

COVID-19 Dashboard

Issue # 84
Tuesday, June 23, 2020

"Strategic Guidance in an Era of Unprecedented Change"

Measure	Desired Change	Yesterday in the U.S.
Number of Tests	Increase	>469,000
Test-Positivity Rate	Decline	6.0% test-positive on Friday; 5.4% for past 7 days
Number of Cases	Plateau	Cases increased nearly 28% week-over-week – concentrated in 7 states
Deaths % of Total Cases	Decline	5.19%
Number of Deaths / 1M Population	Plateau	369.3
Recoveries : Death	Increase	8.02

- New cases in the United States exceeded 30,000 yesterday, marking the 3rd time in the past 4 days. Once again, a few states accounted for more than 1/2 of these new cases: Arizona, California, Florida, North Carolina and Texas
- Most concerning, over the past week net infections per capita have increased by 80-190% in Arizona, Florida, Idaho, Montana, Texas and Oklahoma. Arizona's rate of 351 new infections per million for the past week (trailing 7-day moving average) is approaching rates observed in New York, New Jersey, Connecticut, Rhode Island at the peak of the crisis in early April
- New daily infections per million in the United States are now 89.2; these were as low as 64.2 on May 29. They had peaked at 96.8 on April 10
- An encouraging sign is the drop in new infections per capita in Alabama in the past week: after peaking at 160 on June 16, the current rate is 122. rates in 21 states are <50% of there peak; in Connecticut, Massachusetts, New Jersey and New York, they are 10% or less of the peak
- Over the past week, several states with large populations have moved into our "High" concern category: California, Florida, Mississippi, Nevada and Texas join Alabama, Arizona, Arkansas, North Carolina, South Carolina and Utah. These states exhibit high rates of new infections per capita, as well as either high test-positive rates, hospitalization or case growth. At this point, 43% of the US population resides in a "High" concern state; 47% reside in a "Low" concern state
- Estimated ICU bed needs in at least two states of concern are nearing capacity, according to the Institute for Health Metrics and Evaluation (IHME): Arizona (83% of capacity) and Florida (92%). The remaining states in the "High" concern category each reportedly are at <50% of ICU bed capacity
- The test-positive rate on Monday was up to 6.0%, the highest daily rate since May 27th. Washington's rate for the past week is 23.1%; Arizona's, 21.2%
- Deaths continued trending downward in the United States; 362 deaths were recorded yesterday. Deaths for the past week are ~ 1/4 the level experienced in mid-April. Cumulatively, the death rate is now down to 5.13%
- Reports from Texas, Arizona and Florida are suggesting that case increases are primarily among younger people, and that it is being driven by increased testing among these people. We are working to gather and analyze the data to validate these reports. What we have learned thus far:
 - Over the past 3 weeks, testing has more than doubled in Arizona and is up 19% in Florida and 24% in Texas
 - However, test-positive rates have also increased in this time, in Arizona from 8.8% to 21.2%; Florida, from 3.8% to 12.2%; and, Texas, from 5.4% to 11%
 - In Arizona, 57% of the cases and 5% of the deaths are age 20-44; 13% of the cases and 75% of deaths are 65 years and older
 - Death rates in all 3 states continue to be low: Arizona, 2.5%; Florida, 3.2%; and Texas, 1.9%. Notably, these rates were low in each state even prior to the recent run-up in cases

UNITED STATES & STATE-BY-STATE INFORMATION

STATE-BY-STATE OVERALL ASSESSMENT SCORECARD

State-By-State Overall Assessment Scorecard

"Strategic Guidance in an Era of Unprecedented Change"

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

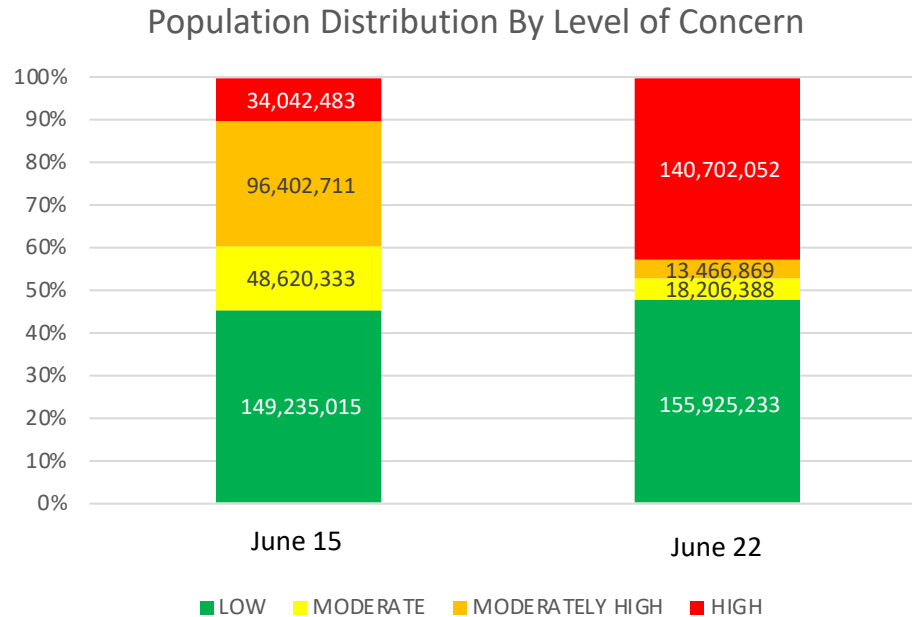
- Current rate of new infections, relative to its peak (is it declining or near its peak?)
- Test-positive rate
- Rate of change in cases
- Hospitalized patients v. its peak

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)



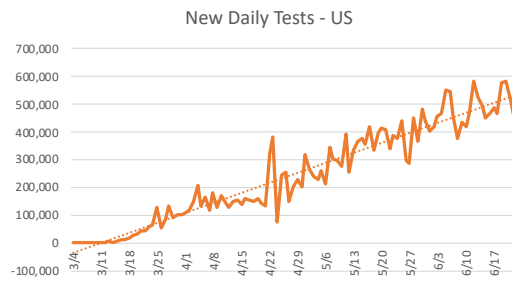
State-By-State Population Distribution By Level of Concern

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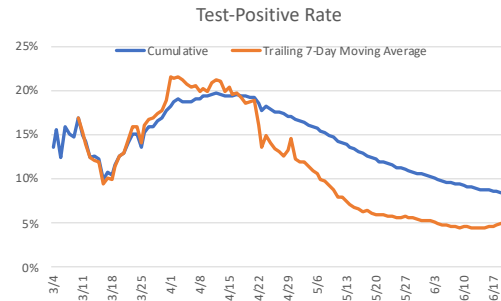


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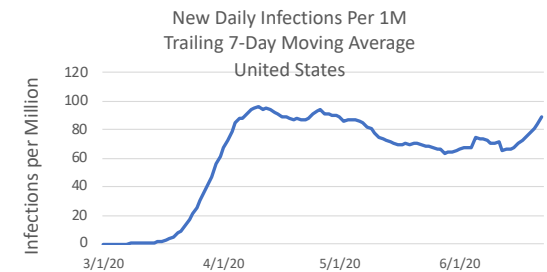
With significantly increased testing, the US is now meeting the WHO standard of <10% test-positives. This suggests that asymptomatic cases are being captured and that we have a better view of true infection rates. Further, new daily infections continue to decline; the death rate seems to have stabilized.



