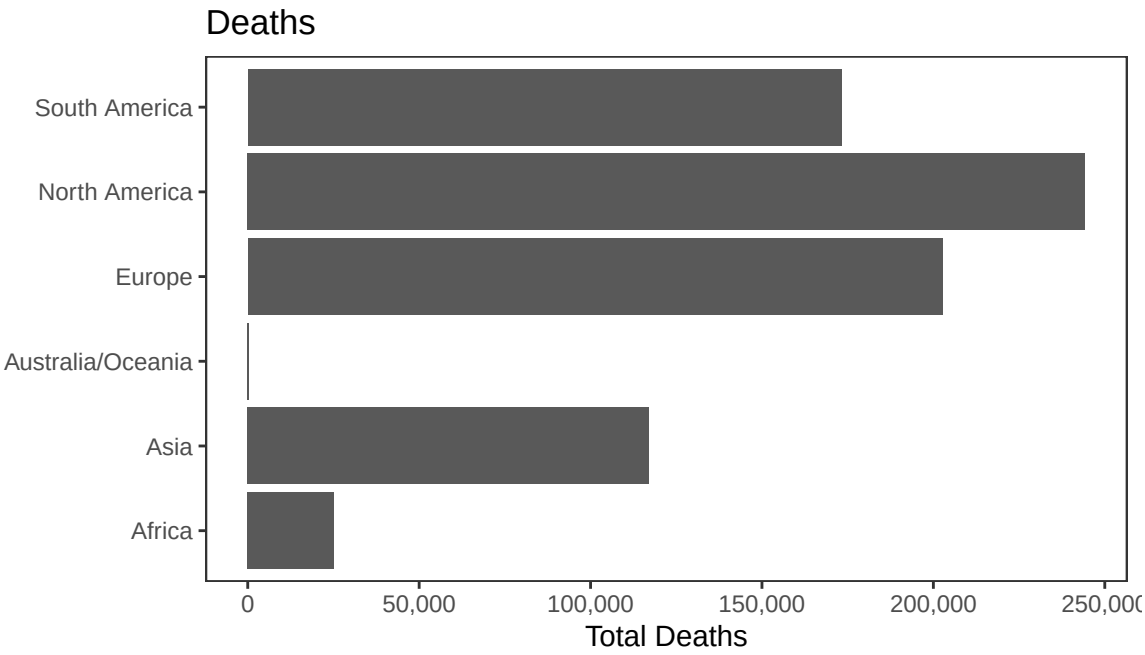
Erik's Covid-19 Chart Pack

Data updated 2020-08-15 19:03:44. 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 21,345,178 confirmed Covid-19 cases and 762,816 deaths worldwide.



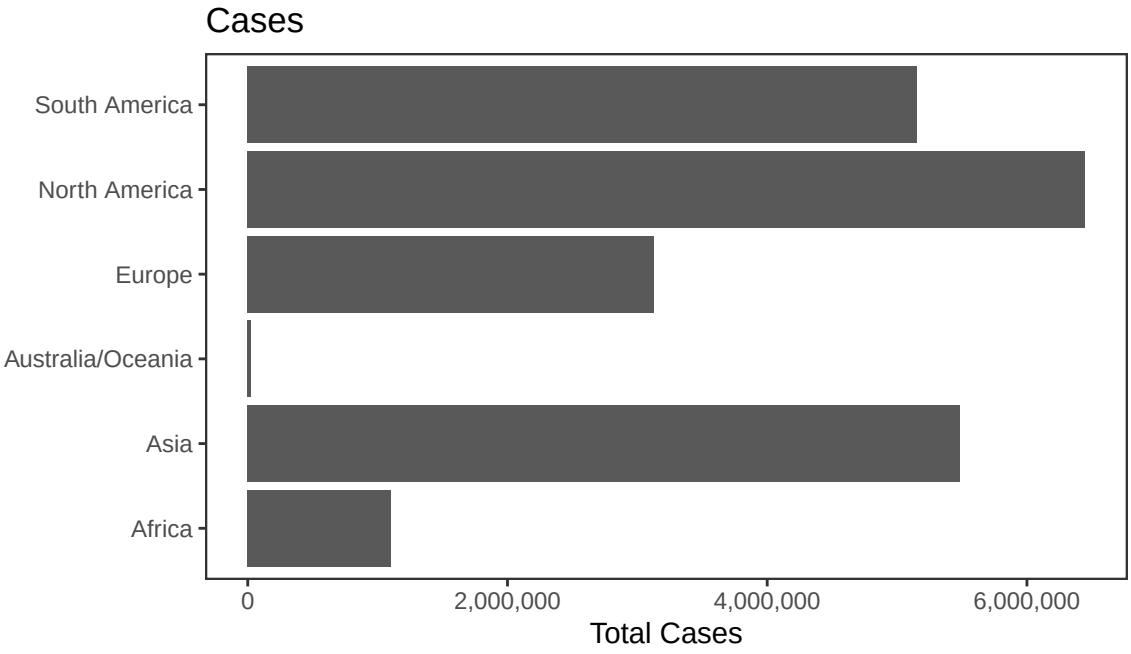
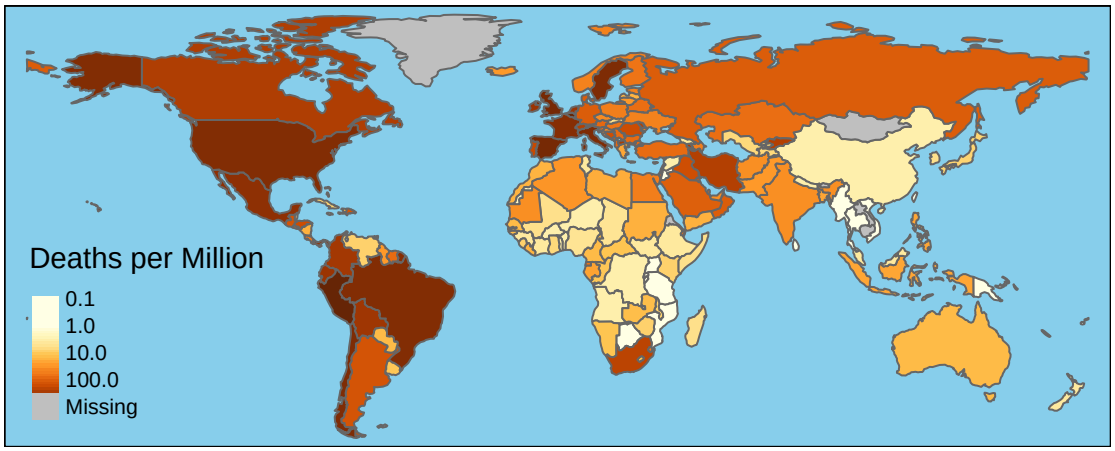
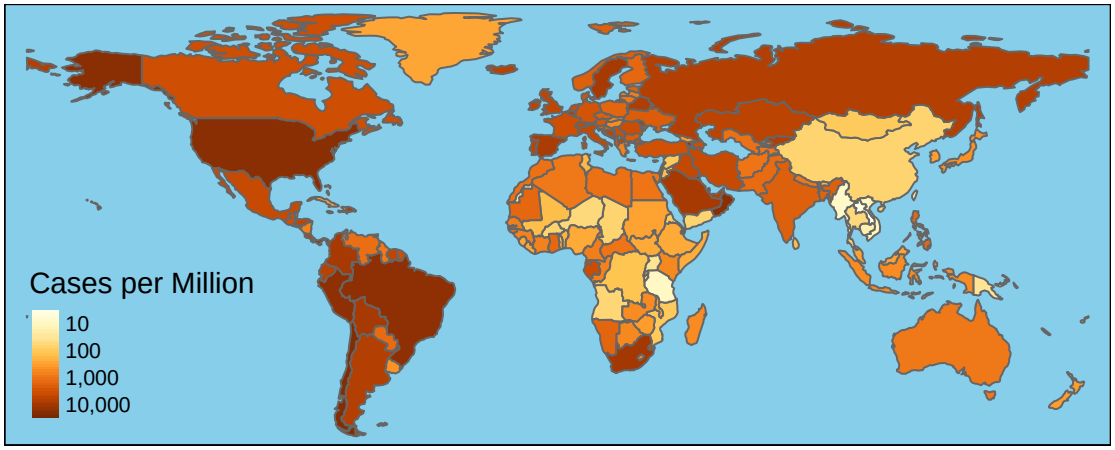
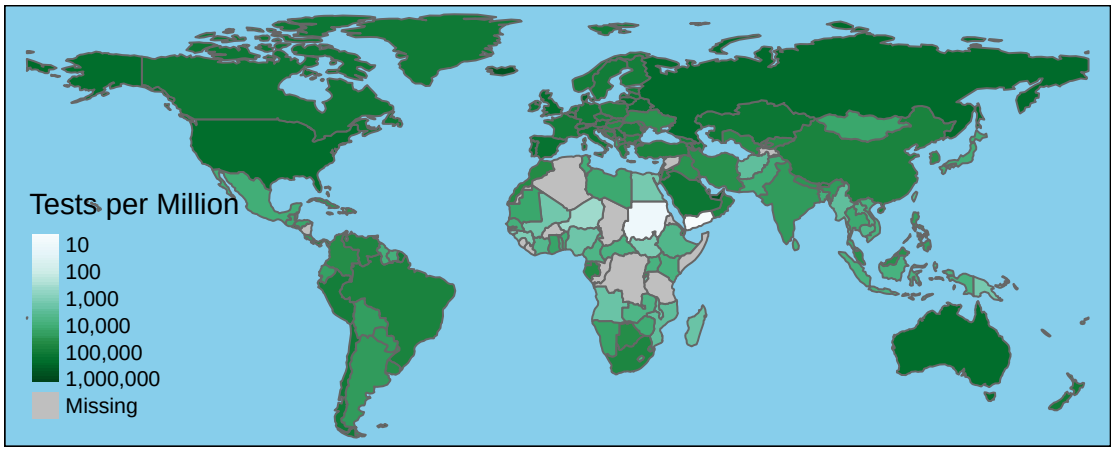


Table 1: Top Countries by Total Cases

Country	Cases	Deaths	New Cases	New Deaths
USA	5,476,266	171,535	60,600	1,120
Brazil	3,278,895	106,571	49,274	1,007
India	2,525,222	49,134	65,609	990
Russia	912,823	15,498	5,065	114
South Africa	579,140	11,556	6,275	286
Peru	516,296	25,856	8,300	208
Mexico	505,751	55,293	7,371	627
Colombia	445,111	14,492	11,306	347
Chile	382,111	10,340	2,077	41
Spain	358,843	28,617	2,987	12
Iran	338,825	19,331	2,501	169
UK	316,367	41,358	1,440	11
Saudi Arabia	295,902	3,338	1,383	35
Pakistan	287,300	6,153	626	14
Argentina	282,437	5,527	6,365	165
Bangladesh	271,881	3,591	2,766	34
Italy	252,809	35,388	574	3
Turkey	246,861	5,934	1,226	22
Germany	223,774	9,289	1,505	8
France	212,211	30,405	2,846	17


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
1,000,000
Missing

National Data

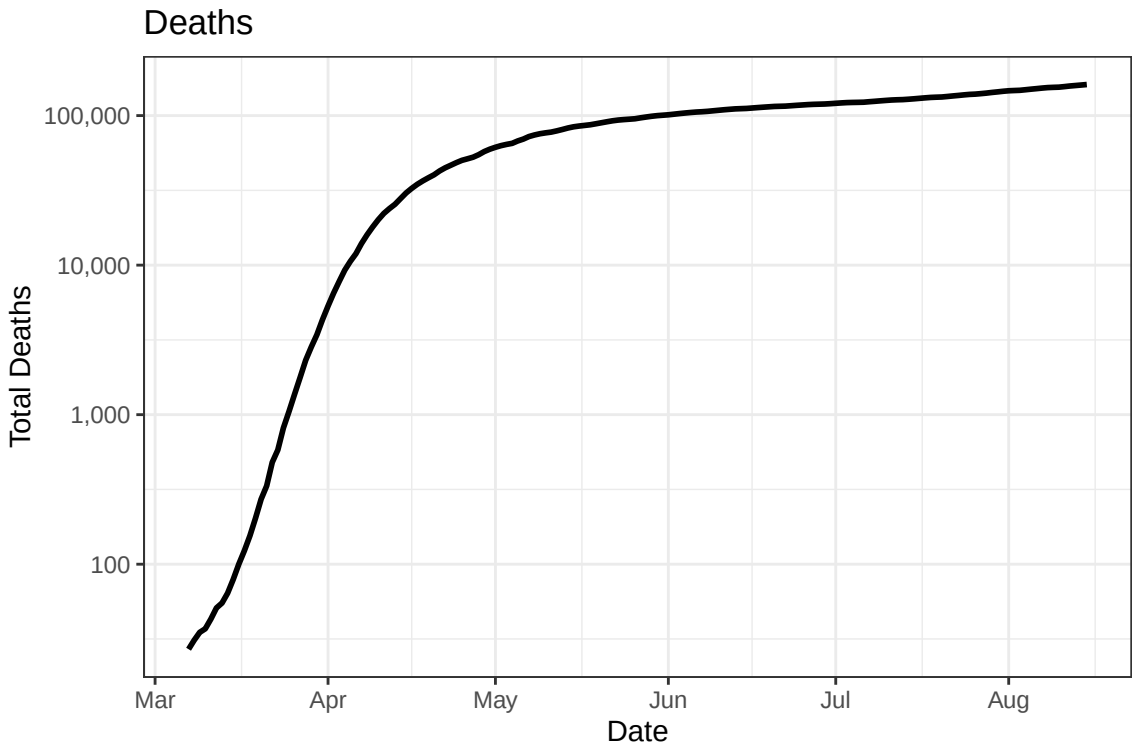
There have been 5,336,362 confirmed Covid-19 cases and 161,373 deaths in the United States.

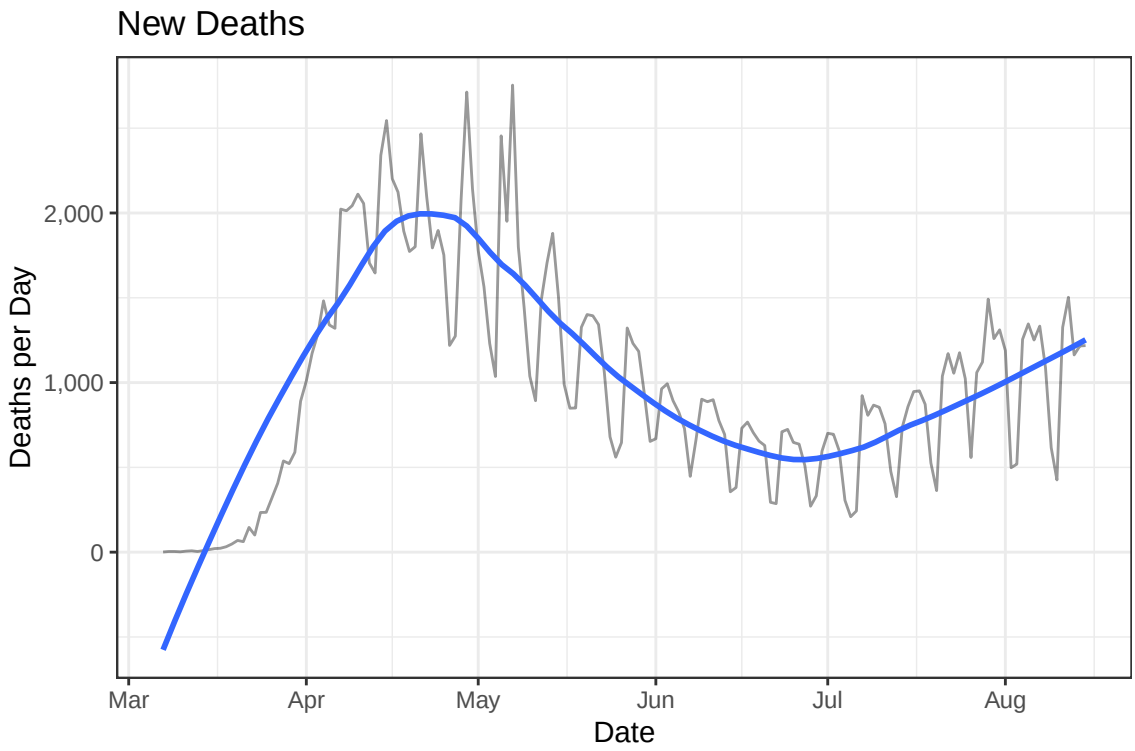
Table 2: U.S. Deaths and Cases over the Last Two Weeks

