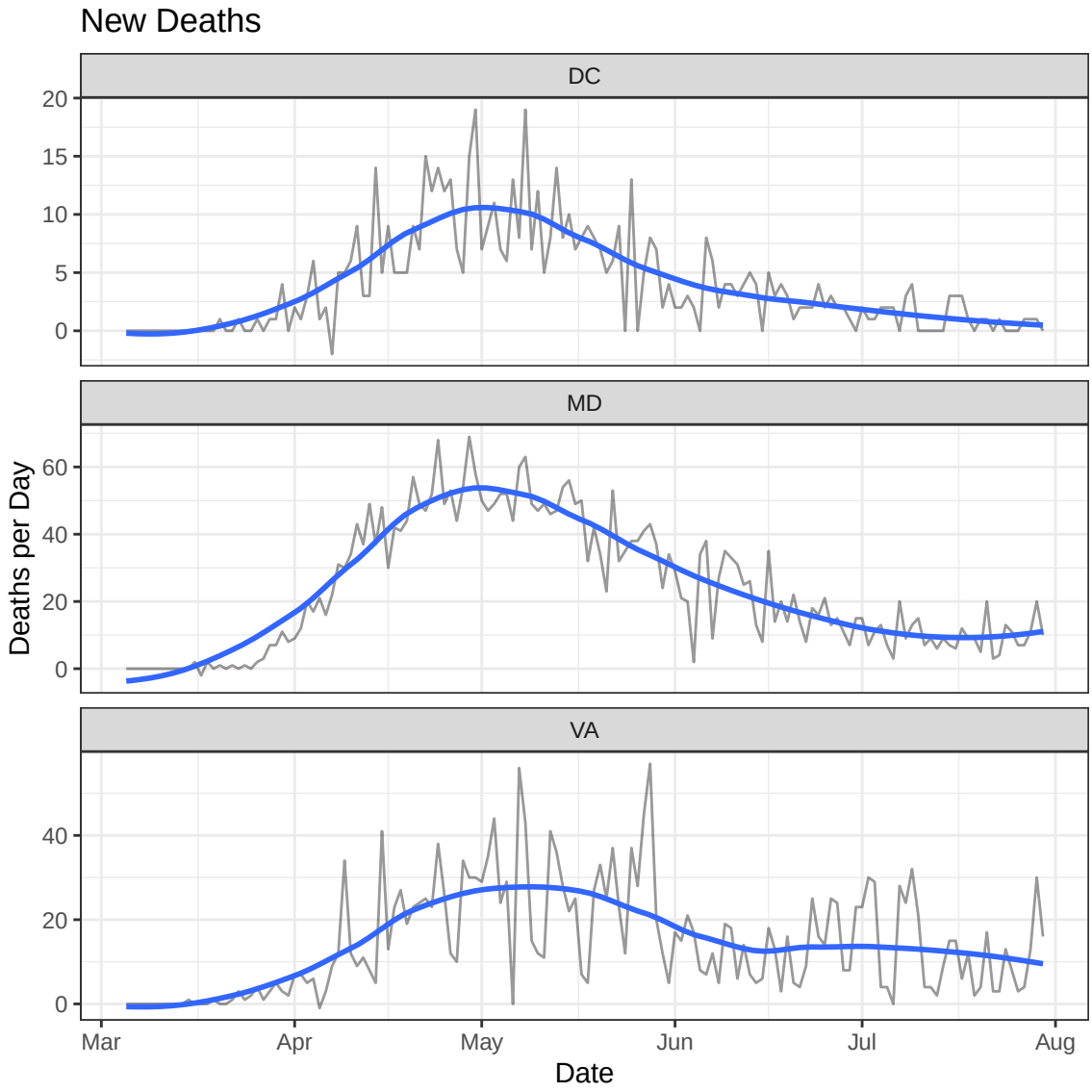
The following charts and tables present mortality, case, and testing data for the Washington DC metropolitan area and adjacent states.

