

COVID-19 Dashboard

Issue # 76 Monday, June 15, 2020



Day's Highlights

"Strategic Guidance in an Era of Unprecedented Change"

Measure	Desired Change	Yesterday in the U.S.
Number of Tests	Increase	~495,000
Test-Positivity Rate	Decline	4.4% test-positive on Sunday; 4.5% for past 7 days
Number of Cases	Plateau	New Cases up 3.0% week-over-week (after adjusting for accounting changes)
Deaths % of Total Cases	Decline	5.5%
Number of Deaths / 1M Population	Plateau	356.1
Recoveries : Death	Increase	7.38

- Let's start with the (legitimately) bad news: 13 states are still
 experiencing their highest new daily infection rates per capita: Alabama,
 Alaska, Arizona, Arkansas, California, Florida, Nevada, North Carolina,
 Oklahoma, Oregon, South Carolina, Tennessee and Texas. (Oklahoma's
 is a relatively low 39 new daily cases per million population.) Utah,
 which had been among these recently, has seen its rate decline since
 last Thursday; Mississippi's has declined since Friday
- The greatest concern continues to be in Alabama, Arizona, Arkansas, Mississippi, North Carolina, South Carolina and Utah, due to the combination of high current rates of new daily infections and one or more of the following: high test-positive rates, near-peak hospitalizations of COVID-19 patients and increasing case growth
- California, Florida, Georgia and Texas, while not on the "greatest concern" list, remain of concern due to their infection rates and their population. In these states, the challenge seems to be concentrated in several large metro areas: Los Angeles and Riverside, California; Miami-Dade and Palm Beach, Florida; Gwinnett and Meriwether, Georgia; and, Chambers, Dallas, Galveston, Hays, Hunt and Travis, Texas

- On the encouraging side: there were 5,000 fewer New Cases on Sunday than on Saturday. This broke a string of 4 consecutive days of increasing new cases. On a week-over-week basis, cases are up 3%; they are also up 2.5% versus 2 weeks ago; they are down, however, by 2.5% versus 3 weeks ago; and, down 3.3% versus 4 weeks ago.
 - It now appears that the United States experienced a "trough" in new cases for the two-week period from May 24 - June 7. Perhaps, the uptick since is the result of relaxed restrictions.
 - Still, the infection rate remains lower than at any time from the beginning of the pandemic through May 23
- Deaths from the virus continued to decline: the 331 deaths recorded on Sunday were the fewest recorded on any day since May 25. It also was the 5th consecutive day of fewer than 1,000 deaths, and the 9th in the last 10. As a result, the death rate per case fell further, to 5.45%. Compared to its peak of 5.98% on May 16, this lower rate is the equivalent of 11,370 fewer deaths
- Hospitalized COVID-19 patients dropped 2.1% on a day-over-day basis;
 11.9% week-over-week; and 19.6% versus two weeks ago



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



Comparative Statistics

"Strategic Guidance in an Era of Unprecedented Change"

Top 30 Countries By Total Cases
As of June 14

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 (5-Day M.A.)	Rank8
USA	2,162,228	(1)	6,534	(5)	117,858	(1)	5.5%	(12)	356.2	(7)	1.1%	(19)	1,511	(7)	70.5	(9)
Brazil	867,882	(2)	4,084	(12)	43,389	(2)	5.0%	(13)	204.2	(11)	3.2%	(10)	336	(20)	118.4	(4)
Russia	528,964	(3)	3,625	(15)	6,948	(13)	1.3%	(25)	47.6	(18)	1.7%	(14)	2,113	(2)	59.9	(10)
India	332,783	(4)	241	(29)	9,520	(9)	2.9%	(19)	6.9	(28)	3.9%	(5)	103	(24)	8.4	(25)
UK	295,889	(5)	4,360	(10)	41,698	(3)	14.1%	(4)	614.4	(2)	0.5%	(22)	2,507	(1)	19.9	(18)
Spain	291,008	(6)	6,224	(6)	27,136	(6)	9.3%	(8)	580.4	(3)	0.1%	(27)	1,227	(8)	8.4	(26)
Italy	236,989	(7)	3,919	(13)	34,345	(4)	14.5%	(3)	568.0	(4)	0.1%	(29)	908	(12)	4.7	(28)
Peru	229,736	(8)	6,972	(3)	6,688	(14)	2.9%	(18)	203.0	(12)	2.4%	(11)	731	(13)	157.8	(3)
Germany	187,671	(9)	2,240	(20)	8,870	(10)	4.7%	(14)	105.9	(15)	0.1%	(28)	588	(16)	2.8	(29)
Iran	187,427	(10)	2,233	(21)	8,837	(11)	4.7%	(15)	105.3	(16)	1.3%	(16)	271	(21)	27.4	(17)
Turkey	178,239	(11)	2,114	(22)	4,807	(17)	2.7%	(20)	57.0	(17)	0.7%	(21)	497	(18)	14.5	(21)
Chile	174,293	(12)	9,121	(2)	3,323	(20)	1.9%	(22)	173.9	(13)	4.1%	(4)	981	(10)	330.0	(2)
France	157,220	(13)	2,409	(19)	29,407	(5)	18.7%	(1)	450.6	(6)	0.3%	(25)	0	(29)	8.1	(27)
Mexico	142,690	(14)	1,107	(24)	16,872	(7)	11.8%	(6)	130.9	(14)	3.5%	(8)	77	(26)	35.1	(13)
Pakistan	139,230	(15)	631	(26)	2,632	(21)	1.9%	(23)	11.9	(26)	5.1%	(2)	120	(23)	28.0	(16)
Saudi Arabia	127,541	(16)	3,666	(14)	972	(26)	0.8%	(26)	27.9	(22)	3.3%	(9)	607	(15)	109.1	(6)
Canada	98,787	(17)	2,618	(18)	8,146	(12)	8.2%	(10)	215.9	(10)	0.4%	(23)	968	(11)	11.3	(22)
Bangladesh	87,520	(18)	532	(27)	1,171	(25)	1.3%	(24)	7.1	(27)	4.1%	(3)	92	(25)	19.3	(19)
China	83,132	(19)	58	(30)	4,634	(18)	5.6%	(11)	3.2	(30)	0.0%	(30)	0	(28)	0.0	(30)
Qatar	79,602	(20)	28,350	(1)	73	(29)	0.1%	(29)	26.0	(23)	2.1%	(13)	1,790	(5)	550.1	(1)
South Africa	70,038	(21)	1,182	(23)	1,480	(24)	2.1%	(21)	25.0	(24)	5.7%	(1)	486	(19)	57.5	(11)
Belgium	60,029	(22)	5,181	(8)	9,655	(8)	16.1%	(2)	833.2	(1)	0.2%	(26)	1,092	(9)	10.2	(24)
Belarus	53,973	(23)	5,712	(7)	308	(27)	0.6%	(28)	32.6	(20)	1.4%	(15)	1,685	(6)	78.5	(7)
Sweden	51,614	(24)	5,112	(9)	4,874	(16)	9.4%	(7)	482.7	(5)	2.4%	(12)	700	(14)	112.7	(5)
Colombia	50,939	(25)	1,002	(25)	1,667	(22)	3.3%	(17)	32.8	(19)	3.9%	(7)	237	(22)	34.8	(14)
Netherlands	48,783	(26)	2,847	(16)	6,059	(15)	12.4%	(5)	353.6	(8)	0.4%	(24)	558	(17)	10.3	(23)
Ecuador	46,751	(27)	2,652	(17)	3,896	(19)	8.3%	(9)	221.0	(9)	1.3%	(17)	54	(27)	32.1	(15)
Egypt	44,598	(28)	436	(28)	1,575	(23)	3.5%	(16)	15.4	(25)	3.9%	(6)	0	(29)	15.2	(20)
UAE	42,294	(29)	4,279	(11)	289	(28)	0.7%	(27)	29.2	(21)	1.2%	(18)	1,813	(4)	48.4	(12)
Singapore	40,604	(30)	6,943	(4)	26	(30)	0.1%	(30)	4.4	(29)	1.1%	(20)	1,958	(3)	71.5	(8)

Note: China does not report test volumes



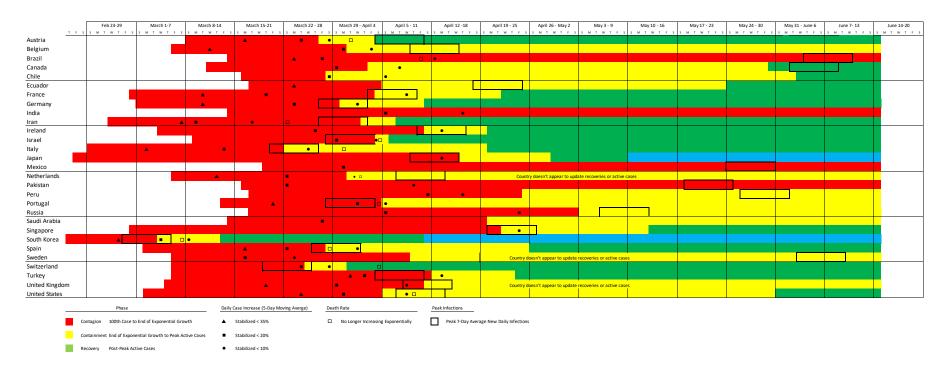
VIRUS PROGRESSION BY COUNTRY



Virus Progression — Original 30 Hardest-Hit Countries

"Strategic Guidance in an Era of Unprecedented Change"

This graphic illustrates when the country first recorded 100 total cases (start of the "contagion" phase); when growth stopped following an exponential pattern (start of the "containment" phase); and, when peak total cases were recorded (start of the "recovery" phase). It uses symbols to indicate when average daily case growth rates fell (and were sustained) below certain benchmarks, as well as when deaths stopped growing exponentially.





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
- Oatar
- Panama
- Philippines
- Romania
- · South Africa
- UAE
- Ukraine

The original 30 still account for 85.5% of all cases worldwide.

