

COVID-19 Dashboard

Issue # 94
Saturday, July 4, 2020

"Strategic Guidance in an Era of Unprecedented Change"

Measure	Desired Change	Yesterday in the U.S.
Number of Tests	Increase	>750,000 on Friday – the most of any day yet
Test-Positivity Rate	Decline	7.8% on Friday; 7.5% for past week
Number of Cases	Plateau	~53,400. Cases increased 32.2% week-over-week
Deaths % of Total Cases	Decline	4.57%
Number of Deaths / 1M Population	Plateau	399.1
Recoveries : Death	Increase	9.35

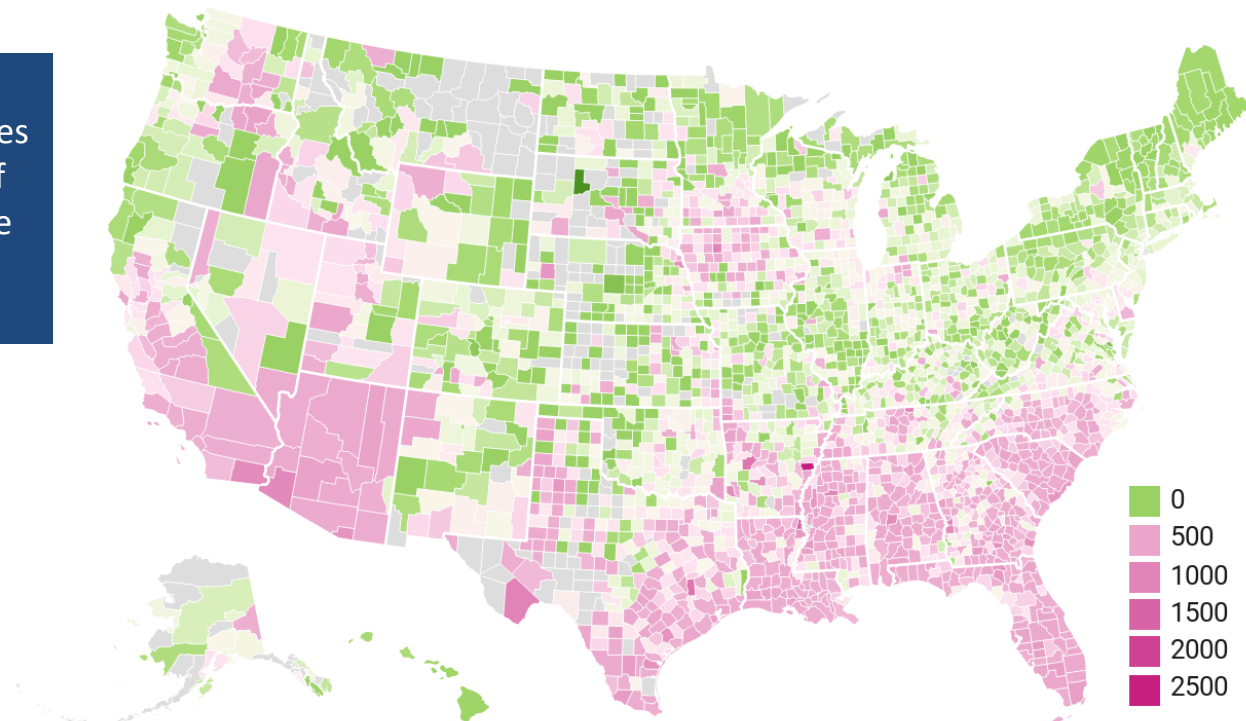
- New cases were high again on Friday (53,399), although this is lower than Thursday's record case count (57,236)
- This modest decline in new cases was despite a new record testing volume - 751,345. This represents 16% more tests than on the previous high this past Tuesday. On a week-over-week basis, testing is up 16%
- With the higher test volume, the test-positive rate dropped to 7.8%, compared to 8.3% on Thursday and 8.5% on Wednesday
- 616 deaths were reported in the United States yesterday; this is slightly lower than each of the past 3 days. The cumulative death rate is now down to 4.57%. There has yet to be any discernible upward trend in the death rate from the nearly month-long surge in cases
- The Centers for Disease Control recently released data suggesting that the actual number of infections in the United States are 10x what is being identified and reported via testing. Because of acute testing limitations early in the crisis, it is probable that this under-reporting was even more pronounced in April and May than it is today. In a recently-published Bloomberg article ("[Why this coronavirus wave isn't like the first wave](#)") Justin Fox proposes a methodology for estimating actual new infections, based on trailing 7-day test-positive rates. His results are in line with the CDC's estimated cases. Applying his methodology:
 - New infections are indeed rising of late and, may be closer to 400,000 per day than the reported ~50,000
 - However, the current level of new infection rate, rather than seemingly setting new records each day, would be 40% lower than it was at its peak in early April
 - Carrying this forward to the death rate, this rate would be ~ 0.45% of total cases
- 46 states report hospitalization data for COVID-19 patients. Of these, 1/2 show declining patient volumes during the past 7 and 14 days; 1/2 show increasing patient volumes (chart included in the report)
- Based on rates of new infections, test-positive %, hospitalizations and daily case increases:
 - 15 states (46% of the population) are currently in our "High" concern category: Alabama, Arizona, Arkansas, California, Florida, Georgia, Idaho, Kansas, Mississippi, Nevada, North Carolina, South Carolina, Tennessee, Texas and Utah
 - 9 states are in our Moderately High concern category: Iowa, Louisiana, Missouri, New Mexico, Ohio, Oklahoma, Oregon, Washington and Wisconsin
 - 20 states are in the Low concern category: Colorado, Connecticut, Hawaii, Illinois, Indiana, Kentucky, Maine, Maryland, Massachusetts, Michigan, Montana, New Hampshire, New Jersey, New York, North Dakota, Pennsylvania, Rhode Island, Vermont, West Virginia and Wyoming
 - All other states are in our Moderate concern category

New Daily Infections / 1 Million

County-Level View As of July 2 Trailing 7-Day Moving Average

Observations:

- Map clearly illustrates the concentration of new infections in the southeast and parts of the west



Map: Health Industry Advisor LLC • Created with Datawrapper

County-By-County Observing the Changes in New Infections Per Capita

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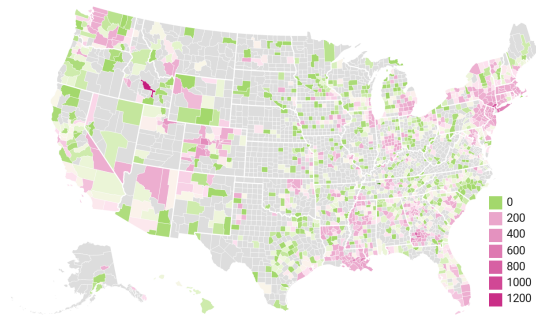
Observations:

- Sequence of maps illustrates first the spread of the virus across the United States
- Secondly, the shift in concentration of new infections from the northeast to the south