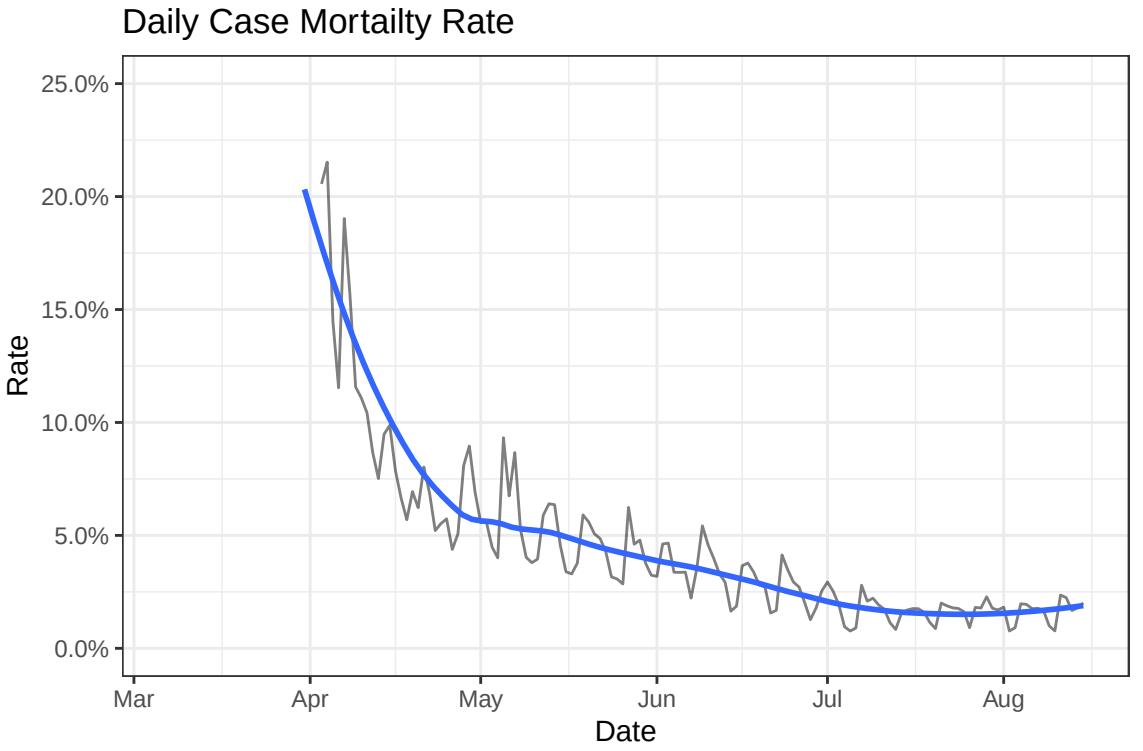
Date	Cases	Deaths	New Cases	New Deaths
2020-08-15	5,336,362	161,373	56,499	1,218
2020-08-14	5,279,863	160,155	55,649	1,216
2020-08-13	5,224,214	158,939	51,705	1,163
2020-08-12	5,172,509	157,776	56,035	1,503
2020-08-11	5,116,474	156,273	55,594	1,326
2020-08-10	5,060,880	154,947	41,807	426
2020-08-09	5,019,073	154,521	51,319	616
2020-08-08	4,967,754	153,905	54,091	1,089
2020-08-07	4,913,663	152,816	61,520	1,333
2020-08-06	4,852,143	151,483	54,184	1,251
2020-08-05	4,797,959	150,232	52,265	1,346
2020-08-04	4,745,694	148,886	51,568	1,255
2020-08-03	4,694,126	147,631	49,561	519
2020-08-02	4,644,565	147,112	48,266	498

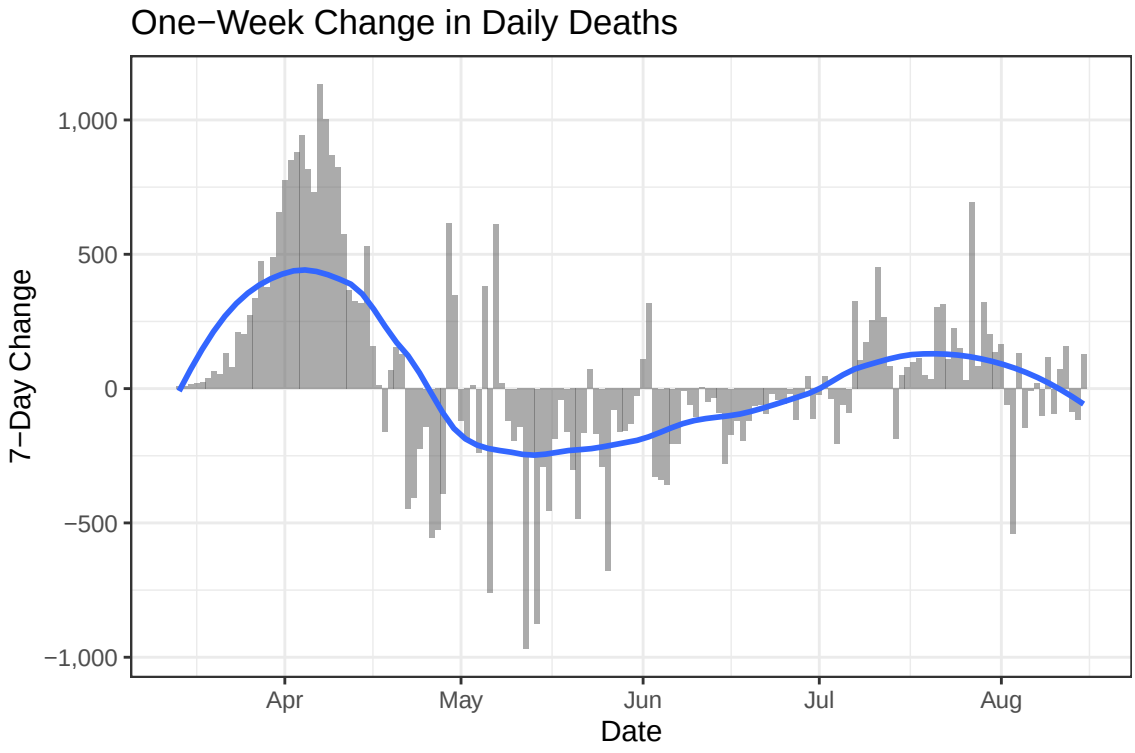
Deaths

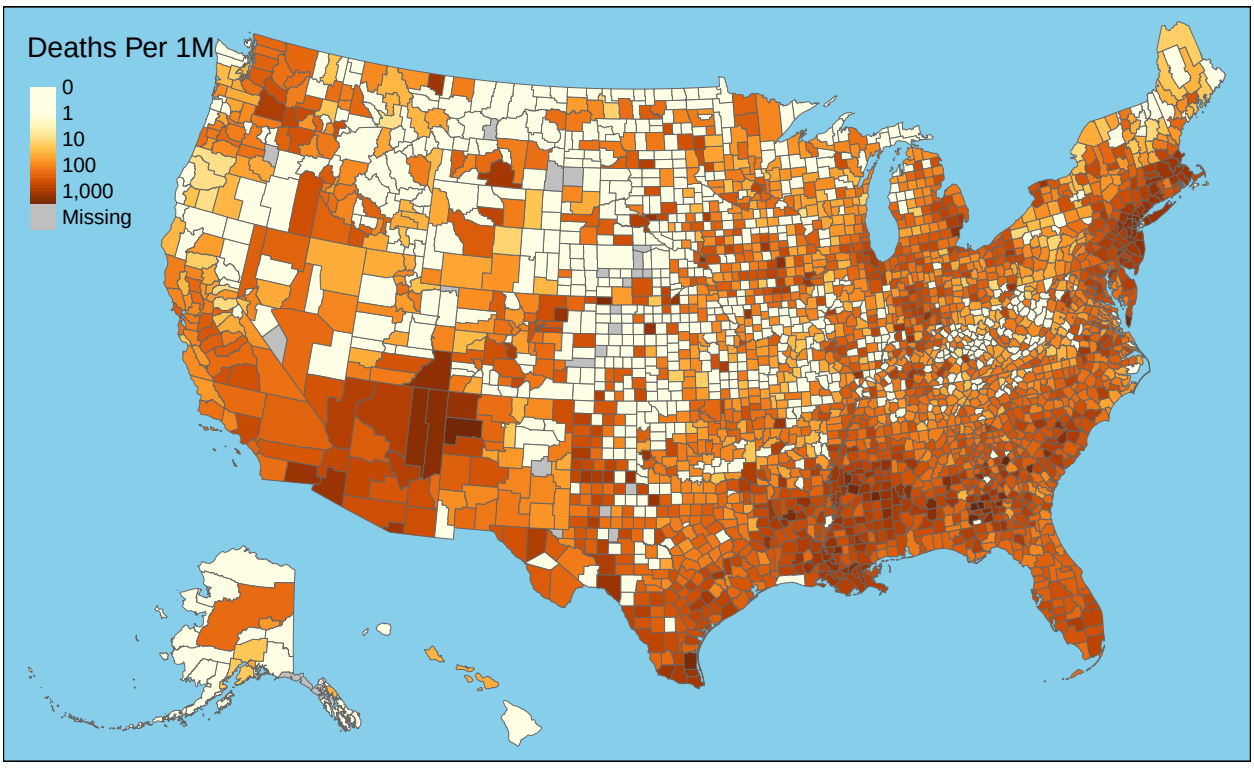
Because the effects of the virus can take several weeks to manifest in patients, deaths are a lagging indicator of contagion, but they may be a more reliable than case counts, which are a function of both the prevalence of the disease and the rate of testing. The case mortality rate is a very crude indicator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





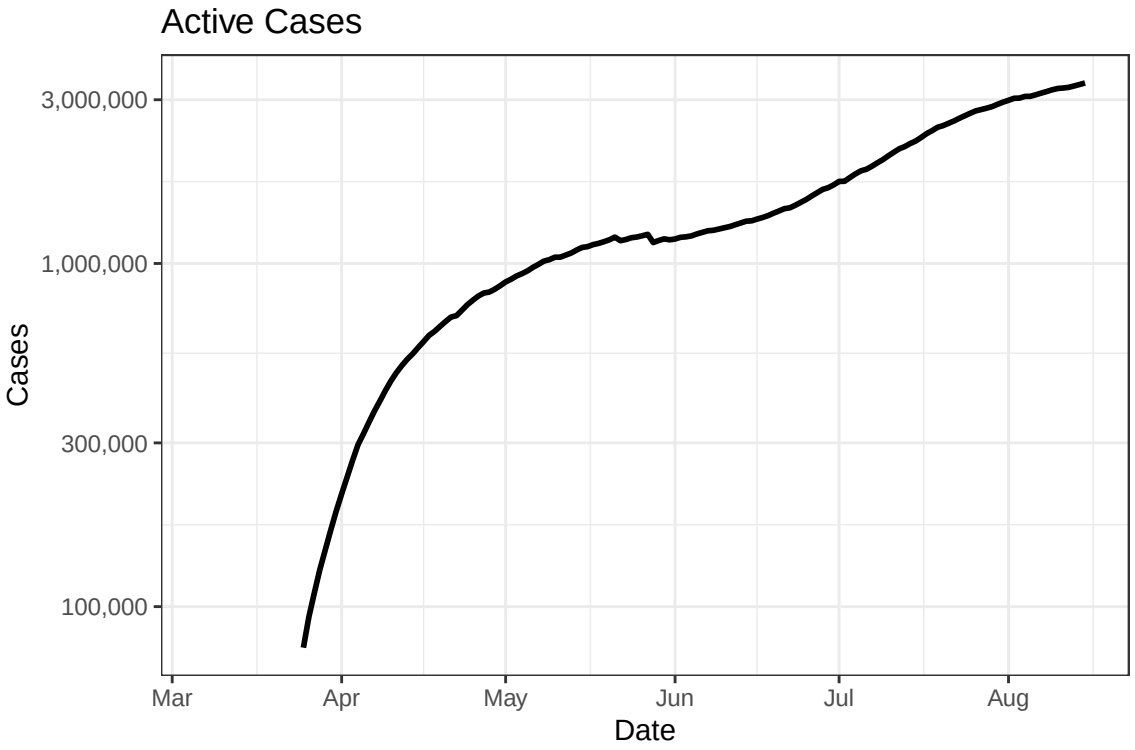

Daily Case Mortailty Rate
25.0%
20.0%
15.0%
10.0%
5.0%
0.0%
Rate
Mar
Apr
May
Jun
Jul
Aug
Date

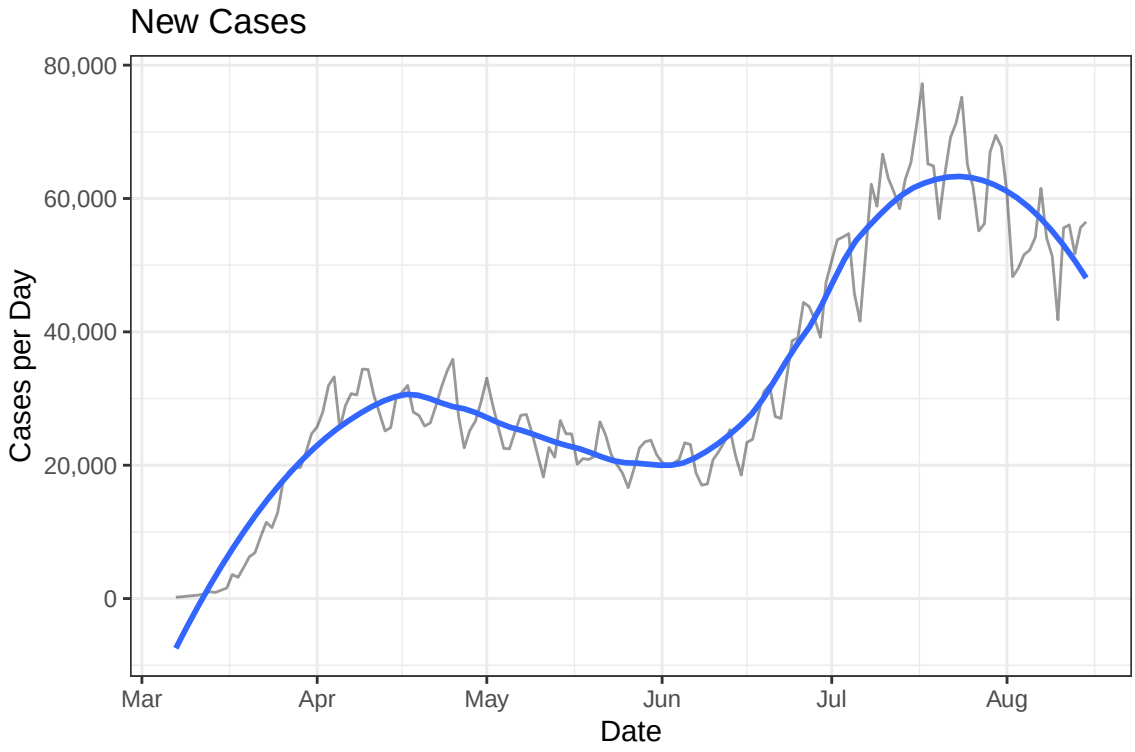

One−Week Change in Daily Deaths
1,000
500
0
−500
−1,000
7−Day Change
Apr
May
Jun
Jul
Aug
Date