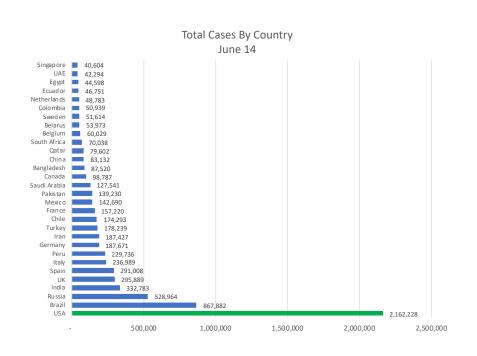
				Total Cases				
ank	Country	14-Jun	Rank	Country	6-May	Rank	Country	27-Apr
1 US	SA	2,162,228	1	. USA	1,263,092	1	USA	1,010,35
2 Br	azil	867,882	2	! Spain	253,682	2	Spain	229,42
3 Ru	ussia	528,964	3	ltaly	214,457	3	Italy	199,41
4 Inc	dia	332,783	4	l UK	201,101	4	France	128,33
5 Uk	K	295,889	5	France	174,191	5	Germany	158,75
6 Sp	oain	291,008	6	Germany	168,162	6	UK	157,14
7 Ita	aly	236,989	7	' Russia	165,929	7	Turkey	112,26
8 Pe	eru	229,736	8	3 Turkey	131,744	8	Iran	91,47
9 Ge	ermany	187,671	9) Brazil	126,611	9	Russia	87,14
10 Ira	an	187,427	10) Iran	101,650	10	China	82,83
11 Tu	ırkey	178,239	11	. China	82,883	11	Brazil	66,50
12 Ch	nile	174,293	12	! Canada	63,496	12	Canada	48,50
13 Fr	ance	157,220	13	Peru	54,817	13	Belgium	46,68
14 M	exico	142,690	14	India	52,987	14	Netherlands	38,24
15 Pa	ıkistan	139,230	15	Belgium	50,781	15	India	29,45
16 Sa	udi Arabia	127,541	16	Netherlands	41,319	16	Switzerland	29,16
17 Ca	ınada	98,787	17	' Saudi Arabia	31,938	17	Peru	28,66
19 Ch	nina	83,132	18	Switzerland	30,060	18	Portugal	24,07
22 Be	elgium	60,029	19	Ecuador	29,420	19	Ecuador	23,24
24 Sw	veden	51,614	20	Portugal	26,182	20	Ireland	19,64
26 Ne	etherlands	48,783	21	Mexico	26,025	21	Sweden	18,92
27 Ec	cuador	46,751	22	. Sweden	23,918	22	Saudi Arabia	18,81
30 Sir	ngapore	40,604	23	Pakistan	23,214	23	Israel	15,55
32 Po	ortugal	36,690	24	Chile	23,048	24	Austria	15,27
36 Sw	vitzerland	31,117	25	Ireland	22,248	25	Mexico	14,67
39 Ire	eland	25,303	26	Singapore	20,198	26	Singapore	14,42
46 Isr	rael	19,055	29	Israel	16,310	27	Pakistan	13,91
49 Ja	pan	17,429	31	. Austria	15,684	28	Chile	13,81
50 Au		17,109	32	! Japan	15,253	29	Japan	13,61
56 S.	Korea	12,085	38	S S. Korea	10,806		South Korea	10,73
Ot	thers	1,155,891		Others	356,176		Others	301,44
	orld	7,984,169			3,817,382		World	3,062,51
	=			•				
30	countries' share	85.5%			90.7%			90.2%

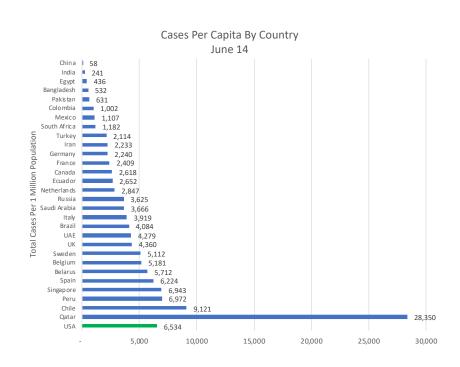


Cases & Cases Per Capita

"Strategic Guidance in an Era of Unprecedented Change"

Countries Ranked 1-30 In Total Cases



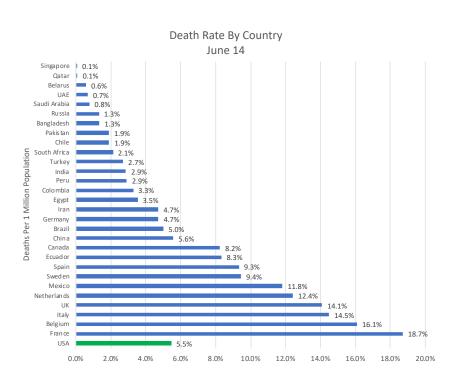


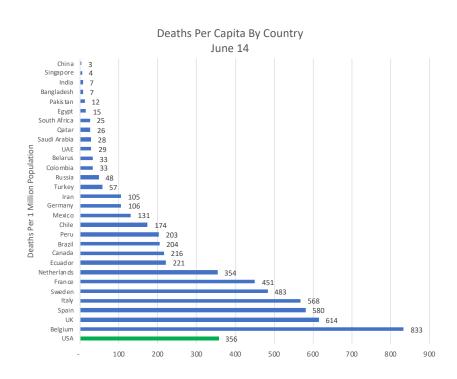


Deaths Per Cases & Per Capita

"Strategic Guidance in an Era of Unprecedented Change"

Countries Ranked 1-30 In Total Cases





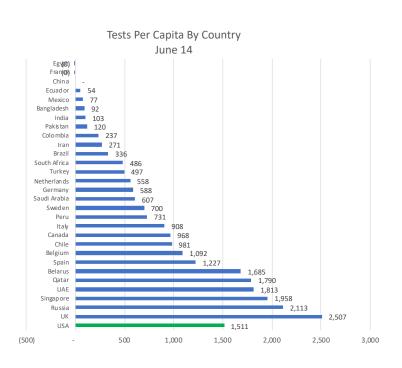
 $\hbox{@ 2020 $\underline{$Health$ Industry Advisor LLC$}$ analysis, using data from $\underline{$worldometers.info}$}$

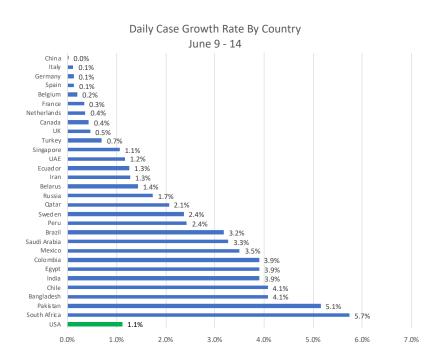


Daily Tests Per Capita & Daily Case Growth

"Strategic Guidance in an Era of Unprecedented Change"

Countries Ranked 1-30 In Total Cases





Daily Tests Per Capita For Past Week

Daily Case Growth – 5-Day Moving Average

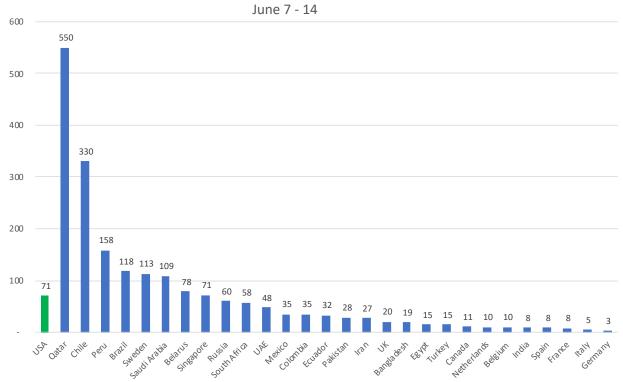


New Daily Infection Rates

"Strategic Guidance in an Era of Unprecedented Change"

Countries Ranked 1-30 In Total Cases







UNITED STATES & STATE-BY-STATE INFORMATION



STATE-BY-STATE OVERALL ASSESSMENT SCORECARD



Overall Assessment Scorecard

"Strategic Guidance in an Era of Unprecedented Change"

Status, as of June 14

Missouri

Montana

Nebraska

New Hampshire

New Jersey

New Mexico

North Carolina

North Dakota

New York

Oklahoma

Pennsylvania

Rhode Island

South Carolina

South Dakota

Tennessee

Texas

Utah

Vermont

Virginia

Oregon

Ohio

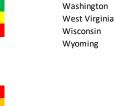
Nevada

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)







High Moderately High Moderate Low





United States

Overall Statistics

15%

10%

2,500,000

New York and Michigan made accounting adjustments to the case totals on June 5. These had the effect of adding 8.7 new daily infections per million to the US totals. Data here has not been adjusted to account for these accounting changes

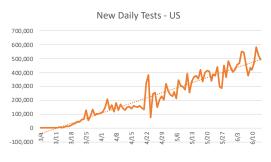
"Strategic Guidance in an Era of Unprecedented Change"

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.

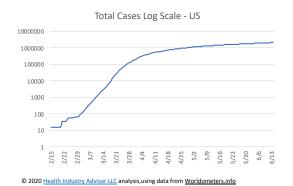
Further, new daily infections continue to decline; the death rate seems to have stabilized.