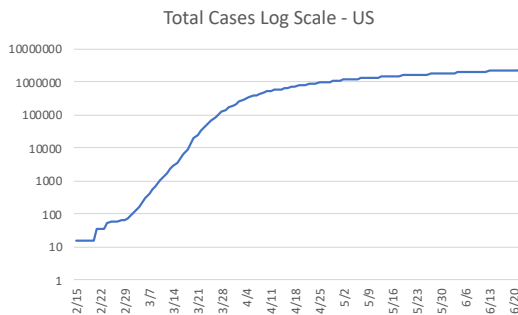
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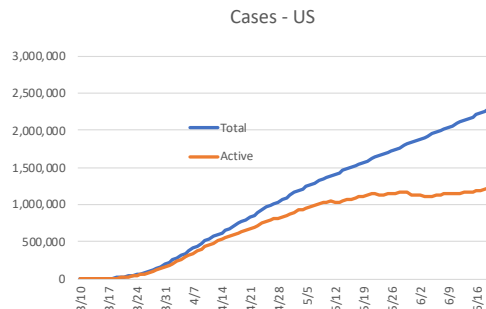
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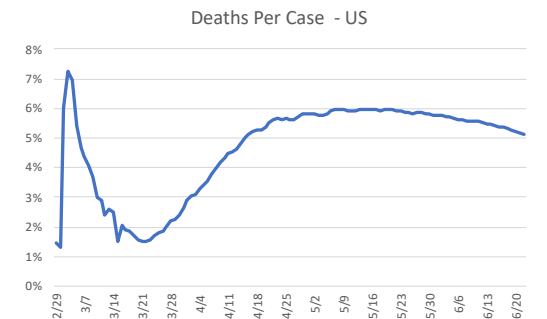
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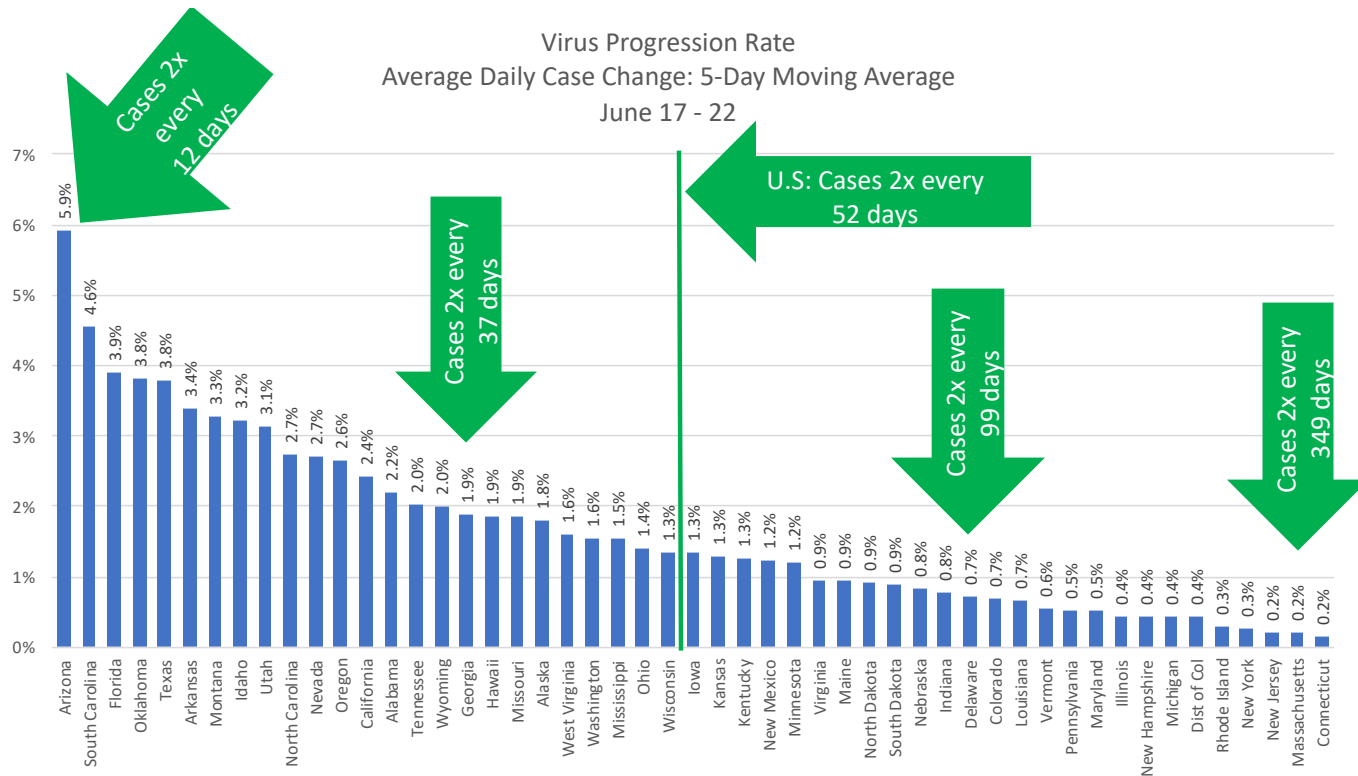


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State-by-State Average Daily Case Growth

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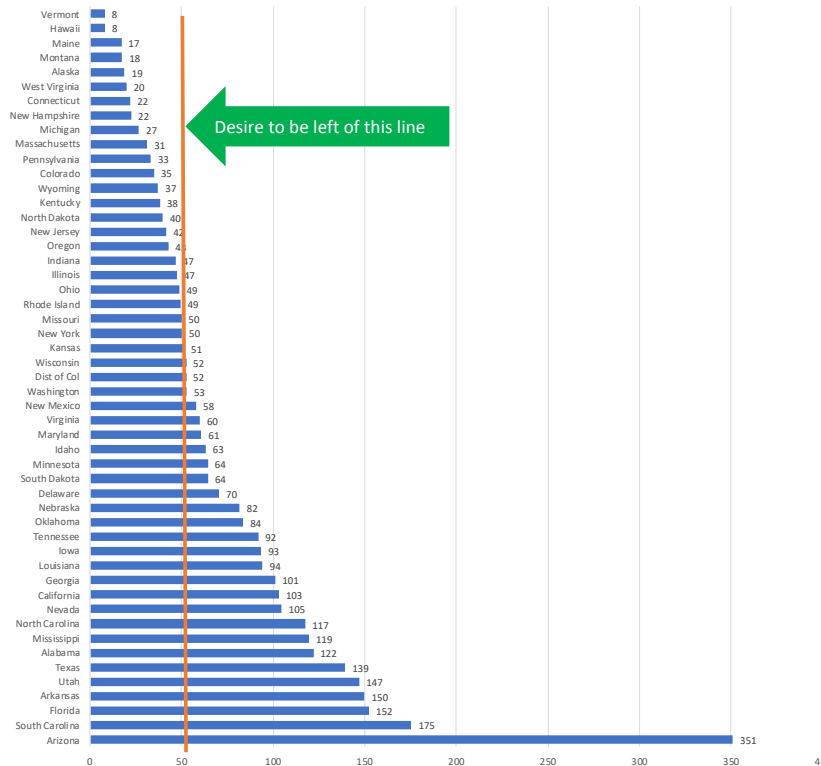
At the height of the epidemic, cases in some states were doubling every few days. Now, they would take from 12 – 477 days to double



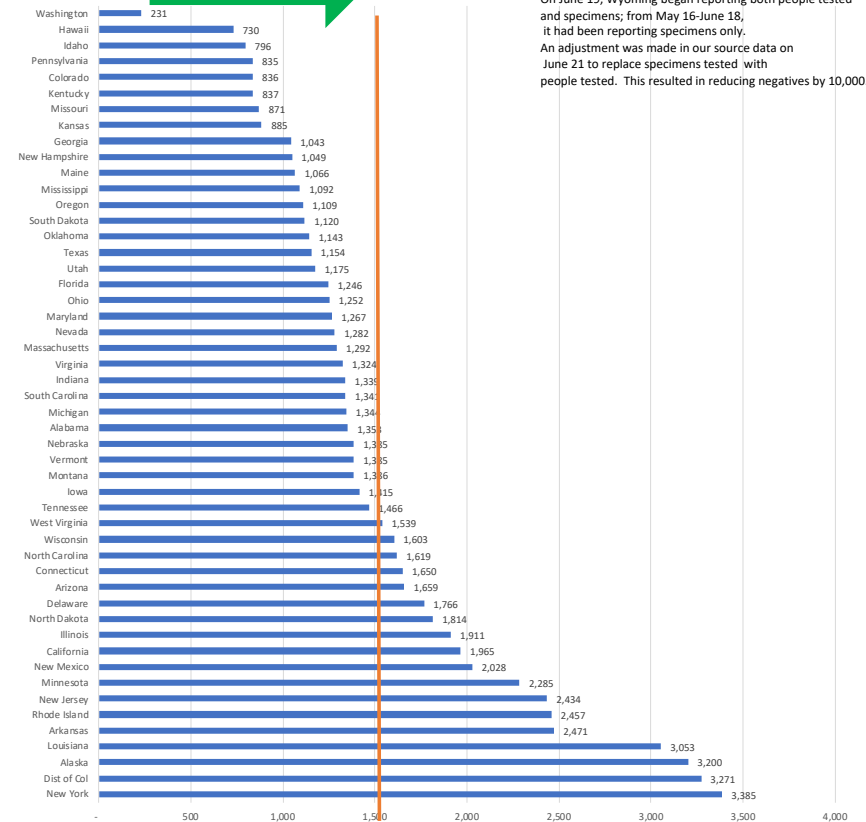
State-by-State New Daily Infections & Tests Per Capita

