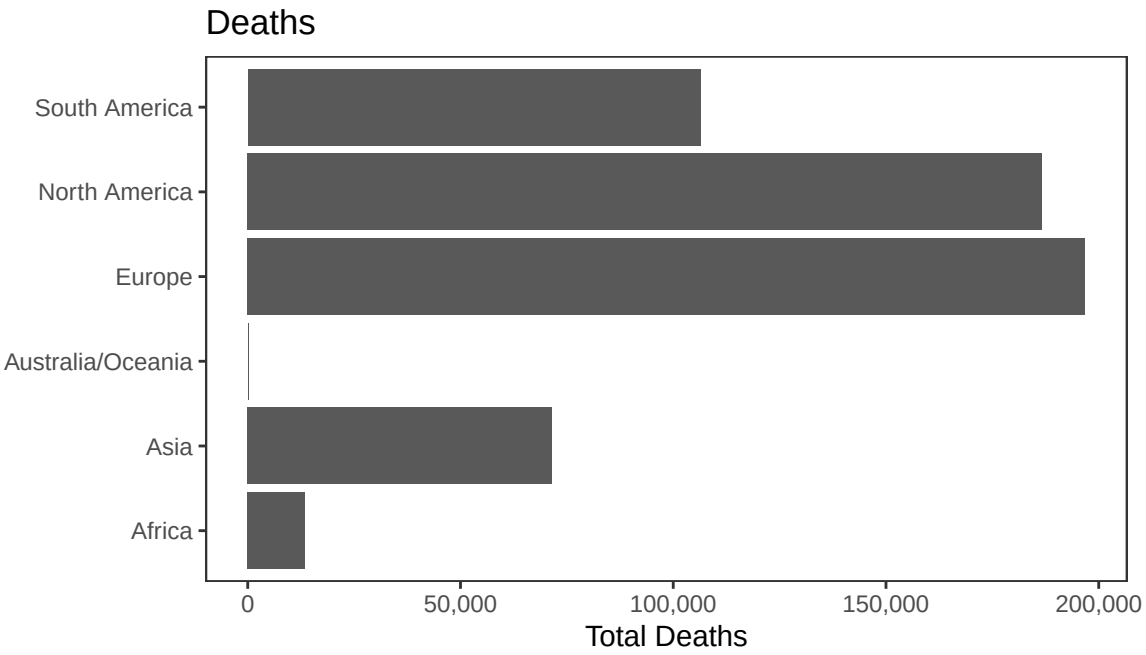
Erik's Covid-19 Chart Pack

Data updated 2020-07-14 18:43:26. 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 13,230,583 confirmed Covid-19 cases and 574,975 deaths worldwide.



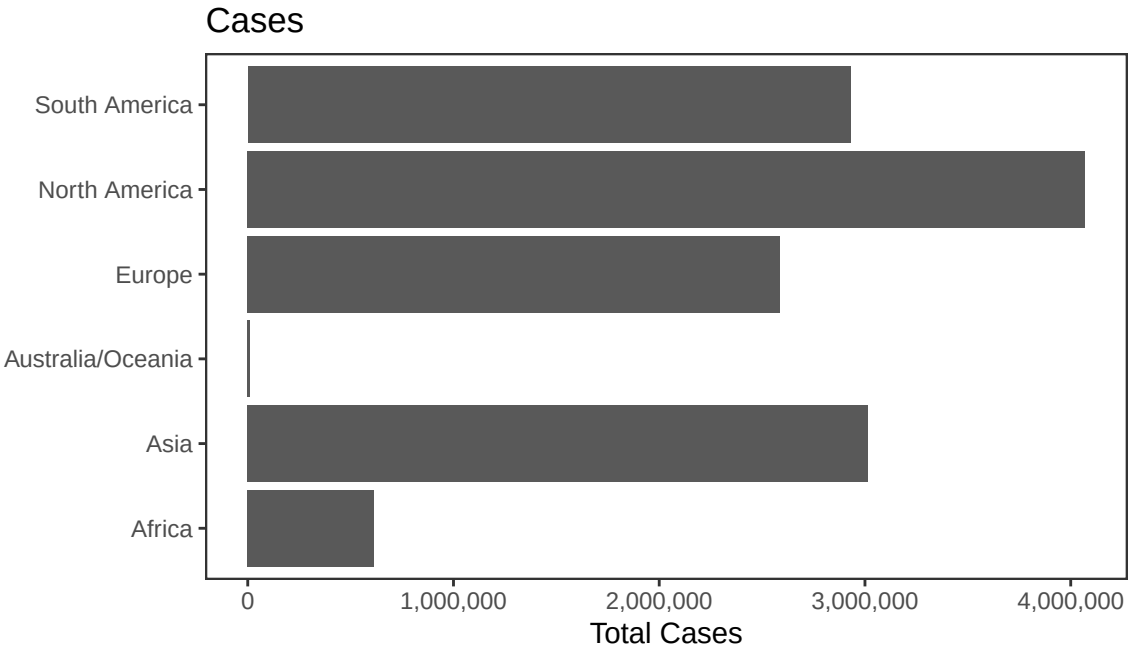
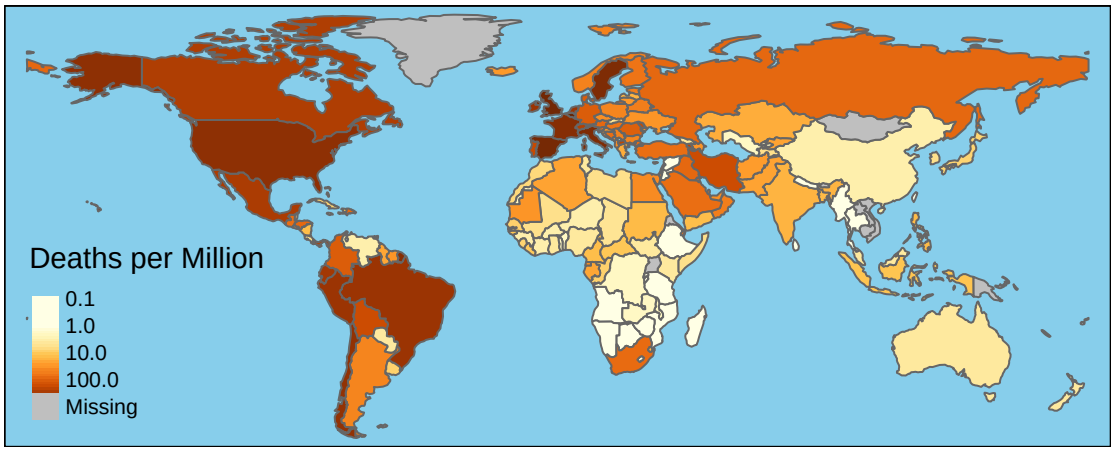
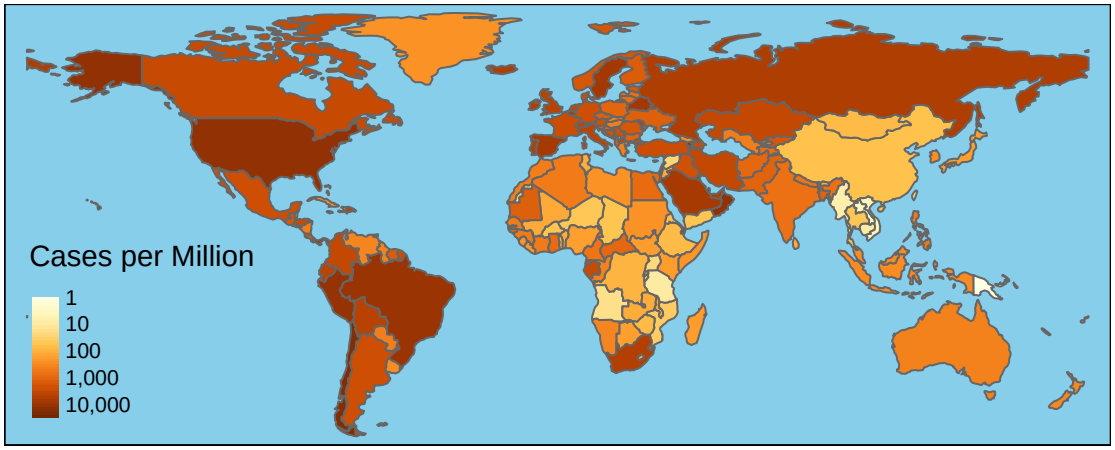
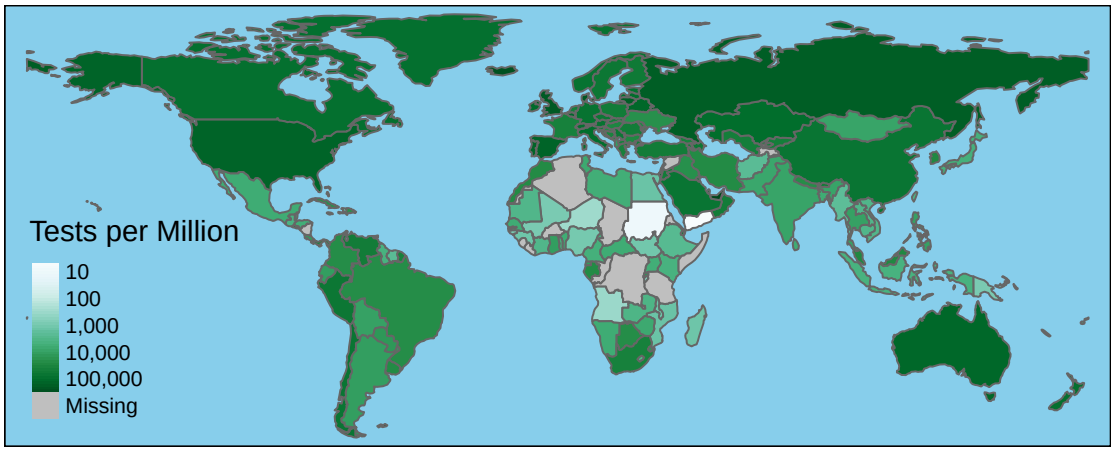


Table 1: Top Countries by Total Cases

Country	Cases	Deaths	New Cases	New Deaths
USA	3,479,483	138,247	65,488	465
Brazil	1,887,959	72,921	21,783	770
India	907,645	23,727	28,179	540
Russia	733,699	11,439	6,537	104
Peru	330,123	12,054	3,797	184
Chile	317,657	7,024	2,616	45
Spain	303,033	28,406	681	1
Mexico	299,750	35,006	4,482	276
UK	290,975	44,830	530	11
South Africa	287,796	4,172	11,554	93
Iran	259,652	13,032	2,349	203
Pakistan	251,625	5,266	2,753	69
Italy	243,230	34,967	169	13
Saudi Arabia	235,111	2,243	2,852	20
Turkey	214,001	5,382	1,008	19
Germany	200,436	9,139	486	5
Bangladesh	186,894	2,391	3,099	39
France	172,377	30,029	288	18
Colombia	154,277	5,455	3,832	148
Canada	108,155	8,790	565	7


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

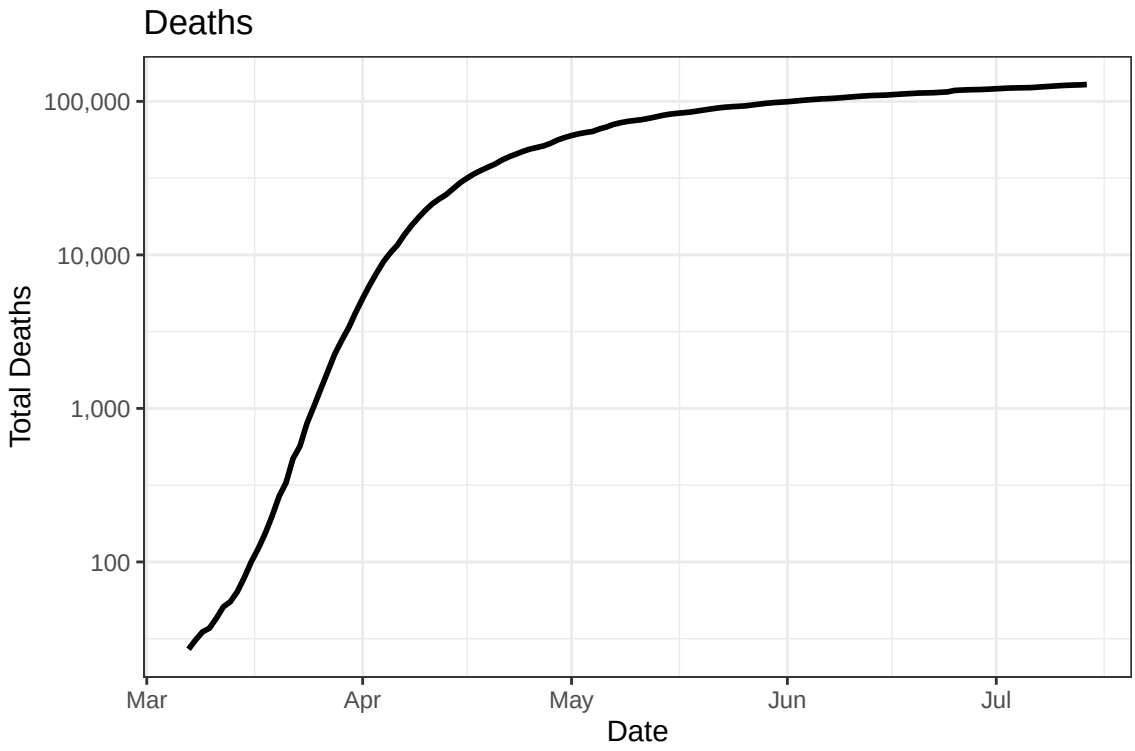
There have been 3,413,313 confirmed Covid-19 cases and 128,740 deaths in the United States.

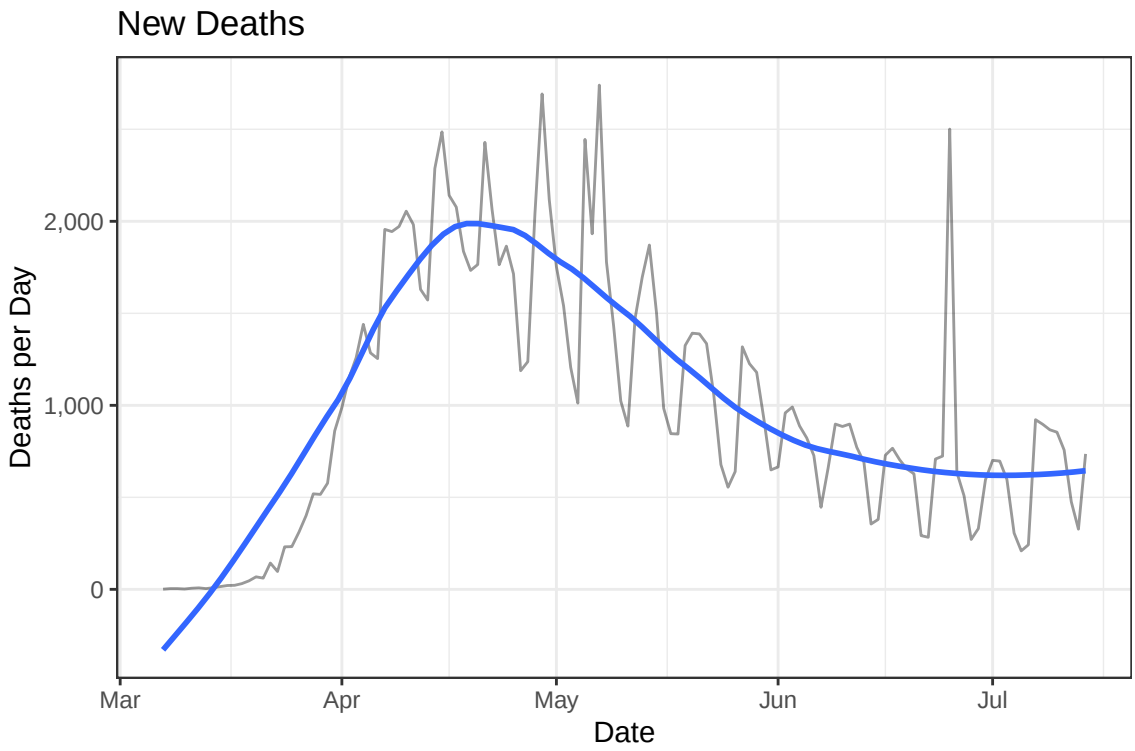
Table 2: U.S. Deaths and Cases over the Last Two Weeks