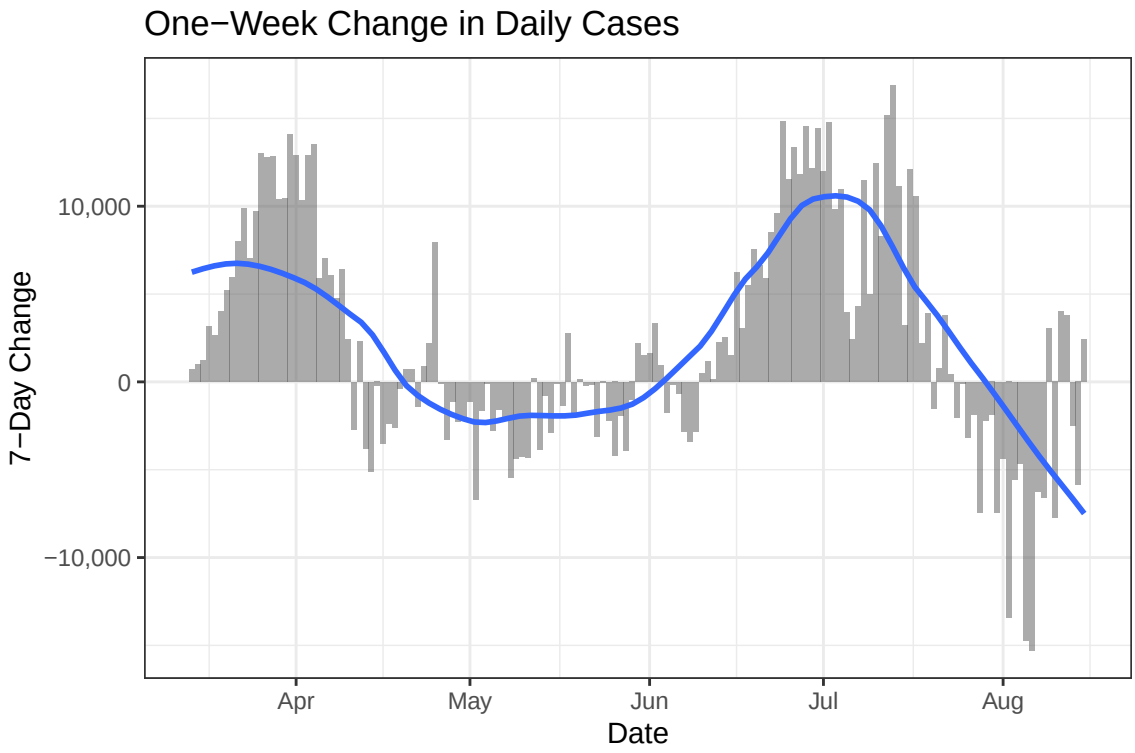

Deaths Per 1M
0
1
10
100
1,000
Missing

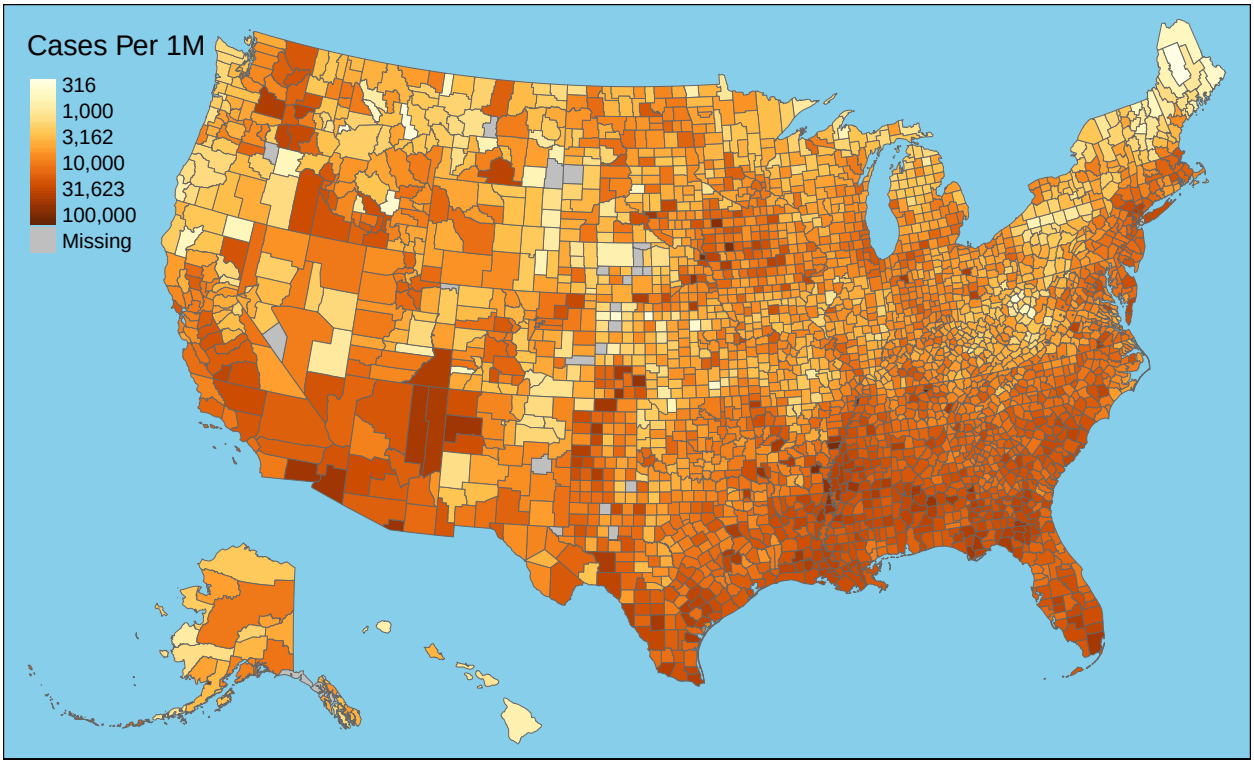
Cases

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



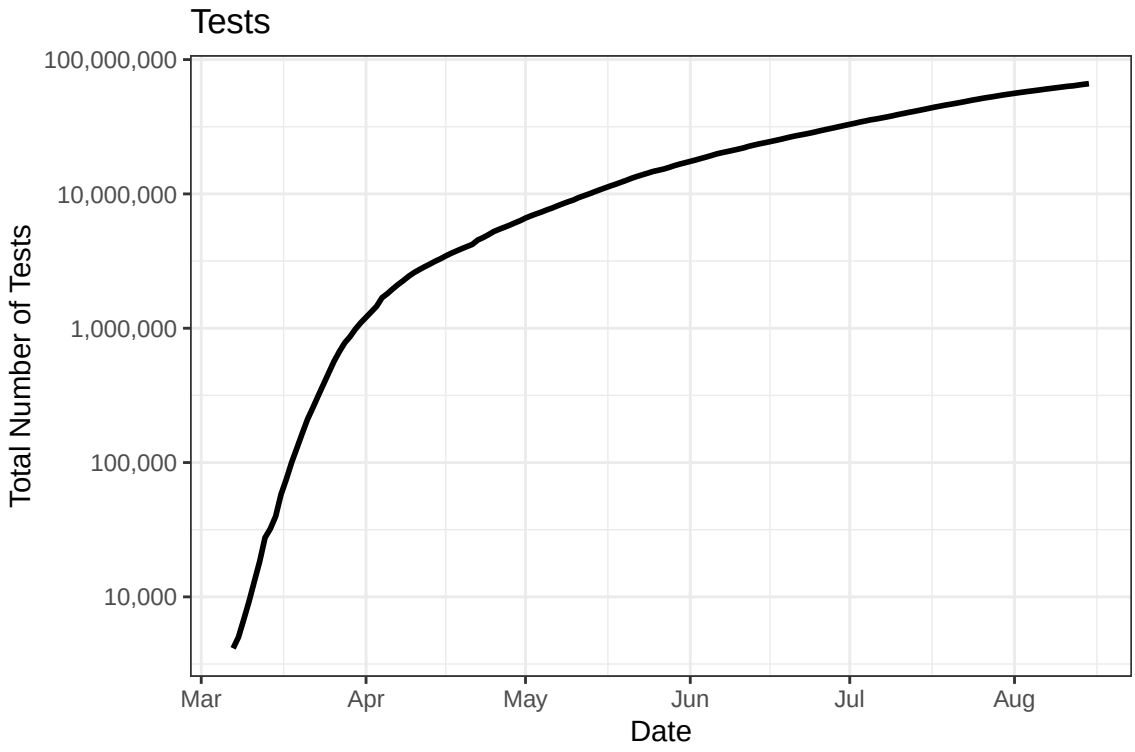


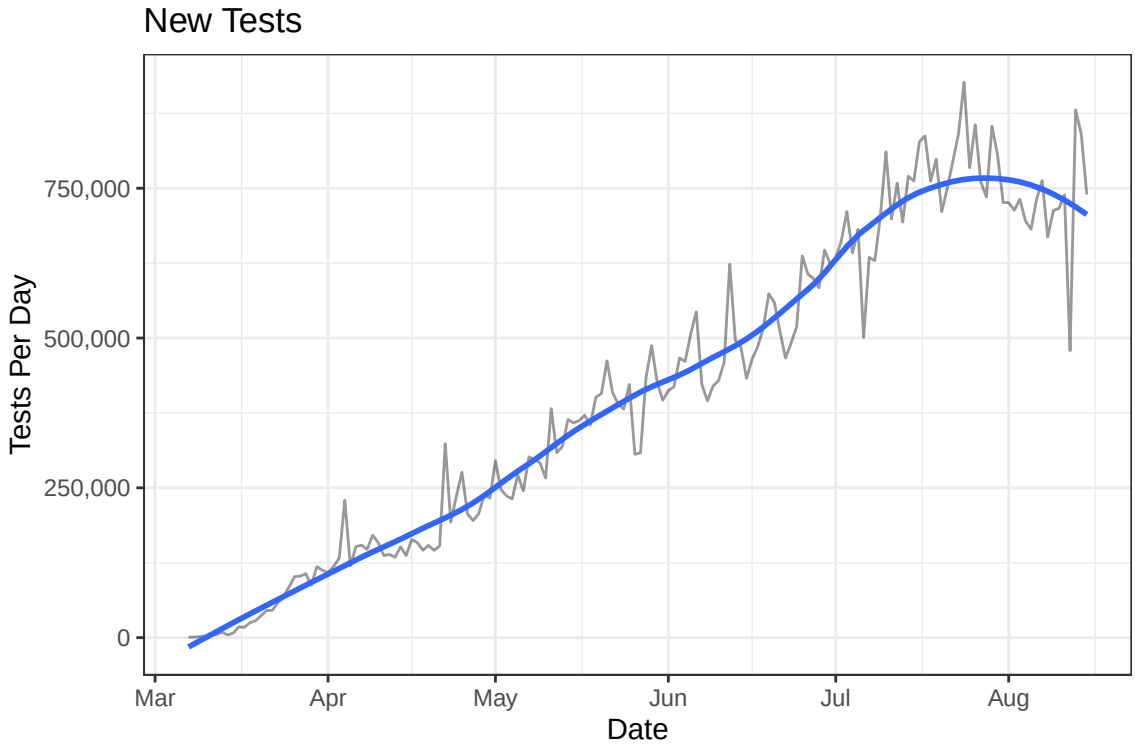

One−Week Change in Daily Cases
10,000
0
−10,000
7−Day Change
Apr
May
Jun
Jul
Aug
Date

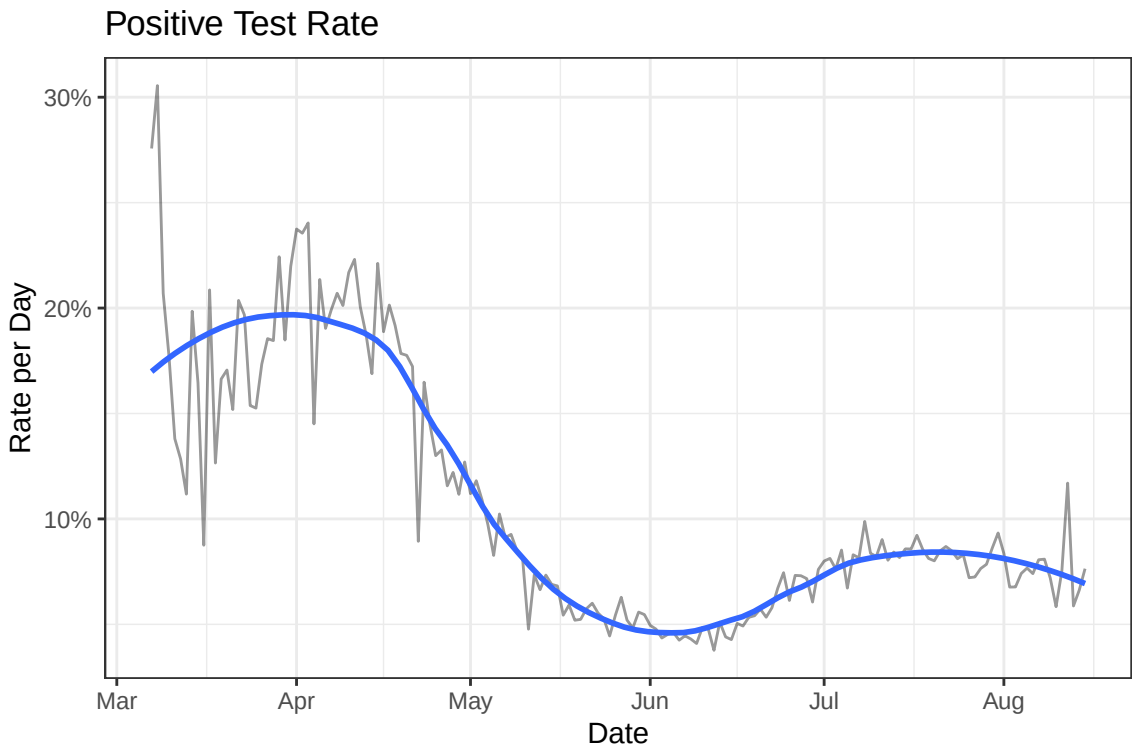

Cases Per 1M
316
1,000
3,162
10,000
31,623
100,000
Missing

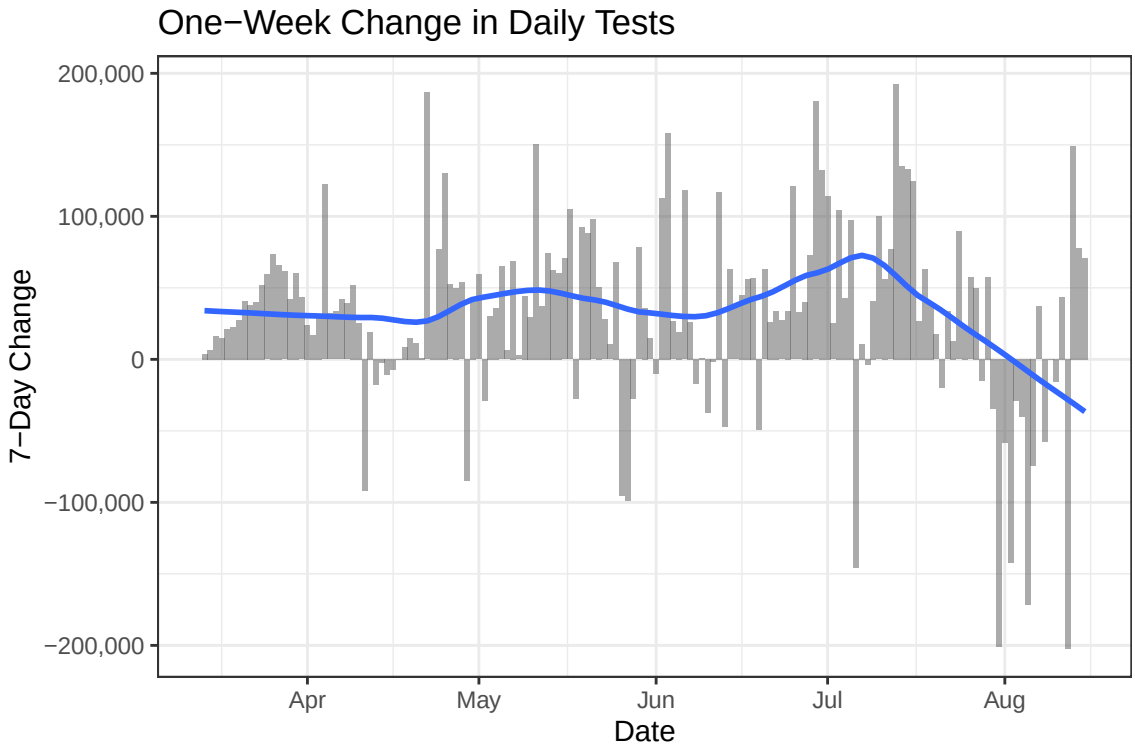
Testing

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.