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New Daily Infections Per 1 Million Population
By State
June 15 - 22



Daily Tests Per 1 Million Population
By State
June 15 - 22

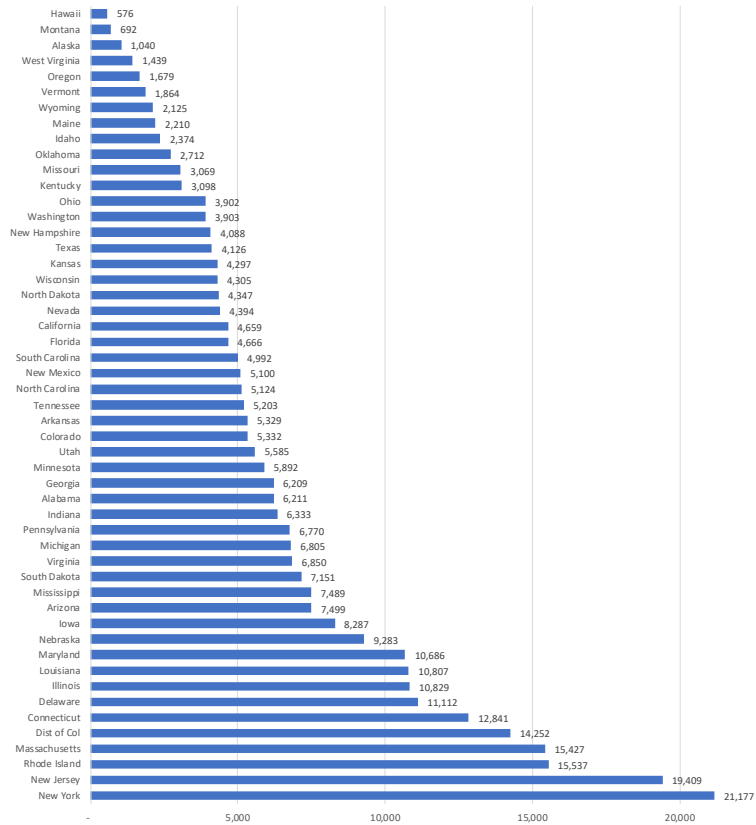


On June 19, Wyoming began reporting both people tested and specimens; from May 16-June 18, it had been reporting specimens only. An adjustment was made in our source data on June 21 to replace specimens tested with people tested. This resulted in reducing negatives by 10,000.

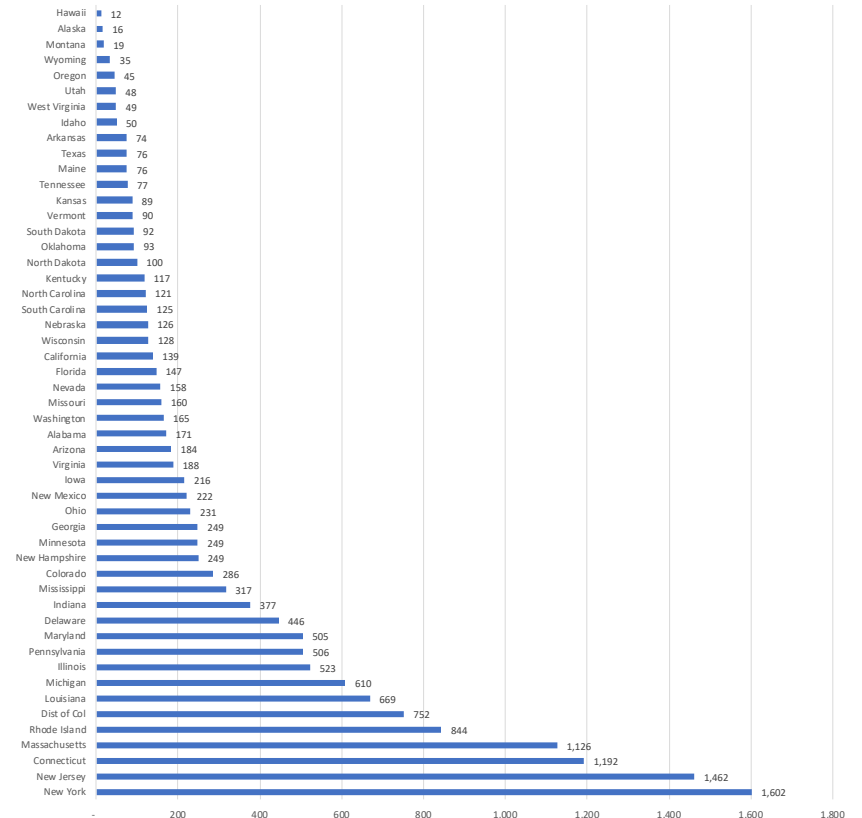
State-by-State Cases & Deaths Per Capita

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Total Cases Per 1 Million Population
By State
As of June 22



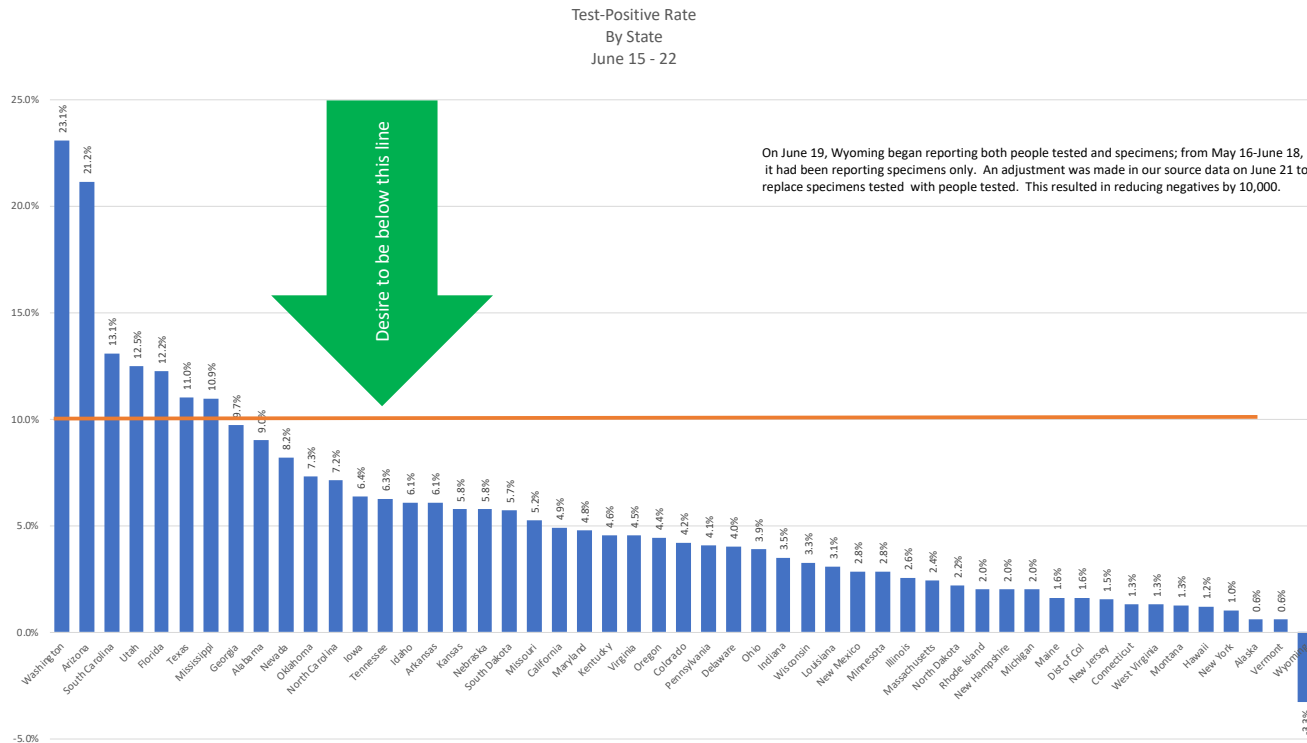
Deaths Per 1 Million Population
By State
As of June 22



Which States Are Performing Sufficient Tests?