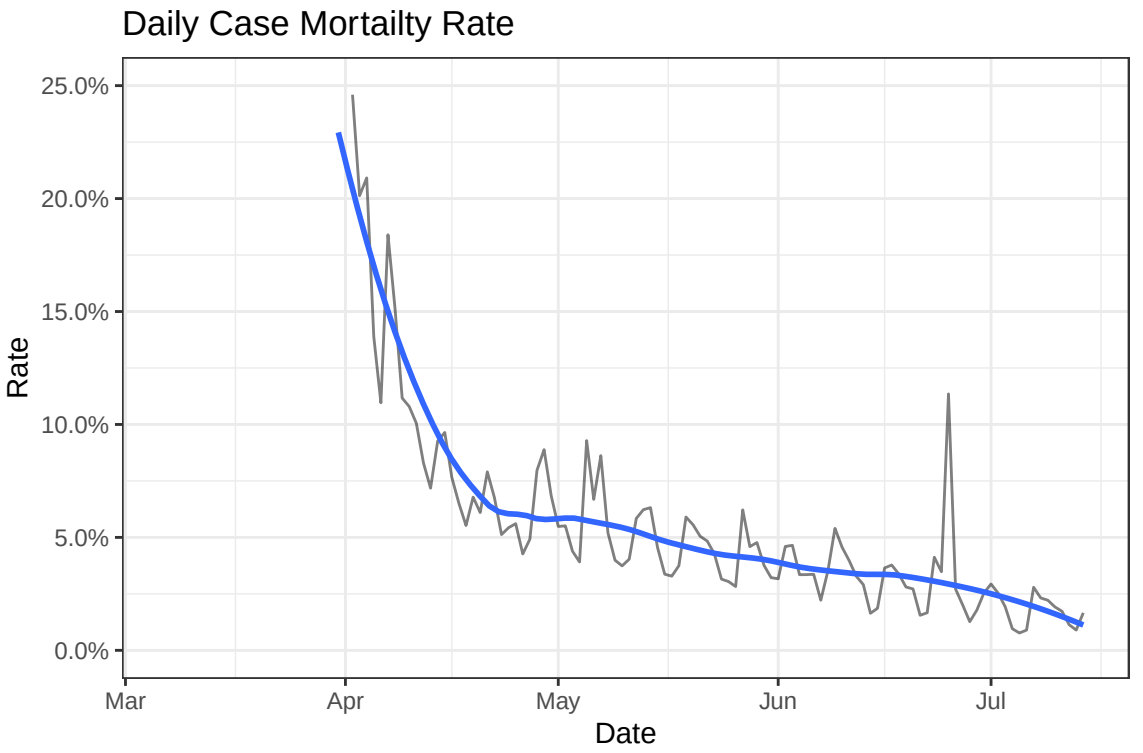
Date	Cases	Deaths	New Cases	New Deaths
2020-07-14	3,413,313	128,740	62,879	736
2020-07-13	3,350,434	128,004	58,465	327
2020-07-12	3,291,969	127,677	60,978	476
2020-07-11	3,230,991	127,201	63,007	757
2020-07-10	3,167,984	126,444	66,645	854
2020-07-09	3,101,339	125,590	58,836	867
2020-07-08	3,042,503	124,723	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	52,091	306
2020-07-03	2,786,467	122,147	56,575	597
2020-07-02	2,729,892	121,550	54,956	697
2020-07-01	2,674,936	120,853	53,007	701

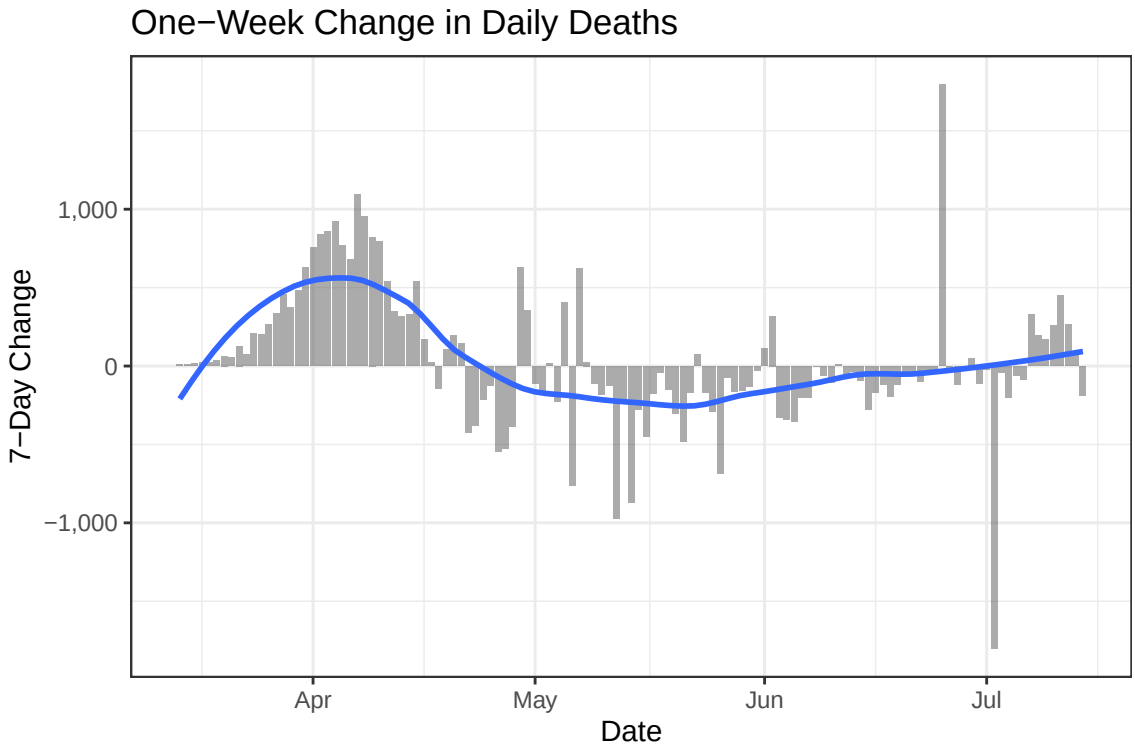
Deaths

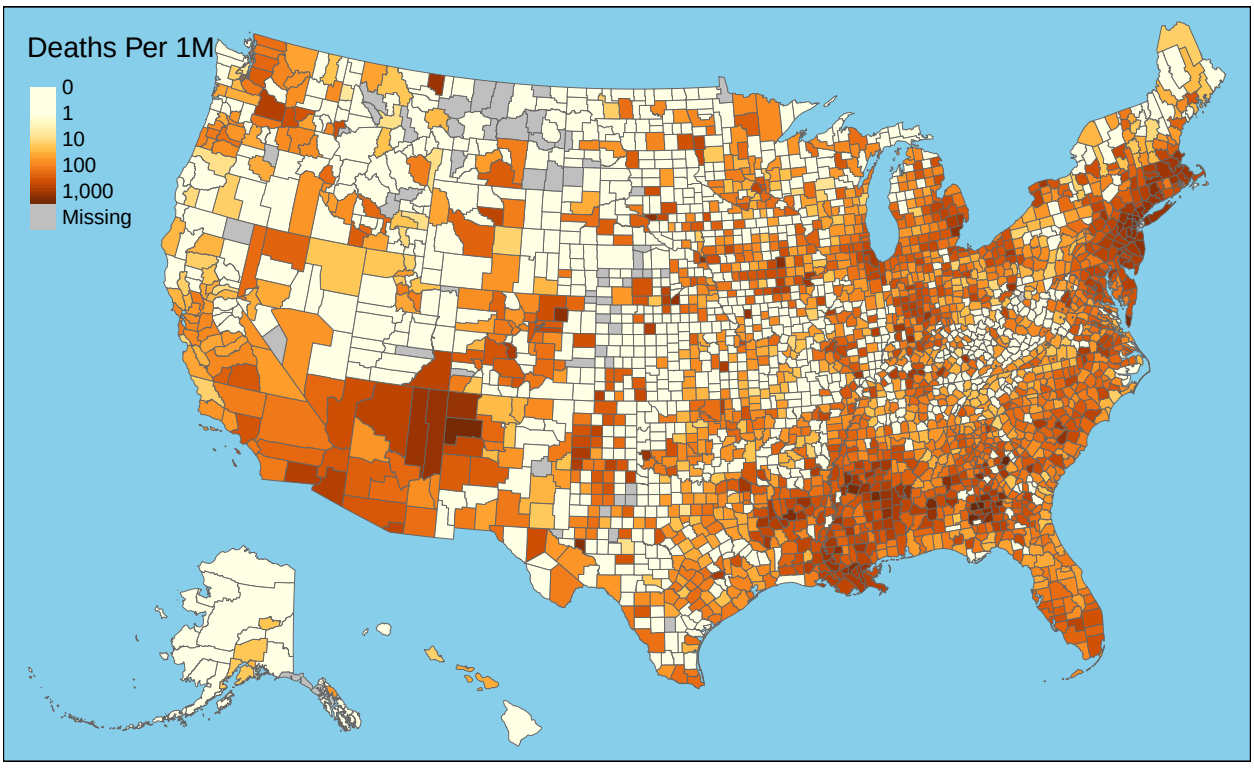
Because the effects of the virus can take several weeks to manifest in patients, deaths are a lagging indicator of contagion, but they may be a more reliable than case counts, which are a function of both the prevalence of the disease and the rate of testing. The case mortality rate is a very crude indicator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





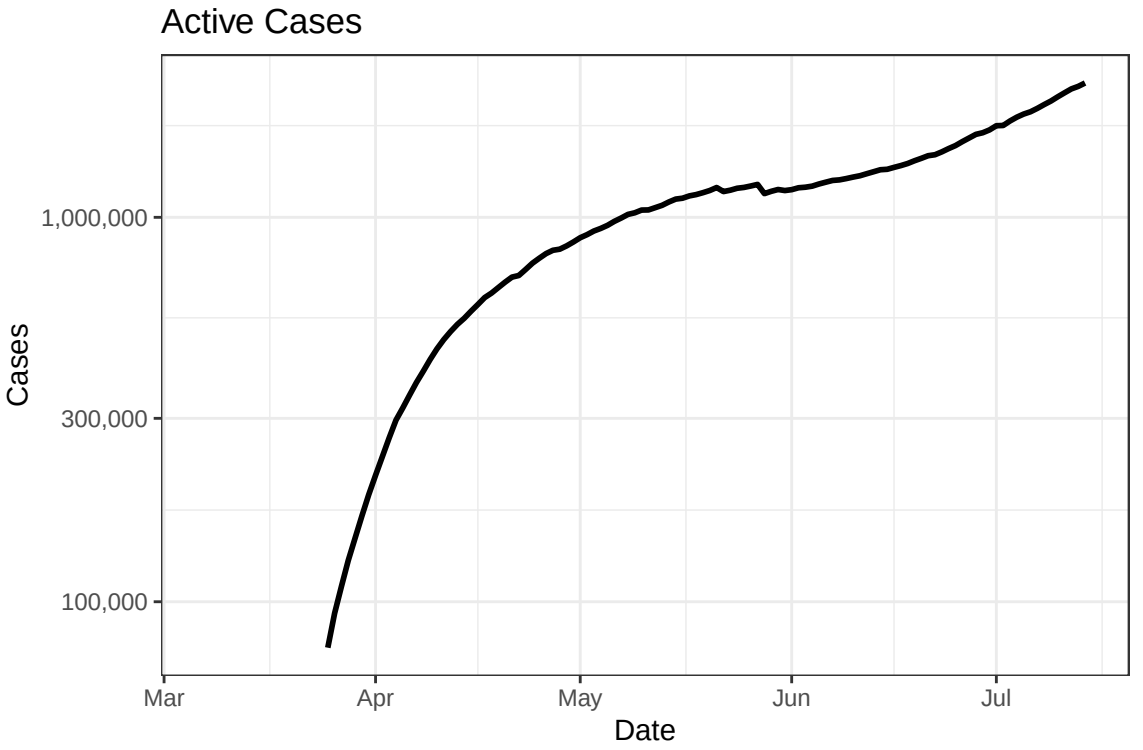

Daily Case Mortailty Rate
25.0%
20.0%
15.0%
10.0%
5.0%
0.0%
Rate
Mar
Apr
May
Jun
Jul
Date

