

COVID-19 Dashboard

Issue # 98
Wednesday, July 8, 2020

"Strategic Guidance in an Era of Unprecedented Change"

Measure	Desired Change	Yesterday in the U.S.
Number of Tests	Increase	~846,000 – a new record; average of 675,000 for past 7 days
Test-Positivity Rate	Decline	6.1%; 7.7% for the past 7 days
Number of Cases	Plateau	56,251; Includes >2,000 cases from Thu-Sat for LA
Deaths % of Total Cases	Decline	4.33%
Number of Deaths / 1M Population	Plateau	404.7
Recoveries : Death	Increase	10.11

- The news media today will focus on the near-record number of new cases in the United States yesterday. Of course, the continued high number of cases is concerning. As has been our position since starting this report in March, however, context matters:
 - More than 2,000 of the "new" cases are from last week: Los Angeles county only added them to its count yesterday
 - Additionally, testing volume in the United States hit a new record yesterday - the 846,000 tests were 12.6% more than the prior record high. Yet, the test-positive rate fell to 6.1%, its lowest daily rate since June 22
- Frankly, the greater concern is with the number of deaths recorded yesterday - 993, the most on any day since early June (although more were recorded on June 29, these included ~650 from up to 3 months earlier; the adjusted total was less than recorded yesterday)
 - Still, the number of deaths recorded daily, which has been declining steadily since March, has not yet reversed this course; the rate of decline, however, may be slowing (please see graph in today's report)
- In today's report, we show the metro areas with the highest rates of new infections per capita:
 - Among large central metro areas, Miami-Dade is experiencing the highest rate; 5 of the top 7 are in Florida; and, 14 of the top 15 are in the south or Texas
 - Among large fringe metro areas, Macon, TN has the highest rate; the top 11 and 14 of the top 15 are in the southern states and California
 - Among medium metro area, Charleston, SC has the highest rate; at the top end, medium metro areas have higher infection rates than large central and large fringe metro areas
- The recent surge in new cases has largely been concentrated in Arizona, California, Florida and Texas. Keys to anticipating when this trend reverses are the daily % change in total cases and the test-positive rates:
 - Case growth (%) has been trending downward in Arizona since June 21; in Florida since June 28; and, in Texas beginning 4 days ago. It is still increasing in California, albeit at a relatively low rate
 - Unfortunately, test-positive rates are high and still increasing in Arizona and Florida; they are low and have been trending downward for a month in California; they appear to have stabilized over the past 10 days in Texas
- On an encouraging note, 9 states appear to have recently moved past their peak in new infection rates (new infections per day per 1 million, trailing 7-day moving average): Alabama (peak on July 5), Mississippi (July 4), Missouri (July 4), Nevada (July 3), North Carolina (July 3), Ohio (July 3), Tennessee (July 5), Utah (July 1) and Wyoming (June 30)
- Chile moved passed Spain in total cases yesterday and now ranks 6th in the world; total cases worldwide should top 12 million today

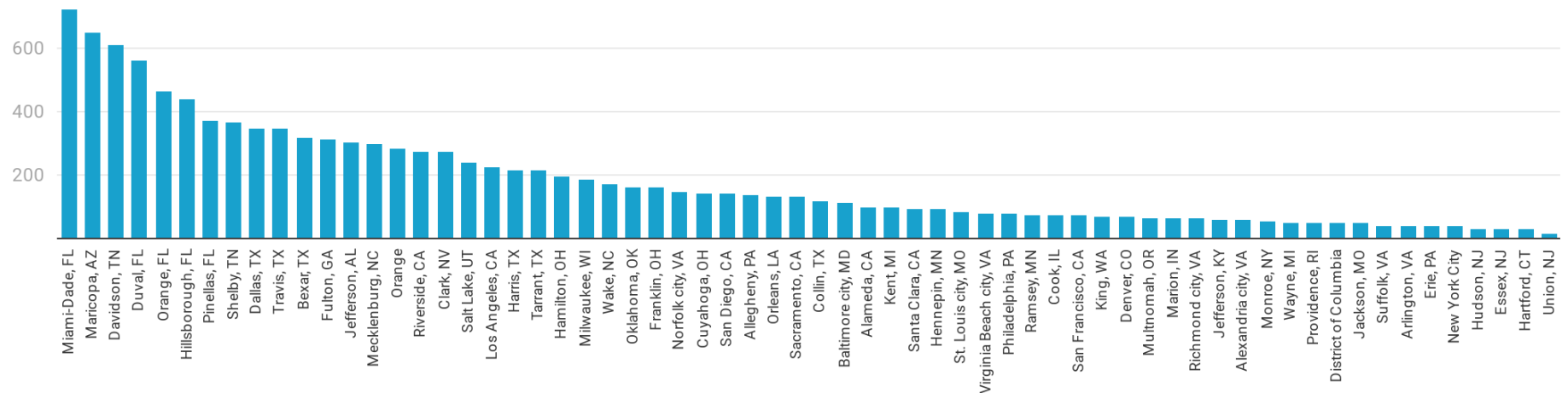
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Observation:

- Florida is home to 5 of the 7 large central metro areas with the highest rate of new infections
- 14 of the top 15 are in the southeast or Texas

New Infections / 1 Million Population

Large Central Metro Areas Trailing 7-Day Moving Average, As of July 6



Health Industry Advisor LLC analysis

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

New Infections Per Capita – Large Fringe Metro Areas

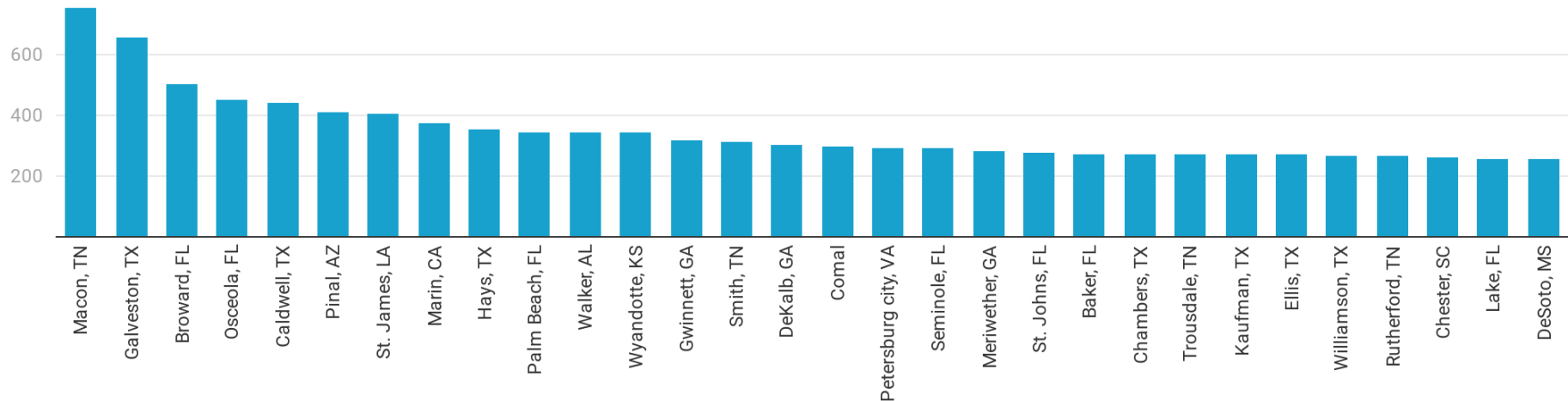
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Observation:

- Southern states and California are home to each of the 11 large fringe metro areas with the highest rate of new infections and 14 of the top 15

New Infections / 1 Million Population

Large Fringe Metro Areas Trailing 7-Day Moving Average, As of July 6



30 Areas with highest infection rate; Health Industry Advisor LLC analysis

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

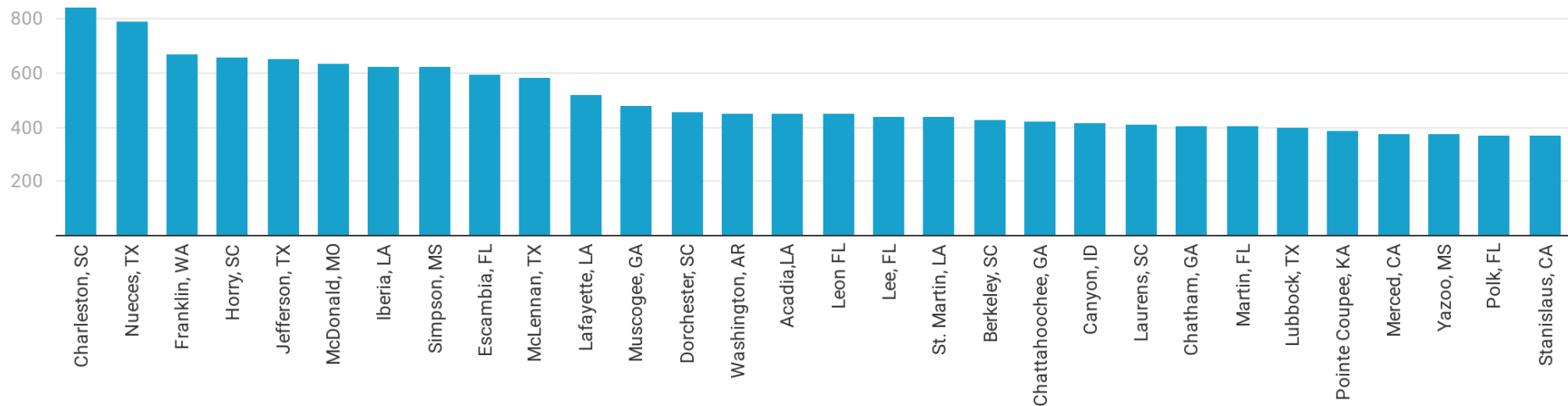
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Observation:

