

COVID-19 Dashboard

Issue # 96
Monday, July 6, 2020

"Strategic Guidance in an Era of Unprecedented Change"

Measure	Desired Change	Yesterday in the U.S.
Number of Tests	Increase	~654,000 ; 2 nd highest rate to-date
Test-Positivity Rate	Decline	6.5%; 7.5% for the past 7 days
Number of Cases	Plateau	46,800; Cases increased 21% week-over-week
Deaths % of Total Cases	Decline	4.44%
Number of Deaths / 1M Population	Plateau	400.0
Recoveries : Death	Increase	9.73

- Yesterday brought more encouraging news in the United States, as new cases, test-positive rates and reported deaths each showed day-over-day improvements. The challenge will be sustaining these gains following the holiday weekend, given the propensity to gather in large groups during the holiday
- Testing was the 2nd-highest of any single day, with 654,000 tests; the test-positive rate declined to 6.5% - a rate only recorded on 1 other day in the past 10
- There were 46,800 new cases reported - a 2nd consecutive day under 50,000 and, more than 10,000 fewer than on July 2
 - Texas recorded its 4th consecutive day of declining new cases
 - Arizona is now 4 days removed from its peak; California is now 3 days removed from its peak
 - Florida, despite having fewer new cases yesterday than on the 4th, continues to be near peak daily levels
- For the second consecutive day, deaths were recorded at or near historic lows - the 251 deaths recorded on Sunday and the 217 on Saturday are the fewest on consecutive days since March 22-23
 - A colleague raised the question yesterday whether the recent surge in cases in Arizona, California, Florida and Texas has or will become evident in the number of deaths. So, we reviewed the time lag between new cases and recorded deaths in Connecticut, New Jersey and New York (the states hit early by the virus); we similarly revised the recent experience in Arizona, California, Florida and Texas:
- About a 1-2 week lag was evident between the onset and peak in new cases in the early states and their patterns of recorded deaths
- A similar 1-2 week lag can be observed in the recent data for Arizona, Florida and Texas but, not for California
- Thus, while the recent surge in cases is having some impact on reported deaths, its is not yet enough to overcome the overall decline in the death rate
- States that are doing particularly well on various measures:
 - 11 states have achieved a decline in new infections per capita over the past week: Arkansas, Connecticut, Illinois, Kentucky, Maine, Massachusetts, Minnesota, Nebraska, New Hampshire, New Jersey, and Wyoming
 - 5 states have achieved a decline in test-positive rates over the past week: Connecticut, Kentucky, Oklahoma, Utah and Washington (18 others have kept it unchanged)
 - 9 states have a test-positive rate < 2% for the past week: Alaska, Connecticut, Hawaii, Maine, New Hampshire, New Jersey, New York, Rhode Island and Vermont
 - 5 states have experienced fewer than 20 new daily cases per 1 million population over the past week: Connecticut, Hawaii, New Hampshire, New Jersey and Vermont
- India, which reported nearly 24,000 new cases yesterday, moved past Russia to 3rd overall in total cases. Ecuador moved past Belgium, to 28th overall

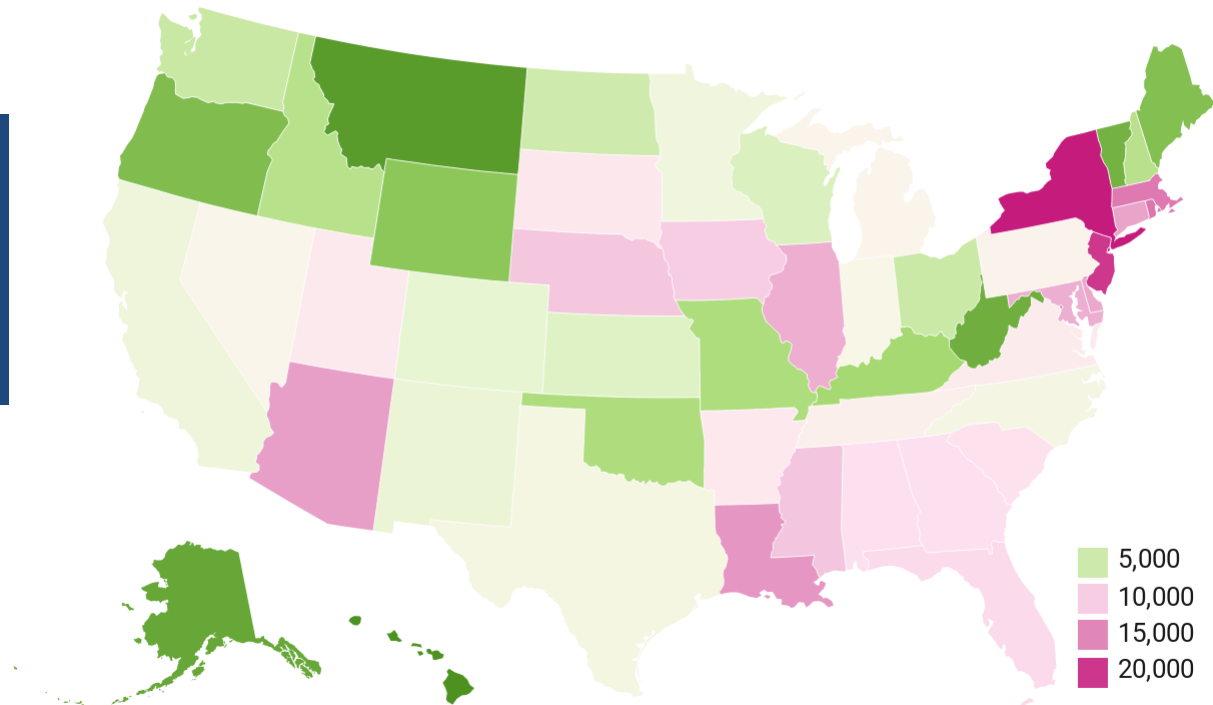
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Cases Per 1 Million Population

As of July 5

Observation:

- Despite the recent surge in cases in Arizona, California, Florida and Texas, these states still report fewer cases per capita than New York and New Jersey



Map: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

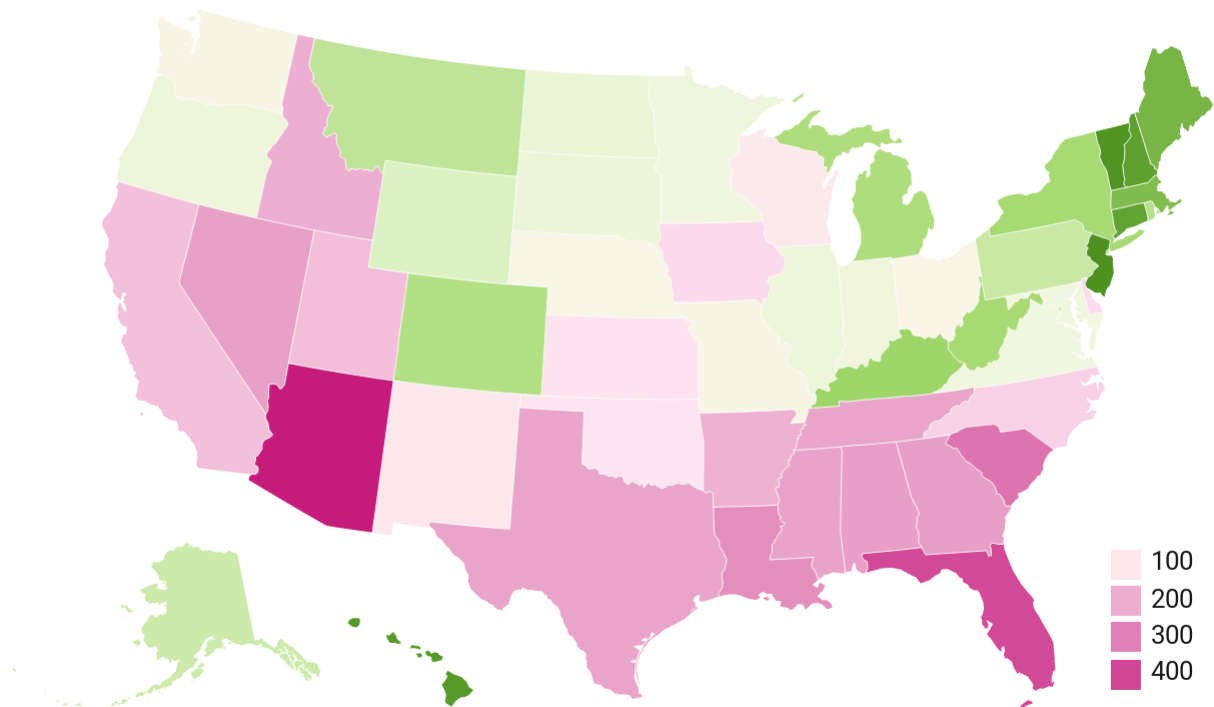
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New Daily Infections Per 1 Million Population

Trailing 7-Day Moving Average

Observations:

- The South continues to experience the highest current rates of new infections per capita
- Arizona and Florida are being impacted the hardest at this time



Map: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

State-By-State Rate of Change In Total Cases

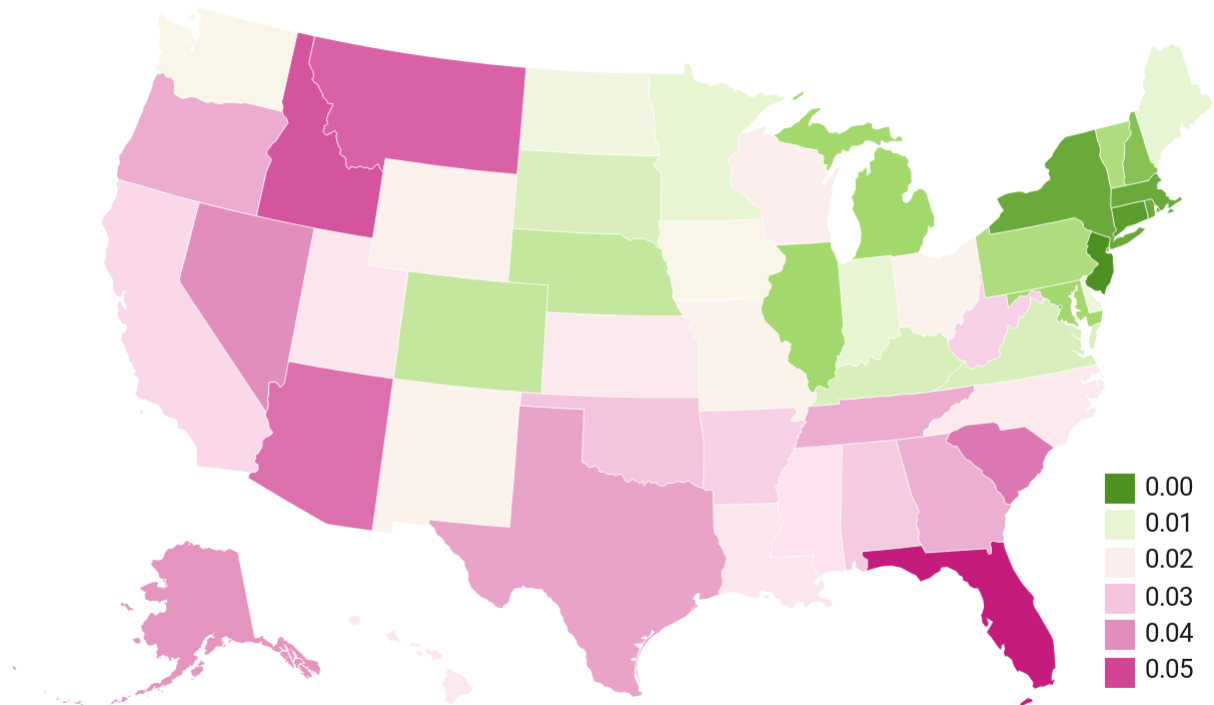
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% Change In Total Cases Per Day

Trailing 5-Day Moving Average

Observations:

- Cases are increasing fastest on a %-basis in Florida
- The South and the West are experiencing the highest rates of increase in cases



