

COVID-19 Dashboard

Issue # 44

Wednesday, May 6, 2020

Day's Highlights

“Strategic Guidance in an Era of Unprecedented Change”

Measure	Desired Change	Yesterday in the U.S.
Number of Tests	Increase	~260,000 tests on Tuesday, averaging 263,000 last 5 days
Test-Positivity Rate	Decline	8.6% on Tuesday
Number of Cases	Plateau	Active Cases up only 1.6% on Tuesday
Deaths % of Total Cases	Decline	Stable @ 5.8%
Number of Deaths / 1M Population	Plateau	Up to 218.34
Recoveries : Death	Increase	Up to 2.9

- The U.S. reported more than 260,000 new tests on Tuesday; the test-positive rate was 8.6%. In comparison, 172,000 tests per day were completed in April, with a test-positive rate of 16.9%
- Twenty-nine states (AL, AS, AZ, CA, FL, GA, HI, ID, KY, LA, ME, MI, MO, MT, NH, NM, NC, ND, OK, OR, SC, TN, TX, UT, VT, WA, WI WV and WY) reported test-positive rate of 10% or less for the past week; the U.S. rate was 10.9% (10% or lower has been suggested as a target threshold). Six states were at 20% or more (CT, DE, MD, NE, NJ and VA). High rates suggest that insufficient testing is being done to provide visibility to the true prevalence of the virus spread
- Twenty-three states are averaging 50 or fewer new daily cases per capita (AS, AK, AL, AZ, CA, FL, HI, ID, KY, ME, MO, MT, NC, NV, OK, OR, SC, TX, UT, VT, WA, WV and WY). Six or averaging 200 or more (IL, MA, NE, NJ, NY and RI)
- Recoveries continue to lag where they should be, given the expected 4-week lag from infection-onset to recovery. Reported recoveries are 211,000; they should be about 320,000, given the total cases identified 4 weeks ago. Is this a reporting lag at the state level?
- The death rate continues to be stable at 5.8% of cases. Deaths per capita in the U.S are comparable to Switzerland but, significantly lower than many European countries.
- Nebraska is of concern: it is the only state not to have broken from exponential case growth; its testing rates are low; its test-positive rate is high (25%) and trending up; and, its new daily infections per capita are high and increasing..
- Delaware and Minnesota now seem to have recently moved past peak active cases – Kentucky, New York, Tennessee, Vermont and Washington seem to be nearing peaks.
- Among countries with the most total cases, most European countries have moved past peaks in both new daily infections per capita and active cases. Several countries– Brazil, Chile, Indi, Mexico, Pakistan, Peru, Russia, Saudi Arabia – are still experiencing increasing rates of new daily infections per capita

COUNTRY-BY-COUNTRY INFORMATION

Country-by-Country Comparative Statistics

“Strategic Guidance in an Era of Unprecedented Change”