- Among areas with the highest infection rates, medium metro areas are experiencing higher rates than large central and large fringe metro areas

New Infections / 1 Million Population

Medium Metro Areas Trailing 7-Day Moving Average, As of July 6



30 Areas with highest infection rate; Health Industry Advisor LLC analysis

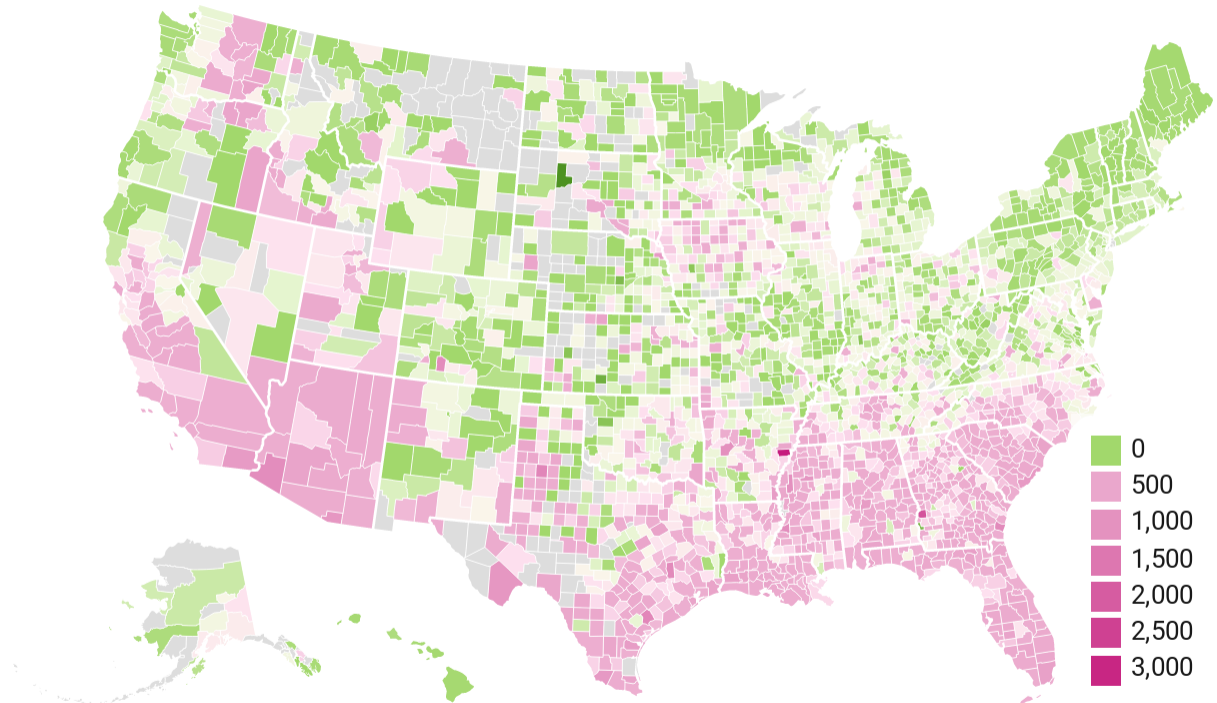
Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

New Daily Infections Per Million Population

Trailing 7-Day Moving Average, As of July 6

Observations:

- Infections rates are highest in counties across the southern United States
- Rates are lowest in the Northeast



Health Industry Advisor LLC analysis

Map: Health Industry Advisor LLC • Source: New York Times • Created with Datawrapper

Observations:

- With the now month-long surge in new cases, we are paying close attention to the number of deaths recorded with the virus
- These deaths have been steadily declining since March
- The recent surge in new cases has included a shift in the age demographic, to a younger population - and likely is a factor in the declining number of deaths
- It appears that the rate of decline in daily deaths may be slowing – yet, these still appear to be tending down

Deaths Recorded With Coronavirus in the U.S.

Trailing 7-Day Moving Average



Health Industry Advisor LLC analysis

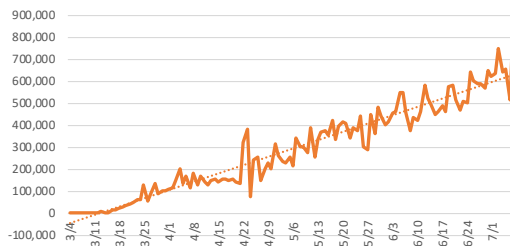
Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

UNITED STATES & STATE-BY-STATE INFORMATION

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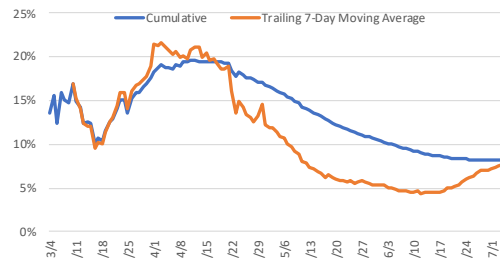
With significantly increased testing, the US is now meeting the WHO standard of <10% test-positives. This suggests that asymptomatic cases are being captured and that we have a better view of true infection rates. Further, new daily infections continue to decline; the death rate seems to have stabilized.

New Daily Tests - US



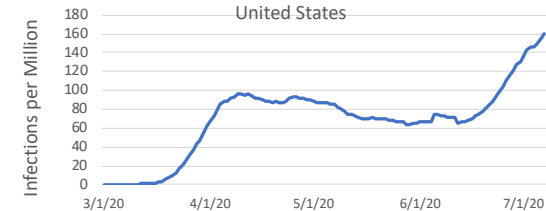
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Test-Positive Rate



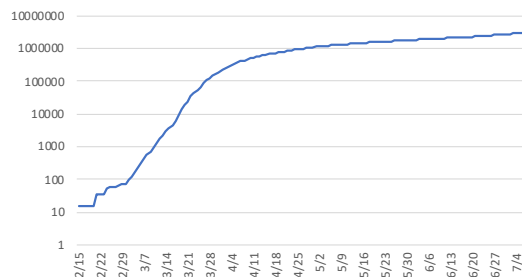
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New Daily Infections Per 1M
Trailing 7-Day Moving Average
United States



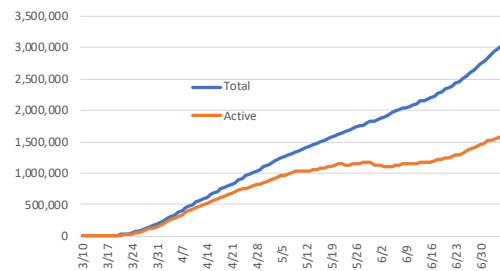
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Total Cases Log Scale - US



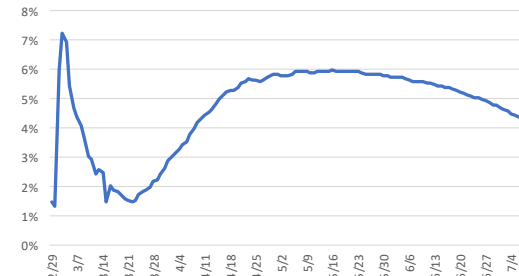
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Cases - US



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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

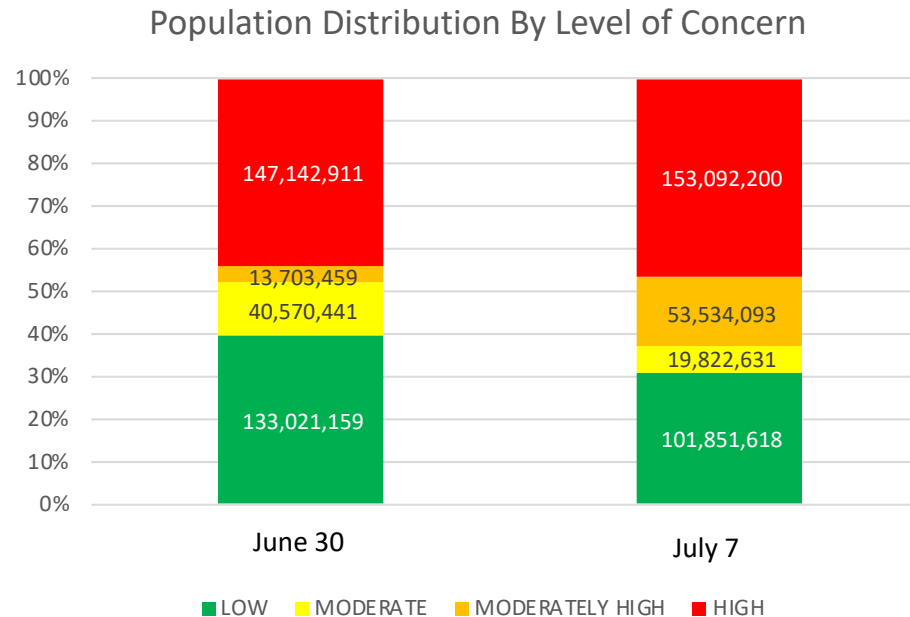
We combined these criteria into a single score, reflective of our relative degree of concern of each state's current status (High, Moderately High, Moderate, Low)