April 1

New Daily Infections / 1 Million

County-Level View As of April 1 Trailing 7-Day Moving Average

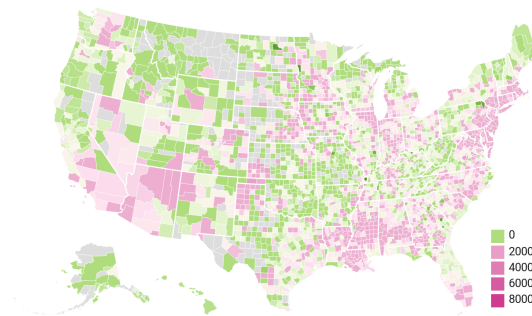


Map: Health Industry Advisor LLC • Created with Datawrapper

May 15

New Daily Infections / 1 Million

County-Level View As of May 15 Trailing 7-Day Moving Average

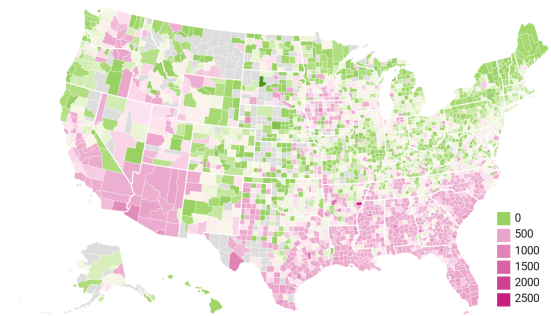


Map: Health Industry Advisor LLC • Created with Datawrapper

July 2

New Daily Infections / 1 Million

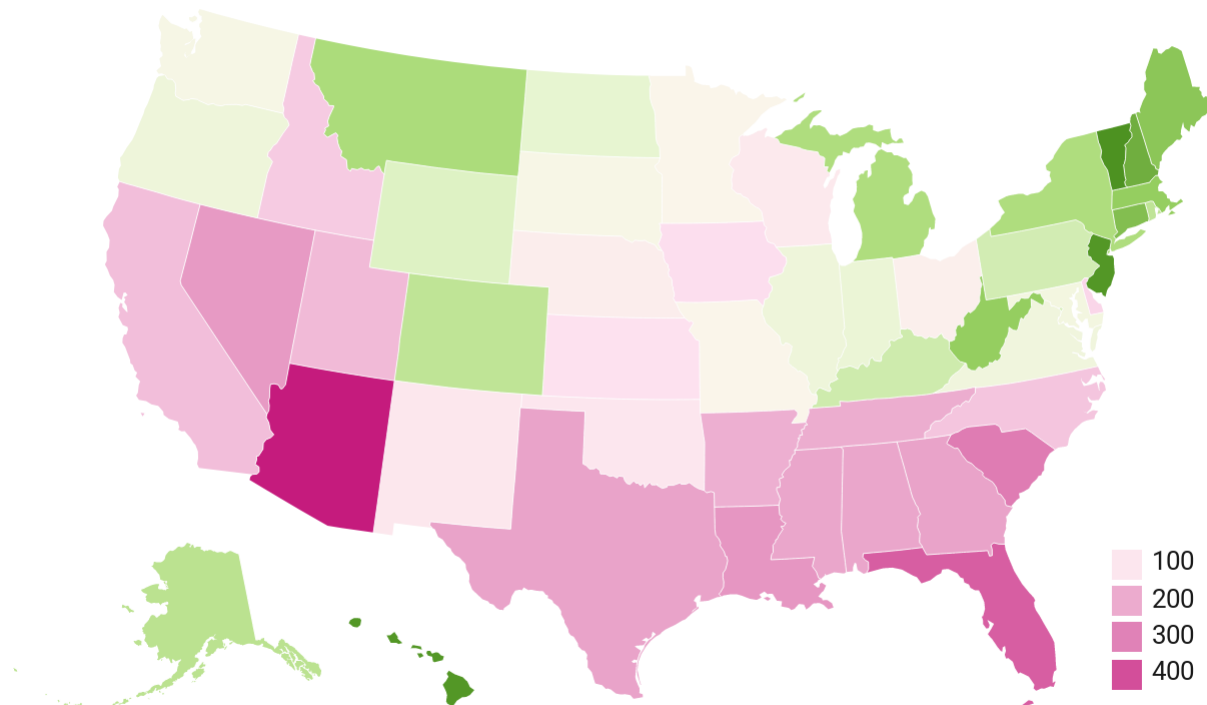
County-Level View As of July 2 Trailing 7-Day Moving Average



Map: Health Industry Advisor LLC • Created with Datawrapper

New Daily Infections / 1 Million

7-Day Trailing Moving Average As of July 3

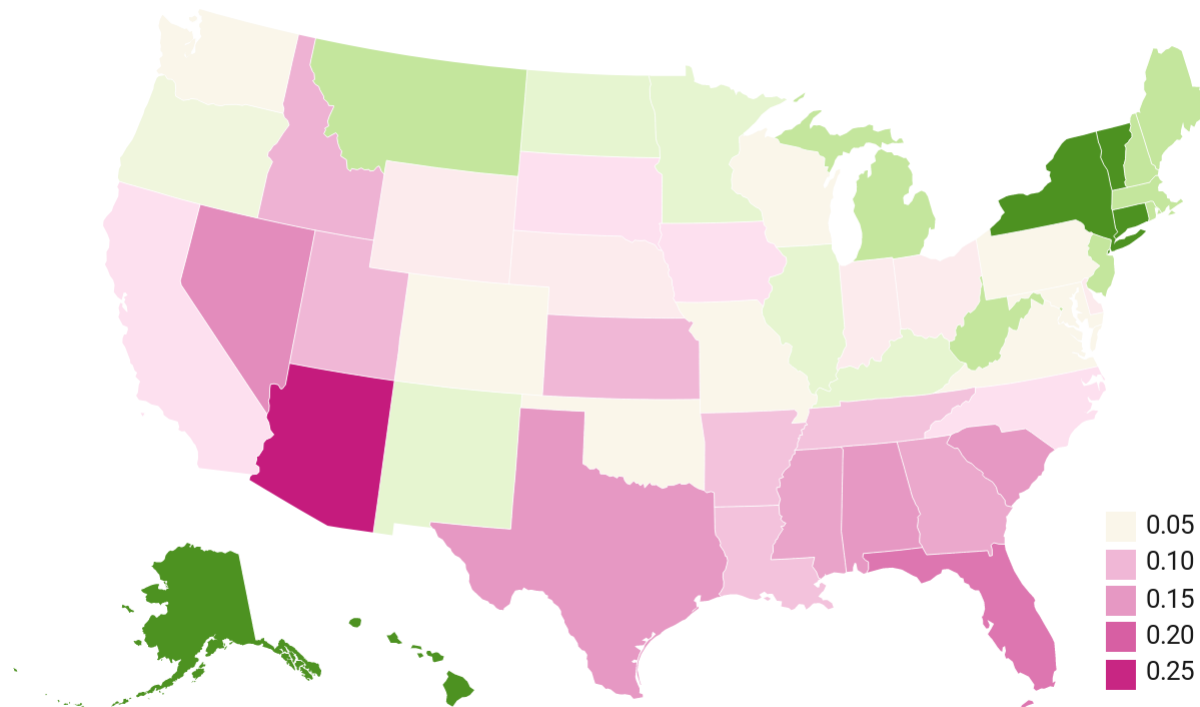


Map: Health Industry Advisor LLC • Created with Datawrapper

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Test-Positive Rate

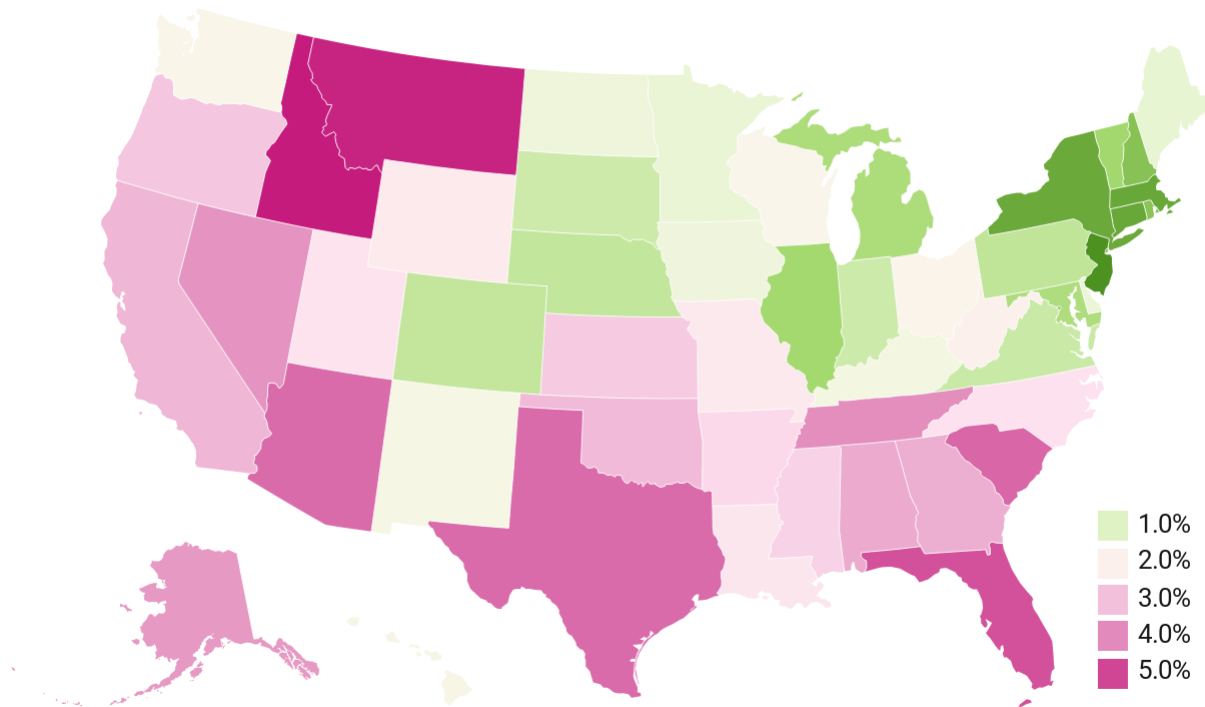
Trailing 7-Day Moving Average As of July 3