Test-Positive Rate

Trailing 7-Day Moving Average





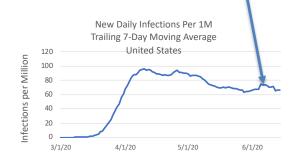


2,000,000 —Total
1,500,000 —Active
1,000,000

© 2020 Health Industry Advisor LLC analysis, using data from Covid Tracking Project

Cases - US

© 2020 Health Industry Advisor LLC analysis, using data from Worldometers.info



© 2020 <u>Health Industry Advisor LLC</u> analysis, using data from <u>Worldometers.info</u>



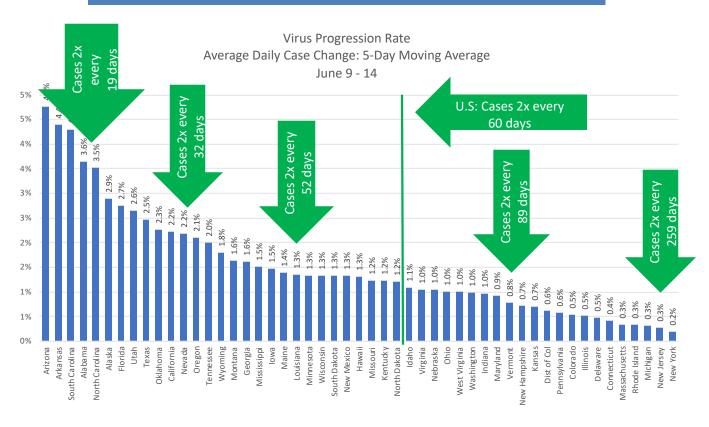
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Average Daily Case Growth

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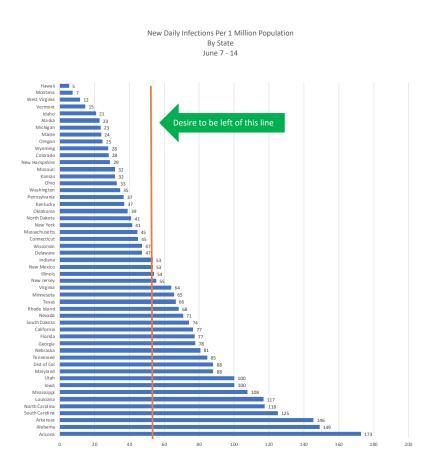
At the height of the epidemic, cases in some states were doubling every few days. Now, they would take from 15 – 367 days to double

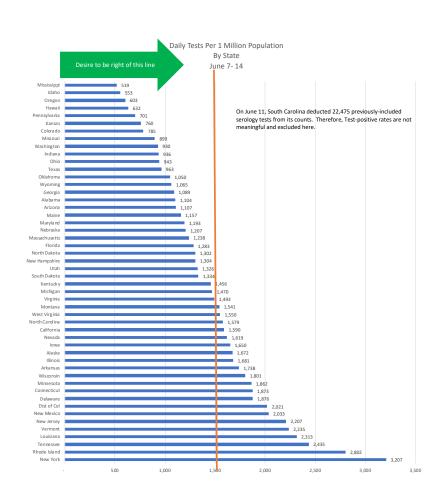




New Daily Infections & Tests Per Capita

"Strategic Guidance in an Era of Unprecedented Change"

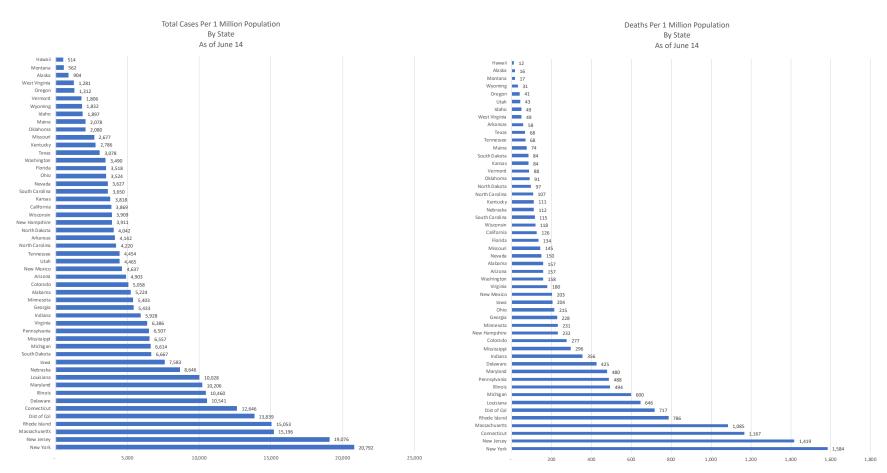






Cases & Deaths Per Capita

"Strategic Guidance in an Era of Unprecedented Change"





Which States Are Performing Sufficient Tests?

"Strategic Guidance in an Era of Unprecedented Change"

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. Only Arizona and Mississippi failed to meet this guideline for the past week.





Comparative Statistics- Page 1 of 2

"Strategic Guidance in an Era of Unprecedented Change"