State-By-State Data

Population Distribution By Level of Concern

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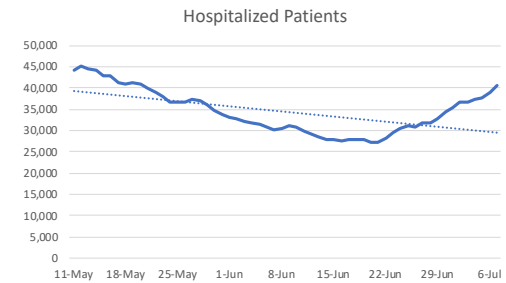
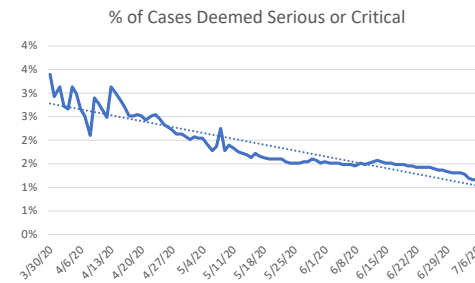
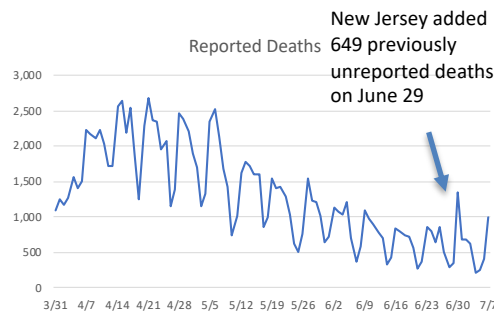
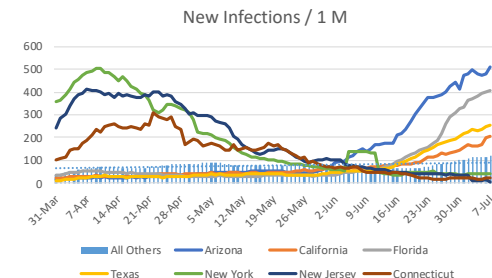
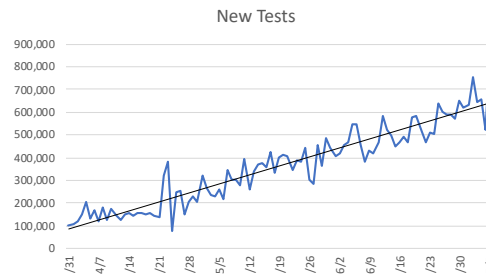
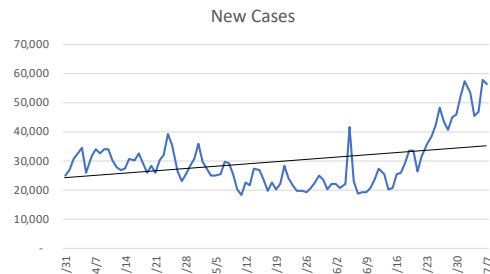
ANALYZING TRENDS IN THE CONCENTRATION & SEVERITY OF THE VIRUS

Tracking The Recent Surge In Cases

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Observations:

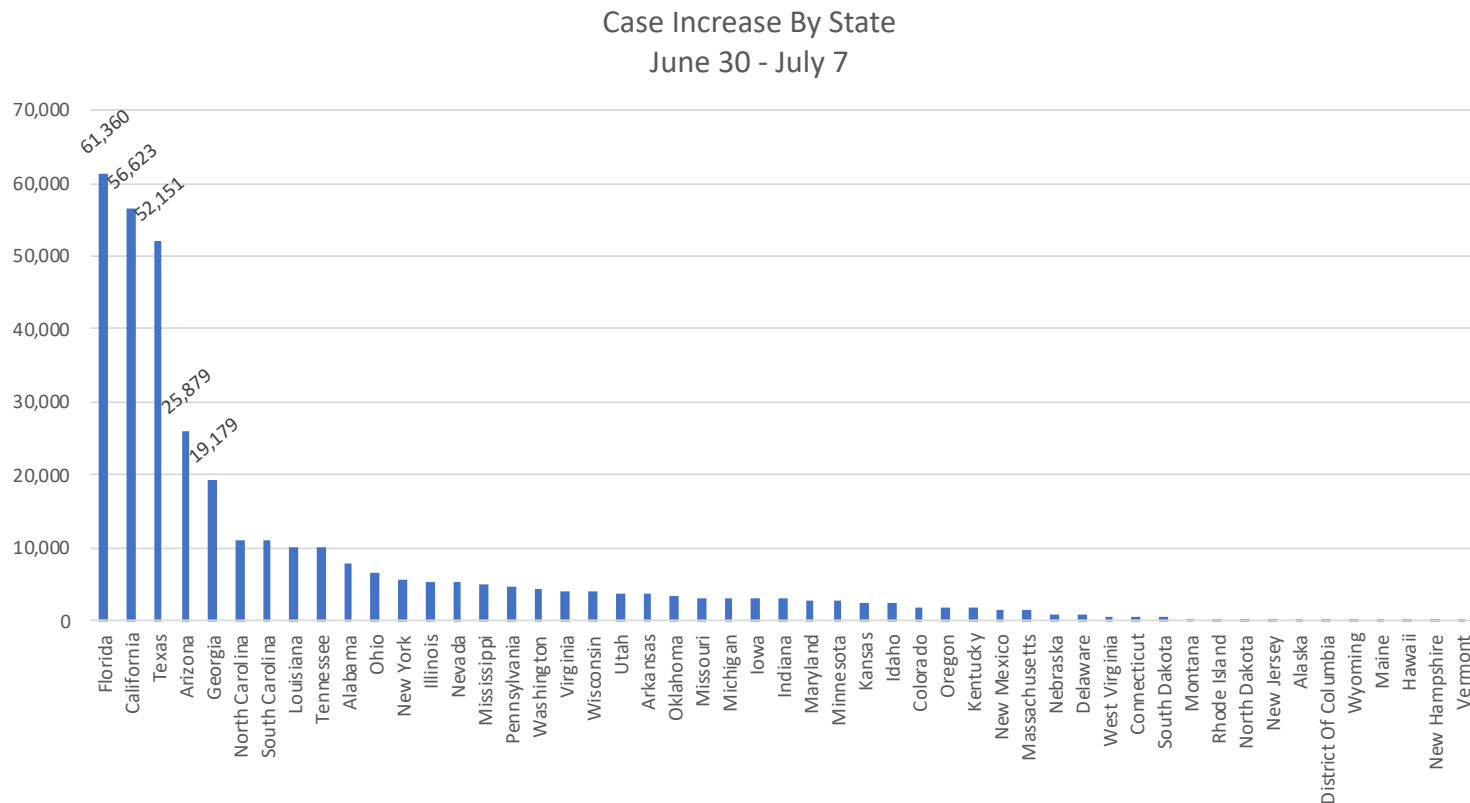
- After steadily declining during April and May, new cases clearly began to rise sharply on June 9
- Although testing has steadily increased, this cannot explain the rise in new cases
The concentrated rise in new infections per capita recently in Arizona, California, Florida and Texas mirrors the concentrated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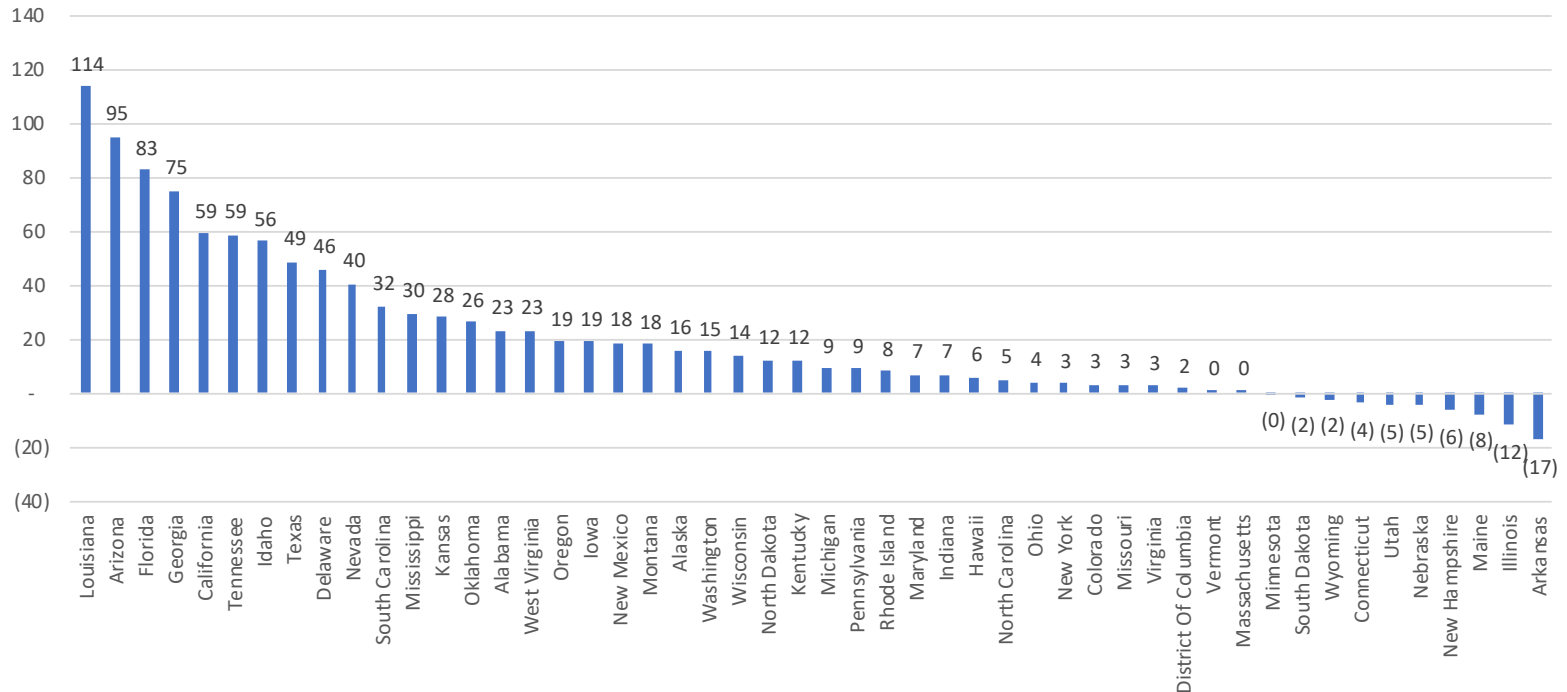
Case Growth in the U.S. Continues to be Concentrated in A Few States



