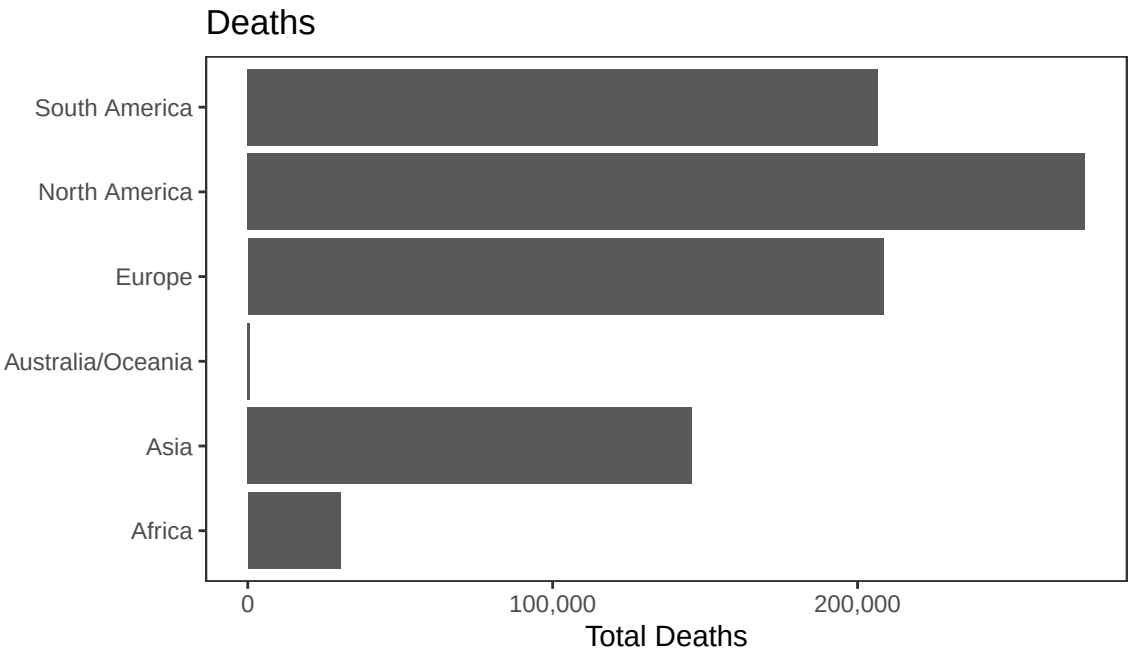
Erik's Covid-19 Chart Pack

Data updated 2020-09-02 21:40:52. 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 26,170,324 confirmed Covid-19 cases and 866,614 deaths worldwide.



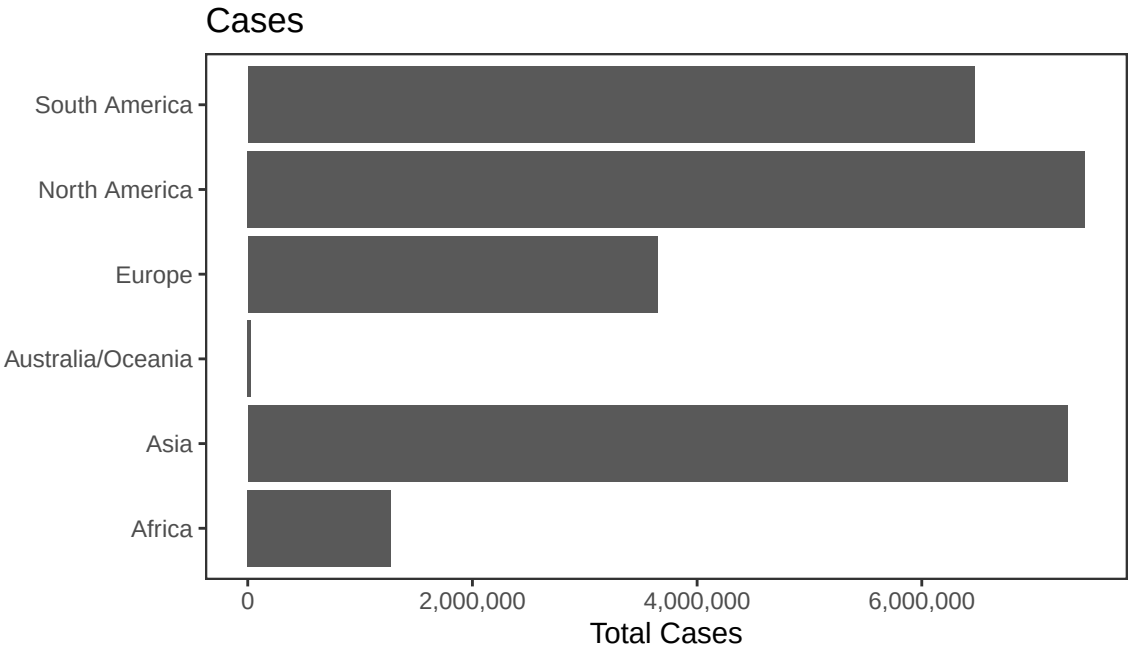
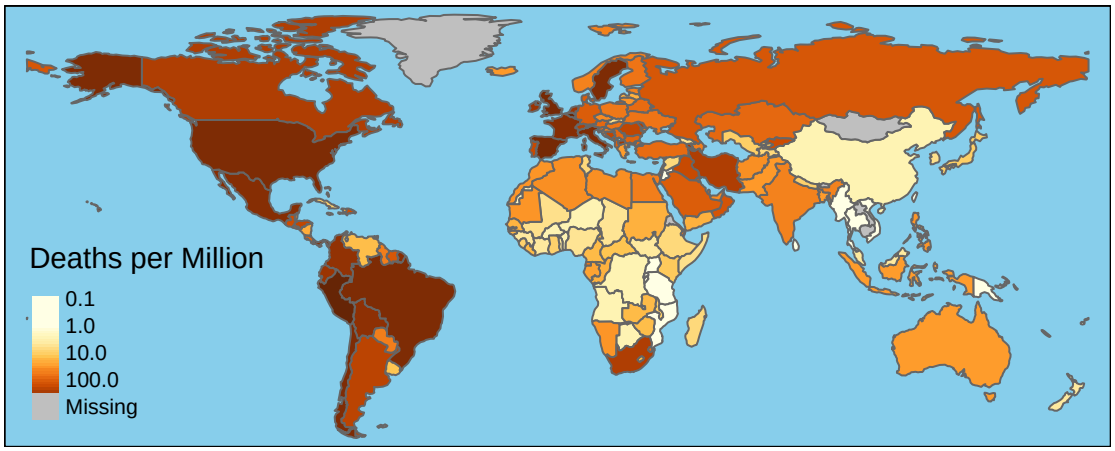
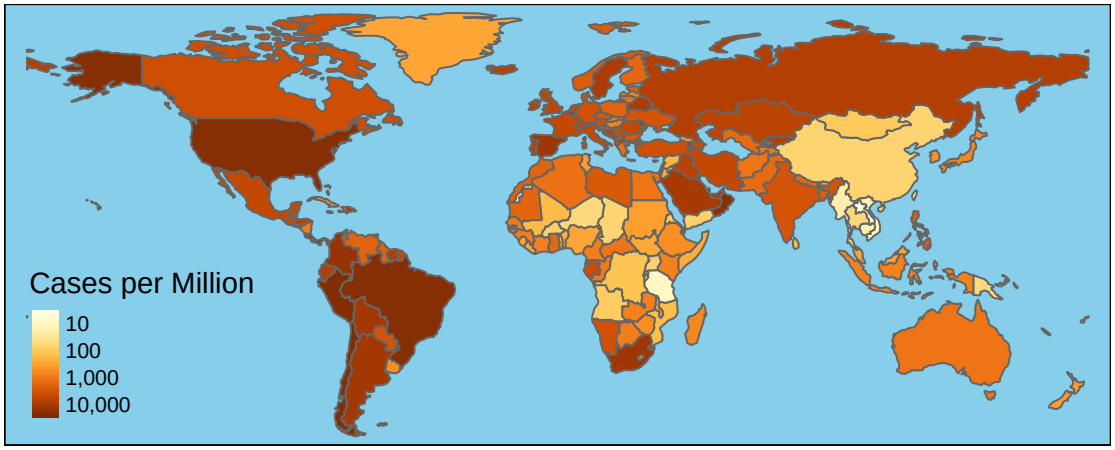
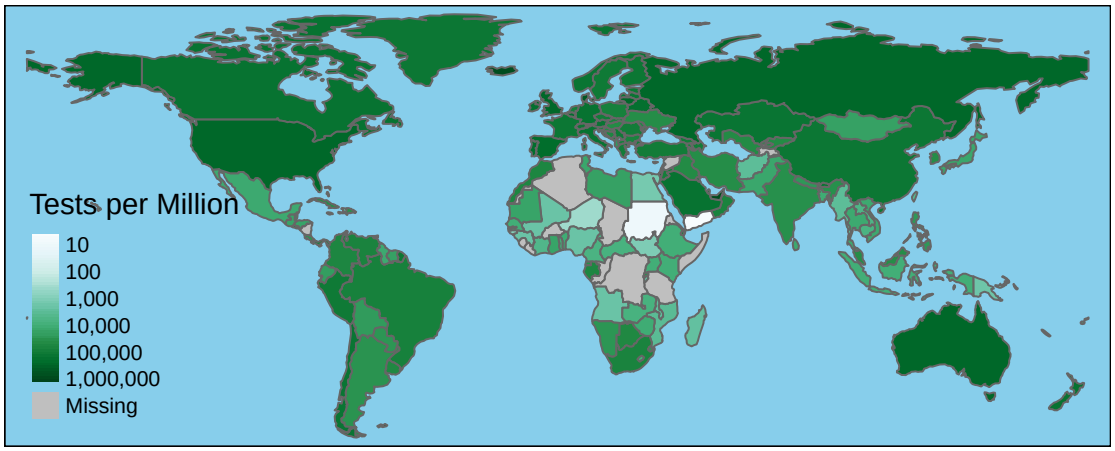


Table 1: Top Countries by Total Cases

Country	Cases	Deaths	New Cases	New Deaths
USA	6,290,737	189,964	41,211	1,090
Brazil	4,001,422	123,899	48,632	1,218
India	3,848,968	67,486	82,860	1,026
Russia	1,005,000	17,414	4,952	115
Peru	663,437	29,259	6,308	191
Colombia	633,339	20,348	9,270	296
South Africa	630,595	14,389	2,336	126
Mexico	606,036	65,241	6,476	827
Spain	479,554	29,194	8,581	42
Argentina	439,172	9,118	10,933	199
Chile	414,739	11,344	1,594	23
Iran	378,752	21,797	1,858	125
UK	338,676	41,514	1,508	10
Bangladesh	317,528	4,351	2,582	35
Saudi Arabia	317,486	3,956	816	27
Pakistan	296,590	6,318	441	20
France	293,024	30,686	7,017	25
Turkey	273,301	6,462	1,596	45
Italy	271,515	35,497	1,326	6
Germany	247,391	9,393	1,390	12


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

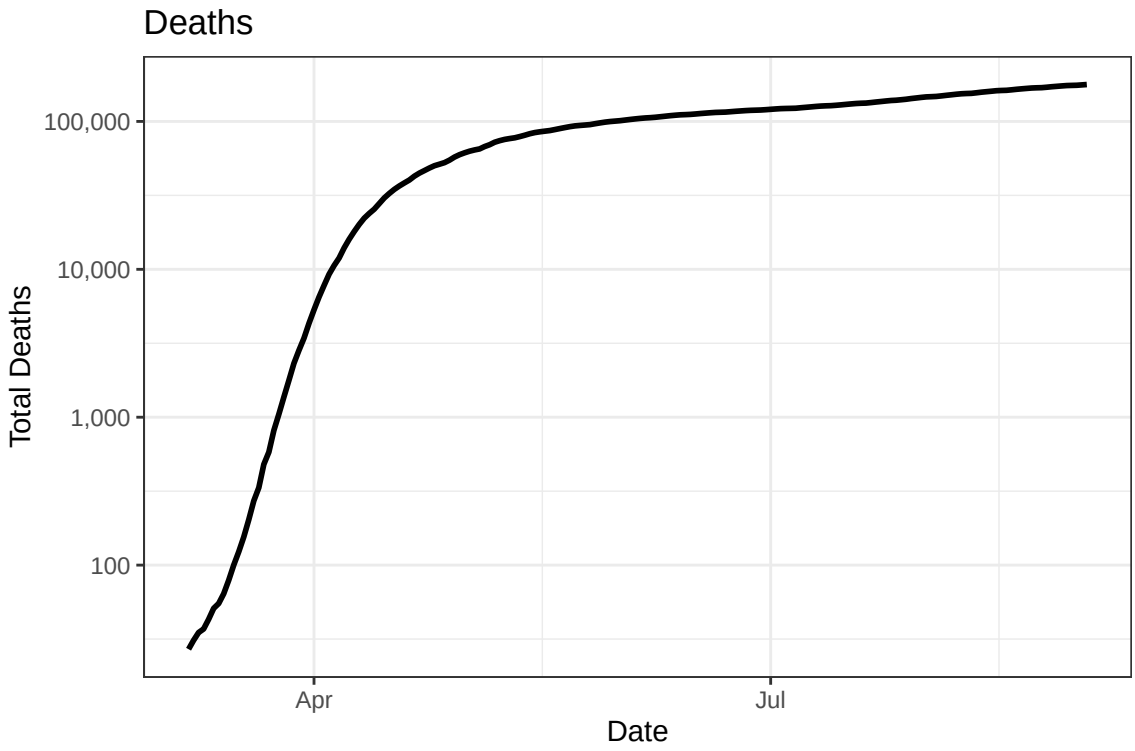
There have been 6,072,291 confirmed Covid-19 cases and 177,645 deaths in the United States.

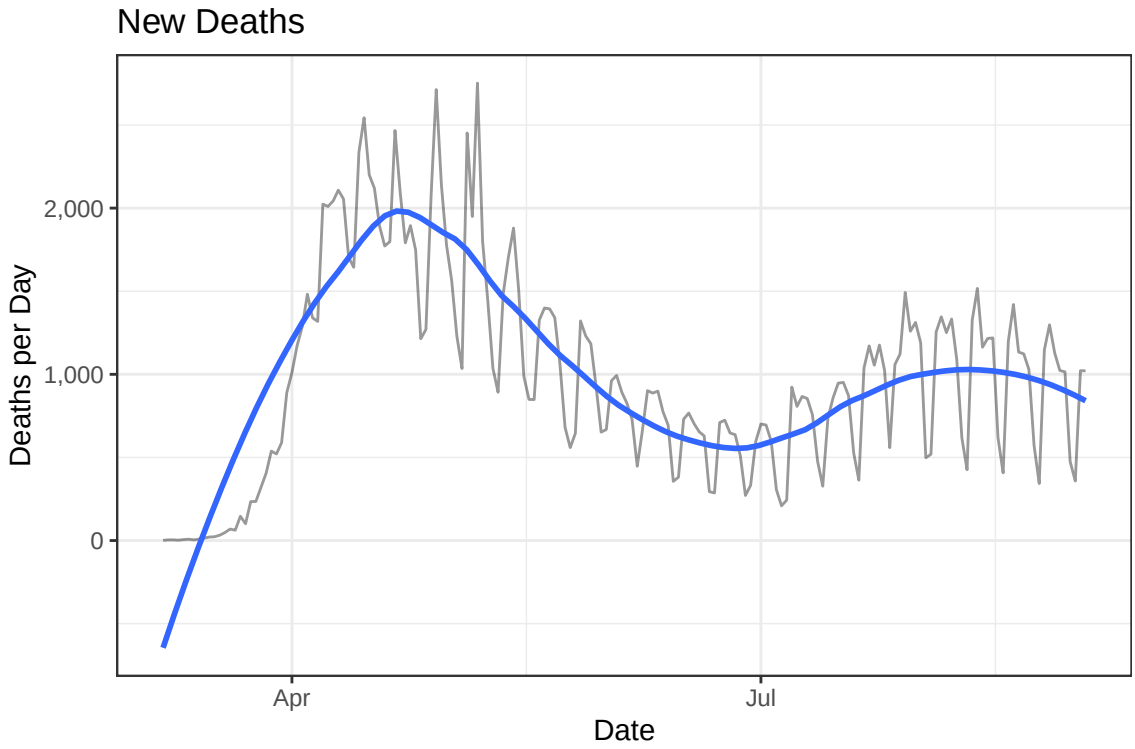
Table 2: U.S. Deaths and Cases over the Last Two Weeks

