

COVID-19 Dashboard

Issue # 87
Saturday, June 27, 2020

Day's Highlights

"Strategic Guidance in an Era of Unprecedented Change"

Measure	Desired Change	Yesterday in the U.S.
Number of Tests	Increase	>>640,000 on Thursday; >600,000 on Friday
Test-Positivity Rate	Decline	6.5% test-positive on Thursday; 7.4% on Friday; 6.4% for past 7 days
Number of Cases	Plateau	Cases increased 43.5% week-over-week – concentrated in 6 states
Deaths % of Total Cases	Decline	5.0%
Number of Deaths / 1M Population	Plateau	385.6
Recoveries : Death	Increase	8.37

- Of course, we must begin with the surge in new cases. What began in earnest on June 12, accelerated during the past two days, with 42,000 new cases on Thursday and 48,000 on Friday. Prior to June 12, a typical day would see about 20,000 new cases
- Testing the past two days has been the highest ever: > 640,000 on Thursday and >600,000 on Friday. Test-positive rates are up to 6.4% for the week but, still below the 10% upper limit suggested by the World Health Organization
- The death rate dropped again and is now at 5.0% cumulatively
- As has been the pattern, these new cases are concentrated in a few states. Four states accounted for nearly 50% of the 254,000 new cases during the past week: California and Texas each accounted for 14%, Florida for 13%, and Arizona, 8%. Reports from many of these states point to a rising incidence of cases among younger people
 - Arizona's and Texas' growth in infection rates appears to be a combination of true infection spread and increased testing
 - Florida's growth appears to be due to increased infection spread
 - California's growth seems to be driven mostly by increased testing
 - None of the 4 states have seen a material shift in the relatively low death rates, yet
 - Outside of Arizona, California, Florida and Texas, the United States experience has been stable for the month of June
- While this resurgence of the virus is troublesome, it is still a stretch to equate the current experience in Arizona, California and Texas, for example, to that of New York, New Jersey and Connecticut during the height of the crisis. The states currently in crisis are testing at a much greater rate, have lower test-positive rates and are seeing cases grow more slowly than those states hit hardest in March and April. It is reasonable to conclude that these states currently in crisis have better visibility to the virus spread and are capturing a higher % of infections
- For the United States in total, cases, tests rates and test-positive rates had each been exhibiting positive (encouraging) trends since the end of March. New cases, however, clearly have turned upward in early June
 - Some of this can be attributed to increased virus spread, as evidenced by an uptick in test-positive rate
 - This perspective is further evidenced by a modest uptick in hospitalized patients
 - Still, there has been a decline in the % of serious or critical patients, as well as in the death rate, indicating that the severity of identified cases is diminishing
 - Also, while the number of new cases is greater than ever, not all of it is due to increased virus spread – increased testing, especially of less severe and asymptomatic cases is also behind the increase
- Generally, in states reporting these data, the % of ICU patients and patients on ventilators to total COVID-19 patients has been declining over time.

ANALYZING TRENDS IN THE CONCENTRATION & SEVERITY OF THE VIRUS

State-By-State Infection & Testing Trends

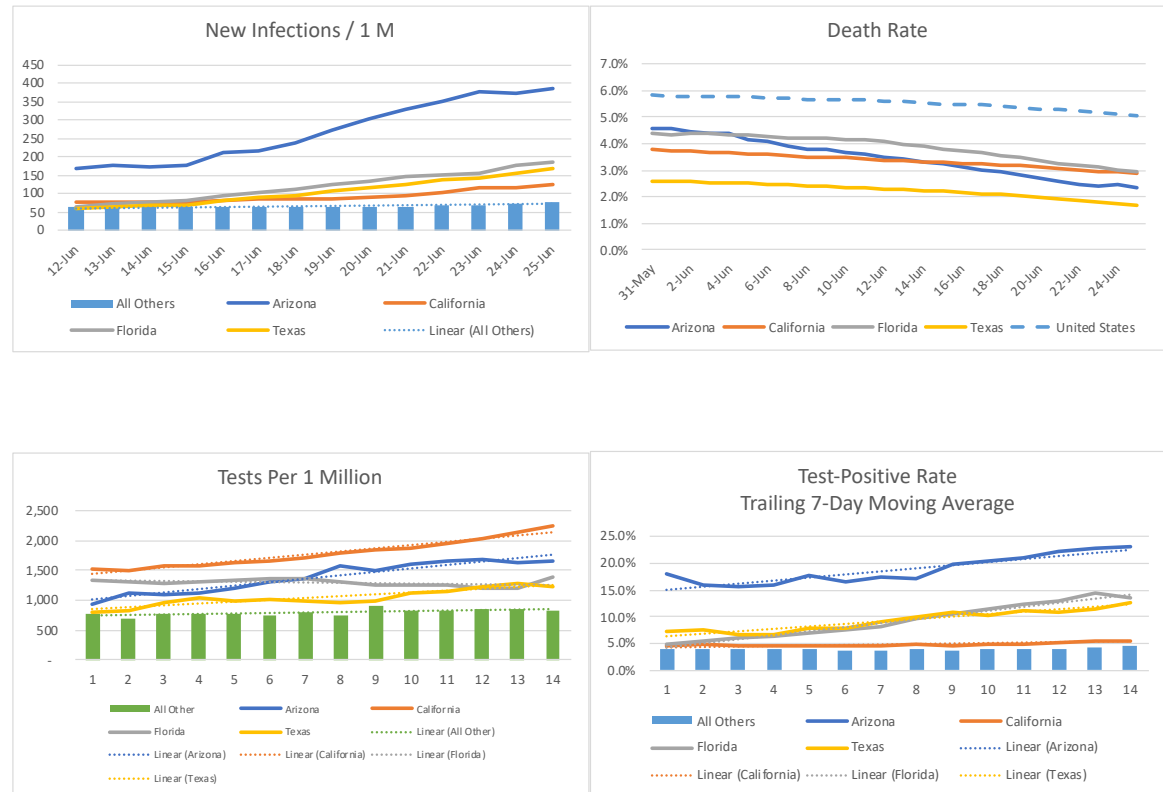
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Arizona, California, Florida & Texas:

- Increasing new infection rates, while rest of country is stable
- Lower death rate / case; declining across the board
- Higher testing rate per capita & increasing; rest of the country is level
- Higher test-positive rate & increasing; rest of the country is stable

Observations from the data:

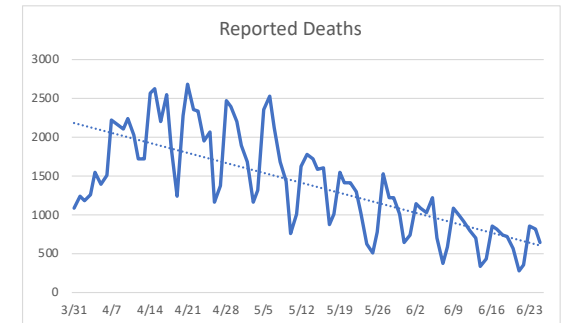
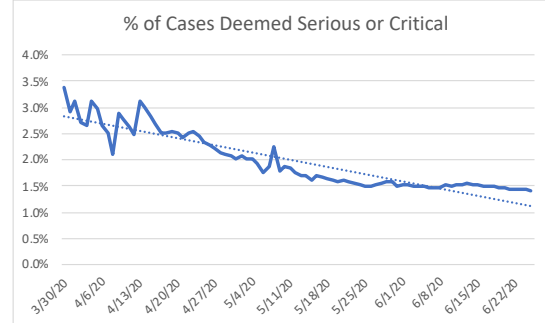
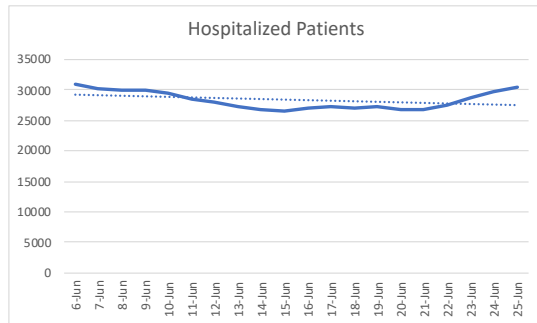
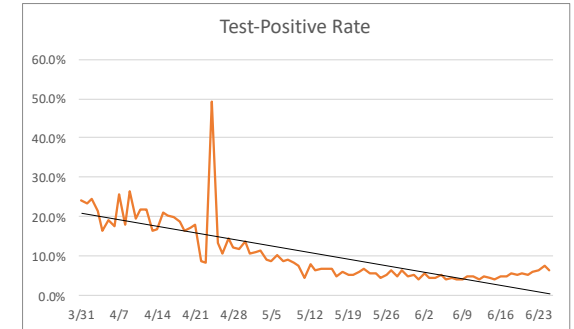
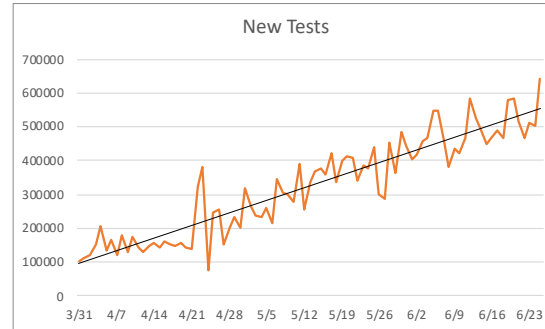
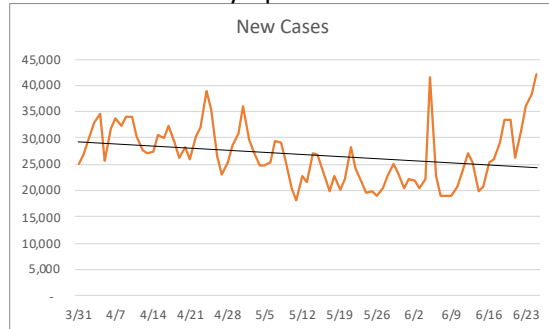
- Outside of Arizona, California, Florida and Texas, the United States experience has been stable for the month of June
- Arizona's and Texas' growth in infection rates is a combination of true infection spread and increased testing
- Florida's is mostly due to increased infection spread
- California's growth seems to be driven mostly by increased testing
- None of the 4 states have seen a material shift in the relatively low death rates, yet