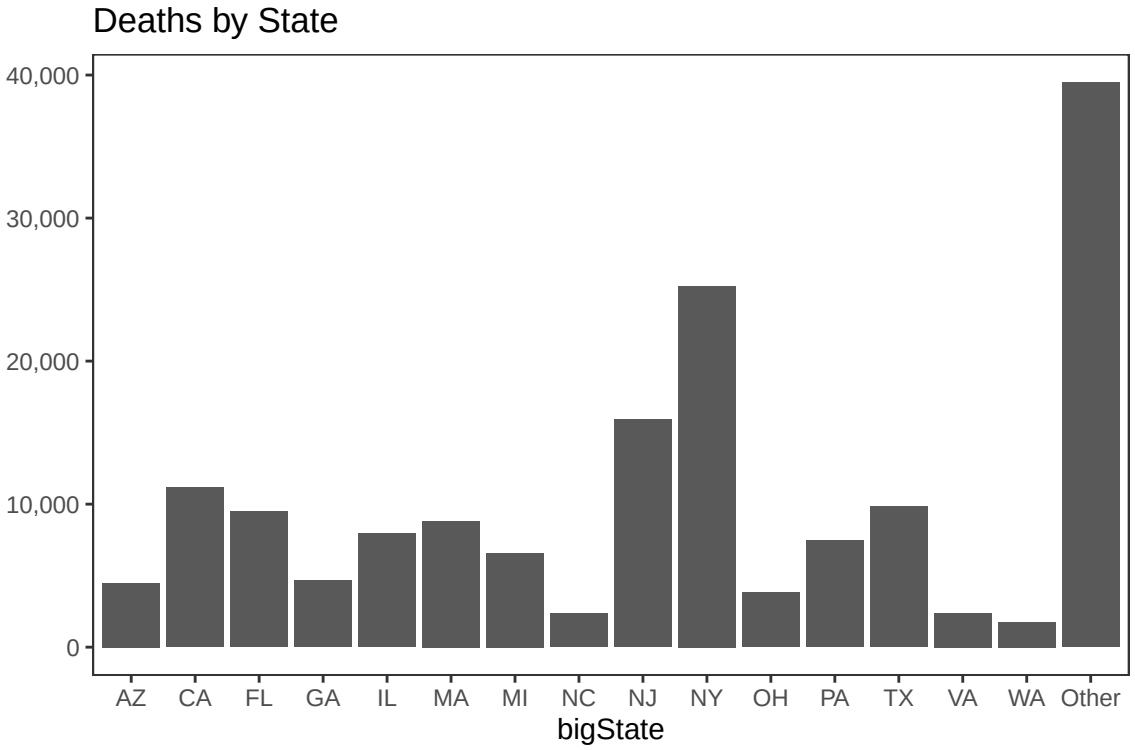

Positive Test Rate
30%
20%
10%
Rate per Day
Mar
Apr
May
Jun
Jul
Aug
Date

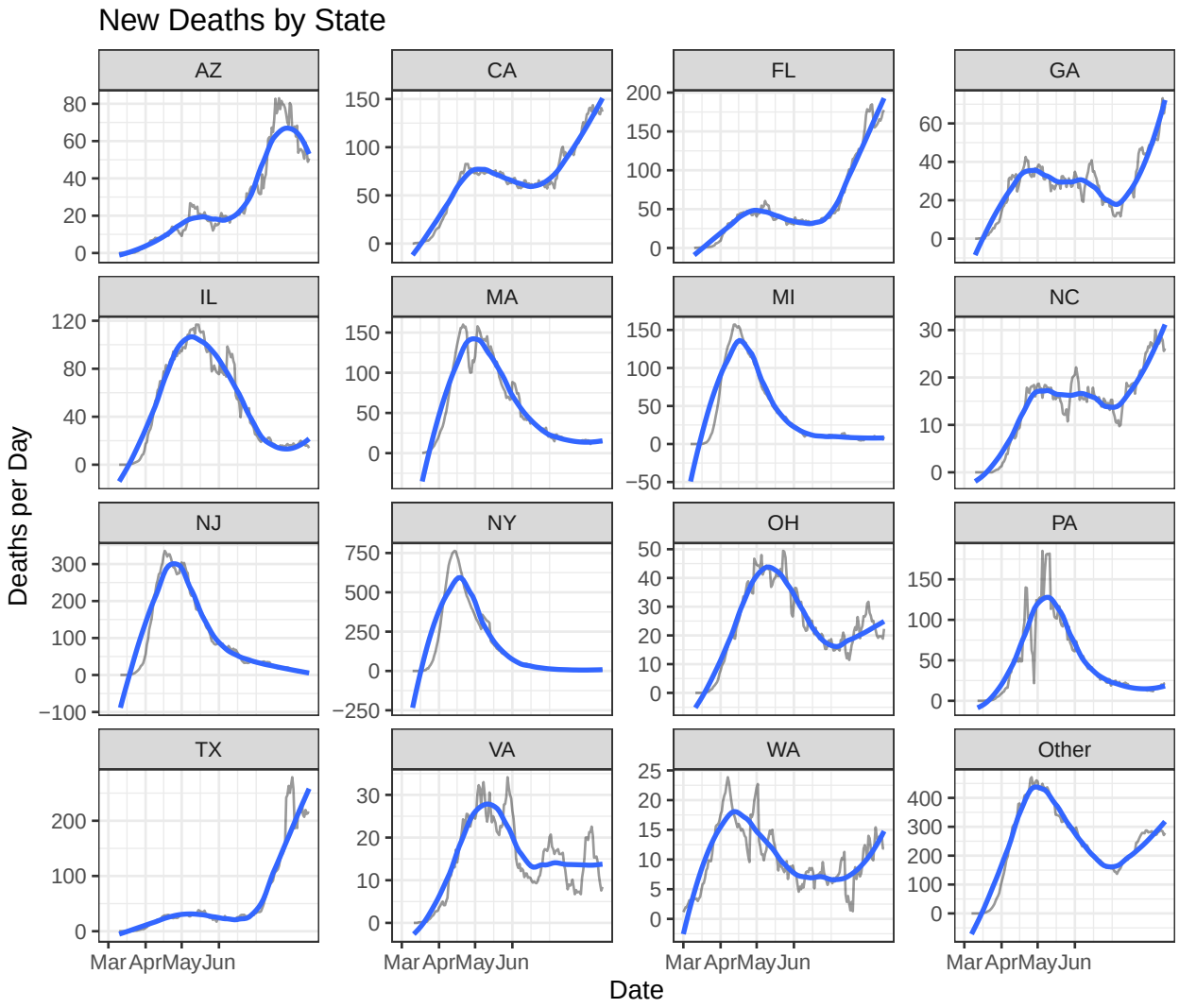

One−Week Change in Daily Tests
200,000
100,000
0
−100,000
−200,000
7−Day Change
Apr
May
Jun
Jul
Aug
Date

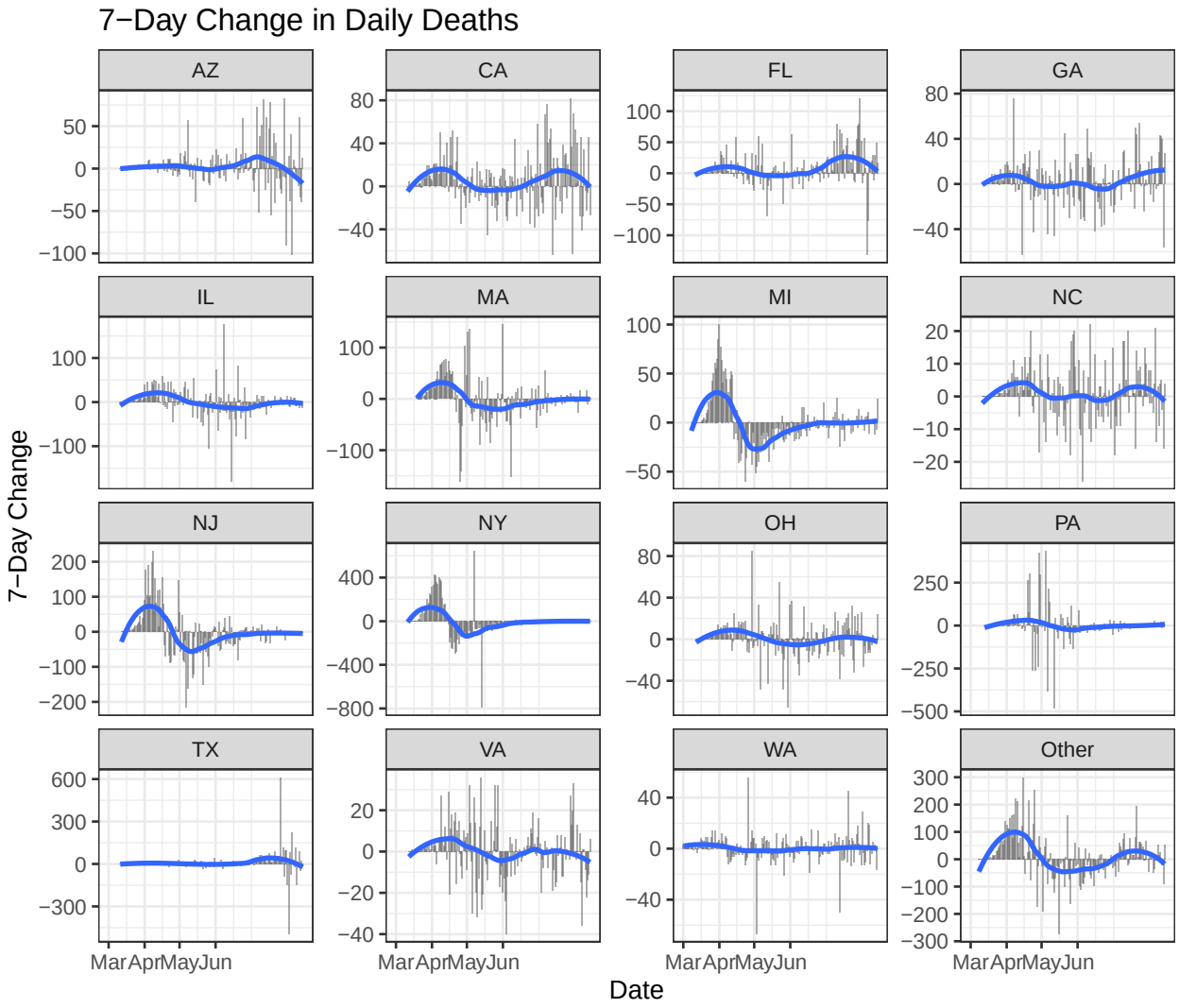
State Data

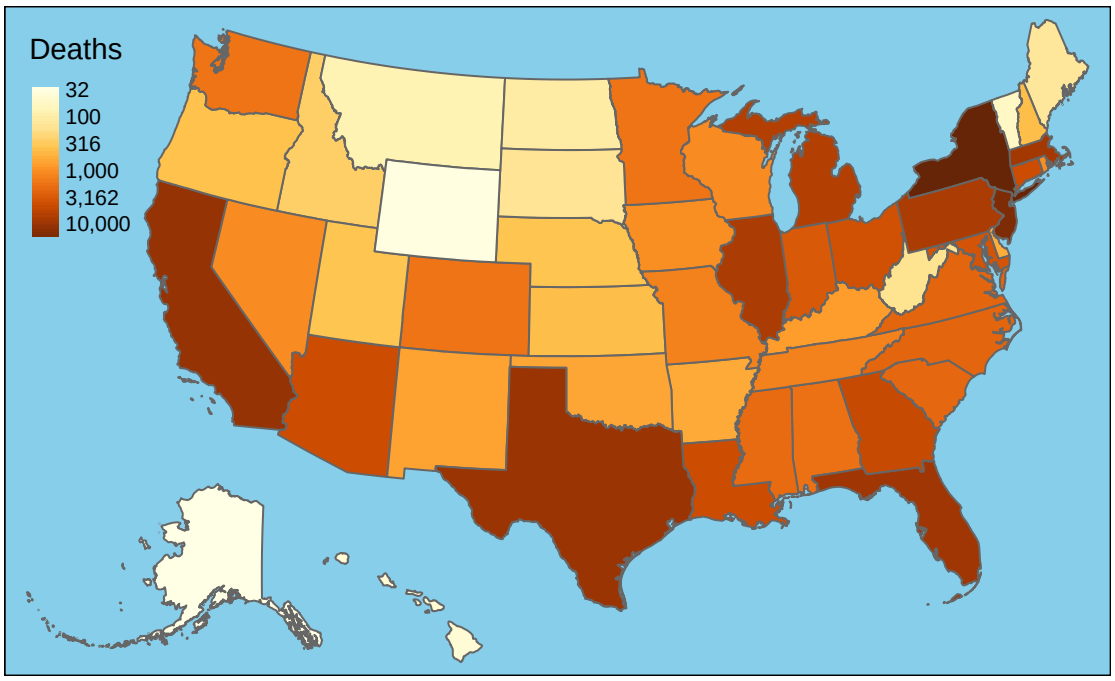
This section summarizes state-level data. Most data are reported for the largest 15 states by population, which account for NaN percent of the total U.S. population.

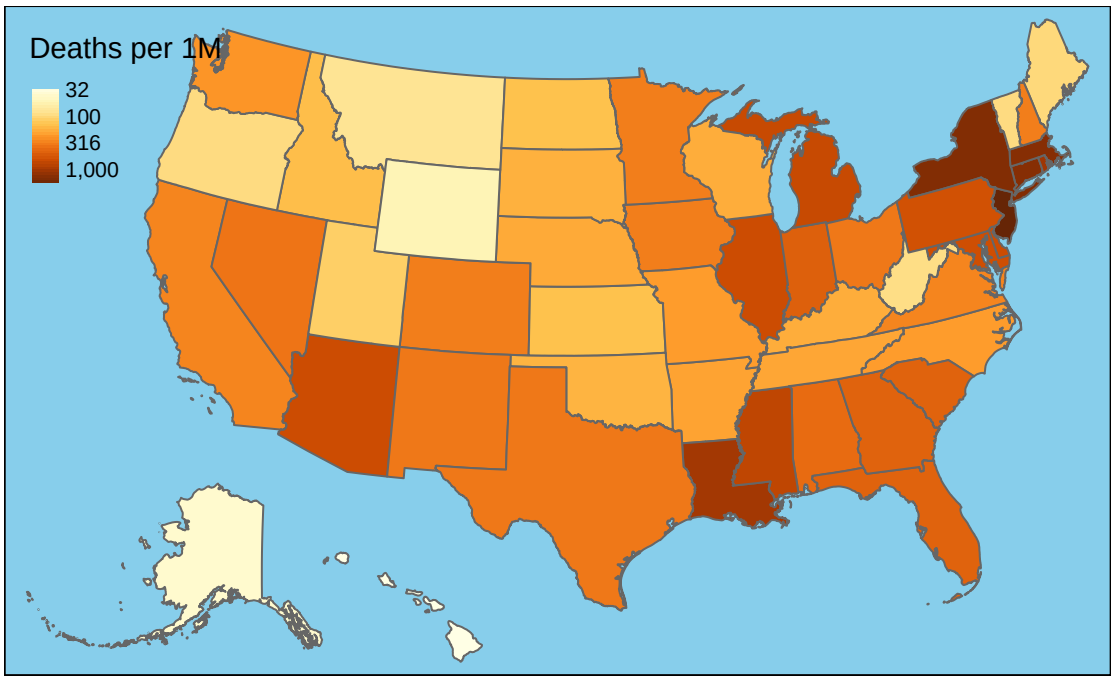
Deaths



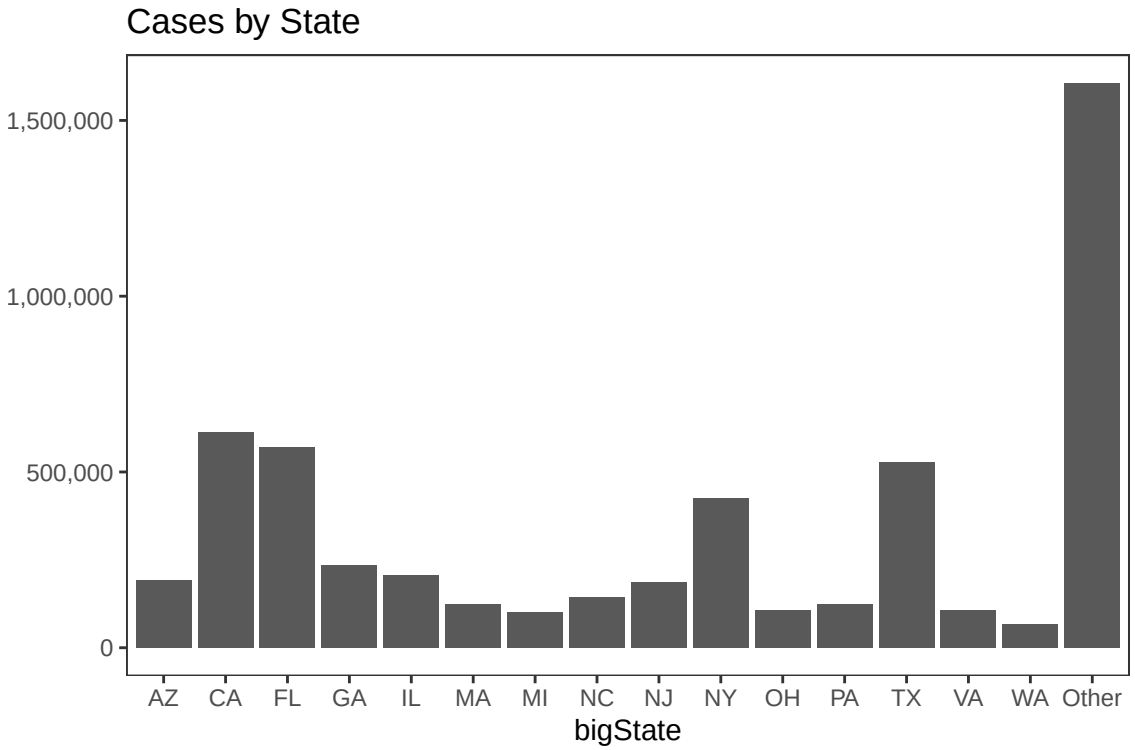

New Deaths by State
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
Deaths per Day
Mar
Apr
May
Jun
Date

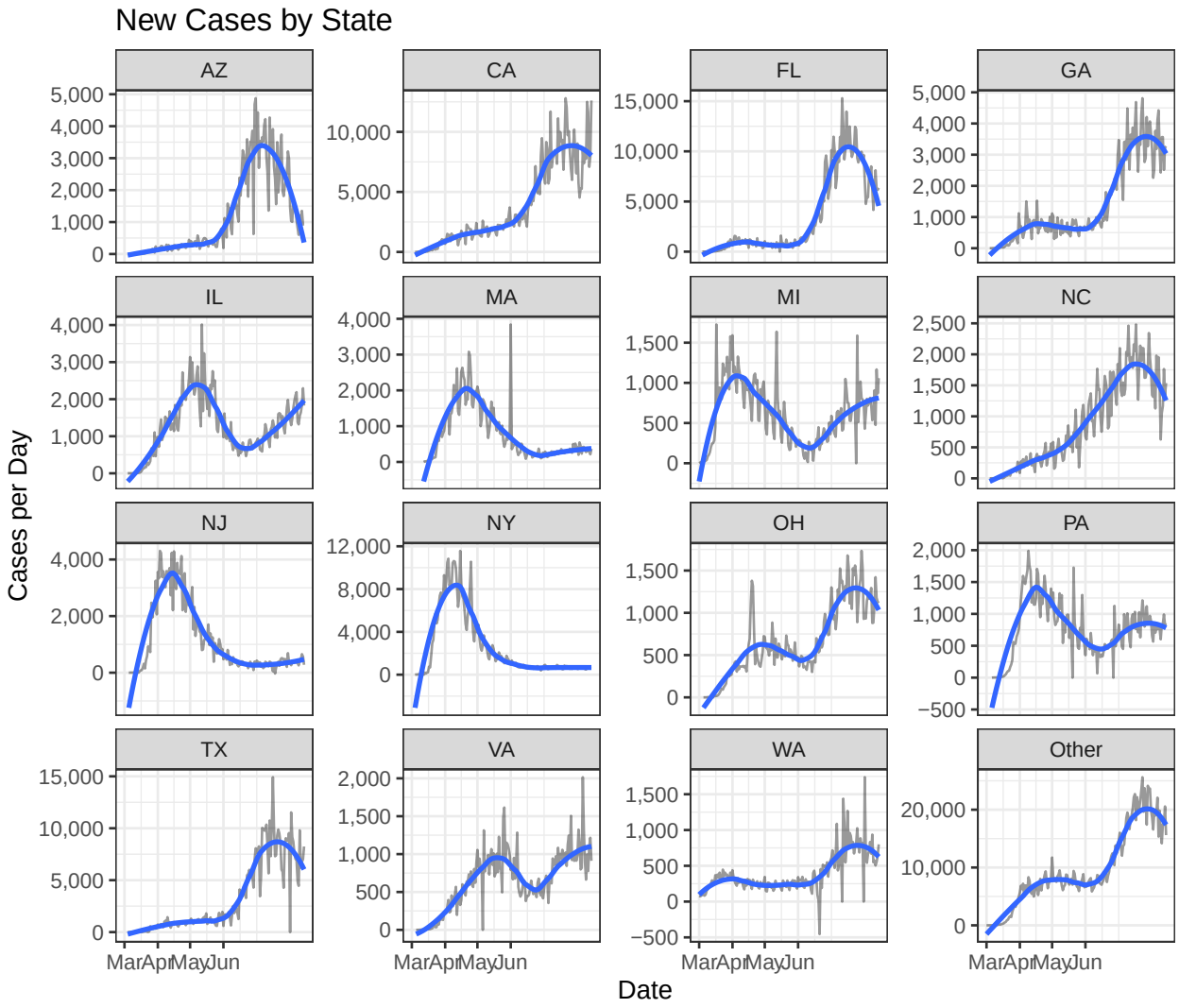

7−Day Change in Daily Deaths
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
7−Day Change
Mar
Apr
May
Jun
Date