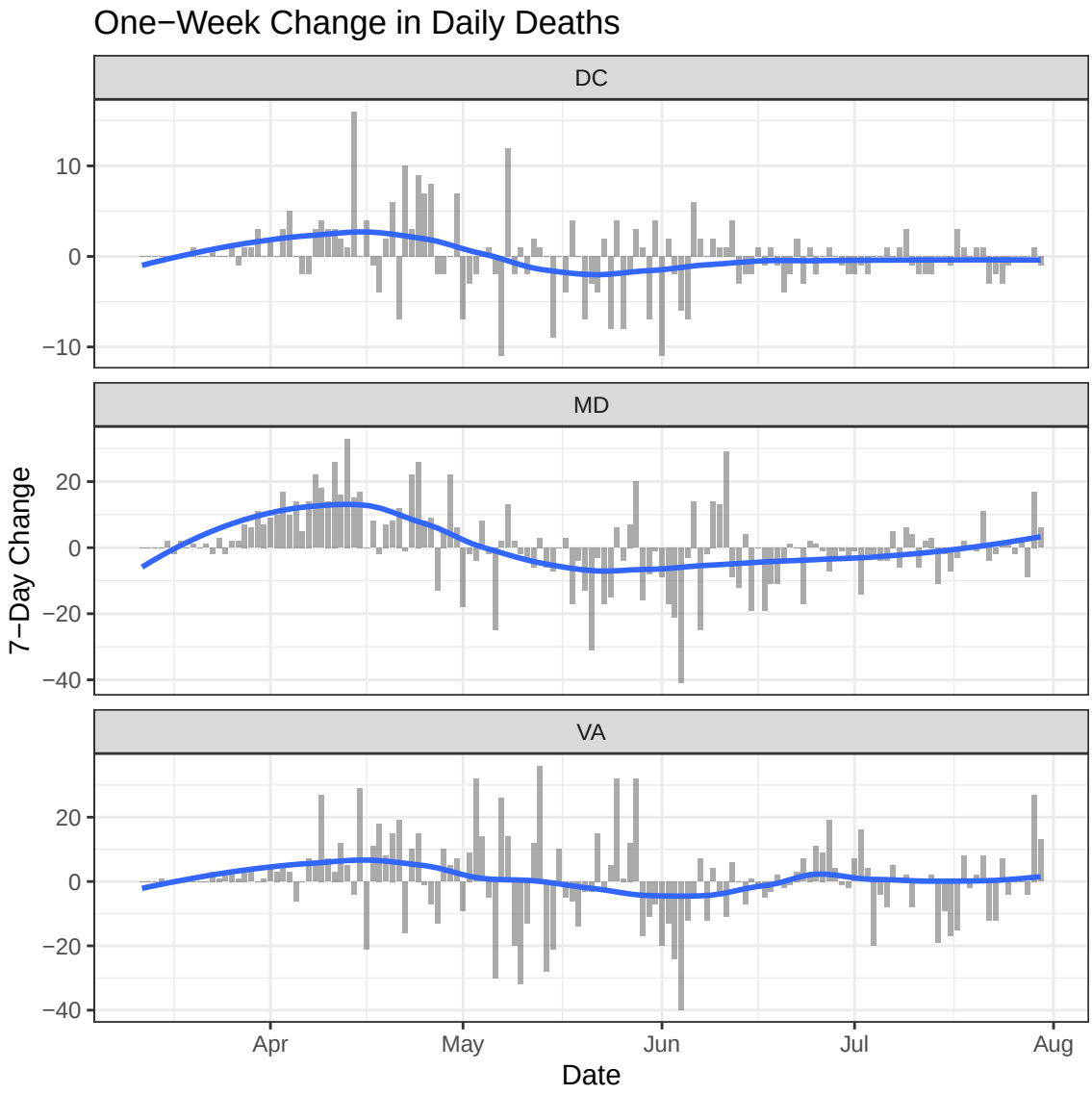
Table 3: Latest Local Data

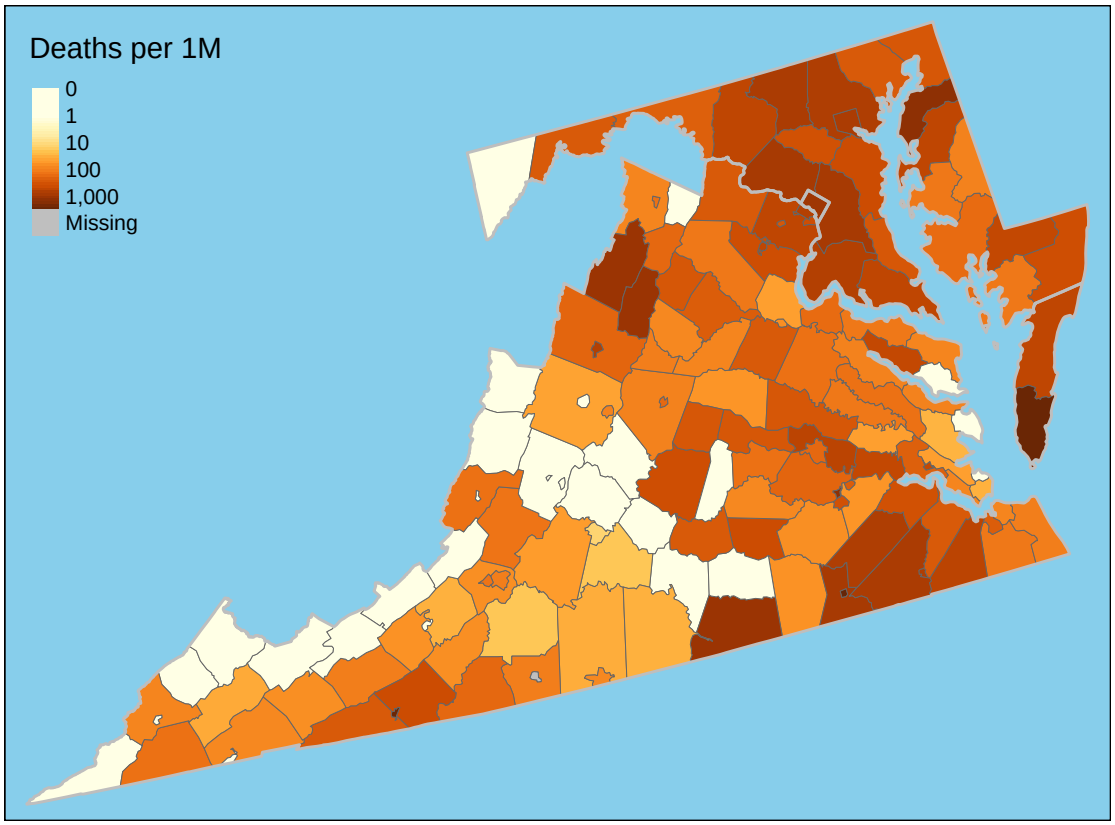
State	Cases	Deaths	New Cases	New Deaths
DC	12,057	584	58	0
MD	87,177	3,488	892	10
VA	88,904	2,141	911	16