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Observations:

- Each metric has been demonstrating a positive trend since the end of March
- Clearly, new cases turned upward in early June
 - Some of this can be attributed to increased virus spread, as evidenced by the uptick in test-positive rate
 - Also, evidenced by uptick in hospitalized patients
- Still, the % of serious or critical patients, as well as the on-going decline in death rate indicates that the severity of the identified cases is diminishing
- Also, while the number of new cases is greater than ever, not all of it is due to increased virus spread – increased testing, especially of less severe and asymptomatic cases is also behind the increase

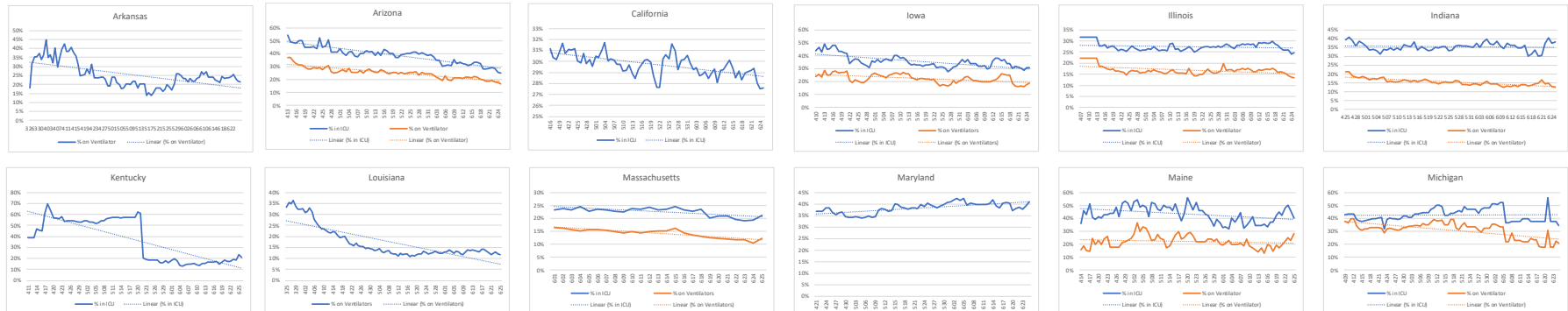


Data sourced from Worldometers.info and the Atlantic's Covid Tracking Project

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Observations:

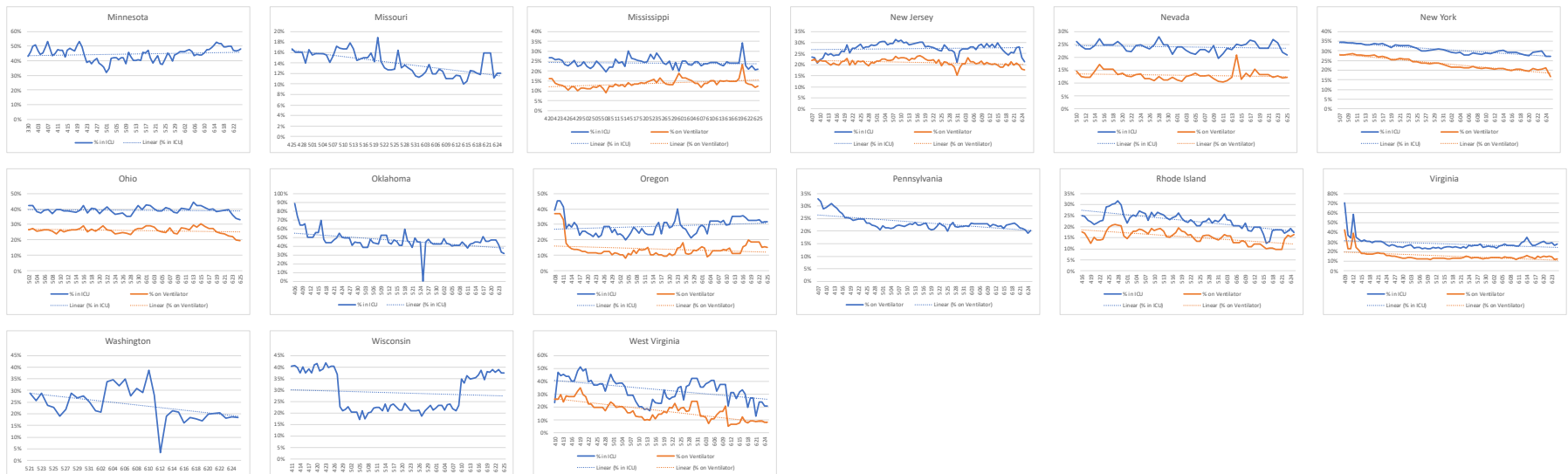
- Generally, the % of ICU patients and patients on ventilators to total COVID-19 patients has been declining over time
- Suggests some combination of:
 - Improved care delivery, given better knowledge of what works and doesn't
 - Identifying cases earlier, before complications develop
 - Shift in mix toward persons with lower risk profiles
- Further, since this runs counter to increased case volume, suggests that more asymptomatic and less severe cases are being identified



Data sourced from the Atlantic's Covid Tracking Project

State-By-State Trends in % of ICU & Ventilator Patients (2 of 2)

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Data sourced from the Atlantic's Covid Tracking Project

UNITED STATES & STATE-BY-STATE INFORMATION

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:

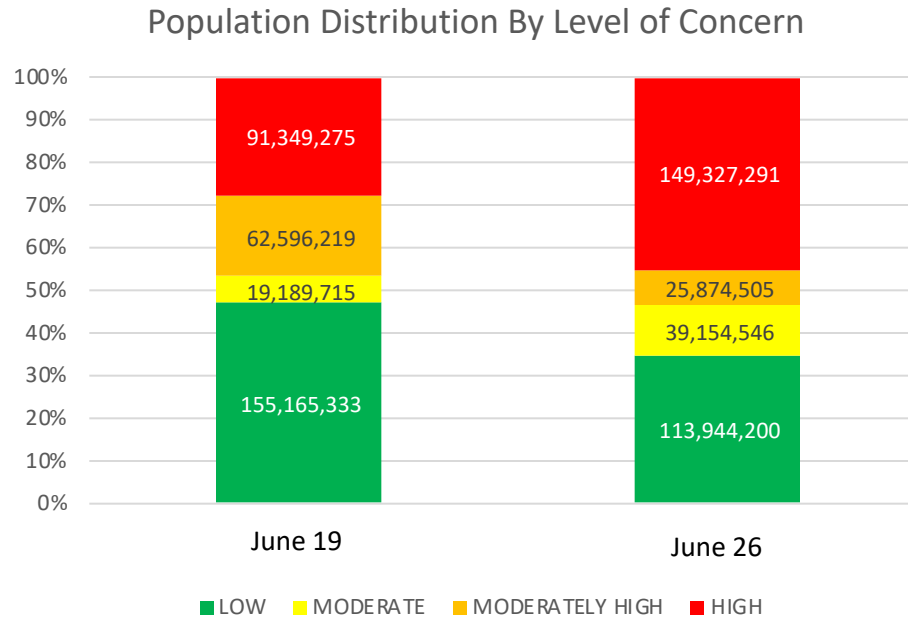
- Current rate of new infections, relative to its peak (is it declining or near its peak?)
- Test-positive rate
- Rate of change in cases
- Hospitalized patients v. its peak

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)



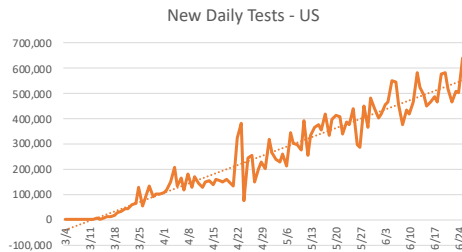
State-By-State Population Distribution By Level of Concern

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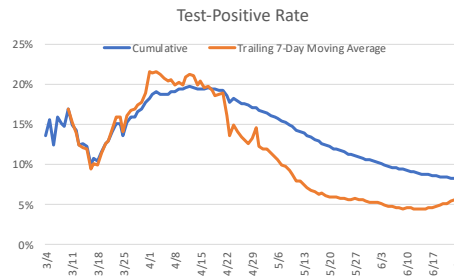


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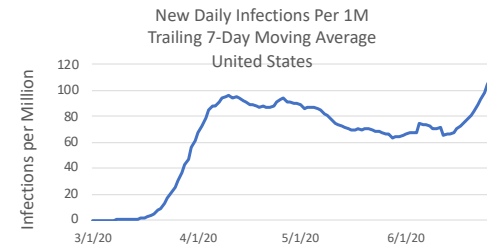
With significantly increased testing, the US is now meeting the WHO standard of <10% test-positives. This suggests that asymptomatic cases are being captured and that we have a better view of true infection rates. Further, new daily infections continue to decline; the death rate seems to have stabilized.