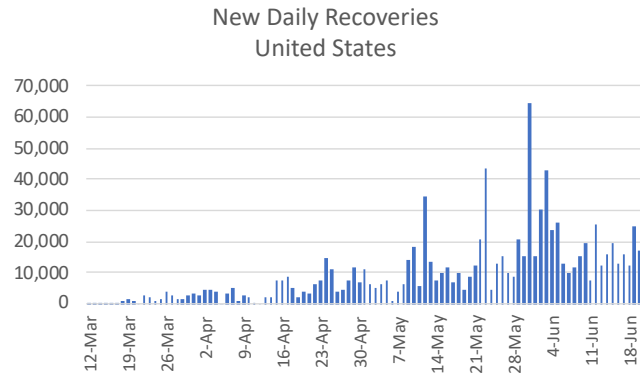
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The [World Health Organization](#) suggested that the test-positive rate should be 10% or lower, for testing to be sufficient to assess the true prevalence of the virus. Several states failed to meet this guideline for the past week

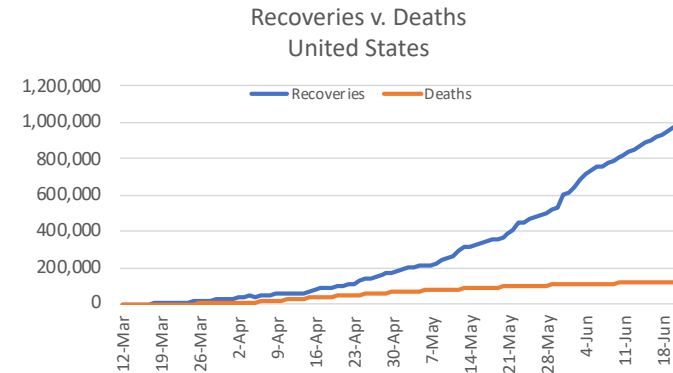


UNDER-REPORTED RECOVERIES? POSSIBLE LAG IN STATE REPORTING

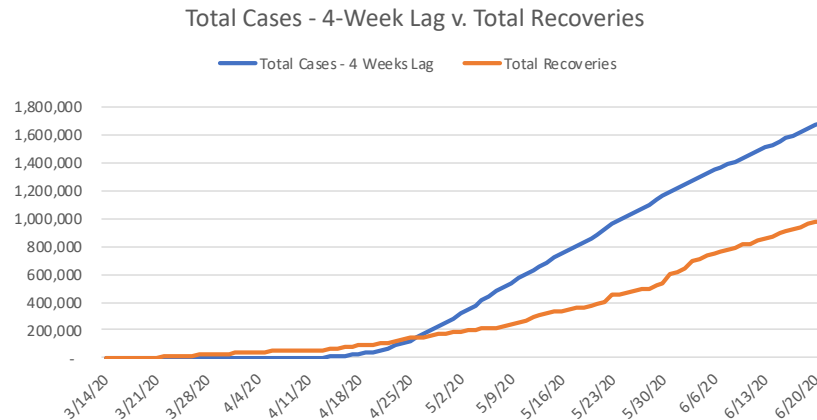
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Which states seem to be lagging in reporting?

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 ~360-530k

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

State	Recoveries	Expected Recoveries	
		Low	High
Alabama	15,974	11,989	13,487
Alaska	491	327	368
Arizona	7,581	13,249	14,905
Arkansas	10,793	4,823	5,426
California	49,410	77,494	87,181
Colorado	5,044	19,415	21,842
Connecticut	9,161	32,698	36,786
Delaware	6,459	7,172	8,069
District Of Columbia	1,182	6,580	7,403
Florida	19,517	41,397	46,571
Georgia	5,299	34,720	39,060
Hawaii	669	514	579
Idaho	3,405	2,101	2,363
Illinois	104,512	89,614	100,815
Indiana	31,739	25,372	28,544
Iowa	16,260	14,062	15,819
Kansas	7,614	7,409	8,335
Kentucky	3,534	6,857	7,714
Louisiana	39,792	30,247	34,028
Maine	2,391	1,659	1,867
Maryland	4,776	37,722	42,437
Massachusetts	88,725	74,617	83,944
Michigan	49,290	43,905	49,393
Minnesota	29,065	17,052	19,184
Mississippi	17,242	10,766	12,112
Missouri	4,006	9,942	11,185

Low = 80% of Total Cases 4 week ago
High = 90% of Total Cases 4 week ago

State	Recoveries	Expected Recoveries	
		Low	High
Montana	550	383	431
Nebraska	11,980	9,884	11,120
Nevada	9,545	6,303	7,091
New Hampshire	4,290	3,358	3,777
New Jersey	37,146	125,282	140,942
New Mexico	4,742	5,621	6,323
New York	87,335	297,995	335,245
North Carolina	36,921	19,245	21,650
North Dakota	2,952	1,966	2,211
Ohio	10,120	26,028	29,282
Oklahoma	7,648	4,872	5,481
Oregon	2,588	3,159	3,554
Pennsylvania	59,459	57,906	65,144
Rhode Island	1,554	11,252	12,659
South Carolina	10,790	8,142	9,160
South Dakota	5,437	3,669	4,127
Tennessee	23,567	16,486	18,546
Texas	69,174	45,354	51,024
Utah	9,863	6,817	7,669
Vermont	926	770	866
Virginia	7,663	30,182	33,954
Washington	9,676	16,692	18,779
West Virginia	1,726	1,426	1,604
Wisconsin	19,543	12,467	14,026
Wyoming	931	674	759

United States	1,002,929	1,364,981	1,535,603
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- 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

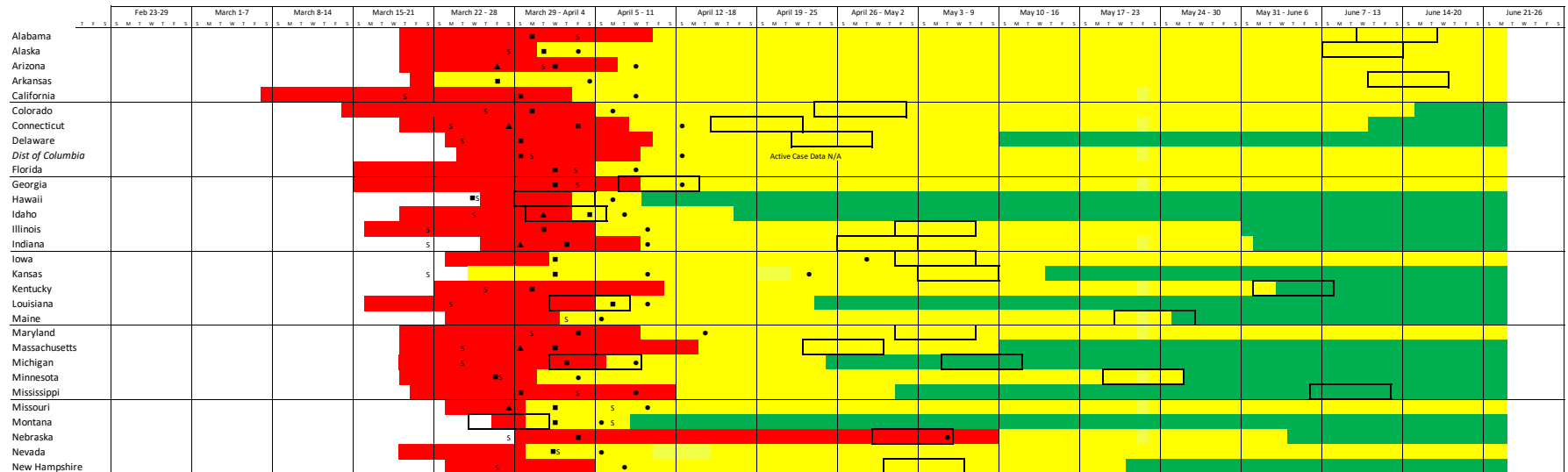
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The graphic on the following two pages illustrates when the state first recorded 100 total cases (start of the “contagion” phase); when growth stopped following an exponential pattern (start of the “containment” phase); and, when peak total cases were 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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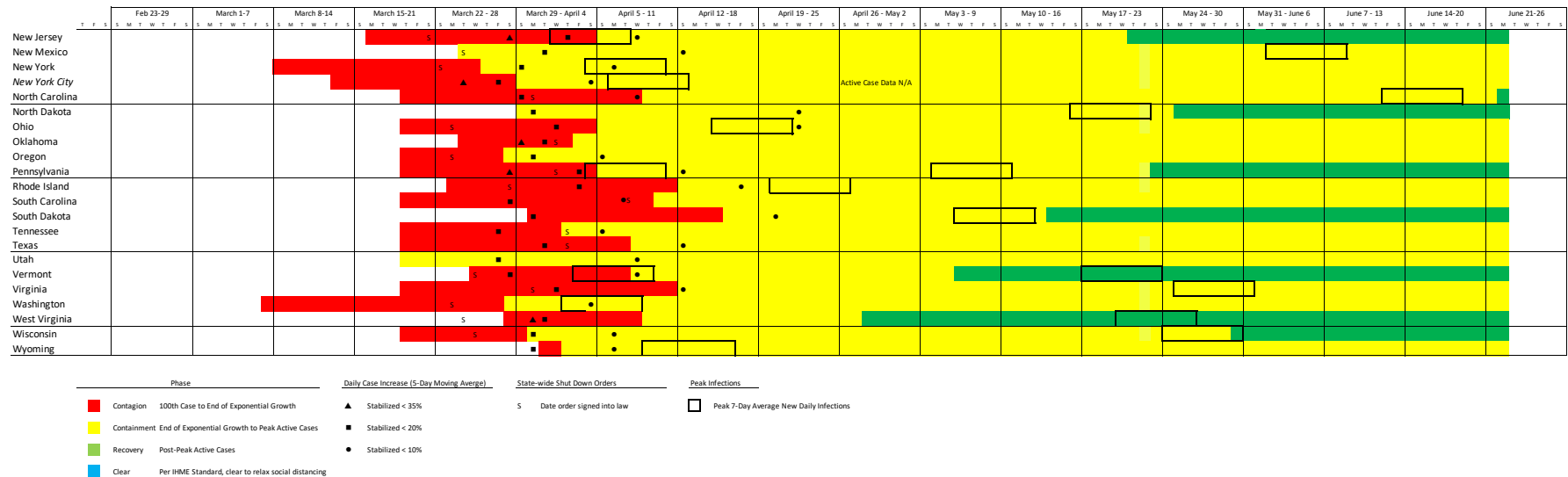
Note: Many states are in yellow because they fail to keep up-to-date in reporting recovered patients