As of June 14

Alabama 25,615 (23) 5,224.2 (21) 773 (25) 3,0% (36) 157.7 (25) 3,6% (4) Alaska 661 (50) 903.6 (49) 12 (51) 1.8% (45) 16.4 (50) 2.9% (6) Arkansa 12,501 (32) 4,142.4 (28) 179 (39) 1.4% (48) 59.3 (43) 4.4% (2) California 152,882 (3) 3,869.2 (32) 5,089 (7) 3,3% (30) 128.8 (29) 2.2% (11) Colorado 29,130 (21) 5,058.4 (22) 1,599 (16) 5.5% (11) 277.7 (15) 0.5% (43) Colorado 29,130 (21) 5,058.4 (22) 1,599 (16) 5.5% (11) 2,77.7 (15) 0.5% (43) Colorado 10,264 (36) 10,540.5 (7) 422 (34) </th <th>Tests per 1M New Daily Cases Per Population Past 7 Rank7 1M Population (5- Ran days Day M.A.)</th> <th>Rank6 Population Past 7</th> <th>5-day Moving Average Case Ran Growth Rate</th> <th>Rank5</th> <th>Deaths per 1 Million Population</th> <th>Rank4</th> <th>Death Rate</th> <th>Rank3</th> <th>Deaths</th> <th>Rank2</th> <th>Cases per 1M Population</th> <th>Rank</th> <th>Total Cases</th> <th>State</th>	Tests per 1M New Daily Cases Per Population Past 7 Rank7 1M Population (5- Ran days Day M.A.)	Rank6 Population Past 7	5-day Moving Average Case Ran Growth Rate	Rank5	Deaths per 1 Million Population	Rank4	Death Rate	Rank3	Deaths	Rank2	Cases per 1M Population	Rank	Total Cases	State
Arizona 35,691 (18) 4,903.5 (23) 1,186 (20) 3.3% (31) 162.9 (23) 4.8% (1) Arkansas 12,501 (32) 4,142.4 (28) 179 (39) 1.4% (48) 59.3 (43) 4.4% (2) California 152,882 (3) 3,869.2 (32) 5,089 (7) 3.3% (30) 128.8 (29) 2.2% (11) Colorado 29,130 (21) 5,058.4 (22) 1,599 (16) 5.5% (11) 277.7 (15) 0.5% (43) Connecticut 45,088 (14) 12,646.4 (6) 4,201 (8) 9.3% (1) 1,178.3 (3) 0.4% (46) Delaware 10,264 (36) 10,540.5 (7) 422 (34) 4.1% (25) 433.4 (12) 0.5% (45) District Of Columbia 9,767 (37) 13,839.2 (5) 515 (29) 5.3% (13) 729.7 (6) 0.6% (41) Florida 75,568 (8) 3,518.4 (37) 2,934 (11) 3.9% (27) 136.6 (28) 2.7% (7) Hawaii 728 (49) 514.2 (51) 17 (50) 2.3% (42) 12.0 (51) 1.3% (26) Idaho 3,399 (43) 1,896.7 (44) 87 (44) 2.6% (39) 48.5 (45) 1.1% (30) Illinois 132,543 (4) 10,459.7 (8) 6,308 (4) 4.8% (17) 497.8 (9) 0.5% (44) Illinois 132,543 (4) 10,459.7 (8) 6,308 (4) 4.8% (17) 497.8 (9) 0.5% (44) Illinois 11,124 (35) 3,818.3 (33) 245 (37) 2.2% (44) 84.1 (39) 0.7% (40) Kentucky 12,445 (33) 2,785.6 (40) 499 (30) 4.0% (26) 111.7 (32) 1.2% (28) Illinois 2,793 (45) 2,077.8 (43) 100 (42) 3.6% (29) 74.4 (40) 1.4% (20) Maryland 61,701 (10) 10,205.8 (9) 2,939 (10) 4.8% (16) 486.1 (11) 0.9% (37)	1,104 (35) 132.8	(4) 1,104	3.6%	(25)	157.7	(36)	3.0%	(25)	773	(21)	5,224.2	(23)	25,615	Alabama
Arkansas 12,501 (32) 4,142.4 (28) 179 (39) 1.4% (48) 59.3 (43) 4.4% (2) California 152,882 (3) 3,869.2 (32) 5,089 (7) 3.3% (30) 128.8 (29) 2.2% (11) Colorado 29,130 (21) 5,058.4 (22) 1,599 (16) 5.5% (11) 277.7 (15) 0.5% (43) Connecticut 45,088 (14) 12,646.4 (6) 4,201 (8) 9.3% (1) 1,178.3 (3) 0.4% (46) Delaware 10,264 (36) 10,540.5 (7) 422 (34) 4.1% (25) 433.4 (12) 0.5% (45) District Of Columbia 9,767 (37) 13,839.2 (5) 515 (29) 5.3% (13) 729.7 (6) 0.6% (41) Florida 75,568 (8) 3,518.4 (37) 2,934 (11) 3.9% (27) 136.6 (28) 2.7% (7) Georgia 57,681 (11) 5,432.7 (19) 2,451 (13) 4.2% (23) 230.8 (18) 1.6% (17) Hawaii 728 (49) 514.2 (51) 17 (50) 2.3% (42) 12.0 (51) 1.3% (26) Illinois 132,543 (4) 10,459.7 (8) 6,308 (4) 4.8% (17) 497.8 (9) 0.5% (44) Indiana 39,099 (17) 5,928.1 (18) 2,422 (14) 6.1% (9) 359.8 (13) 1.0% (36) Iowa 23,926 (24) 7,583.3 (12) 652 (27) 2.7% (38) 206.7 (21) 1.5% (19) Kansas 11,124 (35) 3,818.3 (33) 245 (37) 2.2% (44) 84.1 (39) 0.7% (40) Kentucky 12,445 (33) 2,785.6 (40) 499 (30) 4.0% (26) 111.7 (32) 1.2% (28) Maryland 61,701 (10) 10,205.8 (9) 2,939 (10) 4.8% (16) 4.8% (16) 486.1 (11) 0.9% (37)	1,672 (15) 23.0	(6) 1,672	2.9%	(50)	16.4	(45)	1.8%	(51)	12	(49)	903.6	(50)	661	Alaska
California 152,882 (3) 3,869.2 (32) 5,089 (7) 3.3% (30) 128.8 (29) 2.2% (11) Colorado 29,130 (21) 5,058.4 (22) 1,599 (16) 5.5% (11) 277.7 (15) 0.5% (43) Connecticut 45,088 (14) 12,646.4 (6) 4,201 (8) 9.3% (1) 1,178.3 (3) 0.4% (46) Delaware 10,264 (36) 10,540.5 (7) 422 (34) 4.1% (25) 433.4 (12) 0.5% (45) District Of Columbia 9,767 (37) 13,839.2 (5) 515 (29) 5.3% (13) 729.7 (6) 0.6% (41) Florida 75,568 (8) 3,518.4 (37) 2,934 (11) 3.9% (27) 136.6 (28) 2.7% (7) Georgia 57,681 (11) 5,432.7 (19) 2,451 (13) 4.2% (23) 230.8 (18) 1.6% (17) Hawaii 728 (49) 514.2 (51) 17 (50) 2.3% (42) 12.0 (51) 1.3% (26) Idaho 33,399 (43) 1,896.7 (44) 87 (44) 2.6% (39) 48.5 (45) 1.1% (30) Illinois 132,543 (4) 10,459.7 (8) 6,308 (4) 4.8% (17) 497.8 (9) 0.5% (40) Indiana 39,909 (17) 5,928.1 (18) 2,422 (14) 6.1% (9) 359.8 (13) 1.0% (36) Iowa 23,926 (24) 7,583.3 (12) 652 (27) 2.7% (38) 206.7 (21) 1.5% (19) Kansas 11,124 (35) 3,818.3 (33) 245 (37) 2.2% (44) 84.1 (39) 0.7% (40) Kentucky 12,445 (33) 2,785.6 (40) 499 (30) 4.0% (26) 111.7 (32) 1.2% (28) Maryland 61,701 (10) 10,205.8 (9) 2,939 (10) 4.8% (16) 486.1 (11) 0.9% (37)	1,107 (34) 176.8	(1) 1,107	4.8%	(23)	162.9	(31)	3.3%	(20)	1,186	(23)	4,903.5	(18)	35,691	Arizona
Colorado 29,130 (21) 5,058.4 (22) 1,599 (16) 5.5% (11) 277.7 (15) 0.5% (43) Connecticut 45,088 (14) 12,646.4 (6) 4,201 (8) 9.3% (1) 1,178.3 (3) 0.4% (46) Delaware 10,264 (36) 10,540.5 (7) 422 (34) 4.1% (25) 433.4 (12) 0.5% (45) District Of Columbia 9,767 (37) 13,839.2 (5) 515 (29) 5.3% (13) 729.7 (6) 0.6% (41) Florida 75,568 (8) 3,518.4 (37) 2,934 (11) 3.9% (27) 136.6 (28) 2.7% (7) Georgia 57,681 (11) 5,432.7 (19) 2,451 (13) 4.2% (23) 230.8 (18) 1.6% (17) Hawaii 728 (49) 514.2 (51) 17 (50) 2.3% (42) 210.0 (51) 1.3% (26) Idaho 3,399 (43) 1,896.7 (44) 87 (44) 2.6% (39) 48.5 (45) 1.1% (30) Illinois 132,543 (4) 10,459.7 (8) 6,308 (4) 4.8% (17) 497.8 (9) 0.5% (44) Indiana 39,909 (17) 5,928.1 (18) 2,422 (14) 6.1% (9) 359.8 (13) 1.0% (36) Iowa 23,926 (24) 7,583.3 (12) 652 (27) 2.7% (38) 266.7 (21) 1.5% (19) Kansas 11,124 (35) 3,818.3 (33) 245 (37) 2.2% (44) 84.1 (39) 0.7% (40) Kentucky 12,445 (33) 2,785.6 (40) 499 (30) 4.0% (26) 111.7 (32) 1.2% (28) Louisiana 46,619 (13) 10,028.2 (10) 3,019 (9) 6.5% (7) 649.4 (7) 1.3% (27) Maryland 61,701 (10) 10,205.8 (9) 2,939 (10) 4.8% (16) 486.1 (11) 0.9% (37)	1,738 (13) 141.7	(2) 1,738	4.4%	(43)	59.3	(48)	1.4%	(39)	179	(28)	4,142.4	(32)	12,501	Arkansas
Connecticut 45,088 (14) 12,646.4 (6) 4,201 (8) 9.3% (1) 1,178.3 (3) 0.4% (46) Delaware 10,264 (36) 10,540.5 (7) 422 (34) 4.1% (25) 433.4 (12) 0.5% (45) District Of Columbia 9,767 (37) 13,839.2 (5) 515 (29) 5.3% (13) 729.7 (6) 0.6% (41) Florida 75,568 (8) 3,518.4 (37) 2,934 (11) 3.9% (27) 136.6 (28) 2.7% (7) Georgia 57,681 (11) 5,432.7 (19) 2,451 (13) 4.2% (23) 230.8 (18) 1.6% (17) Hawaii 728 (49) 514.2 (51) 17 (50) 2.3% (42) 12.0 (51) 1.3% (26) Idaho 3,399 (43) 1,896.7 (44) 87 (44) 2.6% (39) 45.5 (45) 1.1% (30) Illinois 132,543 (4) 10,459.7 (8) 6,308 (4) 4.8% (17) 497.8 (9) 0.5% (44) Indiana 39,909 (17) 5,928.1 (18) 2,422 (14) 6.1% (9) 359.8 (13) 1.0% (36) Ilowa 23,926 (24) 7,583.3 (12) 652 (27) 2.7% (38) 206.7 (21) 1.5% (19) Kansas 11,124 (35) 3,818.3 (33) 245 (37) 2.2% (44) 84.1 (39) 0.7% (40) Kentucky 12,445 (33) 2,785.6 (40) 499 (30) 4.0% (26) 111.7 (32) 1.2% (28) Maryland 61,701 (10) 10,205.8 (9) 2,939 (10) 4.8% (16) 486.1 (11) 0.9% (37)	1,590 (18) 77.1	(11) 1,590	2.2%	(29)	128.8	(30)	3.3%	(7)	5,089	(32)	3,869.2	(3)	152,882	California
Delaware 10,264 (36) 10,540.5 (7) 422 (34) 4.1% (25) 433.4 (12) 0.5% (45) District Of Columbia 9,767 (37) 13,839.2 (5) 515 (29) 5.3% (13) 729.7 (6) 0.6% (41) Florida 75,568 (8) 3,518.4 (37) 2,934 (11) 3.9% (27) 136.6 (28) 2.7% (7) Georgia 57,681 (11) 5,432.7 (19) 2,451 (13) 4.2% (23) 230.8 (18) 1.6% (17) Hawaii 728 (49) 514.2 (51) 17 (50) 2.3% (42) 12.0 (51) 1.3% (26) Idaho 3,399 (43) 1,896.7 (44) 87 (44) 2.6% (39) 45.5 (45) 1.1% (30) Illinois 132,543 (4) 10,459.7 (8) 6,308 (4) 4.8% (17) 497.8 (9) 0.5% (44) Indiana 39,909 (17) 5,928.1 (18) 2,422 (14) 6.1% (9) 359.8 (13) 1.0% (36) Iowa 23,926 (24) 7,583.3 (12) 652 (27) 2.7% (38) 206.7 (21) 1.5% (19) Kansas 11,124 (35) 3,818.3 (33) 245 (37) 2.2% (44) 84.1 (39) 0.7% (40) Kentucky 12,445 (33) 2,785.6 (40) 499 (30) 4.0% (26) 111.7 (32) 1.2% (28) Louisiana 46,619 (13) 10,028.2 (10) 3,019 (9) 6.5% (7) 649.4 (7) 1.3% (21) Maryland 61,701 (10) 10,205.8 (9) 2,939 (10) 4.8% (16) 486.1 (11) 0.9% (37)	785 (44) 29.0	(43) 785	0.5%	(15)	277.7	(11)	5.5%	(16)	1,599	(22)	5,058.4	(21)	29,130	Colorado