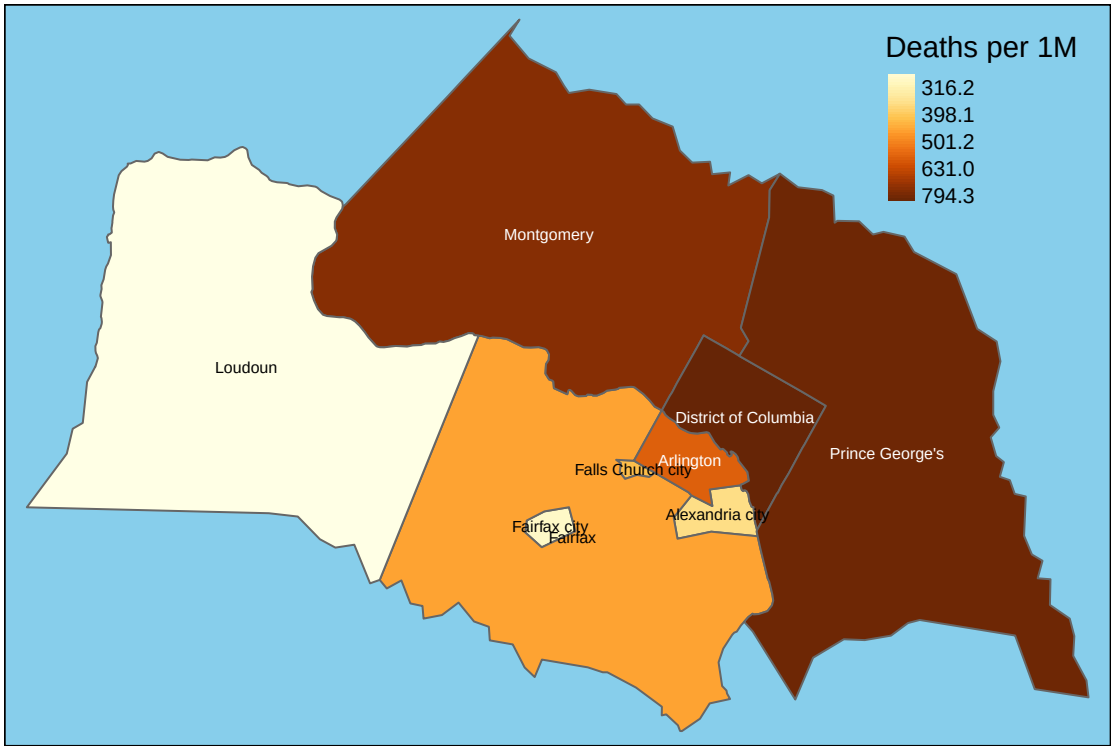
Deaths


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

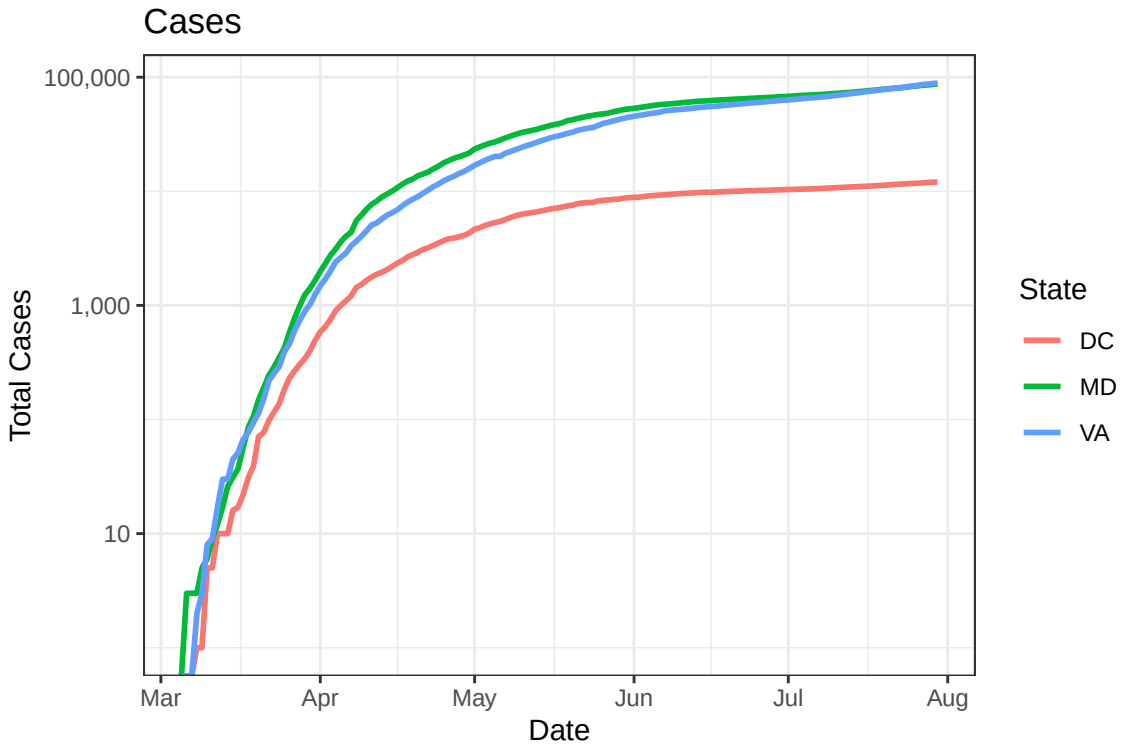

New Deaths
DC
MD
VA
Deaths per Day