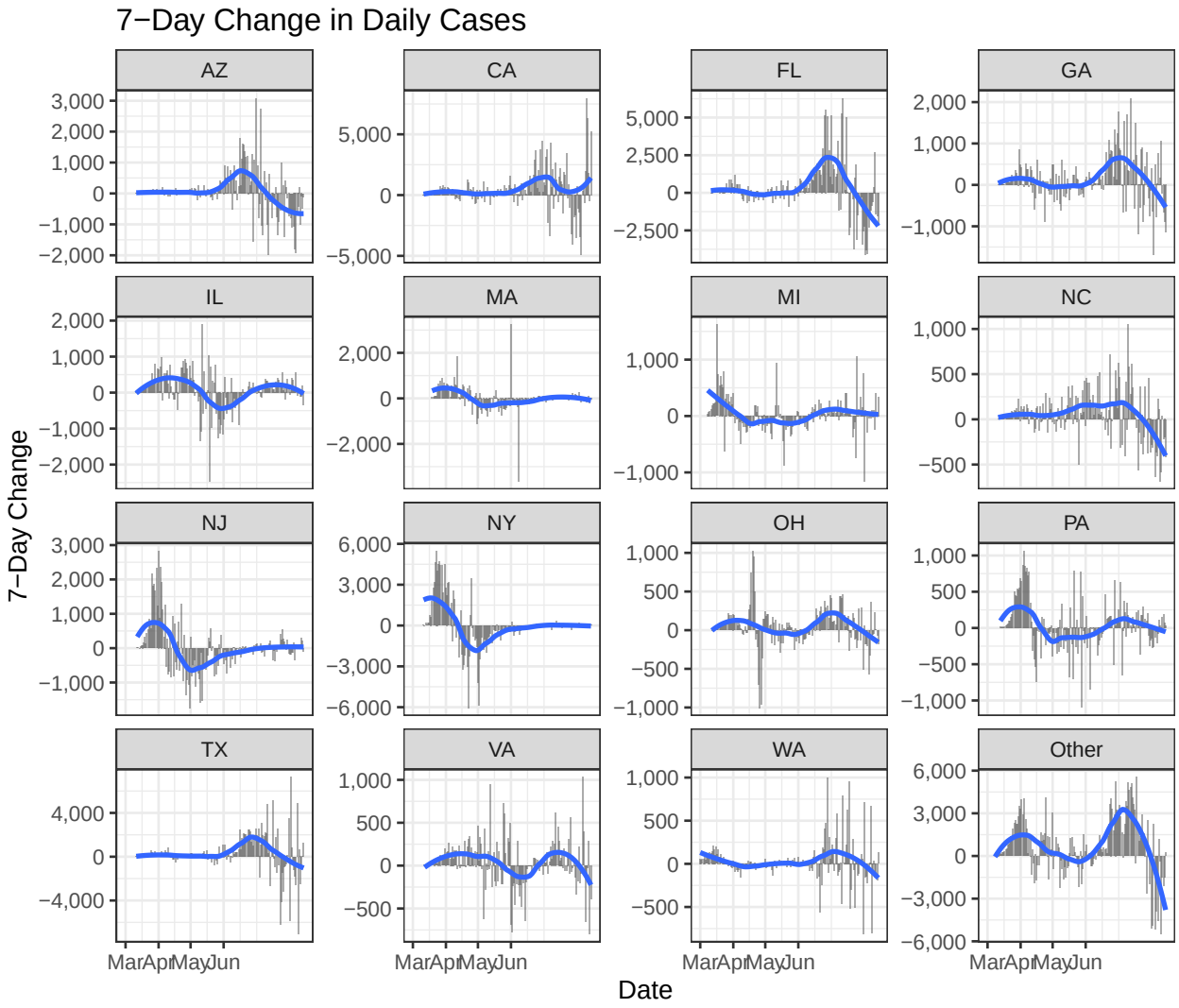

Deaths
32
100
316
1,000
3,162
10,000

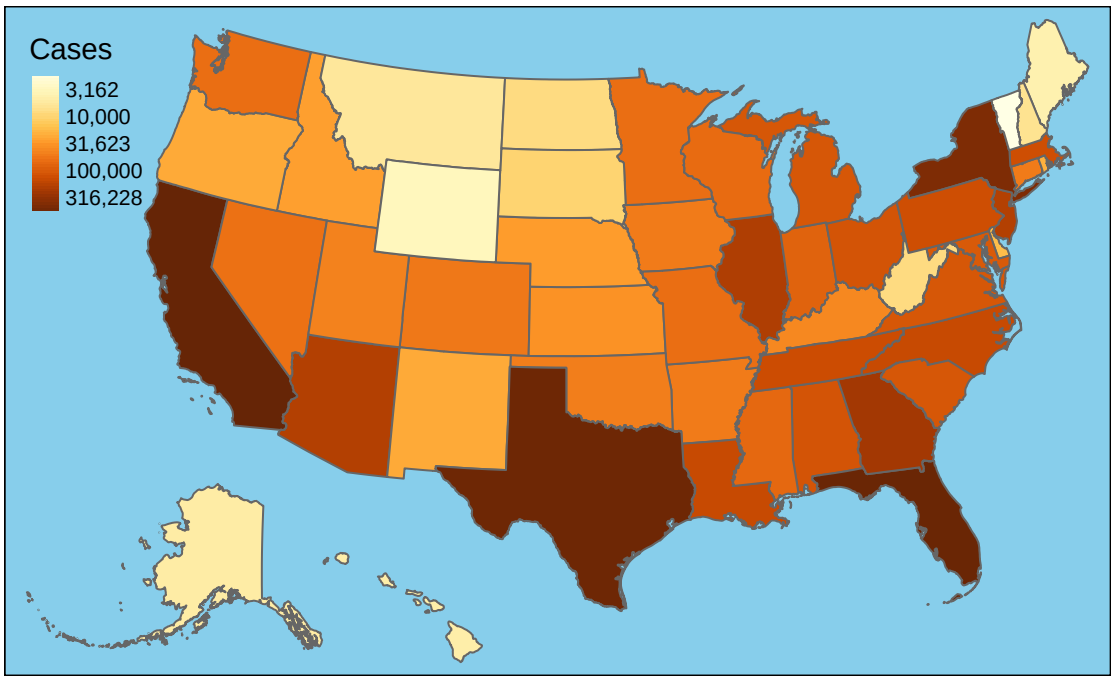

Deaths per 1M
32
100
316
1,000

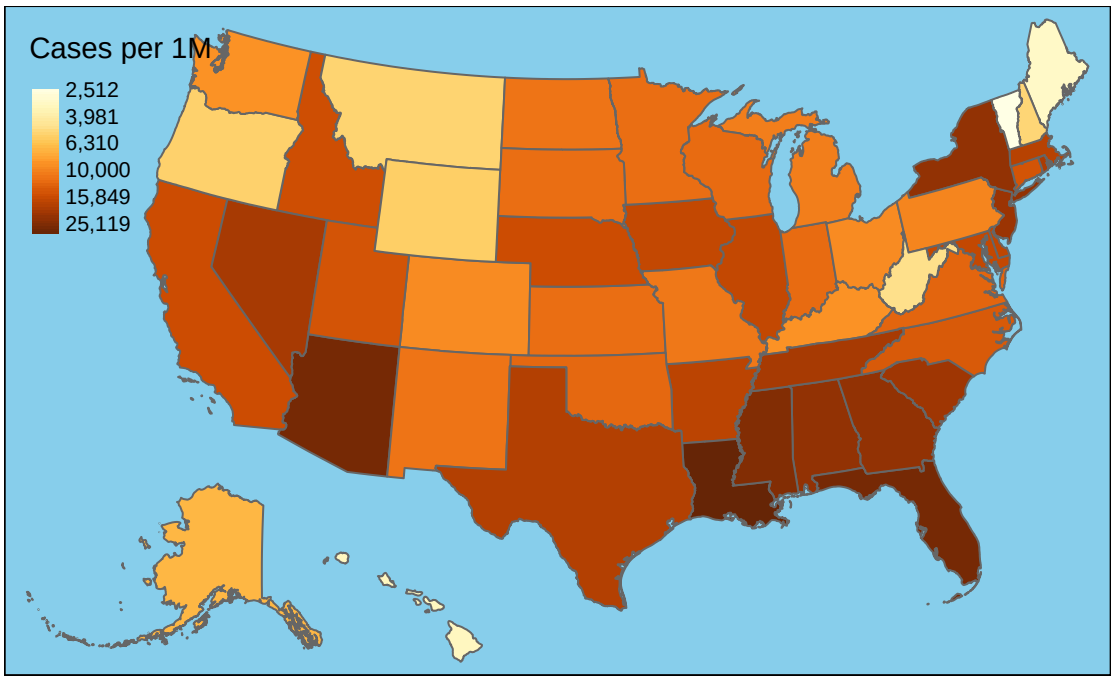
Cases


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

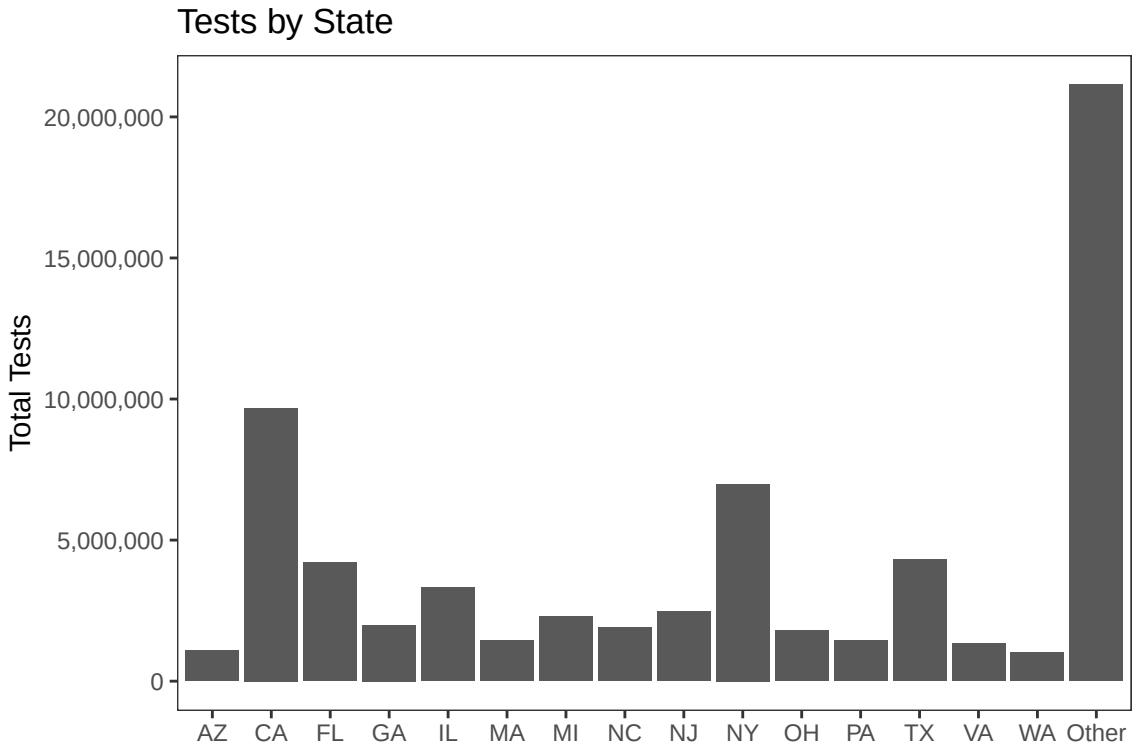

New Cases by State
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
Cases per Day
Mar
Apr
May
Jun
Date

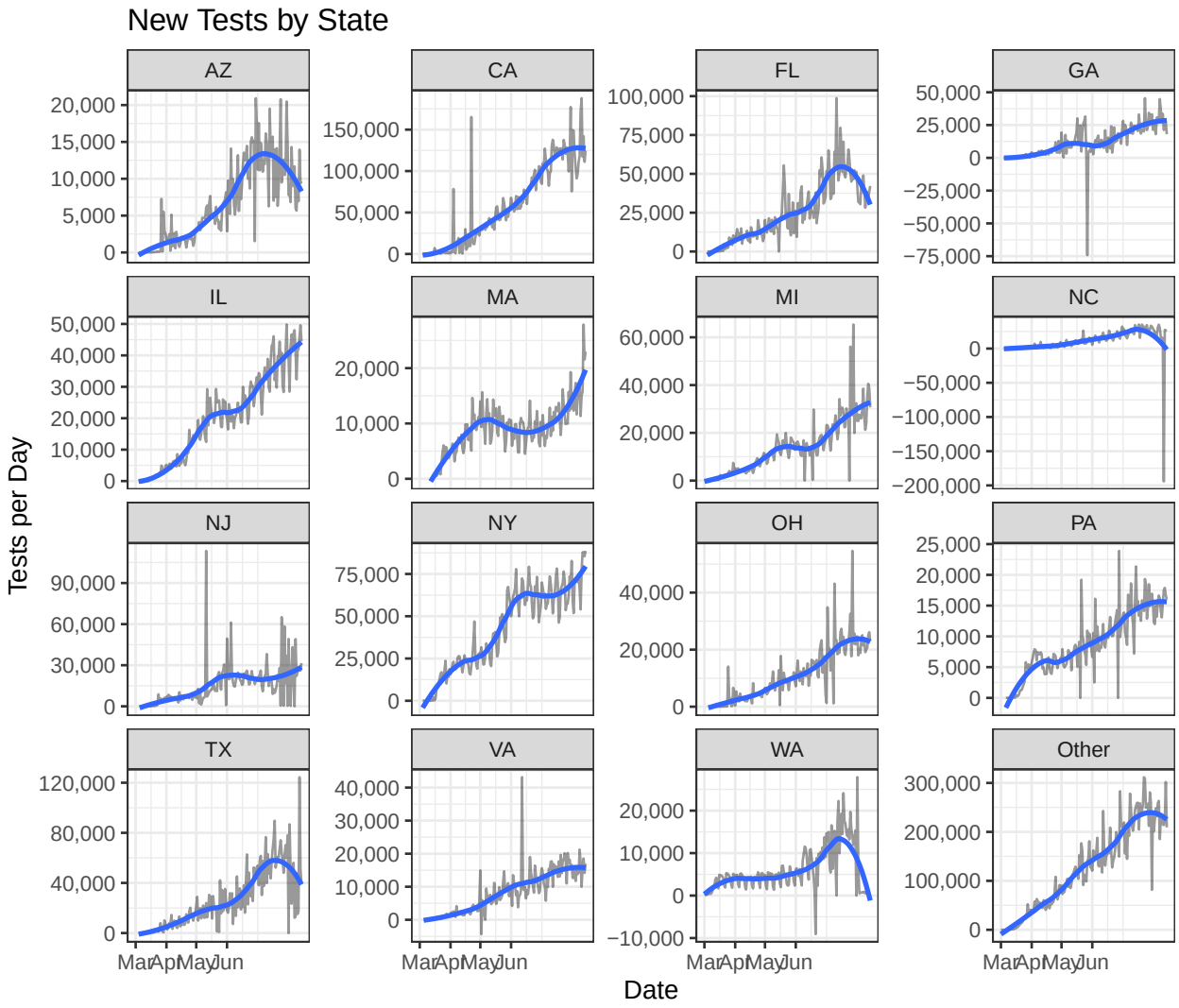

7−Day Change in Daily Cases
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
7−Day Change
Date
Mar
Apr
May
Jun