Change In New Infections / 1 Million

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Change in New Infection Rate / 1 Million
June 30 - July 7

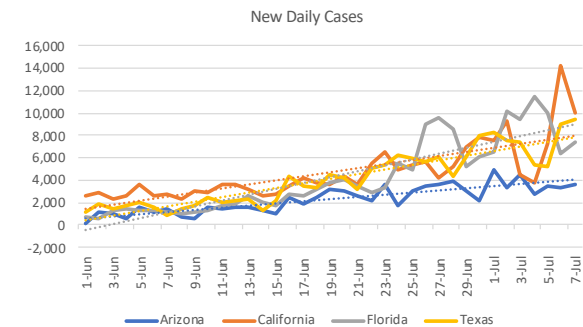
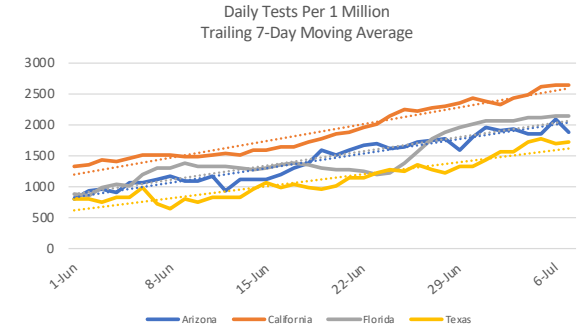
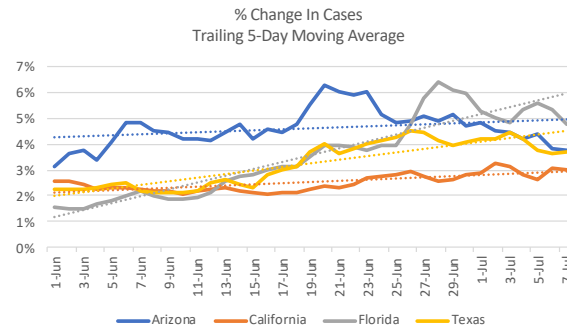
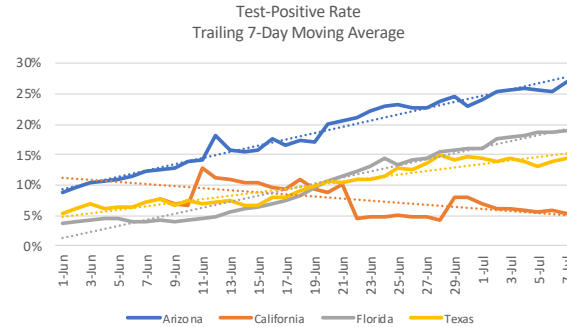


Tracking Testing Rates and Cases Arizona, California, Florida and Texas

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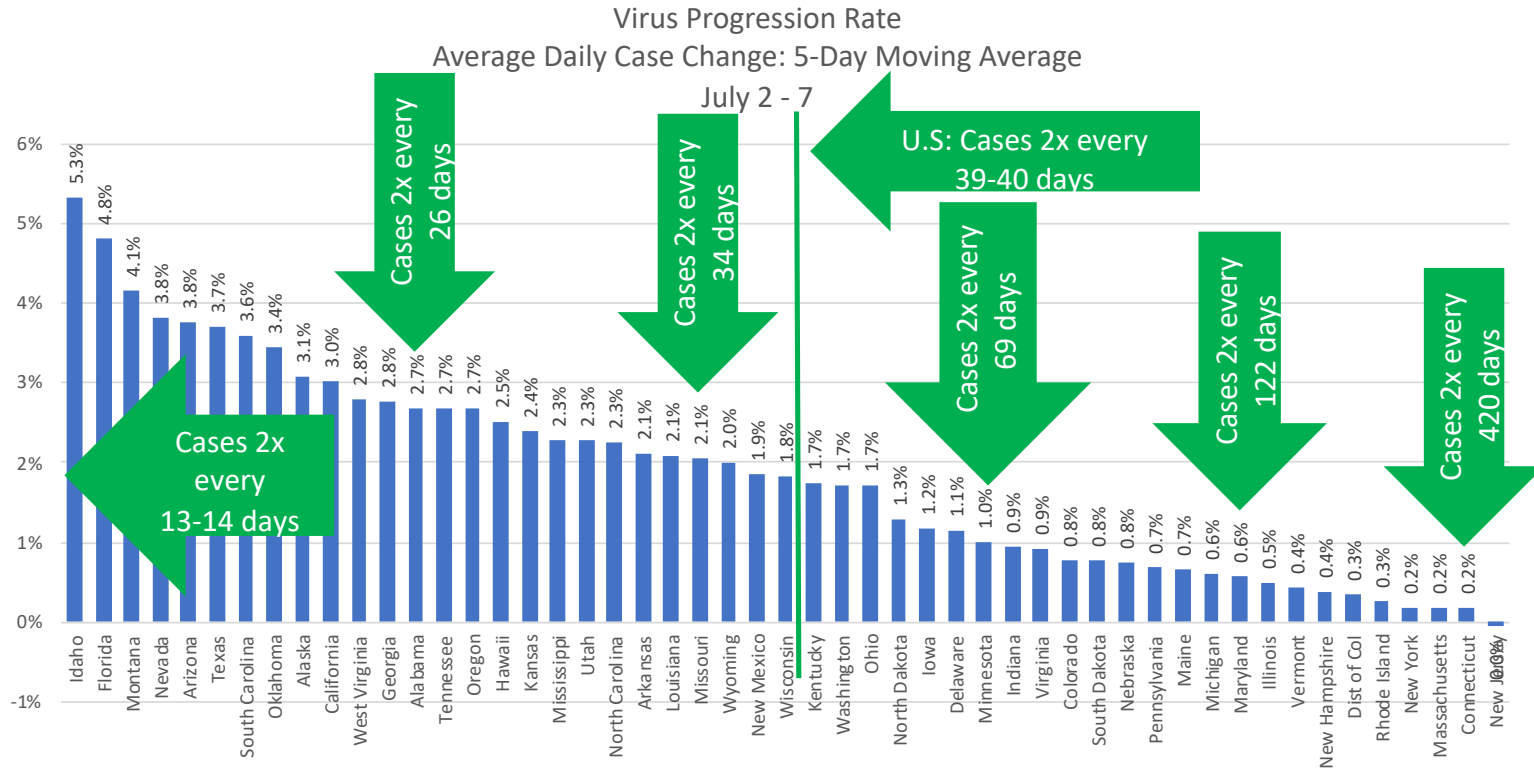
Observations:

- 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
- Rates of change in case volumes continue to decline in Arizona and Florida; and have begun to decline in Texas