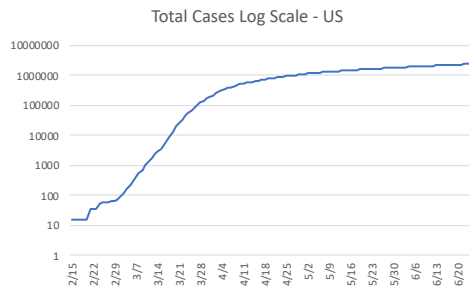
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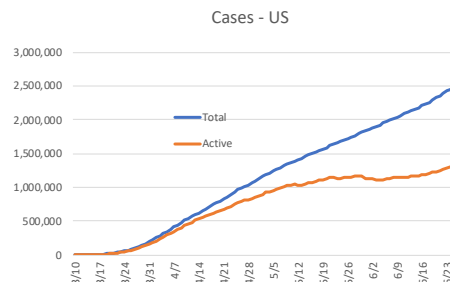
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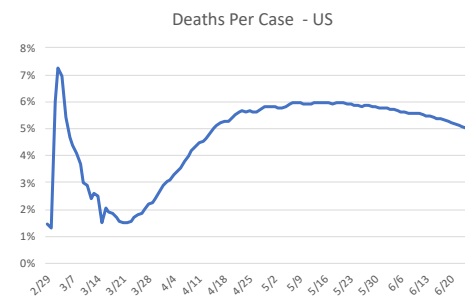
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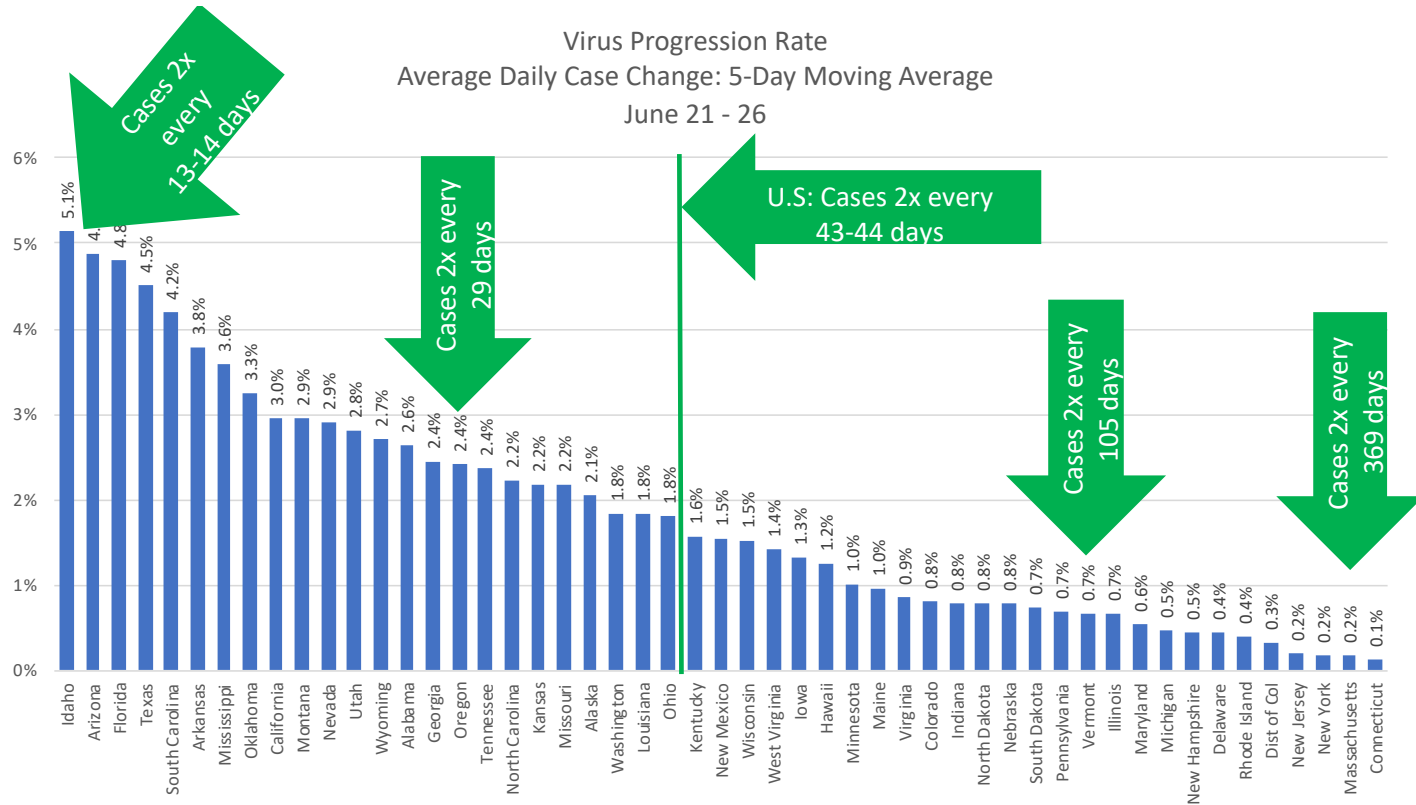


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State-by-State Average Daily Case Growth

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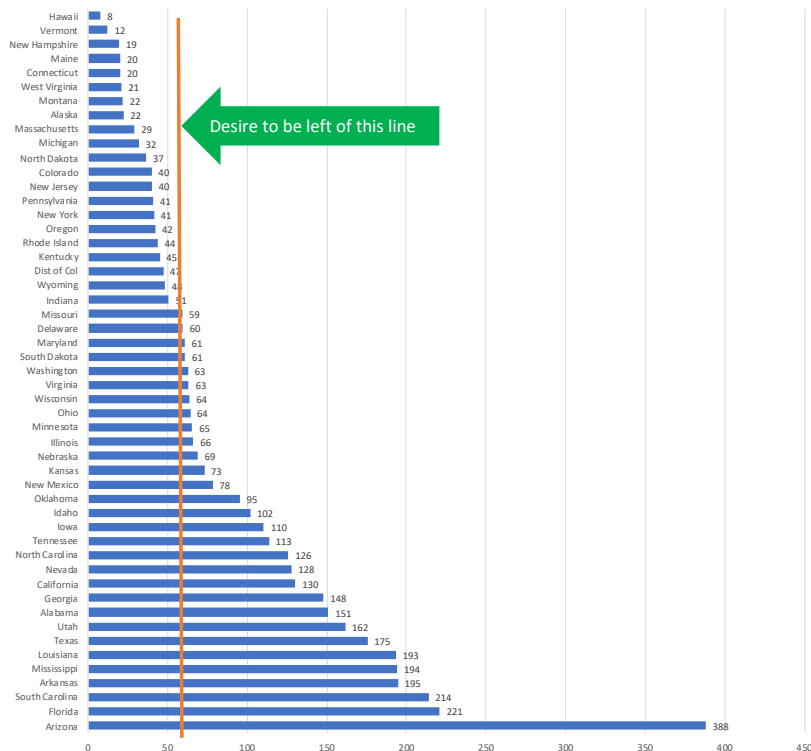
At the height of the epidemic, cases in some states were doubling every few days. Now, they would take from 12 – 573 days to double



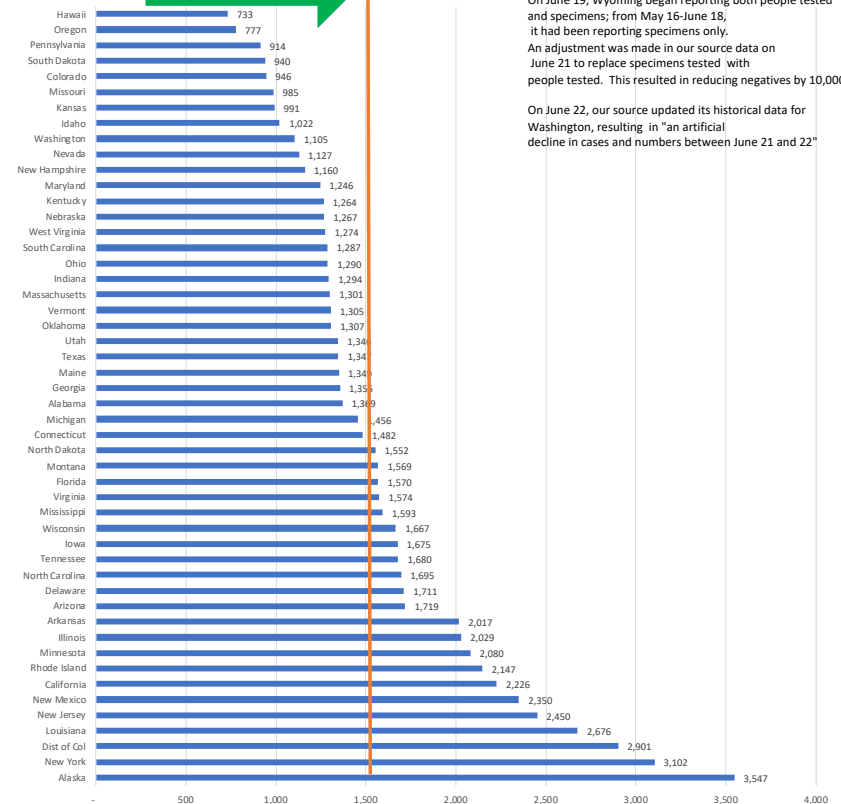
State-by-State New Daily Infections & Tests Per Capita

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New Daily Infections Per 1 Million Population
By State
June 19 - 26



Daily Tests Per 1 Million Population
By State
June 19- 26



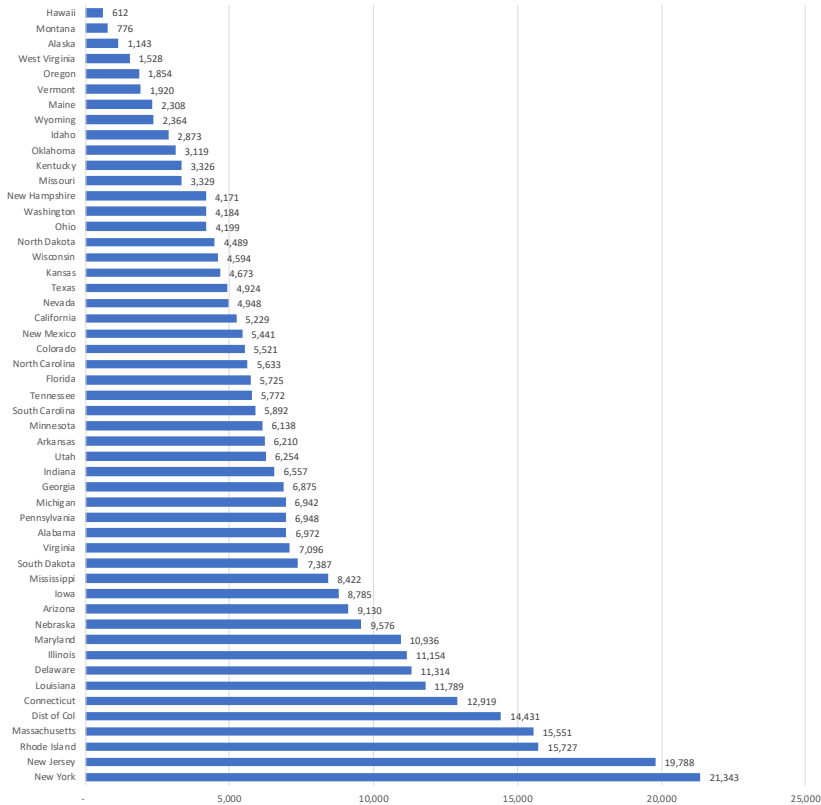
On June 19, Wyoming began reporting both people tested and specimens; from May 16-June 18, it had been reporting specimens only. An adjustment was made in our source data on June 21 to replace specimens tested with people tested. This resulted in reducing negatives by 10,000.