Health Industry Advisor LLC analysis

Map: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

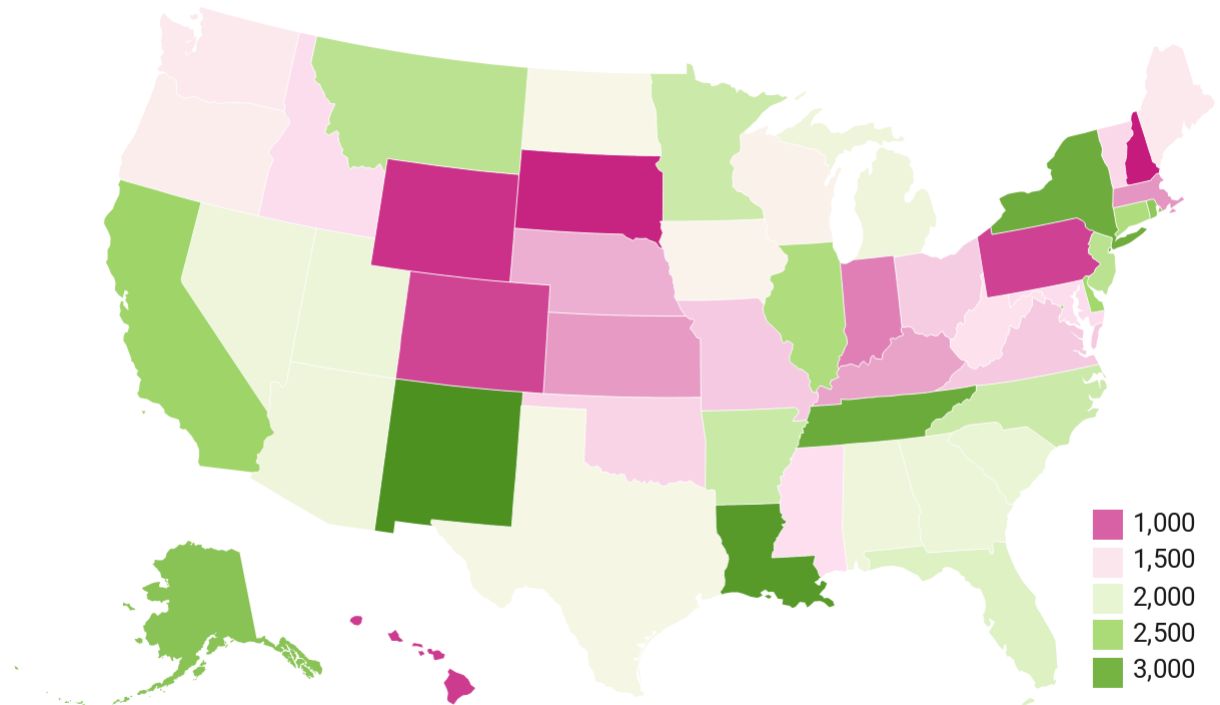
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Tests Per 1 Million Population

Trailing 7-Day Moving Average, As of July 5

Observations:

- There is a wide variation between the states in current testing levels
- Surprisingly, the states currently being hit the hardest by the virus are not the states with the highest testing rates



Health Industry Advisor LC analysis

Map: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

State-By-State Tests Positive Rates

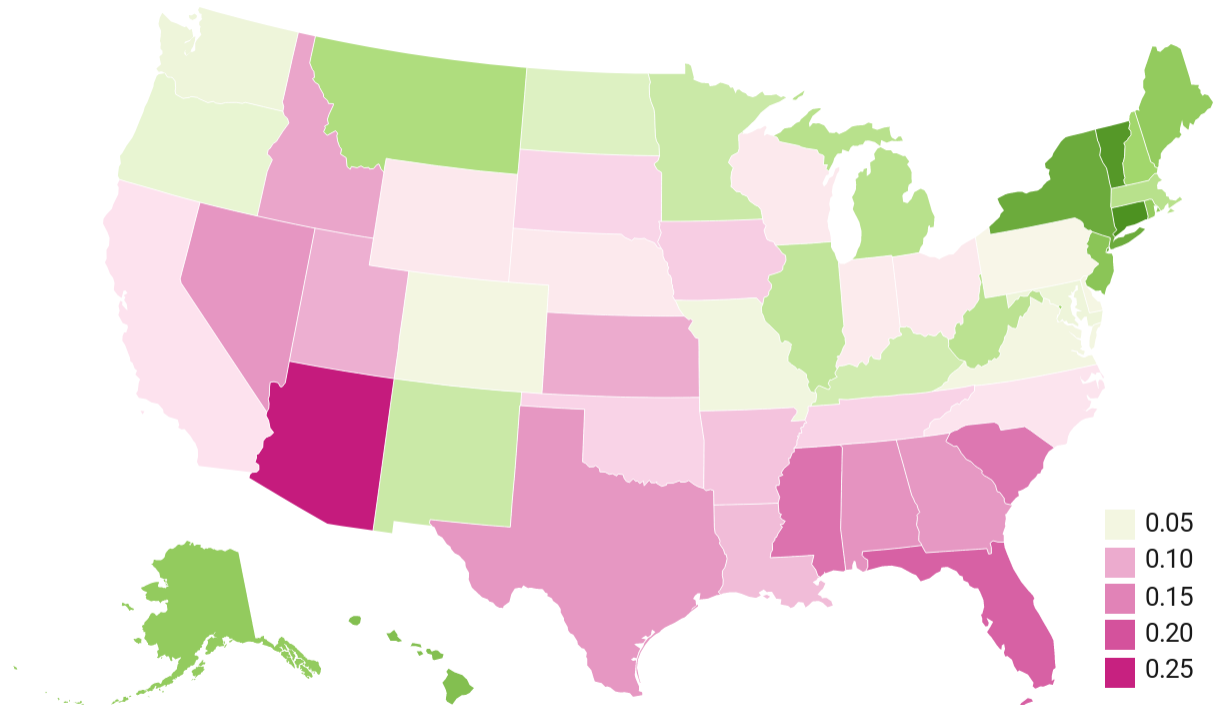
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Test-Positive Rate

Trailing 7-Day Moving Average

Observation:

- The South continues to experience the highest rate of positive tests - and, above the 10% upper limit suggested by health experts



Health Industry Advisor LLC analysis

Map: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

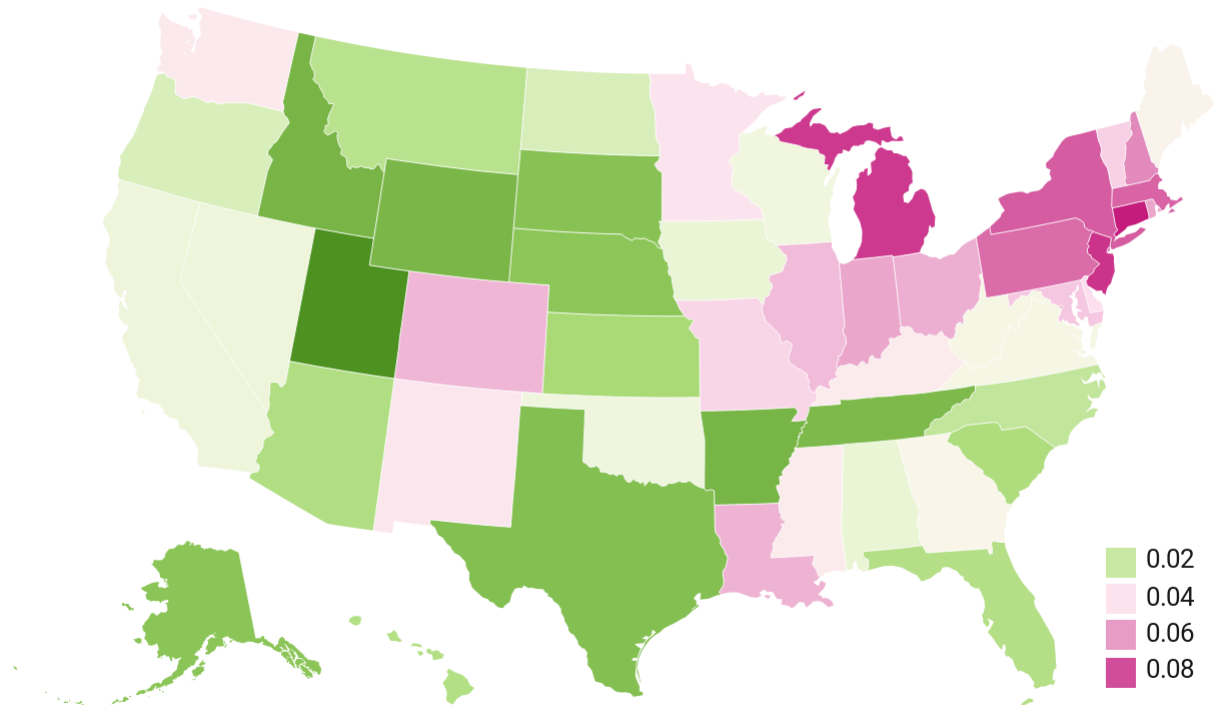
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Deaths Per Case

As of July 5

Observations:

- States hit earliest by the virus have experienced the highest rates of deaths per case
- This may be the result of at several factors:
 - Cases in these early-hit states likely are weighted toward more severe cases, due to limited testing during the peak of their crisis
 - Improved and earlier identification of cases
 - Improved knowledge and treatment of cases
 - Shift toward persons with lower risk factors



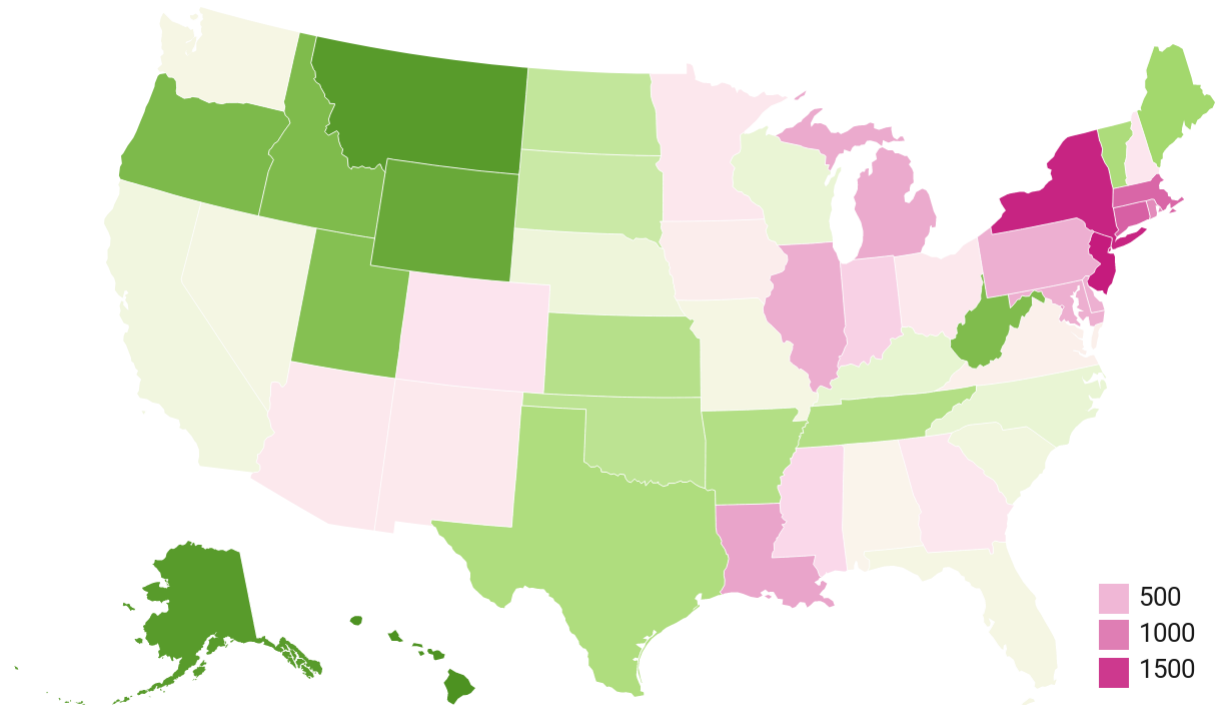
Map: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Deaths Per 1 Million Population

As of July 5

Observations:

- Similar to the rate of deaths per case, states hit earliest by the virus have experienced the highest rates of deaths per capita



Map: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Time Lag- New Case Surge to Newly Reported Deaths

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In the states hit early by the virus, there appears to be a 1-2 week lag between the onset and peak of new cases and the incidence of reported deaths

New Daily Cases - New York

Trailing 7-Day Moving Average

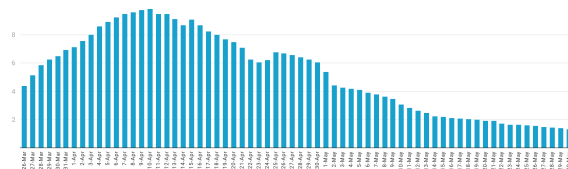


Chart: Health Industry Advisor LLC - Source: worldometers.info - Created with Datawrapper