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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 22

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	30,454	(22)	6,211.1	(20)	841	(25)	2.8%	(34)	171.5	(24)	2.2%	(14)	1,353	(24)	128.4	(6)
Alaska	761	(50)	1,040.3	(49)	12	(51)	1.6%	(46)	16.4	(50)	1.8%	(20)	3,200	(3)	18.4	(47)
Arizona	54,586	(13)	7,499.4	(13)	1,342	(19)	2.5%	(38)	184.4	(23)	5.9%	(1)	1,659	(14)	327.7	(1)
Arkansas	16,083	(32)	5,329.3	(25)	227	(39)	1.4%	(48)	75.2	(43)	3.4%	(6)	2,471	(5)	144.9	(3)
California	184,095	(2)	4,659.2	(31)	5,565	(7)	3.0%	(30)	140.8	(29)	2.4%	(13)	1,965	(10)	92.9	(13)
Colorado	30,705	(21)	5,331.9	(24)	1,651	(16)	5.4%	(12)	286.7	(15)	0.7%	(38)	836	(46)	35.0	(39)
Connecticut	45,782	(16)	12,841.0	(6)	4,263	(8)	9.3%	(1)	1,195.7	(3)	0.2%	(51)	1,650	(15)	26.7	(43)
Delaware	10,820	(36)	11,111.5	(7)	435	(34)	4.0%	(22)	446.7	(12)	0.7%	(37)	1,766	(13)	75.0	(17)
District Of Columbia	10,058	(39)	14,251.5	(5)	535	(29)	5.3%	(13)	758.1	(6)	0.4%	(46)	3,271	(2)	51.2	(27)
Florida	100,217	(7)	4,666.1	(30)	3,176	(9)	3.2%	(29)	147.9	(28)	3.9%	(3)	1,246	(33)	144.5	(4)
Georgia	65,928	(10)	6,209.4	(21)	2,648	(13)	4.0%	(23)	249.4	(17)	1.9%	(17)	1,043	(42)	94.5	(11)
Hawaii	816	(49)	576.3	(51)	17	(50)	2.1%	(42)	12.0	(51)	1.9%	(18)	730	(49)	8.7	(50)
Idaho	4,254	(43)	2,373.8	(43)	89	(44)	2.1%	(41)	49.7	(45)	3.2%	(8)	796	(48)	48.4	(30)
Illinois	137,224	(4)	10,829.1	(8)	6,671	(4)	4.9%	(15)	526.4	(9)	0.4%	(43)	1,911	(11)	47.6	(31)
Indiana	42,633	(18)	6,332.7	(19)	2,553	(14)	6.0%	(9)	379.2	(13)	0.8%	(36)	1,339	(27)	53.3	(25)
Iowa	26,145	(24)	8,286.7	(12)	686	(27)	2.6%	(36)	217.4	(21)	1.3%	(26)	1,415	(20)	92.2	(14)
Kansas	12,518	(35)	4,296.8	(35)	259	(37)	2.1%	(43)	88.9	(39)	1.3%	(27)	885	(43)	54.0	(24)
Kentucky	13,839	(33)	3,097.6	(40)	526	(31)	3.8%	(24)	117.7	(34)	1.3%	(28)	837	(45)	41.7	(37)
Louisiana	50,239	(15)	10,806.9	(9)	3,117	(10)	6.2%	(7)	670.5	(7)	0.7%	(39)	3,053	(4)	105.9	(9)
Maine	2,971	(45)	2,210.2	(44)	102	(42)	3.4%	(28)	75.9	(42)	0.9%	(32)	1,066	(40)	17.4	(48)
Maryland	64,603	(11)	10,685.8	(10)	3,074	(11)	4.8%	(17)	508.5	(10)	0.5%	(42)	1,267	(31)	61.6	(21)
Massachusetts	107,210	(6)	15,427.0	(4)	7,874	(3)	7.3%	(6)	1,133.0	(4)	0.2%	(50)	1,292	(29)	30.0	(41)
Michigan	67,957	(9)	6,804.6	(17)	6,097	(6)	9.0%	(2)	610.5	(8)	0.4%	(45)	1,344	(25)	23.7	(45)
Minnesota	33,227	(20)	5,891.7	(22)	1,416	(18)	4.3%	(21)	251.1	(16)	1.2%	(30)	2,285	(8)	62.0	(20)
Mississippi	22,287	(27)	7,488.5	(14)	978	(23)	4.4%	(18)	328.6	(14)	1.5%	(23)	1,092	(39)	72.3	(18)