Map: Health Industry Advisor LLC • Created with Datawrapper

Daily Increase In Cases (%)

Trailing 5-Day Moving Average As of July 3



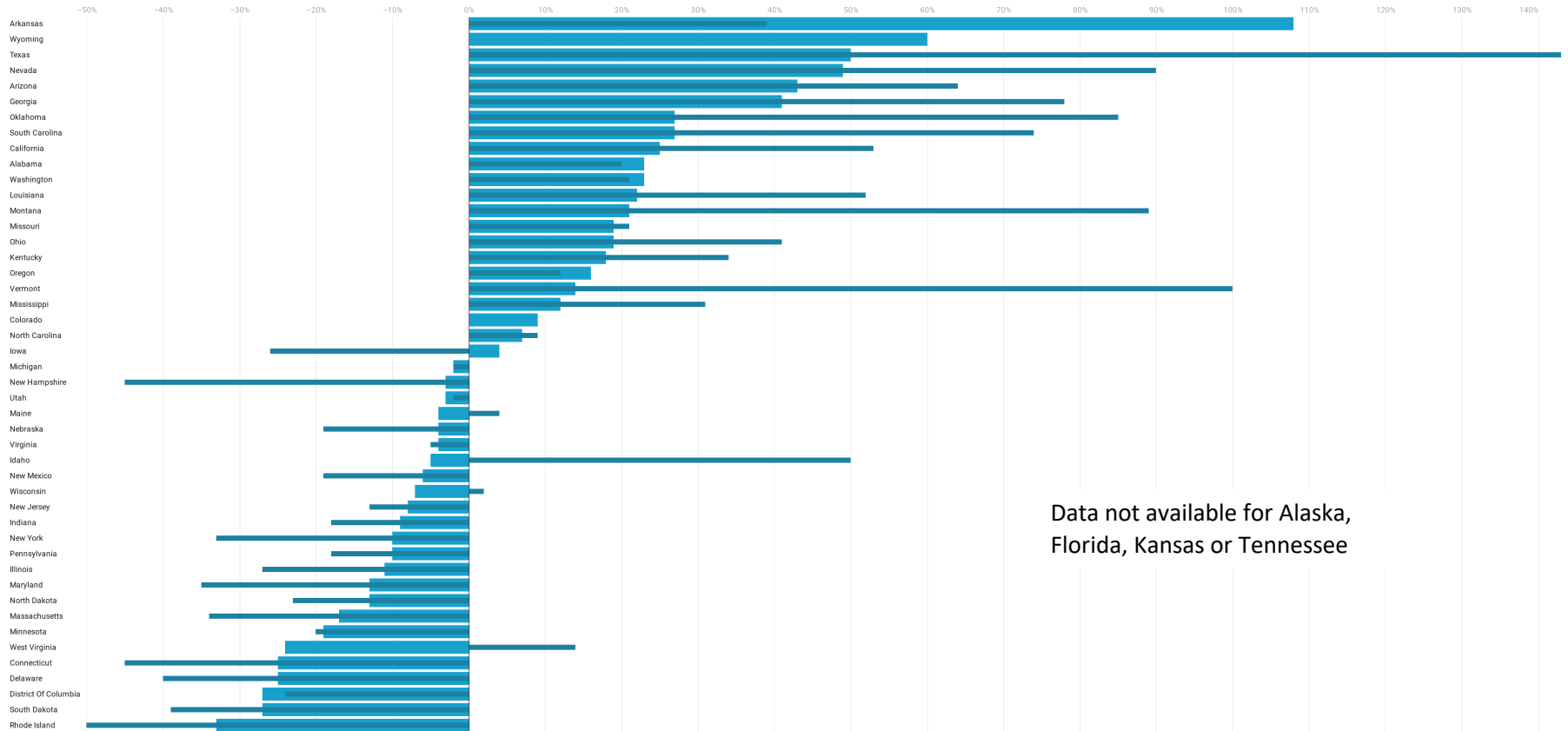
Map: Health Industry Advisor LLC • Created with Datawrapper

State-By-State Changes in Hospitalized Patients Last Week & 2 Weeks

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% Change In COVID-19 Hospitalizations

■ Week-over-Week Change in Hospitalizations ■ 14-Day Change in Hospitalizations



Data not available for Alaska,
Florida, Kansas or Tennessee

Chart: Health Industry Advisor LLC • Created with Datawrapper

Adjusting For Testing Rates – What is the Trend in New Cases?

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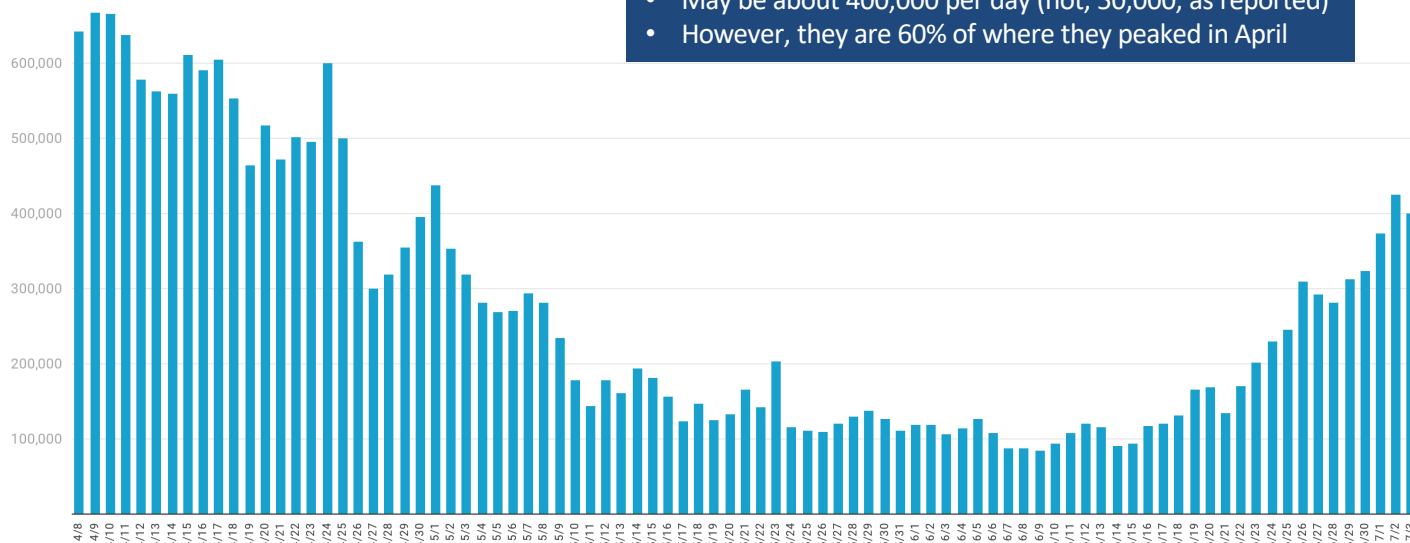
It is widely-accepted that actual infection rates, especially early in the crisis, were significantly under counted because of limited testing capabilities. Even now, health policy experts are suggesting the the true infections are 10x higher than what has been identified via testing. In a recently-published Bloomberg Opinion, John Fox proposes a methodology to estimate actual new infections, using the trailing 7-day test positive rate:

$$\text{estimated daily infections} = \text{reported infections} \times (\text{test-positive rate} \times 100)$$

This estimate closely matches the experts’ current estimate of actual infections. We applied Mr. Fox’ methodology to illustrate the estimated new cases over time.