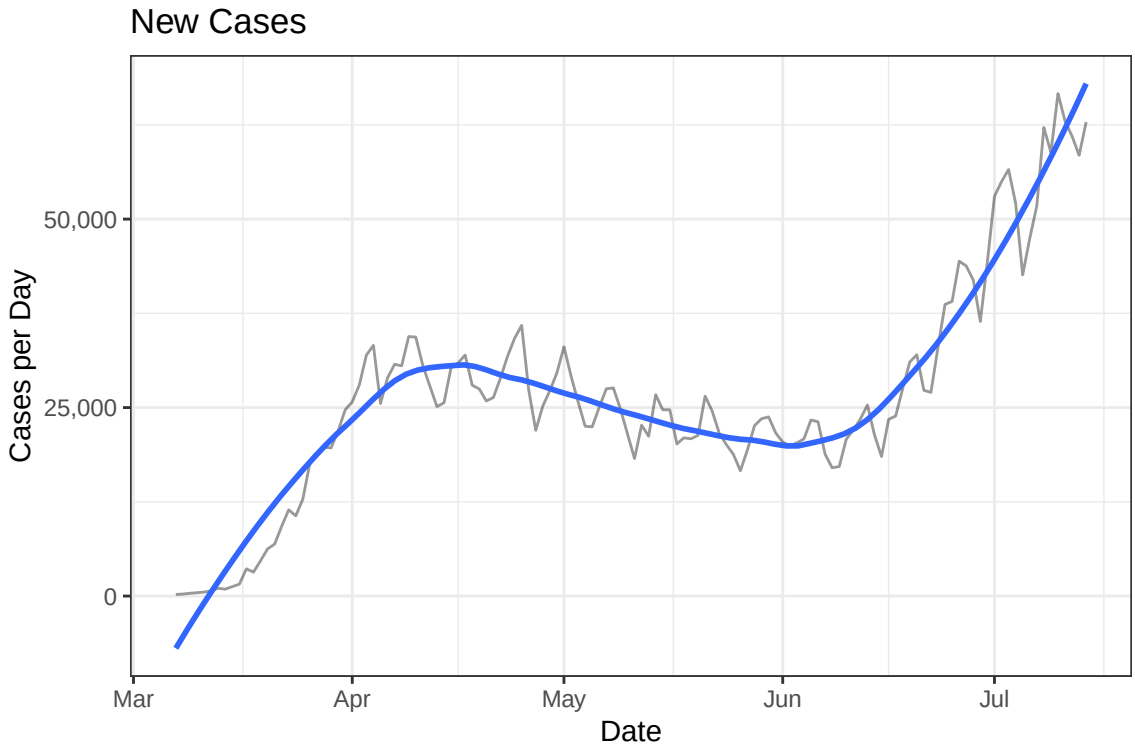

One−Week Change in Daily Deaths
1,000
0
−1,000
7−Day Change
Apr
May
Jun
Jul
Date

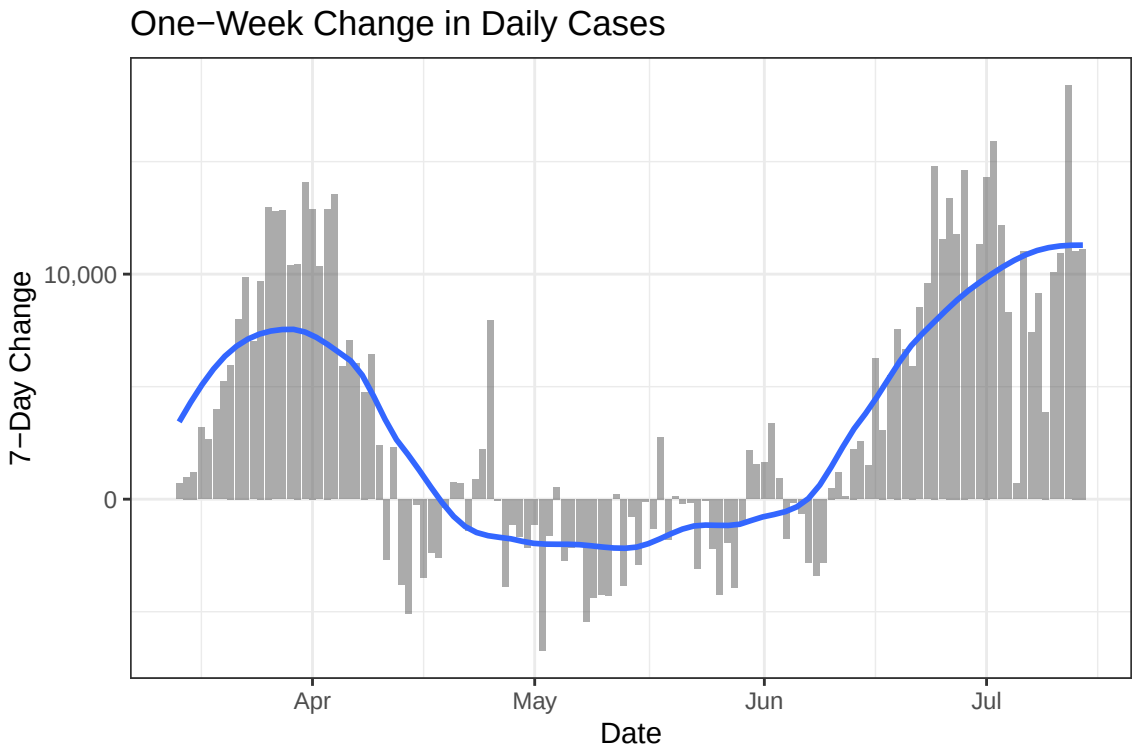

Deaths Per 1M
0
1
10
100
1,000
Missing

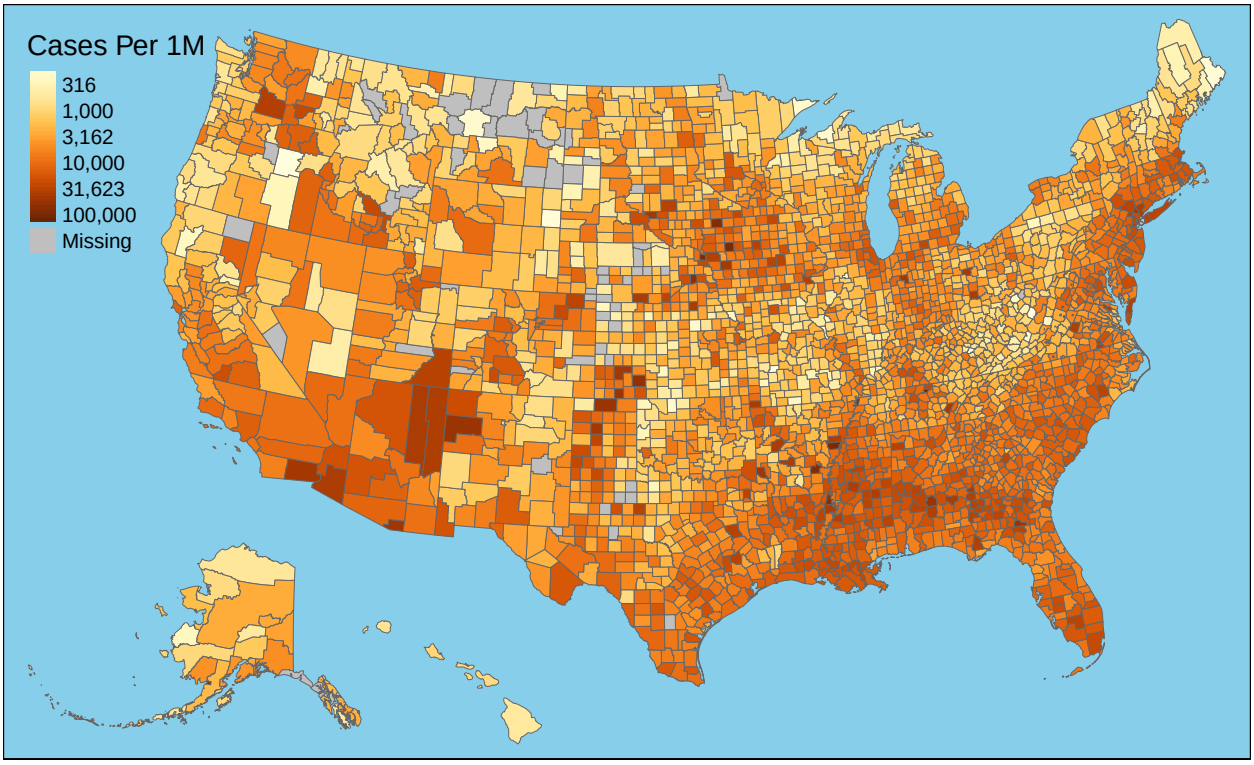
Cases

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



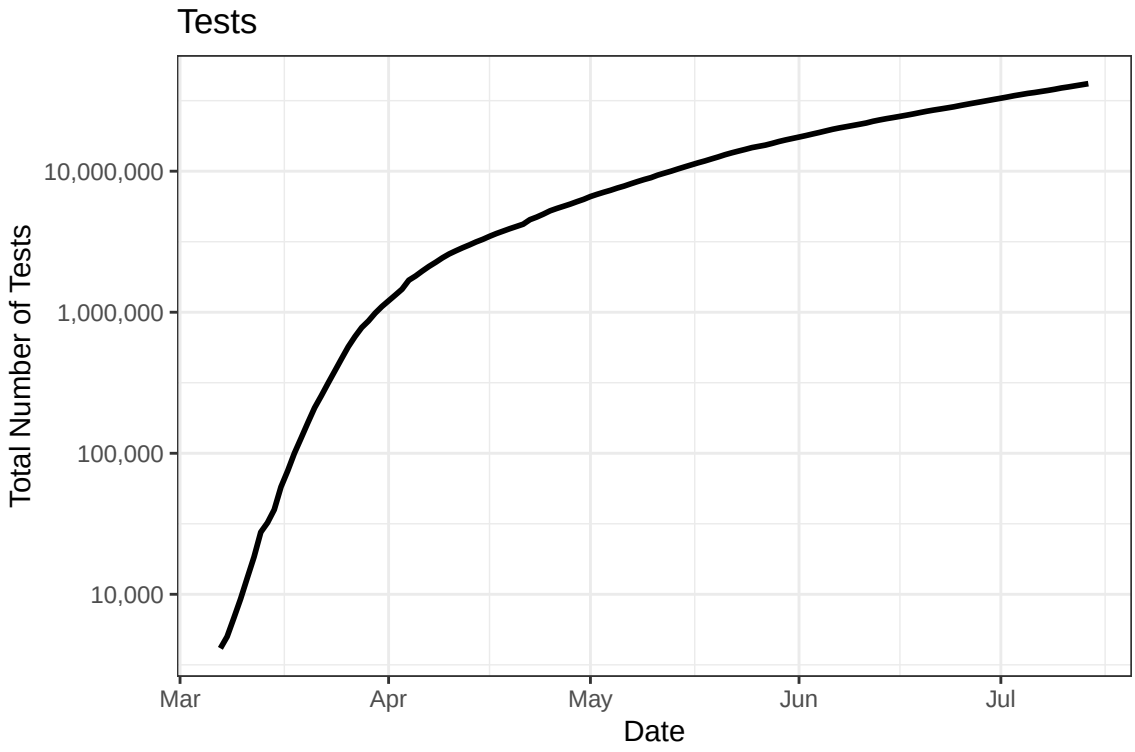


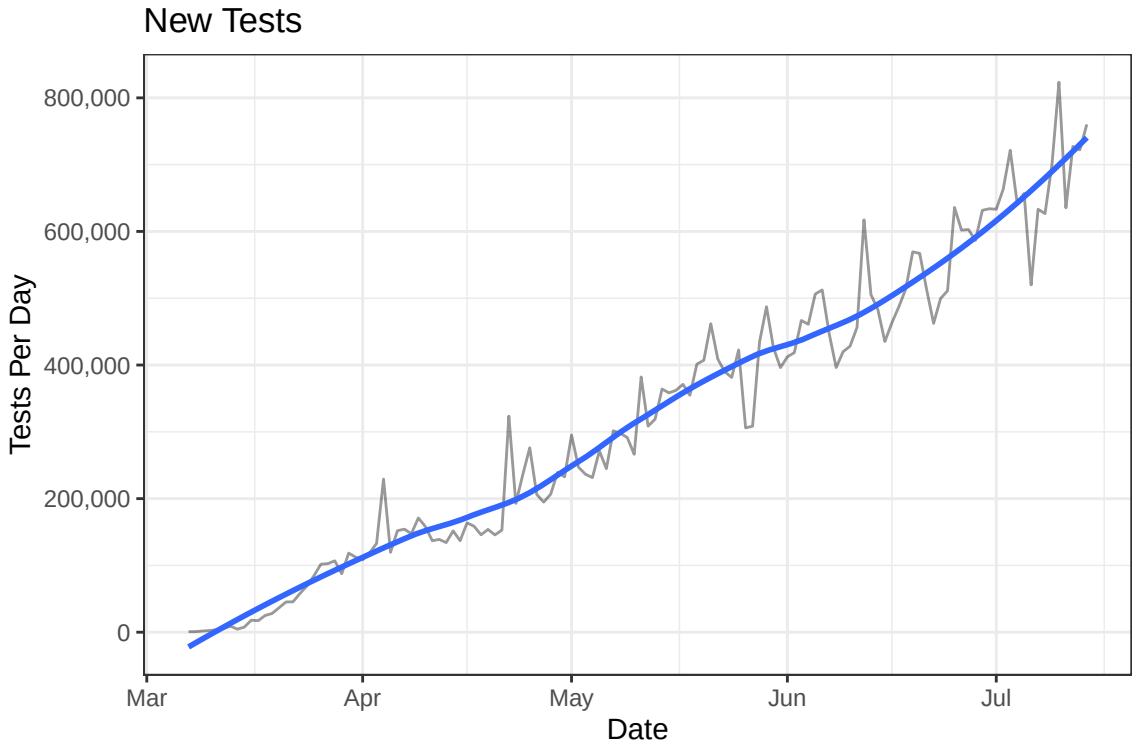

One−Week Change in Daily Cases
7−Day Change
10,000
0
Apr
May
Jun
Jul
Date

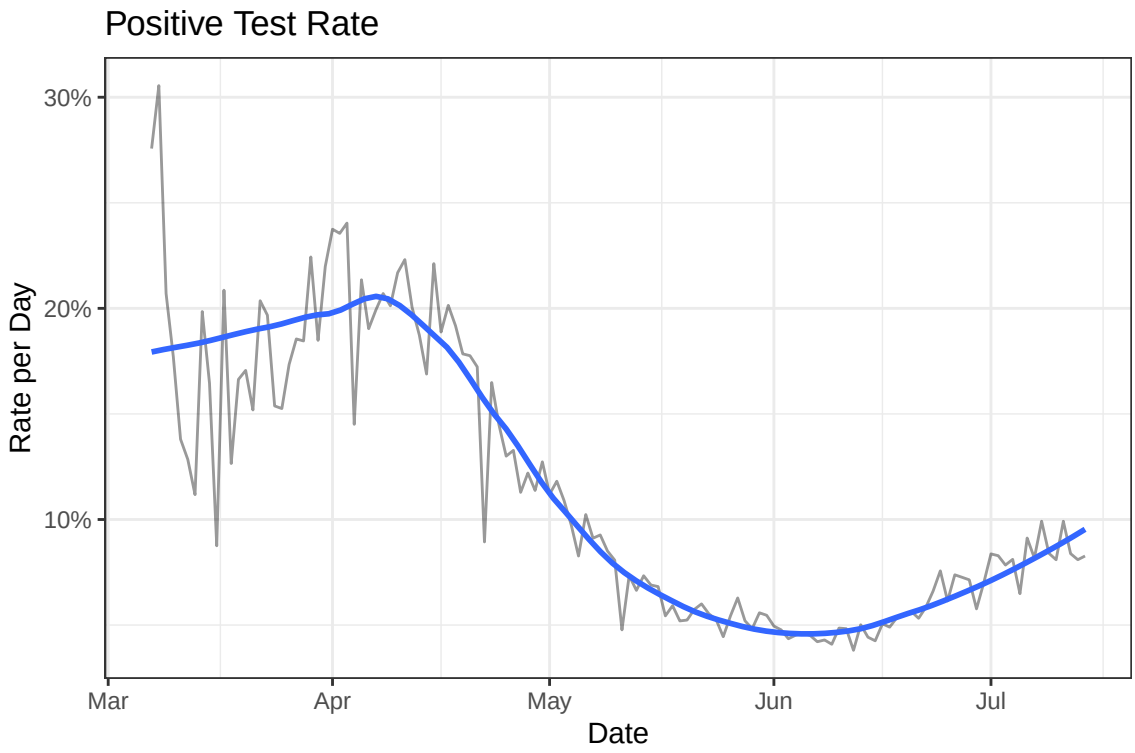

Cases Per 1M
316
1,000
3,162
10,000
31,623
100,000
Missing

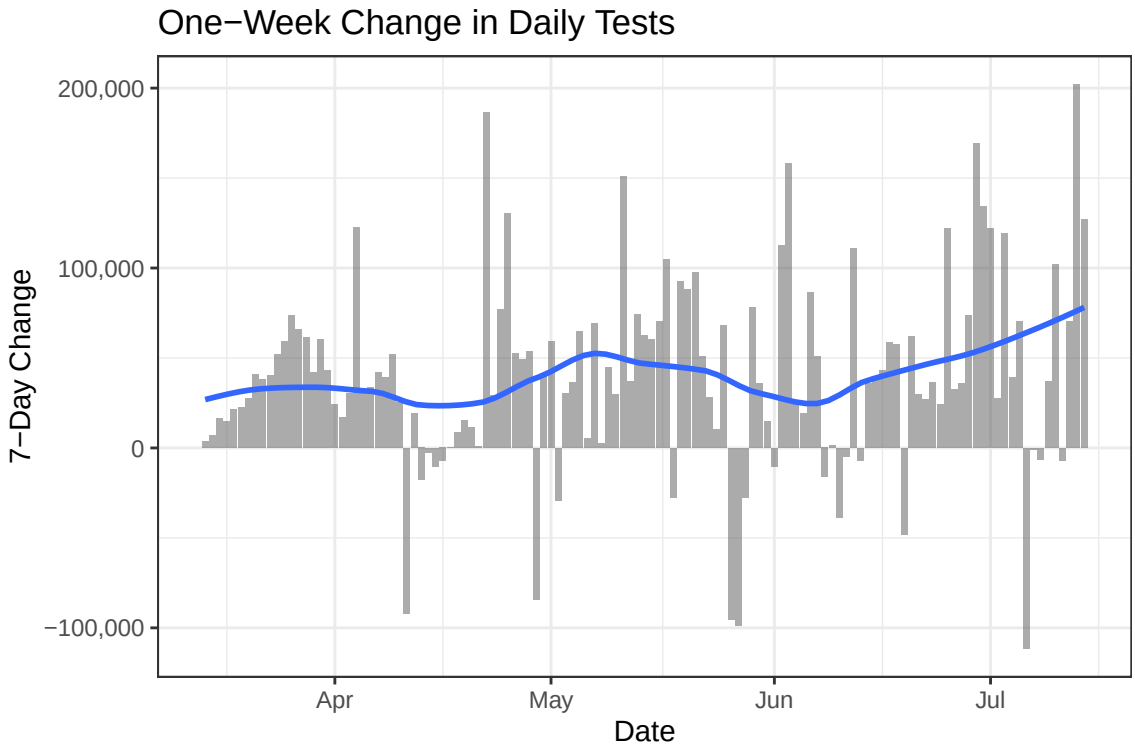
Testing

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.