As of June 22

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	18,838	(28)	3,069.4	(41)	981	(22)	5.2%	(14)	159.8	(26)	1.9%	(19)	871	(44)	44.9	(35)
Montana	740	(51)	692.4	(50)	21	(48)	2.8%	(32)	19.6	(49)	3.3%	(7)	1,386	(21)	15.5	(49)
Nebraska	17,957	(29)	9,282.9	(11)	249	(38)	1.4%	(49)	128.7	(30)	0.8%	(35)	1,385	(23)	80.1	(16)
Nevada	13,535	(34)	4,394.3	(32)	489	(32)	3.6%	(25)	158.8	(27)	2.7%	(11)	1,282	(30)	94.2	(12)
New Hampshire	5,558	(42)	4,087.6	(37)	339	(36)	6.1%	(8)	249.3	(18)	0.4%	(44)	1,049	(41)	23.7	(44)
New Jersey	172,390	(3)	19,408.5	(2)	13,030	(2)	7.6%	(4)	1,467.0	(2)	0.2%	(49)	2,434	(7)	42.4	(36)
New Mexico	10,694	(38)	5,100.1	(28)	469	(33)	4.4%	(19)	223.7	(20)	1.2%	(29)	2,028	(9)	57.4	(23)
New York	411,972	(1)	21,177.2	(1)	31,268	(1)	7.6%	(3)	1,607.3	(1)	0.3%	(48)	3,385	(1)	49.9	(29)
North Carolina	53,736	(14)	5,123.5	(27)	1,275	(21)	2.4%	(39)	121.6	(33)	2.7%	(10)	1,619	(16)	118.1	(8)
North Dakota	3,313	(44)	4,347.4	(33)	77	(46)	2.3%	(40)	101.0	(35)	0.9%	(33)	1,814	(12)	39.0	(38)
Ohio	45,609	(17)	3,901.8	(39)	2,709	(12)	5.9%	(10)	231.8	(19)	1.4%	(24)	1,252	(32)	45.1	(34)
Oklahoma	10,733	(37)	2,712.4	(42)	369	(35)	3.4%	(27)	93.3	(36)	3.8%	(4)	1,143	(36)	82.5	(15)
Oregon	7,083	(40)	1,679.3	(47)	192	(40)	2.7%	(35)	45.5	(47)	2.6%	(12)	1,109	(38)	47.5	(32)
Pennsylvania	86,668	(8)	6,769.9	(18)	6,485	(5)	7.5%	(5)	506.6	(11)	0.5%	(41)	835	(47)	30.0	(42)
Rhode Island	16,459	(31)	15,536.7	(3)	903	(24)	5.5%	(11)	852.4	(5)	0.3%	(47)	2,457	(6)	52.6	(26)
South Carolina	25,701	(25)	4,991.7	(29)	659	(28)	2.6%	(37)	128.0	(31)	4.6%	(2)	1,341	(26)	163.6	(2)
South Dakota	6,326	(41)	7,150.8	(15)	81	(45)	1.3%	(50)	91.6	(37)	0.9%	(34)	1,120	(37)	64.4	(19)
Tennessee	35,553	(19)	5,203.0	(26)	531	(30)	1.5%	(47)	77.7	(40)	2.0%	(15)	1,466	(19)	97.6	(10)
Texas	119,645	(5)	4,126.3	(36)	2,218	(15)	1.9%	(44)	76.5	(41)	3.8%	(5)	1,154	(35)	124.6	(7)
Utah	17,906	(30)	5,585.2	(23)	158	(41)	0.9%	(51)	49.3	(46)	3.1%	(9)	1,175	(34)	140.3	(5)
Vermont	1,163	(48)	1,863.8	(46)	56	(47)	4.8%	(16)	89.7	(38)	0.6%	(40)	1,385	(22)	7.3	(51)
Virginia	58,465	(12)	6,849.6	(16)	1,620	(17)	2.8%	(33)	189.8	(22)	0.9%	(31)	1,324	(28)	58.4	(22)
Washington	29,718	(23)	3,902.6	(38)	1,278	(20)	4.3%	(20)	167.8	(25)	1.6%	(22)	231	(50)	47.4	(33)
West Virginia	2,571	(46)	1,438.6	(48)	90	(43)	3.5%	(26)	50.4	(44)	1.6%	(21)	1,539	(18)	20.2	(46)
Wisconsin	25,068	(26)	4,305.4	(34)	745	(26)	3.0%	(31)	128.0	(32)	1.3%	(25)	1,603	(17)	50.6	(28)
Wyoming	1,230	(47)	2,125.2	(45)	20	(49)	1.6%	(45)	34.6	(48)	2.0%	(16)	(1,287)	(51)	33.8	(40)
United States	2,388,153		7,214.9		122,610		5.1%		370.5		1.3%		1,531		97.5	

COUNTRY-BY-COUNTRY INFORMATION

Countries Included

"Strategic Guidance in an Era of Unprecedented Change"

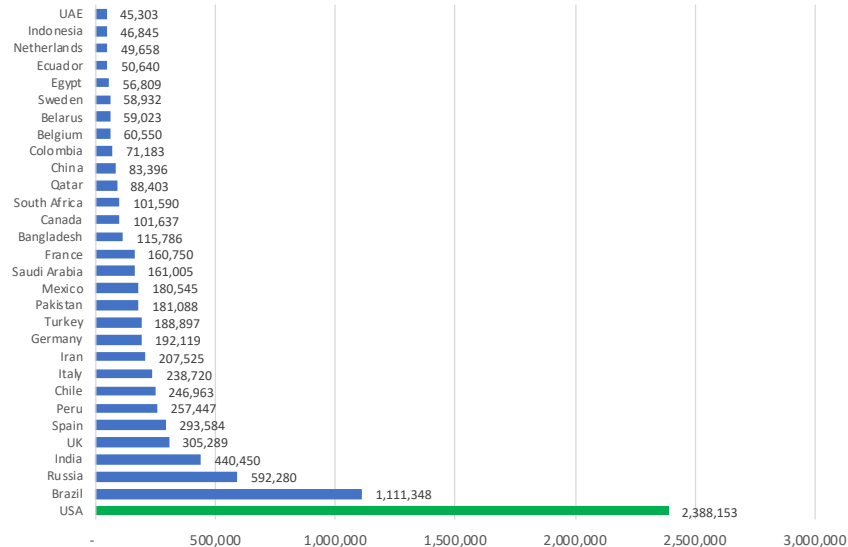
- In Mid-March, we began tracking the twenty countries with the most coronavirus cases; in mid-April, we expanded it to the thirty countries with the most cases
- We now have visibility to all 213 countries and 2 conveyances that have at least 1 coronavirus case
- Case and death information is sourced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

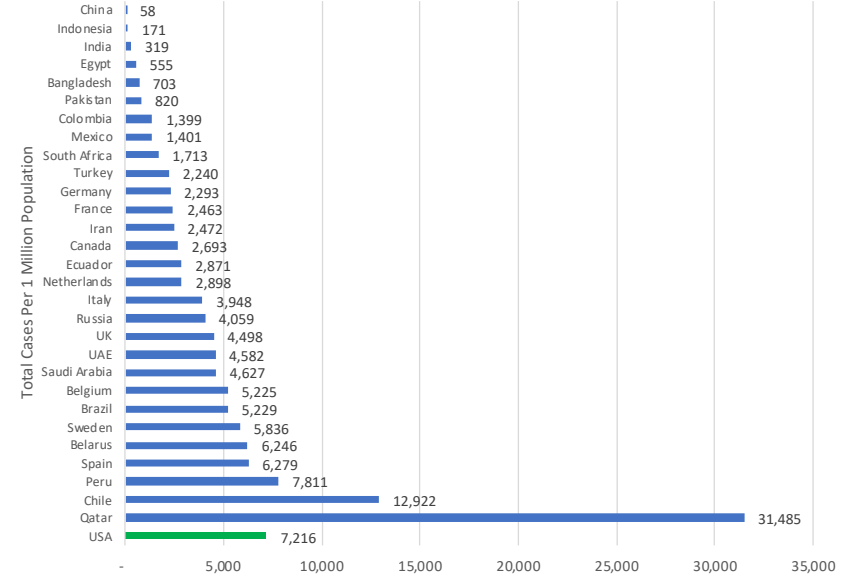
"Strategic Guidance in an Era of Unprecedented Change"