District Of Columbia 9,767 (37) 13,839.2 (5) 515 (29) 5.3% (13) 729.7 (6) 0.6% (41) Florida 75,568 (8) 3,518.4 (37) 2,934 (11) 3.9% (27) 136.6 (28) 2.7% (7) Georgia 57,681 (11) 5,432.7 (19) 2,451 (13) 4.2% (23) 230.8 (18) 1.6% (17) Hawaii 728 (49) 514.2 (51) 17 (50) 2.3% (42) 12.0 (51) 1.3% (26) Idaho 3,399 (43) 1,896.7 (44) 87 (44) 2.6% (39) 48.5 (45) 1.1% (30) Illinois 132,543 (4) 10,459.7 (8) 6,308 (4) 4.8% (17) 497.8 (9) 0.5% (44) Indiana 39,909 (17) 5,928.1 (18) 2,422 (14) 6.1% (19) 359.8 (13) 1.0% (36) Iowa 23,926 (24) 7,583.3 (12) 652 (27) 2.7% (38) 206.7 (21) 1.5% (19) Kansas 11,124 (35) 3,818.3 (33) 245 (37) 2.2% (44) 84.1 (39) 0.7% (40) Kentucky 12,445 (33) 2,785.6 (40) 499 (30) 4.0% (26) 111.7 (32) 1.2% (28) Louisiana 46,619 (13) 10,028.2 (10) 3,019 (19) 6.5% (7) 649.4 (7) 1.3% (21) Maryland 61,701 (10) 10,205.8 (9) 2,939 (10) 4.8% (16) 486.1 (11) 0.9% (37)	1,873 (10) 47.1	(46) 1,873	0.4%	(3)	1,178.3	(1)	9.3%	(8)	4,201	(6)	12,646.4	(14)	45,088	Connecticut
Florida 75,568 (8) 3,518.4 (37) 2,934 (11) 3,9% (27) 136.6 (28) 2,7% (7) Georgia 57,681 (11) 5,432.7 (19) 2,451 (13) 4.2% (23) 230.8 (18) 1.6% (17) Hawaii 728 (49) 514.2 (51) 17 (50) 2,3% (42) 12.0 (51) 1,3% (26) Idaho 3,399 (43) 1,896.7 (44) 87 (44) 2.6% (39) 48.5 (45) 1,1% (30) Illinois 132,543 (4) 10,459.7 (8) 6,308 (4) 4.8% (17) 497.8 (9) 0.5% (44) Indiana 39,909 (17) 5,928.1 (18) 2,422 (14) 6.1% (9) 359.8 (13) 1.0% (36) Iowa 23,926 (24) 7,583.3 (12) 652 (27) 2,7% (38) 206.7 (21) 1.5% (19) Kansas 11,124 (35) 3,818.3 (33) 245 (37) 2,2% (44) 84.1 (39) 0.7% (40) Kentucky 12,445 (33) 2,785.6 (40) 499 (30) 4.0% (26) 111.7 (32) 1.2% (28) Iowisiana 46,619 (13) 10,028.2 (10) 3,019 (9) 6.5% (7) 649.4 (7) 1.3% (21) Maryland 61,701 (10) 10,205.8 (9) 2,939 (10) 4.8% (16) 486.1 (11) 0.9% (37)	1,876 (9) 56.3	(45) 1,876	0.5%	(12)	433.4	(25)	4.1%	(34)	422	(7)	10,540.5	(36)	10,264	Delaware
Georgia 57,681 (11) 5,432.7 (19) 2,451 (13) 4.2% (23) 230.8 (18) 1.6% (17) Hawaii 728 (49) 514.2 (51) 17 (50) 2.3% (42) 12.0 (51) 1.3% (26) Idaho 3,399 (43) 1,896.7 (44) 87 (44) 2.6% (39) 48.5 (45) 1.1% (30) Illinois 132,543 (4) 10,459.7 (8) 6,308 (4) 4.8% (17) 497.8 (9) 0.5% (44) Indiana 39,909 (17) 5,928.1 (18) 2,422 (14) 6.1% (9) 359.8 (13) 1.0% (36) Iowa 23,926 (24) 7,583.3 (12) 652 (27) 2.7% (38) 206.7 (21) 1.5% (19) Kansas 11,124 (35) 3,818.3 (33) 245 (37) 2.2% (44) 84.1 (39) 0.7% (40) Kentucky 12,445 (33) 2,785.6 (40) 499 (30) 4.0% (26) 111.7 (32) 1.2% (28) Louisiana 46,619 (13) 10,028.2 (10) 3,019 (9) 6.5% (7) 649.4 (7) 1.3% (21) Maine 2,793 (45) 2,077.8 (43) 100 (42) 3.6% (29) 74.4 (40) 1.4% (20) Maryland 61,701 (10) 10,205.8 (9) 2,939 (10) 4.8% (16) 486.1 (11) 0.9% (37)	2,021 (8) 89.1	(41) 2,021	0.6%	(6)	729.7	(13)	5.3%	(29)	515	(5)	13,839.2	(37)	9,767	District Of Columbia
Hawaii 728 (49) 514.2 (51) 17 (50) 2.3% (42) 12.0 (51) 1.3% (26) Idaho 3,399 (43) 1,896.7 (44) 87 (44) 2.6% (39) 48.5 (45) 1.1% (30) Illinois 132,543 (4) 10,459.7 (8) 6,308 (4) 4.8% (17) 497.8 (9) 0.5% (44) Indian 39,909 (17) 5,928.1 (18) 2,422 (14) 6.1% (9) 359.8 (13) 1.0% (36) Iowa 23,926 (24) 7,583.3 (12) 652 (27) 2.7% (38) 206.7 (21) 1.5% (19) Kansas 11,124 (35) 3,818.3 (33) 245 (37) 2.2% (44) 84.1 (39) 0.7% (40) Kentucky 12,445 (33) 2,785.6 (40) 499 (30) 4.0% (26) 111.7 (32) 1.2% (28) Louisiana 46,619 (13) 10,028.2 (10) 3,019 (9) 6.5% (7) 649.4 (7) 1.3% (21) Maine 2,793 (45) 2,077.8 (43) 100 (42) 3.6% (29) 74.4 (40) 1.4% (20) Maryland 61,701 (10) 10,205.8 (9) 2,939 (10) 4.8% (16) 486.1 (11) 0.9% (37)	1,283 (29) 72.1	(7) 1,283	2.7%	(28)	136.6	(27)	3.9%	(11)	2,934	(37)	3,518.4	(8)	75,568	Florida
Idaho 3,399 (43) 1,896.7 (44) 87 (44) 2,6% (39) 48.5 (45) 1.1% (30) Illinois 132,543 (4) 10,459.7 (8) 6,308 (4) 4.8% (17) 497.8 (9) 0.5% (44) Indiana 39,909 (17) 5,928.1 (18) 2,422 (14) 6.1% (9) 359.8 (13) 1.0% (36) Iowa 23,926 (24) 7,583.3 (12) 652 (27) 2.7% (38) 206.7 (21) 1.5% (19) Kansas 11,124 (35) 3,818.3 (33) 245 (37) 2.2% (44) 84.1 (39) 0.7% (40) Kentucky 12,445 (33) 2,785.6 (40) 499 (30) 4.0% (26) 111.7 (32) 1.2% (28) Louisiana 46,619 (13) 10,028.2 (10) 3,019 (9)	1,089 (36) 73.2	(17) 1,089	1.6%	(18)	230.8	(23)	4.2%	(13)	2,451	(19)	5,432.7	(11)	57,681	Georgia
Illinois 132,543 (4) 10,459.7 (8) 6,308 (4) 4.8% (17) 497.8 (9) 0.5% (44) Indiana 39,909 (17) 5,928.1 (18) 2,422 (14) 6.1% (9) 359.8 (13) 1.0% (36) Iowa 23,926 (24) 7,583.3 (12) 652 (27) 2.7% (38) 206.7 (21) 1.5% (19) Kansas 11,124 (35) 3,818.3 (33) 245 (37) 2.2% (44) 84.1 (39) 0.7% (40) Kentucky 12,445 (33) 2,785.6 (40) 499 (30) 4.0% (26) 111.7 (32) 1.2% (28) Louisiana 46,619 (13) 10,028.2 (10) 3,019 (9) 6.5% (7) 649.4 (7) 1.3% (21) Maine 2,793 (45) 2,077.8 (43) 100 (42) 3.6% (29) 74.4 (40) 1.4% (20) Maryland 61,701 (10) 10,205.8 (9) 2,939 (10) 4.8% (16) 486.1 (11) 0.9% (37)	632 (47) 5.0	(26) 632	1.3%	(51)	12.0	(42)	2.3%	(50)	17	(51)	514.2	(49)	728	Hawaii
Indiana 39,909 (17) 5,928.1 (18) 2,422 (14) 6.1% (9) 359.8 (13) 1.0% (36) Iowa 23,926 (24) 7,583.3 (12) 652 (27) 2.7% (38) 206.7 (21) 1.5% (19) Kansas 11,124 (35) 3,818.3 (33) 245 (37) 2.2% (44) 84.1 (39) 0.7% (40) Kentucky 12,445 (33) 2,785.6 (40) 499 (30) 4.0% (26) 111.7 (32) 1.2% (28) Louisiana 46,619 (13) 10,028.2 (10) 3,019 (9) 6.5% (7) 649.4 (7) 1.3% (21) Maine 2,793 (45) 2,077.8 (43) 100 (42) 3.6% (29) 74.4 (40) 1.4% (20) Maryland 61,701 (10) 10,026.8 (9) 2,939 (10) <td>553 (49) 20.7</td> <td>(30) 553</td> <td>1.1%</td> <td>(45)</td> <td>48.5</td> <td>(39)</td> <td>2.6%</td> <td>(44)</td> <td>87</td> <td>(44)</td> <td>1,896.7</td> <td>(43)</td> <td>3,399</td> <td>Idaho</td>	553 (49) 20.7	(30) 553	1.1%	(45)	48.5	(39)	2.6%	(44)	87	(44)	1,896.7	(43)	3,399	Idaho
Iowa 23,926 (24) 7,583.3 (12) 652 (27) 2.7% (38) 206.7 (21) 1.5% (19) Kansas 11,124 (35) 3,818.3 (33) 245 (37) 2.2% (44) 84.1 (39) 0.7% (40) Kentucky 12,445 (33) 2,785.6 (40) 499 (30) 4.0% (26) 111.7 (32) 1.2% (28) Louisiana 46,619 (13) 10,028.2 (10) 3,019 (9) 6.5% (7) 649.4 (7) 1.3% (21) Maine 2,793 (45) 2,077.8 (43) 100 (42) 3.6% (29) 74.4 (40) 1.4% (20) Maryland 61,701 (10) 10,205.8 (9) 2,939 (10) 4.8% (16) 486.1 (11) 0.9% (37)	1,681 (14) 56.2	(44) 1,681	0.5%	(9)	497.8	(17)	4.8%	(4)	6,308	(8)	10,459.7	(4)	132,543	Illinois
Kansas 11,124 (35) 3,818.3 (33) 245 (37) 2.2% (44) 84.1 (39) 0.7% (40) (40) (40) (40) (40) (40) (40) (40)	936 (41) 54.0	(36) 936	1.0%	(13)	359.8	(9)	6.1%	(14)	2,422	(18)	5,928.1	(17)	39,909	Indiana
Kentucky 12,445 (33) 2,785.6 (40) 499 (30) 4.0% (26) 111.7 (32) 1.2% (28) Louisiana 46,619 (13) 10,028.2 (10) 3,019 (9) 6.5% (7) 649.4 (7) 1.3% (21) Maine 2,793 (45) 2,077.8 (43) 100 (42) 3.6% (29) 74.4 (40) 1.4% (20) Maryland 61,701 (10) 10,205.8 (9) 2,939 (10) 4.8% (16) 486.1 (11) 0.9% (37)	1,650 (16) 101.4	(19) 1,650	1.5%	(21)	206.7	(38)	2.7%	(27)	652	(12)	7,583.3	(24)	23,926	Iowa
Louisiana 46,619 (13) 10,028.2 (10) 3,019 (9) 6.5% (7) 649.4 (7) 1.3% (21) Maine 2,793 (45) 2,077.8 (43) 100 (42) 3.6% (29) 74.4 (40) 1.4% (20) Maryland 61,701 (10) 10,205.8 (9) 2,939 (10) 4.8% (16) 486.1 (11) 0.9% (37)	760 (45) 32.2	(40) 760	0.7%	(39)	84.1	(44)	2.2%	(37)	245	(33)	3,818.3	(35)	11,124	Kansas
Maine 2,793 (45) 2,077.8 (43) 100 (42) 3.6% (29) 74.4 (40) 1.4% (20) Maryland 61,701 (10) 10,205.8 (9) 2,939 (10) 4.8% (16) 486.1 (11) 0.9% (37)	1,456 (24) 37.0	(28) 1,456	1.2%	(32)	111.7	(26)	4.0%	(30)	499	(40)	2,785.6	(33)	12,445	Kentucky
Maryland 61,701 (10) 10,205.8 (9) 2,939 (10) 4.8% (16) 486.1 (11) 0.9% (37)	2,313 (4) 116.7	(21) 2,313	1.3%	(7)	649.4	(7)	6.5%	(9)	3,019	(10)	10,028.2	(13)	46,619	Louisiana
	1,157 (33) 24.8	(20) 1,157	1.4%	(40)	74.4	(29)	3.6%	(42)	100	(43)	2,077.8	(45)	2,793	Maine
Massachusetts 105.603 (5) 15.195.8 (3) 7.624 (3) 7.2% (6) 1.097.1 (4) 0.3% (47)	1,193 (32) 90.3	(37) 1,193	0.9%	(11)	486.1	(16)	4.8%	(10)	2,939	(9)	10,205.8	(10)	61,701	Maryland
	1,238 (30) 46.5	(47) 1,238	0.3%	(4)	1,097.1	(6)	7.2%	(3)	7,624	(3)	15,195.8	(5)	105,603	Massachusetts
Michigan 66,054 (9) 6,614.1 (14) 6,016 (6) 9.1% (2) 602.4 (8) 0.3% (49)	1,470 (23) 26.5	(49) 1,470	0.3%	(8)	602.4	(2)	9.1%	(6)	6,016	(14)	6,614.1	(9)	66,054	Michigan
Minnesota 30,471 (19) 5,403.0 (20) 1,329 (18) 4.4% (22) 235.7 (16) 1.3% (22)	1,862 (11) 67.7	(22) 1,862	1.3%	(16)	235.7	(22)	4.4%	(18)	1,329	(20)	5,403.0	(19)	30,471	Minnesota
Mississippi 19,516 (26) 6,557.5 (15) 891 (23) 4.6% (19) 299.4 (14) 1.5% (18)	519 (50) 111.1	(18) 519	1.5%	(14)	299.4	(19)	4.6%	(23)	891	(15)	6,557.5	(26)	19,516	Mississippi