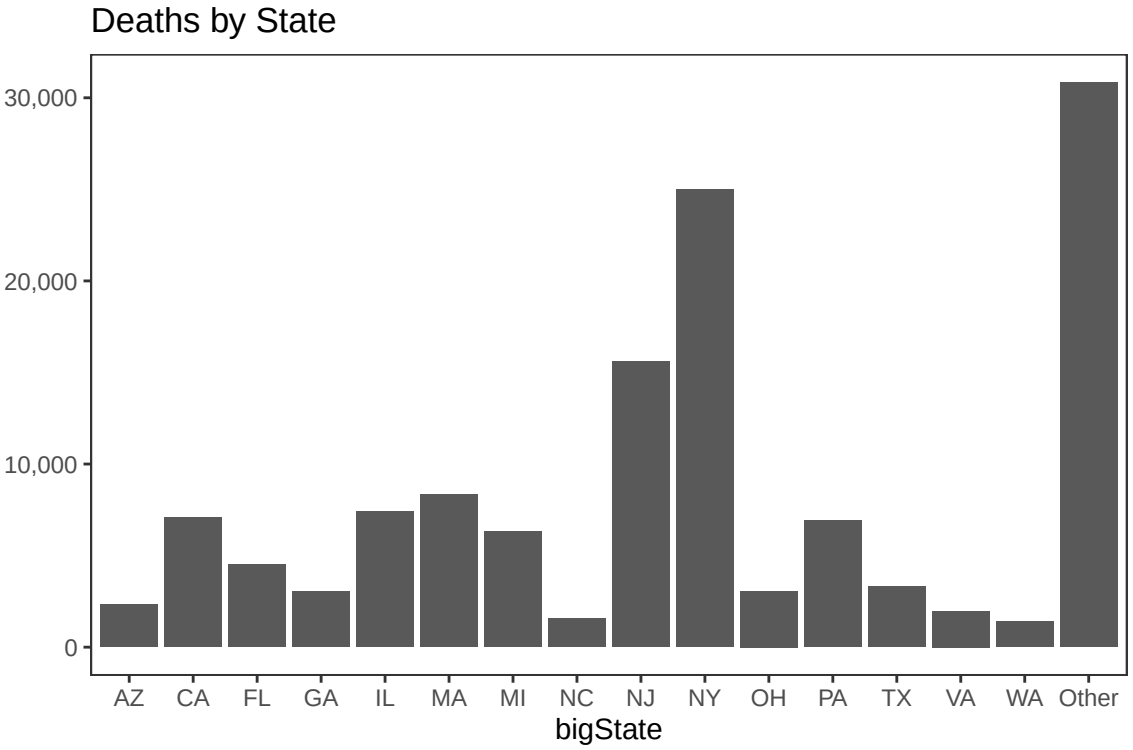

Positive Test Rate
30%
20%
10%
Rate per Day
Mar
Apr
May
Jun
Jul
Date

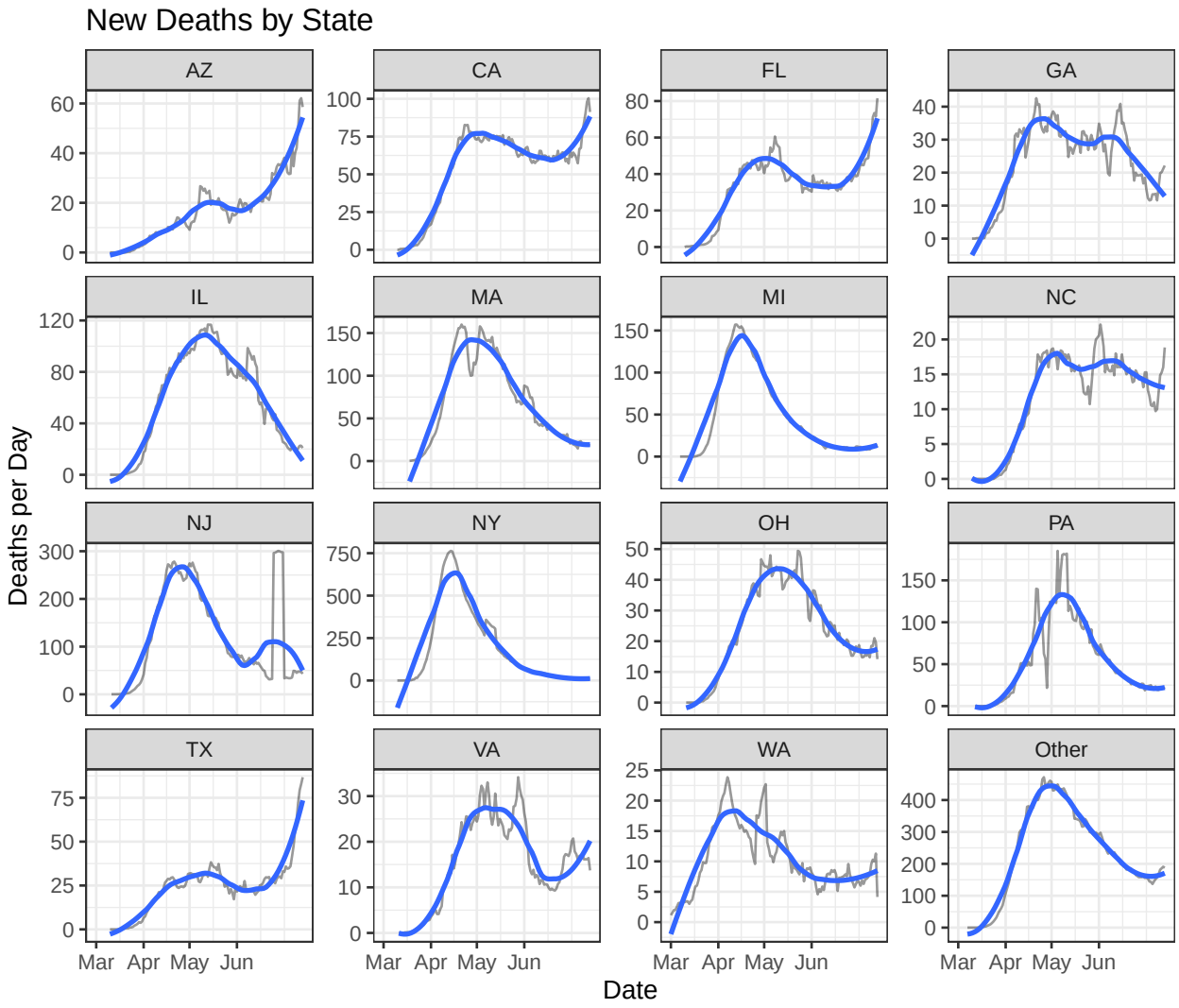

One−Week Change in Daily Tests
200,000
100,000
0
−100,000
7−Day Change
Apr
May
Jun
Jul
Date

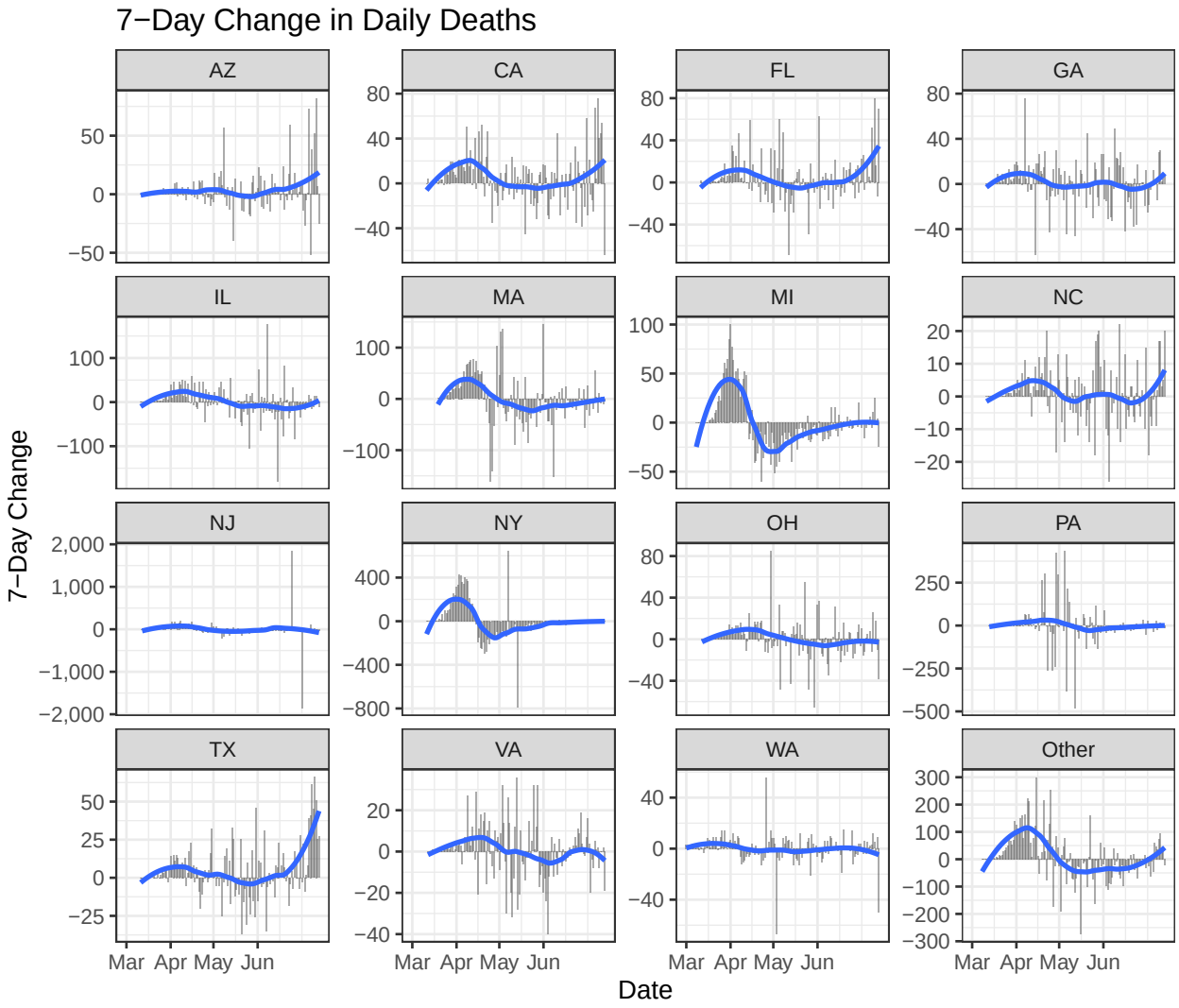
State Data

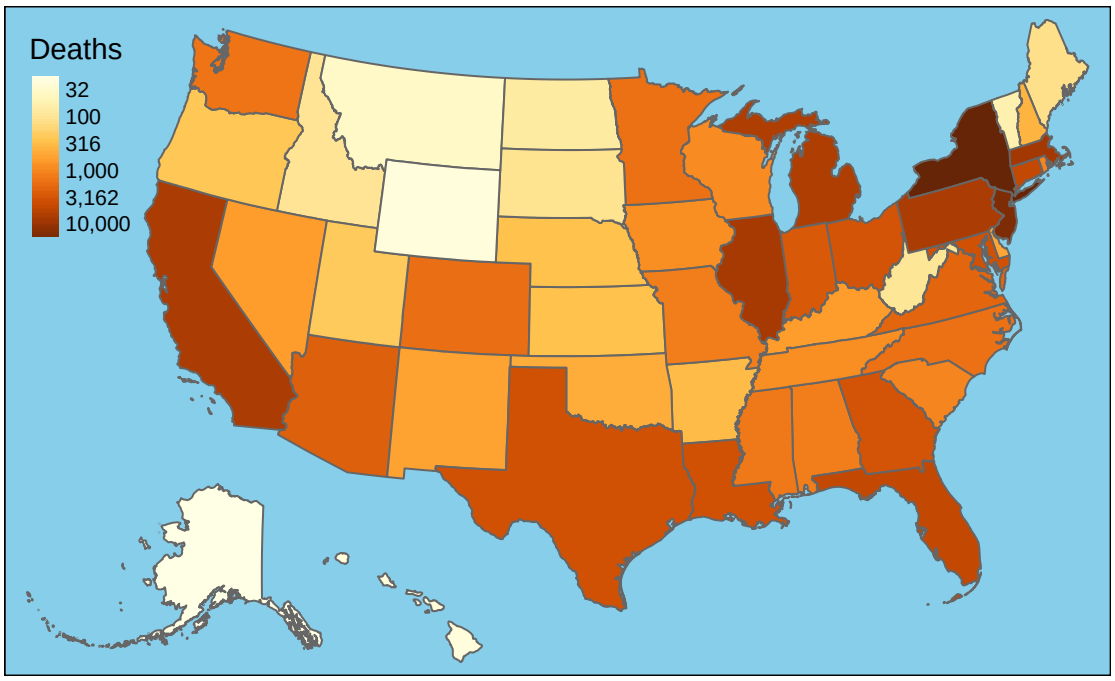
This section summarizes state-level data. Most data are reported for the largest 15 states by population, which account for NaN percent of the total U.S. population.

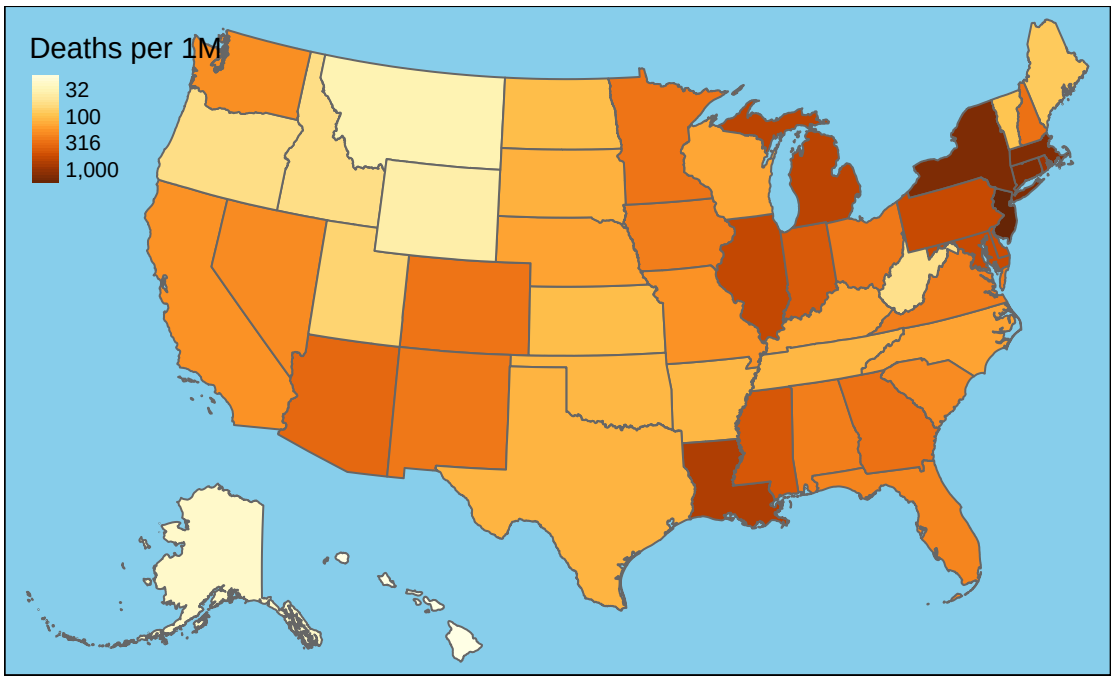
Deaths



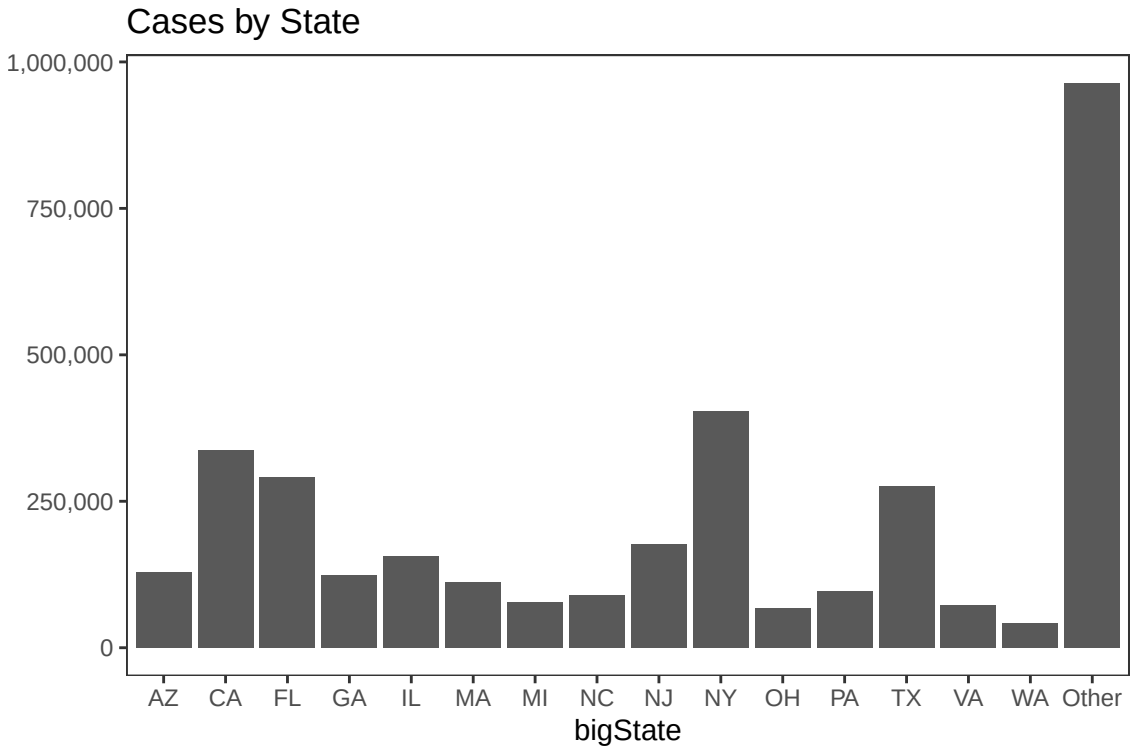

New Deaths by State
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
Deaths per Day
Mar
Apr
May
Jun
Date

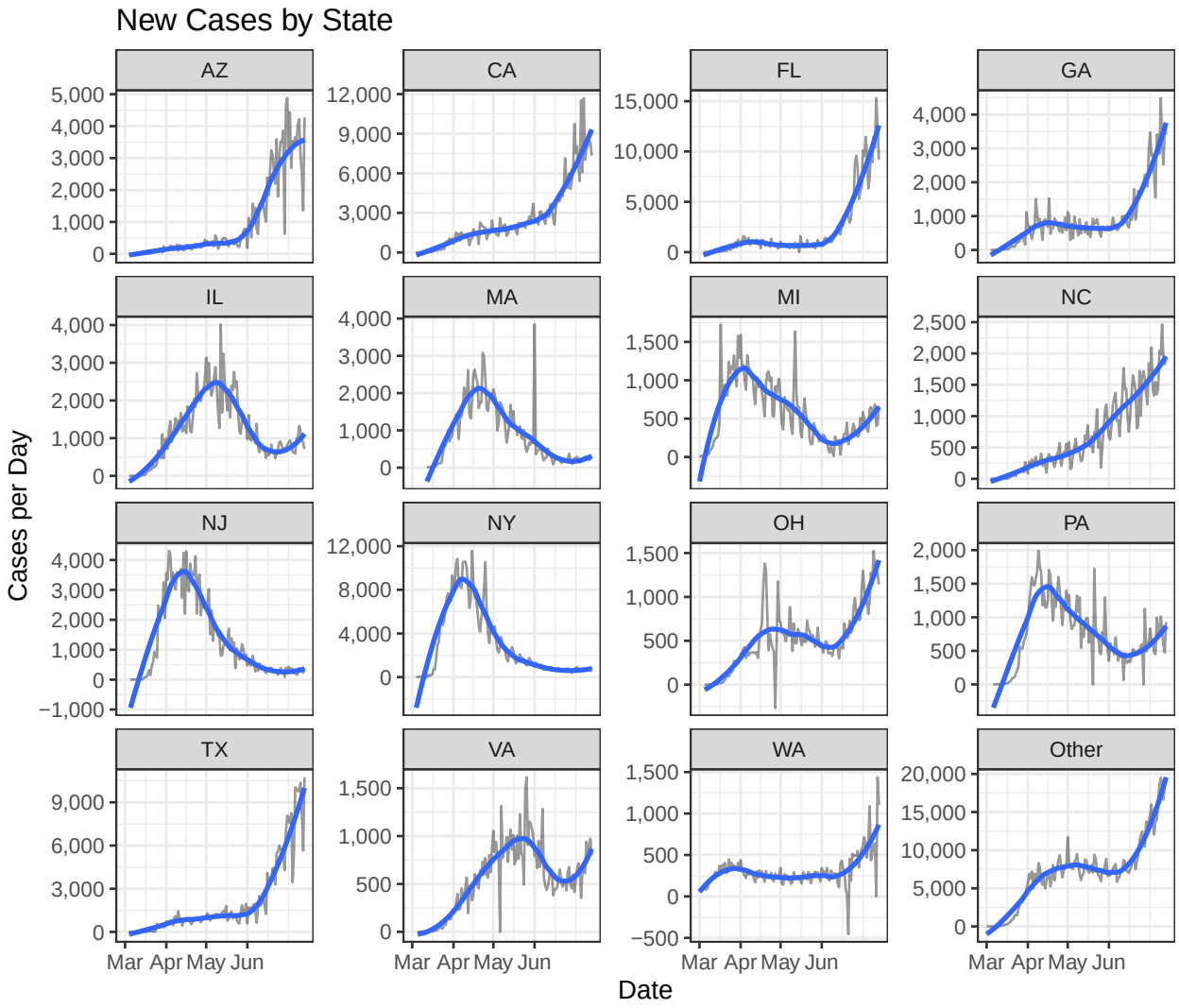

7−Day Change in Daily Deaths
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
7−Day Change
Mar Apr May Jun
Date