Average Daily Case Growth

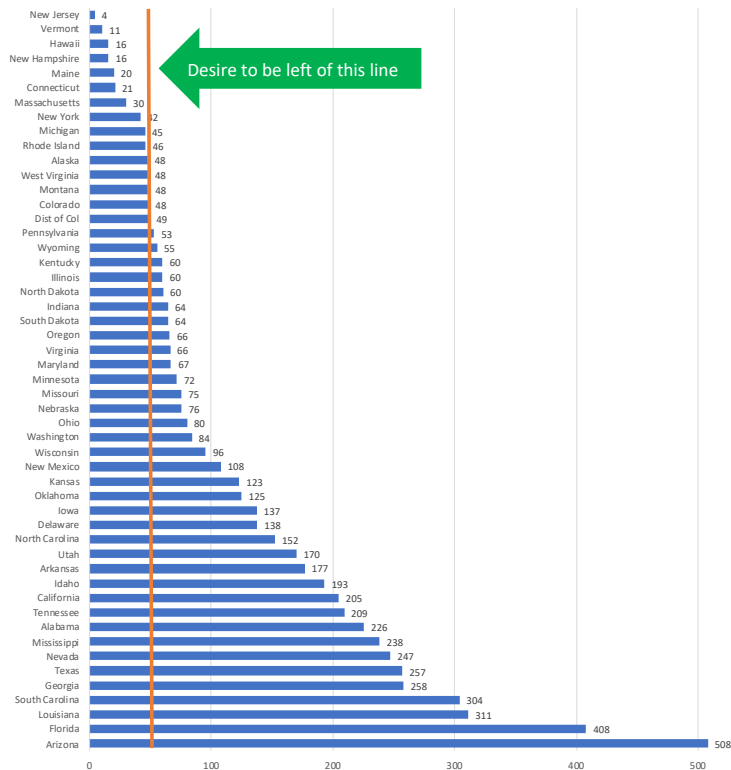
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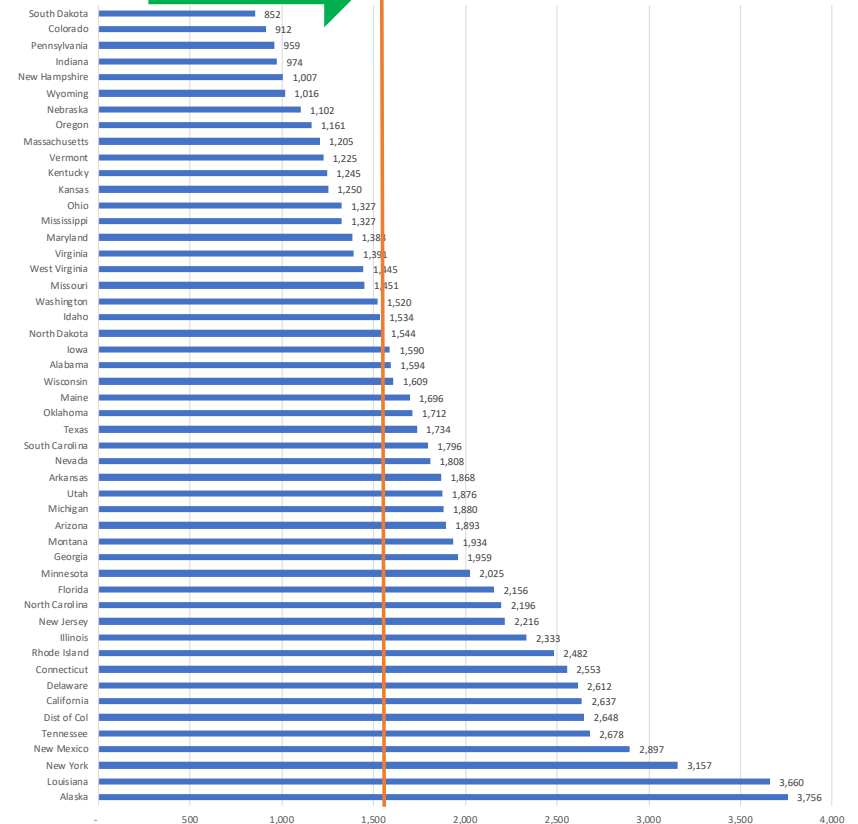
State-by-State New Daily Infections & Tests Per Capita

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New Daily Infections Per 1 Million Population
By State
June 30 - July 7



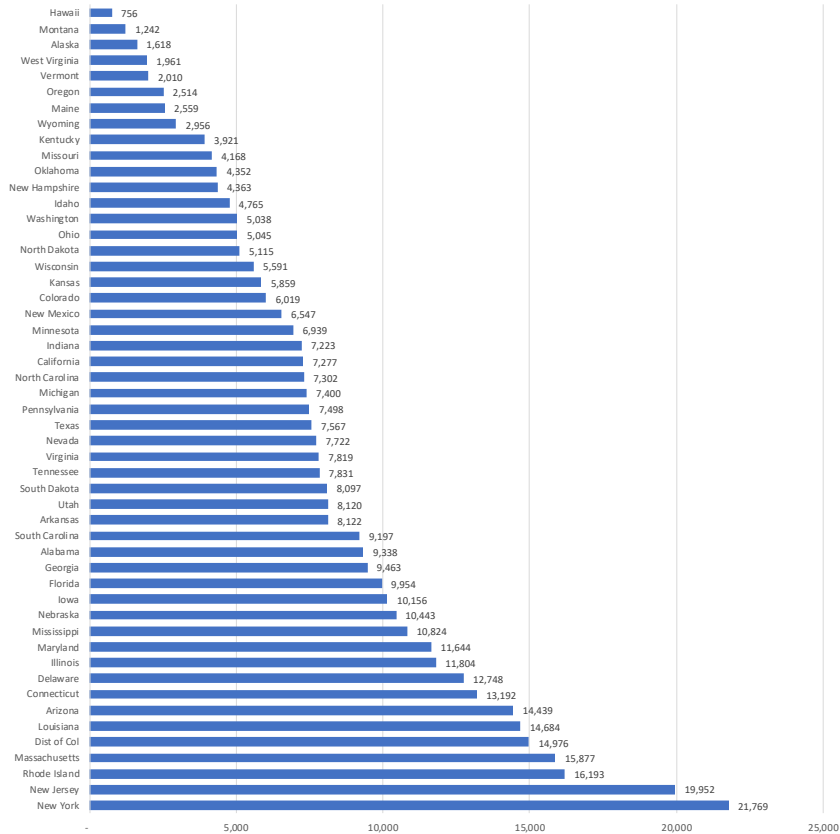
Daily Tests Per 1 Million Population
By State
June 30 - July 7



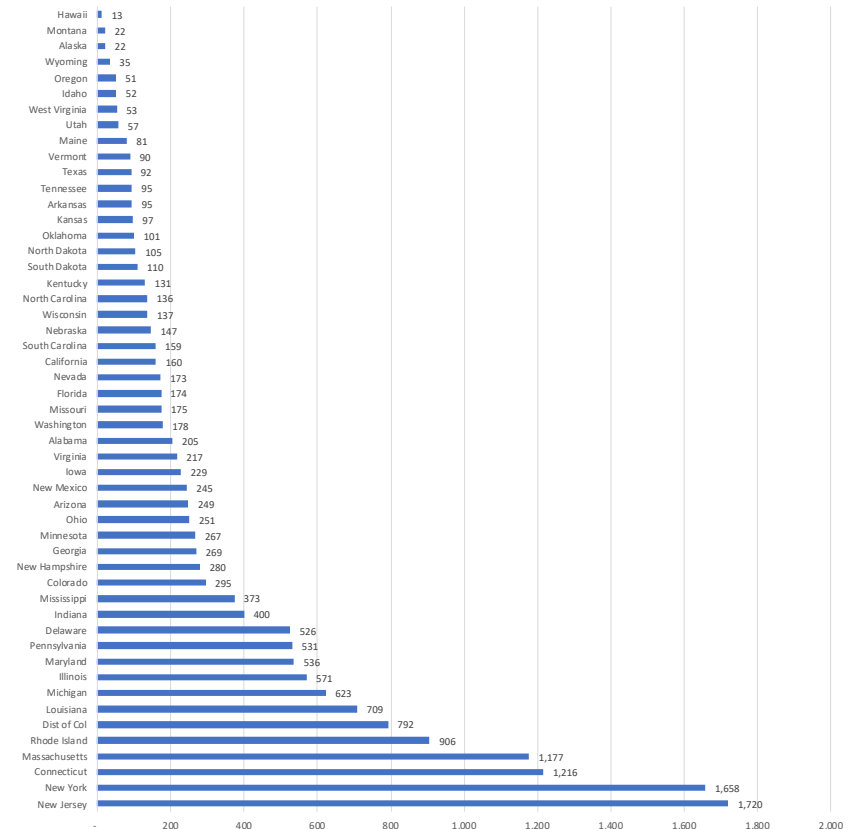
State-by-State Cases & Deaths Per Capita

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Total Cases Per 1 Million Population
By State
As of July 7