As of May 5

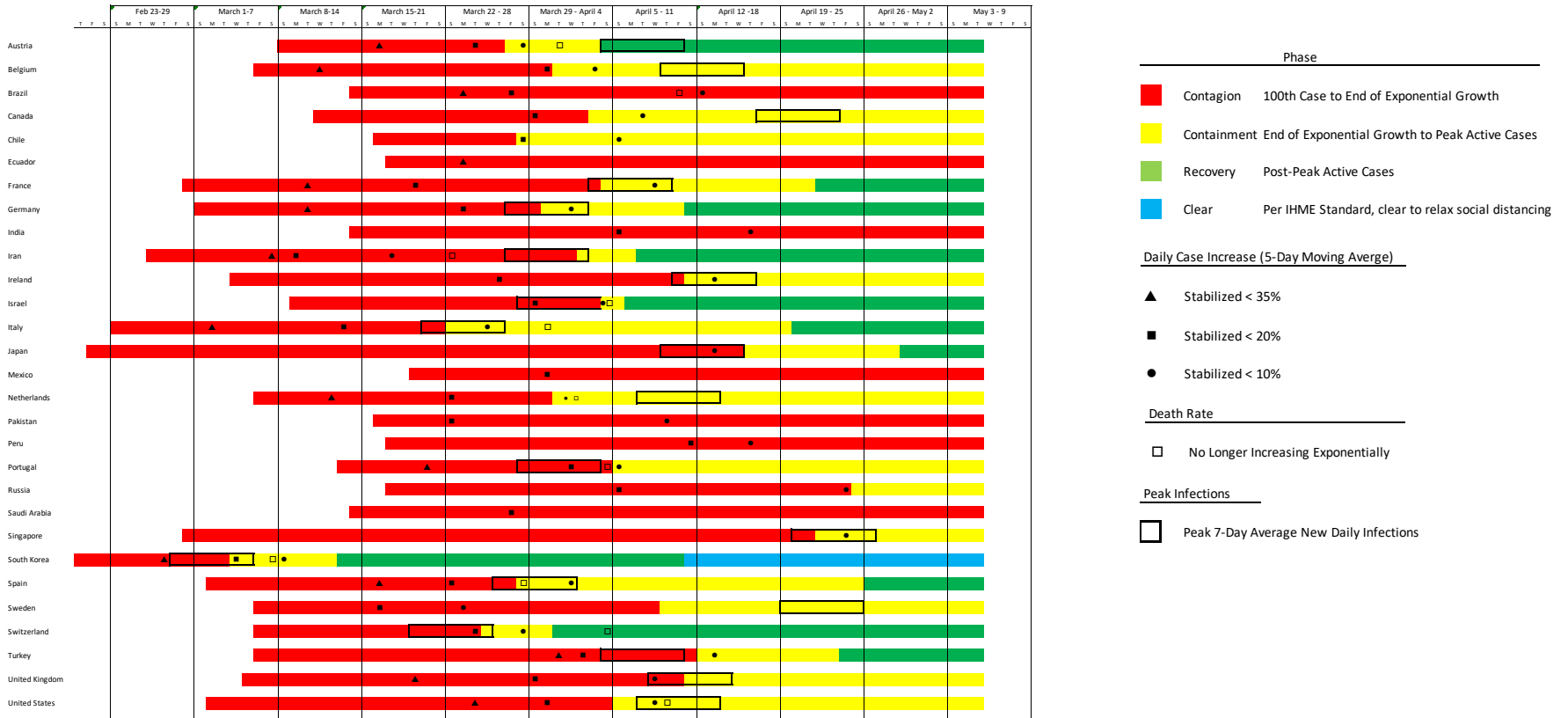
Country	Total Cases	Rank	Cases per 1M Population	Rank	Deaths	Rank	Death Rate	Rank	Deaths per 1 Million Population	Rank	5-day Moving Average Case Growth Rate	Rank	Tests per 1M Population	Rank	New Daily Infections Per 1M Population (5-Day M.A.)	Rank
USA	1,237,633	(1)	3,739	(4)	72,271	(1)	5.8%	(14)	218.3	(9)	2.5%	(13)	23,347	(13)	87.1	(2)
Austria	15,650	(28)	1,738	(16)	606	(23)	3.9%	(19)	67.3	(16)	0.3%	(28)	31,742	(8)	4.6	(26)
Belgium	50,509	(14)	4,358	(3)	8,016	(6)	15.9%	(1)	691.6	(1)	0.8%	(21)	39,362	(5)	39.1	(13)
Brazil	114,715	(9)	540	(24)	7,921	(7)	6.9%	(9)	37.3	(19)	6.1%	(6)	1,597	(25)	28.1	(14)
Canada	62,046	(12)	1,644	(17)	4,043	(12)	6.5%	(10)	107.1	(11)	3.1%	(11)	24,921	(11)	45.5	(11)
Chile	22,016	(24)	1,152	(21)	275	(26)	1.2%	(27)	14.4	(22)	6.1%	(5)	11,618	(21)	57.2	(8)
China	82,881	(11)	58	(29)	4,633	(11)	5.6%	(15)	3.2	(27)	0.0%	(30)	0	(30)	0.0	(30)
Ecuador	31,881	(17)	1,807	(15)	1,569	(18)	4.9%	(16)	88.9	(13)	5.1%	(8)	4,544	(24)	61.7	(5)
France	170,551	(5)	2,613	(9)	25,531	(5)	15.0%	(3)	391.1	(5)	0.4%	(26)	16,856	(15)	10.2	(23)
Germany	167,007	(6)	1,993	(13)	6,993	(8)	4.2%	(17)	83.5	(14)	0.5%	(24)	30,400	(10)	12.1	(21)
India	49,400	(15)	36	(30)	1,693	(17)	3.4%	(21)	1.2	(30)	7.6%	(2)	864	(28)	1.9	(27)
Iran	99,970	(10)	1,190	(20)	6,340	(9)	6.3%	(11)	75.5	(15)	1.1%	(18)	6,186	(23)	12.6	(19)
Ireland	21,983	(25)	4,452	(2)	1,339	(21)	6.1%	(12)	271.2	(8)	1.3%	(17)	43,493	(3)	60.9	(6)