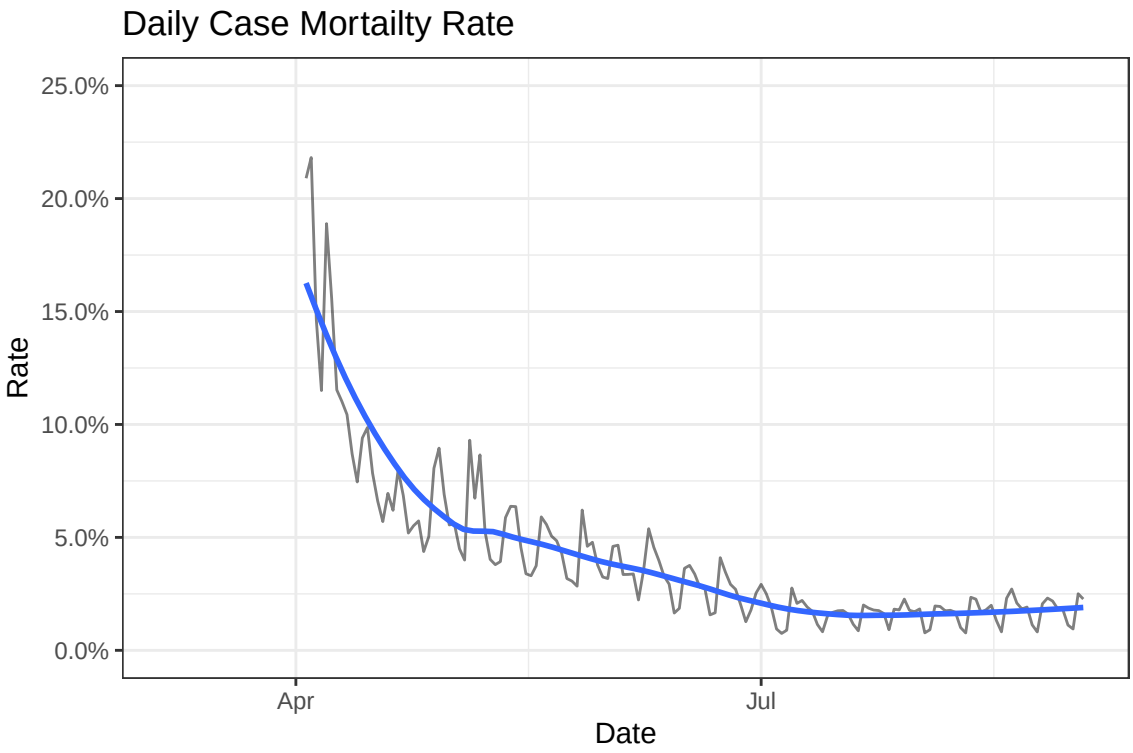
Date	Cases	Deaths	New Cases	New Deaths
2020-09-02	6,072,291	177,645	30,409	1,021
2020-09-01	6,041,882	176,624	42,423	1,022
2020-08-31	5,999,459	175,602	31,406	358
2020-08-30	5,968,053	175,244	39,498	475
2020-08-29	5,928,555	174,769	44,502	1,015
2020-08-28	5,884,053	173,754	46,546	1,023
2020-08-27	5,837,507	172,731	43,984	1,129
2020-08-26	5,793,523	171,602	43,356	1,298
2020-08-25	5,750,167	170,304	36,374	1,147
2020-08-24	5,713,793	169,157	34,641	343
2020-08-23	5,679,152	168,814	37,567	572
2020-08-22	5,641,585	168,242	46,242	1,029
2020-08-21	5,595,343	167,213	46,562	1,123
2020-08-20	5,548,781	166,090	43,758	1,134

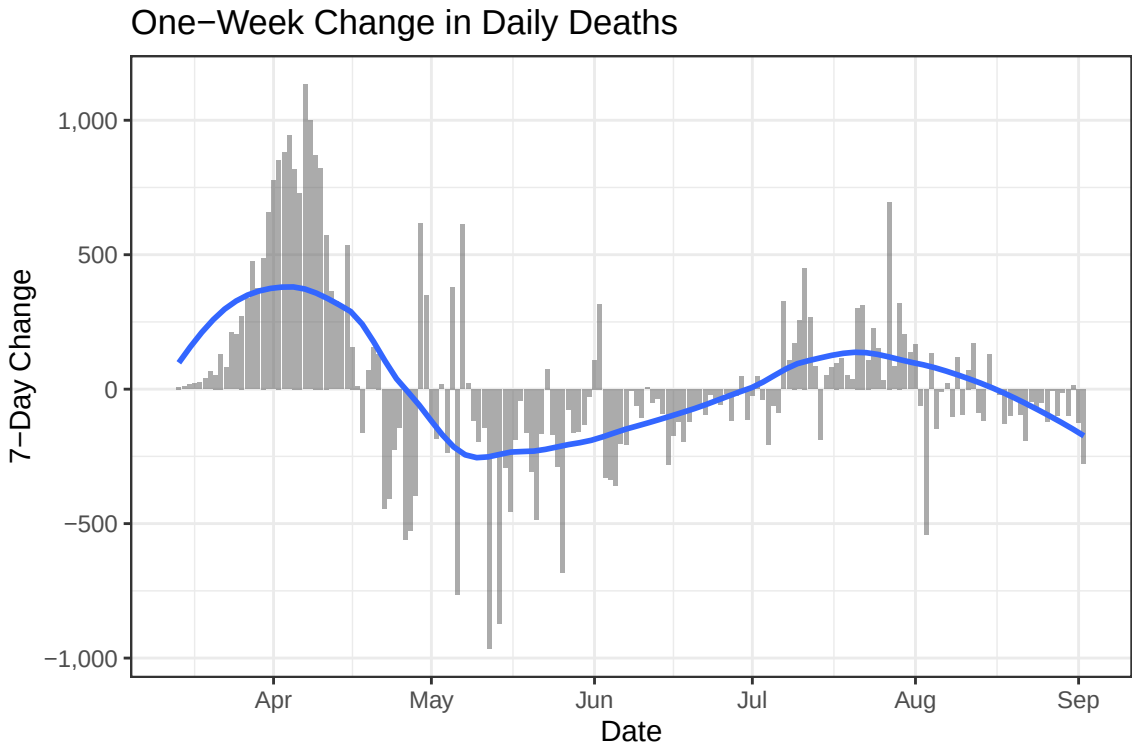
Deaths

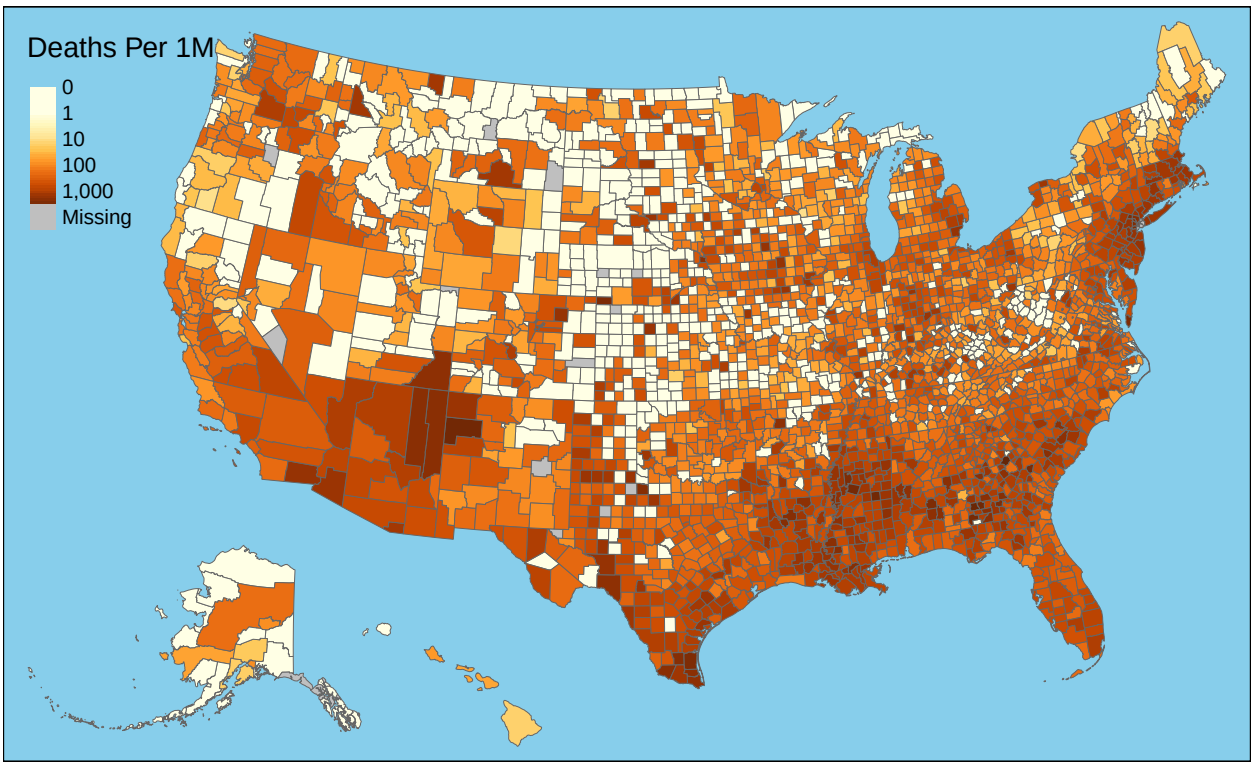
Because the effects of the virus can take several weeks to manifest in patients, deaths are a lagging indicator of contagion, but they may be a more reliable than case counts, which are a function of both the prevalence of the disease and the rate of testing. The case mortality rate is a very crude indicator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





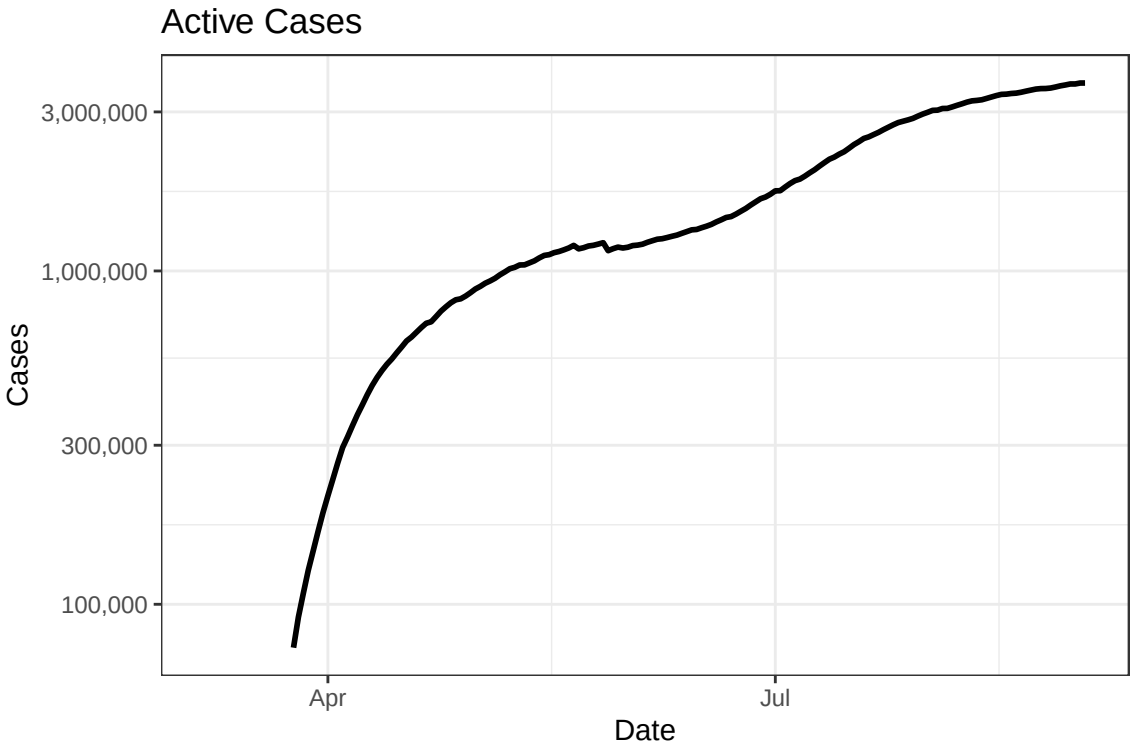

Daily Case Mortailty Rate
25.0%
20.0%
15.0%
10.0%
5.0%
0.0%
Rate
Apr
Jul
Date

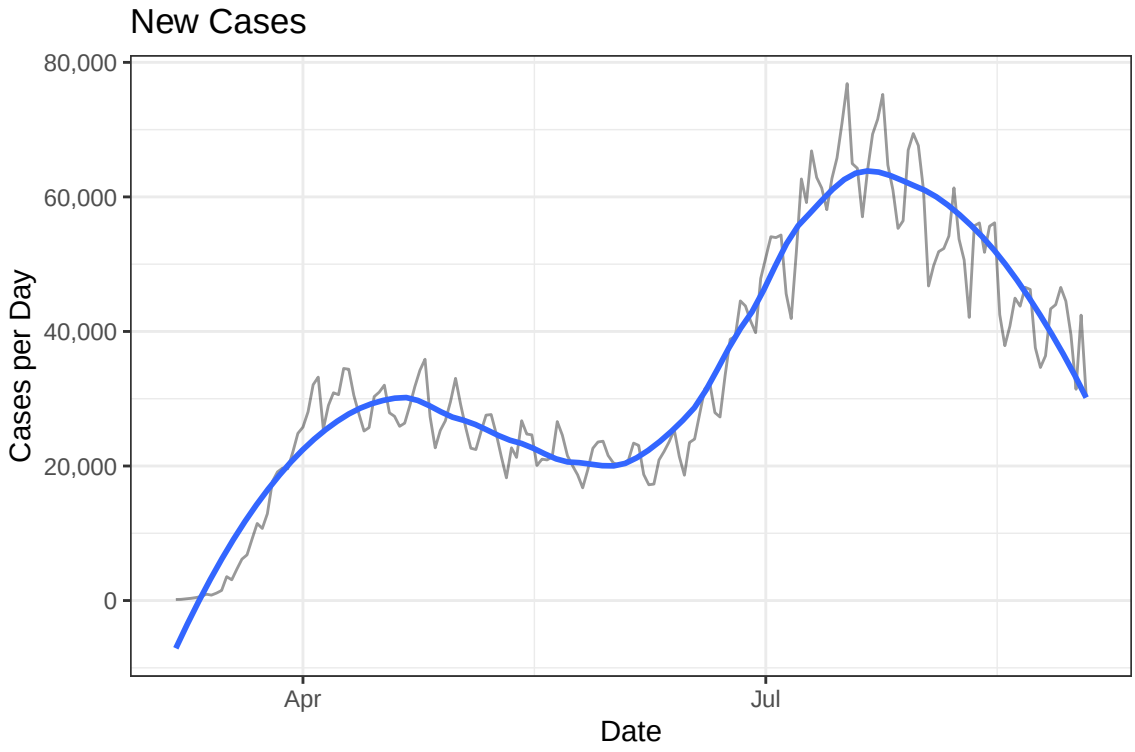

One−Week Change in Daily Deaths
1,000
500
0
−500
−1,000
7−Day Change
Apr
May
Jun
Jul
Aug
Sep
Date