Deaths Per 1 Million Population
By State
As of July 7



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 7

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	45,785	(21)	9,337.8	(17)	1,033	(24)	2.3%	(33)	210.7	(24)	2.7%	(13)	1,594	(28)	224.4	(9)
Alaska	1,184	(50)	1,618.5	(49)	17	(51)	1.4%	(43)	23.2	(49)	3.1%	(9)	3,756	(1)	51.2	(37)
Arizona	105,094	(8)	14,438.5	(7)	1,927	(16)	1.8%	(37)	264.7	(19)	3.8%	(5)	1,893	(18)	480.0	(1)
Arkansas	24,512	(30)	8,122.4	(19)	301	(37)	1.2%	(48)	99.7	(38)	2.1%	(21)	1,868	(21)	189.2	(12)
California	287,514	(2)	7,276.6	(29)	6,563	(6)	2.3%	(31)	166.1	(29)	3.0%	(10)	2,637	(7)	196.9	(11)
Colorado	34,664	(24)	6,019.4	(33)	1,701	(18)	4.9%	(12)	295.4	(15)	0.8%	(36)	912	(49)	43.3	(42)
Connecticut	47,033	(20)	13,191.9	(8)	4,338	(8)	9.2%	(1)	1,216.7	(3)	0.2%	(50)	2,553	(9)	24.6	(46)
Delaware	12,414	(38)	12,748.5	(9)	514	(34)	4.1%	(18)	527.8	(12)	1.1%	(32)	2,612	(8)	134.5	(16)
District Of Columbia	10,569	(40)	14,975.6	(5)	561	(31)	5.3%	(10)	794.9	(6)	0.3%	(46)	2,648	(6)	45.1	(39)
Florida	213,794	(4)	9,954.2	(15)	3,841	(9)	1.8%	(38)	178.8	(26)	4.8%	(2)	2,156	(14)	399.8	(2)
Georgia	100,470	(9)	9,462.7	(16)	2,899	(13)	2.9%	(25)	273.0	(17)	2.8%	(12)	1,959	(16)	237.4	(6)
Hawaii	1,071	(51)	756.4	(51)	19	(50)	1.8%	(40)	13.4	(51)	2.5%	(16)	800	(51)	13.1	(50)
Idaho	8,539	(41)	4,764.9	(39)	94	(45)	1.1%	(50)	52.5	(46)	5.3%	(1)	1,534	(31)	183.3	(13)
Illinois	149,574	(6)	11,803.7	(10)	7,273	(4)	4.9%	(14)	574.0	(9)	0.5%	(43)	2,333	(11)	61.7	(32)
Indiana	48,626	(18)	7,222.9	(30)	2,717	(15)	5.6%	(9)	403.6	(13)	0.9%	(34)	974	(47)	65.8	(26)
Iowa	32,042	(27)	10,155.7	(14)	728	(28)	2.3%	(32)	230.7	(22)	1.2%	(31)	1,590	(29)	131.3	(17)
Kansas	17,070	(36)	5,859.3	(34)	288	(38)	1.7%	(42)	98.9	(39)	2.4%	(17)	1,250	(39)	120.6	(18)
Kentucky	17,519	(33)	3,921.3	(43)	602	(30)	3.4%	(23)	134.7	(34)	1.7%	(27)	1,245	(40)	57.7	(34)
Louisiana	68,263	(14)	14,684.0	(6)	3,325	(10)	4.9%	(13)	715.2	(7)	2.1%	(22)	3,660	(2)	283.7	(4)
Maine	3,440	(46)	2,559.1	(45)	110	(42)	3.2%	(24)	81.8	(43)	0.7%	(40)	1,696	(26)	21.7	(47)
Maryland	70,396	(13)	11,644.0	(11)	3,266	(11)	4.6%	(15)	540.2	(10)	0.6%	(42)	1,383	(36)	62.6	(30)
Massachusetts	110,338	(7)	15,877.1	(4)	8,213	(3)	7.4%	(5)	1,181.8	(4)	0.2%	(49)	1,205	(42)	28.1	(45)
Michigan	73,900	(12)	7,399.7	(27)	6,251	(7)	8.5%	(3)	625.9	(8)	0.6%	(41)	1,880	(19)	43.5	(41)
Minnesota	39,133	(22)	6,938.9	(31)	1,514	(19)	3.9%	(19)	268.5	(18)	1.0%	(33)	2,025	(15)	68.6	(25)
Mississippi	32,214	(26)	10,824.1	(12)	1,158	(22)	3.6%	(22)	389.1	(14)	2.3%	(18)	1,327	(37)	225.1	(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 7

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Missouri	25,579	(29)	4,167.7	(42)	1,090	(23)	4.3%	(17)	177.6	(28)	2.1%	(23)	1,451	(33)	62.1	(31)
Montana	1,327	(48)	1,241.6	(50)	23	(48)	1.7%	(41)	21.5	(50)	4.1%	(3)	1,934	(17)	44.1	(40)
Nebraska	20,201	(32)	10,443.0	(13)	282	(39)	1.4%	(44)	145.8	(31)	0.8%	(38)	1,102	(44)	84.7	(22)
Nevada	23,785	(31)	7,722.0	(24)	548	(32)	2.3%	(30)	177.9	(27)	3.8%	(4)	1,808	(22)	232.6	(7)
New Hampshire	5,932	(43)	4,362.7	(40)	384	(36)	6.5%	(7)	282.4	(16)	0.4%	(45)	1,007	(46)	16.2	(48)
New Jersey	177,214	(5)	19,951.6	(2)	15,352	(2)	8.7%	(2)	1,728.4	(1)	0.0%	(51)	2,216	(12)	15.8	(49)
New Mexico	13,727	(37)	6,546.6	(32)	519	(33)	3.8%	(20)	247.5	(21)	1.9%	(25)	2,897	(4)	103.9	(20)
New York	423,493	(1)	21,769.4	(1)	32,292	(1)	7.6%	(4)	1,660.0	(2)	0.2%	(48)	3,157	(3)	40.6	(43)
North Carolina	76,582	(11)	7,301.8	(28)	1,459	(20)	1.9%	(36)	139.1	(32)	2.3%	(20)	2,196	(13)	151.2	(15)
North Dakota	3,898	(44)	5,115.1	(36)	84	(46)	2.2%	(34)	110.2	(36)	1.3%	(30)	1,544	(30)	58.1	(33)
Ohio	58,967	(16)	5,044.6	(37)	2,979	(12)	5.1%	(11)	254.9	(20)	1.7%	(29)	1,327	(38)	77.7	(24)
Oklahoma	17,220	(34)	4,351.8	(41)	404	(35)	2.3%	(29)	102.1	(37)	3.4%	(8)	1,712	(25)	115.2	(19)
Oregon	10,605	(39)	2,514.4	(46)	220	(40)	2.1%	(35)	52.2	(47)	2.7%	(15)	1,161	(43)	64.7	(28)
Pennsylvania	95,986	(10)	7,497.7	(26)	6,841	(5)	7.1%	(6)	534.4	(11)	0.7%	(39)	959	(48)	51.7	(36)
Rhode Island	17,154	(35)	16,192.8	(3)	969	(25)	5.6%	(8)	914.7	(5)	0.3%	(47)	2,482	(10)	30.6	(44)
South Carolina	47,352	(19)	9,196.9	(18)	846	(26)	1.8%	(39)	164.3	(30)	3.6%	(7)	1,796	(23)	325.6	(3)
South Dakota	7,163	(42)	8,096.9	(21)	98	(43)	1.4%	(45)	110.8	(35)	0.8%	(37)	852	(50)	62.8	(29)
Tennessee	53,514	(17)	7,831.5	(22)	665	(29)	1.2%	(47)	97.3	(41)	2.7%	(14)	2,678	(5)	206.1	(10)
Texas	219,420	(3)	7,567.3	(25)	2,823	(14)	1.3%	(46)	97.4	(40)	3.7%	(6)	1,734	(24)	249.8	(5)
Utah	26,033	(28)	8,120.2	(20)	194	(41)	0.7%	(51)	60.5	(44)	2.3%	(19)	1,876	(20)	169.6	(14)
Vermont	1,254	(49)	2,009.7	(47)	56	(47)	4.5%	(16)	89.7	(42)	0.4%	(44)	1,225	(41)	9.8	(51)
Virginia	66,740	(15)	7,819.1	(23)	1,881	(17)	2.8%	(26)	220.4	(23)	0.9%	(35)	1,391	(35)	65.5	(27)
Washington	38,364	(23)	5,038.0	(38)	1,384	(21)	3.6%	(21)	181.7	(25)	1.7%	(28)	1,520	(32)	84.3	(23)
West Virginia	3,505	(45)	1,961.2	(48)	95	(44)	2.7%	(27)	53.2	(45)	2.8%	(11)	1,445	(34)	45.7	(38)
Wisconsin	32,556	(25)	5,591.5	(35)	805	(27)	2.5%	(28)	138.3	(33)	1.8%	(26)	1,609	(27)	98.2	(21)
Wyoming	1,711	(47)	2,956.3	(44)	20	(49)	1.2%	(49)	34.6	(48)	2.0%	(24)	1,016	(45)	55.5	(35)
United States	3,097,084		9,356.7		133,972		4.3%		404.7		1.8%		1,931		159.3	

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, 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 82.5% of all cases worldwide.

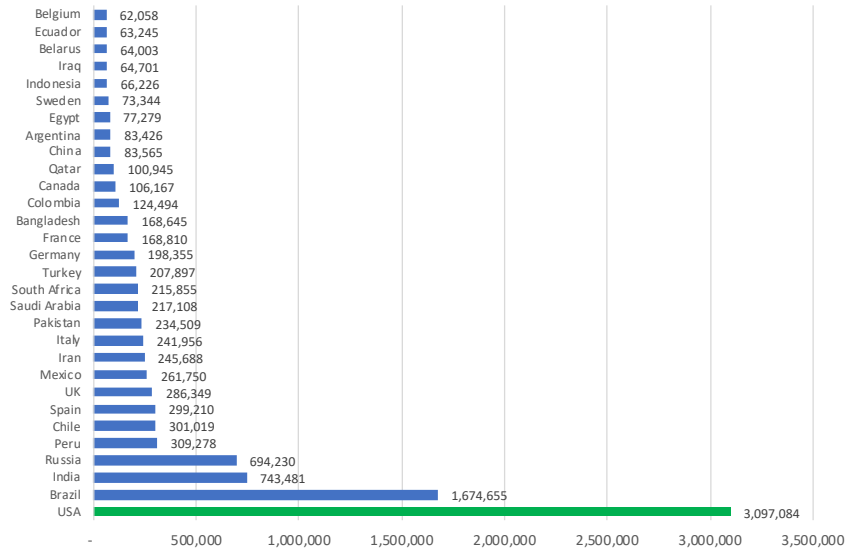
Rank	Country	7-Jul	Rank	Country	6-May	Rank	Country	27-Apr
1	USA	3,097,084	1	USA	1,263,092	1	USA	1,010,356
2	Brazil	1,674,655	2	Spain	253,682	2	Spain	229,422
3	India	743,481	3	Italy	214,457	3	Italy	199,414
4	Russia	694,230	4	UK	201,101	4	France	128,339
5	Peru	309,278	5	France	174,191	5	Germany	158,758
6	Chile	301,019	6	Germany	168,162	6	UK	157,149
7	Spain	299,210	7	Russia	165,929	7	Turkey	112,261
8	UK	286,349	8	Turkey	131,744	8	Iran	91,472
9	Mexico	261,750	9	Brazil	126,611	9	Russia	87,147
10	Iran	245,688	10	Iran	101,650	10	China	82,830
11	Italy	241,956	11	China	82,883	11	Brazil	66,501
12	Pakistan	234,509	12	Canada	63,496	12	Canada	48,500
13	Saudi Arabia	217,108	13	Peru	54,817	13	Belgium	46,687
15	Turkey	207,897	14	India	52,987	14	Netherlands	38,245
16	Germany	198,355	15	Belgium	50,781	15	India	29,451
17	France	168,810	16	Netherlands	41,319	16	Switzerland	29,164
20	Canada	106,167	17	Saudi Arabia	31,938	17	Peru	28,669
22	China	83,565	18	Switzerland	30,060	18	Portugal	24,070
25	Sweden	73,344	19	Ecuador	29,420	19	Ecuador	23,240
29	Ecuador	63,245	20	Portugal	26,182	20	Ireland	19,648
30	Belgium	62,058	21	Mexico	26,025	21	Sweden	18,926
33	Netherlands	50,694	22	Sweden	23,918	22	Saudi Arabia	18,811
38	Singapore	45,140	23	Pakistan	23,214	23	Israel	15,555
39	Portugal	44,416	24	Chile	23,048	24	Austria	15,274
45	Switzerland	32,369	25	Ireland	22,248	25	Mexico	14,677
46	Israel	32,222	26	Singapore	20,198	26	Singapore	14,423
51	Ireland	25,538	29	Israel	16,310	27	Pakistan	13,915
56	Japan	19,981	31	Austria	15,684	28	Chile	13,813
57	Austria	18,421	32	Japan	15,253	29	Japan	13,614
64	S. Korea	13,181	38	S. Korea	10,806	35	South Korea	10,738
	Others	2,090,398		Others	356,176		Others	301,446
	World	11,942,118			3,817,382		World	3,062,515