Israel	16,289	(27)	1,882	(14)	238	(28)	1.5%	(26)	27.5	(20)	0.4%	(25)	48,189	(1)	9.3	(24)
Italy	213,013	(3)	3,523	(5)	29,315	(3)	13.8%	(4)	484.9	(3)	0.7%	(22)	37,158	(6)	27.2	(15)
Japan	15,253	(29)	121	(27)	556	(24)	3.6%	(20)	4.4	(26)	1.5%	(15)	1,473	(26)	1.7	(28)
Mexico	24,905	(21)	193	(26)	2,271	(15)	9.1%	(8)	17.6	(21)	6.3%	(4)	776	(29)	10.4	(22)
Netherlands	41,087	(16)	2,398	(11)	5,168	(10)	12.6%	(5)	301.6	(6)	0.9%	(20)	13,768	(18)	22.3	(17)
Pakistan	22,049	(23)	100	(28)	514	(25)	2.3%	(25)	2.3	(29)	5.0%	(9)	1,007	(27)	4.8	(25)
Peru	51,189	(13)	1,553	(18)	1,444	(20)	2.8%	(22)	43.8	(17)	6.4%	(3)	12,331	(20)	86.7	(3)
Portugal	25,702	(20)	2,521	(10)	1,074	(22)	4.2%	(18)	105.3	(12)	0.5%	(23)	46,038	(2)	20.7	(18)
Russia	155,370	(7)	1,036	(22)	1,451	(19)	0.9%	(28)	9.7	(23)	7.8%	(1)	30,564	(9)	58.9	(7)
Saudi Arabia	30,251	(18)	869	(23)	200	(29)	0.7%	(29)	5.7	(24)	5.9%	(7)	10,818	(22)	41.7	(12)
Singapore	19,410	(26)	3,318	(7)	18	(30)	0.1%	(30)	3.1	(28)	3.4%	(10)	24,600	(12)	108.9	(1)
South Korea	10,804	(30)	211	(25)	254	(27)	2.4%	(24)	5.0	(25)	0.1%	(29)	12,488	(19)	0.1	(29)
Spain	250,561	(2)	5,359	(1)	25,613	(4)	10.2%	(7)	547.8	(2)	0.9%	(19)	41,332	(4)	56.3	(9)
Sweden	23,216	(22)	2,299	(12)	2,894	(14)	12.5%	(6)	286.6	(7)	1.9%	(14)	14,704	(16)	50.9	(10)
Switzerland	30,009	(19)	3,504	(6)	1,795	(16)	6.0%	(13)	209.6	(10)	0.3%	(27)	33,092	(7)	12.4	(20)
Turkey	129,491	(8)	1,535	(19)	3,520	(13)	2.7%	(23)	41.7	(18)	1.5%	(16)	14,281	(17)	25.1	(16)
UK	194,990	(4)	2,872	(8)	29,427	(2)	15.1%	(2)	433.5	(4)	2.6%	(12)	20,385	(14)	71.2	(4)