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Comparative Statistics- Page 2 of 2

"Strategic Guidance in an Era of Unprecedented Change"

As of June 14

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	16,428	(29)	2,676.7	(41)	895	(22)	5.4%	(12)	145.8	(27)	1.2%	(27)	899	(43)	29.1	(41)
Montana	601	(51)	562.3	(50)	19	(48)	3.2%	(33)	17.8	(49)	1.6%	(16)	1,541	(21)	6.3	(50)
Nebraska	16,725	(28)	8,646.1	(11)	216	(38)	1.3%	(49)	111.7	(33)	1.0%	(32)	1,207	(31)	80.5	(12)
Nevada	11,173	(34)	3,627.4	(35)	464	(32)	4.2%	(24)	150.6	(26)	2.2%	(12)	1,619	(17)	68.9	(19)
New Hampshire	5,318	(42)	3,911.1	(30)	320	(36)	6.0%	(10)	235.3	(17)	0.7%	(39)	1,304	(27)	29.4	(40)
New Jersey	169,441	(2)	19,076.5	(2)	12,733	(2)	7.5%	(5)	1,433.5	(2)	0.3%	(50)	2,207	(6)	57.3	(23)
New Mexico	9,723	(38)	4,637.0	(24)	435	(33)	4.5%	(20)	207.5	(20)	1.3%	(25)	2,033	(7)	55.9	(26)
New York	404,470	(1)	20,791.6	(1)	30,911	(1)	7.6%	(3)	1,589.0	(1)	0.2%	(51)	3,207	(1)	44.1	(32)
North Carolina	44,263	(15)	4,220.3	(27)	1,132	(21)	2.6%	(40)	107.9	(34)	3.5%	(5)	1,579	(19)	110.7	(7)
North Dakota	3,080	(44)	4,041.7	(29)	74	(46)	2.4%	(41)	97.1	(35)	1.2%	(29)	1,302	(28)	45.4	(31)
Ohio	41,193	(16)	3,524.1	(36)	2,562	(12)	6.2%	(8)	219.2	(19)	1.0%	(33)	943	(40)	33.1	(37)
Oklahoma	8,231	(39)	2,080.1	(42)	359	(35)	4.4%	(21)	90.7	(36)	2.3%	(10)	1,050	(38)	36.6	(35)
Oregon	5,535	(41)	1,312.3	(47)	174	(40)	3.1%	(34)	41.3	(47)	2.1%	(13)	603	(48)	29.6	(39)
Pennsylvania	83,299	(7)	6,506.7	(16)	6,290	(5)	7.6%	(4)	491.3	(10)	0.6%	(42)	701	(46)	38.8	(33)
Rhode Island	15,947	(30)	15,053.4	(4)	833	(24)	5.2%	(14)	786.3	(5)	0.3%	(48)	2,802	(2)	68.2	(20)
South Carolina	18,795	(27)	3,650.4	(34)	600	(28)	3.2%	(32)	116.5	(31)	4.3%	(3)	291	(51)	112.1	(5)
South Dakota	5,898	(40)	6,667.0	(13)	75	(45)	1.3%	(50)	84.8	(38)	1.3%	(24)	1,334	(25)	75.3	(14)
Tennessee	30,432	(20)	4,453.6	(26)	475	(31)	1.6%	(47)	69.5	(41)	2.0%	(14)	2,435	(3)	72.5	(17)
Texas	89,242	(6)	3,077.7	(39)	1,996	(15)	2.2%	(43)	68.8	(42)	2.5%	(9)	963	(39)	64.4	(22)
Utah	14,313	(31)	4,464.5	(25)	139	(41)	1.0%	(51)	43.4	(46)	2.6%	(8)	1,326	(26)	97.3	(9)
Vermont	1,127	(47)	1,806.1	(46)	55	(47)	4.9%	(15)	88.1	(37)	0.8%	(38)	2,235	(5)	18.1	(48)
Virginia	54,506	(12)	6,385.8	(17)	1,546	(17)	2.8%	(37)	181.1	(22)	1.0%	(31)	1,493	(22)	74.8	(15)
Washington	26,573	(22)	3,489.6	(38)	1,221	(19)	4.6%	(18)	160.3	(24)	1.0%	(35)	930	(42)	34.6	(36)
West Virginia	2,290	(46)	1,281.4	(48)	88	(43)	3.8%	(28)	49.2	(44)	1.0%	(34)	1,550	(20)	11.0	(49)
Wisconsin	22,758	(25)	3,908.7	(31)	692	(26)	3.0%	(35)	118.9	(30)	1.3%	(23)	1,801	(12)	47.8	(28)
Wyoming	1,060	(48)	1,831.5	(45)	18	(49)	1.7%	(46)	31.1	(48)	1.8%	(15)	1,065	(37)	27.4	(43)
United States	2,162,228		6,532.4		117,858		5.5%		329.7		1.1%		1,423		67.3	

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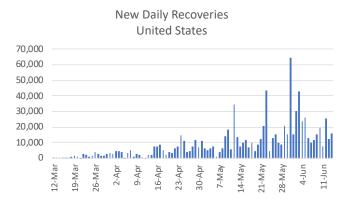
UNDER-REPORTED RECOVERIES? POSSIBLE LAG IN STATE REPORTING



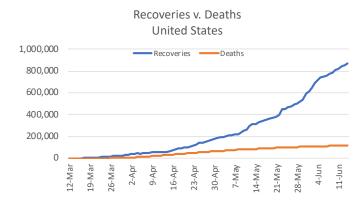
United States

Recoveries

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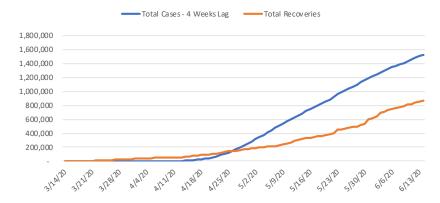


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Total Cases - 4-Week Lag v. Total Recoveries





Recoveries

Reporting of Recoveries Seems to Be Lagging

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At this point, we should be expecting far more recoveries in the U.S.