Date
Mar
Apr
May
Jun
Jul
Aug

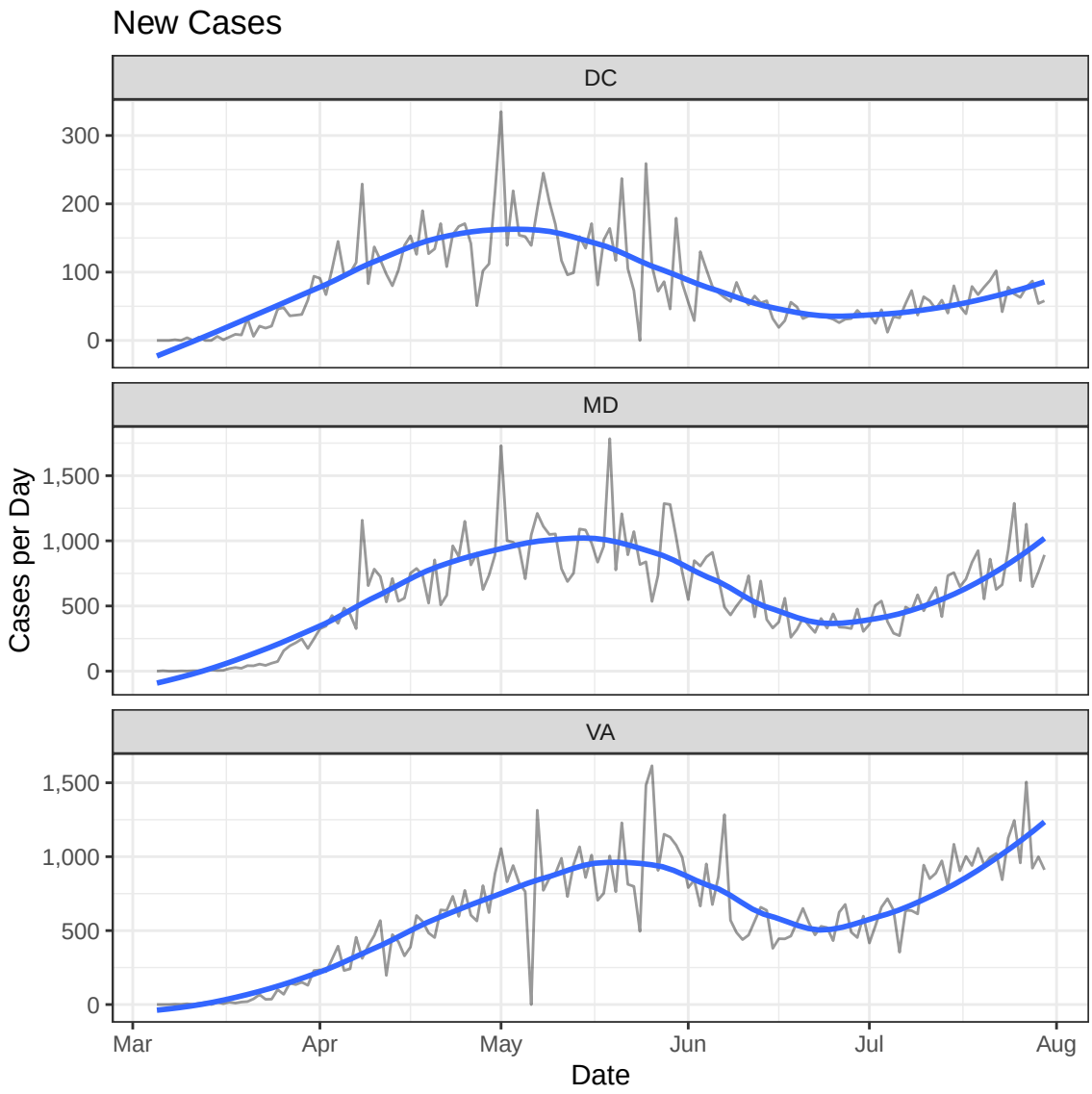

One−Week Change in Daily Deaths
DC
MD
VA
7−Day Change
10
0
−10
20
0
−20
−40
Apr
May
Jun
Jul
Aug
Date