On June 22, our source updated its historical data for Washington, resulting in "an artificial decline in cases and numbers between June 21 and 22"

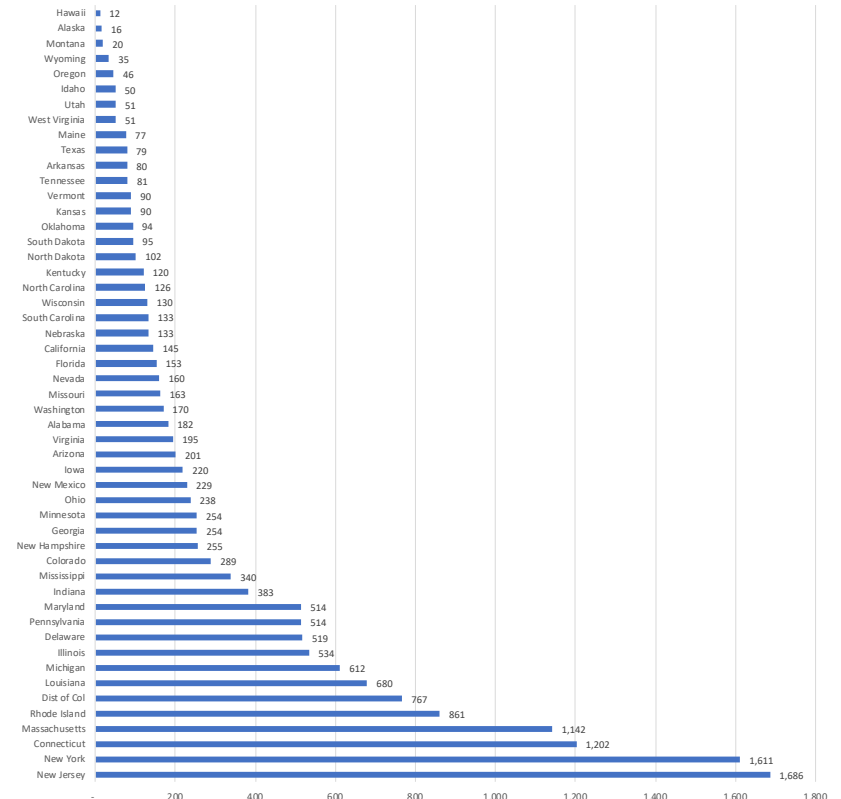
State-by-State Cases & Deaths Per Capita

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Total Cases Per 1 Million Population
By State
As of June 26



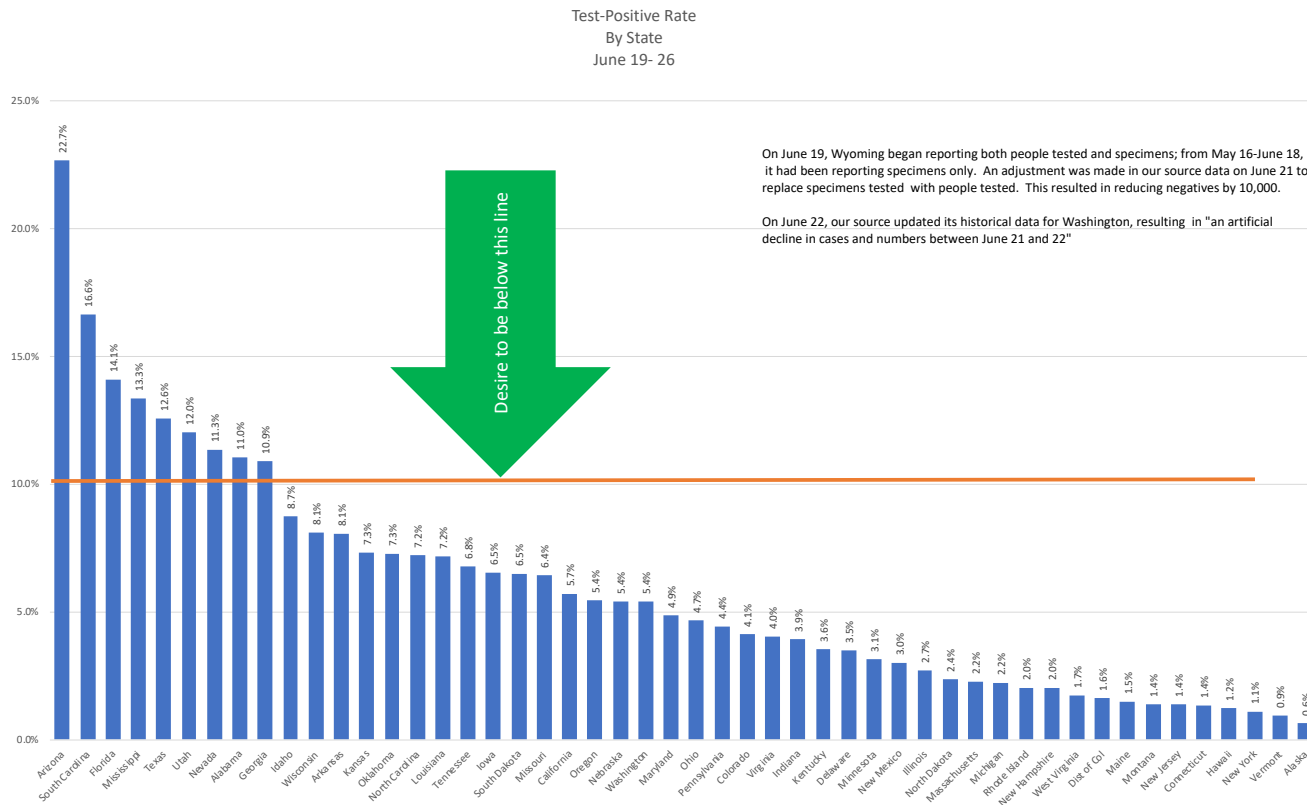
Deaths Per 1 Million Population
By State
As of June 26



Which States Are Performing Sufficient Tests?

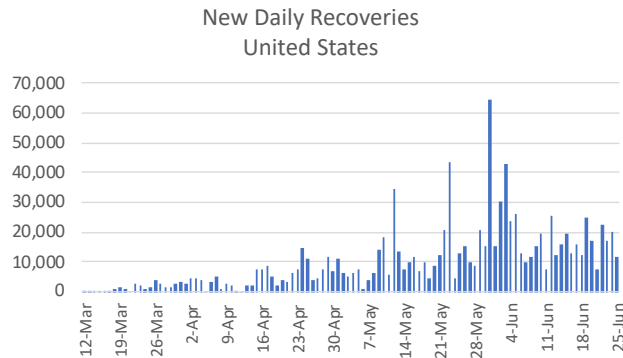
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The [World Health Organization](#) suggested that the test-positive rate should be 10% or lower, for testing to be sufficient to assess the true prevalence of the virus. Several states failed to meet this guideline for the past week

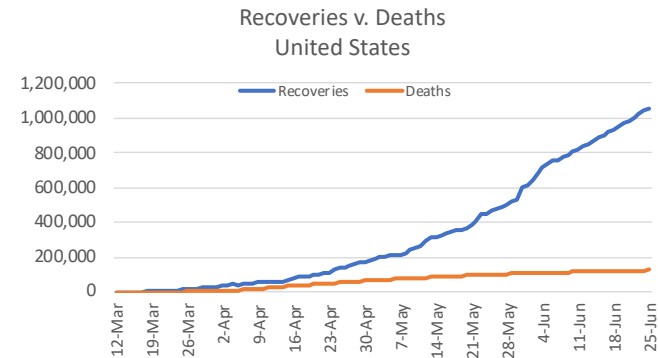


UNDER-REPORTED RECOVERIES? POSSIBLE LAG IN STATE REPORTING

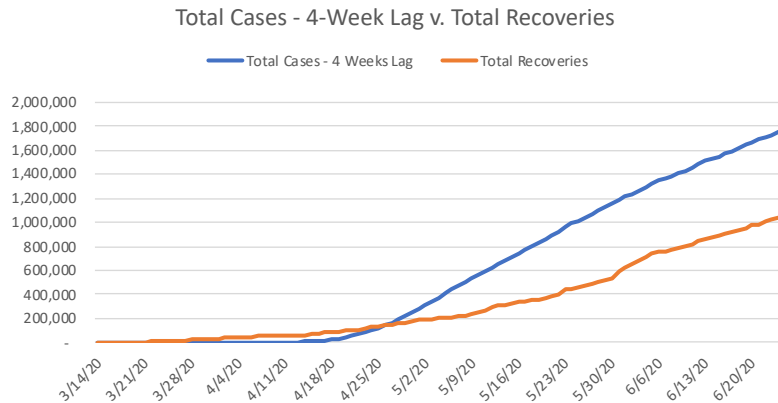
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Which states seem to be lagging in reporting?