An Estimate of Actual New Daily Cases

Based on an adjustment for test-positive rates



- Estimated new cases are still rising
- May be about 400,000 per day (not, 50,000, as reported)
- However, they are 60% of where they peaked in April

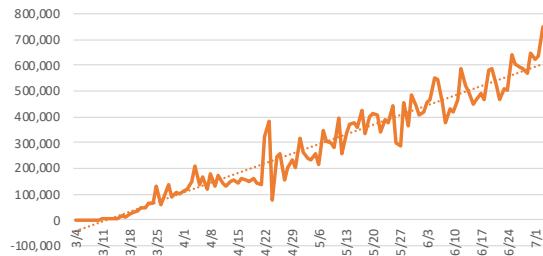
Based on an article by: Justin Fox "This Coronavirus Wave Isn't Like the Old Wave", Bloomberg Opinion, July 1, 2020
Chart: Health Industry Advisor LLC, using John Fox's methodology • Created with Datawrapper

UNITED STATES & STATE-BY-STATE INFORMATION

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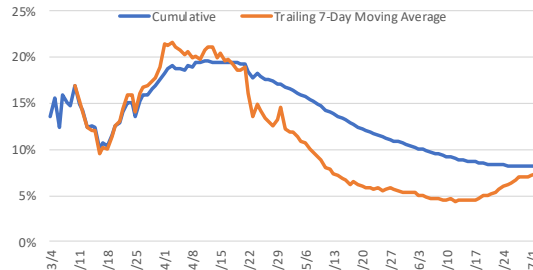
With significantly increased testing, the US is now meeting the WHO standard of <10% test-positives. This suggests that asymptomatic cases are being captured and that we have a better view of true infection rates. Further, new daily infections continue to decline; the death rate seems to have stabilized.

New Daily Tests - US



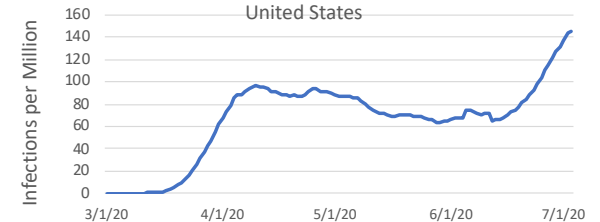
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Test-Positive Rate



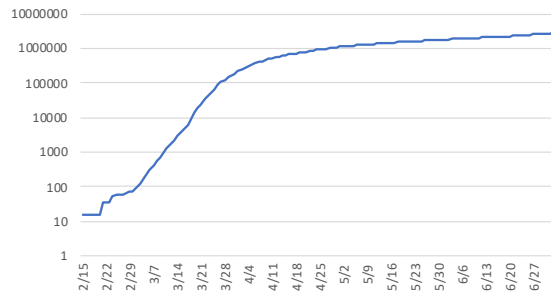
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New Daily Infections Per 1M
Trailing 7-Day Moving Average
United States



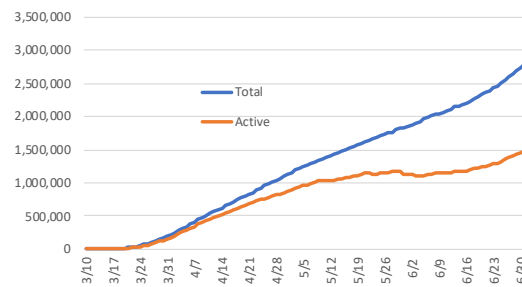
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Total Cases Log Scale - US



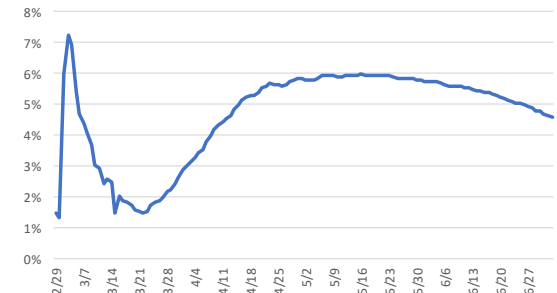
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Cases - US



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Deaths Per Case - US



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STATE-BY-STATE OVERALL ASSESSMENT SCORECARD

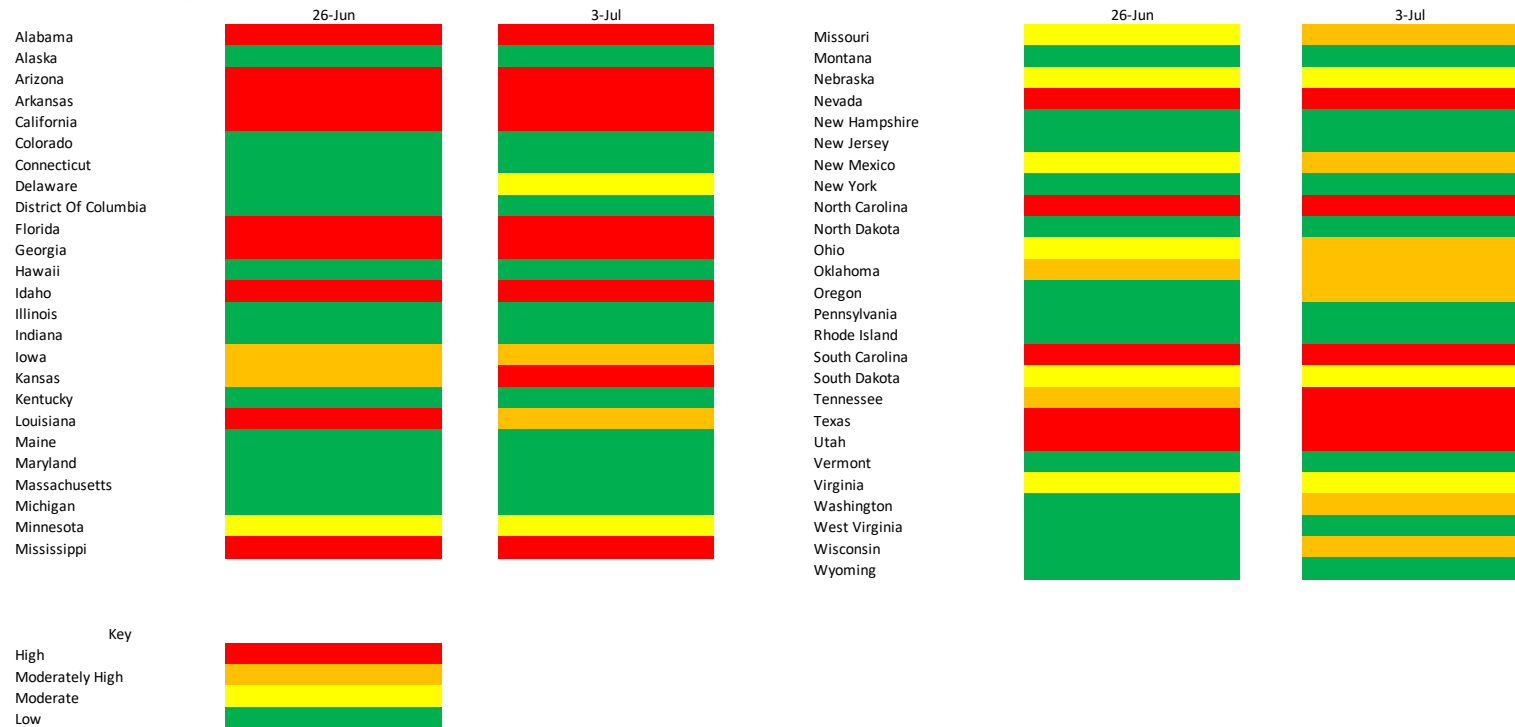
State-By-State Overall Assessment Scorecard

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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