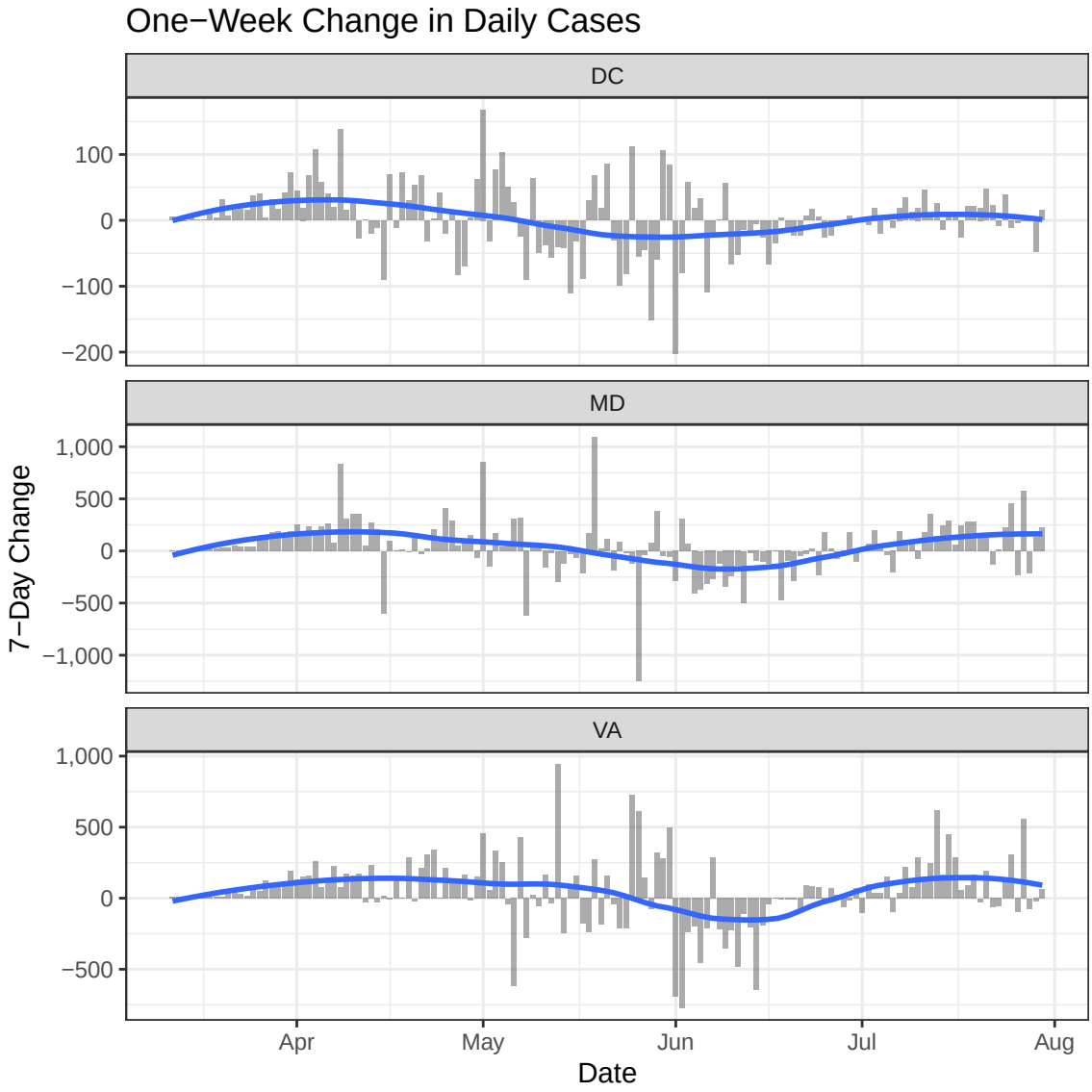

Deaths per 1M
0
1
10
100
1,000
Missing

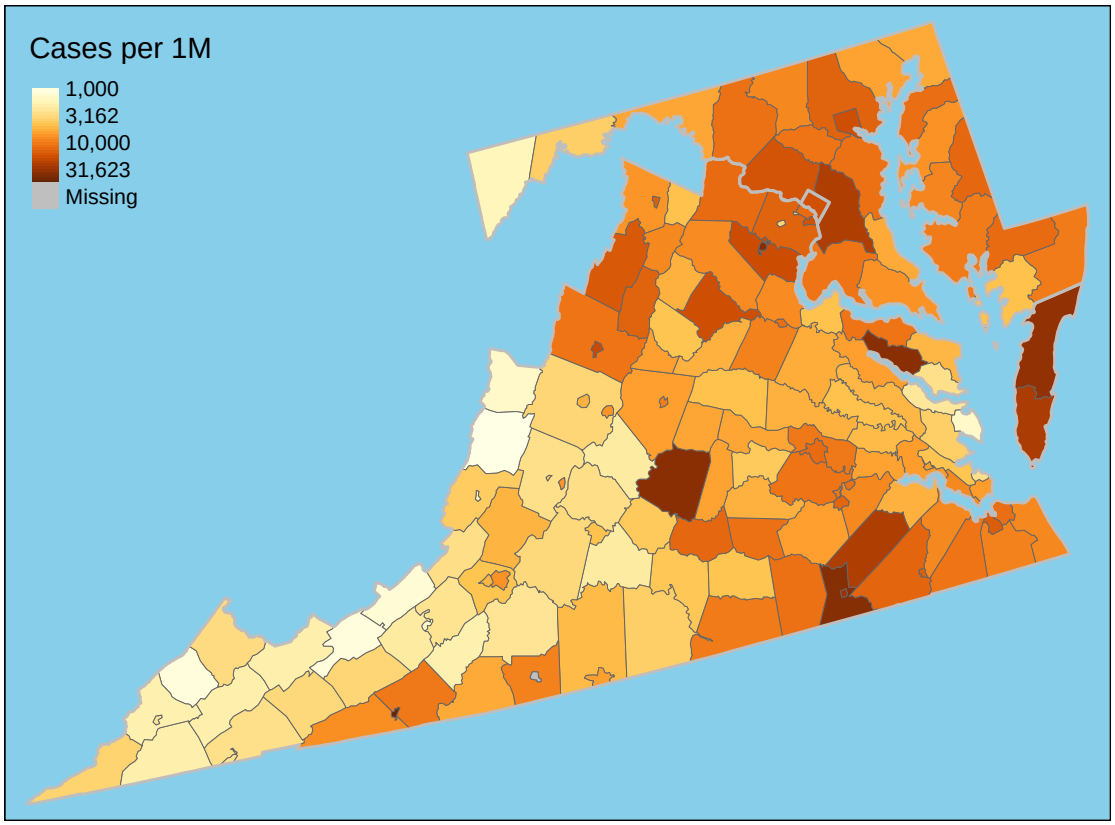

Deaths per 1M
316.2
398.1
501.2
631.0
794.3
Montgomery
Loudoun
District of Columbia
Prince George's
Arlington
Falls Church city
Alexandria city
Fairfax city
Fairfax