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 ~380-560k

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

State	Recoveries	Expected Recoveries	
		Low	High
Alabama	18,866	13,625	15,328
Alaska	519	344	387
Arizona	8,389	14,772	16,619
Arkansas	12,784	5,422	6,099
California	57,108	85,395	96,070
Colorado	6,477	20,490	23,052
Connecticut	9,569	33,410	37,586
Delaware	6,661	7,389	8,312
District Of Columbia	1,186	6,830	7,684
Florida	21,651	43,598	49,047
Georgia	7,089	36,690	41,277
Hawaii	705	519	584
Idaho	3,827	2,242	2,523
Illinois	107,270	93,964	105,710
Indiana	33,396	26,846	30,202
Iowa	17,345	15,165	17,060
Kansas	8,379	7,811	8,788
Kentucky	3,730	7,571	8,518
Louisiana	39,792	31,047	34,928
Maine	2,542	1,781	2,003
Maryland	4,903	40,790	45,889
Massachusetts	91,404	76,410	85,961
Michigan	49,290	45,297	50,959
Minnesota	30,008	18,825	21,178
Mississippi	17,242	11,832	13,311
Missouri	4,102	10,518	11,832

State	Recoveries	Expected Recoveries	
		Low	High
Montana	589	394	444
Nebraska	12,698	10,923	12,289
Nevada	10,545	6,680	7,515
New Hampshire	4,381	3,594	4,043
New Jersey	41,296	129,618	145,821
New Mexico	5,149	5,994	6,744
New York	87,889	302,171	339,943
North Carolina	37,705	21,479	24,164
North Dakota	3,090	2,016	2,268
Ohio	11,567	27,700	31,163
Oklahoma	8,817	5,070	5,704
Oregon	2,649	3,305	3,718
Pennsylvania	66,590	60,062	67,570
Rhode Island	1,600	11,708	13,172
South Carolina	13,456	8,905	10,018
South Dakota	5,652	3,893	4,379
Tennessee	25,753	17,668	19,877
Texas	76,282	49,701	55,913
Utah	11,097	7,411	8,338
Vermont	941	780	878
Virginia	7,868	34,026	38,280
Washington	10,321	17,678	19,887
West Virginia	2,002	1,578	1,775
Wisconsin	21,174	14,166	15,936
Wyoming	1,033	713	802
United States	1,068,703	1,447,369	1,628,290

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

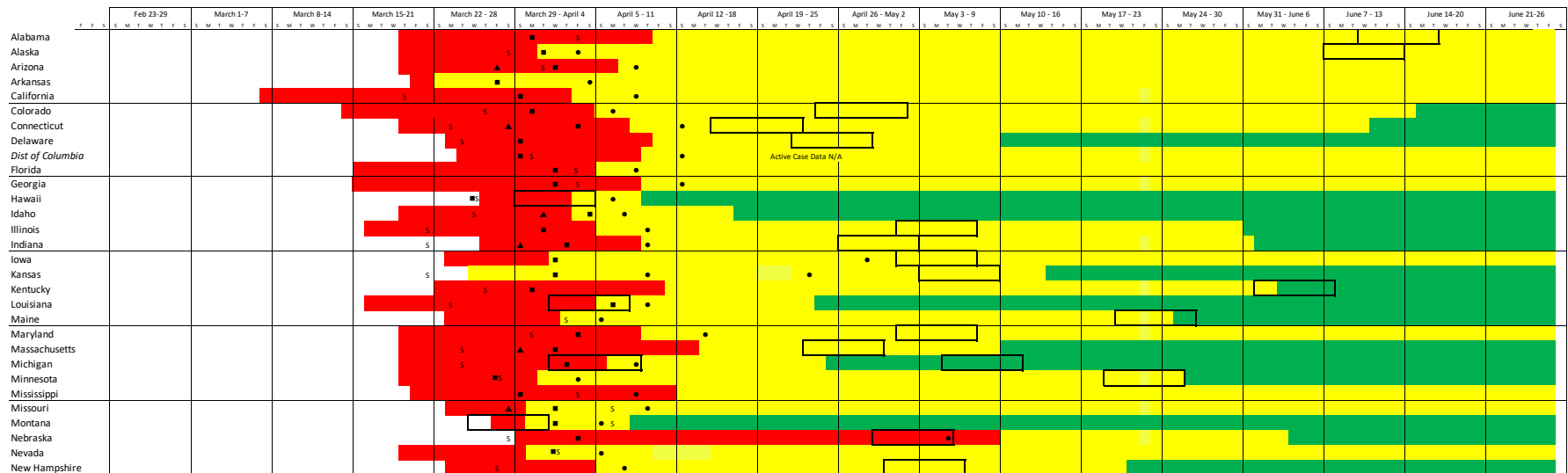
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The graphic on the following two pages illustrates when the state first recorded 100 total cases (start of the "contagion" phase); when growth stopped following an exponential pattern (start of the "containment" phase); and, when peak total cases were 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.

State-by-State Virus Progression – 1 of 2

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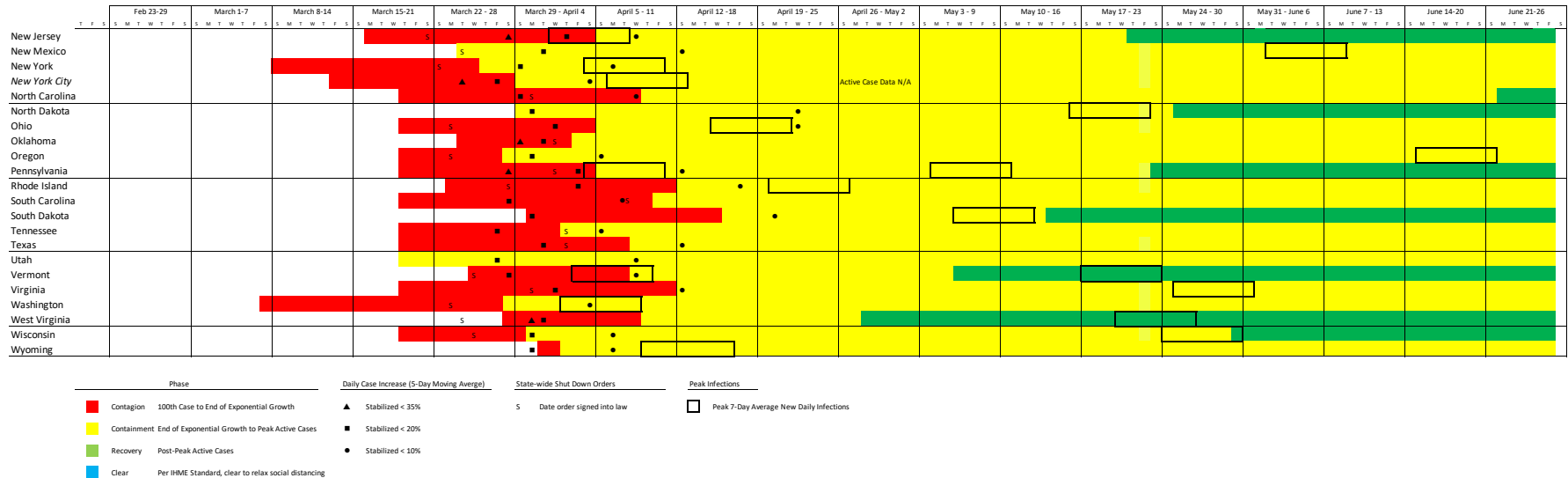
Note: Many states are in yellow because they fail to keep up-to-date in reporting recovered patients

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State-by-State Virus Progression – 2 of 2

“Strategic Guidance in an Era of Unprecedented Change”



Note: Many states are in yellow because they fail to keep up-to-date in reporting recovered patients