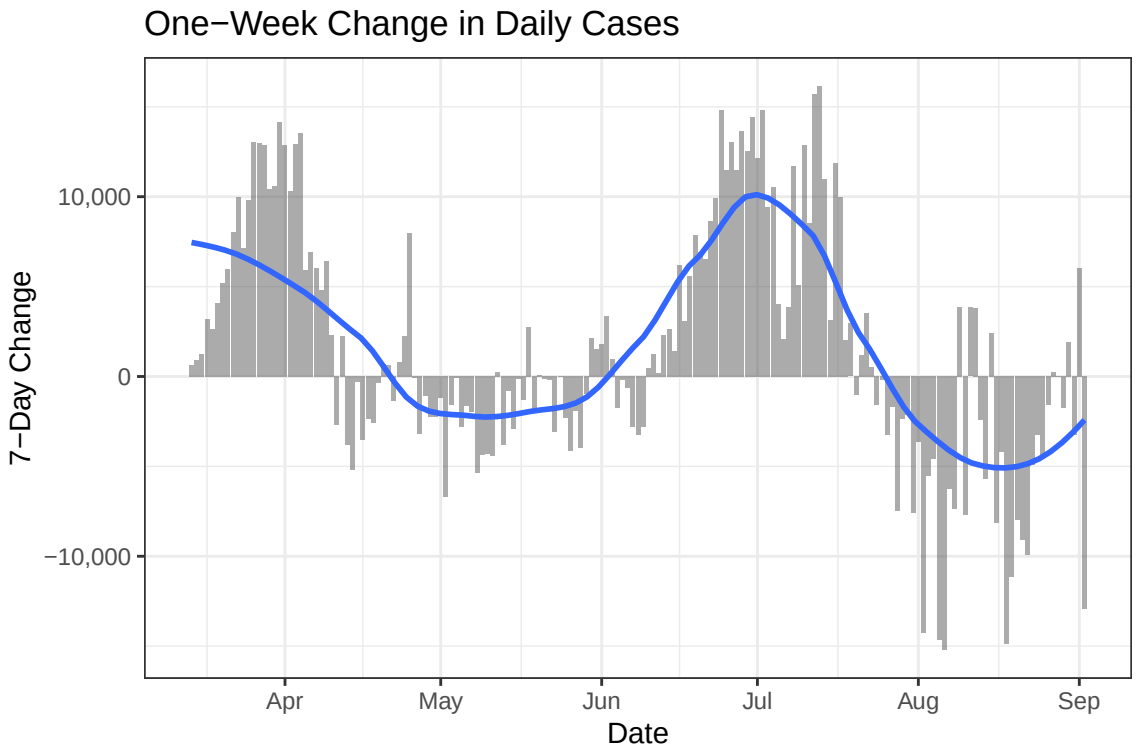

Deaths Per 1M
0
1
10
100
1,000
Missing

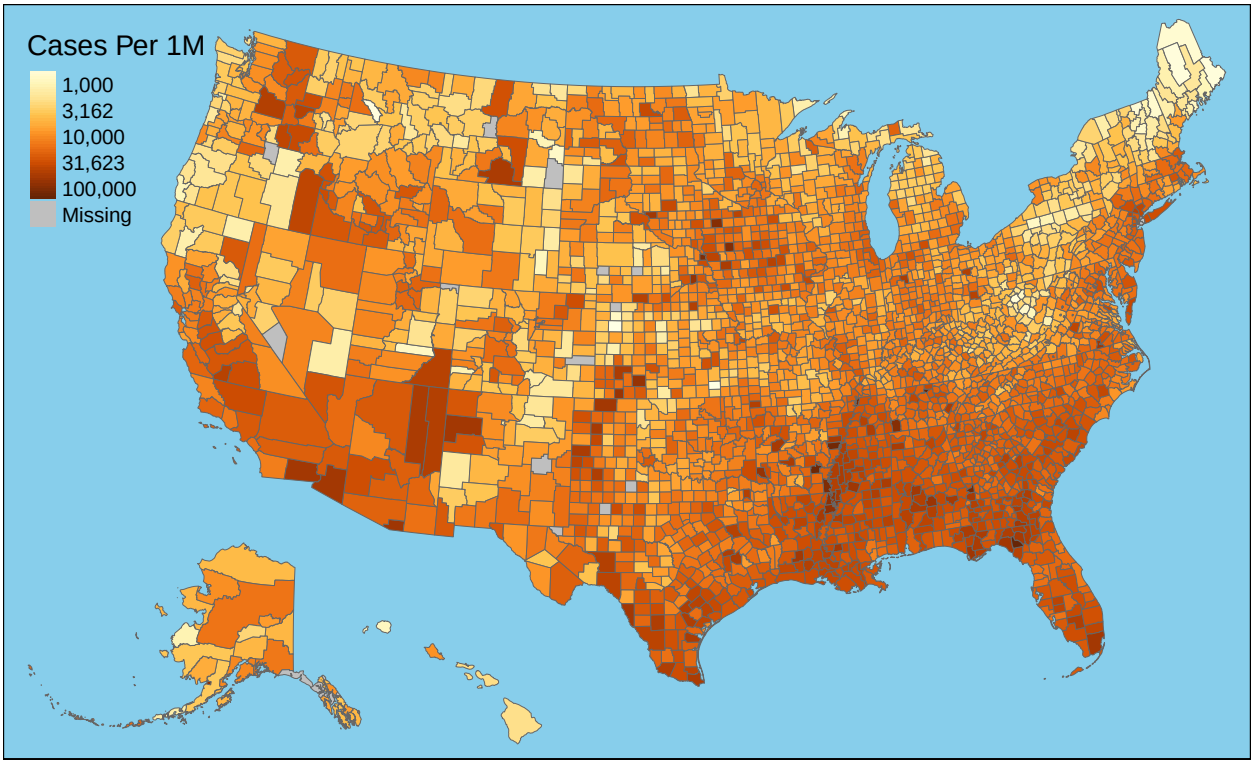
Cases

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



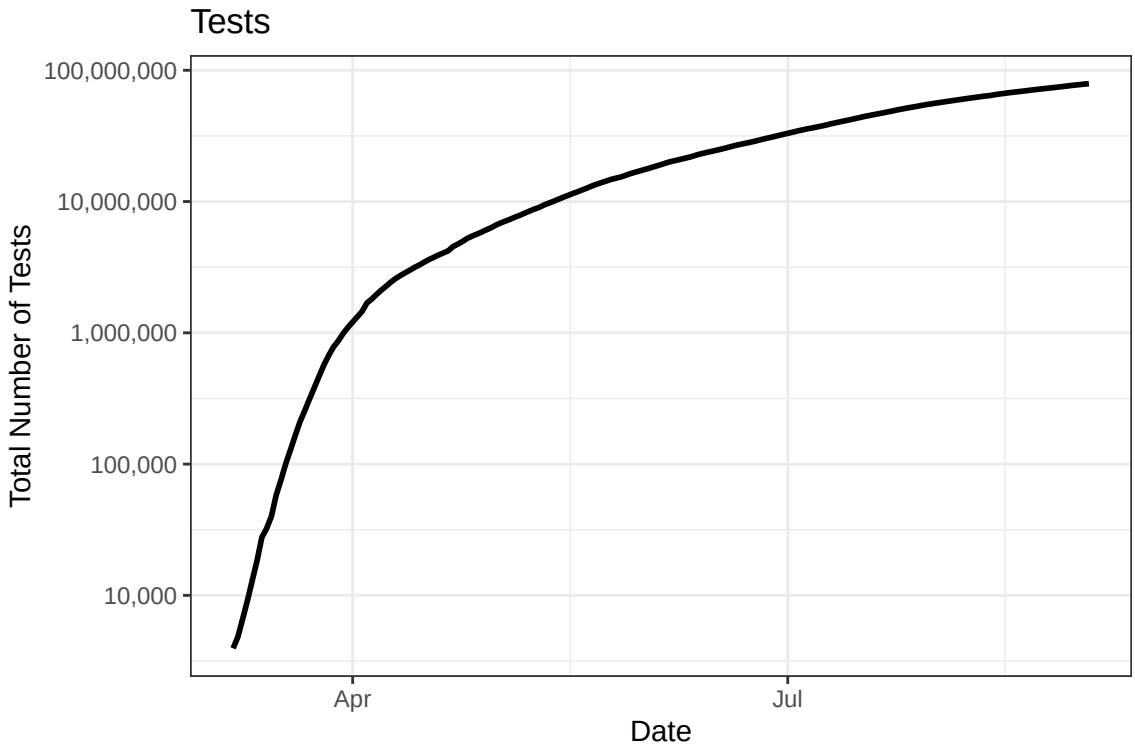


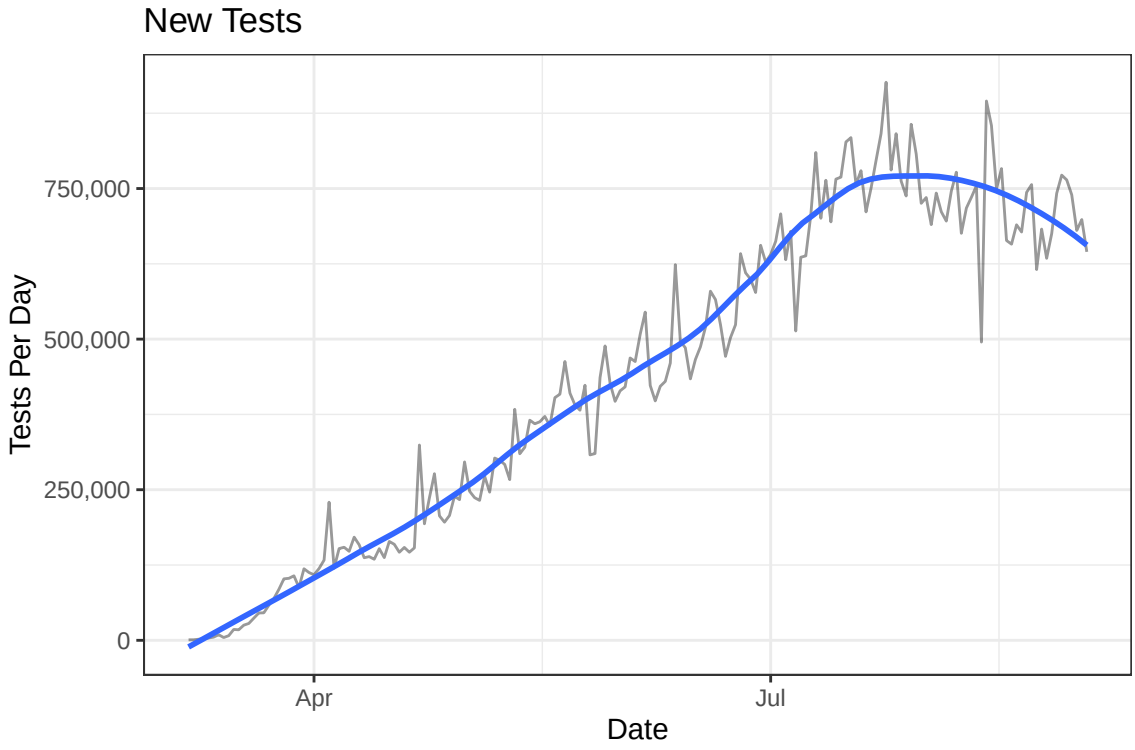

One−Week Change in Daily Cases
10,000
0
−10,000
7−Day Change
Apr
May
Jun
Jul
Aug
Sep
Date

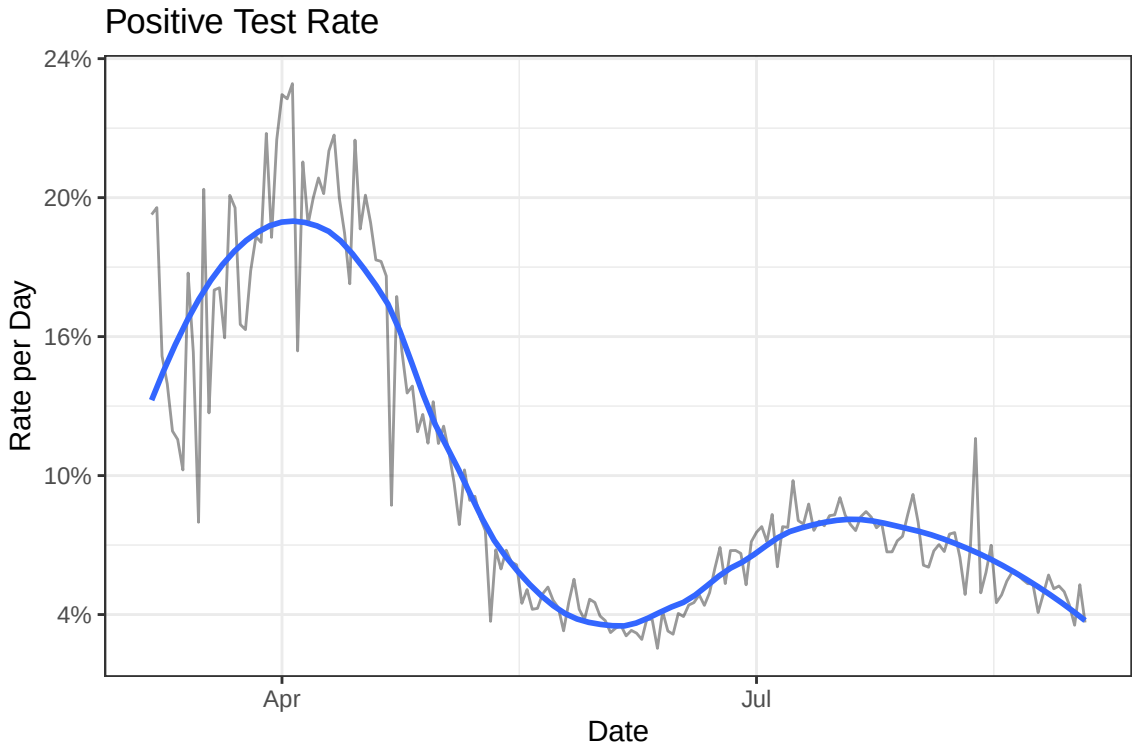

Cases Per 1M
1,000
3,162
10,000
31,623
100,000
Missing

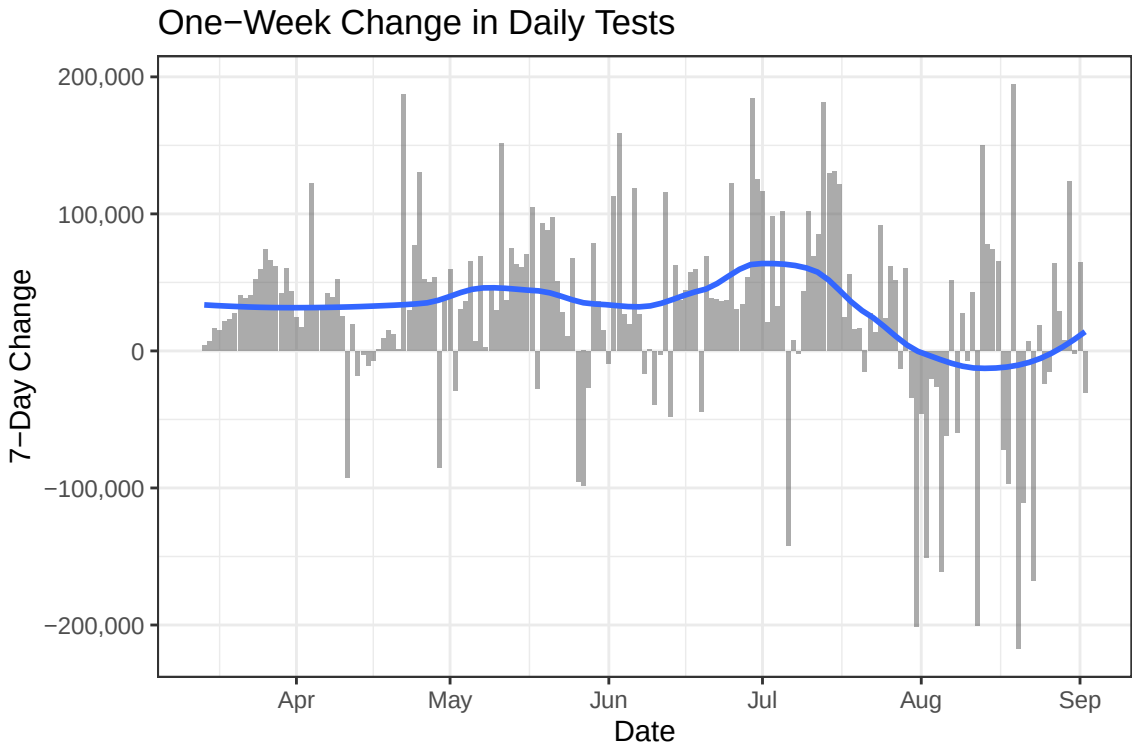
Testing

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.