New Daily Cases - New Jersey

Trailing 7-Day Moving Average

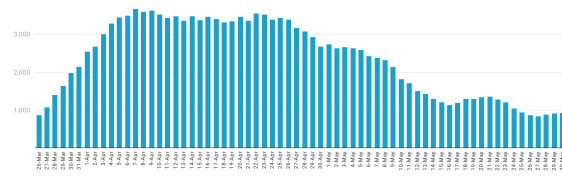


Chart: Health Industry Advisor LLC - Source: worldometers.info - Created with Datawrapper

New Daily Cases - Connecticut

Trailing 7-Day Moving Average

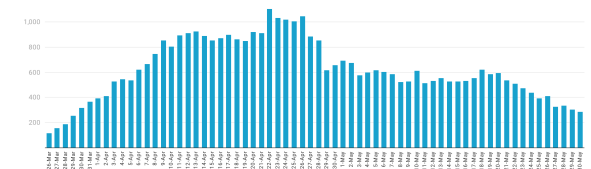


Chart: Health Industry Advisor LLC - Source: worldometers.info - Created with Datawrapper

New Deaths - New York

Trailing 7-Day Moving Average

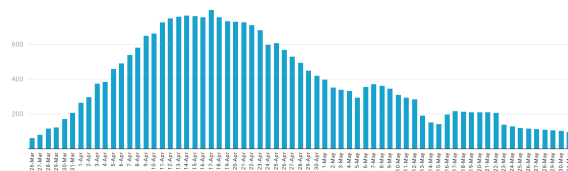


Chart: Health Industry Advisor LLC - Source: worldometers.info - Created with Datawrapper

New Deaths - New Jersey

Trailing 7-Day Moving Average

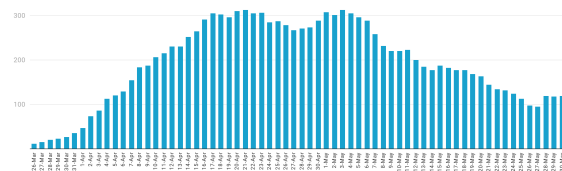


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New Deaths - Connecticut

Trailing 7-Day Moving Average

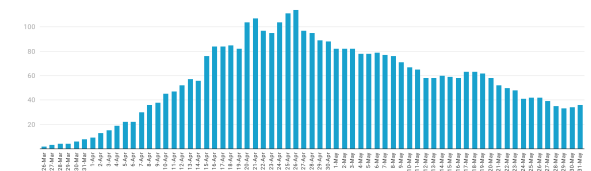


Chart: Health Industry Advisor LLC - Source: worldometers.info - Created with Datawrapper

Time Lag- New Case Surge to Newly Reported Deaths

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A similar pattern has emerged in Arizona but, not California . . .

New Cases - Arizona

Trailing 7-Day Moving Average

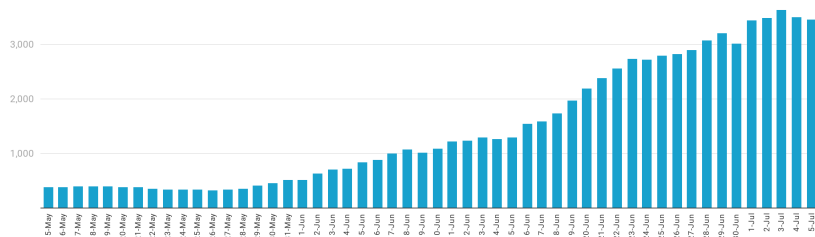


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New Cases - California

Trailing 7-Day Moving Average

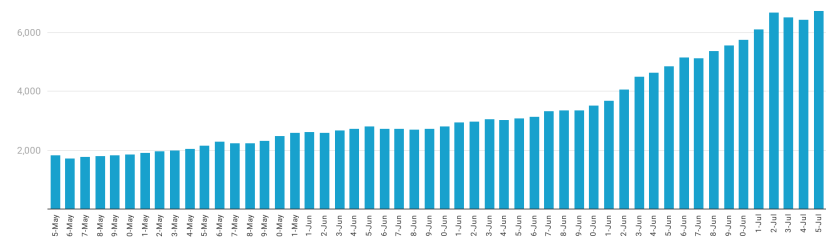


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

New Deaths - Arizona

Trailing 7-Day Moving Average

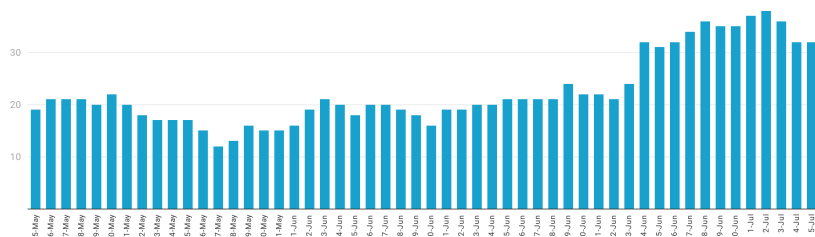


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New Deaths - California

Trailing 7-Day Moving Average

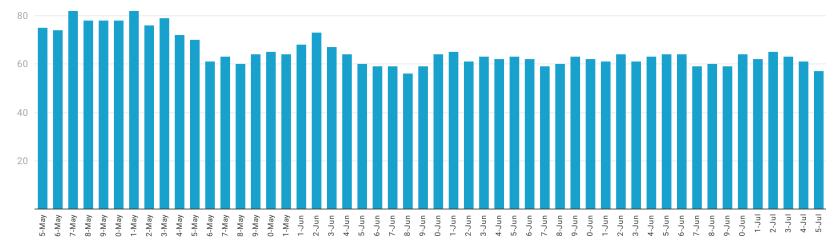


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Time Lag- New Case Surge to Newly Reported Deaths

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... the pattern has also is evident in Florida and Texas

New Cases - Florida

Trailing 7-Day Moving Average

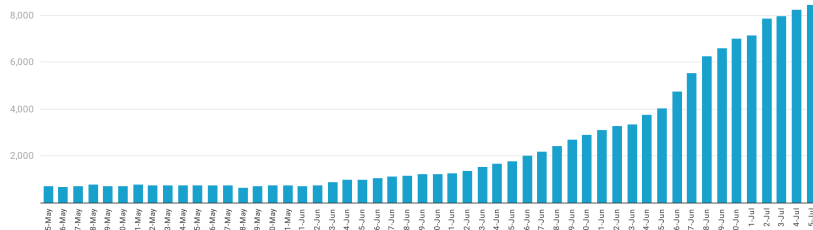


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New Cases - Texas

Trailing 7-Day Moving Average

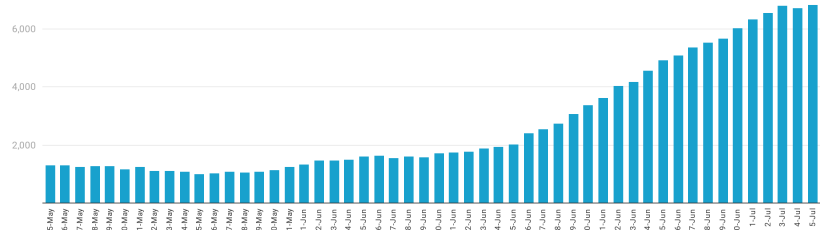


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New Deaths - Florida

Trailing 7-Day Moving Average

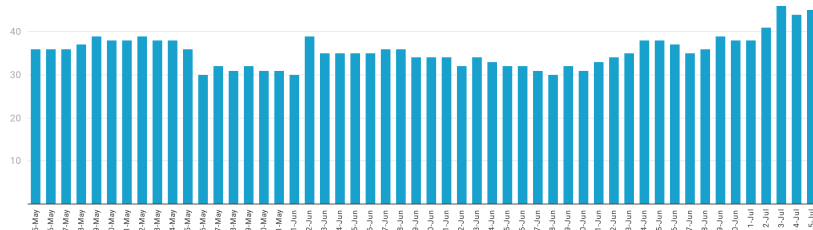


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New Deaths - Texas

Trailing 7-Day Moving Average

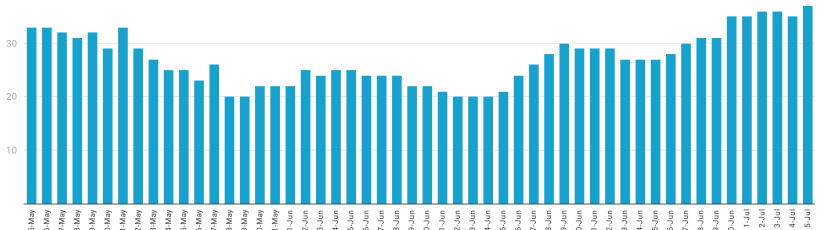
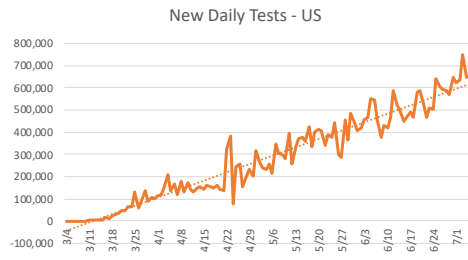


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

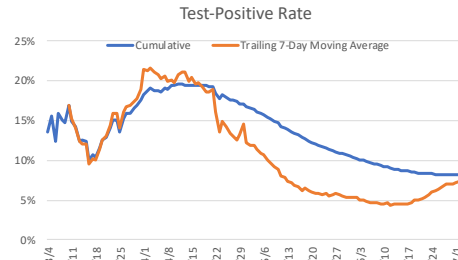
UNITED STATES & STATE-BY-STATE INFORMATION

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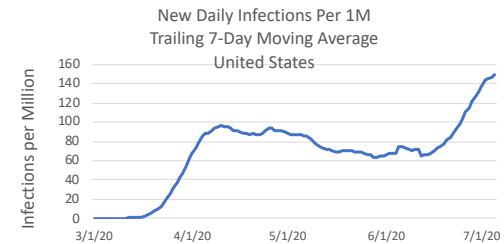
With significantly increased testing, the US is now meeting the WHO standard of <10% test-positives. This suggests that asymptomatic cases are being captured and that we have a better view of true infection rates. Further, new daily infections continue to decline; the death rate seems to have stabilized.



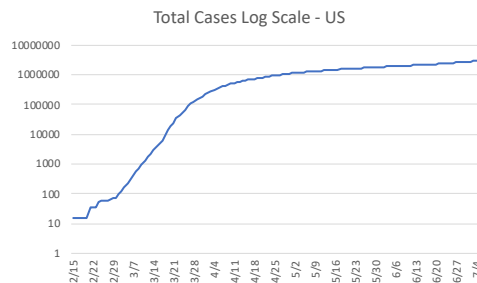
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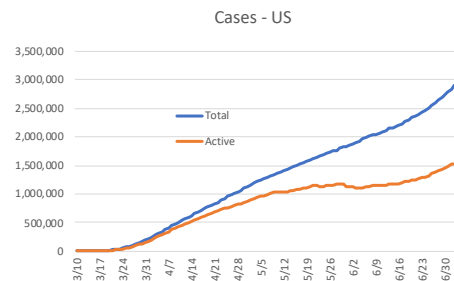
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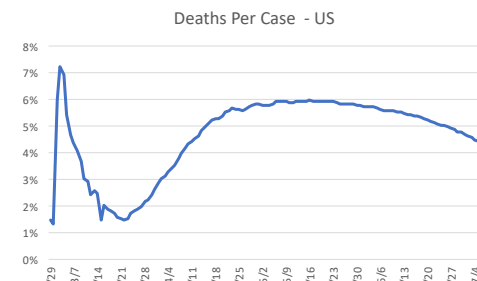
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STATE-BY-STATE OVERALL ASSESSMENT SCORECARD

State-By-State Overall Assessment Scorecard

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Several factors should be considered when assessing where a state stands with its virus progression status:

- Current rate of new infections, relative to its peak (is it declining or near its peak?)
- Test-positive rate
- Rate of change in cases
- Hospitalized patients v. its peak