As of June 26

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	34,183	(21)	6,971.6	(17)	907	(25)	2.7%	(34)	185.0	(24)	2.6%	(14)	1,369	(25)	145.7	(9)
Alaska	836	(50)	1,142.8	(49)	14	(51)	1.7%	(44)	19.1	(50)	2.1%	(21)	3,547	(1)	21.1	(45)
Arizona	66,458	(11)	9,130.5	(12)	1,535	(18)	2.3%	(37)	210.9	(22)	4.9%	(2)	1,719	(12)	384.4	(1)
Arkansas	18,740	(30)	6,209.8	(23)	249	(39)	1.3%	(50)	82.5	(41)	3.8%	(6)	2,017	(11)	195.7	(3)
California	206,623	(2)	5,229.3	(31)	5,872	(7)	2.8%	(30)	148.6	(29)	3.0%	(9)	2,226	(7)	122.9	(12)
Colorado	31,796	(23)	5,521.4	(29)	1,673	(17)	5.3%	(13)	290.5	(15)	0.8%	(34)	946	(46)	39.1	(40)
Connecticut	46,059	(17)	12,918.7	(6)	4,307	(8)	9.4%	(1)	1,208.0	(3)	0.1%	(51)	1,482	(23)	19.4	(49)
Delaware	11,017	(38)	11,313.8	(8)	507	(32)	4.6%	(18)	520.7	(10)	0.4%	(45)	1,711	(13)	70.6	(19)
District Of Columbia	10,185	(39)	14,431.5	(5)	546	(31)	5.4%	(12)	773.6	(6)	0.3%	(47)	2,901	(3)	51.8	(31)
Florida	122,960	(6)	5,725.0	(27)	3,366	(9)	2.7%	(32)	156.7	(28)	4.8%	(3)	1,570	(20)	186.9	(4)
Georgia	72,995	(9)	6,875.0	(20)	2,770	(13)	3.8%	(23)	260.9	(17)	2.4%	(15)	1,355	(26)	137.0	(10)
Hawaii	866	(49)	611.6	(51)	17	(50)	2.0%	(41)	12.0	(51)	1.2%	(30)	733	(50)	9.0	(51)
Idaho	5,148	(43)	2,872.7	(43)	90	(44)	1.7%	(43)	50.2	(46)	5.1%	(1)	1,022	(43)	89.4	(17)
Illinois	141,344	(5)	11,154.2	(9)	7,048	(4)	5.0%	(14)	556.2	(9)	0.7%	(41)	2,029	(10)	52.5	(30)
Indiana	44,140	(18)	6,556.5	(21)	2,595	(14)	5.9%	(8)	385.5	(13)	0.8%	(35)	1,294	(33)	47.0	(33)
Iowa	27,716	(25)	8,784.6	(13)	704	(27)	2.5%	(36)	223.1	(21)	1.3%	(29)	1,675	(16)	110.3	(14)
Kansas	13,613	(35)	4,672.7	(34)	266	(38)	2.0%	(42)	91.3	(38)	2.2%	(19)	991	(44)	67.5	(21)
Kentucky	14,859	(34)	3,325.9	(41)	553	(30)	3.7%	(24)	123.8	(34)	1.6%	(25)	1,264	(38)	45.4	(34)
Louisiana	54,804	(15)	11,788.9	(7)	3,197	(10)	5.8%	(9)	687.7	(7)	1.8%	(23)	2,676	(4)	149.3	(8)
Maine	3,102	(45)	2,307.7	(45)	103	(42)	3.3%	(26)	76.6	(43)	1.0%	(32)	1,349	(27)	20.4	(46)
Maryland	66,115	(12)	10,935.9	(10)	3,142	(11)	4.8%	(16)	519.7	(11)	0.6%	(42)	1,246	(39)	60.2	(26)
Massachusetts	108,070	(7)	15,550.8	(4)	8,013	(3)	7.4%	(6)	1,153.0	(4)	0.2%	(50)	1,301	(32)	29.1	(43)
Michigan	69,329	(10)	6,942.0	(19)	6,134	(6)	8.8%	(2)	614.2	(8)	0.5%	(43)	1,456	(24)	31.3	(42)
Minnesota	34,616	(20)	6,138.0	(24)	1,446	(19)	4.2%	(20)	256.4	(18)	1.0%	(31)	2,080	(9)	62.0	(25)
Mississippi	25,066	(27)	8,422.3	(14)	1,022	(22)	4.1%	(22)	343.4	(14)	3.6%	(7)	1,593	(18)	186.0	(5)

As of June 26

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	20,432	(28)	3,329.1	(40)	1,016	(23)	5.0%	(15)	165.5	(26)	2.2%	(20)	985	(45)	64.4	(22)
Montana	829	(51)	775.7	(50)	22	(48)	2.7%	(33)	20.6	(49)	2.9%	(10)	1,569	(21)	19.8	(47)
Nebraska	18,524	(31)	9,576.1	(11)	266	(38)	1.4%	(48)	137.5	(30)	0.8%	(37)	1,267	(37)	68.8	(20)
Nevada	15,240	(33)	4,947.8	(32)	498	(33)	3.3%	(27)	161.7	(27)	2.9%	(11)	1,127	(41)	129.1	(11)
New Hampshire	5,671	(42)	4,170.7	(39)	365	(36)	6.4%	(7)	268.4	(16)	0.5%	(44)	1,160	(40)	19.8	(48)
New Jersey	175,759	(3)	19,787.8	(2)	15,057	(2)	8.6%	(3)	1,695.2	(1)	0.2%	(48)	2,450	(5)	40.0	(38)
New Mexico	11,408	(37)	5,440.6	(30)	489	(34)	4.3%	(19)	233.2	(20)	1.5%	(26)	2,350	(6)	70.8	(18)
New York	415,207	(1)	21,343.5	(1)	31,421	(1)	7.6%	(4)	1,615.2	(2)	0.2%	(49)	3,102	(2)	42.9	(36)
North Carolina	59,080	(14)	5,633.1	(28)	1,347	(20)	2.3%	(40)	128.4	(33)	2.2%	(18)	1,695	(14)	118.4	(13)
North Dakota	3,421	(44)	4,489.1	(36)	78	(46)	2.3%	(39)	102.4	(35)	0.8%	(36)	1,552	(22)	37.5	(41)
Ohio	49,077	(16)	4,198.5	(37)	2,812	(12)	5.7%	(10)	240.6	(19)	1.8%	(24)	1,290	(34)	59.1	(28)
Oklahoma	12,343	(36)	3,119.3	(42)	377	(35)	3.1%	(28)	95.3	(37)	3.3%	(8)	1,307	(30)	93.7	(16)
Oregon	7,818	(40)	1,853.6	(47)	202	(40)	2.6%	(35)	47.9	(47)	2.4%	(16)	777	(49)	40.7	(37)
Pennsylvania	88,948	(8)	6,948.0	(18)	6,640	(5)	7.5%	(5)	518.7	(12)	0.7%	(39)	914	(48)	39.6	(39)
Rhode Island	16,661	(32)	15,727.4	(3)	927	(24)	5.6%	(11)	875.1	(5)	0.4%	(46)	2,147	(8)	50.0	(32)
South Carolina	30,335	(24)	5,891.8	(25)	694	(28)	2.3%	(38)	134.8	(31)	4.2%	(5)	1,287	(35)	207.4	(2)
South Dakota	6,535	(41)	7,387.0	(15)	88	(45)	1.3%	(49)	99.5	(36)	0.7%	(38)	940	(47)	59.7	(27)
Tennessee	39,444	(19)	5,772.4	(26)	577	(29)	1.5%	(46)	84.4	(40)	2.4%	(17)	1,680	(15)	108.8	(15)
Texas	142,766	(4)	4,923.7	(33)	2,367	(15)	1.7%	(45)	81.6	(42)	4.5%	(4)	1,347	(28)	169.9	(6)
Utah	20,050	(29)	6,254.0	(22)	166	(41)	0.8%	(51)	51.8	(44)	2.8%	(12)	1,346	(29)	157.5	(7)
Vermont	1,198	(48)	1,919.9	(46)	56	(47)	4.7%	(17)	89.7	(39)	0.7%	(40)	1,305	(31)	12.8	(50)
Virginia	60,570	(13)	7,096.2	(16)	1,700	(16)	2.8%	(31)	199.2	(23)	0.9%	(33)	1,574	(19)	62.1	(24)
Washington	31,863	(22)	4,184.3	(38)	1,305	(21)	4.1%	(21)	171.4	(25)	1.8%	(22)	1,105	(42)	63.9	(23)
West Virginia	2,730	(46)	1,527.6	(48)	92	(43)	3.4%	(25)	51.5	(45)	1.4%	(28)	1,274	(36)	22.1	(44)
Wisconsin	26,747	(26)	4,593.8	(35)	766	(26)	2.9%	(29)	131.6	(32)	1.5%	(27)	1,667	(17)	57.7	(29)
Wyoming	1,368	(47)	2,363.7	(44)	20	(49)	1.5%	(47)	34.6	(48)	2.7%	(13)	(1,160)	(51)	44.9	(35)
United States	2,552,956		7,712.8		127,640		5.0%		385.6		1.6%		1,640		110.4	

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COUNTRY-BY-COUNTRY INFORMATION

Countries Included

"Strategic Guidance in an Era of Unprecedented Change"

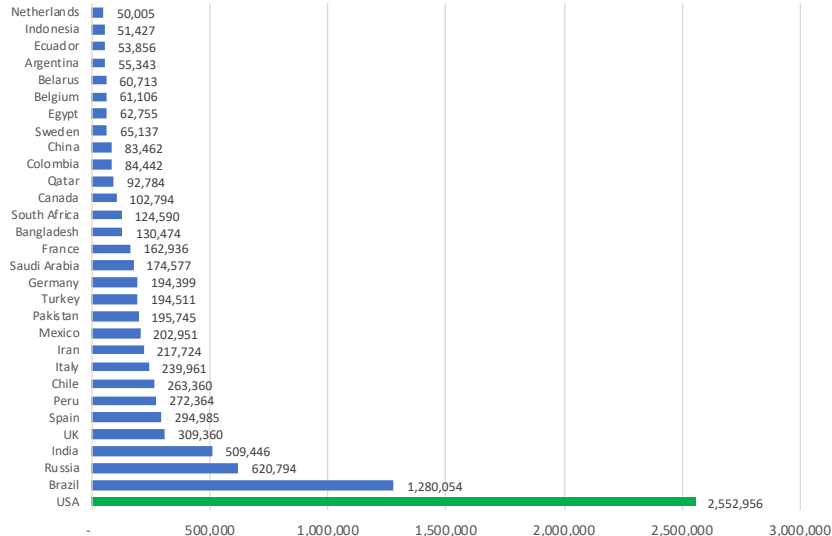
- In Mid-March, we began tracking the twenty countries with the most coronavirus cases; in mid-April, we expanded it to the thirty countries with the most cases
- We now have visibility to all 213 countries and 2 conveyances that have at least 1 coronavirus case
- Case and death information is sourced 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 Cases & Cases Per Capita