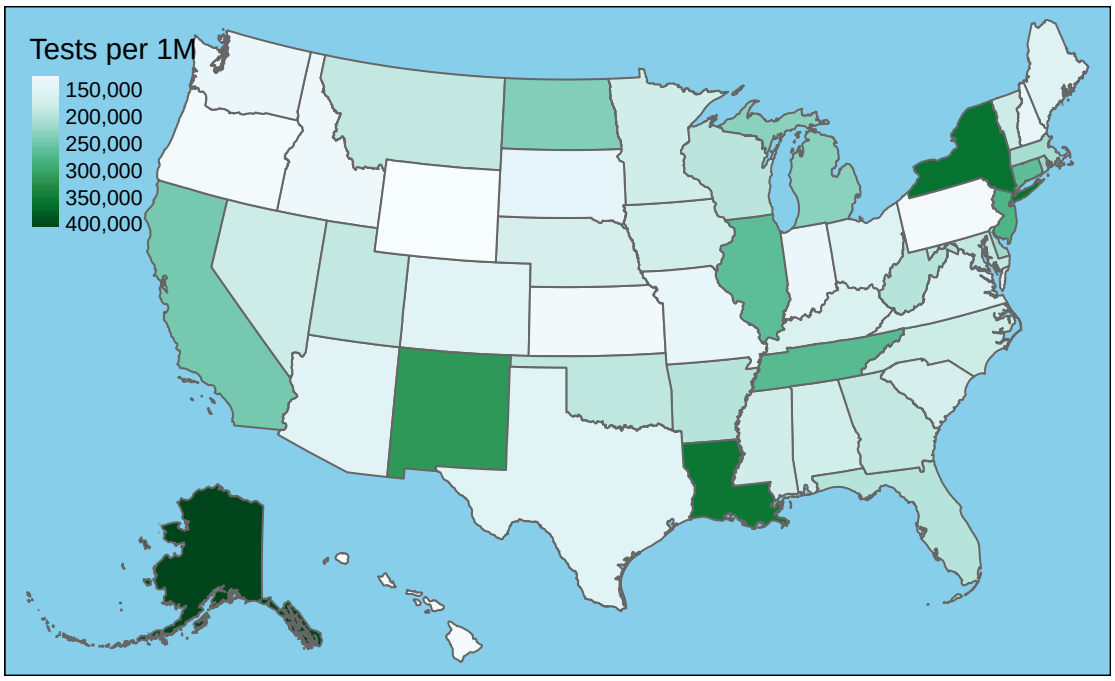

Cases
3,162
10,000
31,623
100,000
316,228

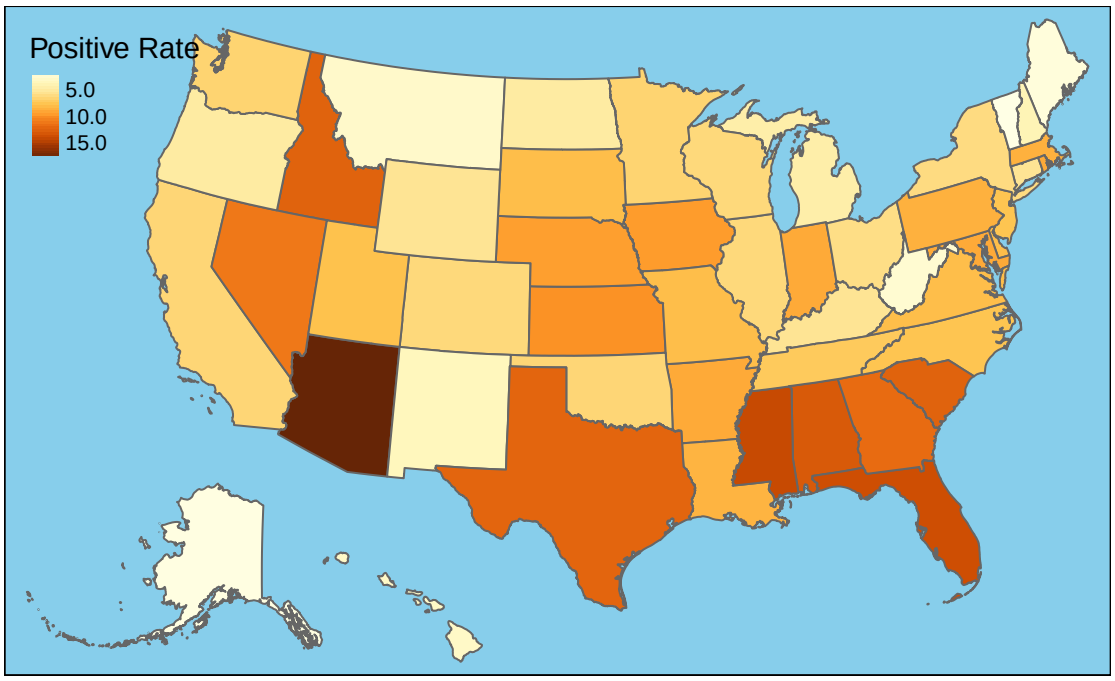

Cases per 1M
2,512
3,981
6,310
10,000
15,849
25,119

Testing

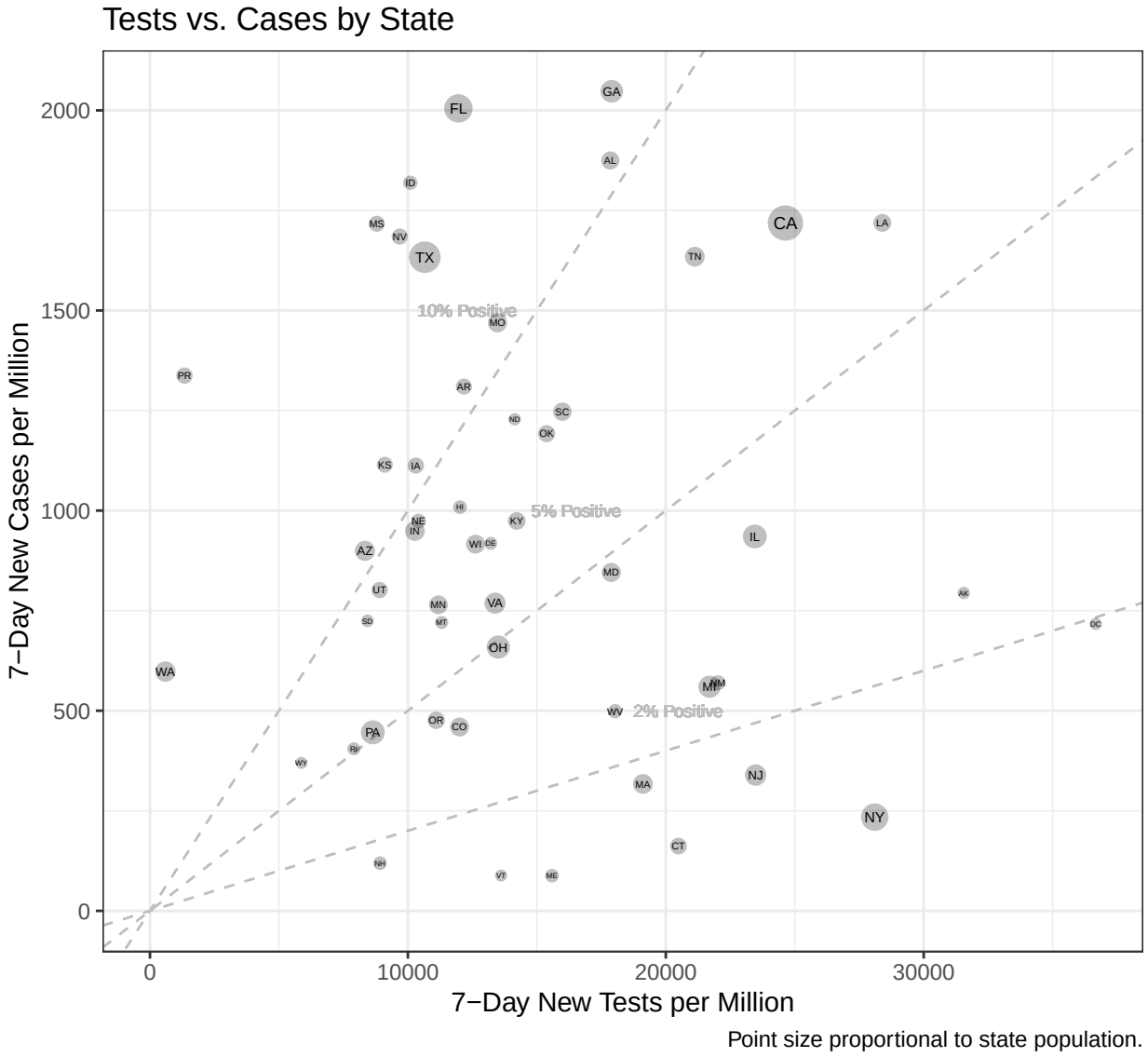

Tests by State
Total Tests
20,000,000
15,000,000
10,000,000
5,000,000
0
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other


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
150,000
200,000
250,000
300,000
350,000
400,000


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.



Point size proportional to state population.

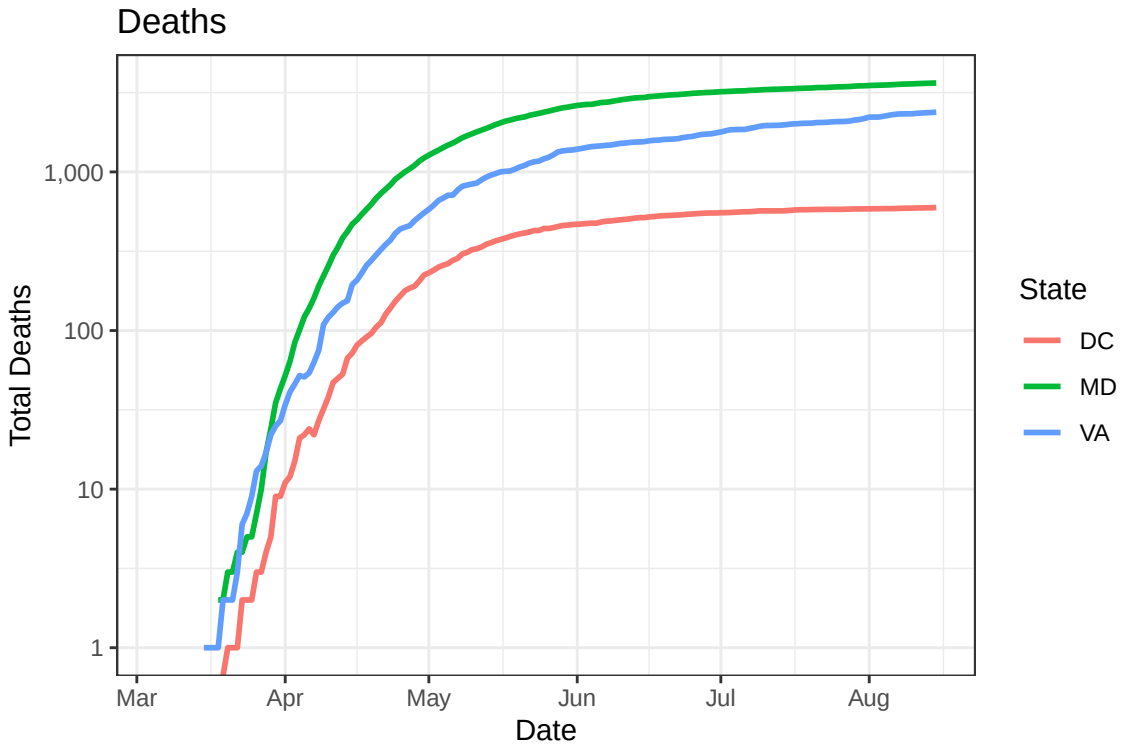
Local Data

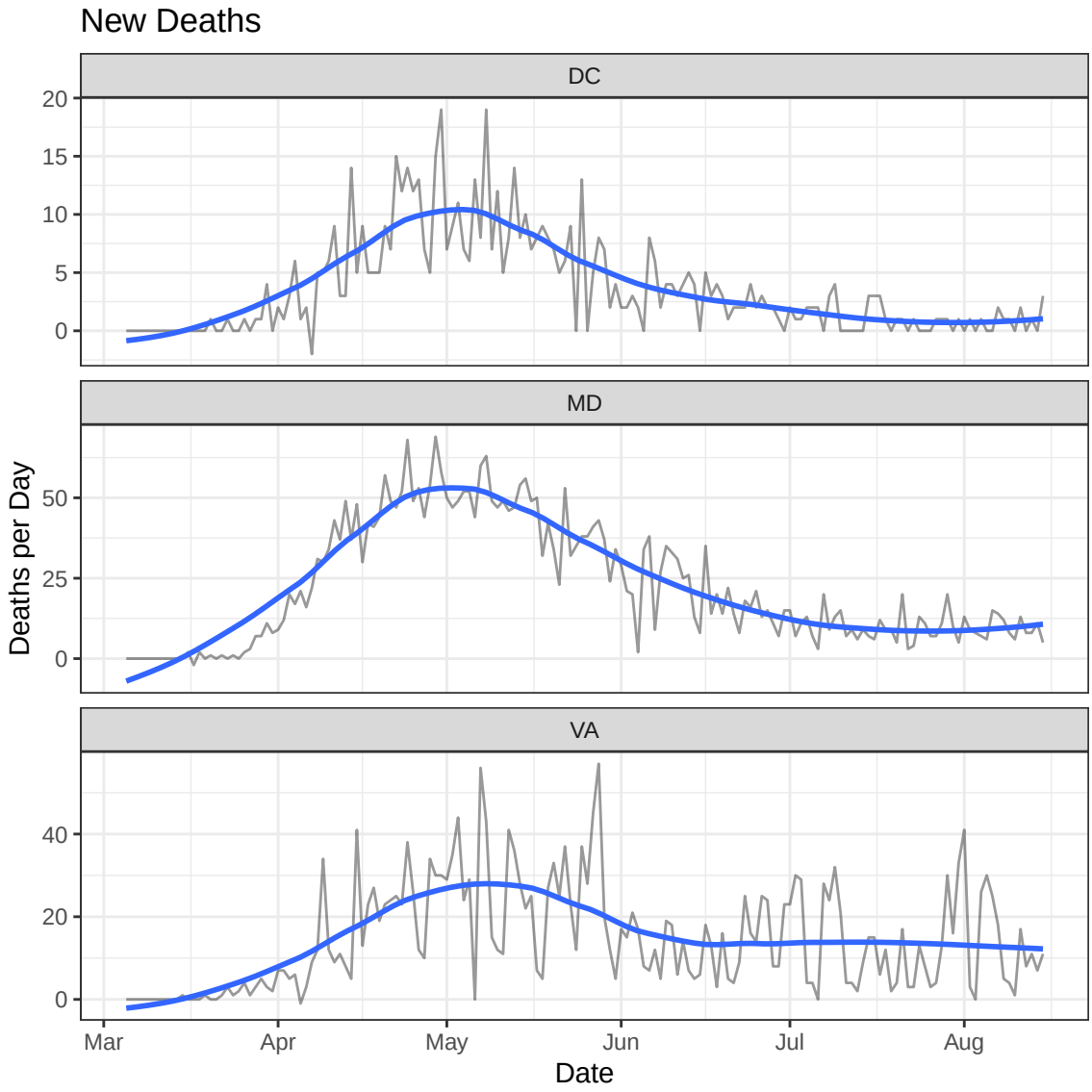
The following charts and tables present mortality, case, and testing data for the Washington DC metropolitan area and adjacent states.