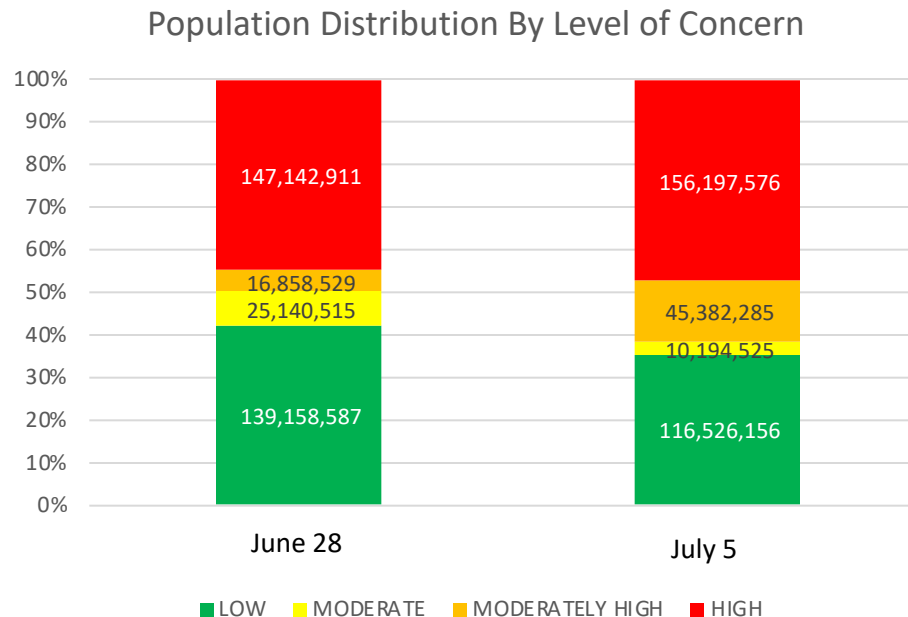
We combined these criteria into a single score, reflective of our relative degree of concern of each state's current status (High, Moderately High, Moderate, Low)



State-By-State Data

Population Distribution By Level of Concern

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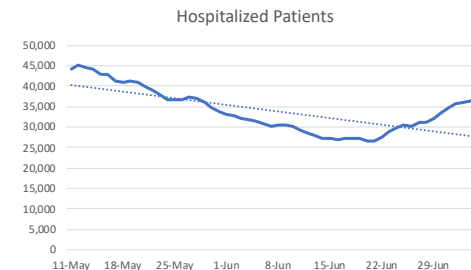
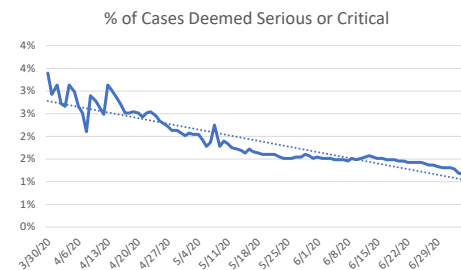
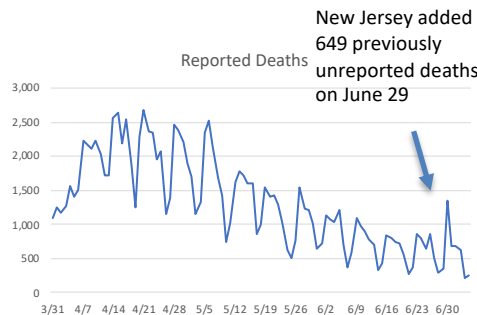
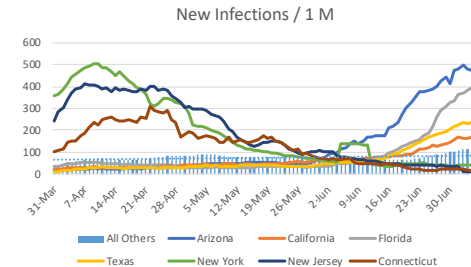
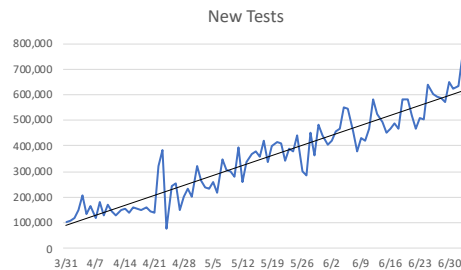
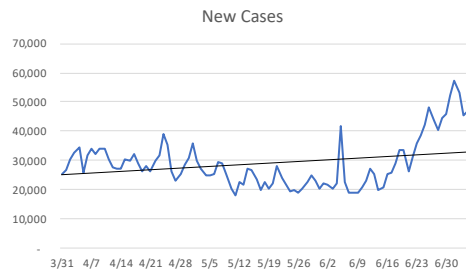
ANALYZING TRENDS IN THE CONCENTRATION & SEVERITY OF THE VIRUS

Tracking The Recent Surge In Cases

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Observations:

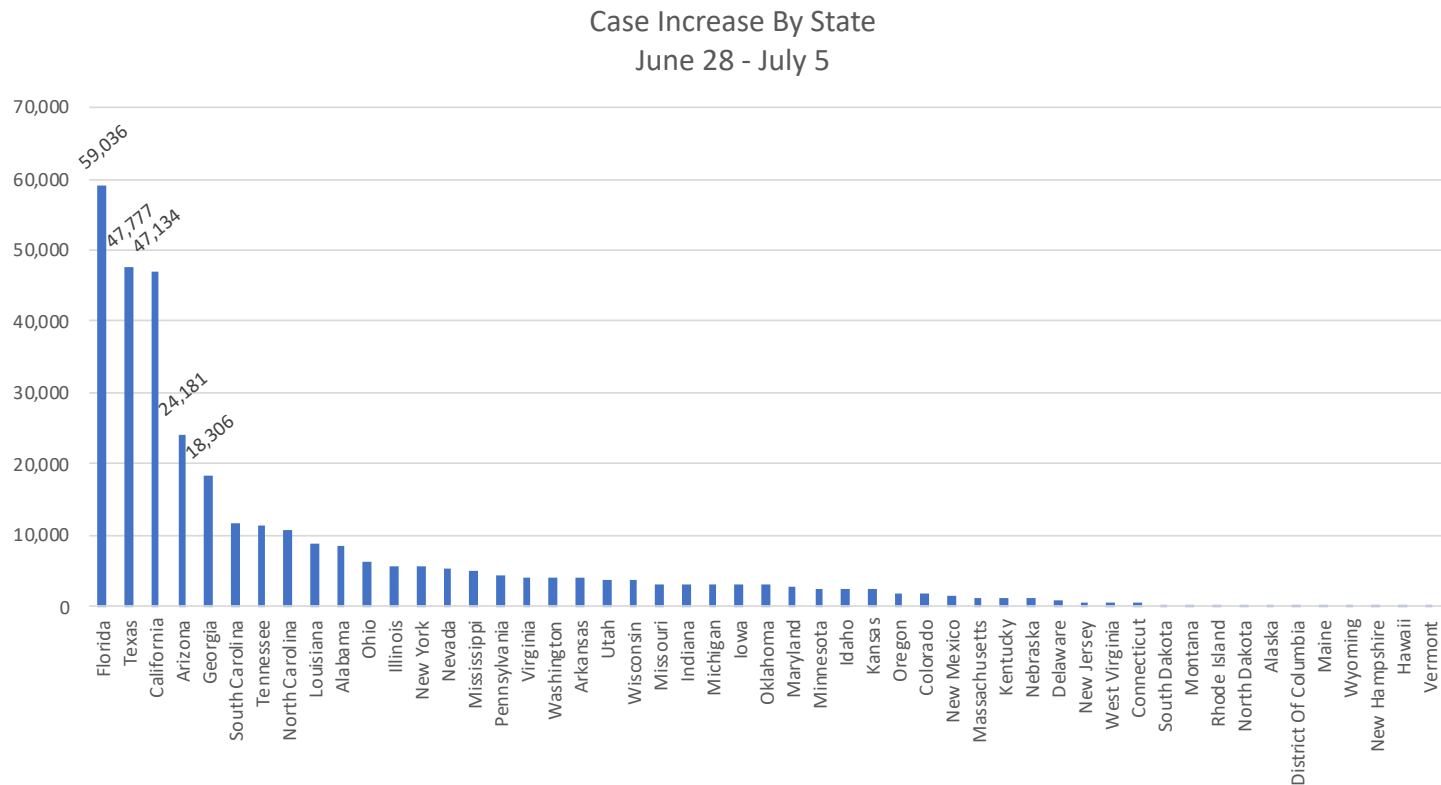
- After steadily declining during April and May, new cases clearly began to rise sharply on June 9
- Although testing has steadily increased, this cannot explain the rise in new cases
The concentrated rise in new infections per capita recently in Arizona, California, Florida and Texas mirrors the concentrated rise in Connecticut, New Jersey and New York in April
- Rates of deaths per case, % of cases deemed serious or critical have steadily declined over time - Better treatment? Earlier identification? Less severity? Infection of a lower risk population?



Case Increases By State – Past 7 Days

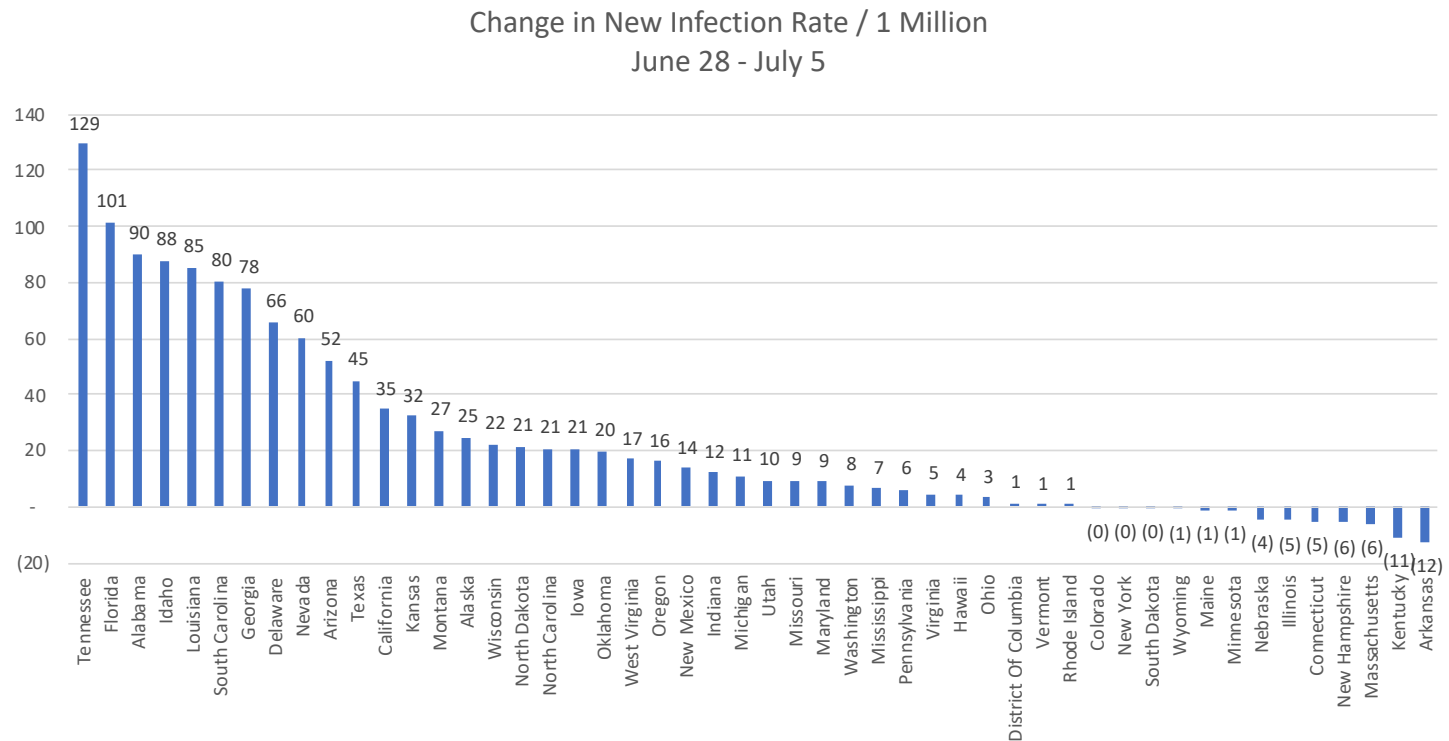
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Case Growth in the U.S. Has Been Concentrated in A Few States