Comparing the reported recoveries to Total Cases 4 weeks ago*, this shortfall is ~350-500k

* - 4 weeks is the presumed time from infection-onset to recovery referenced by many states

Charles	Recoveries	Expected R	ecoveries	Chaha	Recoveries	Expected
State	Recoveries	Low	High	State	Recoveries	Low
Alabama	13,508	9,417	10,594	Montana	510	374
Alaska	411	317	356	Nebraska	10,121	8,278
Arizona	6,333	11,150	12,543	Nevada	8,038	5,486
Arkansas	8,110	3,807	4,283	New Hampshire	3,987	2,877
California	40,545	64,212	72,239	New Jersey	32,904	118,558
Colorado	2,569	17,550	19,744	New Mexico	4,114	4,750
Connecticut	8,596	29,935	33,677	New York	86,001	287,878
Delaware	6,172	6,136	6,903	North Carolina	23,653	14,927
District Of Columbia	1,143	5,698	6,411	North Dakota	2,658	1,520
lorida	14,745	36,470	41,029	Ohio	8,553	22,343
Georgia	1,446	30,161	33,931	Oklahoma	6,578	4,248
lawaii	629	512	576	Oregon	2,396	2,898
daho	2,837	1,935	2,177	Pennsylvania	56,472	52,653
llinois	83,806	75,353	84,772	Rhode Island	1,435	10,139
ndiana	28,522	22,222	25,000	South Carolina	8,682	7,053
owa	14,383	11,721	13,186	South Dakota	4,899	3,190
Cansas	6,127	6,361	7,156	Tennessee	19,896	13,910
Centucky	3,409	6,150	6,919	Texas	58,341	38,942
ouisiana.	33,904	27,546	30,989	Utah	8,252	5,790
∕laine	2,173	1,350	1,518	Vermont	909	752
Maryland	4,541	31,043	34,924	Virginia	7,178	24,310
Massachusetts	84,621	68,808	77,409	Washington	8,629	15,426
/lichigan	44,964	40,914	46,028	West Virginia	1,578	1,192
Minnesota	26,090	12,534	14,101	Wisconsin	16,558	10,034
Aississippi –	13,356	9,037	10,166	Wyoming	834	603
Missouri	3,699	8,846	9,951			
				United States	870,050	1,222,131

Low = 80% of Total Cases 4 week ago High = 90% of Total Cases 4 week ago - States seemingly up-to-date with reporting recoveries States only reporting~ 1/2 expected recoveries States well-behind in reporting recoveries



VIRUS PROGRESSION: ROADMAP TO RECOVERY



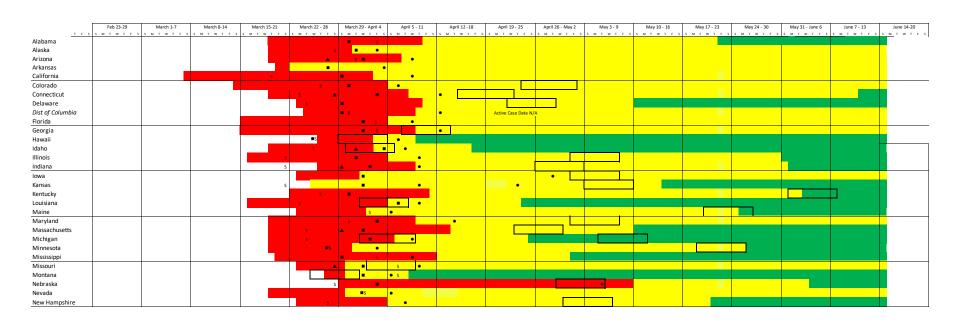
Virus Progression

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The graphic on the following two pages illustrates when the state first recorded 100 total cases (start of the "contagion" phase); when growth stopped following an exponential pattern (start of the "containment" phase); and, when peak total cases were recorded (start of the "recovery" phase). It uses symbols to indicate when average daily case growth rates fell (and were sustained) below certain benchmarks, as well as when deaths stopped growing exponentially.

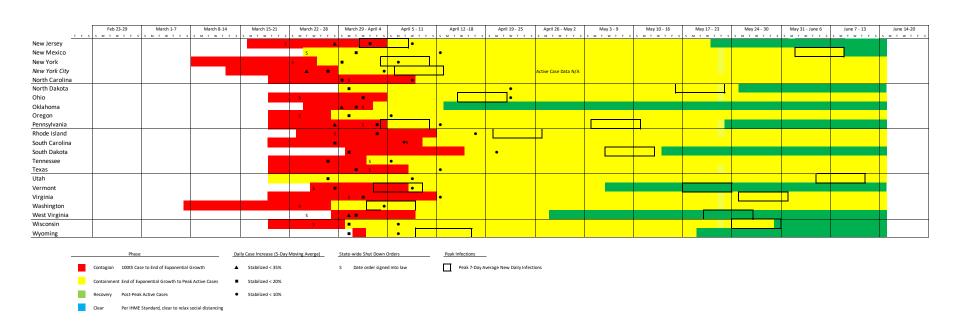
A state is not shaded green until active cases appear to have peaked.





Legend on following page







STATE TEST, INFECTION AND CASE TRENDS



Test, New Daily Infection and Active Case Trends

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On Mondays, Wednesday and Fridays we provide graphics relevant to judging how far a state (or the District of Columbia) has progressed against the virus. Seventeen states (or, sixteen and D.C.) are presented at a time. Today, we provide:

- Alabama
- Alaska
- Arizona
- Arkansas
- California
- Colorado
- Connecticut
- Delaware
- District of Columbia

- Florida
- Georgia
- Hawaii
- Idaho
- Illinois
- Indiana
- lowa
- Kansas

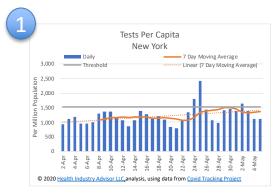


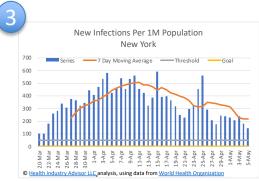
Test, New Daily Infection and Active Case Trends

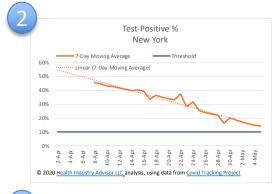
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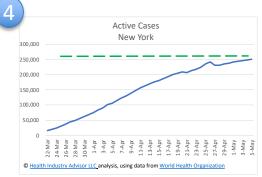
How to "read" these charts:

- Chart 1 Desire to see tests per capita:
 - Above the threshold
 - Increasing or stable
- Chart 2 Desire to see Test-Positive %:
 - · Below the threshold
 - Declining or stable
- Chart 3 Desire to see New Infections Per Capita:
 - Below the threshold
 - Declining or stable
- Chart 4 Desire to see Active Cases:
 - Declining





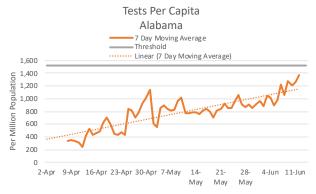




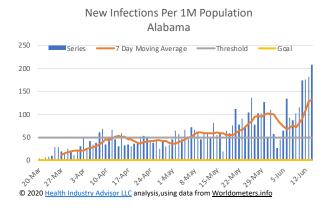


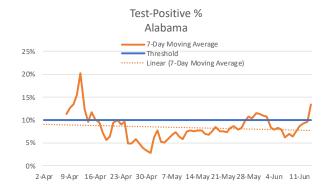
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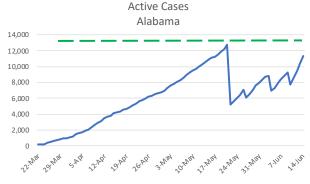








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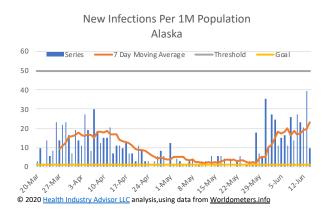


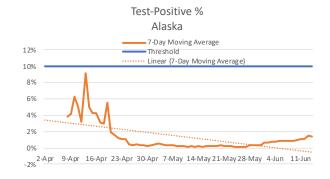
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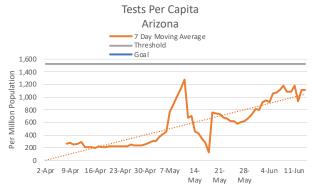
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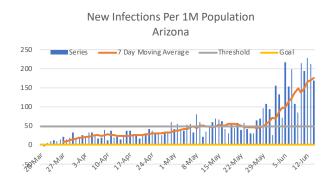


Test, New Daily Infection and Active Case Trends

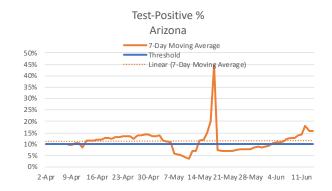
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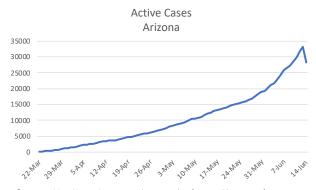
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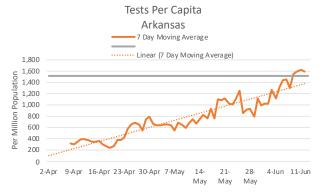
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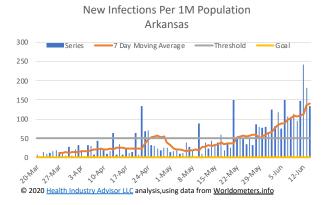


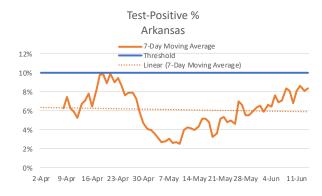
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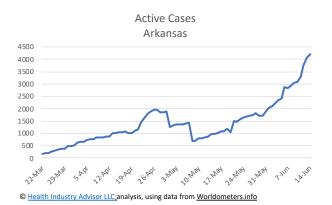


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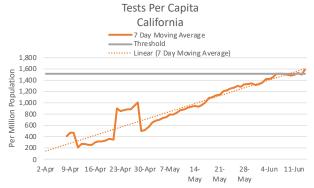
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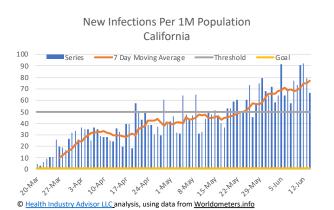


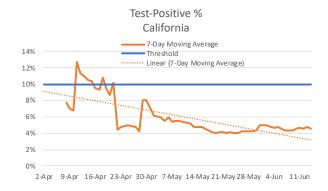
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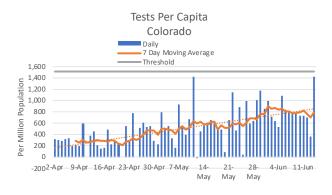


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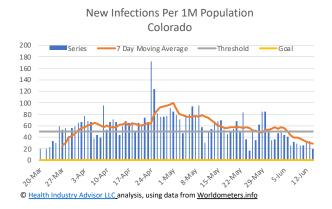