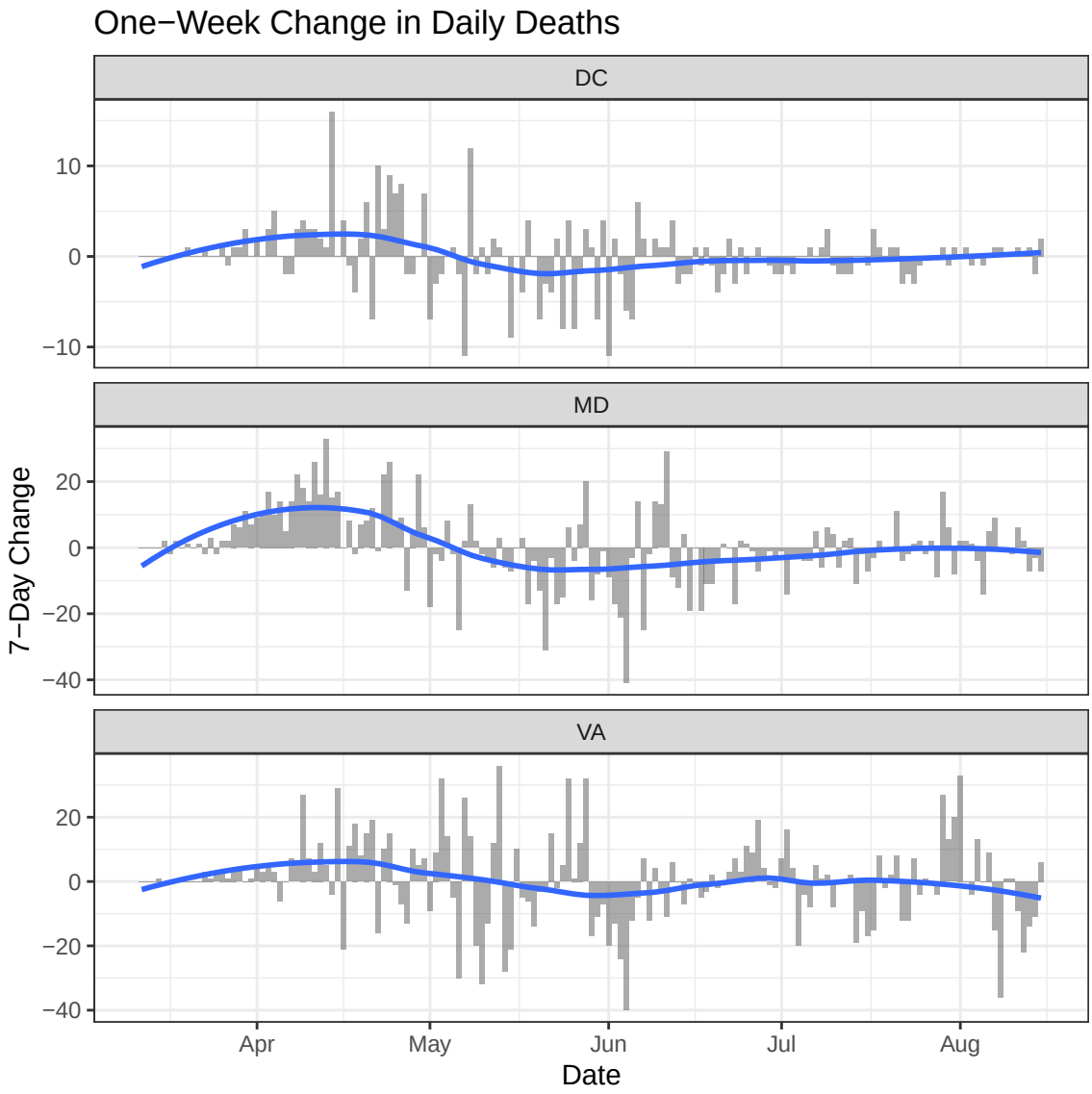
Table 3: Latest Local Data

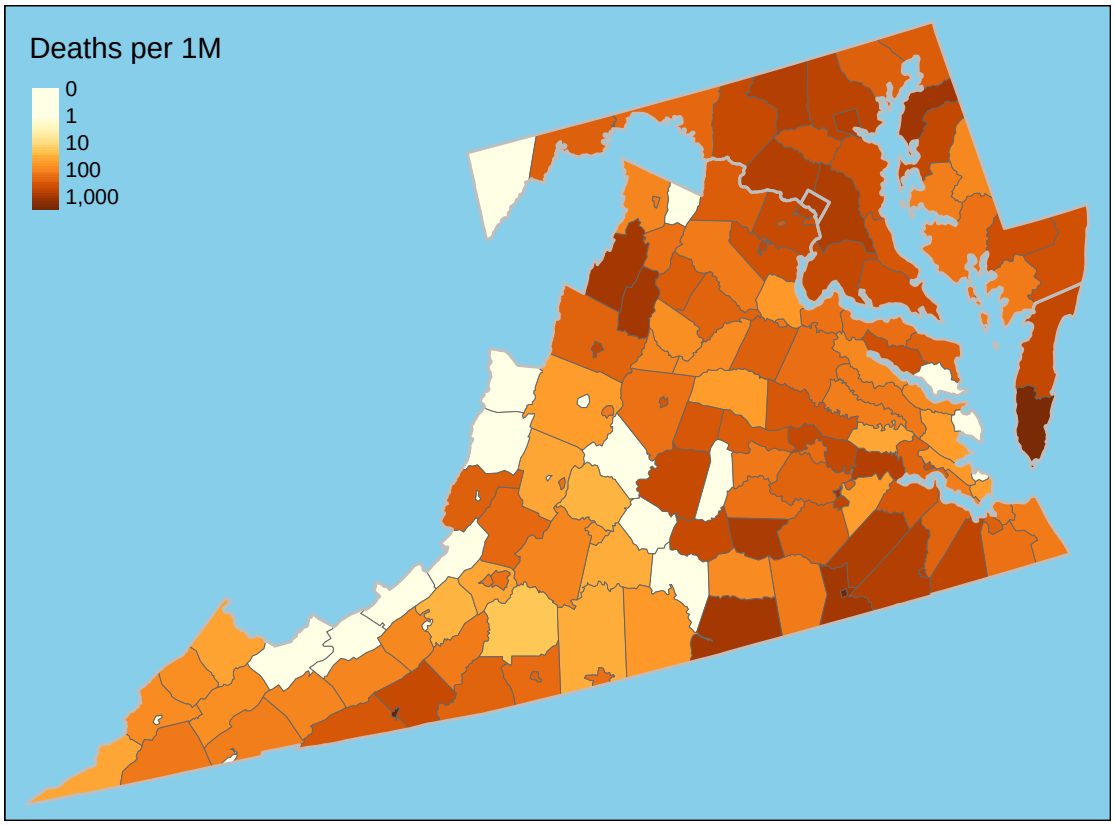
State	Cases	Deaths	New Cases	New Deaths
DC	13,159	597	41	3
MD	99,693	3,636	818	5
VA	105,750	2,381	912	11

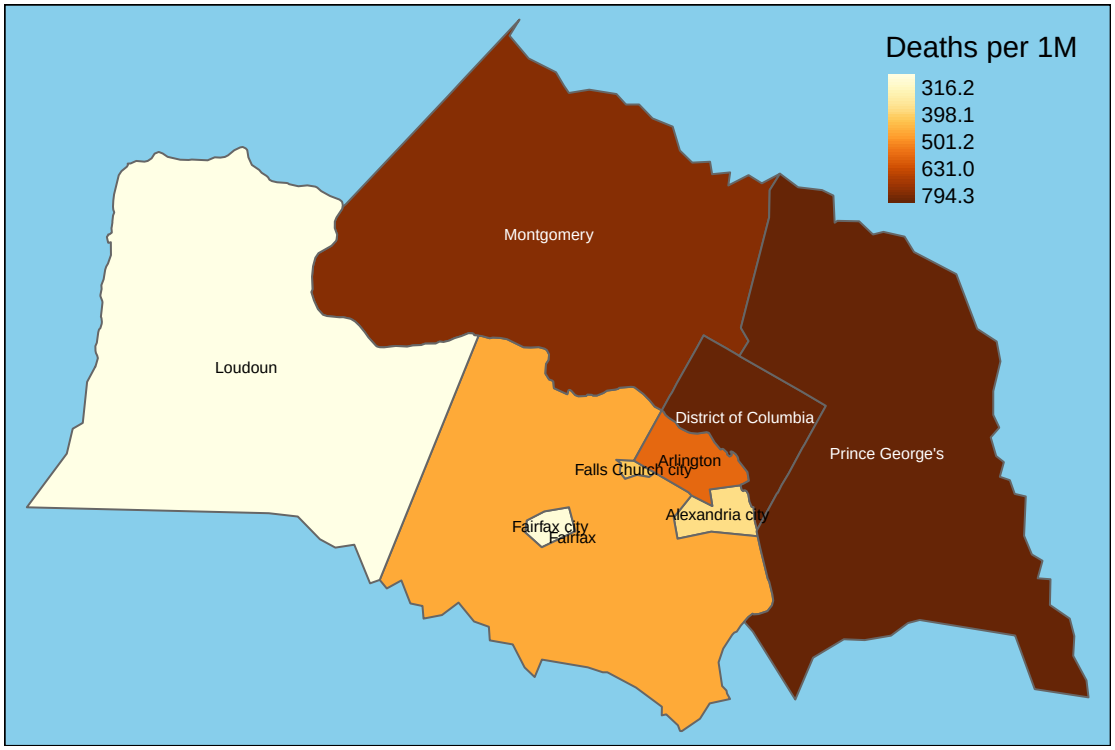
Deaths


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

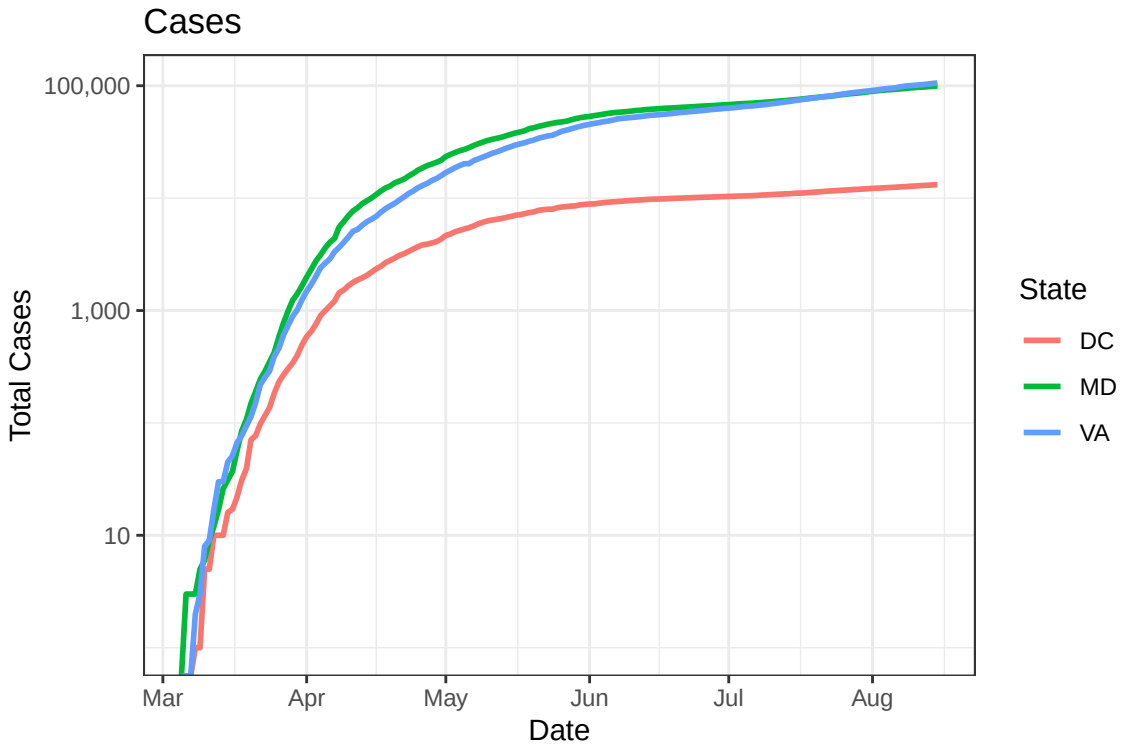

New Deaths
DC
MD
VA
Deaths per Day
Date
Mar
Apr
May
Jun
Jul
Aug

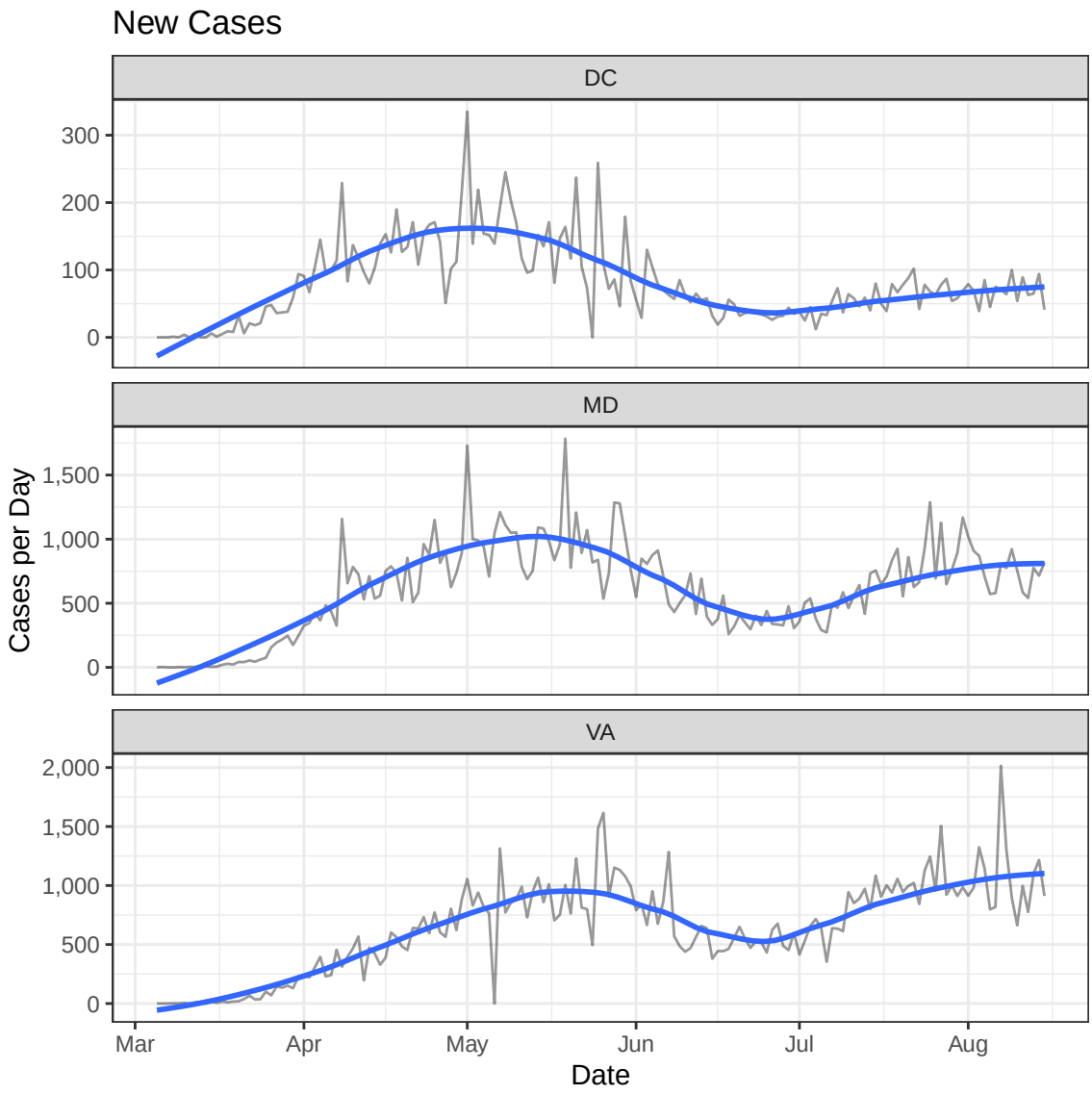

One−Week Change in Daily Deaths
DC
MD
VA
10
0
−10
20
0
−20
−40
7−Day Change
Apr
May
Jun
Jul
Aug
Date