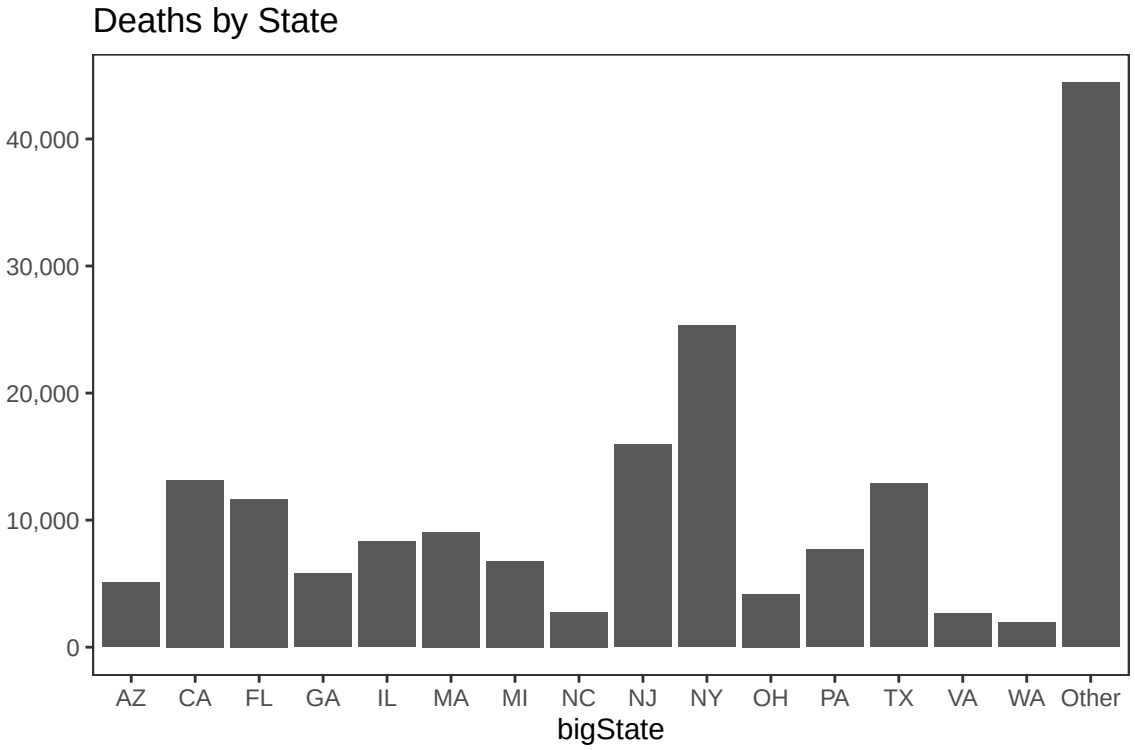

Positive Test Rate
24%
20%
16%
10%
4%
Rate per Day
Apr
Jul
Date

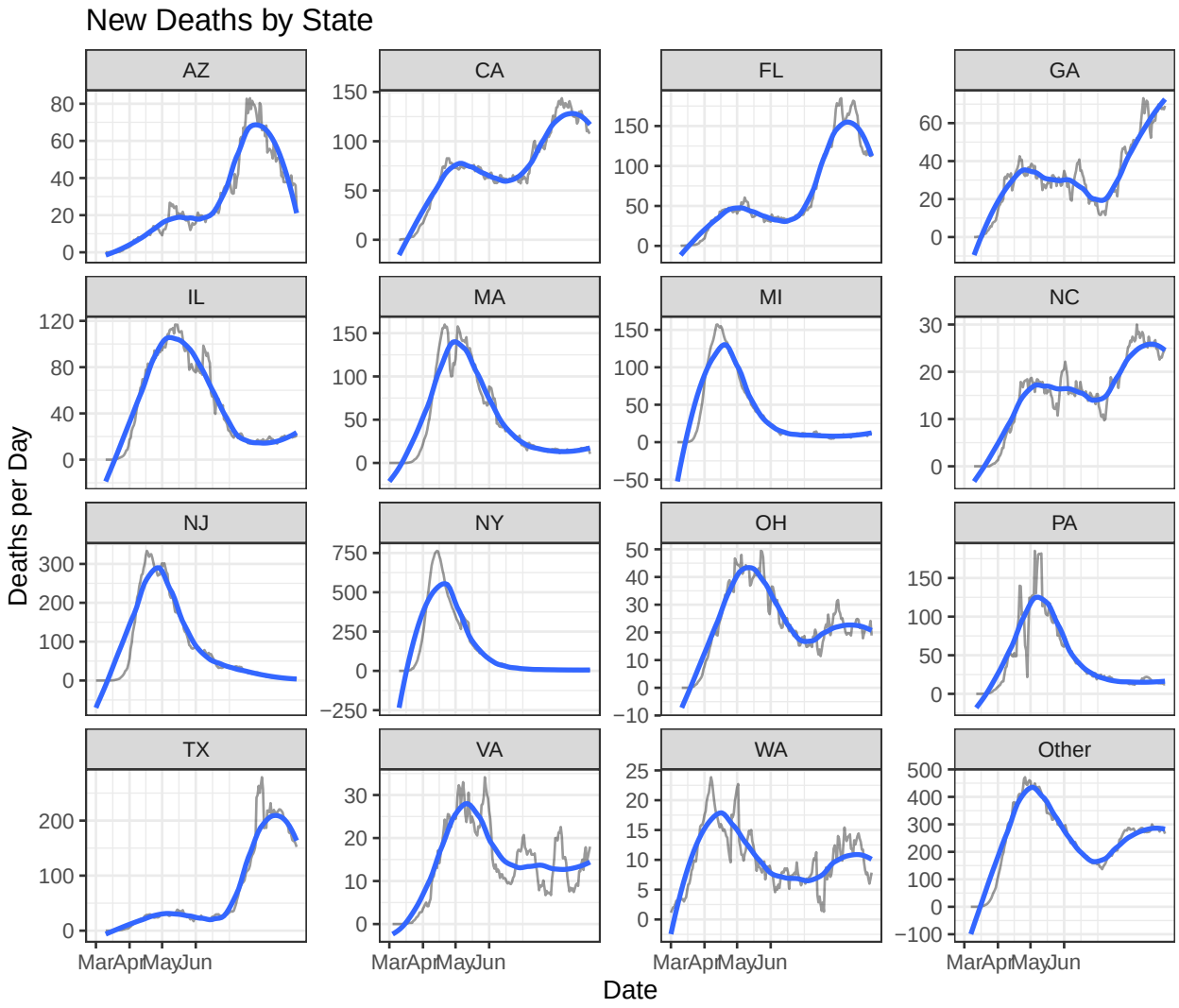

One−Week Change in Daily Tests
200,000
100,000
0
−100,000
−200,000
7−Day Change
Apr
May
Jun
Jul
Aug
Sep
Date

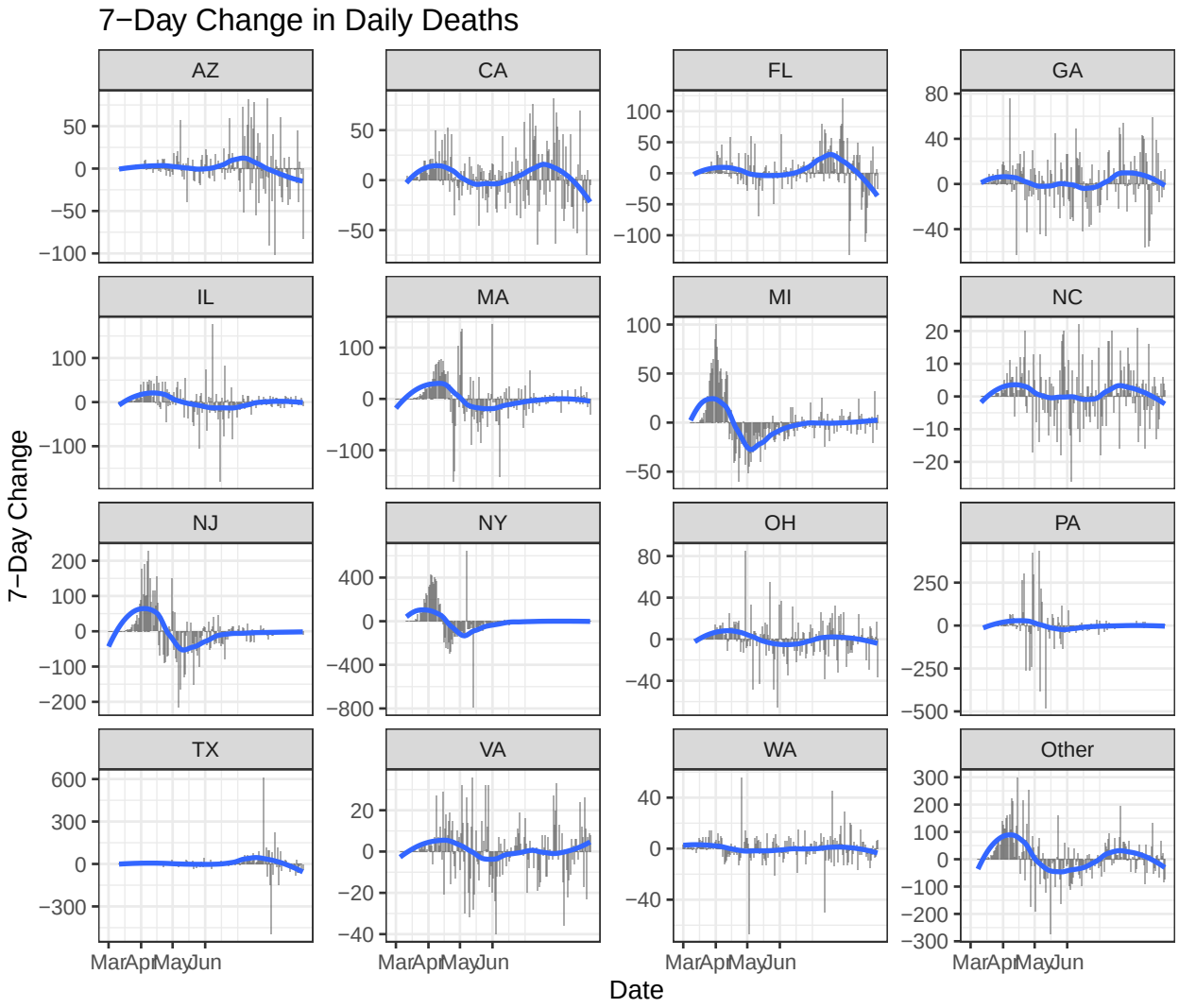
State Data

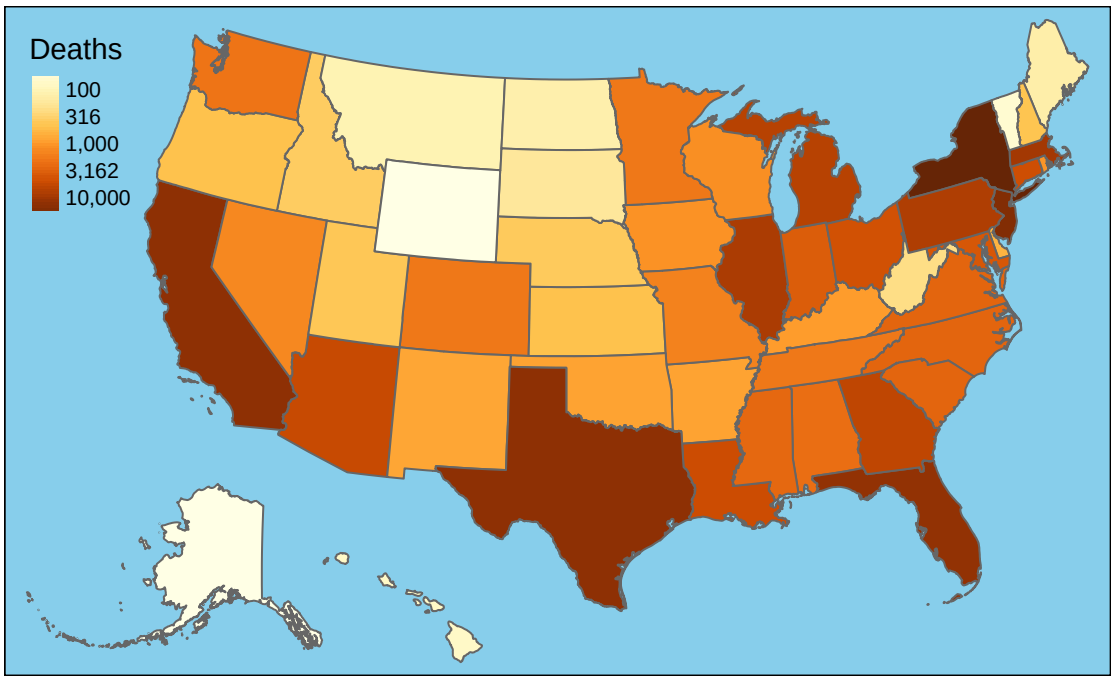
This section summarizes state-level data. Most data are reported for the largest 15 states by population, which account for NaN percent of the total U.S. population.

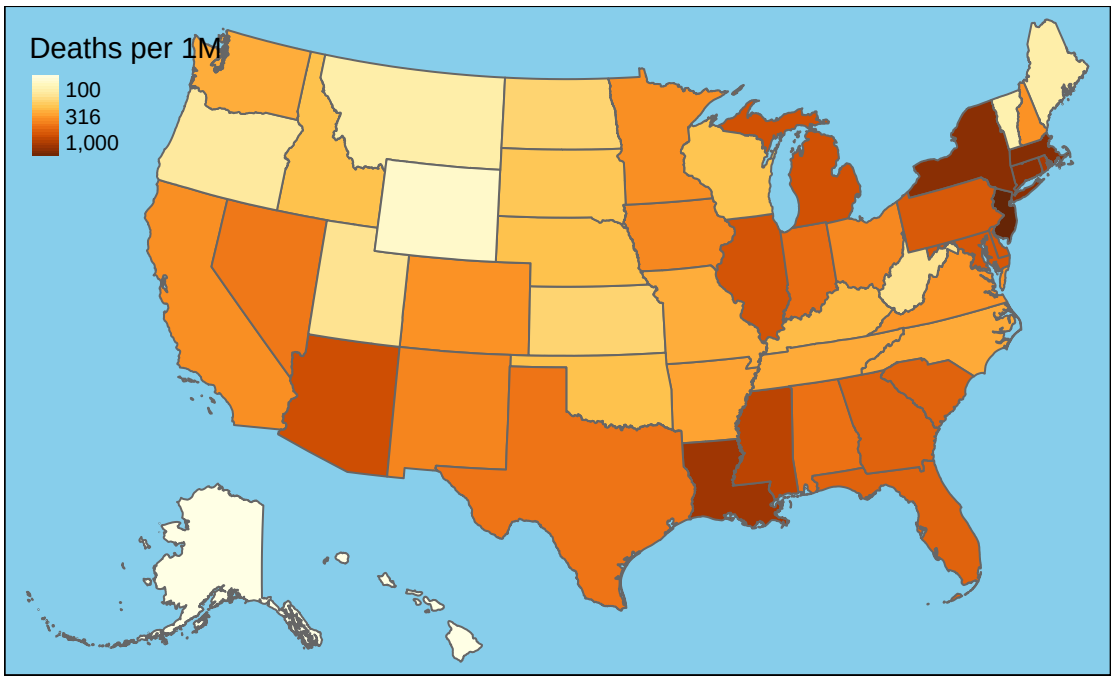
Deaths



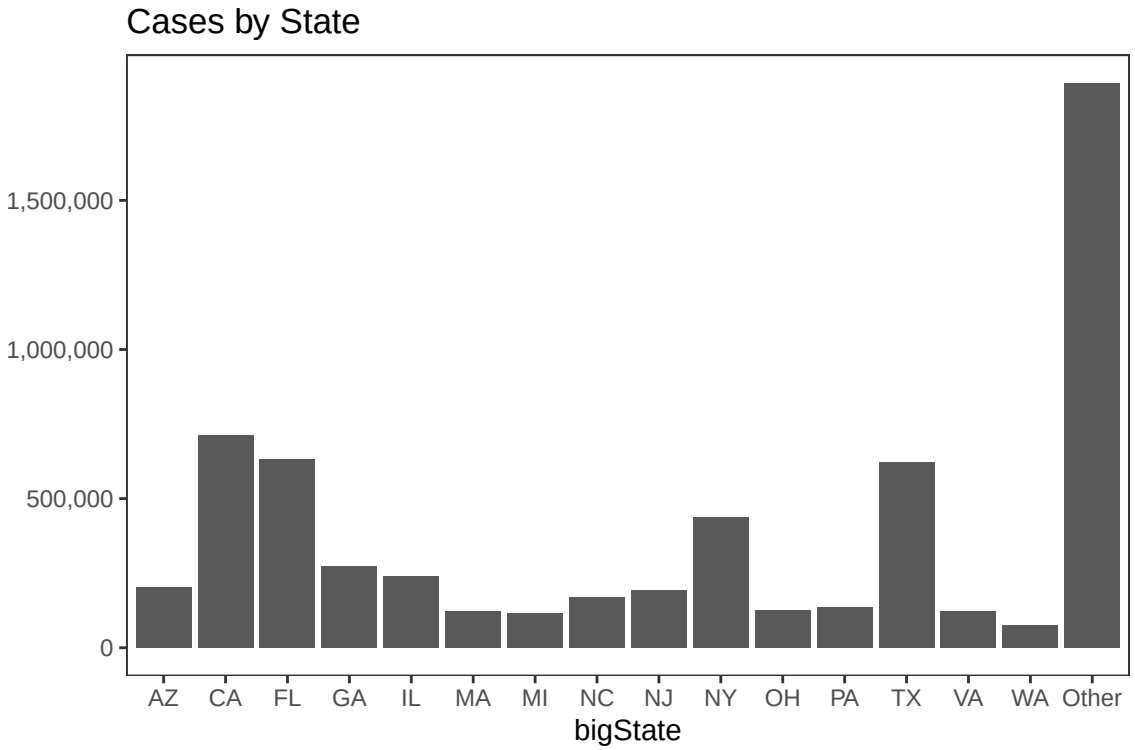

New Deaths by State
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
Deaths per Day
Mar
Apr
May
Jun
Date

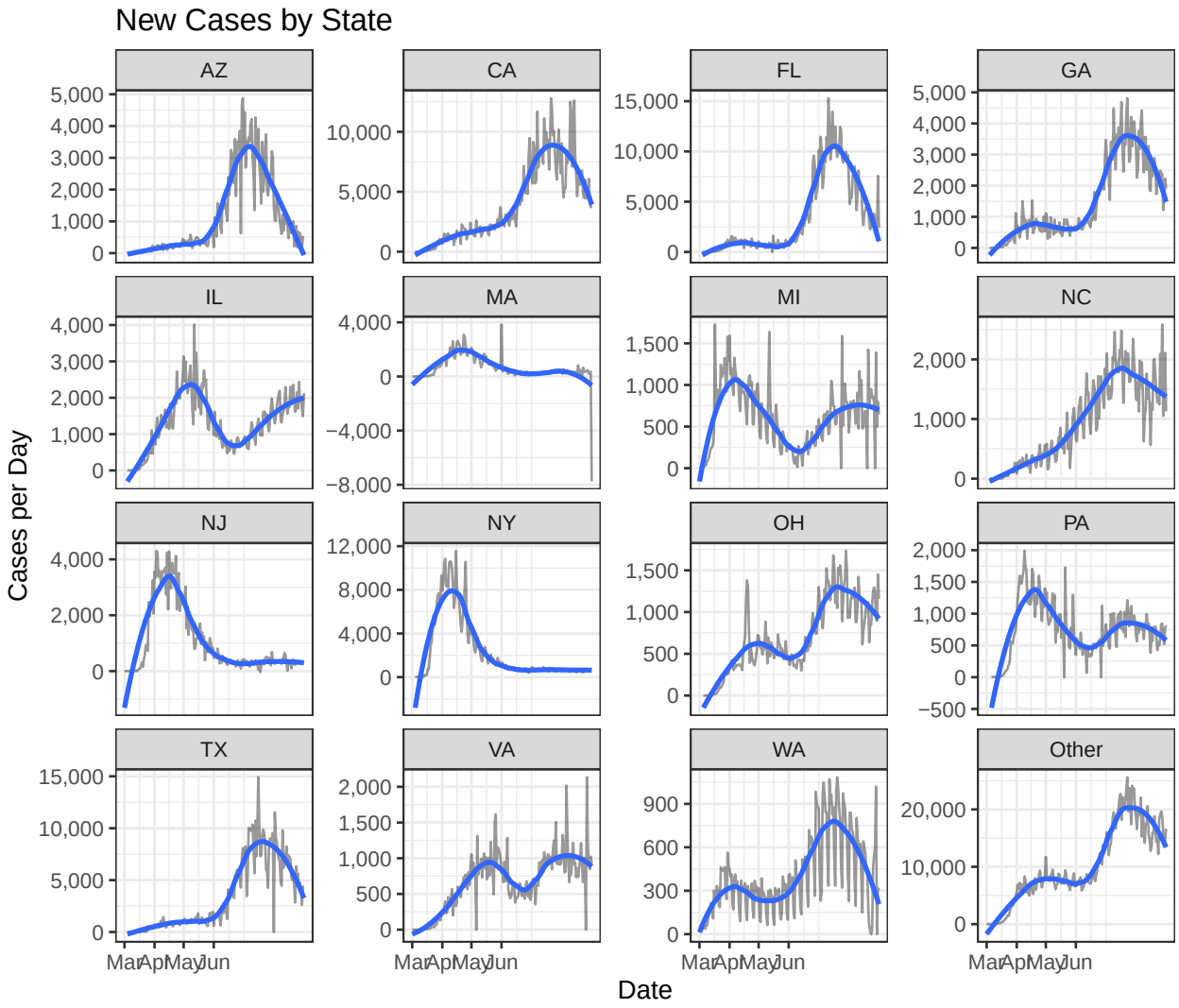

7−Day Change in Daily Deaths
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
7−Day Change
Date
Mar
Apr
May
Jun