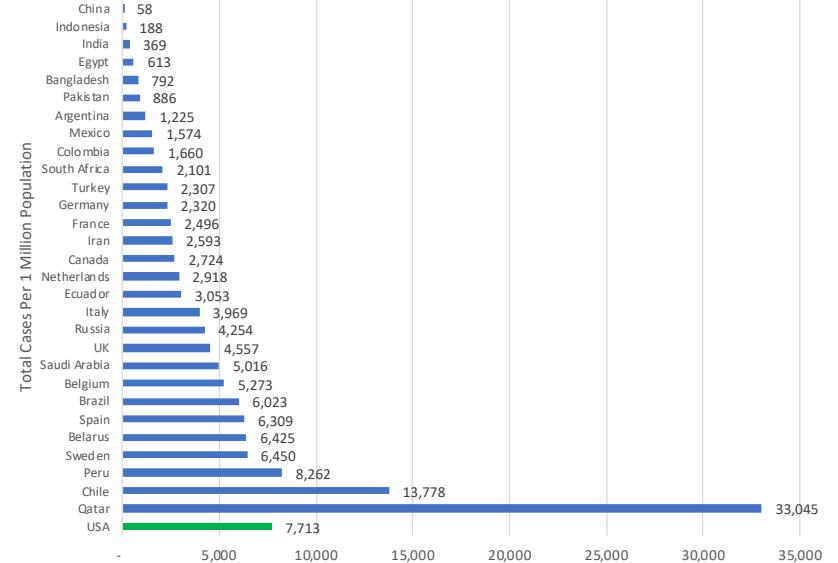
"Strategic Guidance in an Era of Unprecedented Change"

Countries Ranked 1-30 In Total Cases

Total Cases By Country
June 26

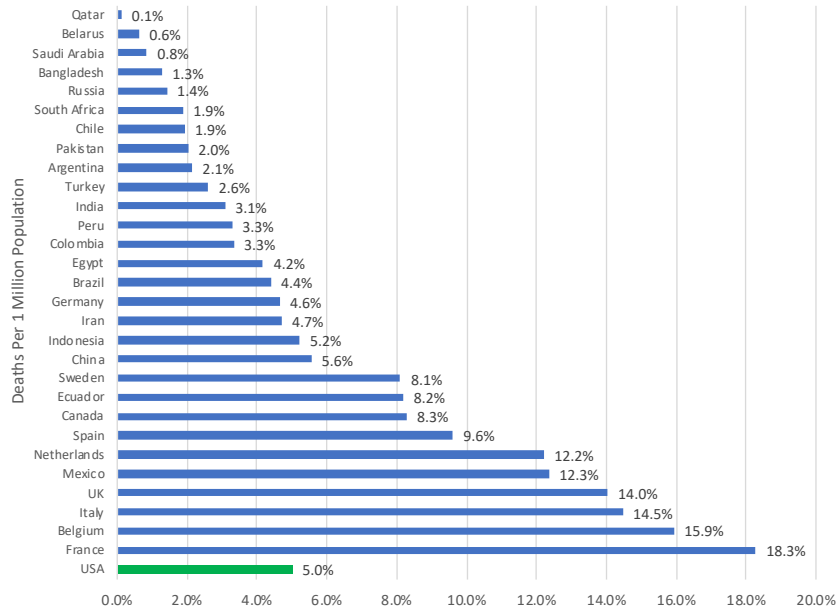


Cases Per Capita By Country
June 26

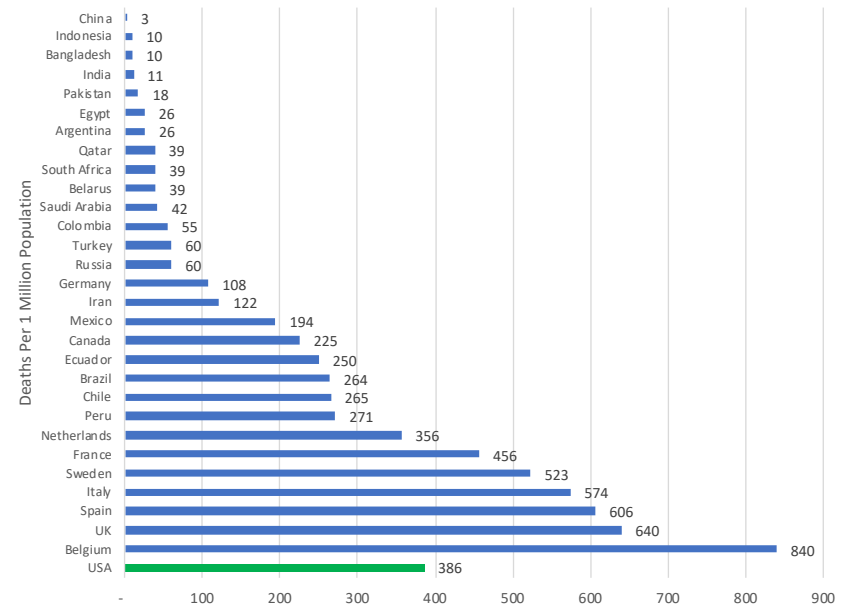


Countries Ranked 1-30 In Total Cases

Death Rate By Country
June 26

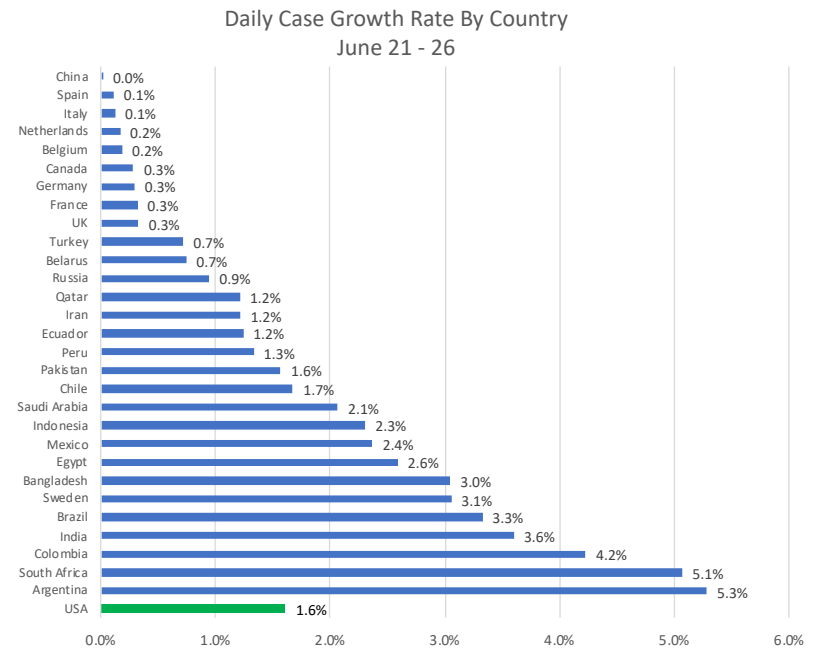
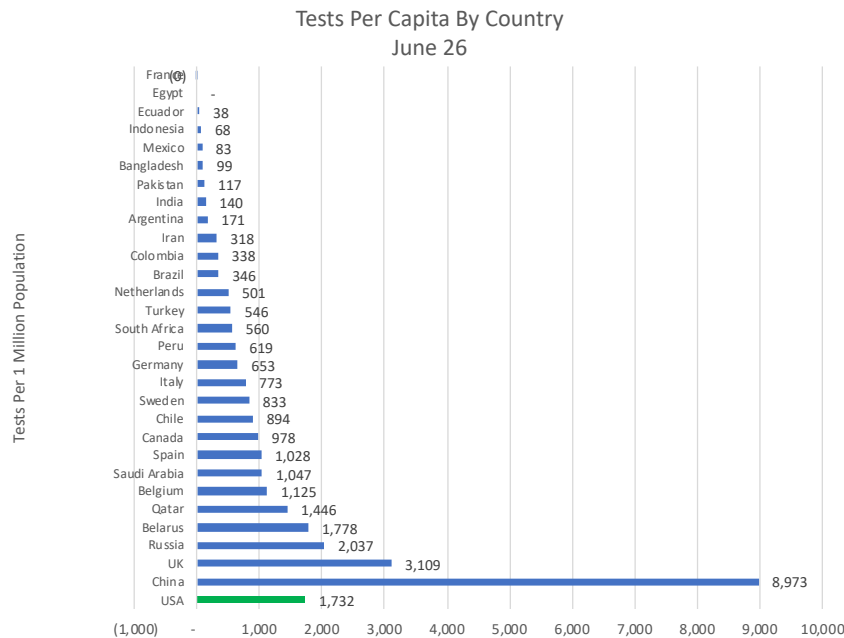


Deaths Per Capita By Country
June 26



"Strategic Guidance in an Era of Unprecedented Change"