Change In New Infections / 1 Million

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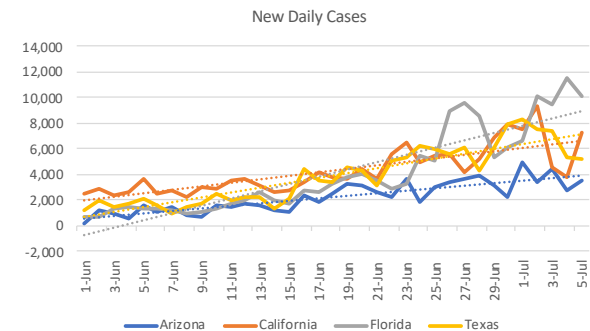
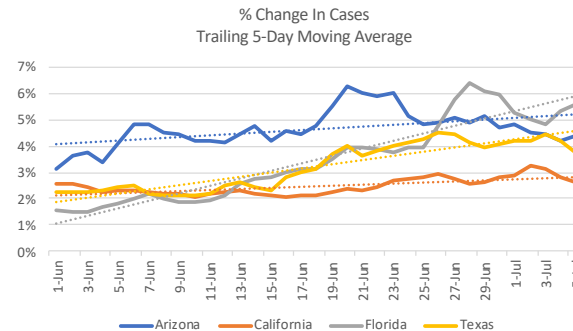
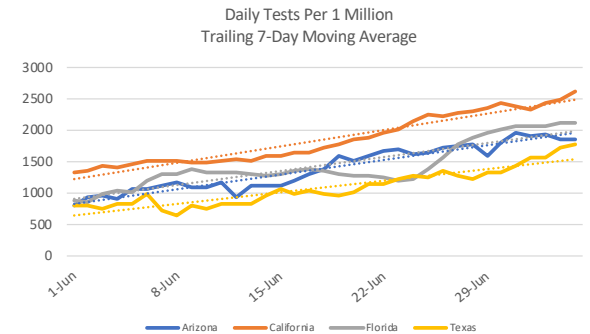
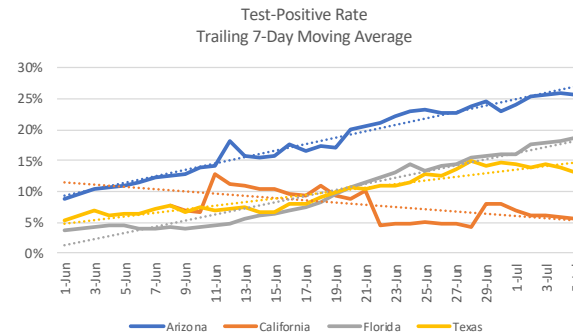


Tracking Testing Rates and Cases Arizona, California, Florida and Texas

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Observations:

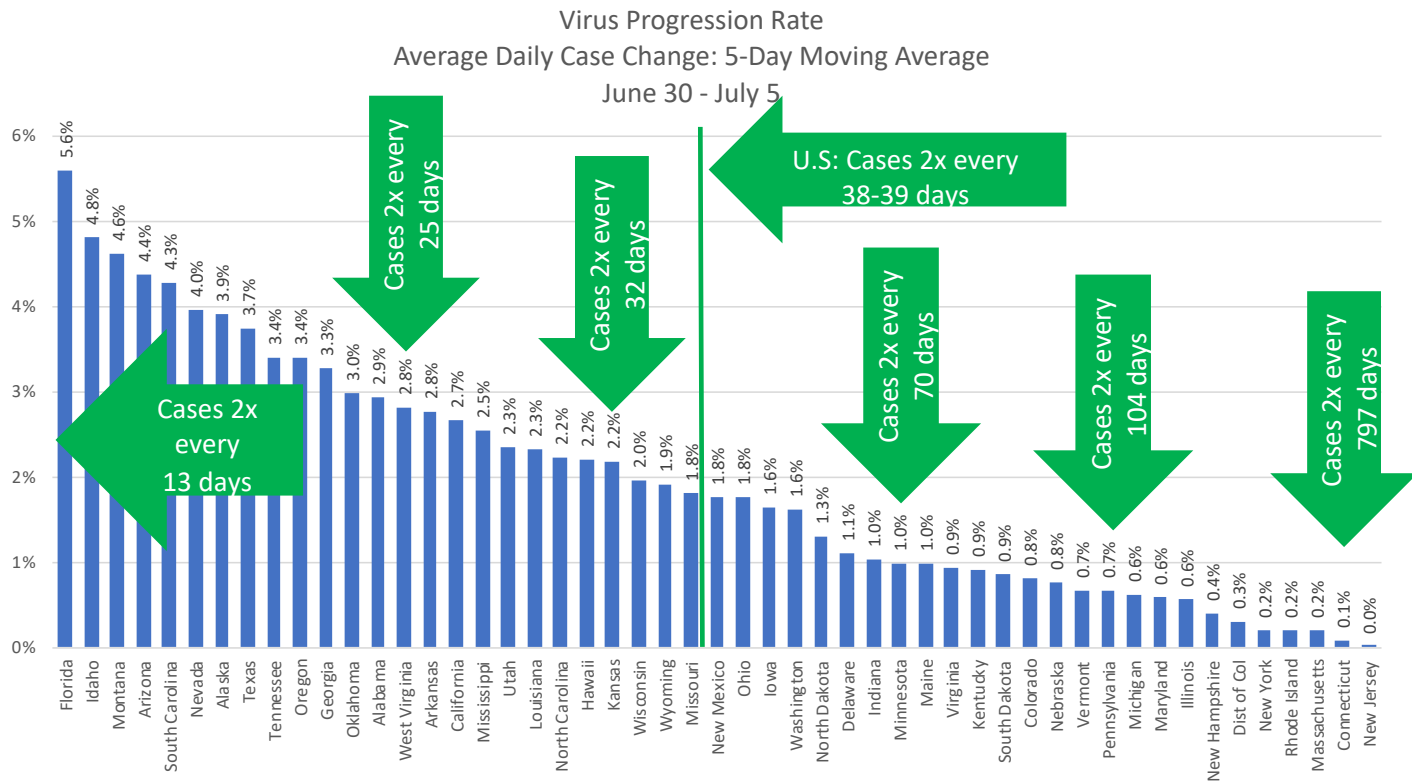
- Arizona and Florida continue to show high and increasing test-positive rates; Texas' rate has begun to decline; California's is low and declining
- Testing rates continue to increase in all 4 states
- Rate of change in case volumes continue to decline in Arizona and Florida; stabilizing in Texas



State-by-State Average Daily Case Growth

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At the height of the epidemic, cases in some states were doubling every few days. Now, they would take from 13 days – infinity? to double

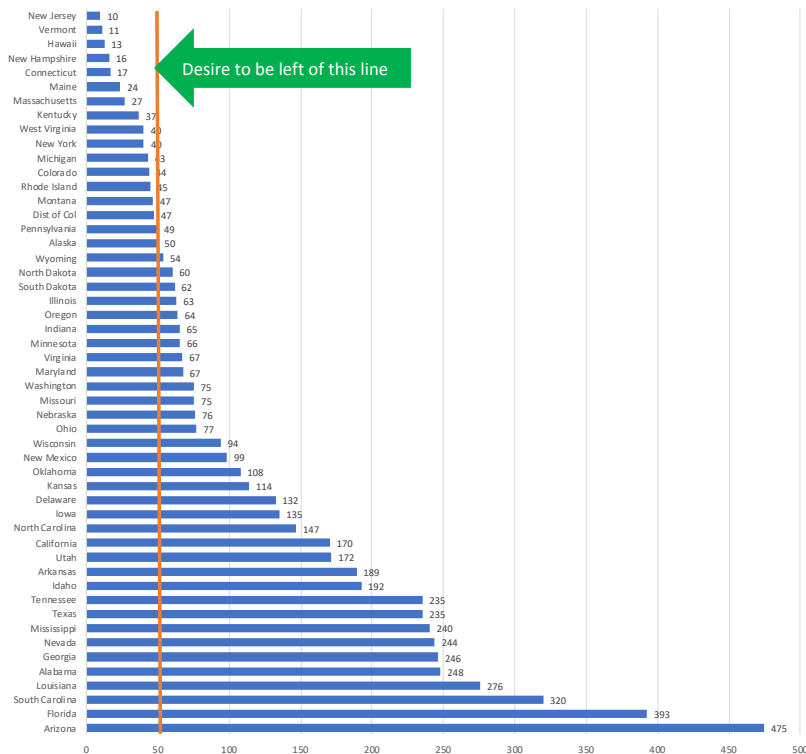


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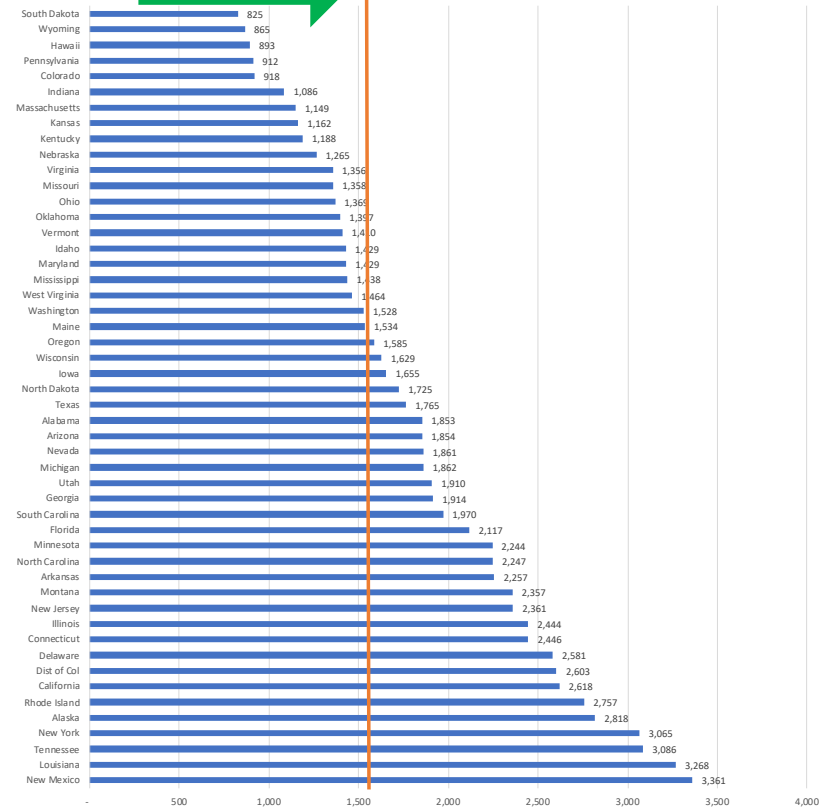
State-by-State New Daily Infections & Tests Per Capita

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New Daily Infections Per 1 Million Population
By State
June 28 - July 5



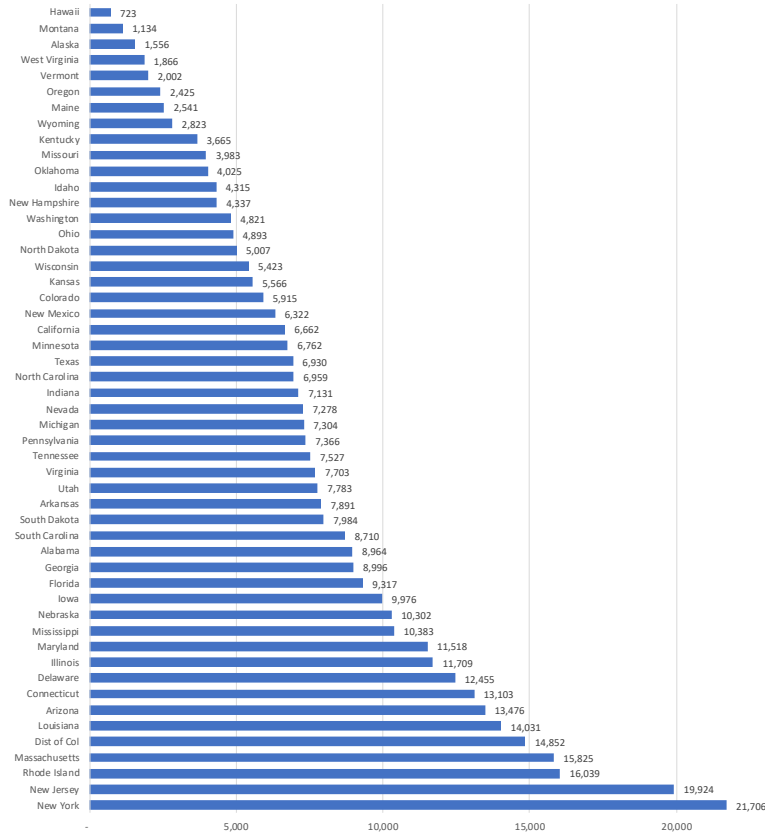
Daily Tests Per 1 Million Population
By State
June 28 - July 5