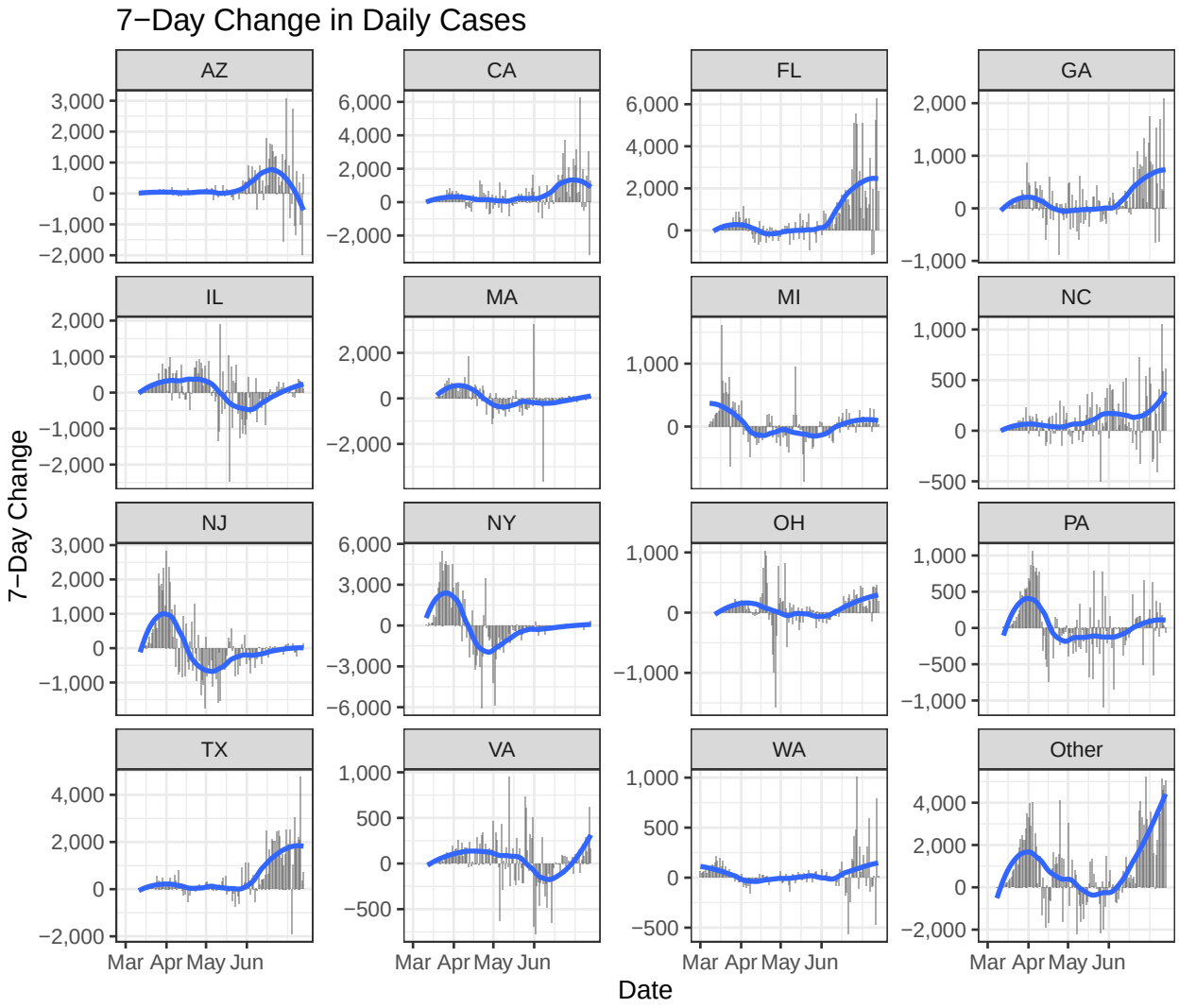

Deaths
32
100
316
1,000
3,162
10,000

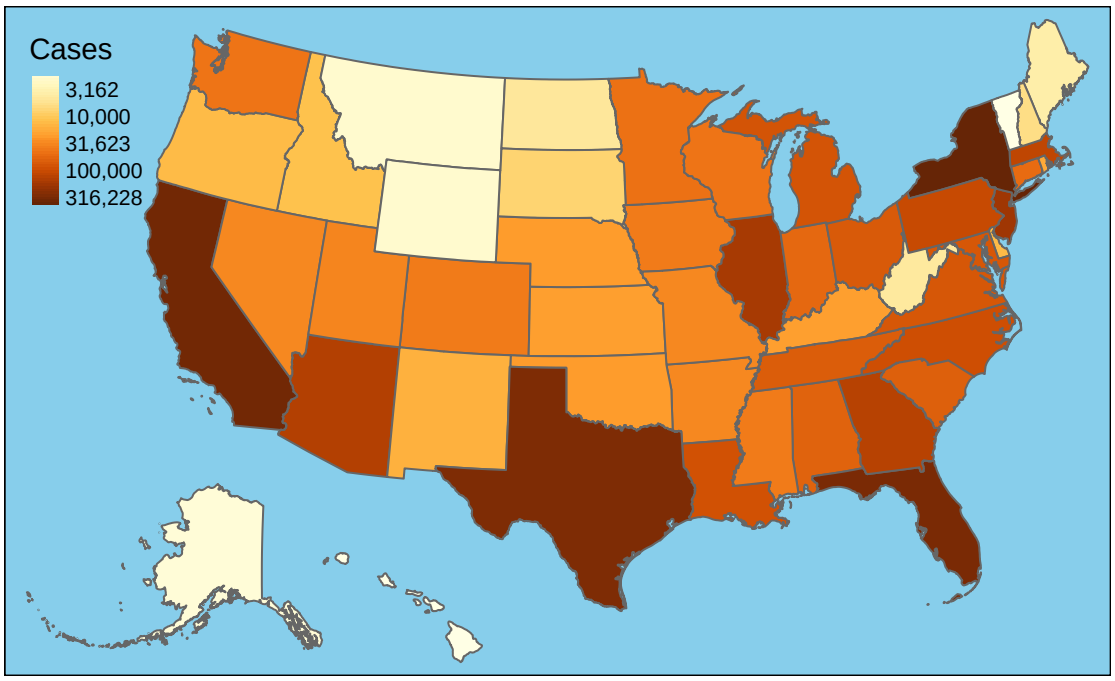

Deaths per 1M
32
100
316
1,000

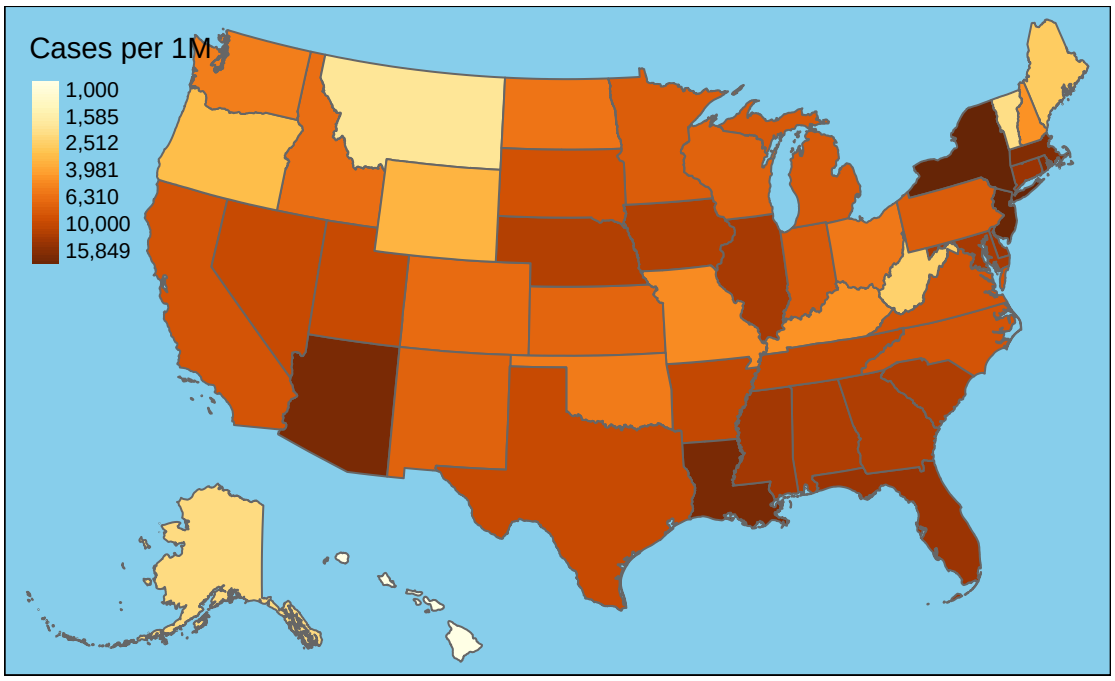
Cases


Cases by State
1,000,000
750,000
500,000
250,000
0
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
bigState

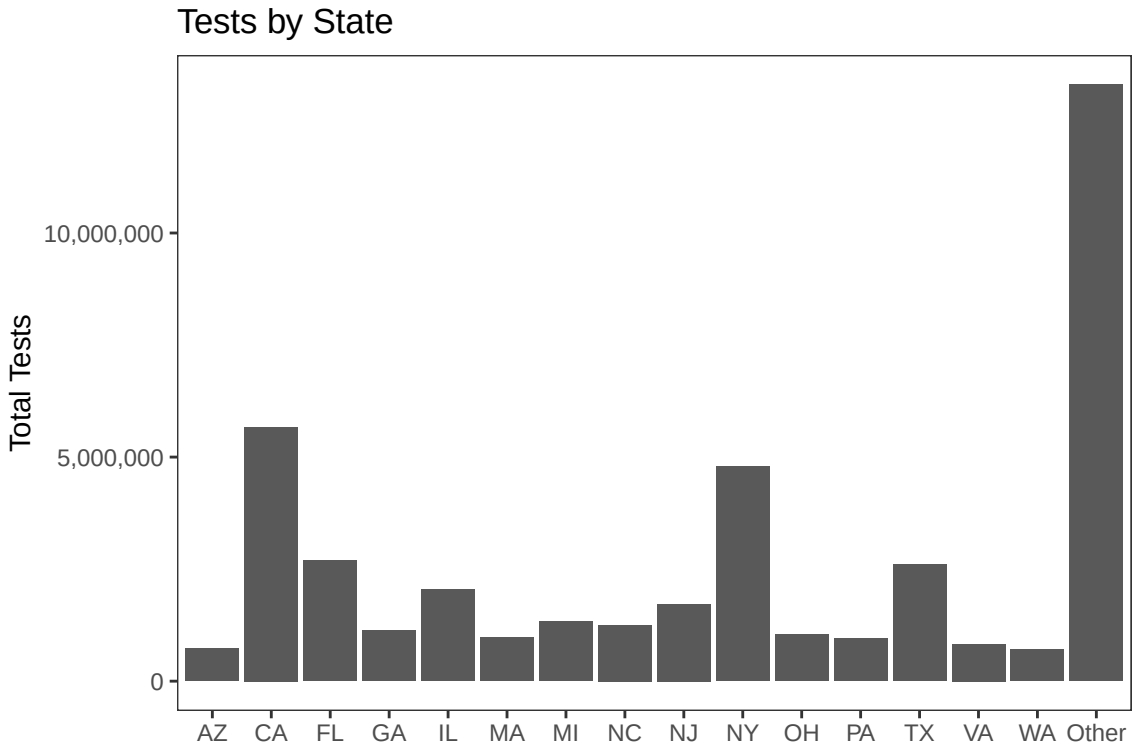

New Cases by State
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
Cases per Day
Date
Mar
Apr
May
Jun

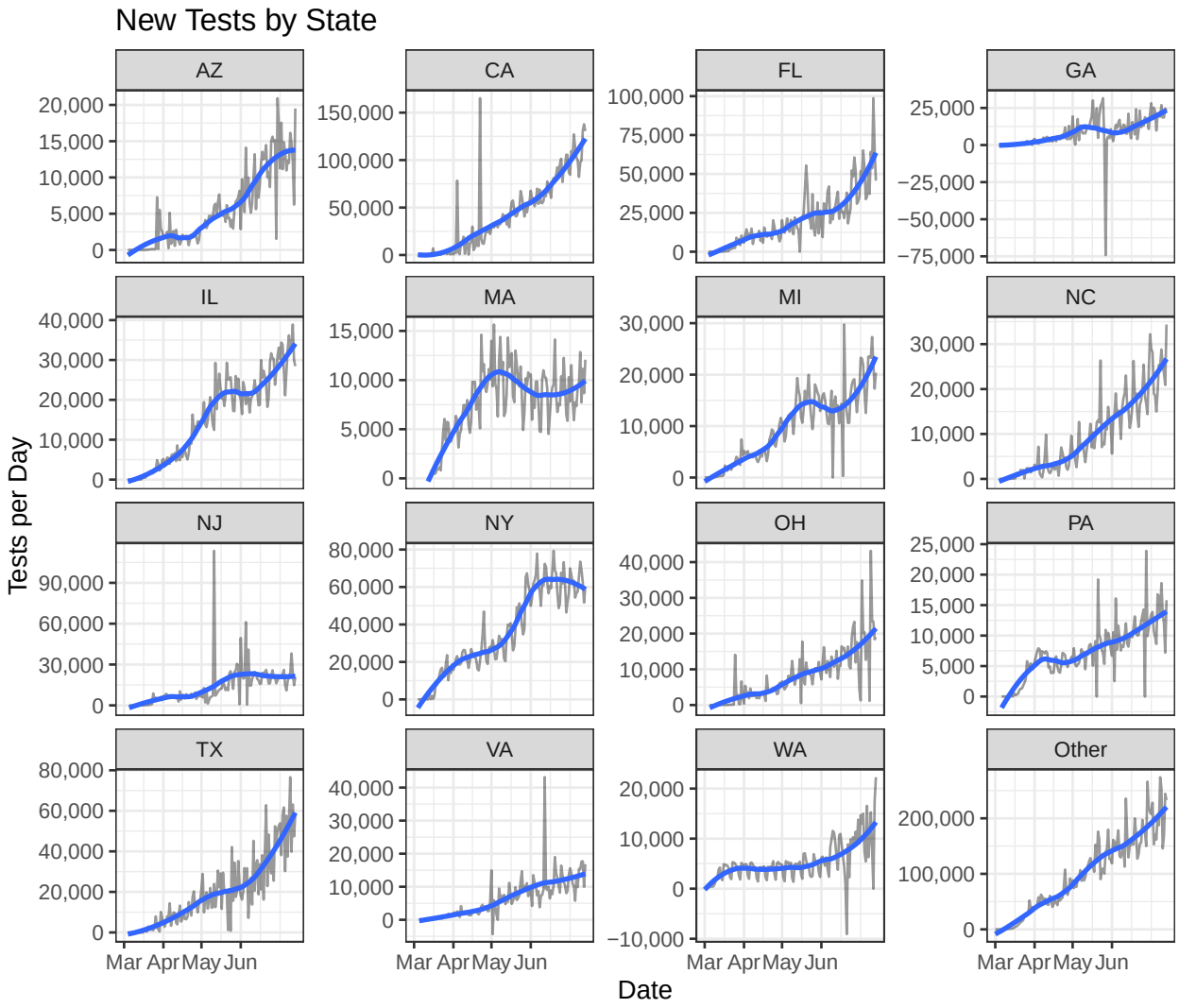

7−Day Change in Daily Cases
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
7−Day Change
Mar Apr May Jun
Date