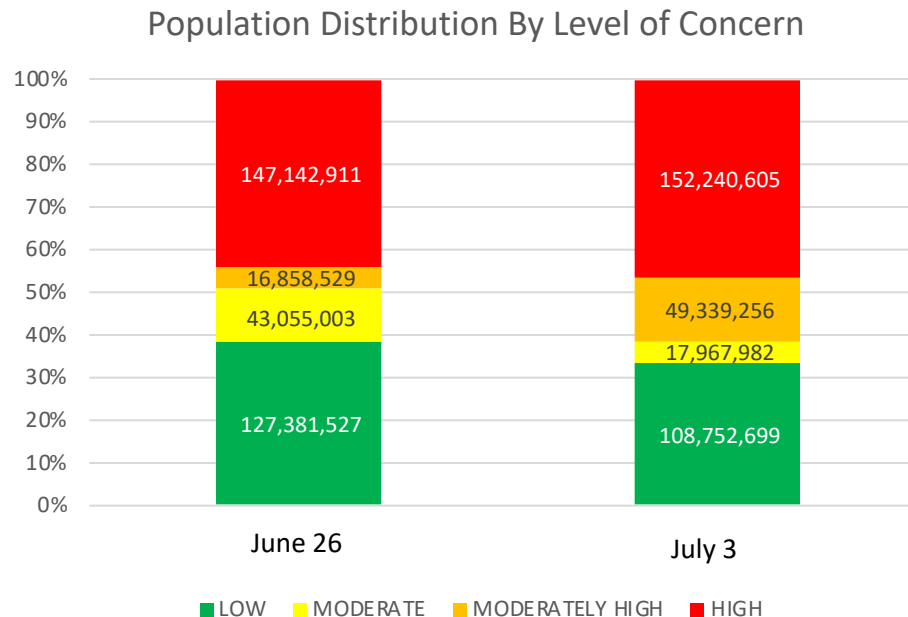
We combined these criteria into a single score, reflective of our relative degree of concern of each state's current status (High, Moderately High, Moderate, Low)



State-By-State Data

Population Distribution By Level of Concern

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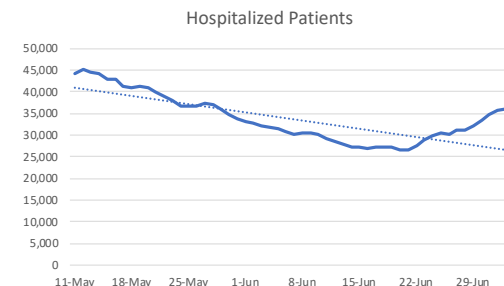
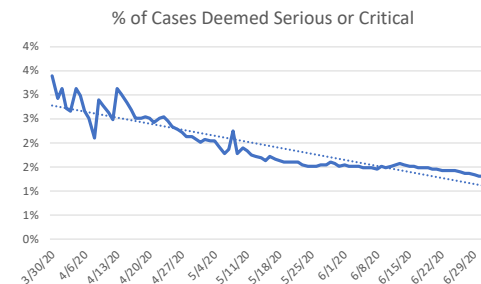
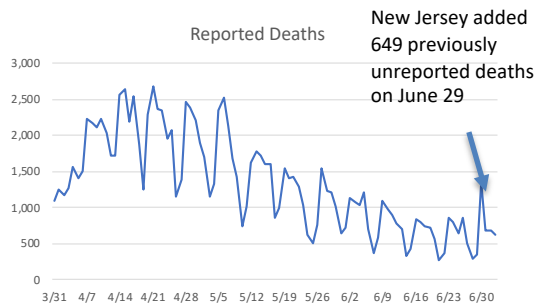
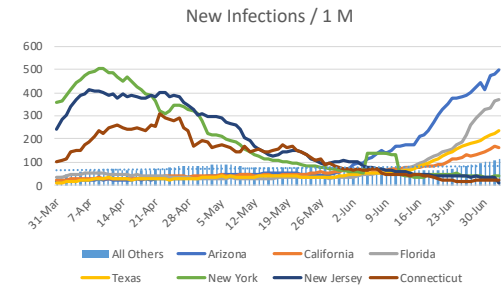
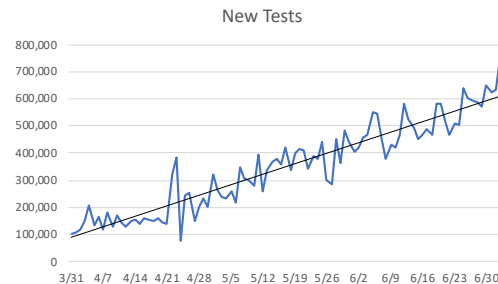
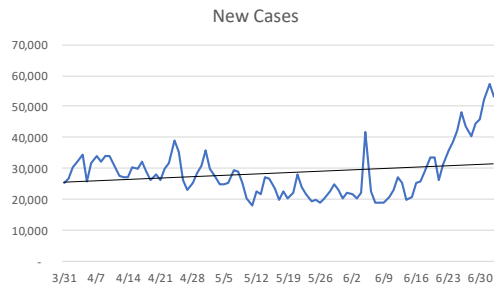
ANALYZING TRENDS IN THE CONCENTRATION & SEVERITY OF THE VIRUS

Tracking The Recent Surge In Cases

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Observations:

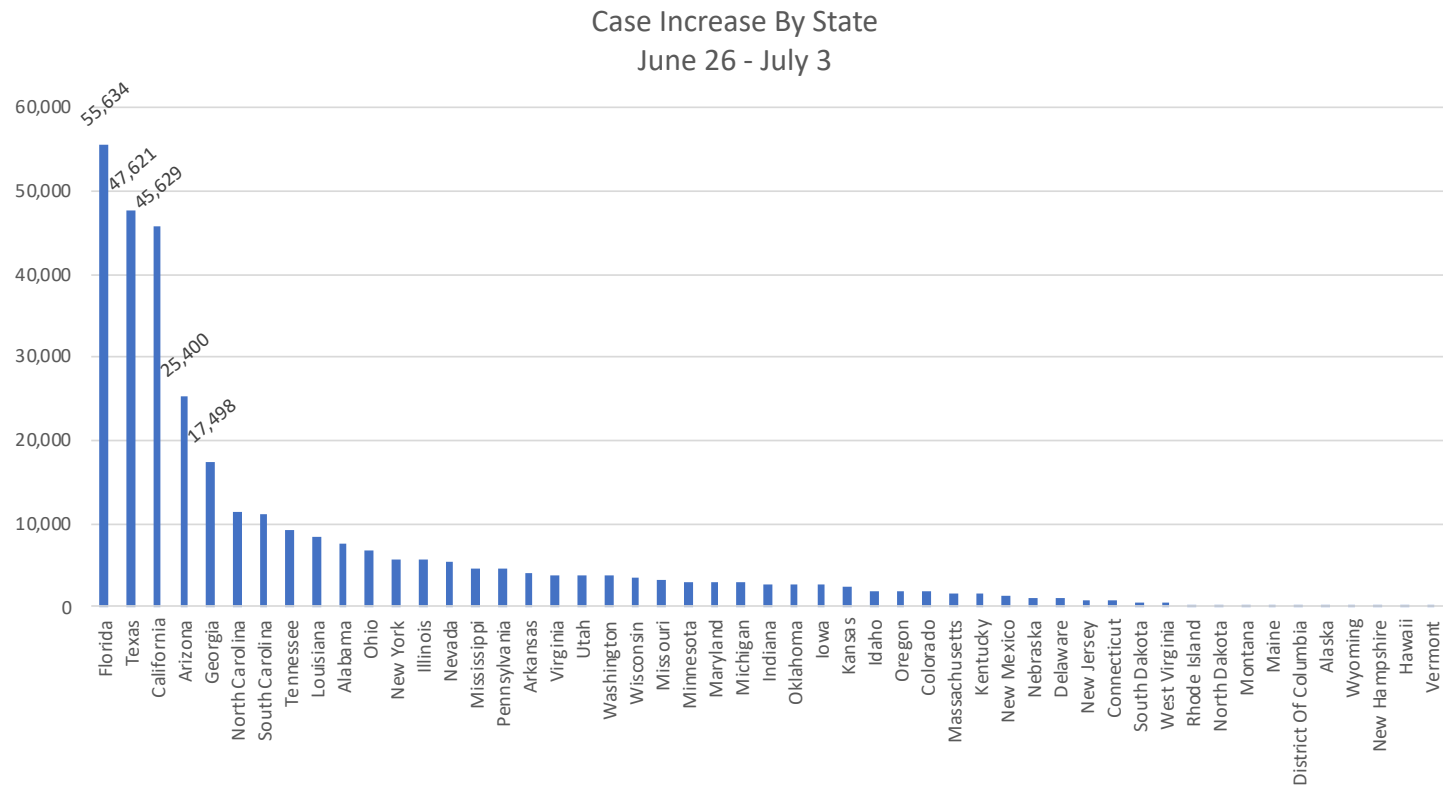
- After steadily declining during April and May, new cases clearly began to rise sharply on June 9
- Although testing has steadily increased, this cannot explain the rise in new cases
The concentrated rise in new infections per capita recently in Arizona, California, Florida and Texas mirrors the concentrated 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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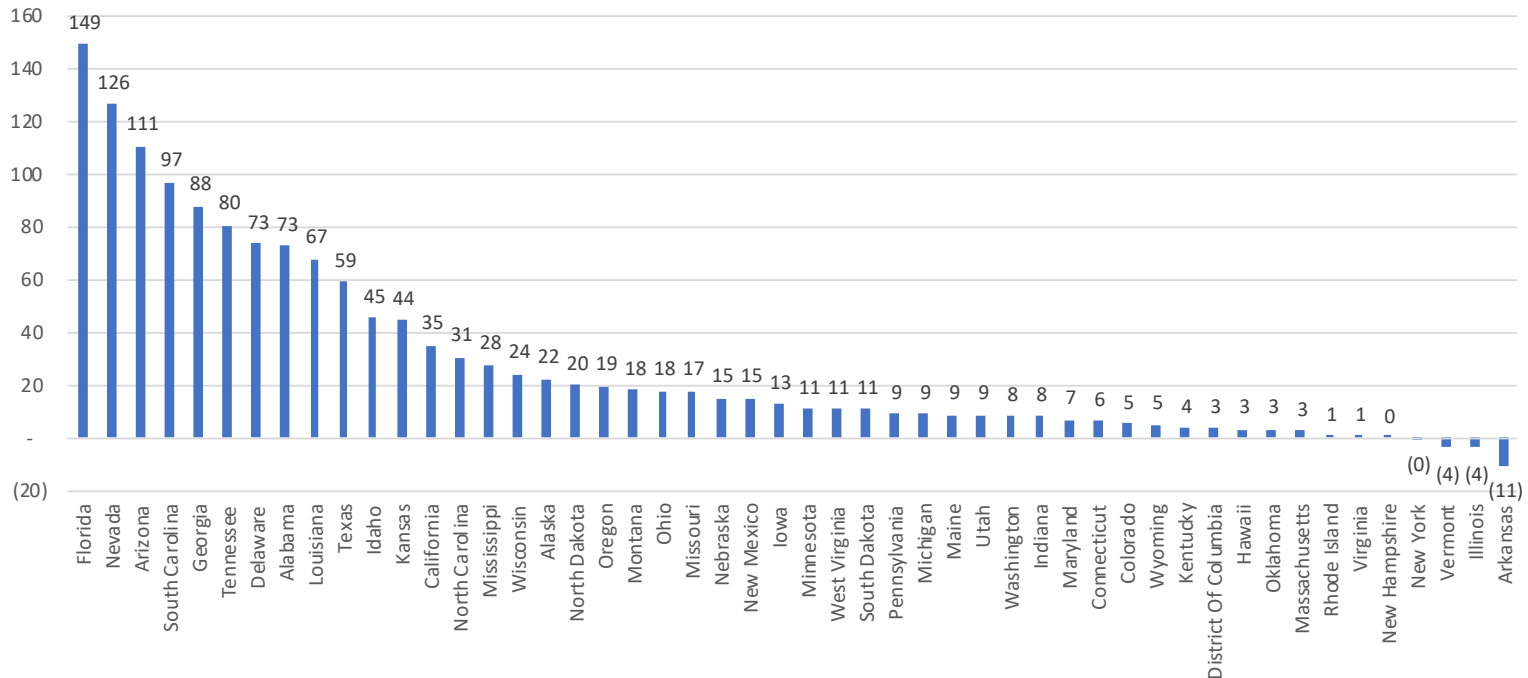
Case Growth in the U.S. Has Been Concentrated in A Few States



Change In New Infections / 1 Million

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Change in New Infection Rate / 1 Million
June 26 - July 3

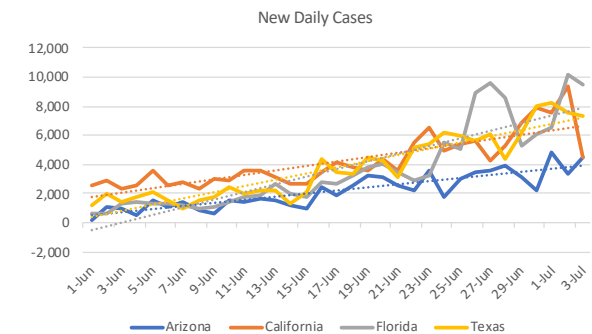
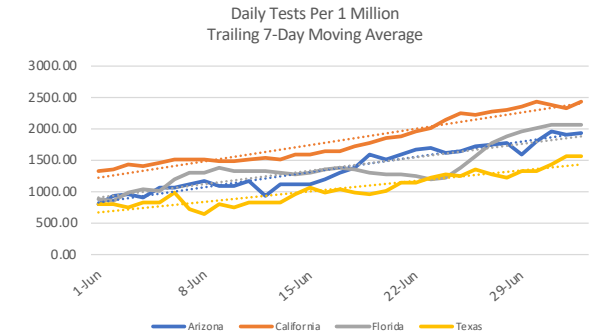
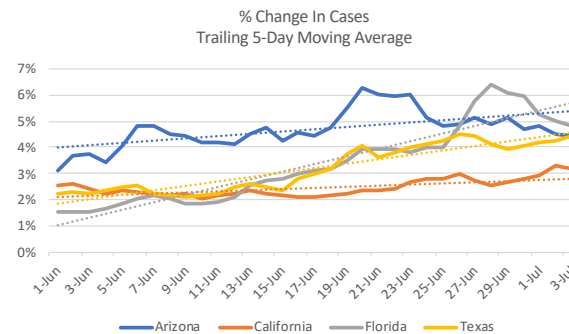
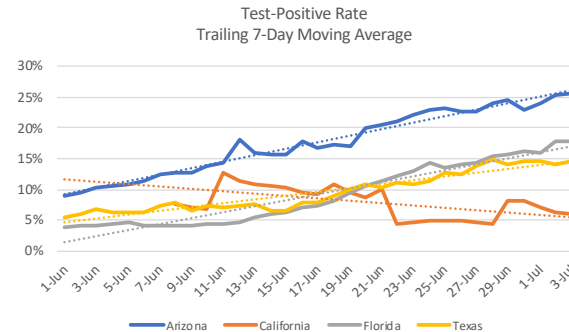


Tracking Testing Rates and Cases Arizona, California, Florida and Texas

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Observations:

- Arizona, Florida and Texas continue to show high and increasing test-positive rates; California 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 now in Florida; stabilizing in California and Texas



"Strategic Guidance in an Era of Unprecedented Change"