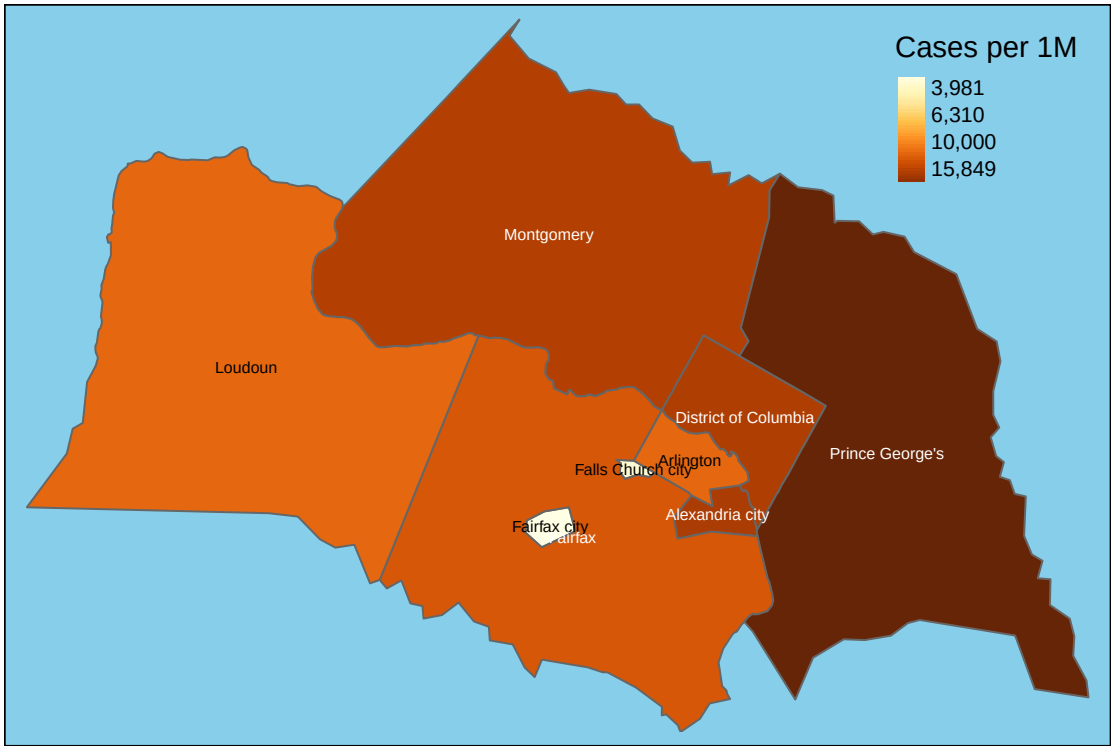
Cases


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

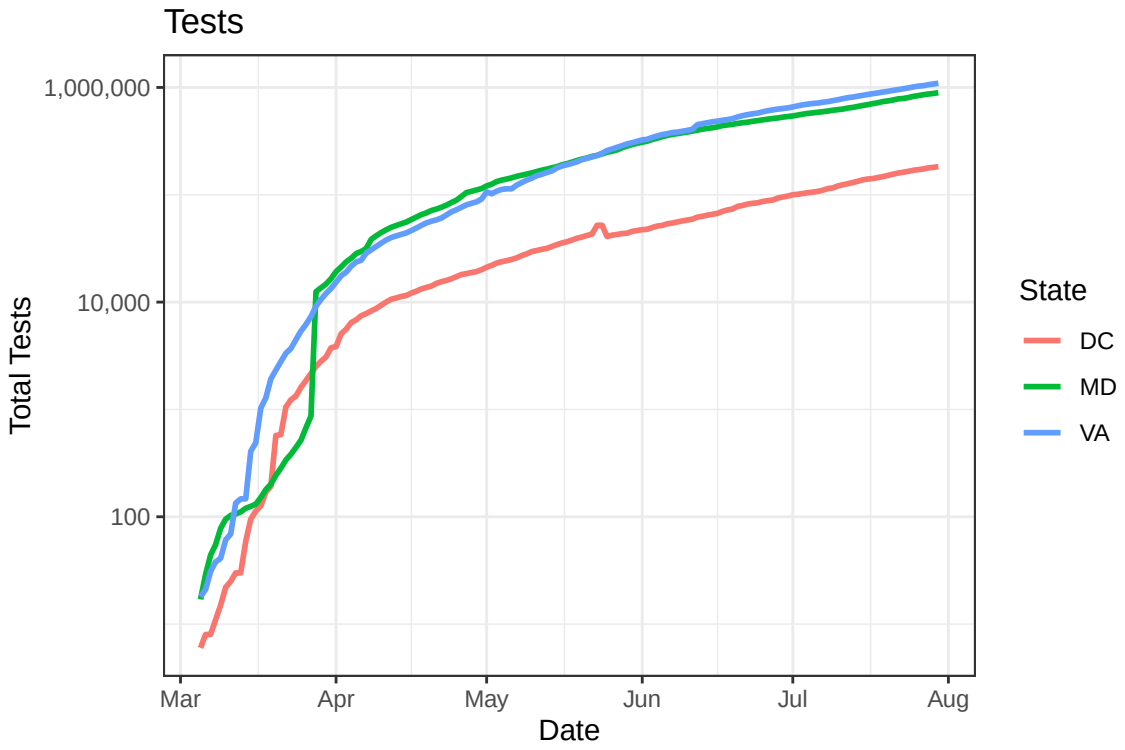

New Cases
DC
MD
VA
300
200
100
0
1,500
1,000
500
0
Cases per Day
Mar
Apr
May
Jun
Jul
Aug
Date