Country-by-Country Cases & Cases Per Capita

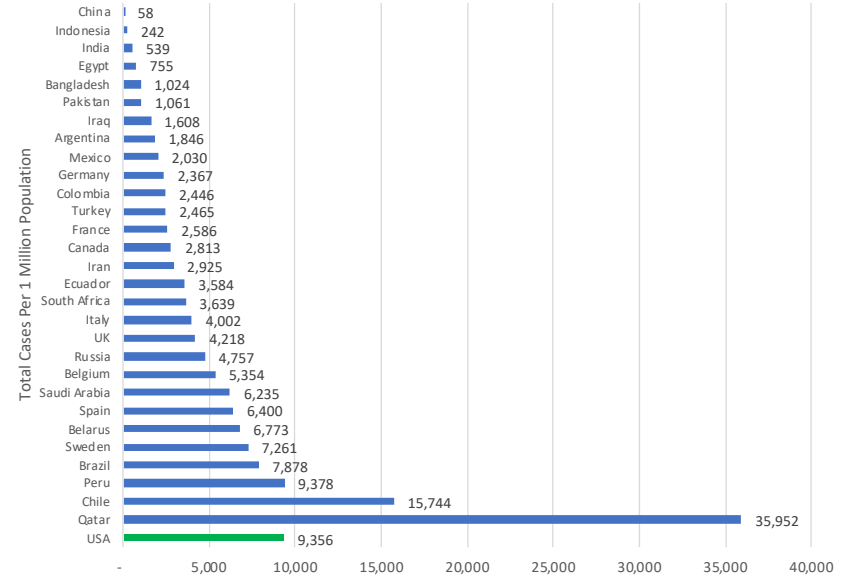
"Strategic Guidance in an Era of Unprecedented Change"

Countries Ranked 1-30 In Total Cases

Total Cases By Country
July 7

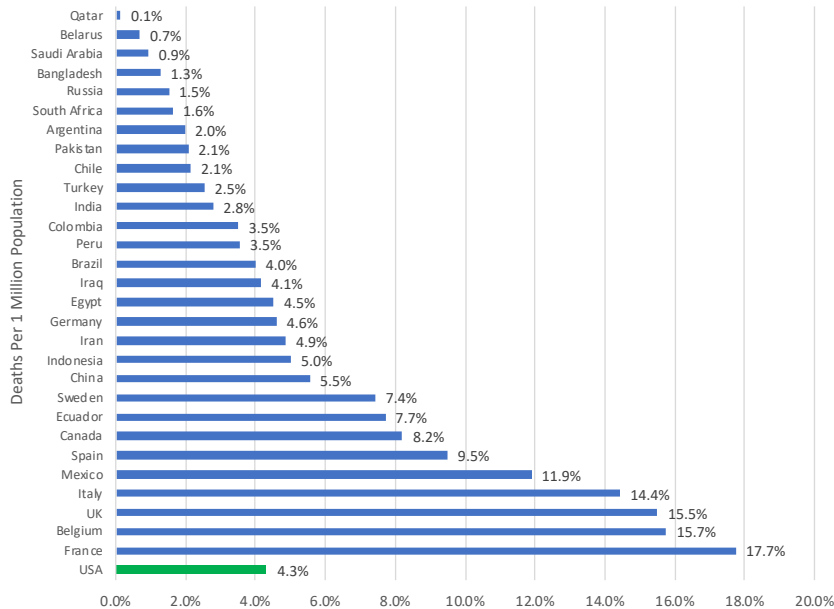


Cases Per Capita By Country
July 7

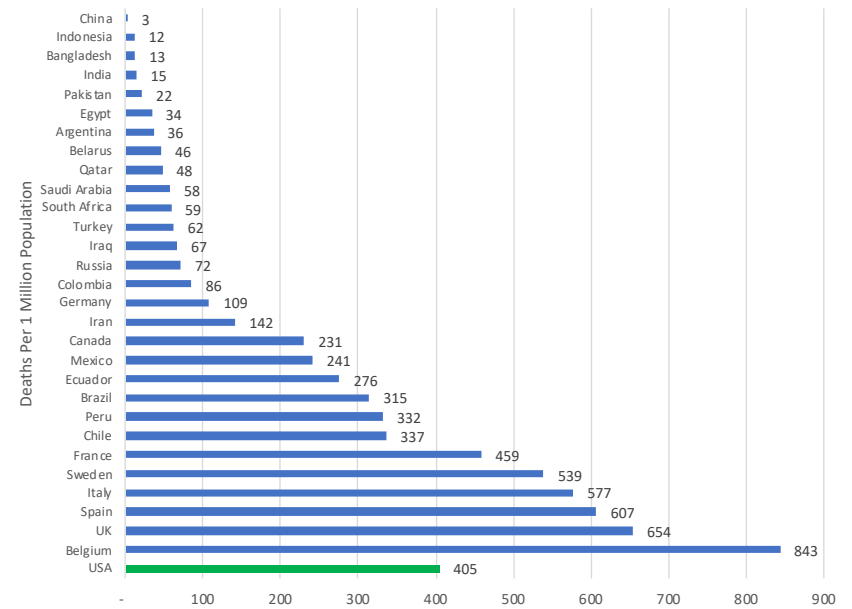


Countries Ranked 1-30 In Total Cases

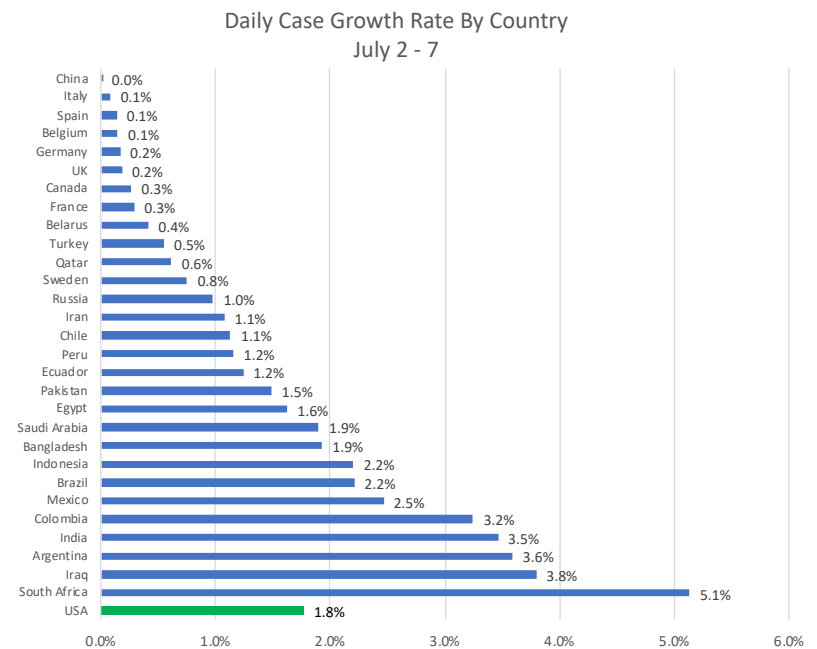
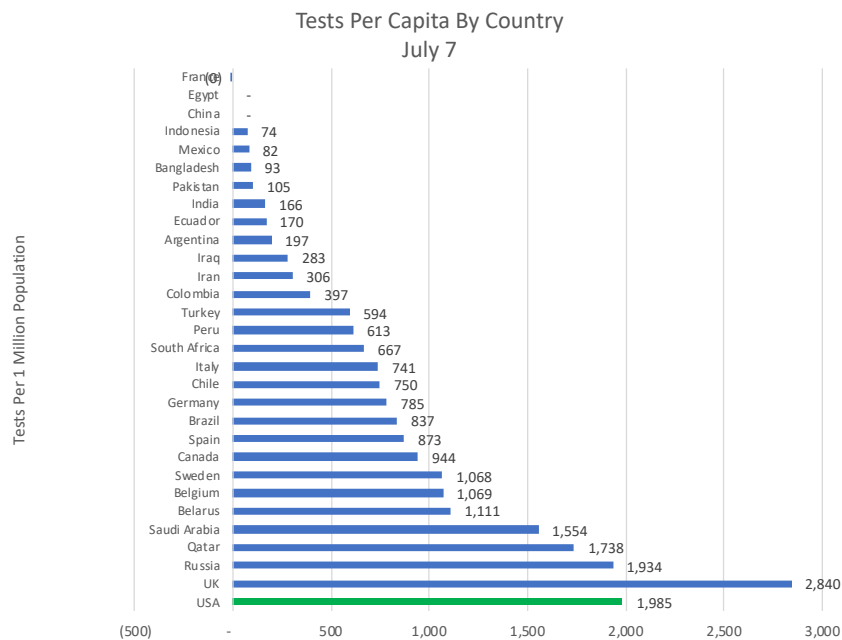
Death Rate By Country
July 7