Countries Ranked 1-30 In Total Cases

Total Cases By Country
June 22

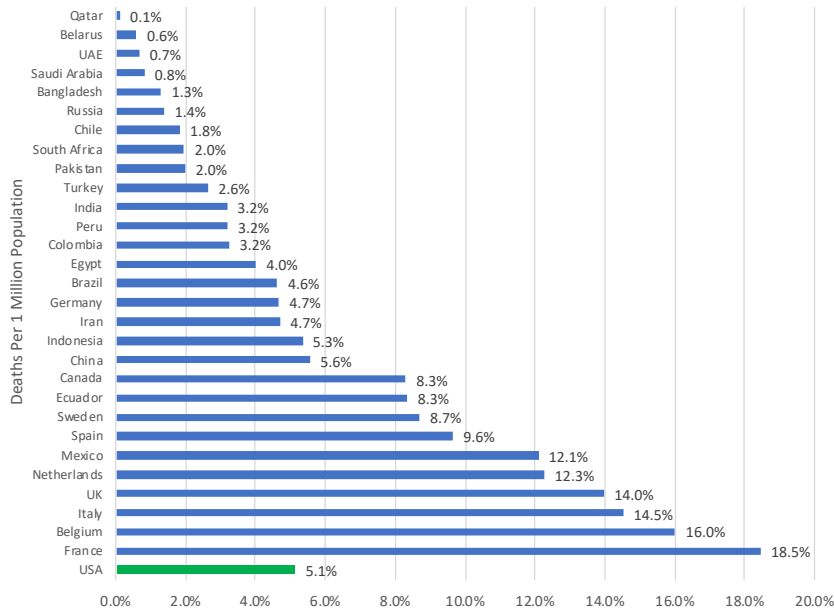


Cases Per Capita By Country
June 22

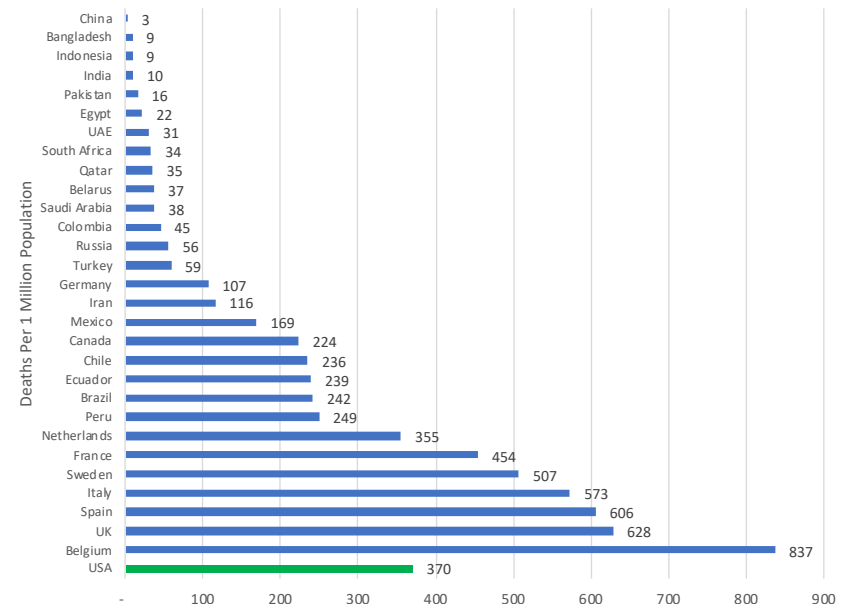


Countries Ranked 1-30 In Total Cases

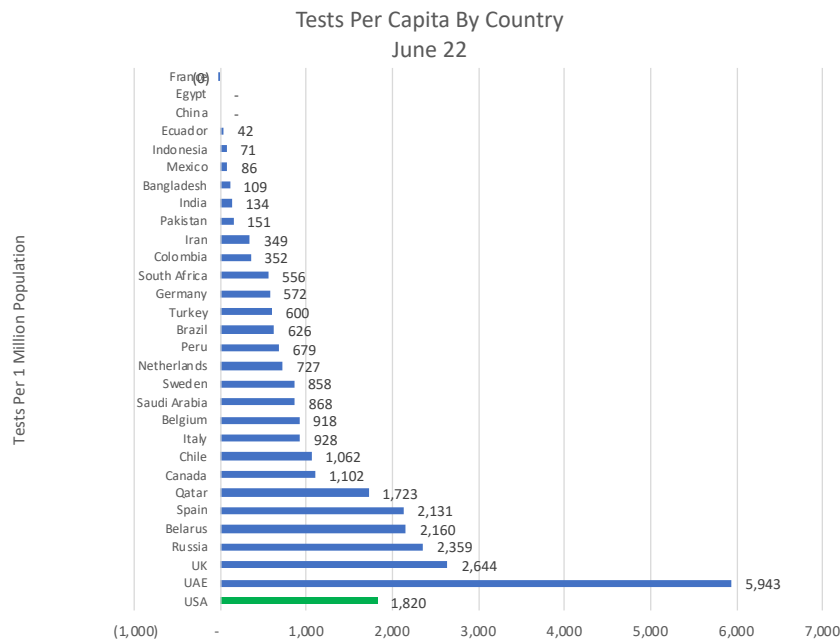
Death Rate By Country
June 22



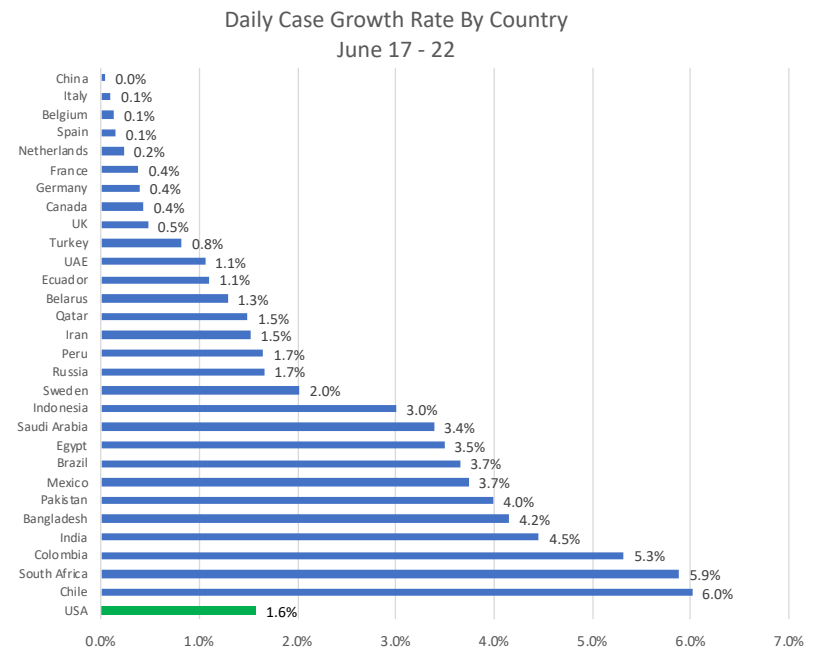
Deaths Per Capita By Country
June 22



Countries Ranked 1-30 In Total Cases



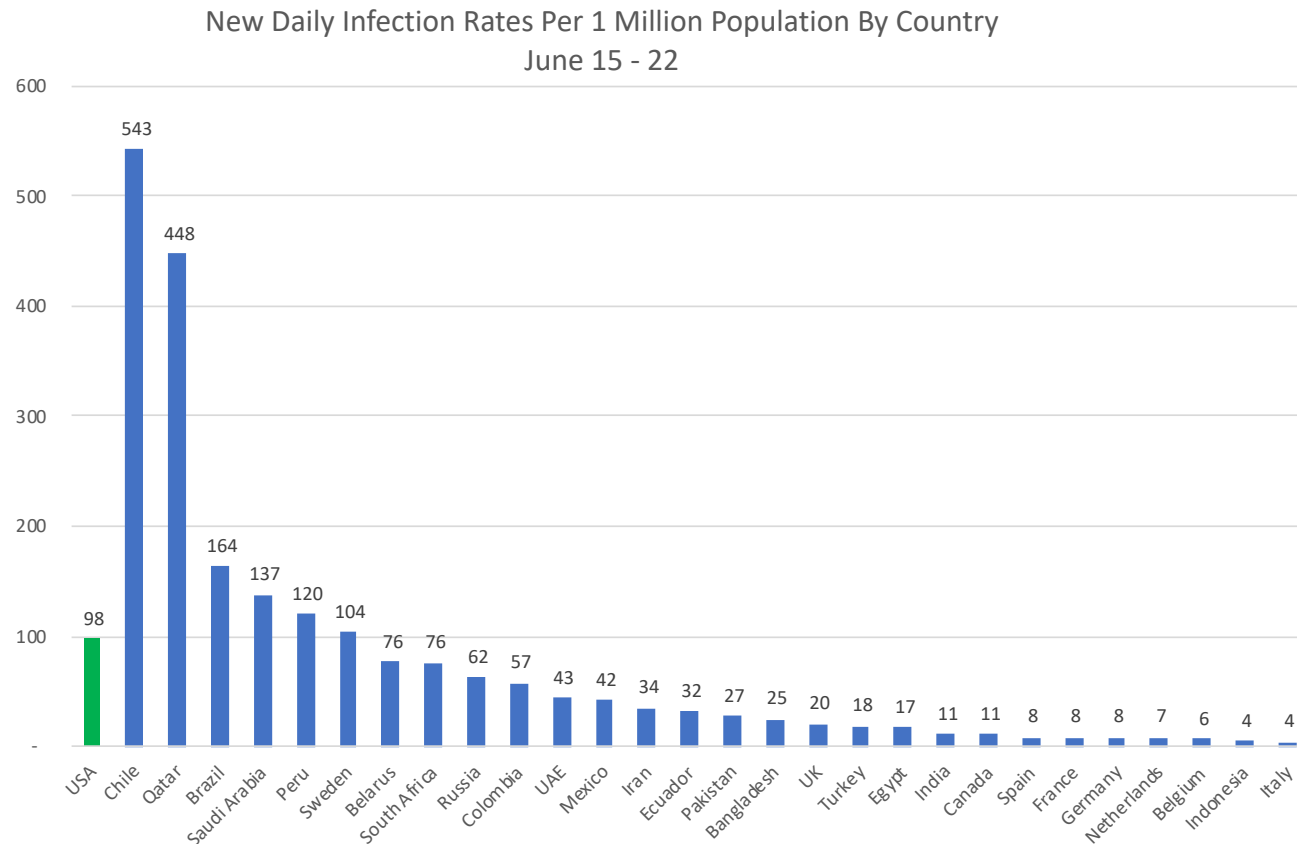
Daily Tests Per Capita For Past Week



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 84.5% of all cases worldwide.