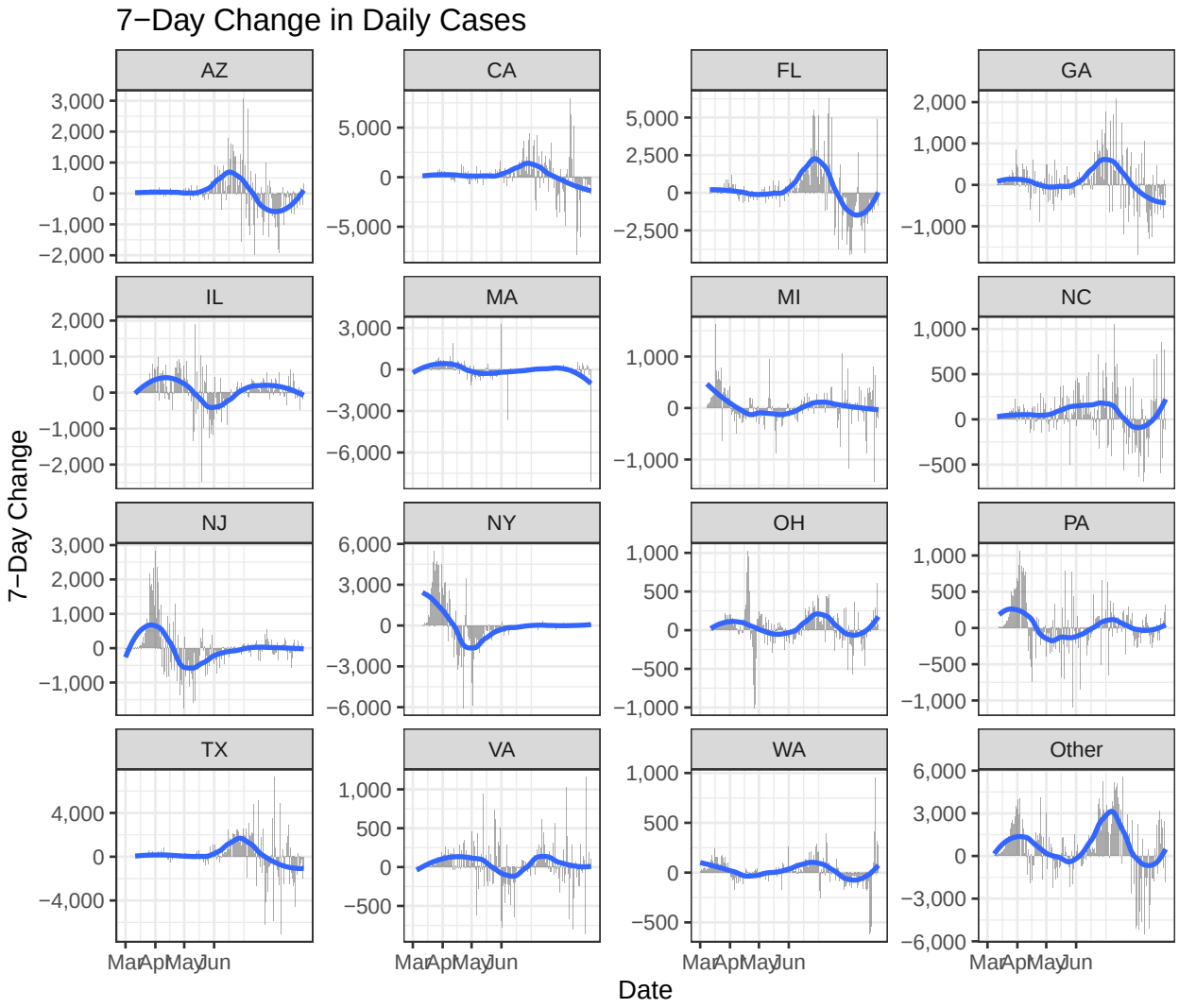

Deaths
100
316
1,000
3,162
10,000

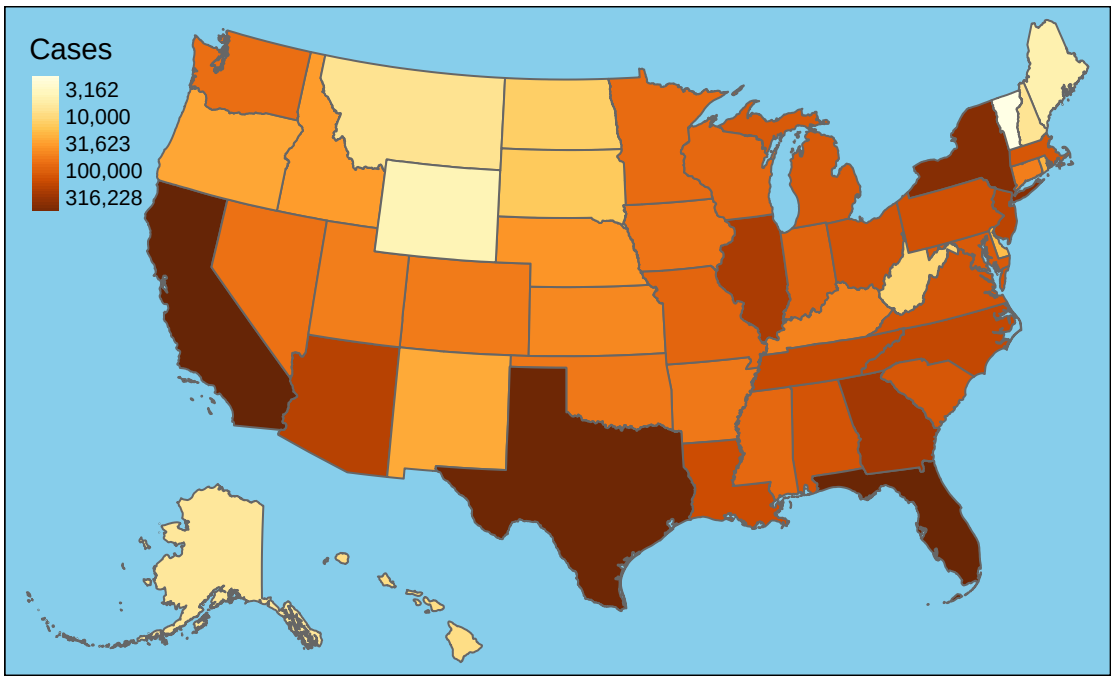

Deaths per 1M
100
316
1,000

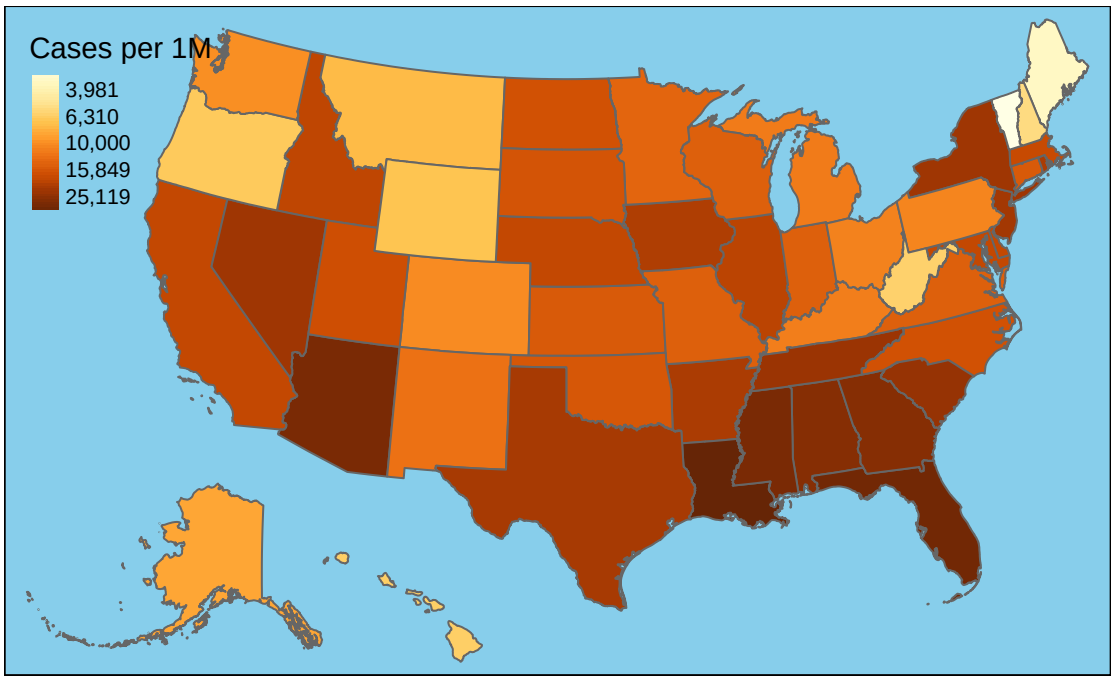
Cases


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

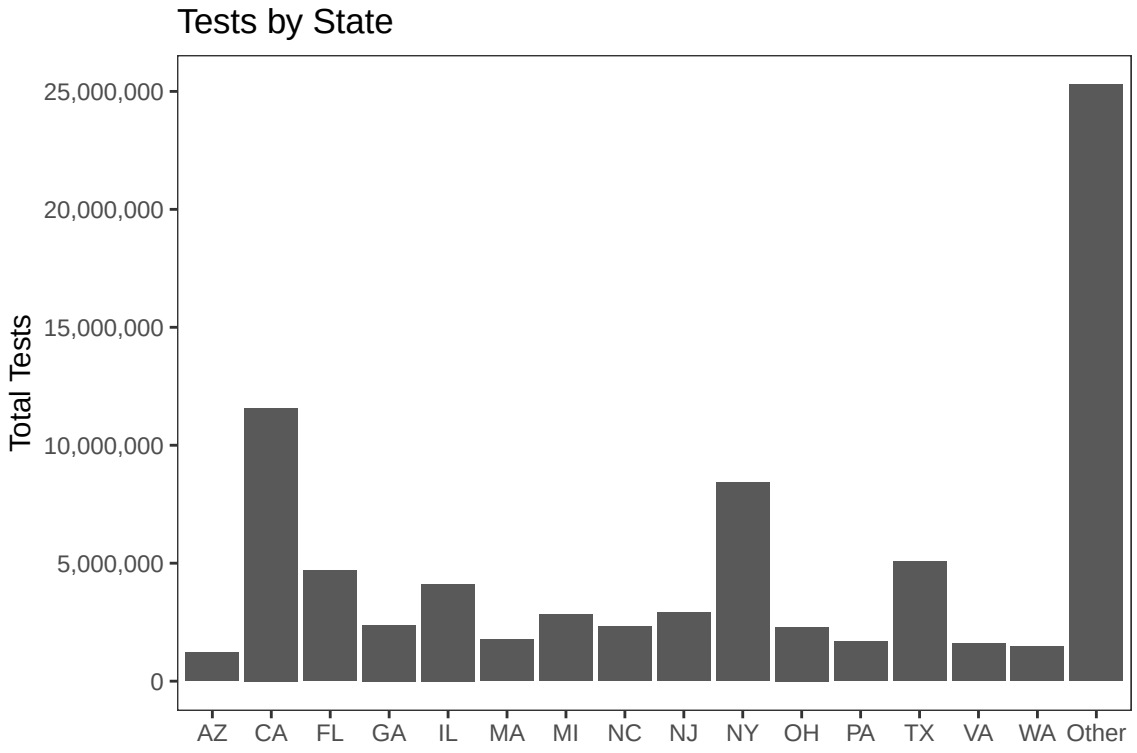

New Cases by State
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
Cases per Day
Date
Mar
Apr
May
Jun

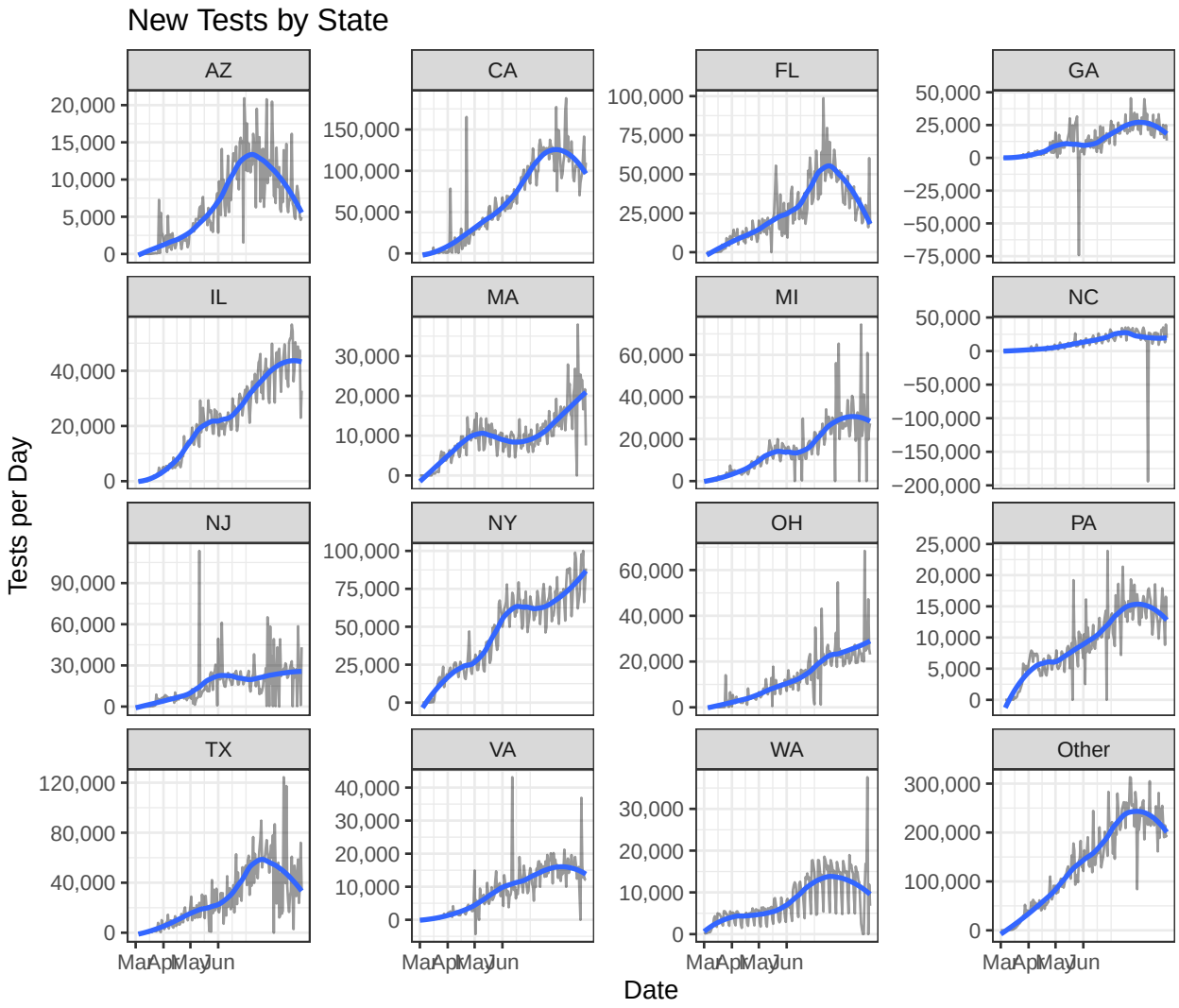

7−Day Change in Daily Cases
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other
7−Day Change
Date
Mar
Apr
May
Jun