Countries Ranked 1-30 In Total Cases

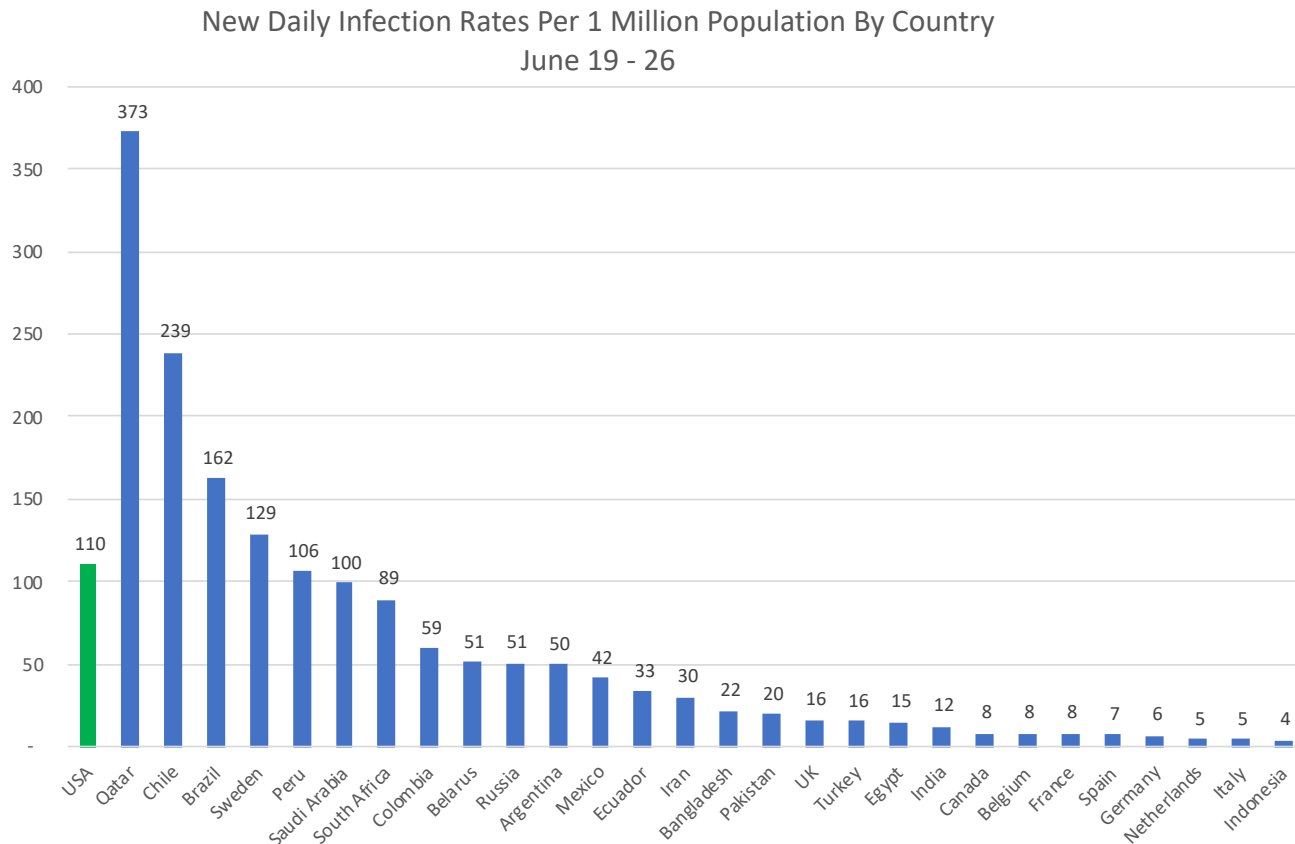


Daily Tests Per Capita For Past Week

Daily Case Growth – 5-Day Moving Average

Country-by-Country New Daily Infection Rates

"Strategic Guidance in an Era of Unprecedented Change"



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 84.0% of all cases worldwide.

Rank	Country	26-Jun	Rank	Country	6-May	Rank	Country	27-Apr
1	USA	2,552,956	1	USA	1,263,092	1	USA	1,010,356
2	Brazil	1,280,054	2	Spain	253,682	2	Spain	229,422
3	Russia	620,794	3	Italy	214,457	3	Italy	199,414
4	India	509,446	4	UK	201,101	4	France	128,339
5	UK	309,360	5	France	174,191	5	Germany	158,758
6	Spain	294,985	6	Germany	168,162	6	UK	157,149
7	Peru	272,364	7	Russia	165,929	7	Turkey	112,261
8	Chile	263,360	8	Turkey	131,744	8	Iran	91,472
9	Italy	239,961	9	Brazil	126,611	9	Russia	87,147
10	Iran	217,724	10	Iran	101,650	10	China	82,830
11	Mexico	202,951	11	China	82,883	11	Brazil	66,501
12	Pakistan	195,745	12	Canada	63,496	12	Canada	48,500
13	Turkey	194,511	13	Peru	54,817	13	Belgium	46,687
14	Germany	194,399	14	India	52,987	14	Netherlands	38,245
15	Saudi Arabia	174,577	15	Belgium	50,781	15	India	29,451
16	France	162,936	16	Netherlands	41,319	16	Switzerland	29,164
19	Canada	102,794	17	Saudi Arabia	31,938	17	Peru	28,669
22	China	83,462	18	Switzerland	30,060	18	Portugal	24,070
23	Sweden	65,137	19	Ecuador	29,420	19	Ecuador	23,240
25	Belgium	61,106	20	Portugal	26,182	20	Ireland	19,648
28	Ecuador	53,856	21	Mexico	26,025	21	Sweden	18,926
30	Netherlands	50,005	22	Sweden	23,918	22	Saudi Arabia	18,811
33	Singapore	42,955	23	Pakistan	23,214	23	Israel	15,555
36	Portugal	40,866	24	Chile	23,048	24	Austria	15,274
40	Switzerland	31,486	25	Ireland	22,248	25	Mexico	14,677
46	Ireland	25,414	26	Singapore	20,198	26	Singapore	14,423
50	Israel	22,800	29	Israel	16,310	27	Pakistan	13,915
52	Japan	18,197	31	Austria	15,684	28	Chile	13,813
53	Austria	17,522	32	Japan	15,253	29	Japan	13,614
62	S. Korea	12,602	38	S. Korea	10,806	35	South Korea	10,738
	Others	1,584,222		Others	356,176		Others	301,446
	World	9,898,547			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 June 26

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	2,552,956	(1)	7,713	(4)	127,640	(1)	5.0%	(13)	385.6	(7)	1.6%	(13)	1,732	(5)	110.4	(5)
Brazil	1,280,054	(2)	6,023	(8)	56,109	(2)	4.4%	(16)	264.0	(11)	3.3%	(5)	346	(19)	162.3	(3)
Russia	620,794	(3)	4,254	(12)	8,781	(13)	1.4%	(26)	60.2	(17)	0.9%	(19)	2,037	(3)	50.6	(11)
India	509,446	(4)	369	(28)	15,689	(8)	3.1%	(20)	11.4	(27)	3.6%	(4)	140	(23)	11.8	(21)
UK	309,360	(5)	4,557	(11)	43,414	(3)	14.0%	(4)	639.5	(2)	0.3%	(22)	3,109	(2)	15.9	(18)
Spain	294,985	(6)	6,309	(7)	28,338	(6)	9.6%	(7)	606.1	(3)	0.1%	(29)	1,028	(9)	7.1	(25)
Peru	272,364	(7)	8,262	(3)	8,939	(12)	3.3%	(19)	271.2	(9)	1.3%	(15)	619	(15)	105.9	(6)
Chile	263,360	(8)	13,778	(2)	5,068	(17)	1.9%	(24)	265.1	(10)	1.7%	(12)	894	(11)	238.9	(2)
Italy	239,961	(9)	3,969	(13)	34,708	(4)	14.5%	(3)	574.0	(4)	0.1%	(28)	773	(13)	4.6	(28)
Iran	217,724	(10)	2,593	(17)	10,239	(9)	4.7%	(14)	121.9	(15)	1.2%	(17)	318	(21)	29.7	(15)
Mexico	202,951	(11)	1,574	(23)	25,060	(7)	12.3%	(5)	194.4	(14)	2.4%	(9)	83	(26)	41.6	(13)
Pakistan	195,745	(12)	886	(25)	3,962	(21)	2.0%	(23)	17.9	(26)	1.6%	(14)	117	(24)	19.9	(17)
Turkey	194,511	(13)	2,307	(20)	5,065	(18)	2.6%	(21)	60.1	(18)	0.7%	(21)	546	(17)	15.7	(19)
Germany	194,399	(14)	2,320	(19)	9,026	(11)	4.6%	(15)	107.7	(16)	0.3%	(24)	653	(14)	6.4	(26)
Saudi Arabia	174,577	(15)	5,016	(10)	1,474	(27)	0.8%	(28)	42.4	(20)	2.1%	(11)	1,047	(8)	99.7	(7)
France	162,936	(16)	2,496	(18)	29,778	(5)	18.3%	(1)	456.2	(6)	0.3%	(23)	0	(30)	7.6	(24)
Bangladesh	130,474	(17)	792	(26)	1,661	(26)	1.3%	(27)	10.1	(28)	3.0%	(7)	99	(25)	21.6	(16)
South Africa	124,590	(18)	2,101	(21)	2,340	(25)	1.9%	(25)	39.5	(22)	5.1%	(2)	560	(16)	88.8	(8)
Canada	102,794	(19)	2,724	(16)	8,508	(14)	8.3%	(8)	225.4	(13)	0.3%	(25)	978	(10)	8.2	(22)
Qatar	92,784	(20)	33,045	(1)	109	(30)	0.1%	(30)	38.8	(23)	1.2%	(18)	1,446	(6)	372.5	(1)
Colombia	84,442	(21)	1,660	(22)	2,811	(22)	3.3%	(18)	55.3	(19)	4.2%	(3)	338	(20)	59.4	(9)
China	83,462	(22)	58	(30)	4,634	(19)	5.6%	(11)	3.2	(30)	0.0%	(30)	8,973	(1)	0.0	(30)
Sweden	65,137	(23)	6,450	(5)	5,280	(16)	8.1%	(10)	522.8	(5)	3.1%	(6)	833	(12)	128.6	(4)
Egypt	62,755	(24)	613	(27)	2,620	(24)	4.2%	(17)	25.6	(25)	2.6%	(8)	0	(29)	14.7	(20)
Belgium	61,106	(25)	5,273	(9)	9,731	(10)	15.9%	(2)	839.7	(1)	0.2%	(26)	1,125	(7)	7.8	(23)
Belarus	60,713	(26)	6,425	(6)	373	(29)	0.6%	(29)	39.5	(21)	0.7%	(20)	1,778	(4)	51.1	(10)
Argentina	55,343	(27)	1,225	(24)	1,184	(28)	2.1%	(22)	26.2	(24)	5.3%	(1)	171	(22)	49.9	(12)
Ecuador	53,856	(28)	3,053	(14)	4,406	(20)	8.2%	(9)	249.8	(12)	1.2%	(16)	38	(28)	33.4	(14)
Indonesia	51,427	(29)	188	(29)	2,683	(23)	5.2%	(12)	9.8	(29)	2.3%	(10)	68	(27)	4.0	(29)
Netherlands	50,005	(30)	2,918	(15)	6,103	(15)	12.2%	(6)	356.2	(8)	0.2%	(27)	501	(18)	4.8	(27)

Note: China does not report test volumes

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VIRUS PROGRESSION BY COUNTRY

Country-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.