As of July 3

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	41,865	(20)	8,538.3	(15)	1,006	(24)	2.4%	(32)	205.2	(24)	3.4%	(10)	1,524	(30)	201.2	(9)
Alaska	1,063	(50)	1,453.1	(49)	15	(51)	1.4%	(44)	20.5	(50)	3.8%	(9)	3,596	(1)	39.3	(41)
Arizona	91,858	(9)	12,620.1	(8)	1,788	(17)	1.9%	(40)	245.6	(20)	4.4%	(6)	1,934	(19)	478.8	(1)
Arkansas	22,622	(30)	7,496.1	(21)	281	(39)	1.2%	(50)	93.1	(39)	2.7%	(17)	2,549	(8)	190.0	(10)
California	252,252	(2)	6,384.2	(31)	6,314	(6)	2.5%	(31)	159.8	(29)	3.1%	(12)	2,447	(10)	169.0	(13)
Colorado	33,612	(24)	5,836.7	(33)	1,701	(18)	5.1%	(13)	295.4	(15)	0.8%	(38)	936	(48)	46.5	(38)
Connecticut	46,717	(19)	13,103.3	(7)	4,335	(8)	9.3%	(1)	1,215.9	(3)	0.2%	(49)	3,318	(2)	26.1	(48)
Delaware	11,923	(38)	12,244.2	(9)	512	(33)	4.3%	(18)	525.8	(12)	1.2%	(32)	2,383	(11)	110.2	(17)
District Of Columbia	10,435	(39)	14,785.7	(5)	555	(31)	5.3%	(10)	786.4	(6)	0.4%	(47)	2,973	(5)	46.8	(36)
Florida	178,594	(4)	8,315.3	(17)	3,686	(9)	2.1%	(36)	171.6	(27)	4.8%	(3)	2,078	(17)	366.4	(2)
Georgia	90,493	(10)	8,523.1	(16)	2,856	(13)	3.2%	(24)	269.0	(17)	3.2%	(11)	1,752	(23)	223.5	(7)
Hawaii	975	(51)	688.6	(51)	19	(50)	1.9%	(39)	13.4	(51)	1.6%	(27)	869	(49)	9.6	(50)
Idaho	6,994	(41)	3,902.8	(40)	93	(45)	1.3%	(47)	51.9	(46)	5.6%	(1)	1,302	(42)	137.8	(15)
Illinois	146,872	(6)	11,590.4	(10)	7,215	(4)	4.9%	(14)	569.4	(9)	0.6%	(43)	2,365	(12)	73.3	(26)
Indiana	46,915	(18)	6,968.7	(26)	2,681	(14)	5.7%	(8)	398.2	(13)	0.9%	(36)	1,067	(45)	58.0	(32)
Iowa	30,434	(25)	9,646.1	(14)	721	(28)	2.4%	(33)	228.5	(22)	1.3%	(30)	1,712	(26)	132.0	(16)
Kansas	16,005	(35)	5,493.7	(34)	282	(38)	1.8%	(42)	96.8	(38)	2.9%	(15)	1,162	(43)	100.0	(18)
Kentucky	16,376	(34)	3,665.4	(43)	585	(30)	3.6%	(23)	130.9	(34)	1.5%	(29)	1,435	(34)	46.7	(37)
Louisiana	63,289	(15)	13,614.1	(6)	3,283	(10)	5.2%	(12)	706.2	(7)	2.4%	(20)	3,262	(3)	247.9	(4)
Maine	3,373	(45)	2,509.3	(45)	105	(42)	3.1%	(25)	78.1	(43)	1.1%	(34)	1,445	(33)	27.4	(47)
Maryland	68,961	(13)	11,406.7	(11)	3,223	(11)	4.7%	(15)	533.1	(10)	0.6%	(41)	1,357	(37)	62.5	(30)
Massachusetts	109,628	(7)	15,774.9	(4)	8,149	(3)	7.4%	(5)	1,172.6	(4)	0.2%	(50)	1,309	(39)	30.9	(45)
Michigan	72,175	(11)	7,227.0	(24)	6,215	(7)	8.6%	(3)	622.3	(8)	0.6%	(42)	1,810	(22)	38.5	(42)
Minnesota	37,624	(22)	6,671.4	(29)	1,503	(19)	4.0%	(20)	266.5	(18)	1.1%	(33)	2,226	(15)	78.2	(23)
Mississippi	29,684	(27)	9,974.0	(13)	1,103	(22)	3.7%	(22)	370.6	(14)	2.8%	(16)	1,303	(40)	204.2	(8)

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

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As of July 3

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Missouri	23,717	(29)	3,864.3	(41)	1,071	(23)	4.5%	(17)	174.5	(26)	2.3%	(21)	1,311	(38)	73.3	(25)
Montana	1,128	(49)	1,055.4	(50)	23	(48)	2.0%	(37)	21.5	(49)	5.5%	(2)	2,318	(13)	37.4	(43)
Nebraska	19,660	(32)	10,163.3	(12)	284	(37)	1.4%	(43)	146.8	(31)	0.8%	(39)	1,413	(35)	81.7	(22)
Nevada	20,718	(31)	6,726.3	(28)	528	(32)	2.5%	(30)	171.4	(28)	3.8%	(8)	1,624	(27)	226.1	(6)
New Hampshire	5,857	(43)	4,307.5	(39)	376	(36)	6.4%	(7)	276.5	(16)	0.4%	(46)	779	(51)	19.3	(49)
New Jersey	176,455	(5)	19,866.2	(2)	15,270	(2)	8.7%	(2)	1,719.2	(1)	0.0%	(51)	2,233	(14)	37.1	(44)
New Mexico	12,776	(37)	6,093.0	(32)	511	(34)	4.0%	(19)	243.7	(21)	1.6%	(28)	2,859	(6)	90.5	(20)
New York	420,774	(1)	21,629.7	(1)	32,191	(1)	7.7%	(4)	1,654.8	(2)	0.2%	(48)	3,133	(4)	39.4	(40)
North Carolina	70,562	(12)	6,727.8	(27)	1,420	(20)	2.0%	(38)	135.4	(33)	2.6%	(18)	2,214	(16)	151.5	(14)
North Dakota	3,722	(44)	4,884.1	(36)	80	(46)	2.1%	(35)	105.0	(36)	1.3%	(31)	1,816	(21)	49.5	(34)
Ohio	55,763	(16)	4,770.5	(37)	2,932	(12)	5.3%	(11)	250.8	(19)	1.8%	(24)	1,303	(41)	74.4	(24)
Oklahoma	15,065	(36)	3,807.2	(42)	398	(35)	2.6%	(28)	100.6	(37)	3.1%	(13)	1,916	(20)	93.5	(19)
Oregon	9,636	(40)	2,284.6	(46)	209	(40)	2.2%	(34)	49.6	(47)	2.9%	(14)	1,158	(44)	58.5	(31)
Pennsylvania	93,418	(8)	7,297.1	(23)	6,797	(5)	7.3%	(6)	530.9	(11)	0.8%	(40)	949	(47)	48.7	(35)
Rhode Island	16,991	(33)	16,038.9	(3)	960	(25)	5.7%	(9)	906.2	(5)	0.4%	(45)	2,757	(7)	40.6	(39)
South Carolina	41,532	(21)	8,066.5	(18)	793	(27)	1.9%	(41)	154.0	(30)	4.5%	(4)	2,063	(18)	296.3	(3)
South Dakota	6,978	(42)	7,887.8	(19)	97	(43)	1.4%	(45)	109.6	(35)	0.9%	(35)	965	(46)	66.9	(28)
Tennessee	48,712	(17)	7,128.8	(25)	633	(29)	1.3%	(48)	92.6	(40)	3.9%	(7)	2,518	(9)	185.1	(11)
Texas	190,387	(3)	6,566.0	(30)	2,621	(15)	1.4%	(46)	90.4	(41)	4.4%	(5)	1,560	(28)	226.1	(5)
Utah	23,866	(28)	7,444.3	(22)	181	(41)	0.8%	(51)	56.5	(44)	2.5%	(19)	1,741	(24)	173.6	(12)
Vermont	1,236	(48)	1,980.8	(47)	56	(47)	4.5%	(16)	89.7	(42)	0.6%	(44)	1,558	(29)	8.2	(51)
Virginia	64,393	(14)	7,544.1	(20)	1,845	(16)	2.9%	(27)	216.2	(23)	0.8%	(37)	1,371	(36)	63.4	(29)
Washington	35,641	(23)	4,680.4	(38)	1,352	(21)	3.8%	(21)	177.5	(25)	1.7%	(26)	1,486	(32)	71.4	(27)
West Virginia	3,126	(46)	1,749.2	(48)	93	(45)	3.0%	(26)	52.0	(45)	2.0%	(23)	1,498	(31)	28.7	(46)
Wisconsin	30,317	(26)	5,206.9	(35)	796	(26)	2.6%	(29)	136.7	(32)	1.8%	(25)	1,721	(25)	86.1	(21)
Wyoming	1,582	(47)	2,733.4	(44)	20	(49)	1.3%	(49)	34.6	(48)	2.2%	(22)	864	(50)	55.3	(33)
United States	2,890,588		8,732.8		132,101		4.6%		399.1		1.9%		1,899		145.7	

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 83.0% of all cases worldwide.