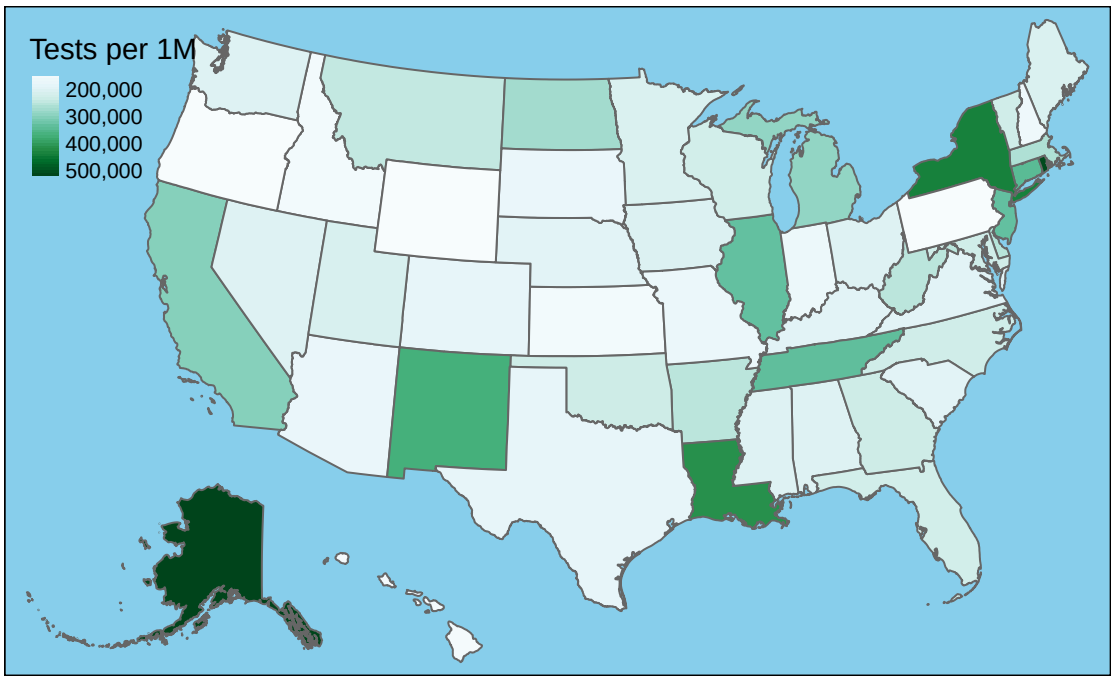

Cases
3,162
10,000
31,623
100,000
316,228

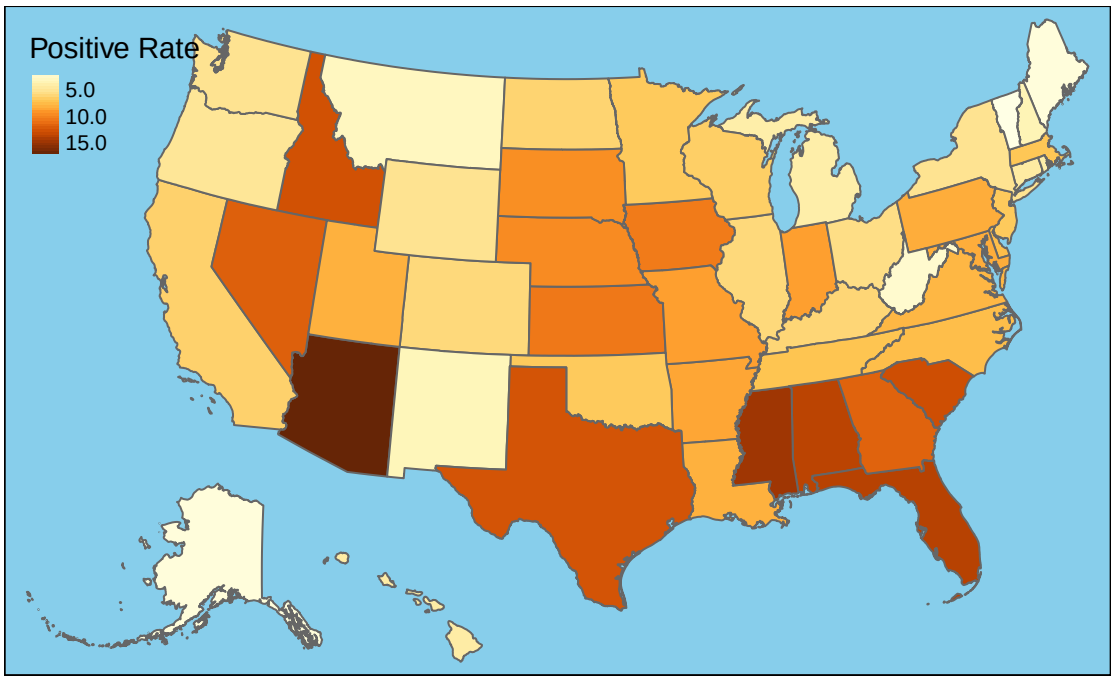

Cases per 1M
3,981
6,310
10,000
15,849
25,119

Testing

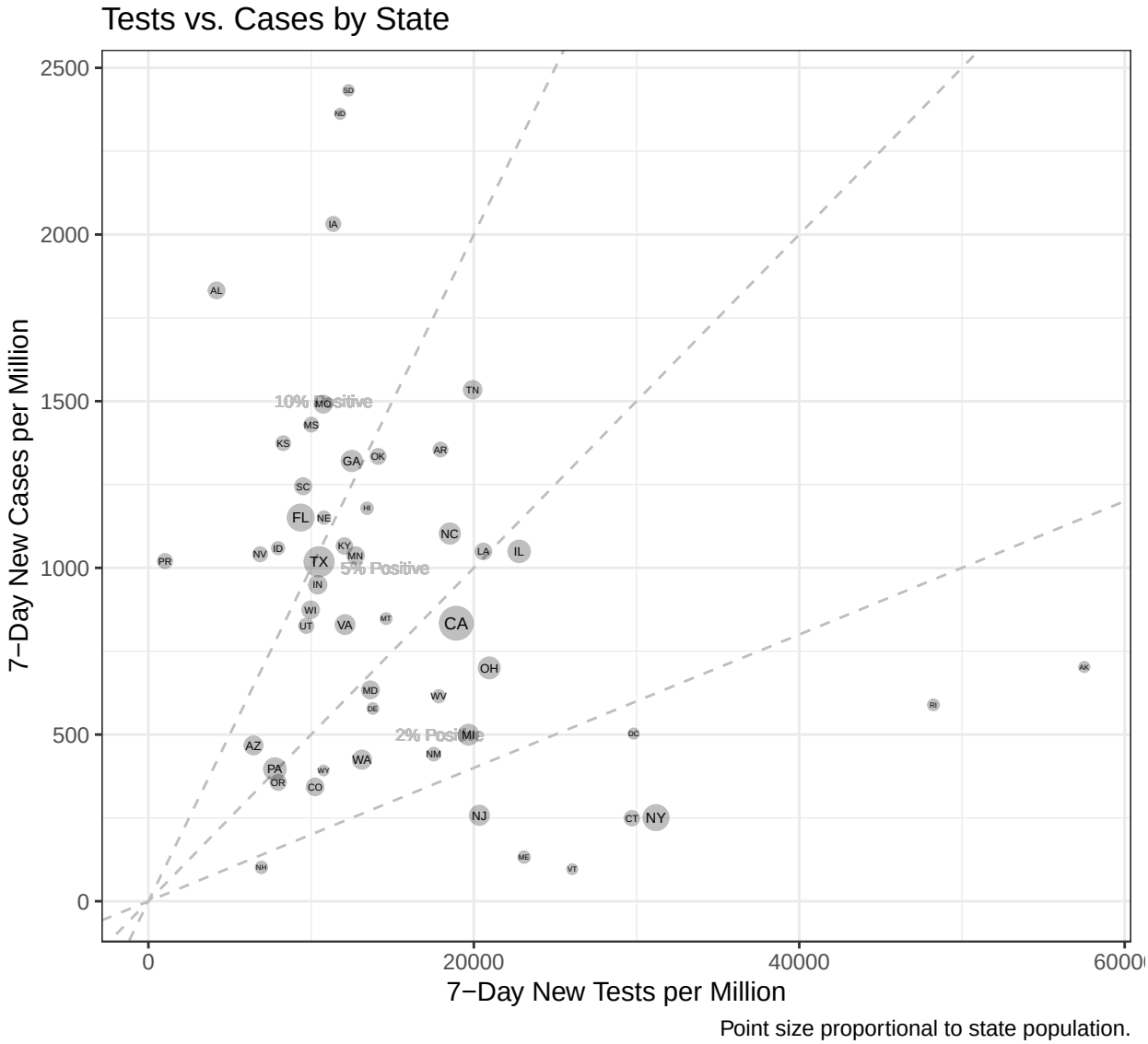

Tests by State
Total Tests
25,000,000
20,000,000
15,000,000
10,000,000
5,000,000
0
AZ
CA
FL
GA
IL
MA
MI
NC
NJ
NY
OH
PA
TX
VA
WA
Other


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
200,000
300,000
400,000
500,000


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.



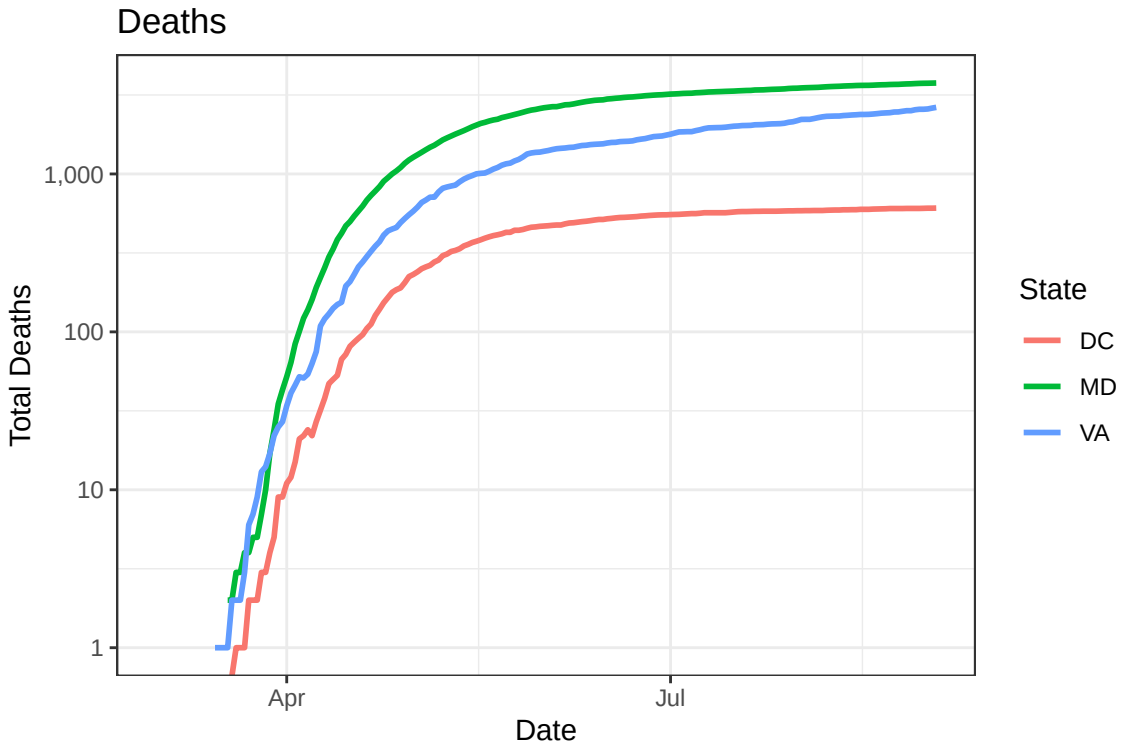
Local Data

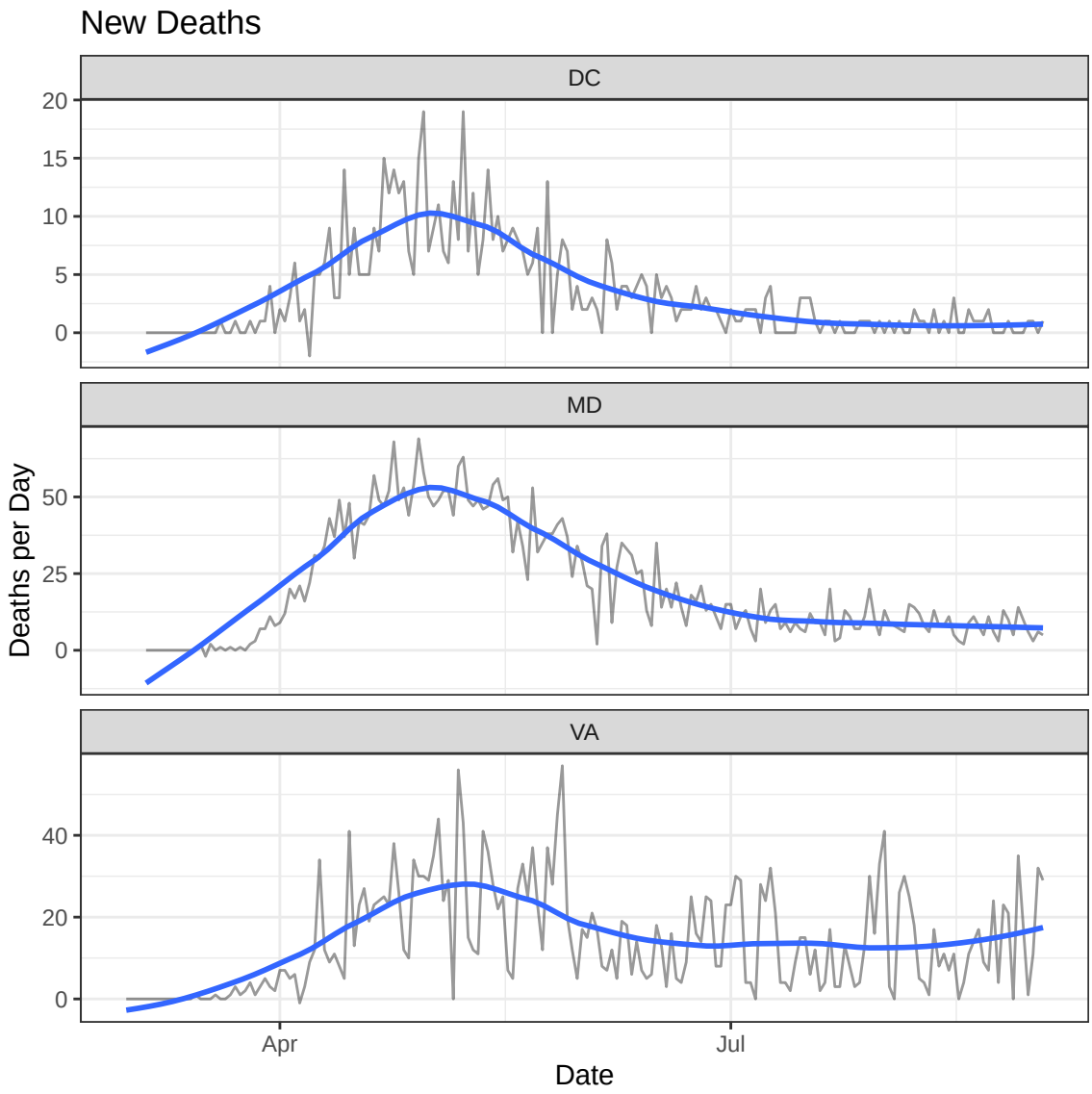
The following charts and tables present mortality, case, and testing data for the Washington DC metropolitan area and adjacent states.