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Country-by-Country Virus Progression

“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.



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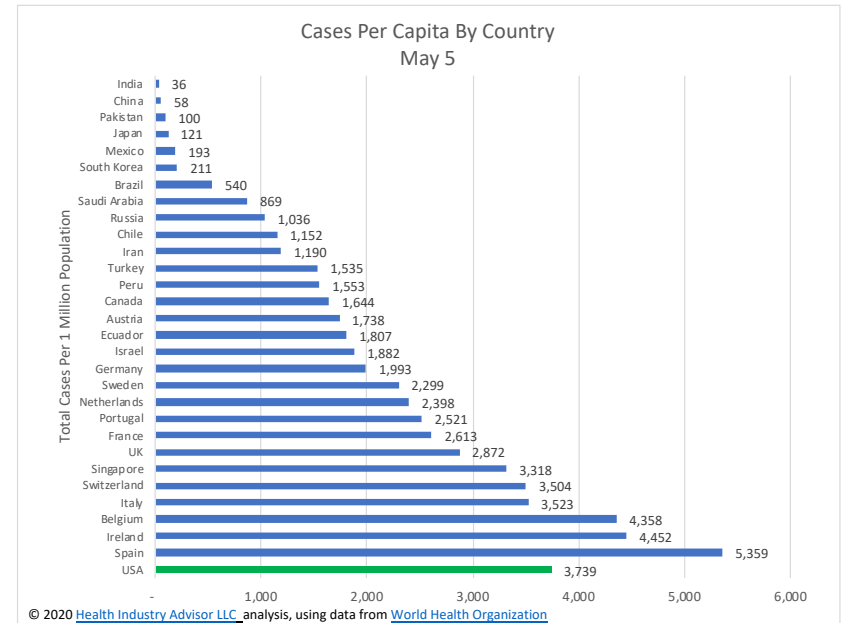
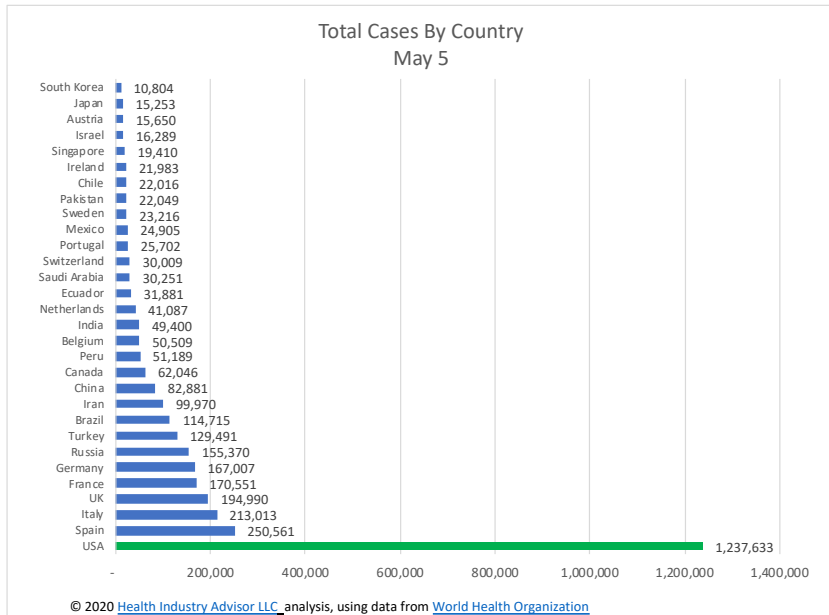
Country-By-Country Listing of Countries By Total Cases