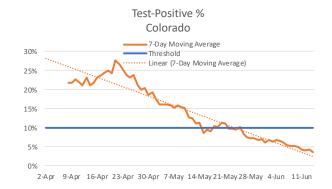
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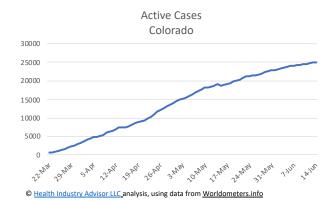
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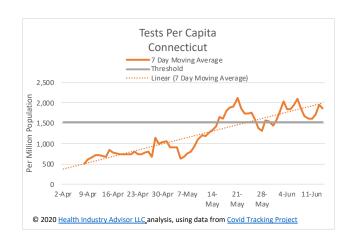


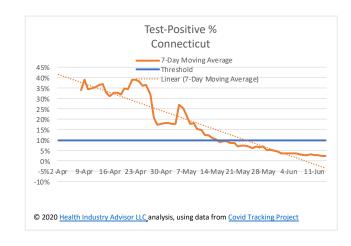


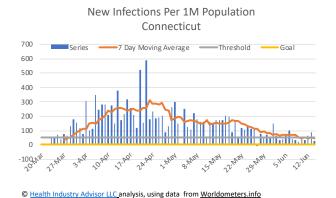


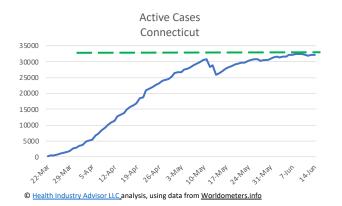


Test, New Daily Infection and Active Case Trends





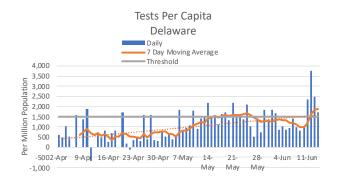




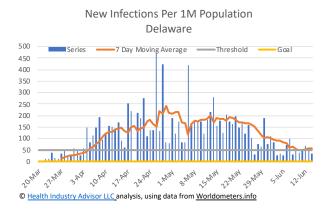


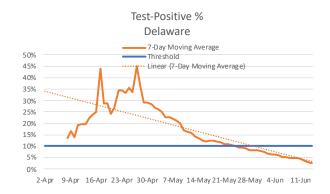
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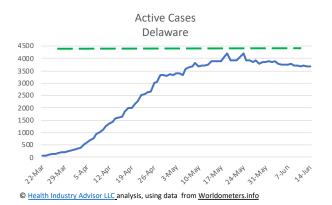
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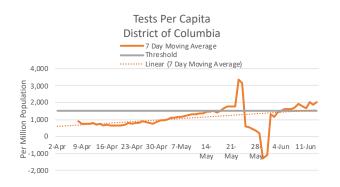




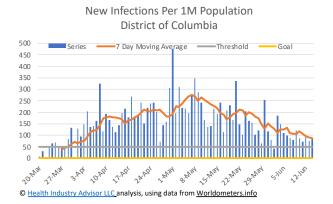


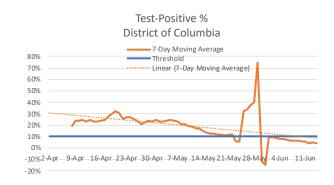
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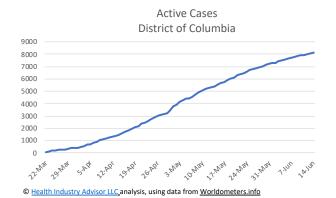
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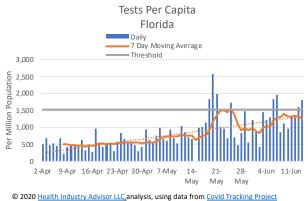


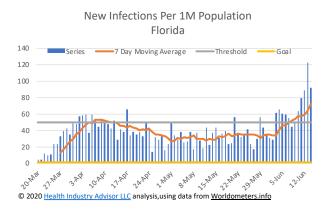


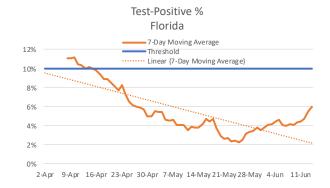


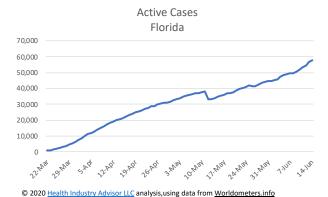
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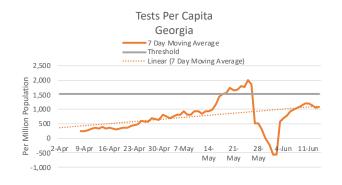




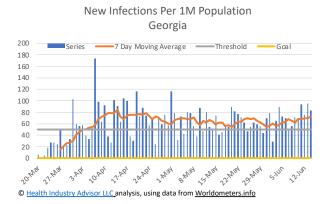


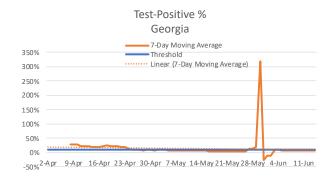
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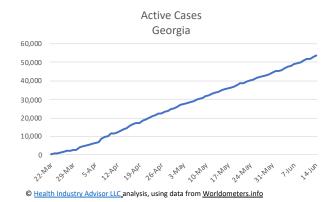
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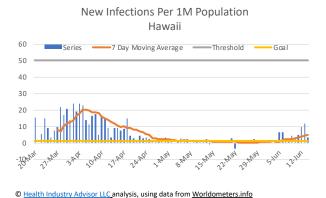


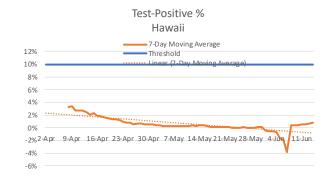
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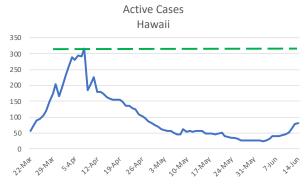
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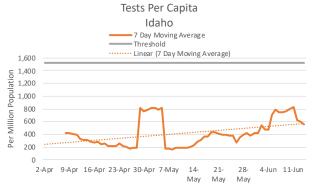




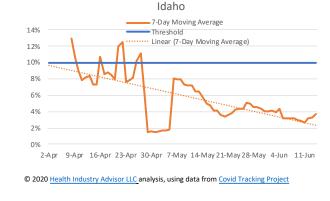


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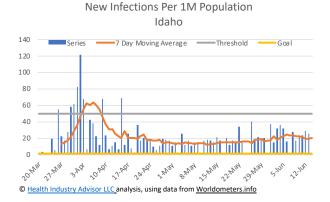
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Test-Positive %

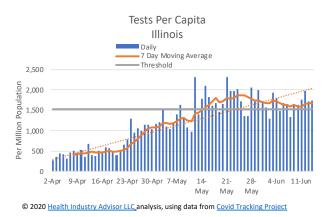




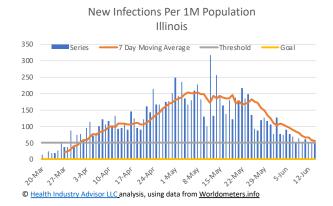
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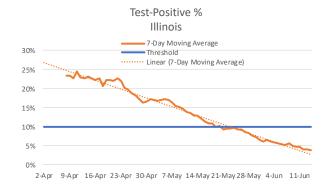


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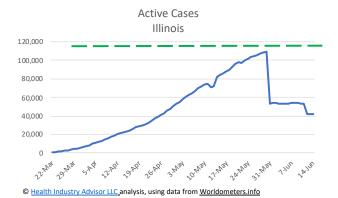






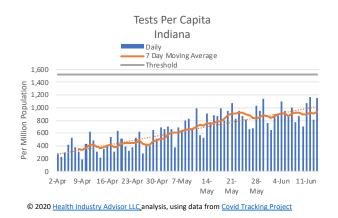


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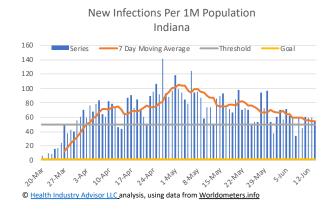


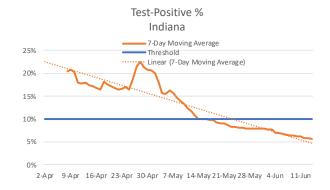


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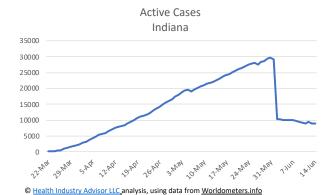






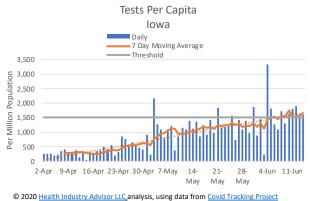


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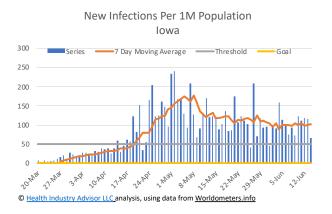


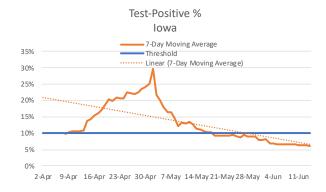


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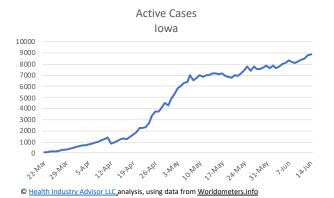








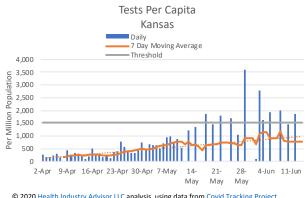
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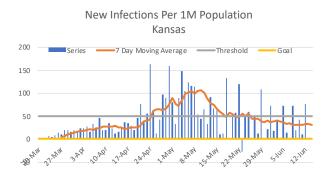


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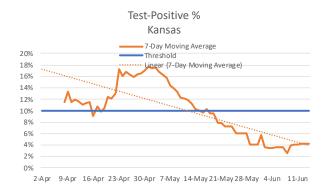
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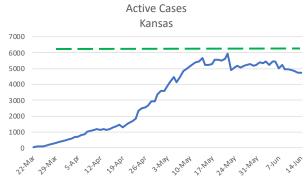
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