Rank	Country	22-Jun	Rank	Country	6-May	Rank	Country	27-Apr
1	USA	2,388,153	1	USA	1,263,092	1	USA	1,010,356
2	Brazil	1,111,348	2	Spain	253,682	2	Spain	229,422
3	Russia	592,280	3	Italy	214,457	3	Italy	199,414
4	India	440,450	4	UK	201,101	4	France	128,339
5	UK	305,289	5	France	174,191	5	Germany	158,758
6	Spain	293,584	6	Germany	168,162	6	UK	157,149
7	Peru	257,447	7	Russia	165,929	7	Turkey	112,261
8	Chile	246,963	8	Turkey	131,744	8	Iran	91,472
9	Italy	238,720	9	Brazil	126,611	9	Russia	87,147
10	Iran	207,525	10	Iran	101,650	10	China	82,830
11	Germany	192,119	11	China	82,883	11	Brazil	66,501
12	Turkey	188,897	12	Canada	63,496	12	Canada	48,500
13	Pakistan	181,088	13	Peru	54,817	13	Belgium	46,687
14	Mexico	180,545	14	India	52,987	14	Netherlands	38,245
15	Saudi Arabia	161,005	15	Belgium	50,781	15	India	29,451
16	France	160,750	16	Netherlands	41,319	16	Switzerland	29,164
18	Canada	101,637	17	Saudi Arabia	31,938	17	Peru	28,669
21	China	83,396	18	Switzerland	30,060	18	Portugal	24,070
23	Belgium	60,550	19	Ecuador	29,420	19	Ecuador	23,240
25	Sweden	58,932	20	Portugal	26,182	20	Ireland	19,648
27	Ecuador	50,640	21	Mexico	26,025	21	Sweden	18,926
28	Netherlands	49,658	22	Sweden	23,918	22	Saudi Arabia	18,811
32	Singapore	42,313	23	Pakistan	23,214	23	Israel	15,555
34	Portugal	39,392	24	Chile	23,048	24	Austria	15,274
38	Switzerland	31,310	25	Ireland	22,248	25	Mexico	14,677
44	Ireland	25,383	26	Singapore	20,198	26	Singapore	14,423
48	Israel	21,082	29	Israel	16,310	27	Pakistan	13,915
51	Japan	17,916	31	Austria	15,684	28	Chile	13,813
53	Austria	17,380	32	Japan	15,253	29	Japan	13,614
61	S. Korea	12,438	38	S. Korea	10,806	35	South Korea	10,738
	Others	1,422,685		Others	356,176		Others	301,446
	World	9,180,875		World	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 22

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	2,388,153	(1)	7,216	(4)	122,610	(1)	5.1%	(13)	370.5	(7)	1.6%	(15)	1,820	(6)	97.5	(7)
Brazil	1,111,348	(2)	5,229	(8)	51,407	(2)	4.6%	(16)	241.9	(10)	3.7%	(8)	626	(16)	163.7	(3)
Russia	592,280	(3)	4,059	(13)	8,206	(14)	1.4%	(25)	56.2	(18)	1.7%	(13)	2,359	(3)	62.0	(10)
India	440,450	(4)	319	(28)	14,015	(8)	3.2%	(20)	10.2	(27)	4.5%	(4)	134	(23)	11.1	(21)
UK	305,289	(5)	4,498	(12)	42,647	(3)	14.0%	(4)	628.3	(2)	0.5%	(22)	2,644	(2)	19.8	(18)
Spain	293,584	(6)	6,279	(5)	28,324	(6)	9.6%	(7)	605.8	(3)	0.1%	(27)	2,131	(5)	7.9	(23)
Peru	257,447	(7)	7,811	(3)	8,223	(13)	3.2%	(19)	249.5	(9)	1.7%	(14)	679	(15)	120.1	(5)
Chile	246,963	(8)	12,922	(2)	4,502	(19)	1.8%	(24)	235.6	(12)	6.0%	(1)	1,062	(9)	543.2	(1)
Italy	238,720	(9)	3,948	(14)	34,657	(4)	14.5%	(3)	573.2	(4)	0.1%	(29)	928	(10)	4.1	(29)
Iran	207,525	(10)	2,472	(18)	9,742	(9)	4.7%	(14)	116.0	(15)	1.5%	(16)	349	(21)	34.2	(14)
Germany	192,119	(11)	2,293	(20)	8,969	(11)	4.7%	(15)	107.1	(16)	0.4%	(24)	572	(18)	7.6	(25)
Turkey	188,897	(12)	2,240	(21)	4,974	(17)	2.6%	(21)	59.0	(17)	0.8%	(21)	600	(17)	18.1	(19)
Pakistan	181,088	(13)	820	(25)	3,590	(21)	2.0%	(22)	16.3	(26)	4.0%	(6)	151	(22)	27.1	(16)
Mexico	180,545	(14)	1,401	(23)	21,825	(7)	12.1%	(6)	169.3	(14)	3.7%	(7)	86	(25)	42.0	(13)
Saudi Arabia	161,005	(15)	4,627	(10)	1,307	(27)	0.8%	(27)	37.6	(20)	3.4%	(10)	868	(12)	137.4	(4)
France	160,750	(16)	2,463	(19)	29,663	(5)	18.5%	(1)	454.5	(6)	0.4%	(25)	0	(30)	7.7	(24)
Bangladesh	115,786	(17)	703	(26)	1,502	(26)	1.3%	(26)	9.1	(29)	4.2%	(5)	109	(24)	24.5	(17)
Canada	101,637	(18)	2,693	(17)	8,436	(12)	8.3%	(10)	223.6	(13)	0.4%	(23)	1,102	(8)	10.8	(22)
South Africa	101,590	(19)	1,713	(22)	1,991	(25)	2.0%	(23)	33.6	(23)	5.9%	(2)	556	(19)	76.0	(9)
Qatar	88,403	(20)	31,485	(1)	99	(30)	0.1%	(30)	35.3	(22)	1.5%	(17)	1,723	(7)	447.8	(2)
China	83,396	(21)	58	(30)	4,634	(18)	5.6%	(11)	3.2	(30)	0.0%	(30)	0	(28)	0.0	(30)
Colombia	71,183	(22)	1,399	(24)	2,310	(23)	3.2%	(18)	45.4	(19)	5.3%	(3)	352	(20)	56.9	(11)
Belgium	60,550	(23)	5,225	(9)	9,696	(10)	16.0%	(2)	836.7	(1)	0.1%	(28)	918	(11)	6.4	(27)
Belarus	59,023	(24)	6,246	(6)	351	(28)	0.6%	(29)	37.1	(21)	1.3%	(18)	2,160	(4)	76.3	(8)
Sweden	58,932	(25)	5,836	(7)	5,122	(16)	8.7%	(8)	507.2	(5)	2.0%	(12)	858	(13)	103.5	(6)
Egypt	56,809	(26)	555	(27)	2,278	(24)	4.0%	(17)	22.3	(25)	3.5%	(9)	0	(28)	17.1	(20)
Ecuador	50,640	(27)	2,871	(16)	4,223	(20)	8.3%	(9)	239.5	(11)	1.1%	(19)	42	(27)	31.5	(15)
Netherlands	49,658	(28)	2,898	(15)	6,090	(15)	12.3%	(5)	355.4	(8)	0.2%	(26)	727	(14)	7.3	(26)
Indonesia	46,845	(29)	171	(29)	2,500	(22)	5.3%	(12)	9.1	(28)	3.0%	(11)	71	(26)	4.5	(28)
UAE	45,303	(30)	4,582	(11)	303	(29)	0.7%	(28)	30.6	(24)	1.1%	(20)	5,943	(1)	43.5	(12)

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.