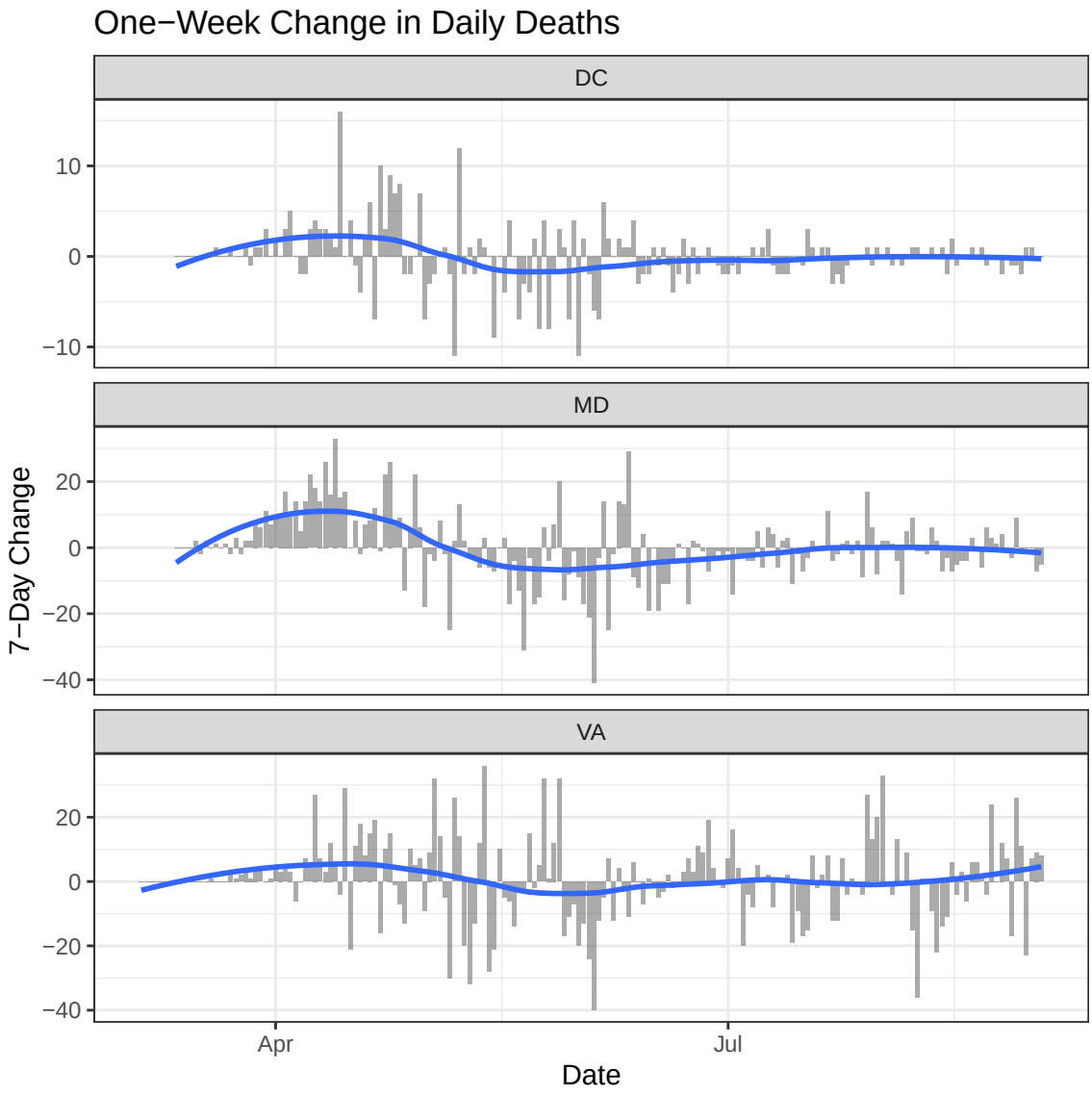
Table 3: Latest Local Data

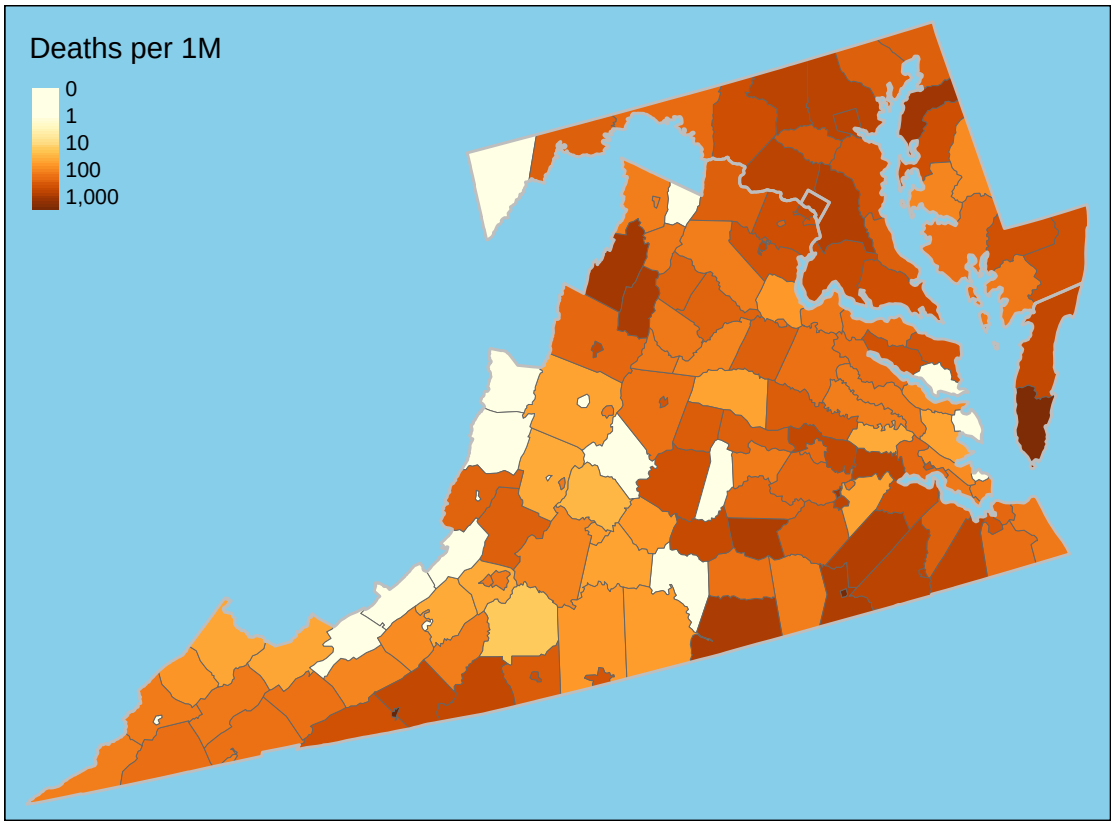
State	Cases	Deaths	New Cases	New Deaths
DC	14,077	608	28	1
MD	109,319	3,766	456	5
VA	122,542	2,641	927	29

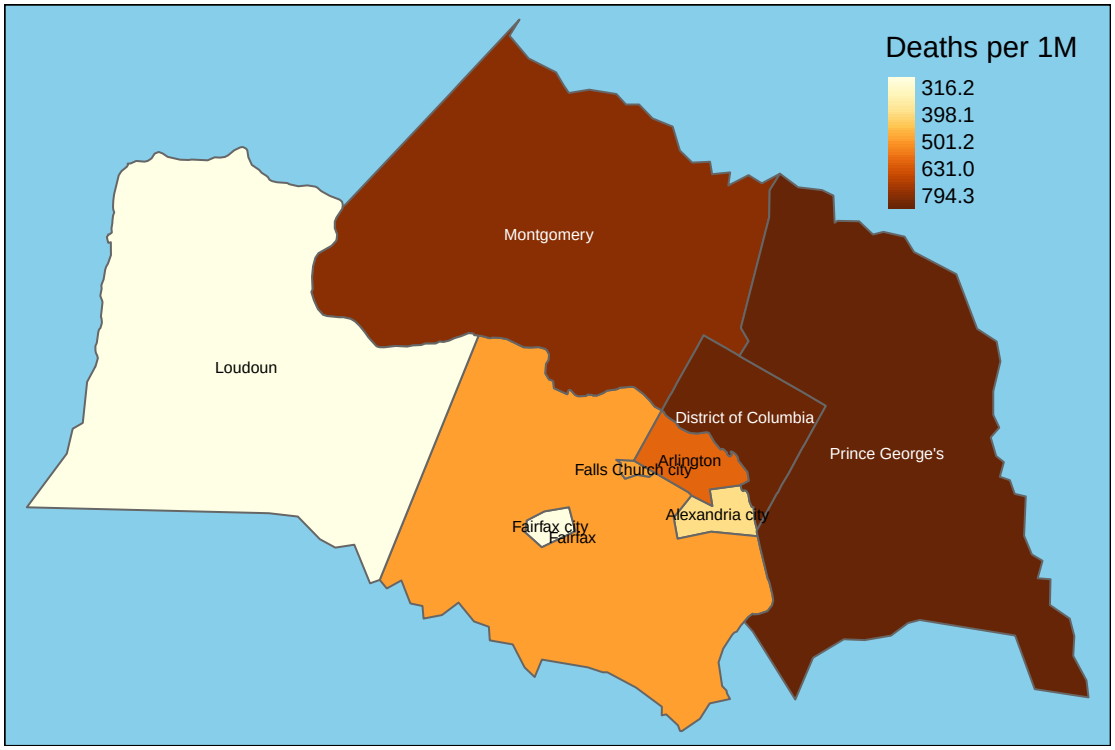
Deaths



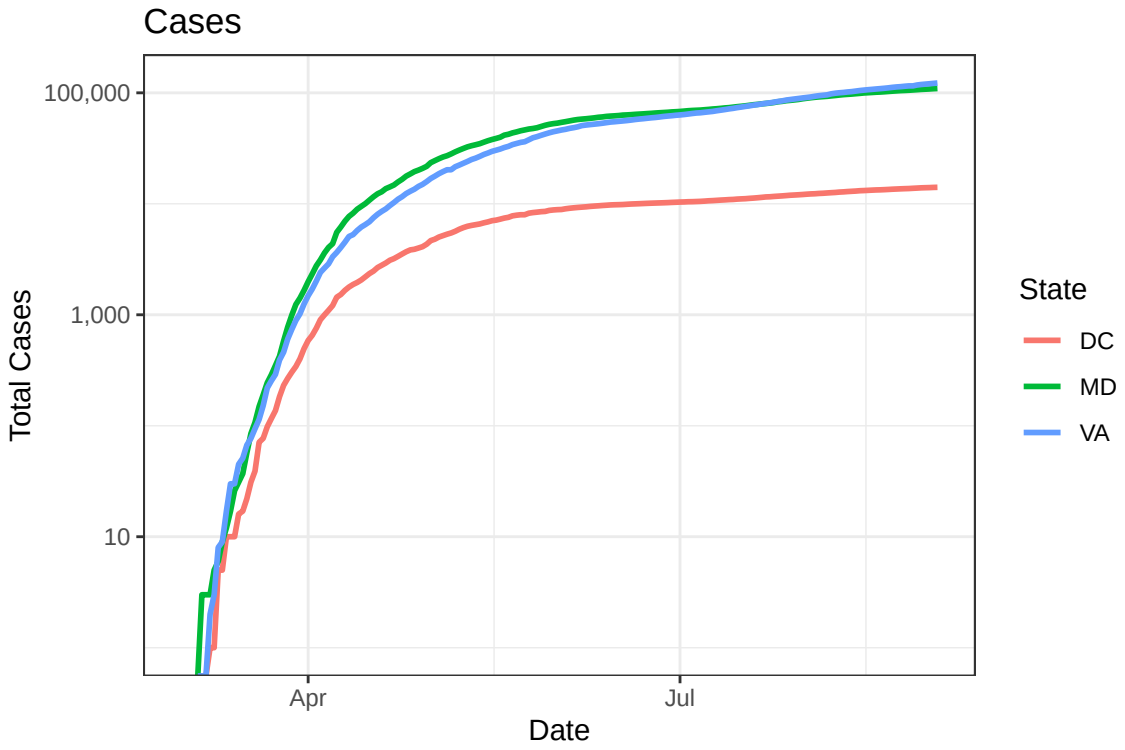

New Deaths
DC
MD
VA
Deaths per Day
20
15
10
5
0
50
25
0
40
20
0
Apr
Jul
Date

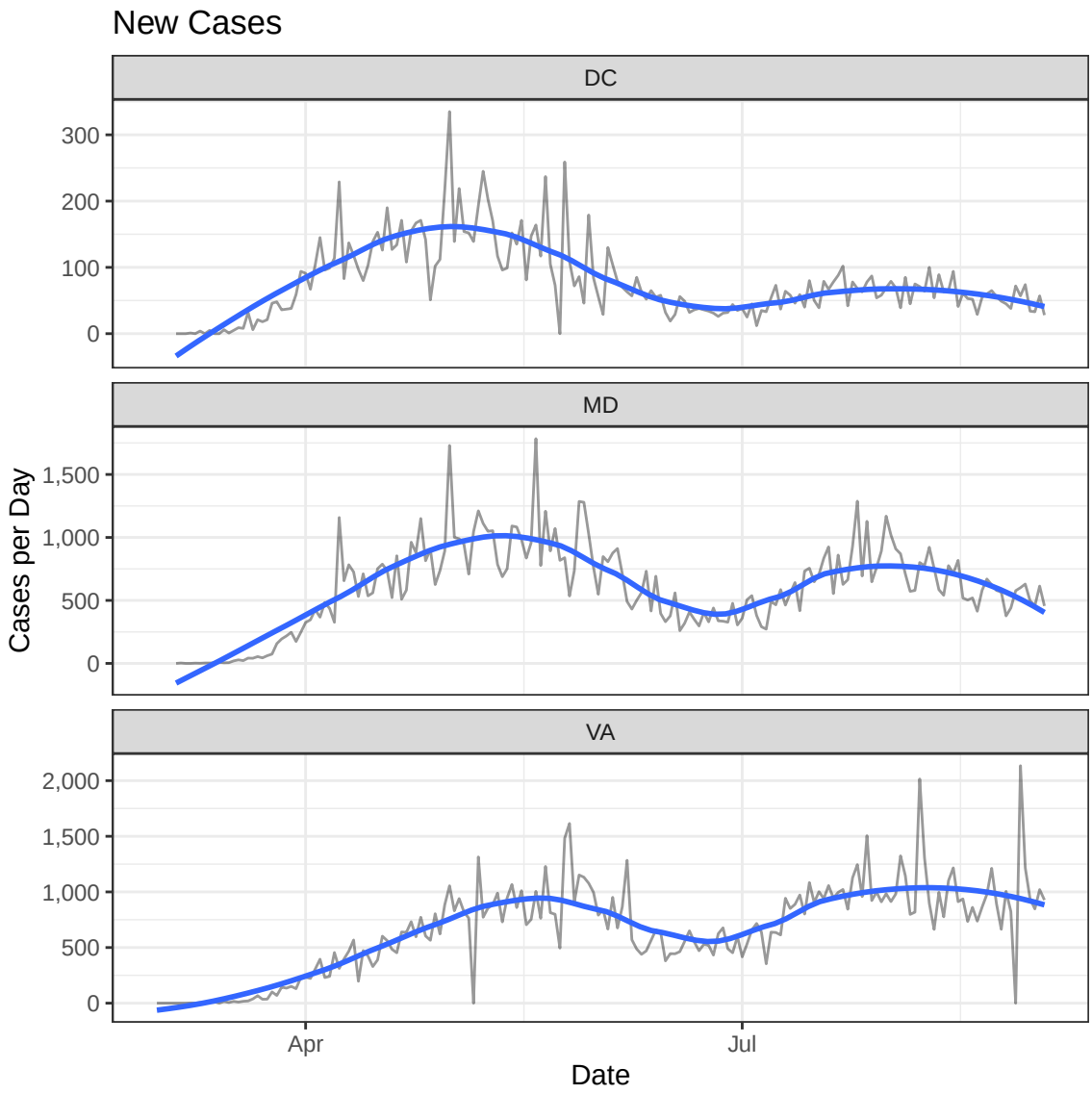

One−Week Change in Daily Deaths
DC
MD
VA
10
0
−10
20
0
−20
−40
7−Day Change
Apr
Jul
Date