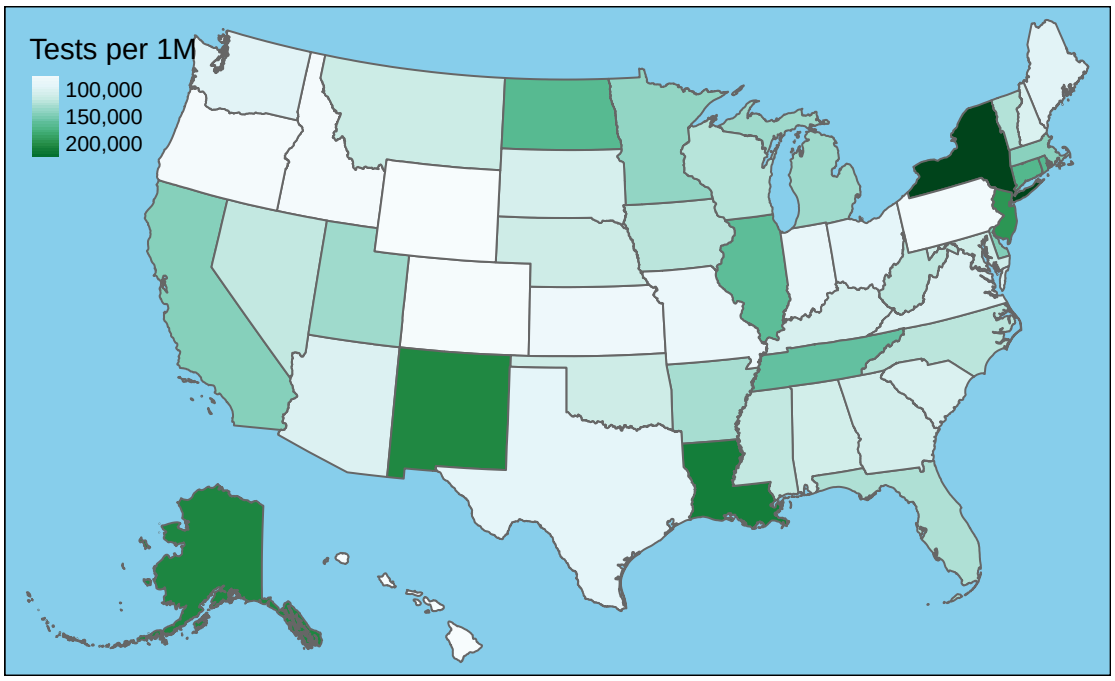

Cases
3,162
10,000
31,623
100,000
316,228

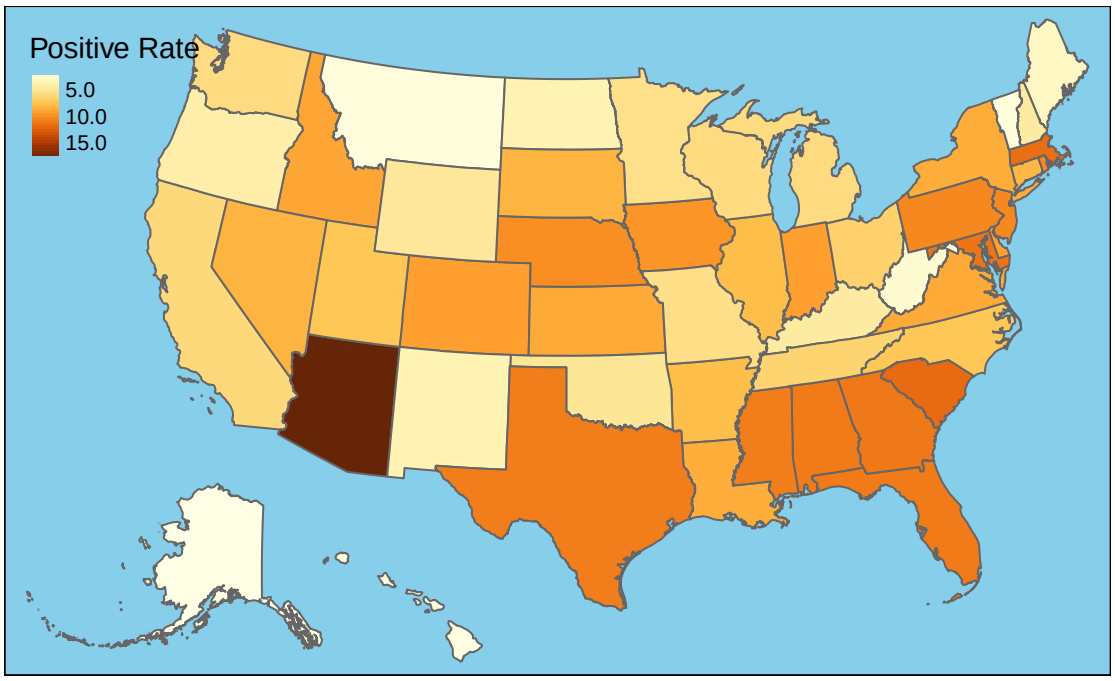

Cases per 1M
1,000
1,585
2,512
3,981
6,310
10,000
15,849

Testing

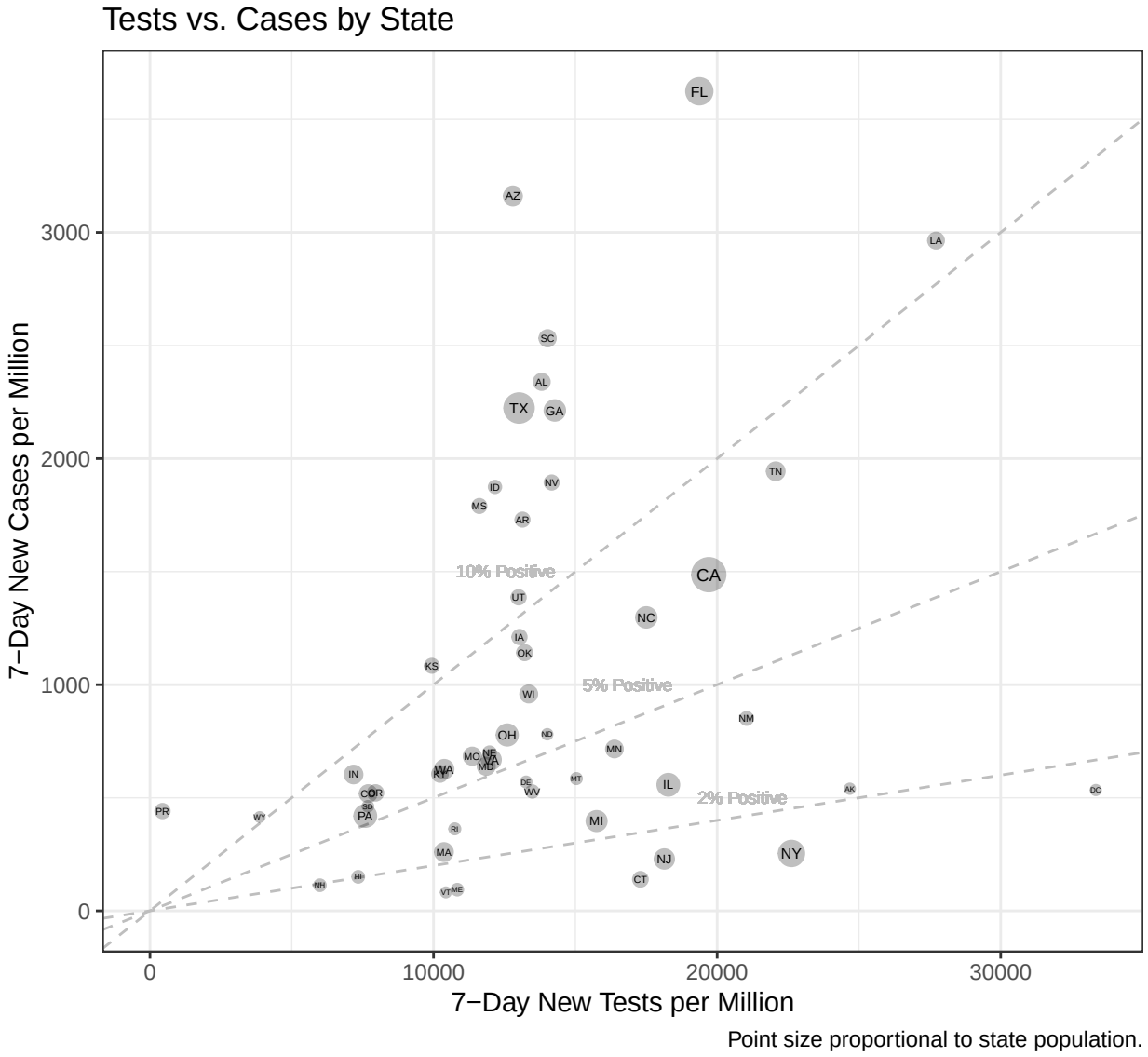

Tests by State
Total Tests
10,000,000
5,000,000
0
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other


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


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.



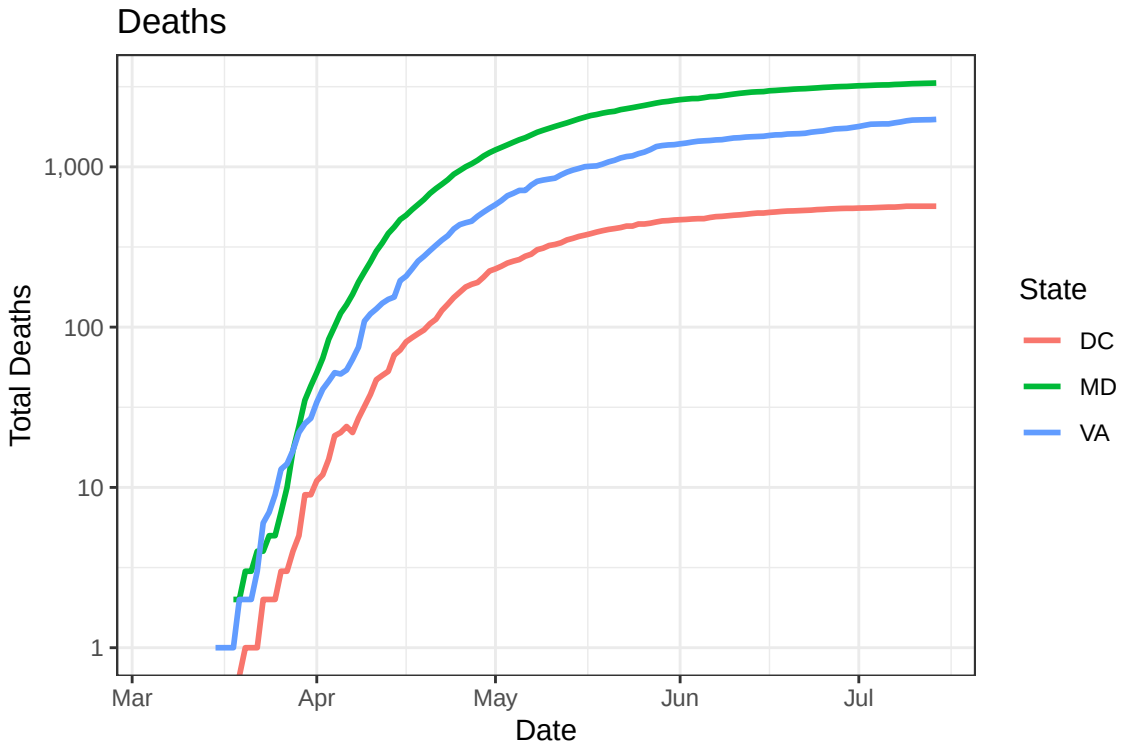
Local Data

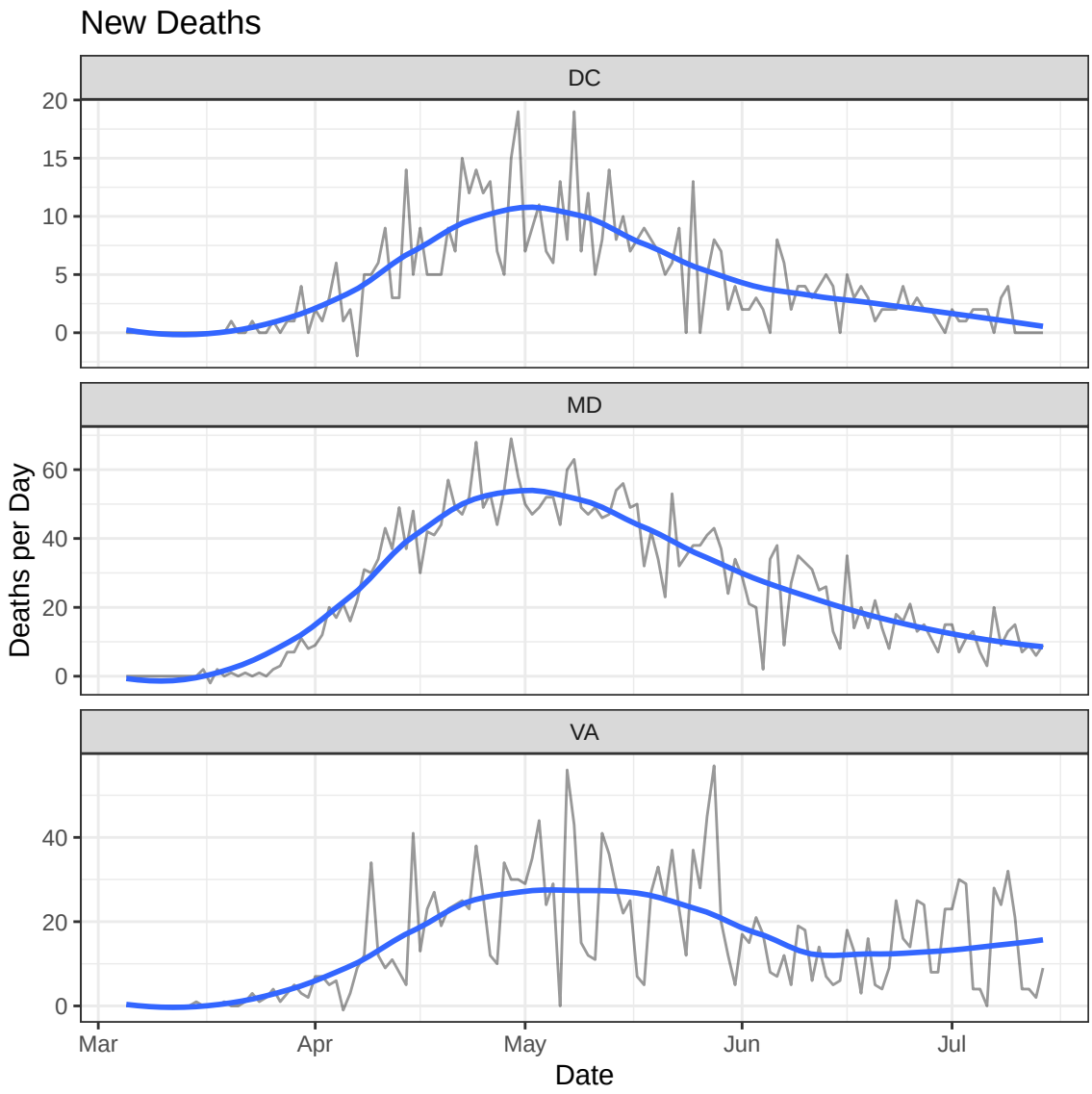
The following charts and tables present mortality, case, and testing data for the Washington DC metropolitan area and adjacent states.