		Total Cases						
Rank	Country	3-Jul	Rank	Country	6-May	Rank	Country	27-Apr
1	USA	2,890,588	1	USA	1,263,092	1	USA	1,010,356
2	Brazil	1,543,341	2	Spain	253,682	2	Spain	229,422
3	Russia	667,883	3	Italy	214,457	3	Italy	199,414
4	India	649,889	4	UK	201,101	4	France	128,339
5	Spain	297,625	5	France	174,191	5	Germany	158,758
6	Peru	295,599	6	Germany	168,162	6	UK	157,149
7	Chile	288,089	7	Russia	165,929	7	Turkey	112,261
8	UK	284,276	8	Turkey	131,744	8	Iran	91,472
9	Italy	241,184	9	Brazil	126,611	9	Russia	87,147
10	Mexico	238,511	10	Iran	101,650	10	China	82,830
11	Iran	235,429	11	China	82,883	11	Brazil	66,501
12	Pakistan	221,896	12	Canada	63,496	12	Canada	48,500
13	Turkey	203,456	13	Peru	54,817	13	Belgium	46,687
14	Saudi Arabia	201,801	14	India	52,987	14	Netherlands	38,245
15	Germany	197,000	15	Belgium	50,781	15	India	29,451
17	France	166,960	16	Netherlands	41,319	16	Switzerland	29,164
20	Canada	105,091	17	Saudi Arabia	31,938	17	Peru	28,669
22	China	83,542	18	Switzerland	30,060	18	Portugal	24,070
25	Sweden	71,419	19	Ecuador	29,420	19	Ecuador	23,240
27	Belgium	61,727	20	Portugal	26,182	20	Ireland	19,648
29	Ecuador	60,657	21	Mexico	26,025	21	Sweden	18,926
31	Netherlands	50,335	22	Sweden	23,918	22	Saudi Arabia	18,811
35	Singapore	44,479	23	Pakistan	23,214	23	Israel	15,555
38	Portugal	43,156	24	Chile	23,048	24	Austria	15,274
45	Switzerland	32,101	25	Ireland	22,248	25	Mexico	14,677
48	Israel	28,055	26	Singapore	20,198	26	Singapore	14,423
51	Ireland	25,498	29	Israel	16,310	27	Pakistan	13,915
56	Japan	19,068	31	Austria	15,684	28	Chile	13,813
57	Austria	18,050	32	Japan	15,253	29	Japan	13,614
63	S. Korea	12,967	38	S. Korea	10,806	35	South Korea	10,738
	Others	1,902,904		Others	356,176		Others	301,446
	World	11,182,576			3,817,382		World	3,062,515

Country-by-Country Comparative Statistics

"Strategic Guidance in an Era of Unprecedented Change"

Top 30 Countries By Total Cases
As of July 3

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	2,890,588	(1)	8,732	(4)	132,101	(1)	4.6%	(14)	399.1	(7)	1.9%	(14)	2,132	(2)	145.7	(4)
Brazil	1,543,341	(2)	7,260	(5)	63,254	(2)	4.1%	(16)	297.6	(10)	2.8%	(6)	290	(19)	176.9	(3)
Russia	667,883	(3)	4,577	(11)	9,859	(11)	1.5%	(26)	67.6	(17)	1.0%	(19)	2,005	(3)	46.1	(13)
India	649,889	(4)	471	(28)	18,669	(8)	2.9%	(20)	13.5	(27)	3.4%	(5)	157	(22)	14.5	(20)
Spain	297,625	(5)	6,366	(8)	28,385	(7)	9.5%	(6)	607.1	(3)	0.1%	(27)	874	(10)	8.1	(24)
Peru	295,599	(6)	8,965	(3)	10,226	(10)	3.5%	(18)	310.1	(9)	1.1%	(17)	589	(16)	100.7	(7)
Chile	288,089	(7)	15,070	(2)	6,051	(15)	2.1%	(22)	316.5	(8)	1.2%	(16)	770	(13)	184.8	(2)
UK	284,276	(8)	4,187	(12)	44,131	(3)	15.5%	(3)	650.0	(2)	-1.8%	(30)	2,542	(1)	(52.8)	(30)
Italy	241,184	(9)	3,989	(13)	34,833	(4)	14.4%	(4)	576.1	(4)	0.1%	(28)	851	(11)	2.9	(28)
Mexico	238,511	(10)	1,850	(22)	29,189	(6)	12.2%	(5)	226.4	(13)	2.3%	(9)	91	(26)	39.4	(14)
Iran	235,429	(11)	2,803	(16)	11,260	(9)	4.8%	(12)	134.1	(14)	1.1%	(18)	318	(18)	30.1	(16)
Pakistan	221,896	(12)	1,005	(25)	4,551	(20)	2.1%	(23)	20.6	(26)	1.8%	(15)	102	(25)	16.9	(18)
Turkey	203,456	(13)	2,412	(19)	5,186	(17)	2.5%	(21)	61.5	(18)	0.6%	(21)	590	(15)	15.2	(19)
Saudi Arabia	201,801	(14)	5,796	(9)	1,802	(27)	0.9%	(28)	51.8	(20)	2.0%	(11)	1,196	(6)	111.7	(6)
Germany	197,000	(15)	2,351	(20)	9,073	(13)	4.6%	(13)	108.3	(15)	0.2%	(25)	785	(12)	4.4	(27)
South Africa	177,124	(16)	2,986	(15)	2,952	(24)	1.7%	(25)	49.8	(21)	5.1%	(1)	606	(14)	126.5	(5)
France	166,960	(17)	2,558	(18)	29,893	(5)	17.9%	(1)	458.0	(6)	0.5%	(23)	0	(29)	8.8	(22)
Bangladesh	156,391	(18)	950	(26)	1,968	(26)	1.3%	(27)	11.9	(28)	2.6%	(7)	104	(24)	22.5	(17)
Colombia	109,505	(19)	2,152	(21)	3,777	(21)	3.4%	(19)	74.2	(16)	3.6%	(4)	364	(17)	70.4	(9)
Canada	105,091	(20)	2,784	(17)	8,663	(14)	8.2%	(7)	229.5	(12)	0.4%	(24)	1,086	(8)	8.7	(23)
Qatar	98,653	(21)	35,135	(1)	121	(30)	0.1%	(30)	43.1	(23)	0.9%	(20)	1,531	(5)	298.6	(1)
China	83,542	(22)	58	(30)	4,634	(19)	5.5%	(10)	3.2	(30)	0.0%	(29)	0	(28)	0.0	(29)
Argentina	72,786	(23)	1,610	(23)	1,437	(28)	2.0%	(24)	31.8	(24)	4.0%	(3)	198	(21)	55.1	(10)
Egypt	72,711	(24)	711	(27)	3,201	(22)	4.4%	(15)	31.3	(25)	2.2%	(10)	0	(29)	13.9	(21)
Sweden	71,419	(25)	7,071	(6)	5,420	(16)	7.6%	(9)	536.6	(5)	1.9%	(13)	1,053	(9)	88.9	(8)
Belarus	62,997	(26)	6,667	(7)	412	(29)	0.7%	(29)	43.6	(22)	0.5%	(22)	1,578	(4)	34.5	(15)
Belgium	61,727	(27)	5,326	(10)	9,765	(12)	15.8%	(2)	842.5	(1)	0.1%	(26)	1,132	(7)	7.7	(25)
Indonesia	60,695	(28)	222	(29)	3,036	(23)	5.0%	(11)	11.1	(29)	2.4%	(8)	73	(27)	4.8	(26)
Ecuador	60,657	(29)	3,438	(14)	4,700	(18)	7.7%	(8)	266.4	(11)	1.9%	(12)	129	(23)	55.1	(11)
Iraq	56,020	(30)	1,393	(24)	2,262	(25)	4.0%	(17)	56.2	(19)	4.3%	(2)	280	(20)	52.7	(12)

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

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