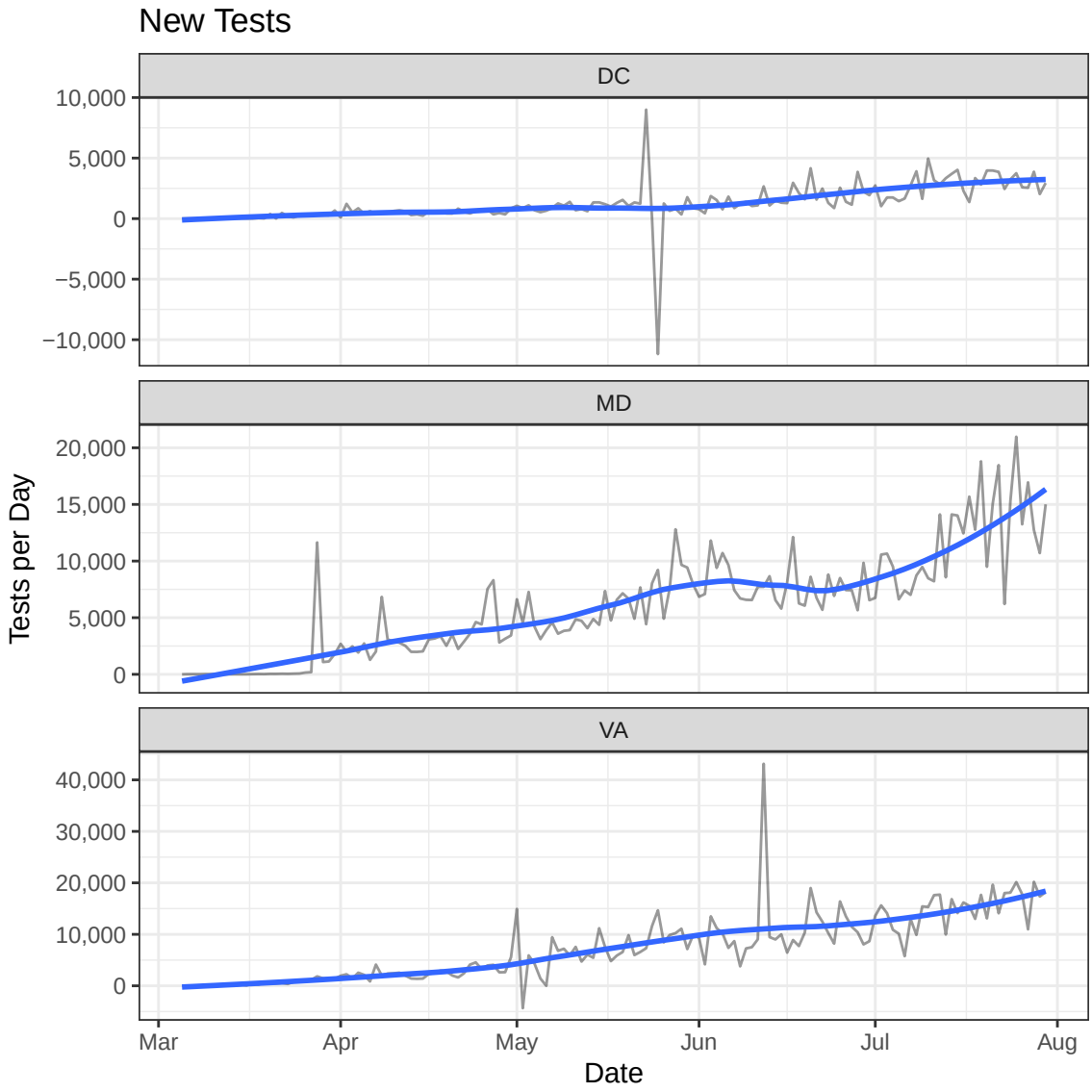

One−Week Change in Daily Cases
DC
MD
VA
100
0
−100
−200
1,000
500
0
−500
−1,000
7−Day Change
Apr
May
Jun
Jul
Aug
Date

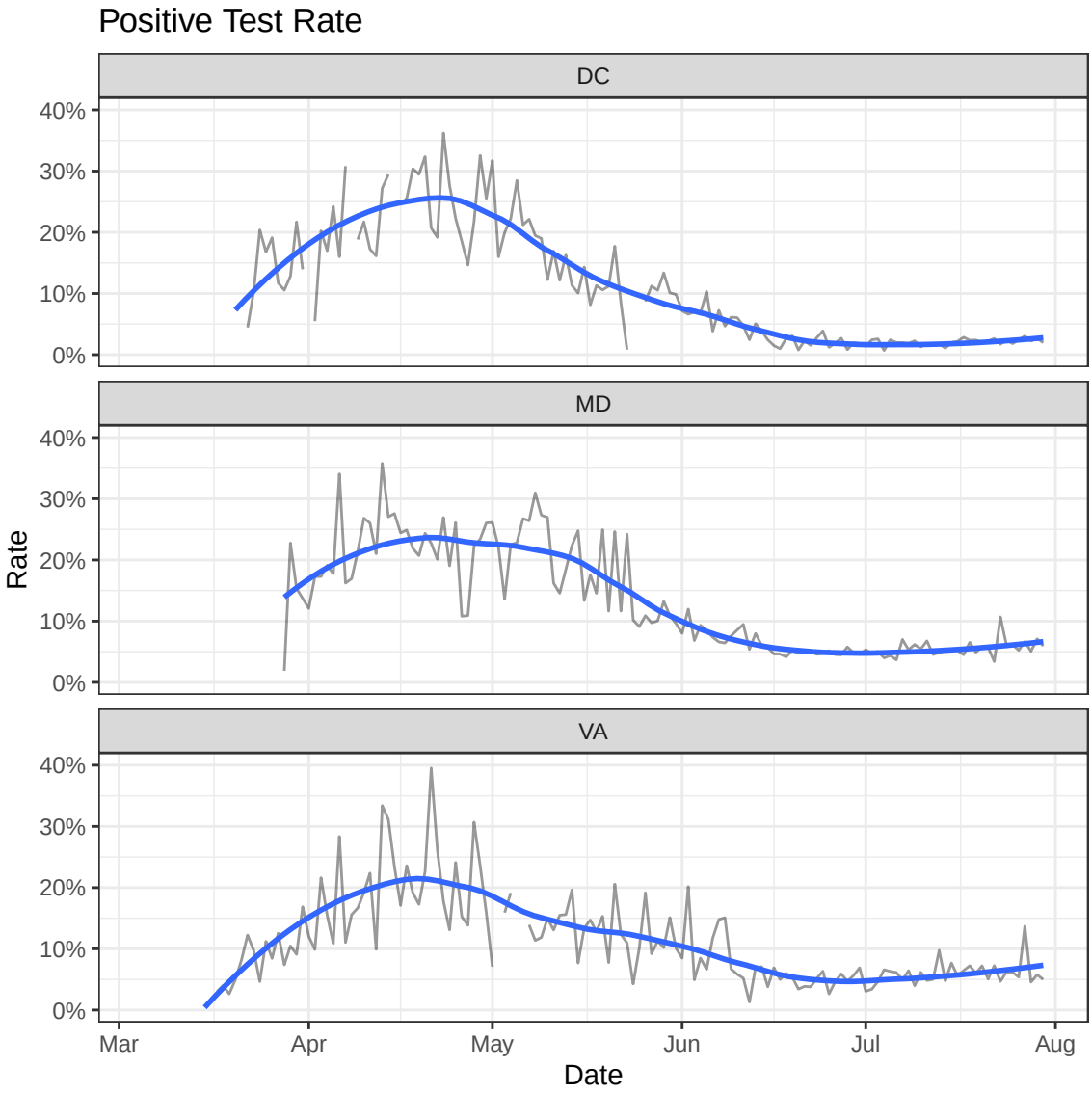

Cases per 1M
1,000
3,162
10,000
31,623
Missing


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
Aug
Date
State
DC
MD
VA


New Tests
DC
MD
VA
10,000
5,000
0
−5,000
−10,000
20,000
15,000
10,000
5,000
0
40,000
30,000
20,000
10,000
0
Tests per Day
Mar
Apr
May
Jun
Jul
Aug
Date


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