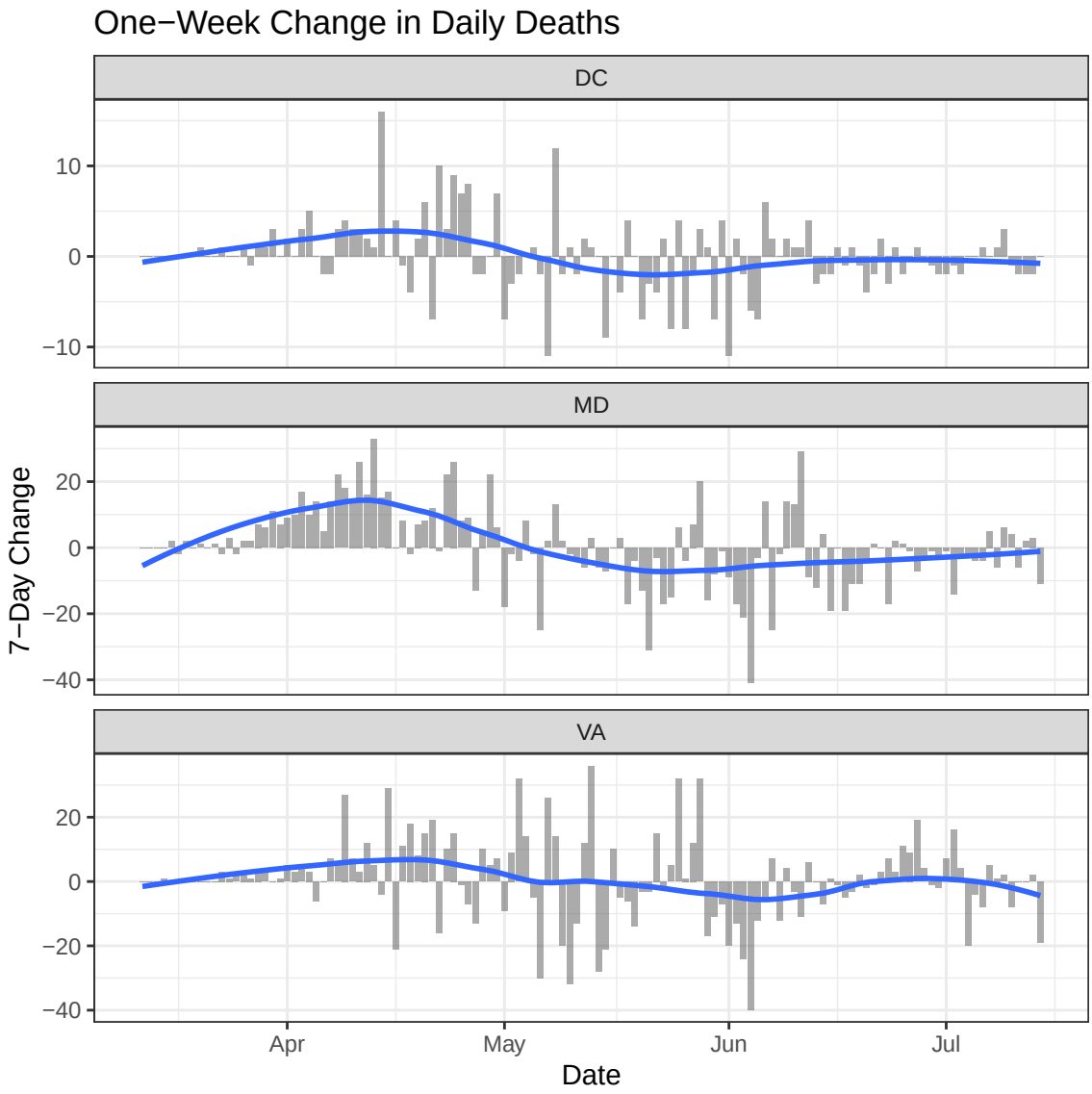
Table 3: Latest Local Data

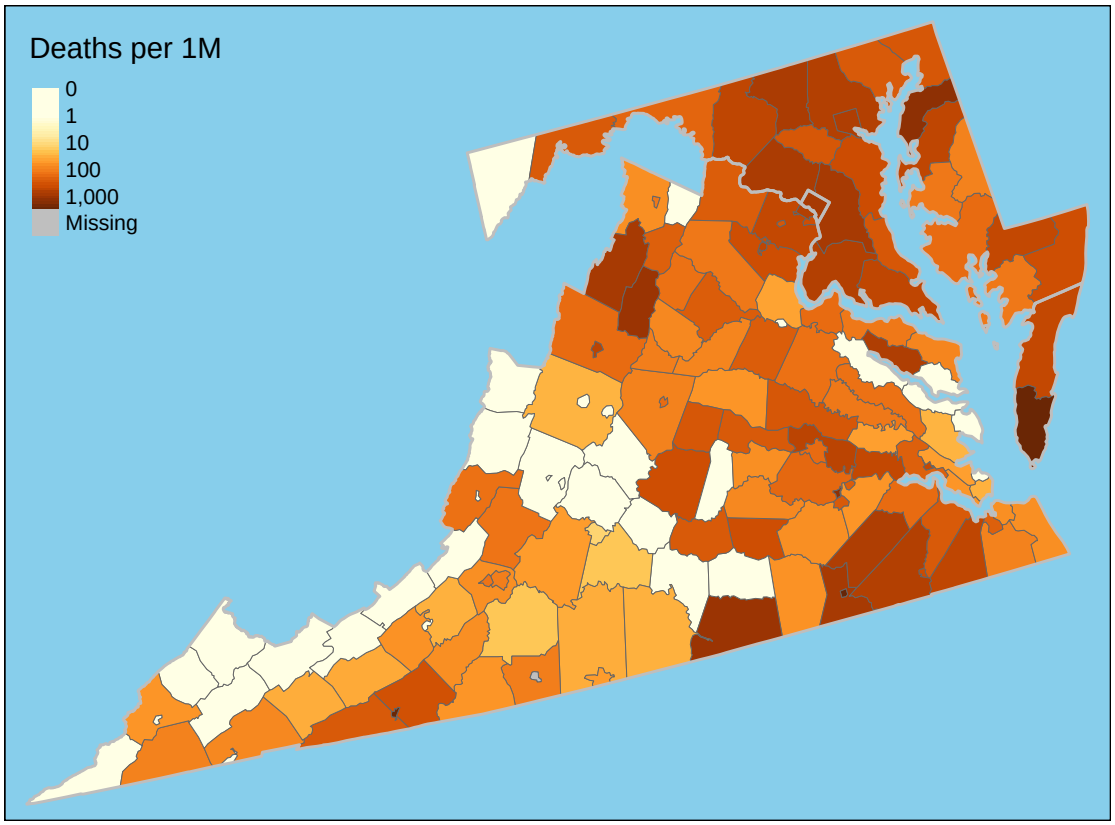
State	Cases	Deaths	New Cases	New Deaths
DC	10,946	568	40	0
MD	74,260	3,334	733	9
VA	72,443	1,977	801	9

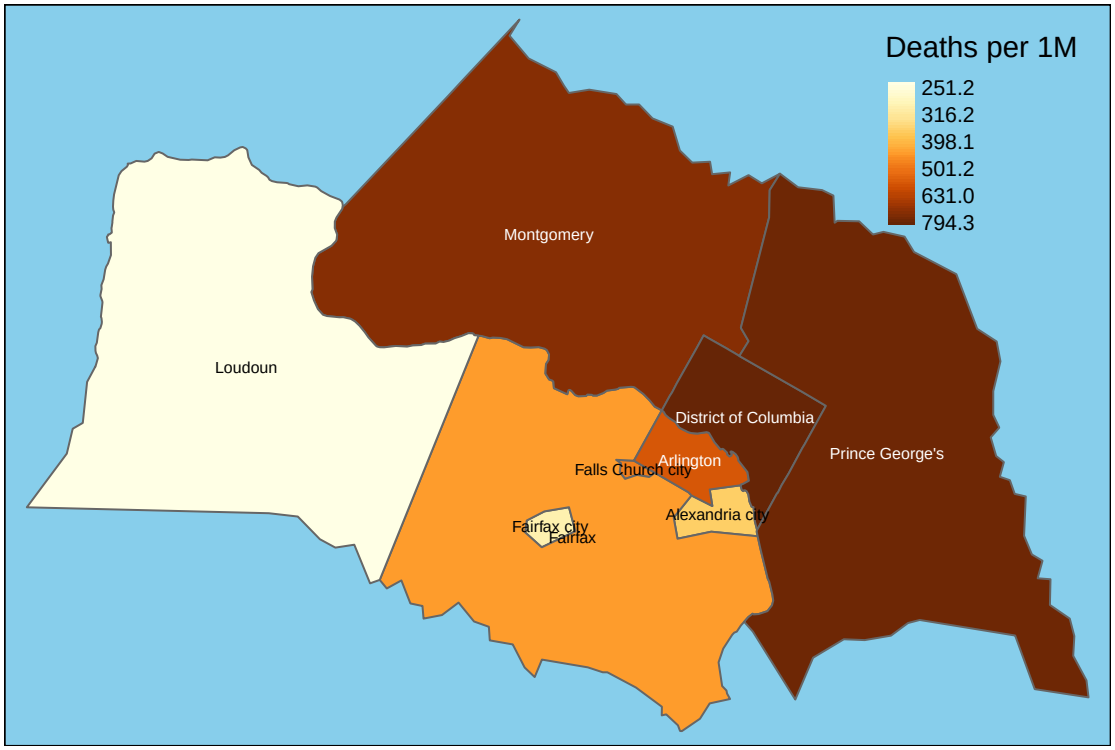
Deaths


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

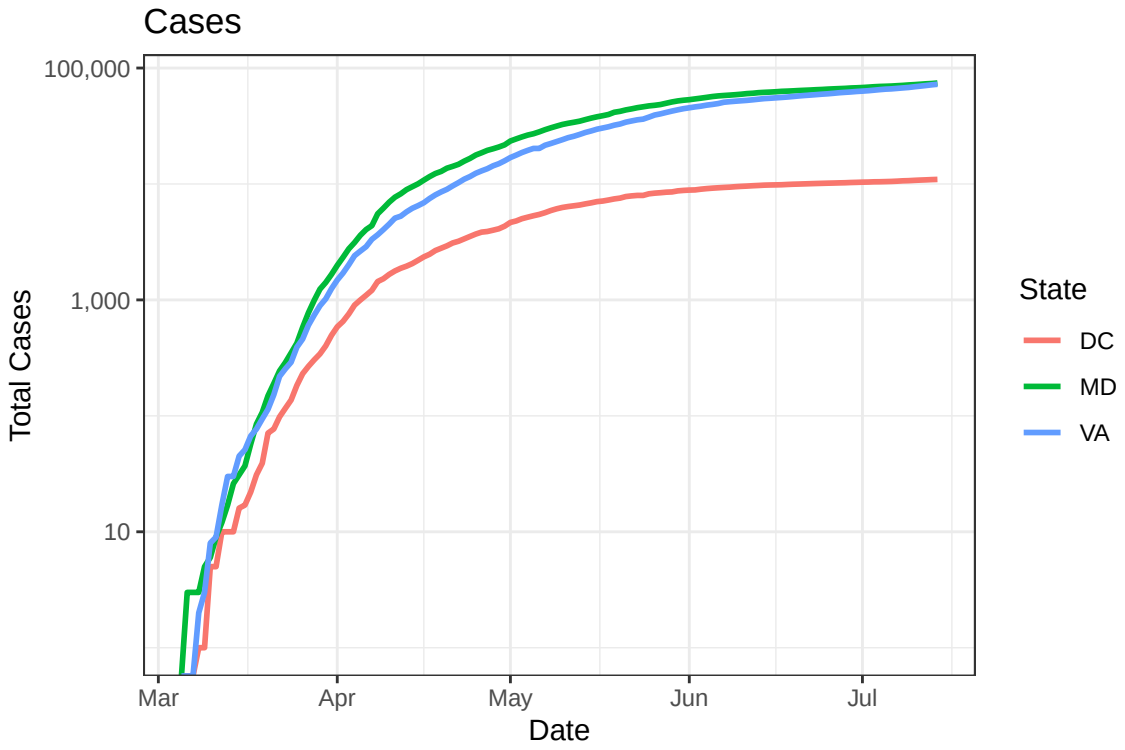

New Deaths
DC
MD
VA
Deaths per Day
Date
Mar
Apr
May
Jun
Jul

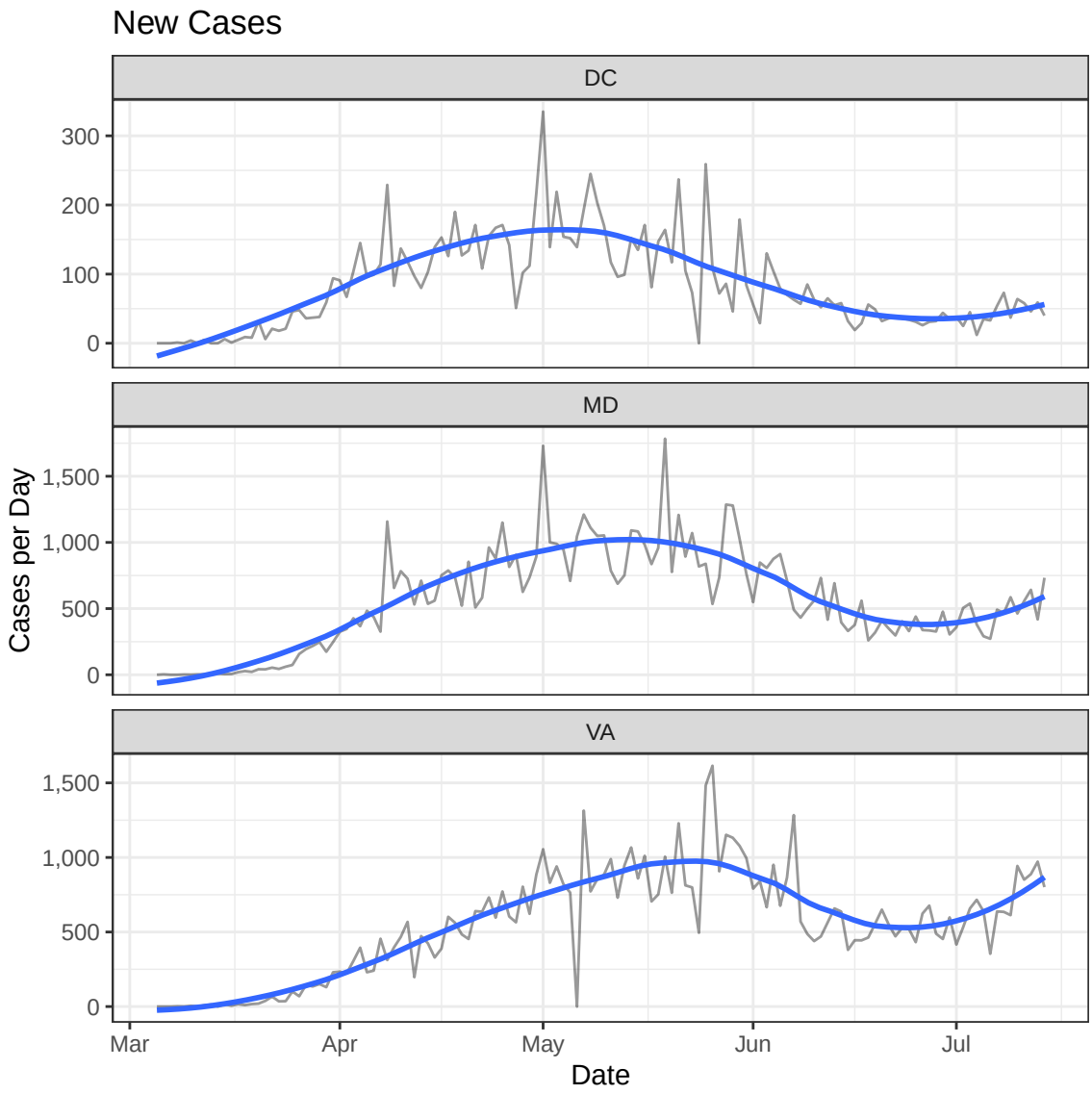

One−Week Change in Daily Deaths
DC
MD
VA
10
0
−10
20
0
−20
−40
7−Day Change
Apr
May
Jun
Jul
Date