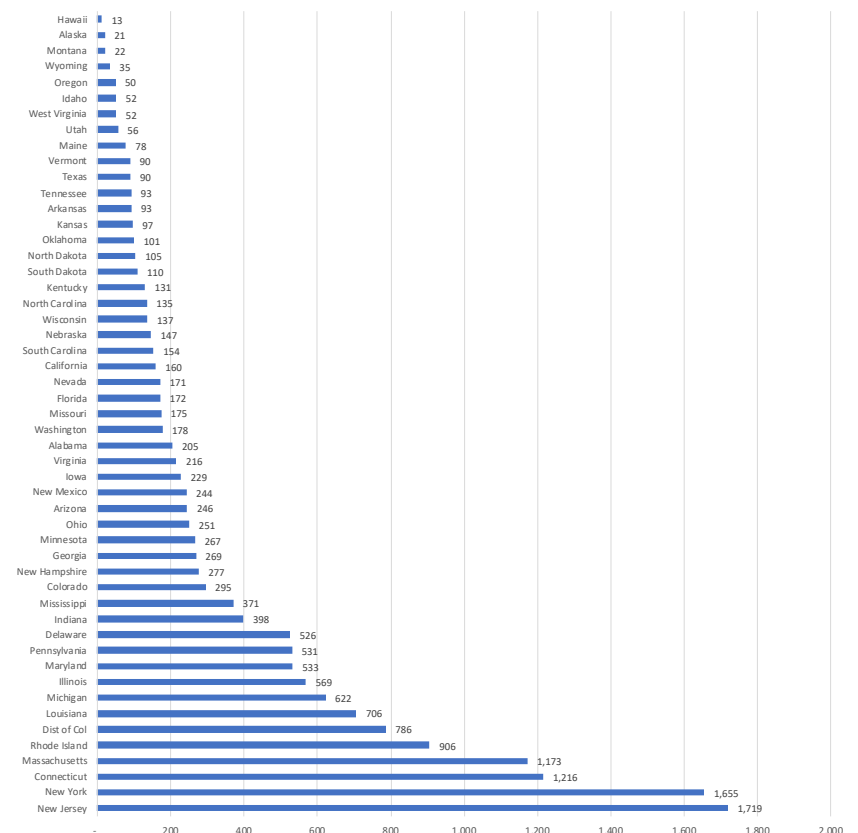
State-by-State Cases & Deaths Per Capita

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Total Cases Per 1 Million Population
By State
As of July 5



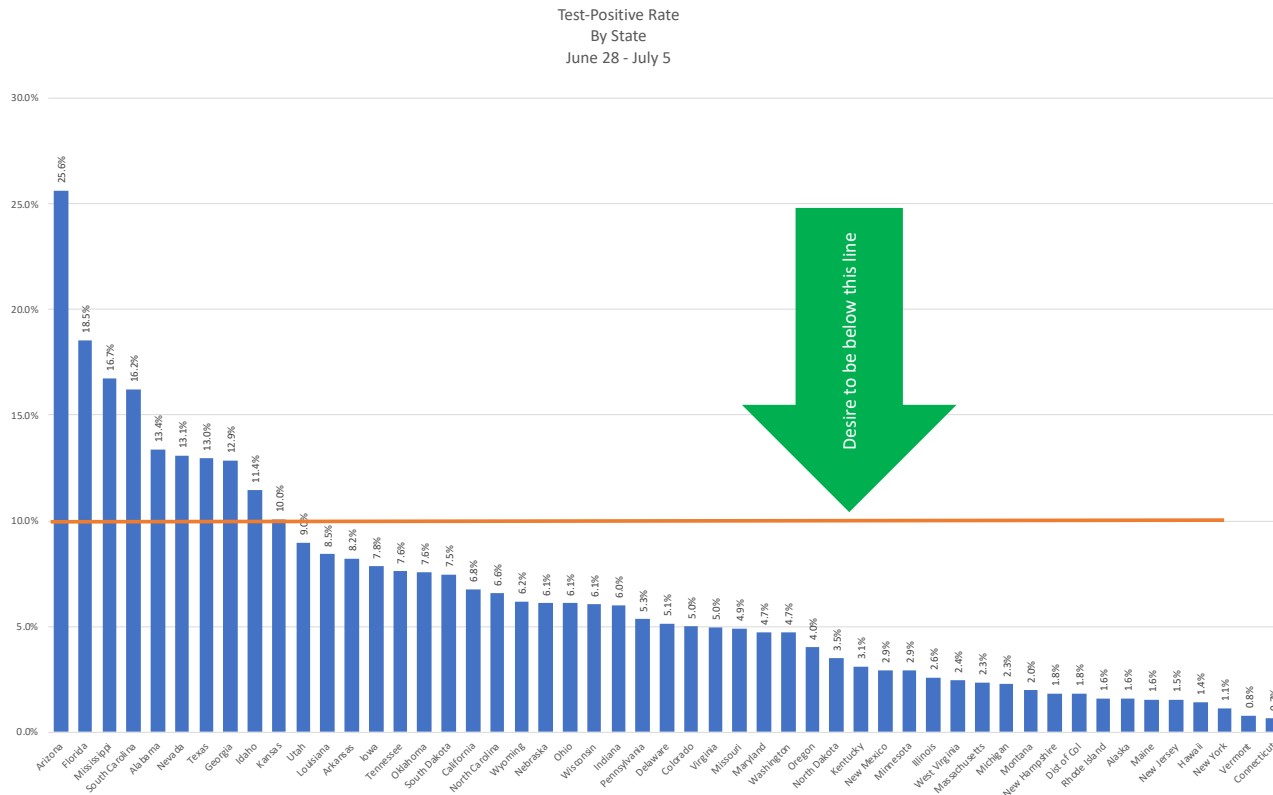
Deaths Per 1 Million Population
By State
As of July 5



Which States Are Performing Sufficient Tests?

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The [World Health Organization](#) suggested that the test-positive rate should be 10% or lower, for testing to be sufficient to assess the true prevalence of the virus. Several states failed to meet this guideline for the past week



As of July 5

State	Total Cases	Rank	Cases per 1M Population	Rank2	Deaths	Rank3	Death Rate	Rank4	Deaths per 1 Million Population	Rank5	5-day Moving Average Case Growth Rate	Rank6	Tests per 1M Population Past 7 days	Rank7	New Daily Cases Per 1M Population (5-Day M.A.)	Rank8
Alabama	43,953	(21)	8,964.2	(17)	1,007	(24)	2.3%	(32)	205.4	(24)	2.9%	(13)	1,853	(24)	226.6	(9)
Alaska	1,138	(50)	1,555.6	(49)	16	(51)	1.4%	(44)	21.9	(49)	3.9%	(7)	2,818	(5)	50.2	(35)
Arizona	98,089	(8)	13,476.1	(7)	1,809	(17)	1.8%	(40)	248.5	(20)	4.4%	(4)	1,854	(23)	480.9	(1)
Arkansas	23,814	(30)	7,891.1	(20)	287	(37)	1.2%	(49)	95.1	(39)	2.8%	(15)	2,257	(14)	184.6	(11)
California	263,223	(2)	6,661.8	(31)	6,337	(6)	2.4%	(30)	160.4	(29)	2.7%	(16)	2,618	(7)	163.1	(14)
Colorado	34,065	(24)	5,915.4	(33)	1,701	(18)	5.0%	(13)	295.4	(15)	0.8%	(38)	918	(46)	45.7	(38)
Connecticut	46,717	(19)	13,103.3	(8)	4,335	(8)	9.3%	(1)	1,215.9	(3)	0.1%	(50)	2,446	(10)	20.5	(47)
Delaware	12,128	(38)	12,454.8	(9)	512	(34)	4.2%	(18)	525.8	(12)	1.1%	(31)	2,581	(9)	132.8	(17)
District Of Columbia	10,482	(39)	14,852.3	(5)	559	(31)	5.3%	(10)	792.1	(6)	0.3%	(46)	2,603	(8)	46.8	(37)
Florida	200,111	(4)	9,317.1	(15)	3,732	(9)	1.9%	(38)	173.8	(27)	5.6%	(1)	2,117	(17)	382.5	(2)
Georgia	95,516	(9)	8,996.2	(16)	2,860	(13)	3.0%	(25)	269.4	(17)	3.3%	(11)	1,914	(19)	246.7	(6)
Hawaii	1,023	(51)	722.5	(51)	19	(50)	1.9%	(39)	13.4	(51)	2.2%	(21)	893	(48)	12.8	(49)
Idaho	7,733	(41)	4,315.1	(40)	93	(45)	1.2%	(50)	51.9	(46)	4.8%	(2)	1,429	(35)	163.5	(13)
Illinois	148,373	(6)	11,708.9	(10)	7,230	(4)	4.9%	(14)	570.6	(9)	0.6%	(44)	2,444	(11)	63.2	(30)
Indiana	48,008	(18)	7,131.1	(27)	2,693	(14)	5.6%	(9)	400.0	(13)	1.0%	(32)	1,086	(45)	60.6	(32)
Iowa	31,475	(26)	9,976.0	(14)	721	(28)	2.3%	(33)	228.5	(22)	1.6%	(28)	1,655	(27)	138.1	(16)
Kansas	16,215	(35)	5,565.8	(34)	284	(39)	1.8%	(42)	97.5	(38)	2.2%	(22)	1,162	(43)	116.6	(18)
Kentucky	16,376	(34)	3,665.4	(43)	585	(30)	3.6%	(23)	130.9	(34)	0.9%	(36)	1,188	(42)	38.7	(43)
Louisiana	65,226	(15)	14,030.7	(6)	3,294	(10)	5.1%	(12)	708.6	(7)	2.3%	(19)	3,268	(2)	260.7	(4)
Maine	3,415	(45)	2,540.5	(45)	109	(42)	3.2%	(24)	81.1	(43)	1.0%	(34)	1,534	(30)	25.8	(46)
Maryland	69,632	(13)	11,517.6	(11)	3,243	(11)	4.7%	(15)	536.4	(10)	0.6%	(43)	1,429	(34)	68.3	(26)
Massachusetts	109,974	(7)	15,824.7	(4)	8,183	(3)	7.4%	(5)	1,177.5	(4)	0.2%	(49)	1,149	(44)	28.7	(45)
Michigan	72,941	(12)	7,303.7	(25)	6,218	(7)	8.5%	(3)	622.6	(8)	0.6%	(42)	1,862	(21)	41.5	(41)
Minnesota	38,136	(22)	6,762.1	(30)	1,508	(19)	4.0%	(19)	267.4	(18)	1.0%	(33)	2,244	(16)	65.6	(27)
Mississippi	30,900	(27)	10,382.5	(12)	1,111	(22)	3.6%	(22)	373.3	(14)	2.5%	(17)	1,438	(33)	246.9	(5)

Note: China only recently started reporting test volumes, as a result, their 7-day rates are inaccurate

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As of July 5

State	Total Cases	Rank	Cases per 1M Population	Rank2	Deaths	Rank3	Death Rate	Rank4	Deaths per 1 Million Population	Rank5	5-day Moving Average Case Growth Rate	Rank6	Tests per 1M Population Past 7 days	Rank7	New Daily Cases Per 1M Population (5-Day M.A.)	Rank8
Missouri	24,444	(29)	3,982.8	(42)	1,074	(23)	4.4%	(17)	175.0	(26)	1.8%	(25)	1,358	(39)	78.4	(23)
Montana	1,212	(49)	1,134.0	(50)	23	(48)	1.9%	(37)	21.5	(50)	4.6%	(3)	2,357	(13)	42.1	(40)
Nebraska	19,929	(32)	10,302.4	(13)	284	(39)	1.4%	(43)	146.8	(31)	0.8%	(39)	1,265	(41)	77.7	(24)
Nevada	22,418	(31)	7,278.2	(26)	534	(32)	2.4%	(31)	173.4	(28)	4.0%	(6)	1,861	(22)	242.8	(7)
New Hampshire	5,897	(43)	4,337.0	(39)	381	(36)	6.5%	(7)	280.2	(16)	0.4%	(45)	803	(51)	14.7	(48)
New Jersey	176,967	(5)	19,923.8	(2)	15,279	(2)	8.6%	(2)	1,720.2	(1)	0.0%	(51)	2,361	(12)	9.9	(50)
New Mexico	13,256	(37)	6,321.9	(32)	513	(33)	3.9%	(20)	244.7	(21)	1.8%	(26)	3,361	(1)	98.4	(20)
New York	422,268	(1)	21,706.5	(1)	32,248	(1)	7.6%	(4)	1,657.7	(2)	0.2%	(47)	3,065	(4)	41.3	(42)
North Carolina	72,983	(11)	6,958.7	(28)	1,425	(20)	2.0%	(36)	135.9	(33)	2.2%	(20)	2,247	(15)	150.3	(15)
North Dakota	3,816	(44)	5,007.5	(36)	80	(46)	2.1%	(35)	105.0	(36)	1.3%	(30)	1,725	(26)	60.2	(33)
Ohio	57,194	(16)	4,892.9	(37)	2,935	(12)	5.1%	(11)	251.1	(19)	1.8%	(27)	1,369	(38)	80.3	(22)
Oklahoma	15,928	(36)	4,025.3	(41)	398	(35)	2.5%	(29)	100.6	(37)	3.0%	(12)	1,397	(37)	108.4	(19)
Oregon	10,230	(40)	2,425.5	(46)	215	(40)	2.1%	(34)	51.0	(47)	3.4%	(10)	1,585	(29)	62.2	(31)
Pennsylvania	94,305	(10)	7,366.4	(24)	6,804	(5)	7.2%	(6)	531.5	(11)	0.7%	(41)	912	(47)	49.5	(36)
Rhode Island	16,991	(33)	16,038.9	(3)	960	(25)	5.7%	(8)	906.2	(5)	0.2%	(48)	2,757	(6)	44.5	(39)
South Carolina	44,847	(20)	8,710.3	(18)	820	(26)	1.8%	(41)	159.3	(30)	4.3%	(5)	1,970	(18)	317.6	(3)
South Dakota	7,063	(42)	7,983.9	(19)	97	(43)	1.4%	(45)	109.6	(35)	0.9%	(37)	825	(50)	64.9	(28)
Tennessee	51,431	(17)	7,526.7	(23)	646	(29)	1.3%	(47)	94.5	(40)	3.4%	(9)	3,086	(3)	208.4	(10)
Texas	200,952	(3)	6,930.4	(29)	2,675	(15)	1.3%	(46)	92.3	(41)	3.7%	(8)	1,765	(25)	231.2	(8)
Utah	24,952	(28)	7,783.0	(21)	184	(41)	0.7%	(51)	57.4	(44)	2.3%	(18)	1,910	(20)	174.4	(12)
Vermont	1,249	(48)	2,001.6	(47)	56	(47)	4.5%	(16)	89.7	(42)	0.7%	(40)	1,410	(36)	8.7	(51)
Virginia	65,748	(14)	7,702.9	(22)	1,853	(16)	2.8%	(27)	217.1	(23)	0.9%	(35)	1,356	(40)	64.6	(29)
Washington	36,708	(23)	4,820.6	(38)	1,359	(21)	3.7%	(21)	178.5	(25)	1.6%	(29)	1,528	(31)	70.0	(25)
West Virginia	3,335	(46)	1,866.1	(48)	95	(44)	2.8%	(26)	53.2	(45)	2.8%	(14)	1,464	(32)	33.8	(44)
Wisconsin	31,577	(25)	5,423.3	(35)	796	(27)	2.5%	(28)	136.7	(32)	2.0%	(23)	1,629	(28)	92.5	(21)
Wyoming	1,634	(47)	2,823.3	(44)	20	(49)	1.2%	(48)	34.6	(48)	1.9%	(24)	865	(49)	52.8	(34)
United States	2,982,928		9,011.8		132,569		4.4%		400.5		1.8%		1,951		149.3	