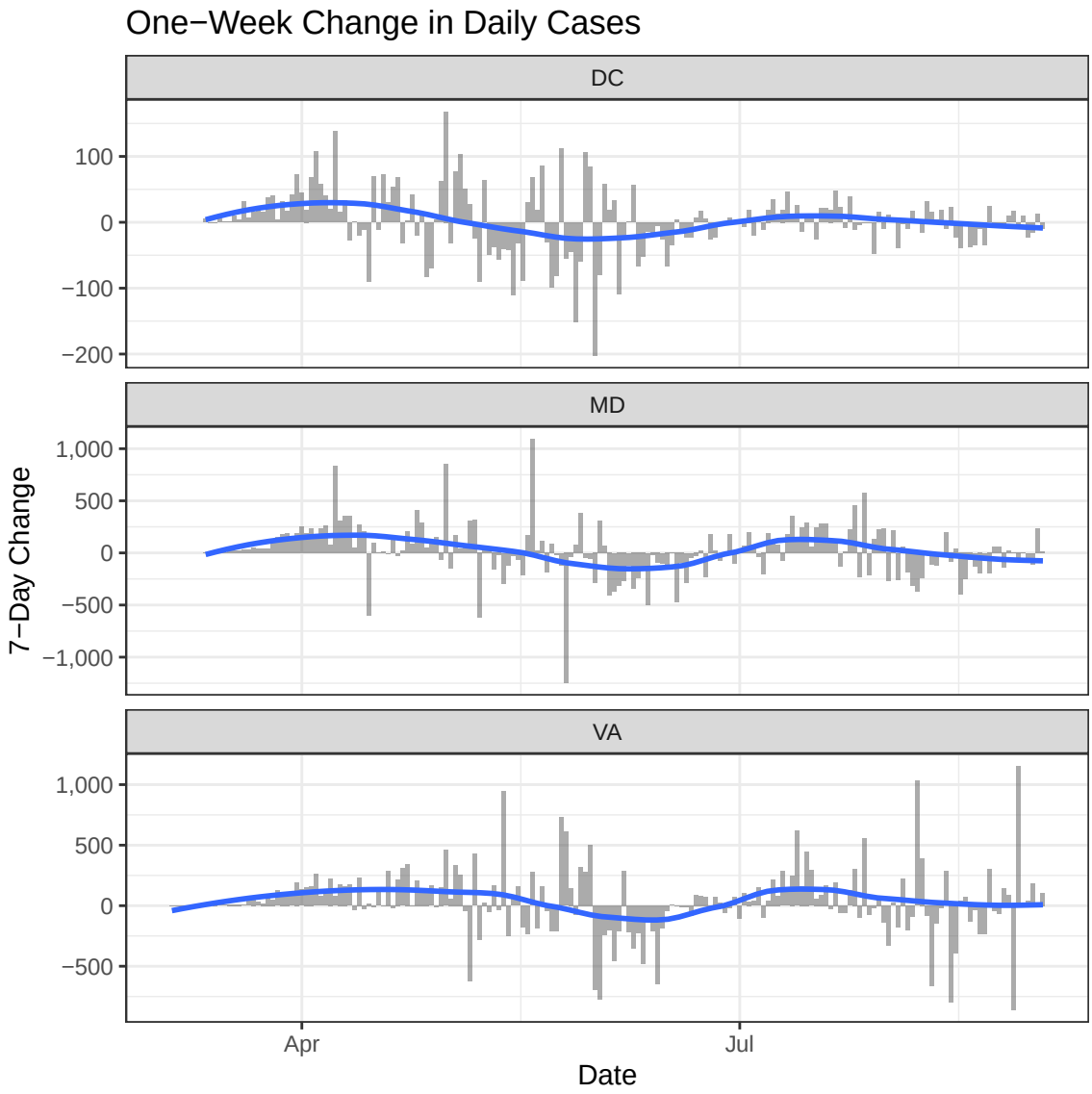

Deaths per 1M
0
1
10
100
1,000

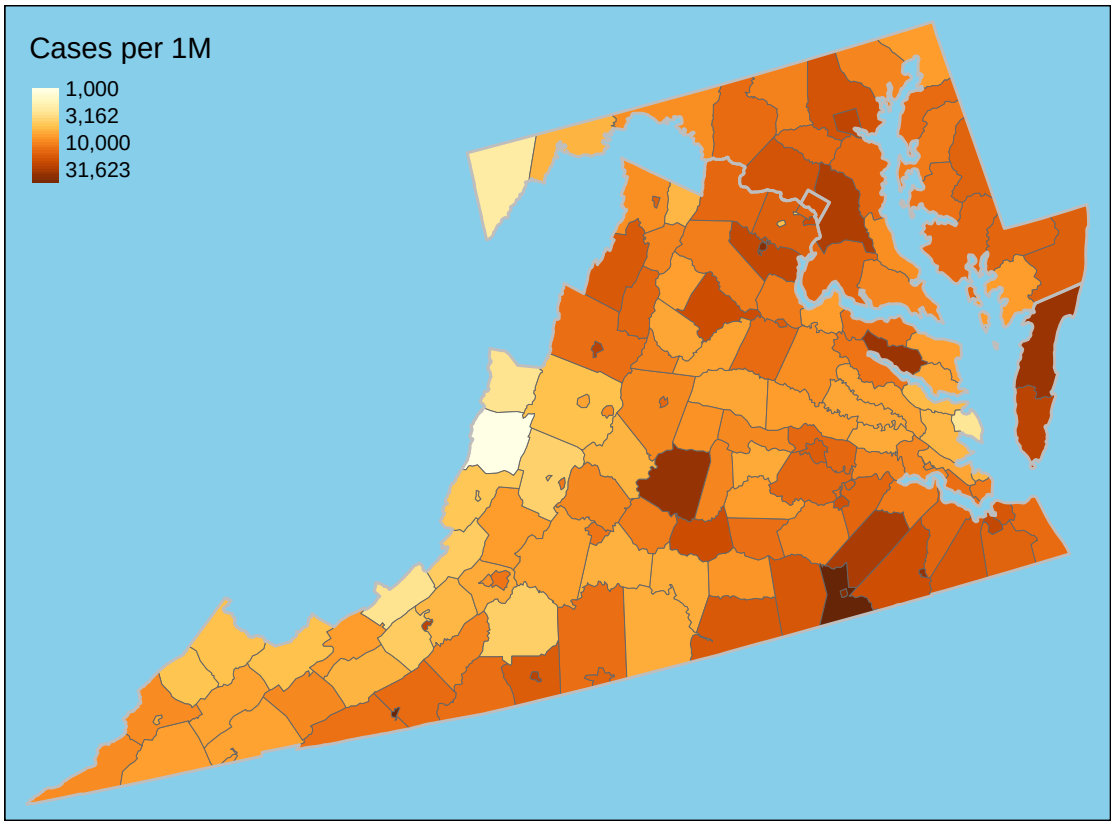

Deaths per 1M
316.2
398.1
501.2
631.0
794.3
Montgomery
Loudoun
District of Columbia
Prince George's
Arlington
Falls Church city
Alexandria city
Fairfax city
Fairfax

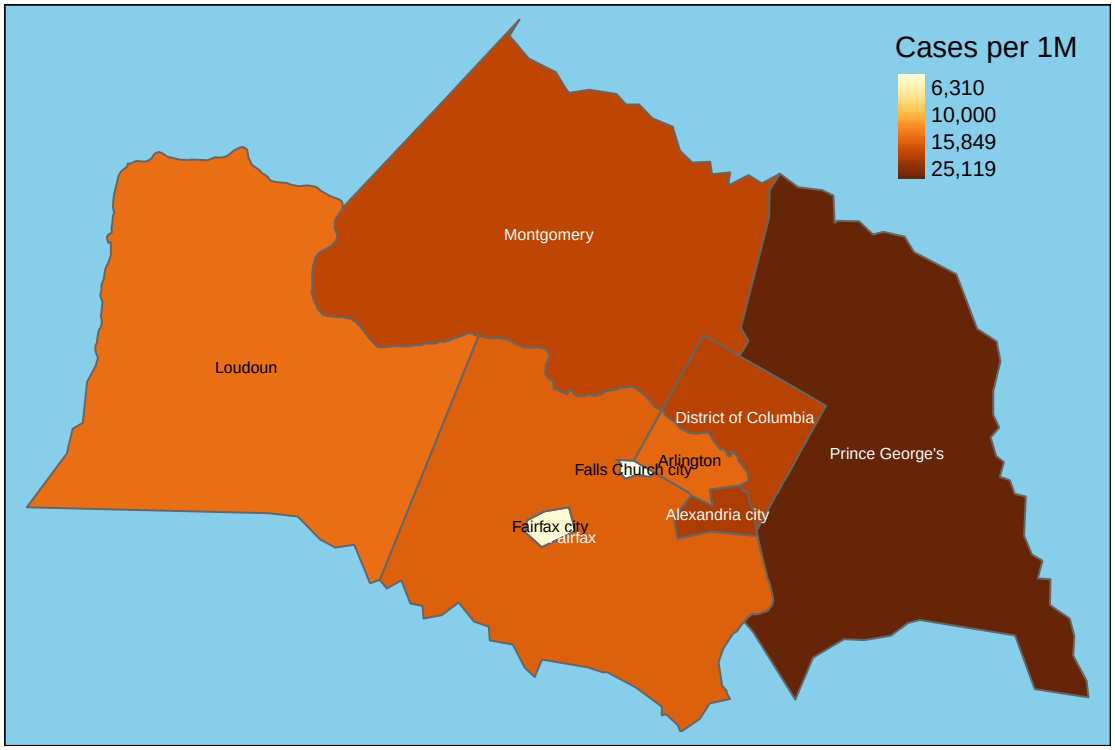
Cases



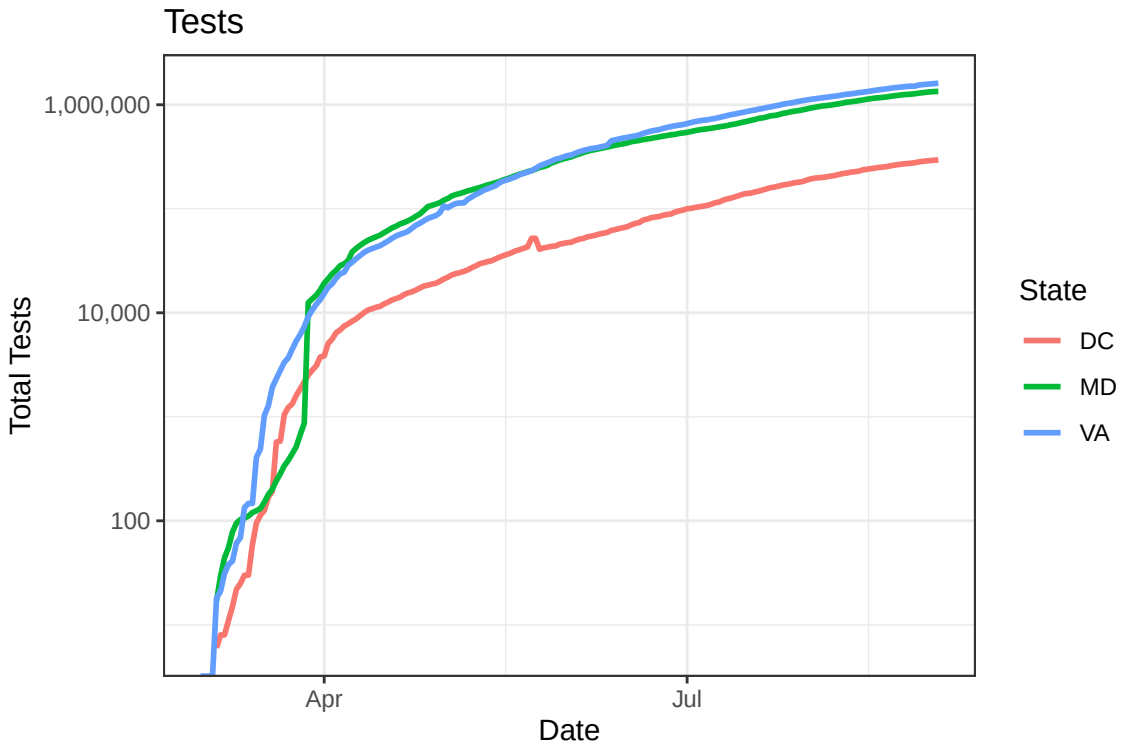

New Cases
DC
MD
VA
Cases per Day
300
200
100
0
1,500
1,000
500
0
2,000
1,500
1,000
500
0
Apr
Jul
Date

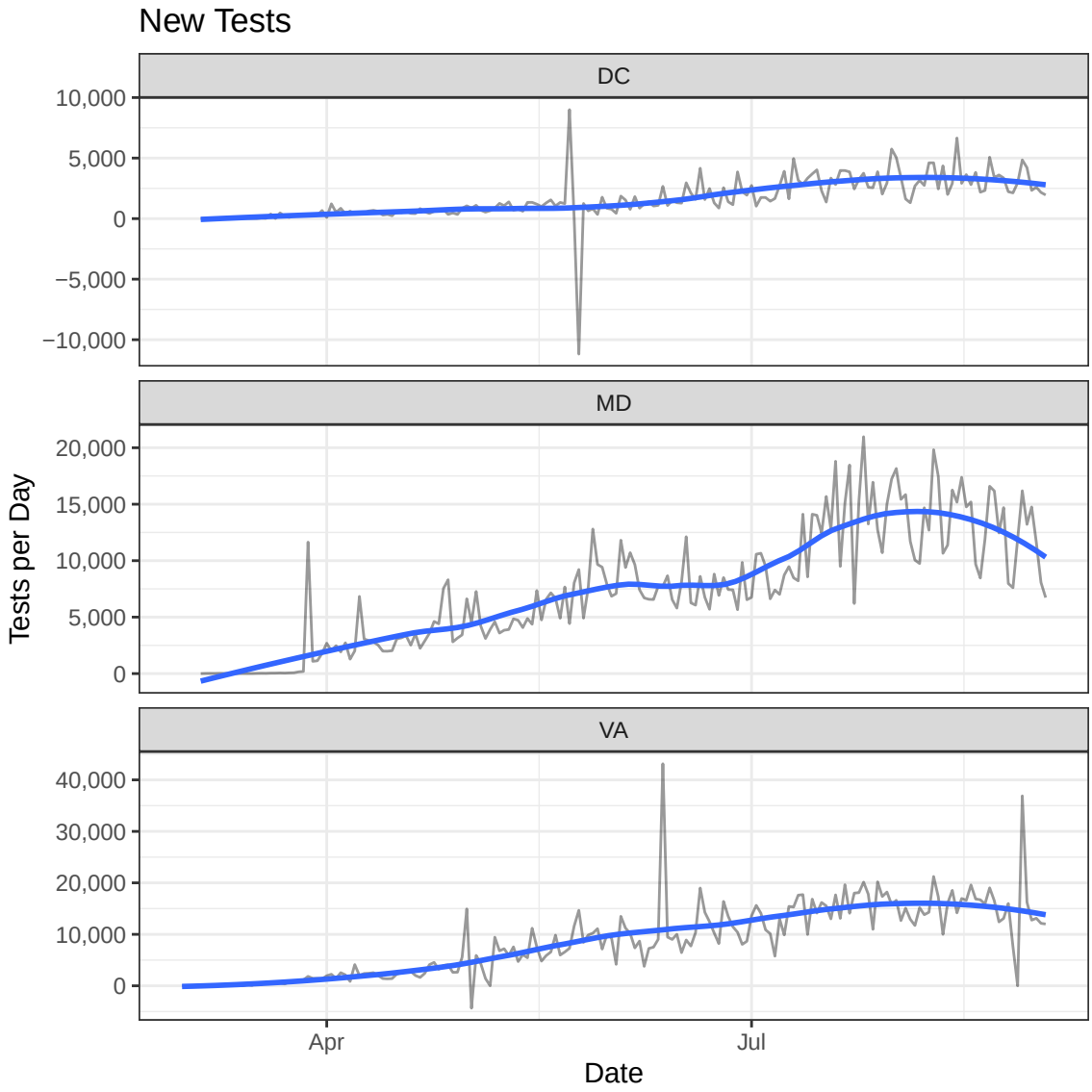

One−Week Change in Daily Cases
DC
MD
VA
100
0
−100
−200
1,000
500
0
−500
−1,000
7−Day Change
Apr
Jul
Date

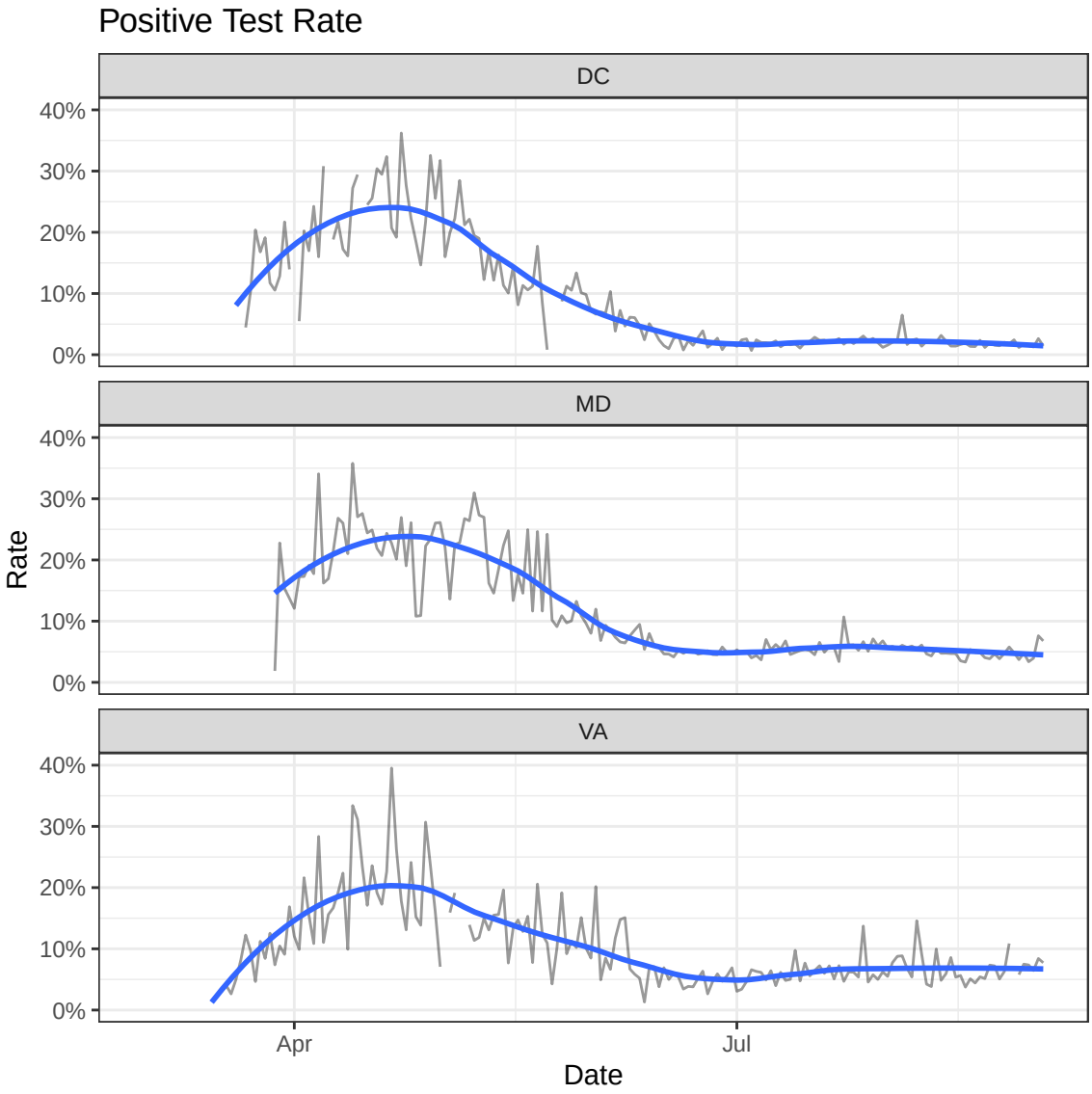

Cases per 1M
1,000
3,162
10,000
31,623


Cases per 1M
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
Apr
Jul
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
Apr
Jul
Date


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