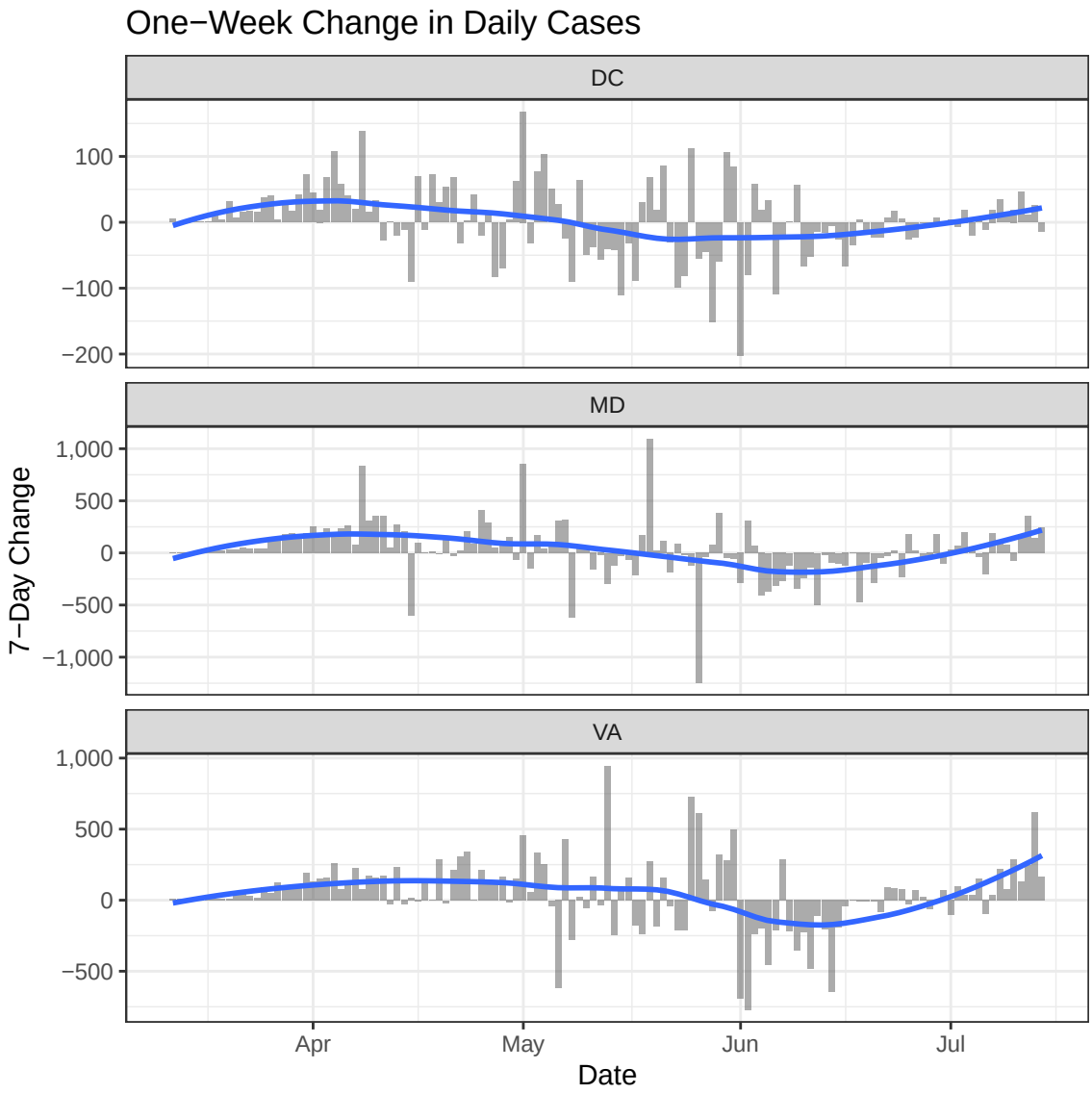

Deaths per 1M
0
1
10
100
1,000
Missing

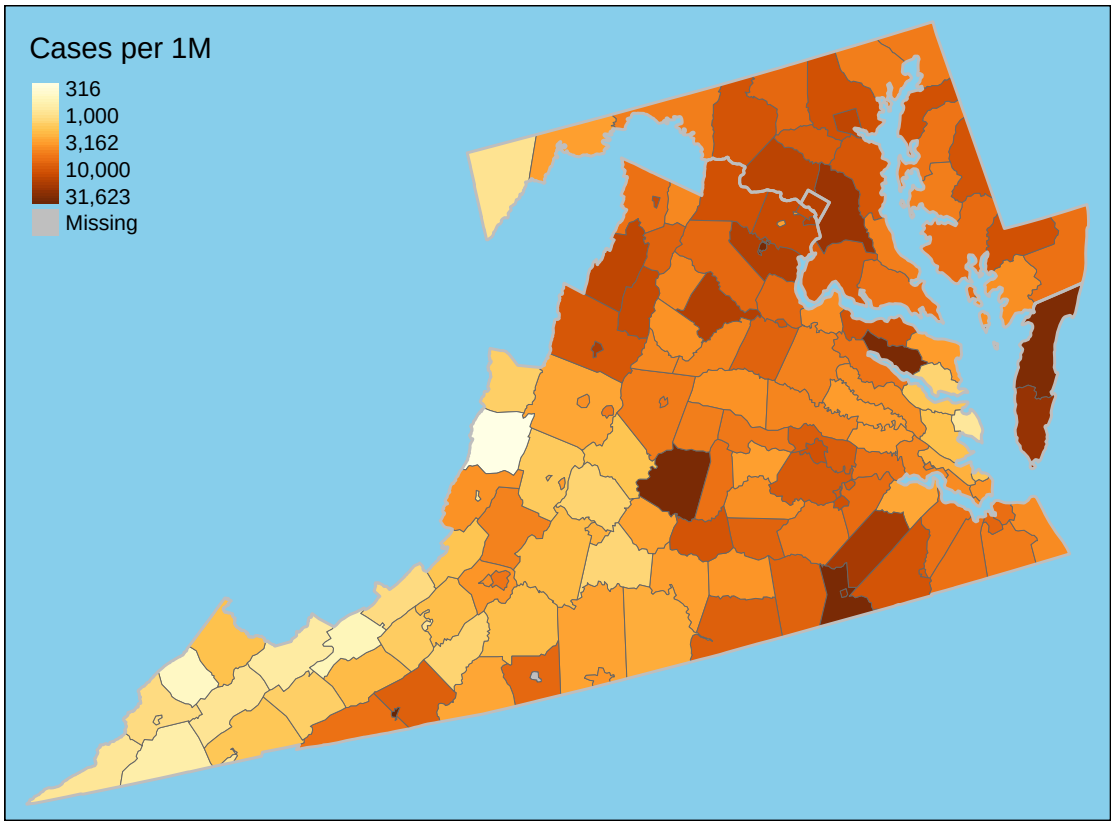

Deaths per 1M
251.2
316.2
398.1
501.2
631.0
794.3
Montgomery
Loudoun
District of Columbia
Prince George's
Arlington
Falls Church city
Alexandria city
Fairfax city
Fairfax

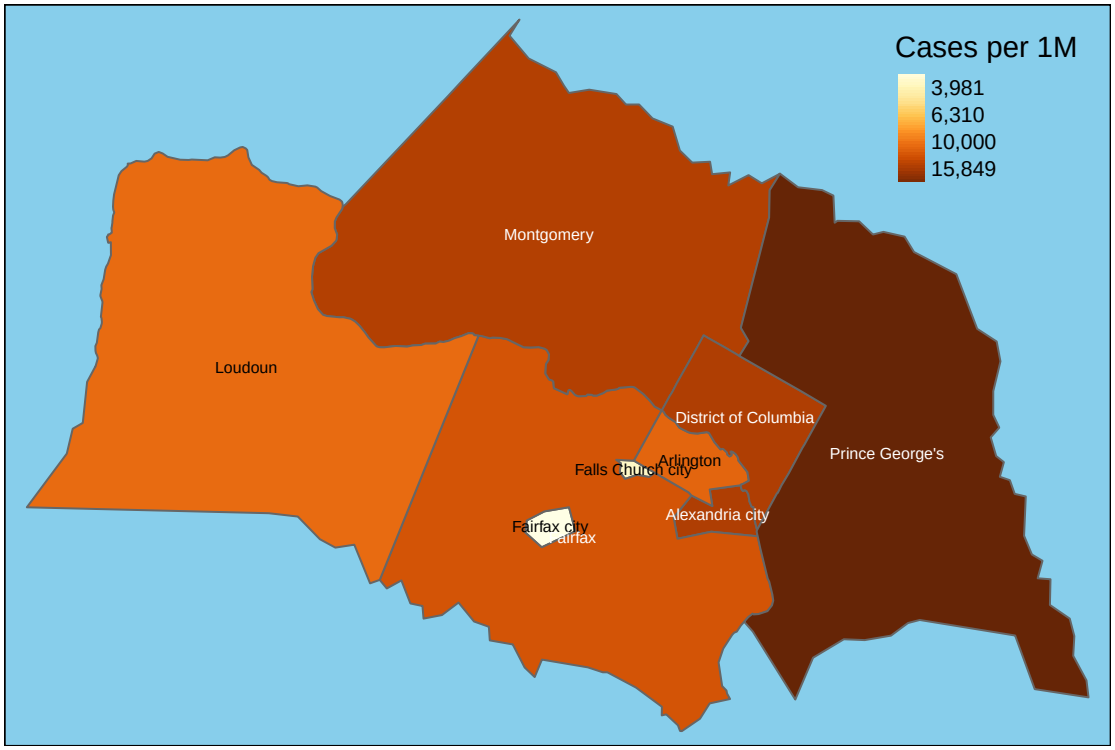
Cases


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

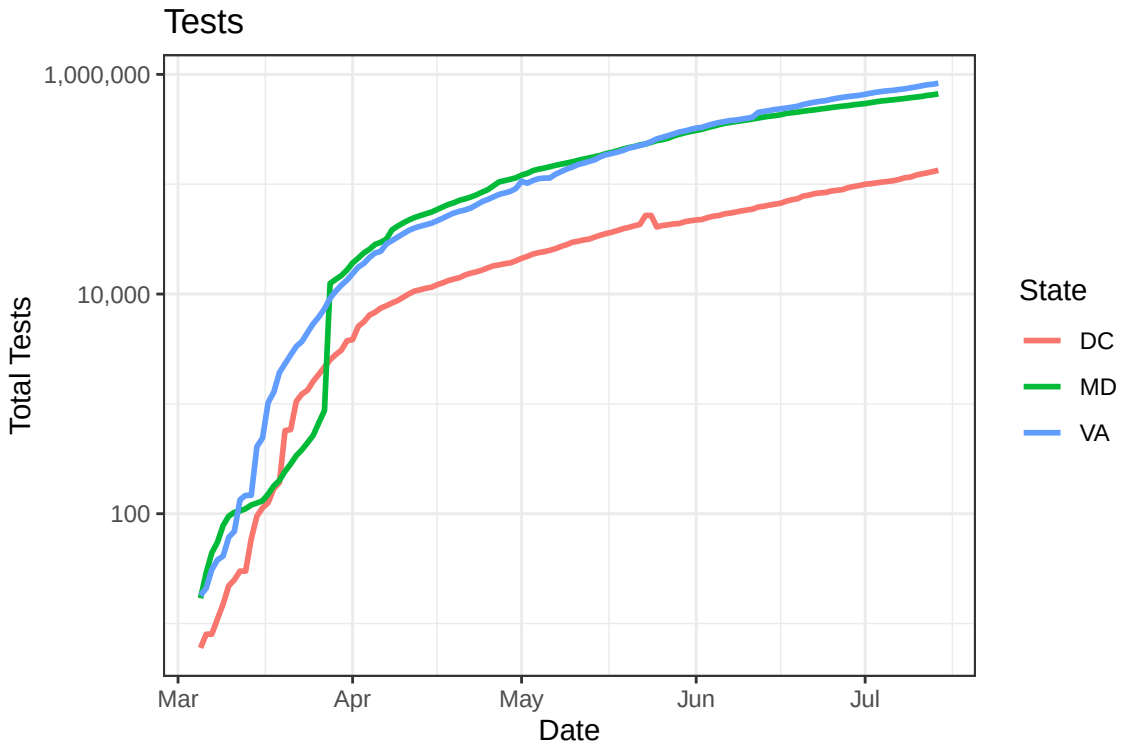

New Cases
DC
MD
VA
300
200
100
0
1,500
1,000
500
0
Cases per Day
Mar
Apr
May
Jun
Jul
Date

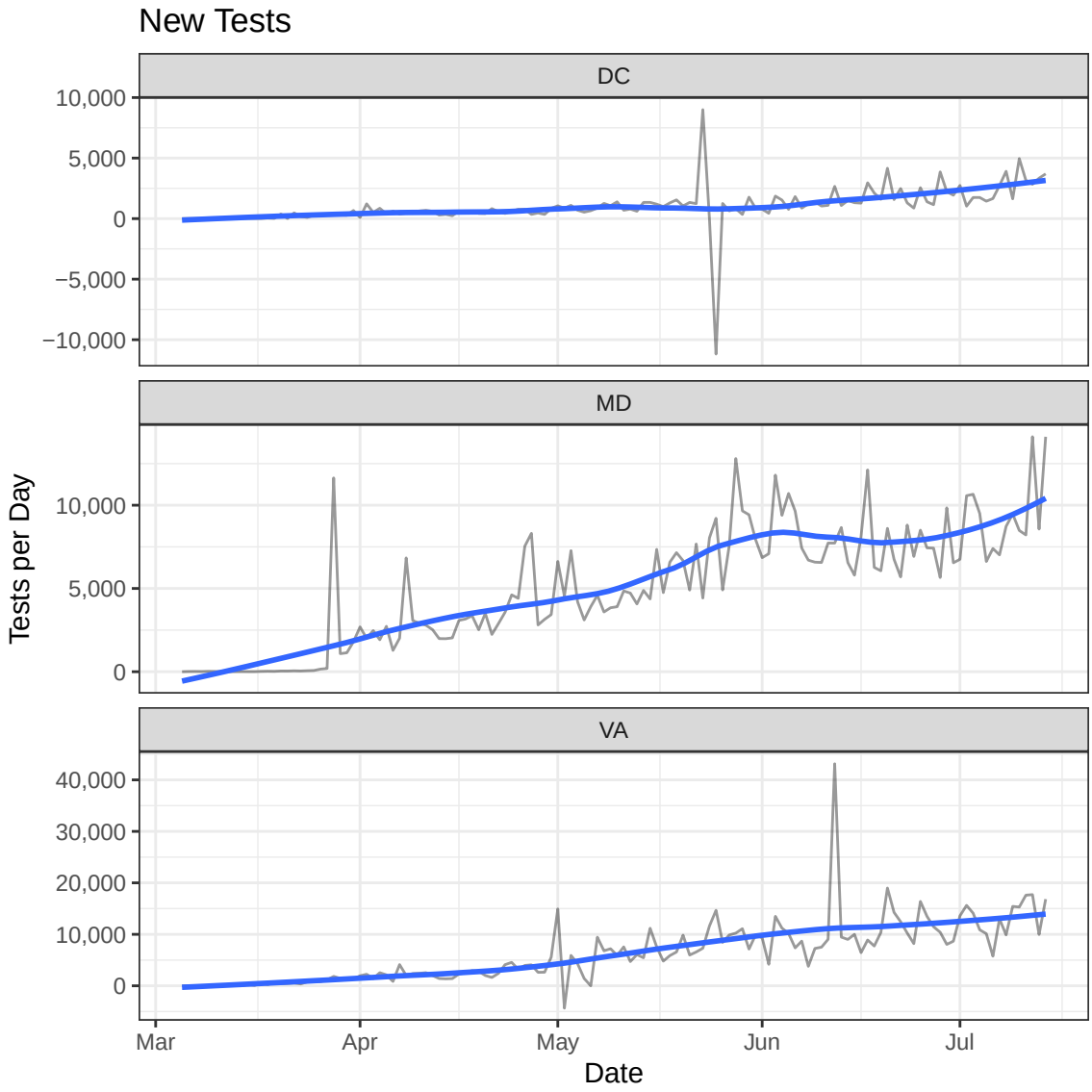

One−Week Change in Daily Cases
DC
MD
VA
100
0
−100
−200
1,000
500
0
−500
−1,000
7−Day Change
Apr
May
Jun
Jul
Date

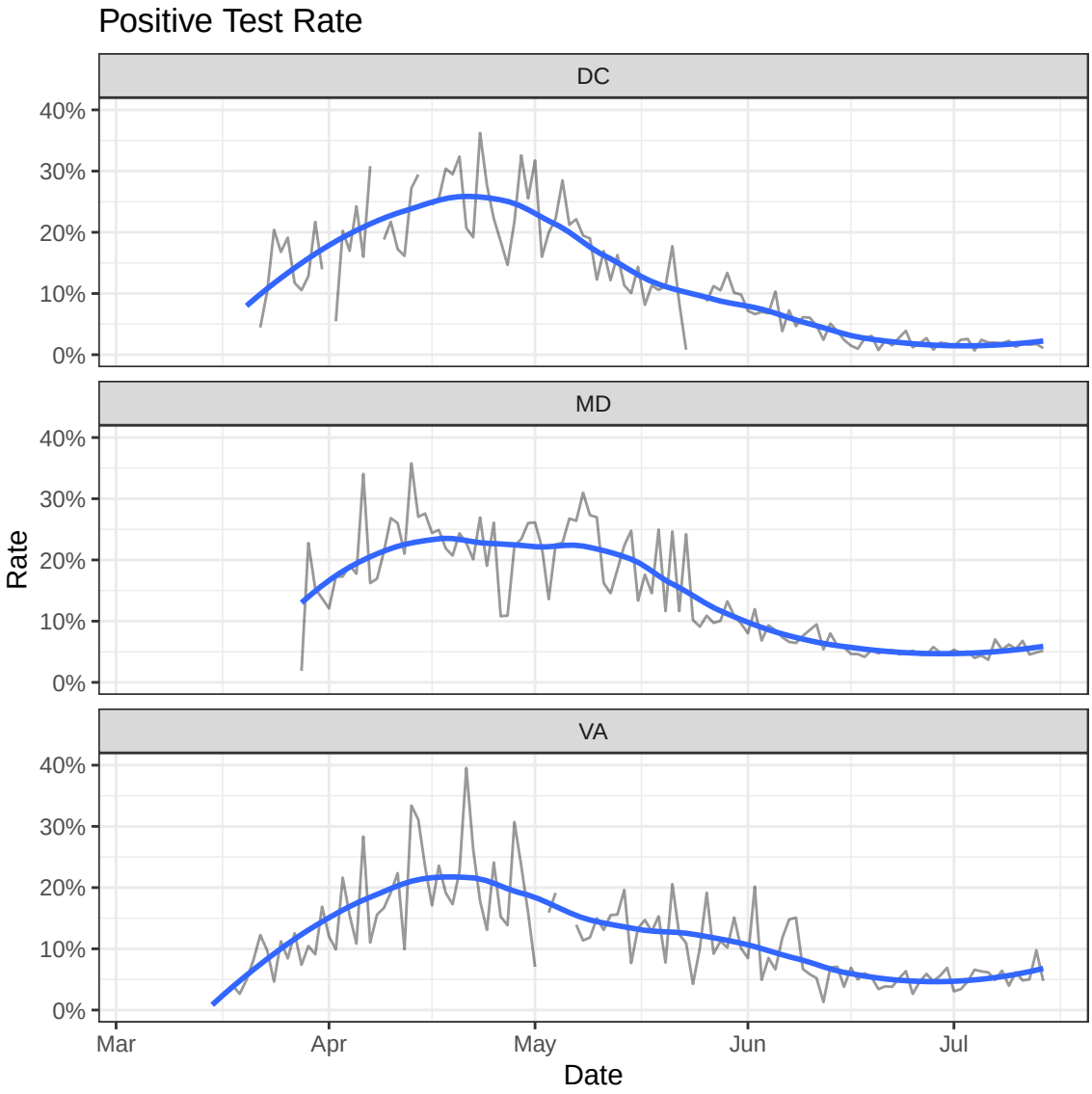

Cases per 1M
316
1,000
3,162
10,000
31,623
Missing


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