Deaths Per Capita By Country
July 7



Countries Ranked 1-30 In Total Cases



Daily Tests Per Capita For Past Week

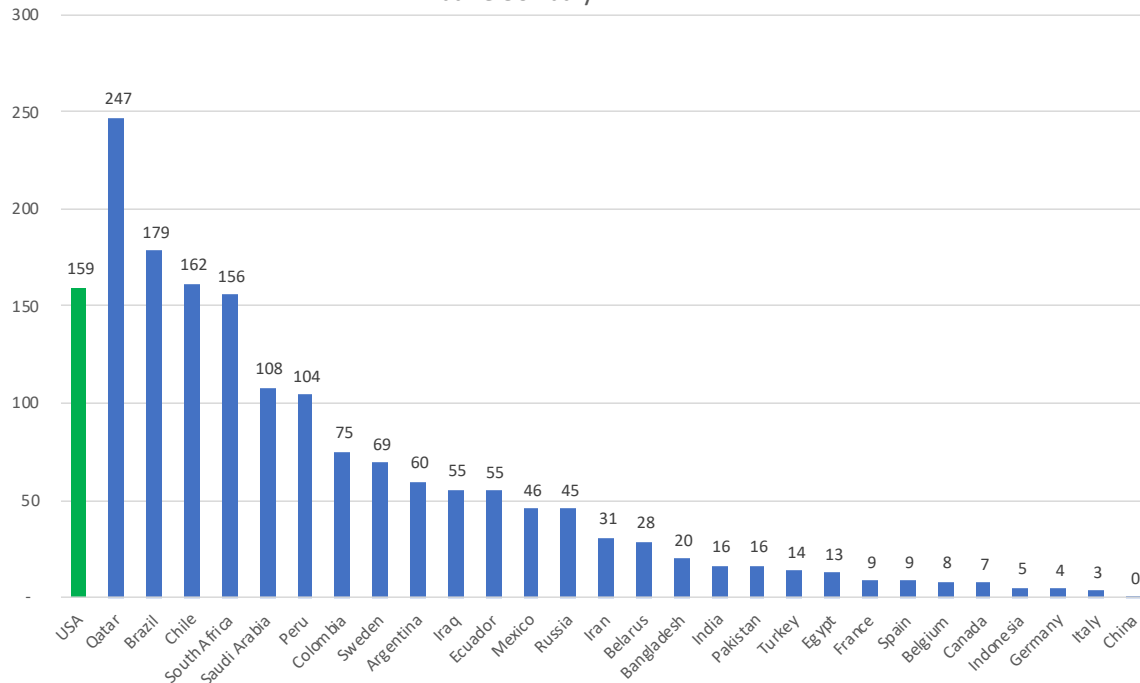
Daily Case Growth – 5-Day Moving Average

Country-by-Country New Daily Infection Rates

"Strategic Guidance in an Era of Unprecedented Change"

Countries Ranked 1-30 In Total Cases

New Daily Infection Rates Per 1 Million Population By Country
June 30 - July 7



Country-by-Country Comparative Statistics

"Strategic Guidance in an Era of Unprecedented Change"

Top 30 Countries By Total Cases

As of July 7

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	3,097,084	(1)	9,356	(4)	133,972	(1)	4.3%	(15)	404.7	(7)	1.8%	(11)	1,985	(2)	159.3	(4)
Brazil	1,674,655	(2)	7,878	(5)	66,868	(2)	4.0%	(17)	314.5	(10)	2.2%	(7)	837	(11)	178.9	(2)
India	743,481	(3)	539	(28)	20,653	(8)	2.8%	(20)	15.0	(27)	3.5%	(4)	166	(23)	16.3	(18)
Russia	694,230	(4)	4,757	(11)	10,494	(11)	1.5%	(26)	71.9	(17)	1.0%	(18)	1,934	(3)	45.4	(14)
Peru	309,278	(5)	9,378	(3)	10,952	(10)	3.5%	(18)	332.1	(9)	1.2%	(15)	613	(16)	104.2	(7)
Chile	301,019	(6)	15,744	(2)	6,434	(15)	2.1%	(22)	336.5	(8)	1.1%	(16)	750	(13)	161.6	(3)
Spain	299,210	(7)	6,400	(8)	28,392	(7)	9.5%	(6)	607.2	(3)	0.1%	(28)	873	(10)	8.7	(23)
UK	286,349	(8)	4,218	(12)	44,391	(3)	15.5%	(3)	653.8	(2)	0.2%	(25)	2,840	(1)	(55.3)	(30)
Mexico	261,750	(9)	2,030	(22)	31,119	(5)	11.9%	(5)	241.3	(12)	2.5%	(6)	82	(26)	45.5	(13)
Iran	245,688	(10)	2,925	(16)	11,931	(9)	4.9%	(12)	142.0	(14)	1.1%	(17)	306	(19)	30.7	(15)
Italy	241,956	(11)	4,002	(13)	34,899	(4)	14.4%	(4)	577.2	(4)	0.1%	(29)	741	(14)	3.3	(28)
Pakistan	234,509	(12)	1,061	(25)	4,839	(19)	2.1%	(23)	21.9	(26)	1.5%	(13)	105	(24)	16.3	(19)
Saudi Arabia	217,108	(13)	6,235	(9)	2,017	(27)	0.9%	(28)	57.9	(21)	1.9%	(10)	1,554	(5)	107.8	(6)
South Africa	215,855	(14)	3,639	(14)	3,502	(22)	1.6%	(25)	59.0	(20)	5.1%	(1)	667	(15)	155.7	(5)
Turkey	207,897	(15)	2,465	(19)	5,260	(17)	2.5%	(21)	62.4	(19)	0.5%	(21)	594	(17)	13.5	(20)
Germany	198,355	(16)	2,367	(21)	9,103	(13)	4.6%	(13)	108.6	(15)	0.2%	(26)	785	(12)	4.3	(27)
France	168,810	(17)	2,586	(18)	29,933	(6)	17.7%	(1)	458.6	(6)	0.3%	(23)	0	(30)	8.8	(22)
Bangladesh	168,645	(18)	1,024	(26)	2,151	(26)	1.3%	(27)	13.1	(28)	1.9%	(9)	93	(25)	20.1	(17)
Colombia	124,494	(19)	2,446	(20)	4,359	(21)	3.5%	(19)	85.7	(16)	3.2%	(5)	397	(18)	74.8	(8)
Canada	106,167	(20)	2,813	(17)	8,711	(14)	8.2%	(7)	230.8	(13)	0.3%	(24)	944	(9)	7.4	(25)
Qatar	100,945	(21)	35,952	(1)	134	(30)	0.1%	(30)	47.7	(22)	0.6%	(20)	1,738	(4)	247.1	(1)
China	83,565	(22)	58	(30)	4,634	(20)	5.5%	(10)	3.2	(30)	0.0%	(30)	0	(28)	0.0	(29)
Argentina	83,426	(23)	1,846	(23)	1,644	(28)	2.0%	(24)	36.4	(24)	3.6%	(3)	197	(21)	59.7	(10)
Egypt	77,279	(24)	755	(27)	3,489	(23)	4.5%	(14)	34.1	(25)	1.6%	(12)	0	(28)	12.5	(21)
Sweden	73,344	(25)	7,261	(6)	5,447	(16)	7.4%	(9)	539.3	(5)	0.8%	(19)	1,068	(8)	69.2	(9)
Indonesia	66,226	(26)	242	(29)	3,309	(24)	5.0%	(11)	12.1	(29)	2.2%	(8)	74	(27)	5.1	(26)
Iraq	64,701	(27)	1,608	(24)	2,685	(25)	4.1%	(16)	66.7	(18)	3.8%	(2)	283	(20)	55.4	(11)
Belarus	64,003	(28)	6,773	(7)	436	(29)	0.7%	(29)	46.1	(23)	0.4%	(22)	1,111	(6)	28.5	(16)
Ecuador	63,245	(29)	3,584	(15)	4,873	(18)	7.7%	(8)	276.1	(11)	1.2%	(14)	170	(22)	55.2	(12)
Belgium	62,058	(30)	5,354	(10)	9,774	(12)	15.7%	(2)	843.3	(1)	0.1%	(27)	1,069	(7)	7.8	(24)

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

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