Note: China only recently started reporting test volumes, as a result, their 7-day rates are inaccurate

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COUNTRY-BY-COUNTRY INFORMATION

Countries Included

"Strategic Guidance in an Era of Unprecedented Change"

- In Mid-March, we began tracking the twenty countries with the most coronavirus cases; in mid-April, we expanded it to the thirty countries with the most cases
- We now have visibility to all 213 countries and 2 conveyances that have at least 1 coronavirus case
- Case and death information is sourced from the [worldometers.info](https://www.worldometers.info/), the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University and the New York Times, each of which are accessed daily; analysis by Health Industry Advisor LLC

Country-By-Country Listing of Countries By Total Cases

"Strategic Guidance in an Era of Unprecedented Change"

Countries making large upward movements are highlighted

When we first expanded our tracking to 30 countries in mid-April, they represented the most countries with cases in the world. Since that time, Austria, Israel, Japan and South Korea have dropped in the rankings. Among the countries that have moved up:

- Afghanistan
- Argentina
- Bangladesh
- Belarus
- Columbia
- Denmark
- Dominican Republic
- Indonesia
- Kuwait
- Poland
- Qatar
- Panama
- Philippines
- Romania
- South Africa
- UAE
- Ukraine

The original 30 still account for 82.7% of all cases worldwide.

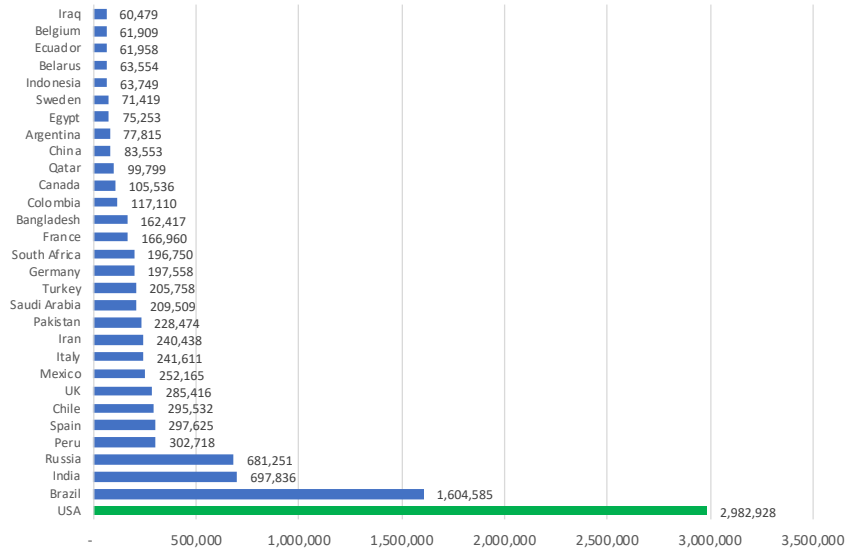
Total Cases								
Rank	Country	5-Jul	Rank	Country	6-May	Rank	Country	27-Apr
1	USA	2,982,928	1	USA	1,263,092	1	USA	1,010,356
2	Brazil	1,604,585	2	Spain	253,682	2	Spain	229,422
3	India	697,836	3	Italy	214,457	3	Italy	199,414
4	Russia	681,251	4	UK	201,101	4	France	128,339
5	Peru	302,718	5	France	174,191	5	Germany	158,758
6	Spain	297,625	6	Germany	168,162	6	UK	157,149
7	Chile	295,532	7	Russia	165,929	7	Turkey	112,261
8	UK	285,416	8	Turkey	131,744	8	Iran	91,472
9	Mexico	252,165	9	Brazil	126,611	9	Russia	87,147
10	Italy	241,611	10	Iran	101,650	10	China	82,830
11	Iran	240,438	11	China	82,883	11	Brazil	66,501
12	Pakistan	228,474	12	Canada	63,496	12	Canada	48,500
13	Saudi Arabia	209,509	13	Peru	54,817	13	Belgium	46,687
14	Turkey	205,758	14	India	52,987	14	Netherlands	38,245
15	Germany	197,558	15	Belgium	50,781	15	India	29,451
17	France	166,960	16	Netherlands	41,319	16	Switzerland	29,164
20	Canada	105,536	17	Saudi Arabia	31,938	17	Peru	28,669
22	China	83,553	18	Switzerland	30,060	18	Portugal	24,070
25	Sweden	71,419	19	Ecuador	29,420	19	Ecuador	23,240
28	Ecuador	61,958	20	Portugal	26,182	20	Ireland	19,648
29	Belgium	61,909	21	Mexico	26,025	21	Sweden	18,926
32	Netherlands	50,621	22	Sweden	23,918	22	Saudi Arabia	18,811
37	Singapore	44,800	23	Pakistan	23,214	23	Israel	15,555
39	Portugal	43,897	24	Chile	23,048	24	Austria	15,274
45	Switzerland	32,268	25	Ireland	22,248	25	Mexico	14,677
46	Israel	29,958	26	Singapore	20,198	26	Singapore	14,423
51	Ireland	25,527	29	Israel	16,310	27	Pakistan	13,915
56	Japan	19,522	31	Austria	15,684	28	Chile	13,813
57	Austria	18,280	32	Japan	15,253	29	Japan	13,614
63	S. Korea	13,091	38	S. Korea	10,806	35	South Korea	10,738
	Others	1,997,839		Others	356,176		Others	301,446
	World	11,550,542			3,817,382		World	3,062,515

Country-by-Country Cases & Cases Per Capita

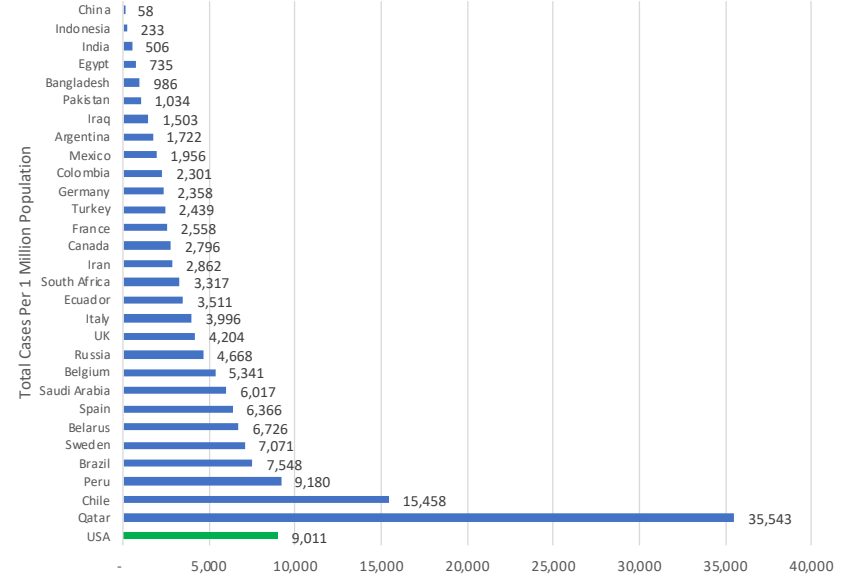
"Strategic Guidance in an Era of Unprecedented Change"