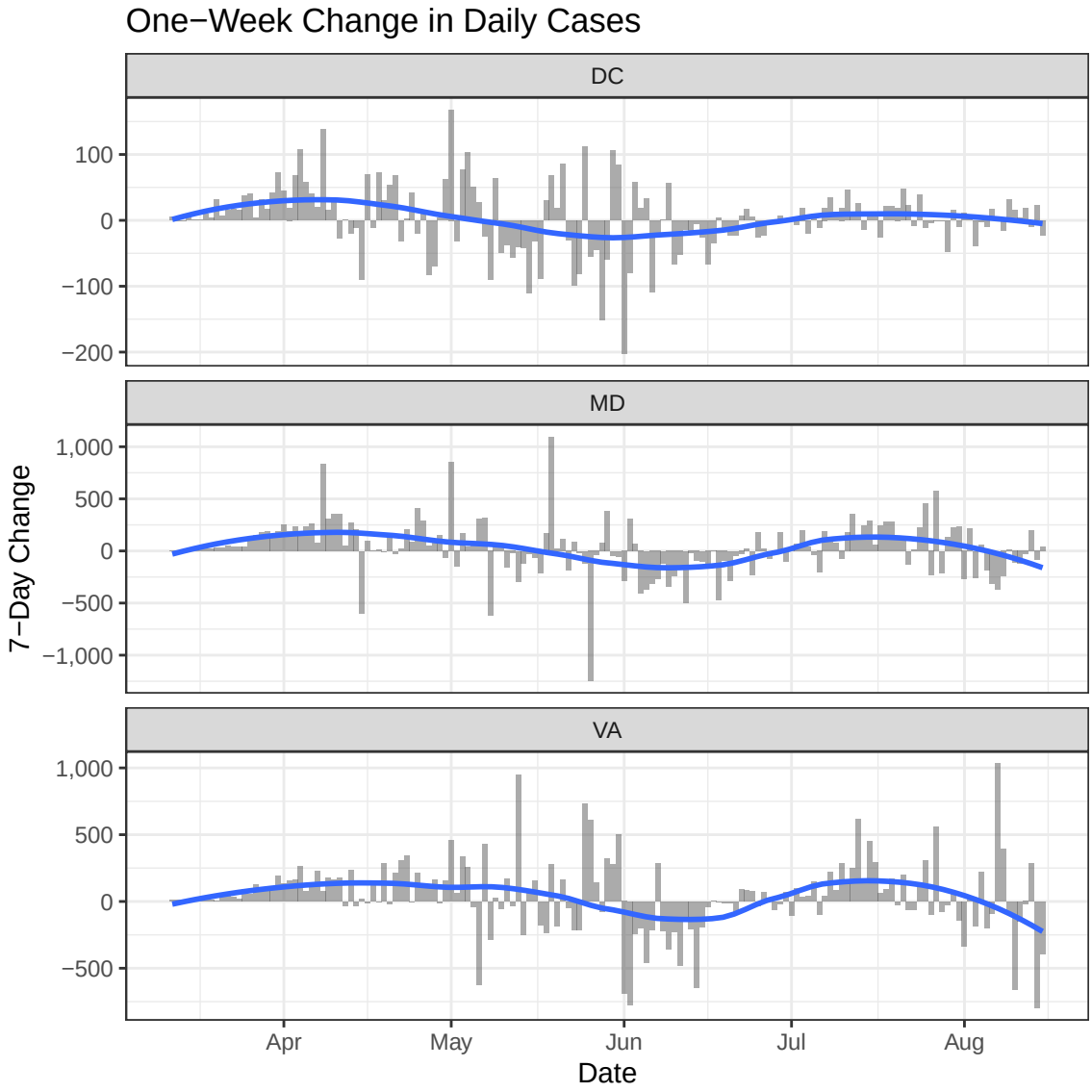

Deaths per 1M
0
1
10
100
1,000

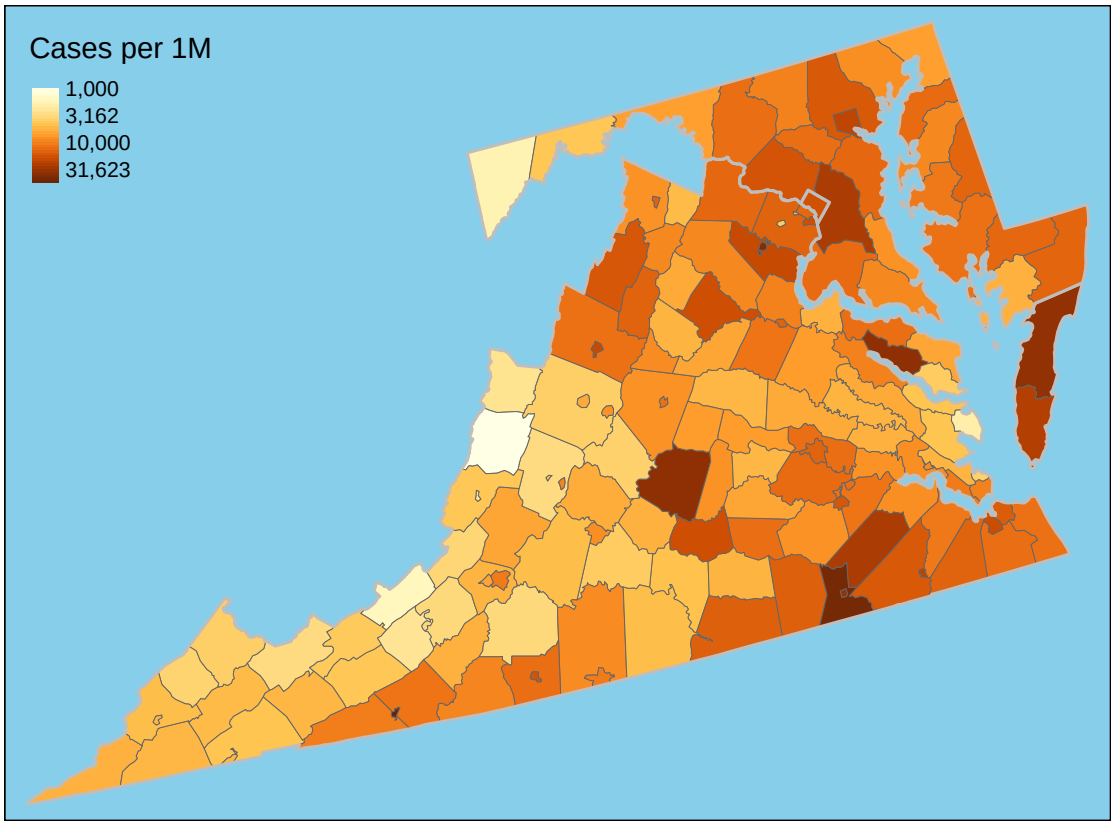

Deaths per 1M
316.2
398.1
501.2
631.0
794.3
Montgomery
Loudoun
District of Columbia
Prince George's
Arlington
Falls Church city
Alexandria city
Fairfax city
Fairfax

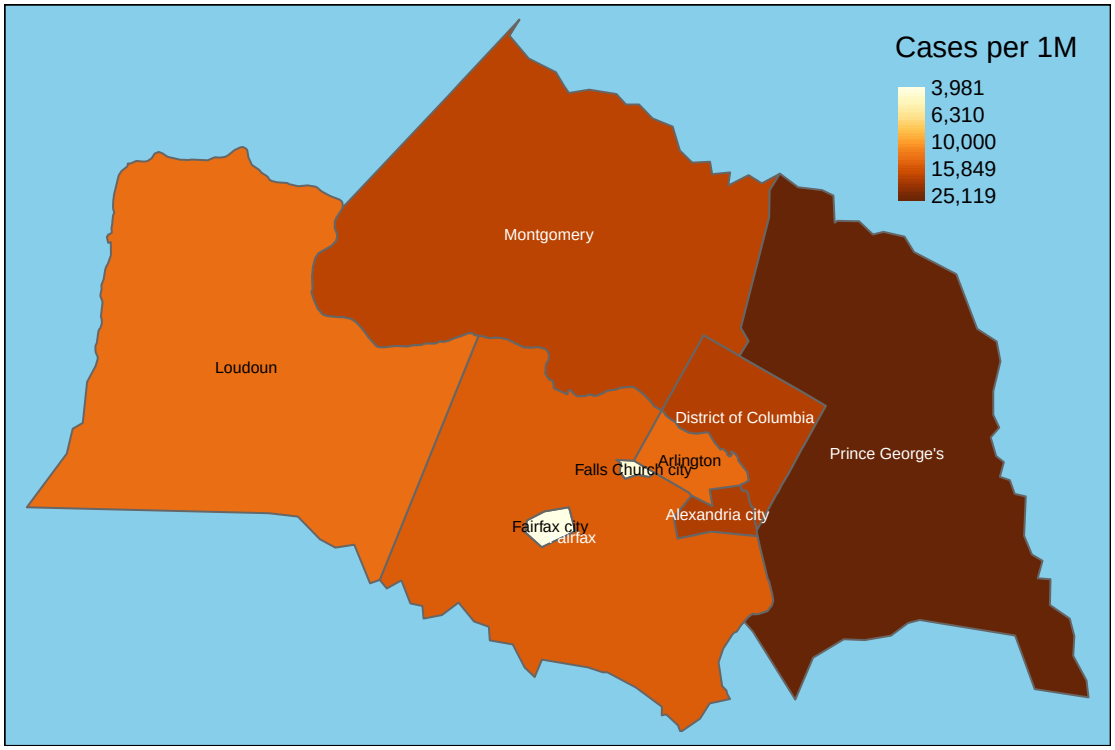
Cases


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

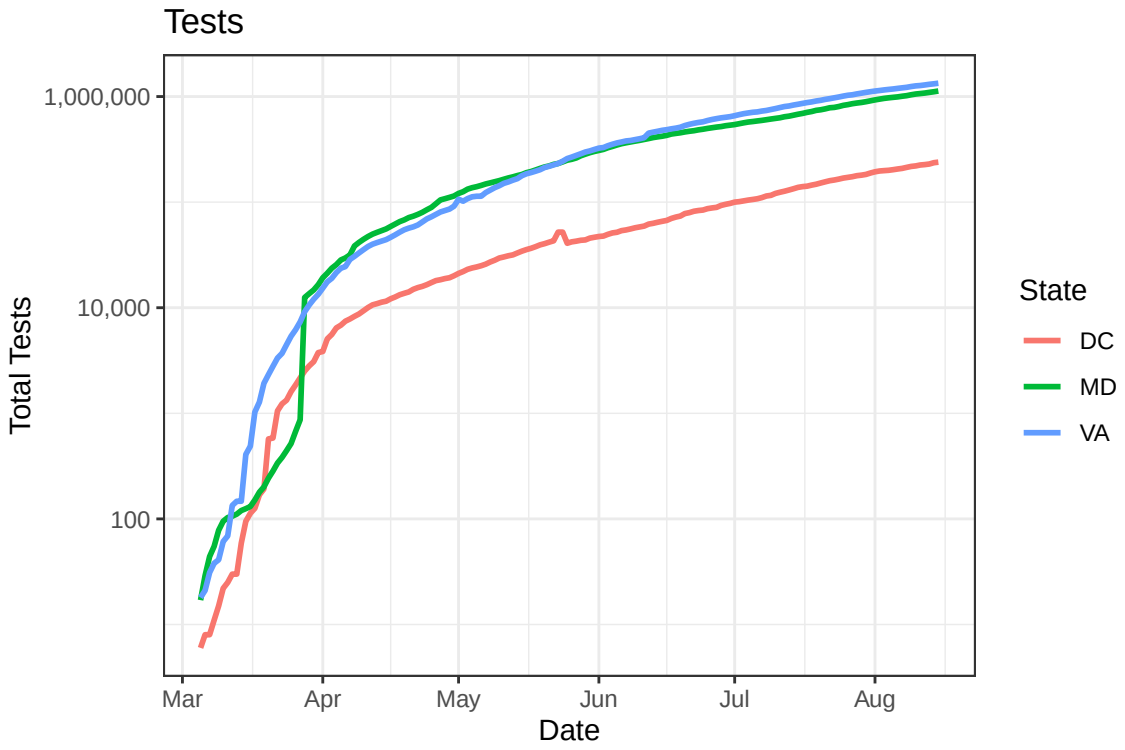

New Cases
DC
MD
VA
Cases per Day
300
200
100
0
1,500
1,000
500
0
2,000
1,500
1,000
500
0
Mar
Apr
May
Jun
Jul
Aug
Date

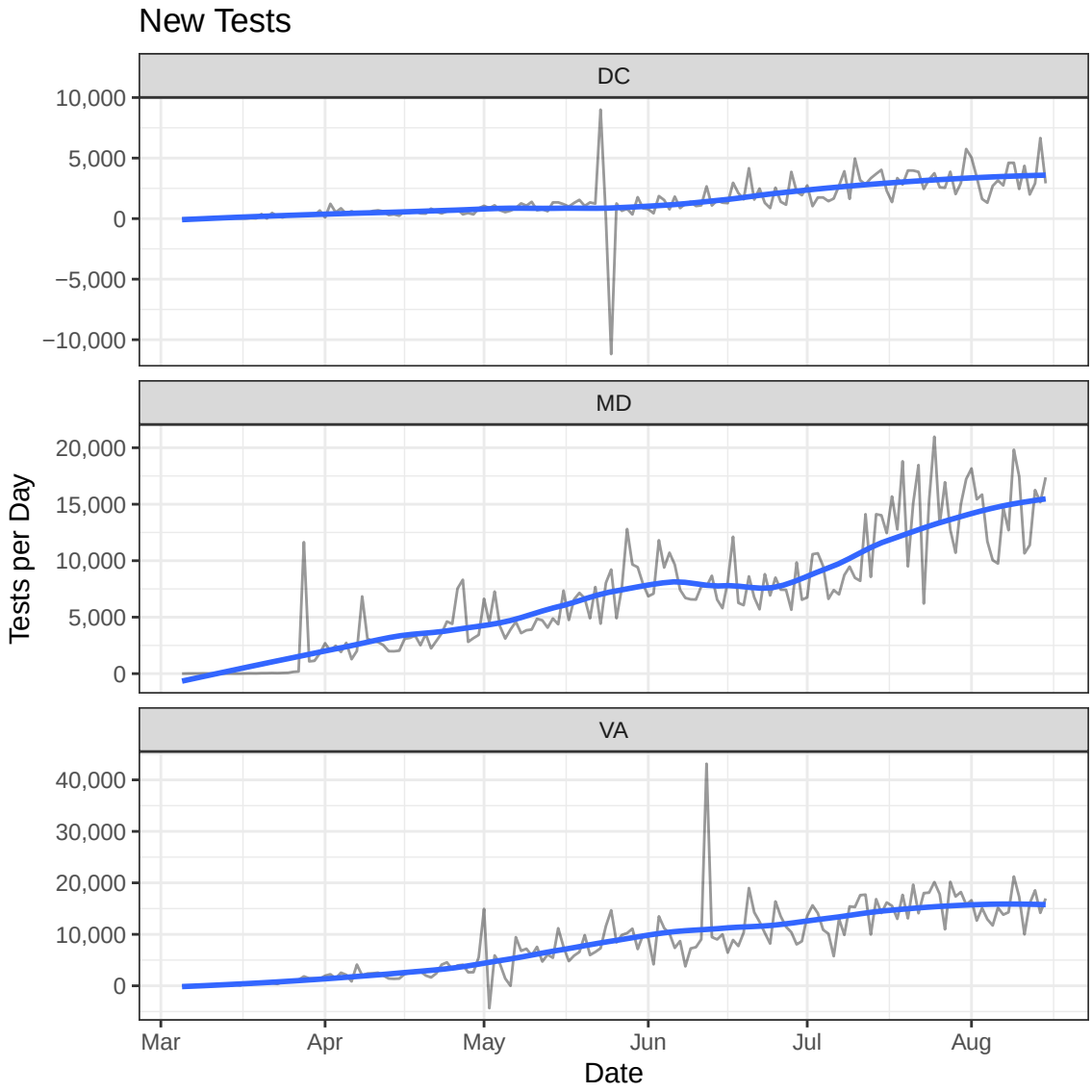

One−Week Change in Daily Cases
DC
MD
VA
7−Day Change
100
0
−100
−200
1,000
500
0
−500
−1,000
Apr
May
Jun
Jul
Aug
Date

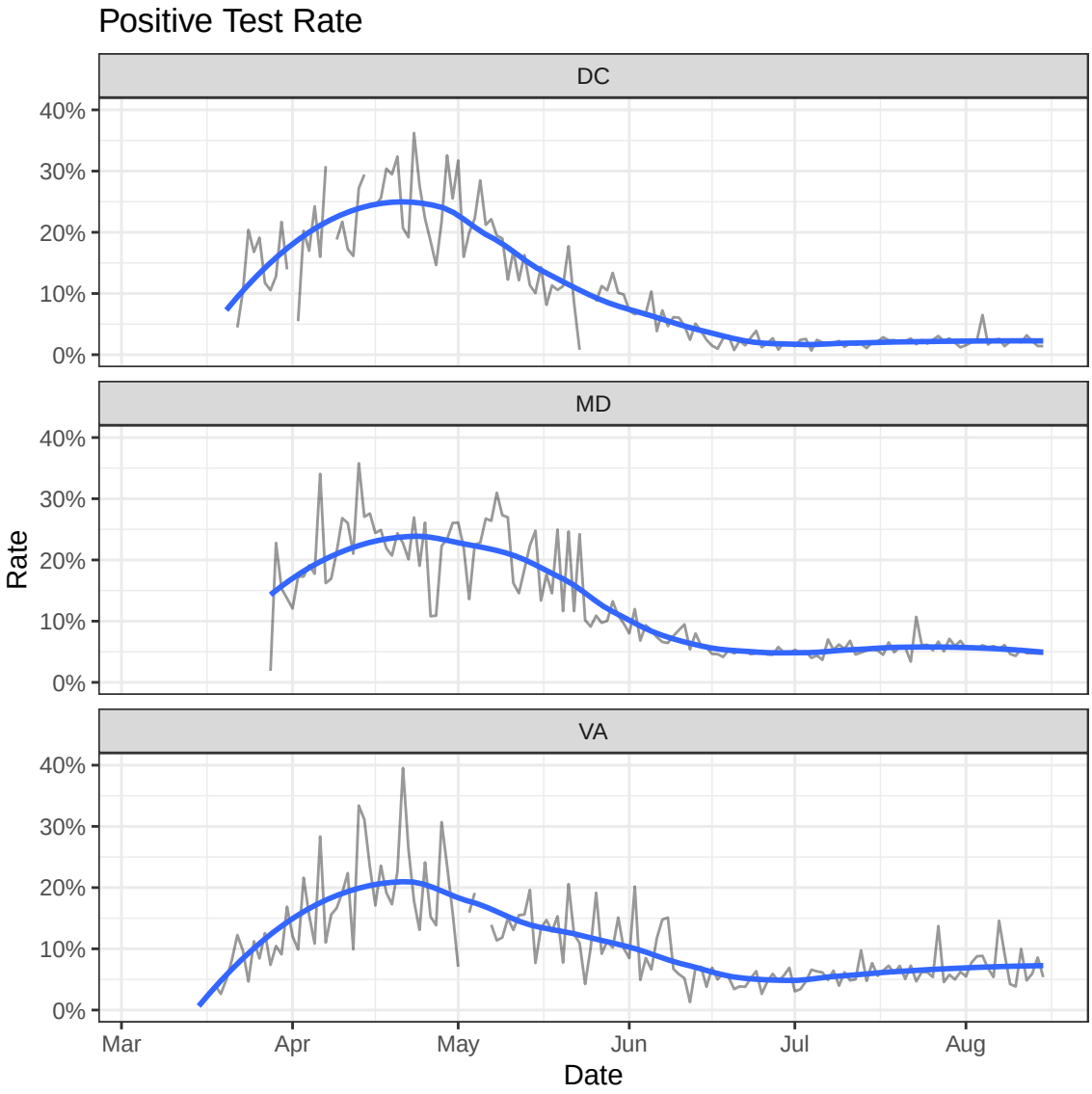

Cases per 1M
1,000
3,162
10,000
31,623


Cases per 1M
3,981
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
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