Countries Ranked 1-30 In Total Cases

Total Cases By Country
July 5

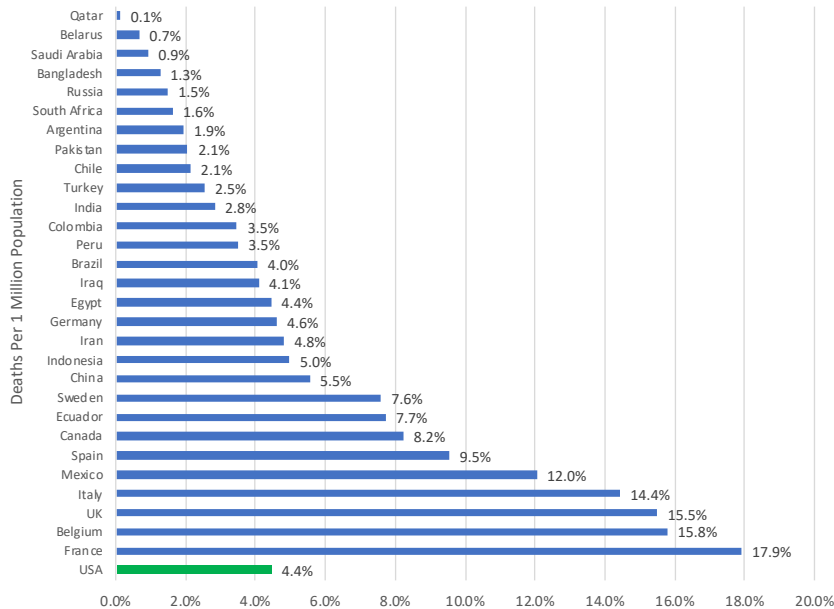


Cases Per Capita By Country
July 5

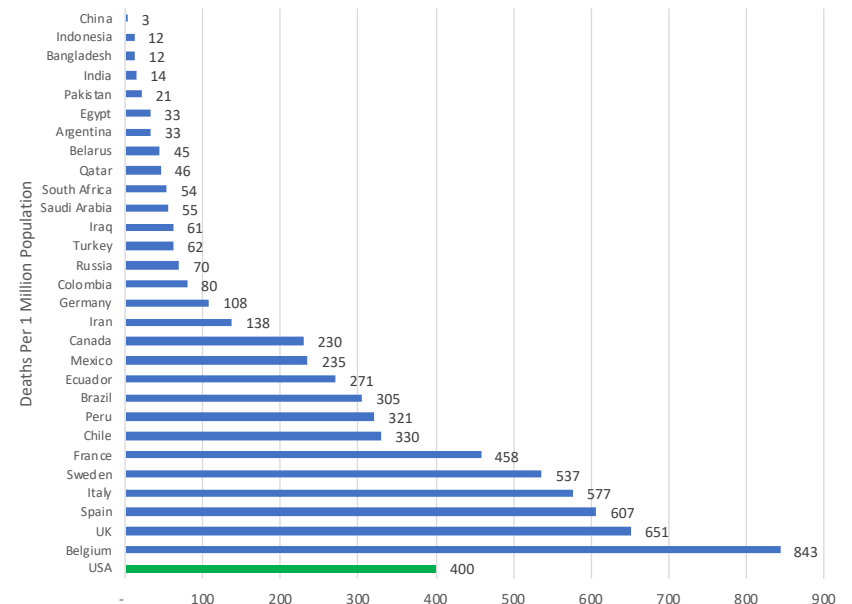


Countries Ranked 1-30 In Total Cases

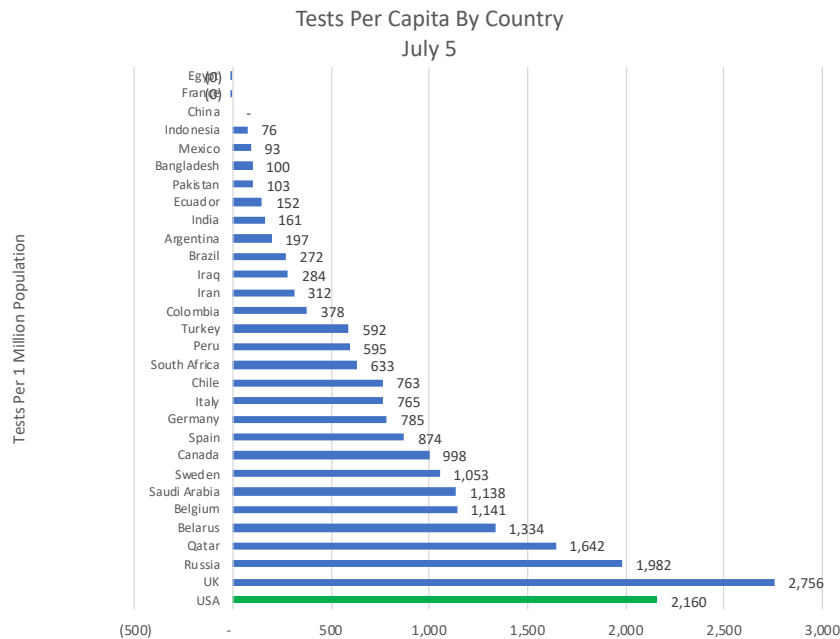
Death Rate By Country
July 5



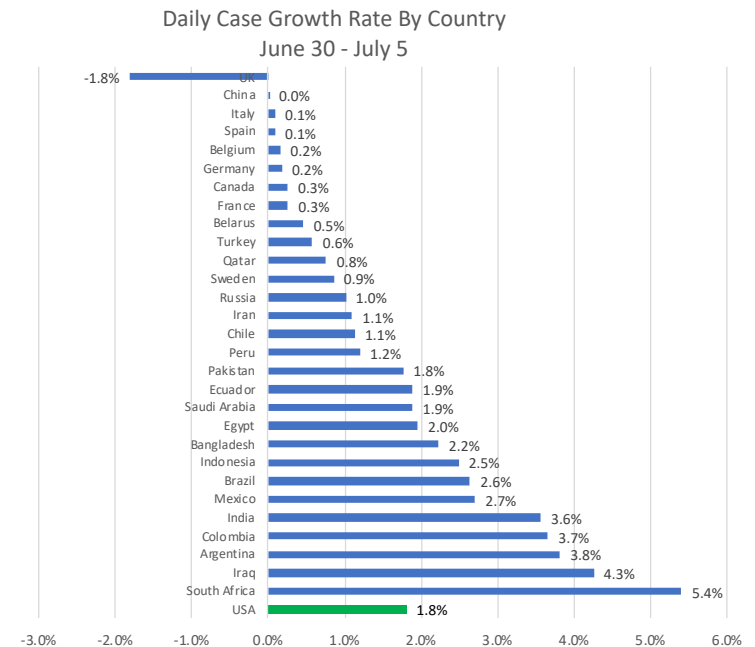
Deaths Per Capita By Country
July 5



Countries Ranked 1-30 In Total Cases



Daily Tests Per Capita For Past Week

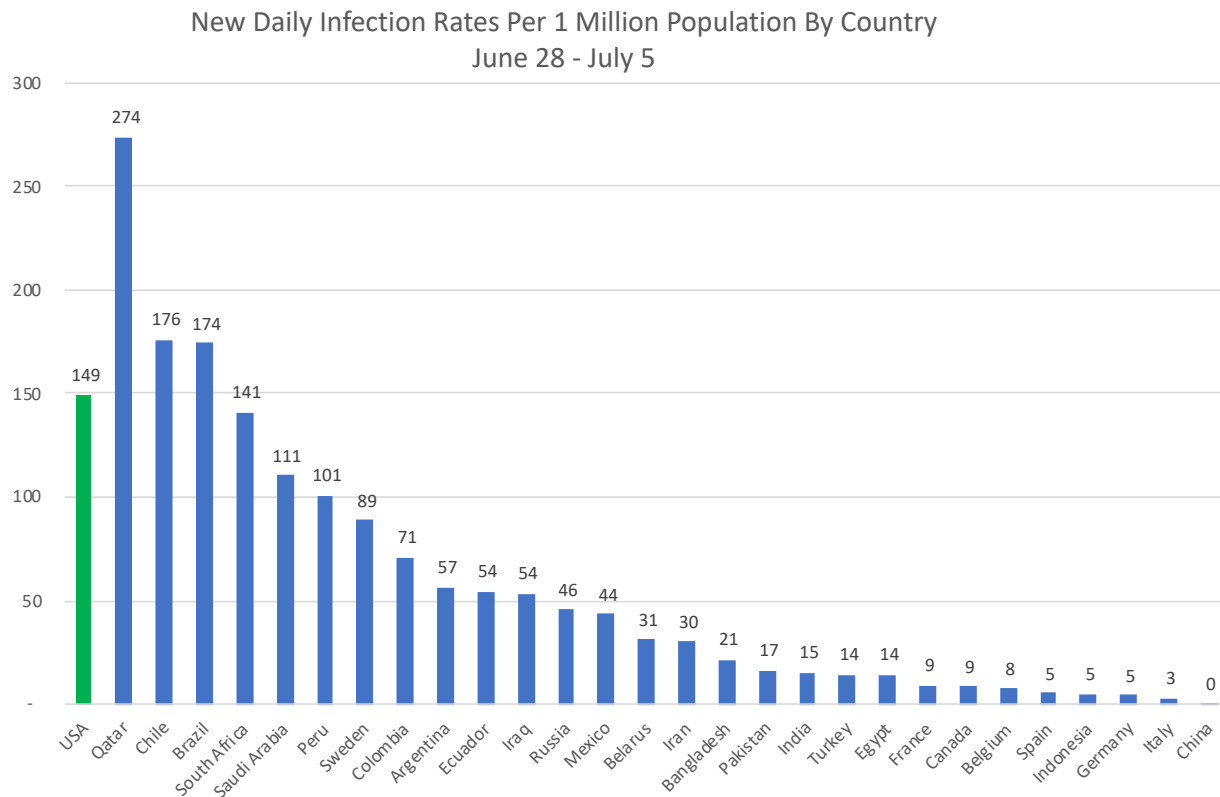


Daily Case Growth – 5-Day Moving Average

Country-by-Country New Daily Infection Rates

"Strategic Guidance in an Era of Unprecedented Change"

Countries Ranked 1-30 In Total Cases



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Country-by-Country Comparative Statistics

"Strategic Guidance in an Era of Unprecedented Change"

Top 30 Countries By Total Cases
As of July 5

Country	Total Cases	Rank	Cases per 1M Population	Rank2	Deaths	Rank3	Death Rate	Rank4	Deaths per 1 Million Population	Rank5	5-day Moving Average Case Growth Rate	Rank6	Tests per 1M Population - Past 7 Days	Rank7	New Daily Infections Per 1M Population (7-Day M.A.)	Rank8
USA	2,982,928	(1)	9,011	(4)	132,569	(1)	4.4%	(14)	400.5	(7)	1.8%	(13)	2,160	(2)	149.3	(4)
Brazil	1,604,585	(2)	7,548	(5)	64,900	(2)	4.0%	(17)	305.3	(10)	2.6%	(7)	272	(20)	174.3	(3)
India	697,836	(3)	506	(28)	19,700	(8)	2.8%	(20)	14.3	(27)	3.6%	(5)	161	(22)	15.4	(19)
Russia	681,251	(4)	4,668	(11)	10,161	(11)	1.5%	(26)	69.6	(17)	1.0%	(18)	1,982	(3)	45.8	(13)
Peru	302,718	(5)	9,180	(3)	10,589	(10)	3.5%	(18)	321.1	(9)	1.2%	(15)	595	(15)	100.9	(7)
Spain	297,625	(6)	6,366	(8)	28,385	(7)	9.5%	(6)	607.1	(3)	0.1%	(27)	874	(10)	5.4	(25)
Chile	295,532	(7)	15,458	(2)	6,308	(15)	2.1%	(22)	329.9	(8)	1.1%	(16)	763	(13)	176.0	(2)
UK	285,416	(8)	4,204	(12)	44,220	(3)	15.5%	(3)	651.3	(2)	-1.8%	(30)	2,756	(1)	(54.2)	(30)
Mexico	252,165	(9)	1,956	(22)	30,366	(5)	12.0%	(5)	235.5	(12)	2.7%	(6)	93	(26)	43.6	(14)
Italy	241,611	(10)	3,996	(13)	34,861	(4)	14.4%	(4)	576.6	(4)	0.1%	(28)	765	(12)	3.1	(28)
Iran	240,438	(11)	2,862	(16)	11,571	(9)	4.8%	(12)	137.7	(14)	1.1%	(17)	312	(18)	30.2	(16)
Pakistan	228,474	(12)	1,034	(25)	4,712	(19)	2.1%	(23)	21.3	(26)	1.8%	(14)	103	(24)	16.5	(18)
Saudi Arabia	209,509	(13)	6,017	(9)	1,916	(27)	0.9%	(28)	55.0	(20)	1.9%	(11)	1,138	(7)	110.8	(6)
Turkey	205,758	(14)	2,439	(19)	5,225	(17)	2.5%	(21)	61.9	(18)	0.6%	(21)	592	(16)	14.4	(20)
Germany	197,558	(15)	2,358	(20)	9,086	(13)	4.6%	(13)	108.4	(15)	0.2%	(25)	785	(11)	4.6	(27)
South Africa	196,750	(16)	3,317	(15)	3,199	(23)	1.6%	(25)	53.9	(21)	5.4%	(1)	633	(14)	141.2	(5)
France	166,960	(17)	2,558	(18)	29,893	(6)	17.9%	(1)	457.9	(6)	0.3%	(23)	0	(29)	8.8	(22)
Bangladesh	162,417	(18)	986	(26)	2,052	(26)	1.3%	(27)	12.5	(28)	2.2%	(9)	100	(25)	21.4	(17)
Colombia	117,110	(19)	2,301	(21)	4,064	(21)	3.5%	(19)	79.9	(16)	3.7%	(4)	378	(17)	71.1	(9)
Canada	105,536	(20)	2,796	(17)	8,684	(14)	8.2%	(7)	230.1	(13)	0.3%	(24)	998	(9)	8.7	(23)
Qatar	99,799	(21)	35,543	(1)	128	(30)	0.1%	(30)	45.6	(22)	0.8%	(20)	1,642	(4)	274.0	(1)
China	83,553	(22)	58	(30)	4,634	(20)	5.5%	(10)	3.2	(30)	0.0%	(29)	0	(28)	0.0	(29)
Argentina	77,815	(23)	1,722	(23)	1,507	(28)	1.9%	(24)	33.3	(24)	3.8%	(3)	197	(21)	56.5	(10)
Egypt	75,253	(24)	735	(27)	3,343	(22)	4.4%	(15)	32.7	(25)	2.0%	(10)	0	(29)	14.0	(21)
Sweden	71,419	(25)	7,071	(6)	5,420	(16)	7.6%	(9)	536.6	(5)	0.9%	(19)	1,053	(8)	88.9	(8)
Indonesia	63,749	(26)	233	(29)	3,171	(24)	5.0%	(11)	11.6	(29)	2.5%	(8)	76	(27)	5.1	(26)
Belarus	63,554	(27)	6,726	(7)	423	(29)	0.7%	(29)	44.8	(23)	0.5%	(22)	1,334	(5)	31.4	(15)
Ecuador	61,958	(28)	3,511	(14)	4,781	(18)	7.7%	(8)	270.9	(11)	1.9%	(12)	152	(23)	54.3	(11)
Belgium	61,909	(29)	5,341	(10)	9,771	(12)	15.8%	(2)	843.0	(1)	0.2%	(26)	1,141	(6)	7.6	(24)
Iraq	60,479	(30)	1,503	(24)	2,473	(25)	4.1%	(16)	61.5	(19)	4.3%	(2)	284	(19)	53.5	(12)

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