“Strategic Guidance in an Era of Unprecedented Change”

	Total Cases				
	5-May		22-Apr		8-Apr
1 USA	1,237,633	USA	854,385	USA	441,569
2 Spain	250,561	Spain	208,389	Spain	148,220
3 Italy	213,013	Italy	187,327	Italy	139,422
4 UK	194,990	France	159,877	Germany	113,296
5 France	170,551	Germany	150,648	France	103,061
6 Germany	167,007	UK	133,495	China	81,865
7 Russia	155,370	Turkey	98,674	Iran	64,586
8 Turkey	129,491	Iran	85,996	UK	60,733
9 Brazil	114,715	China	82,788	Turkey	38,226
10 Iran	99,970	Russia	57,999	Belgium	23,403
11 China	82,881	Brazil	45,757	Switzerland	23,280
12 Canada	62,046	Belgium	41,889	Netherlands	20,549
13 Peru	51,189	Canada	40,190	Canada	19,438
14 Belgium	50,509	Netherlands	34,842	Brazil	16,188
15 India	49,400	Switzerland	28,268	Portugal	13,141
16 Netherlands	41,087	Portugal	21,982	Austria	12,942
17 Ecuador	31,881	India	21,370	South Korea	10,384
18 Saudi Arabia	30,251	Peru	19,250	Israel	9,404
19 Switzerland	30,009	Ireland	16,671	Russia	8,672
20 Portugal	25,702	Sweden	16,004	Sweden	8,419
21 Mexico	24,905	Austria	14,925	Ireland	6,074
22 Sweden	23,216	Israel	14,498	India	5,916
23 Pakistan	22,049	Saudi Arabia	12,772	Chile	5,546
24 Chile	22,016	Japan	11,950	Japan	4,667
25 Ireland	21,983	Chile	11,296	Ecuador	4,450
26 Singapore	19,410	Ecuador	10,850	Peru	4,342
29 Israel	16,289	South Korea	10,694	Pakistan	4,263
30 Austria	15,650	Singapore	10,141	Saudi Arabia	2,932
31 Japan	15,253	Pakistan	10,076	Mexico	2,785
37 South Korea	10,804	Mexico	9,501	Singapore	1,623

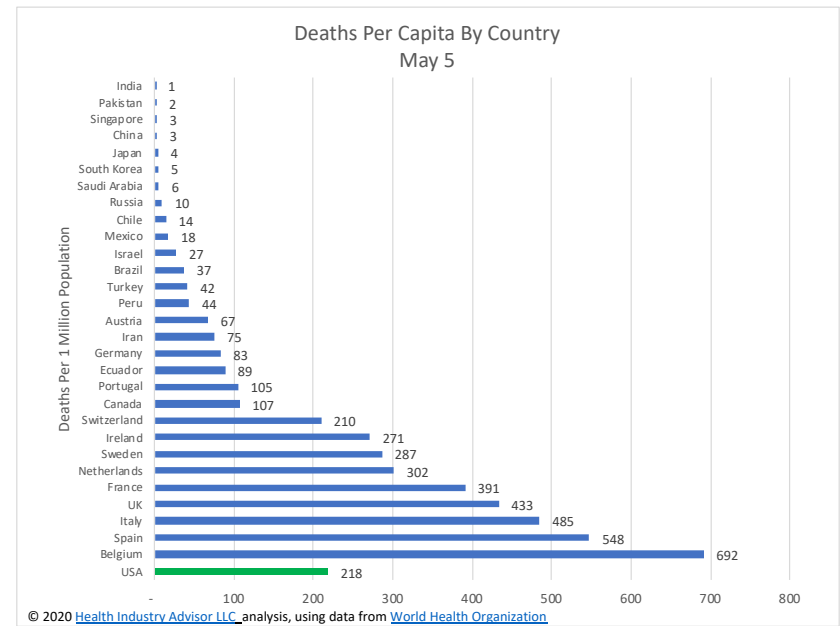
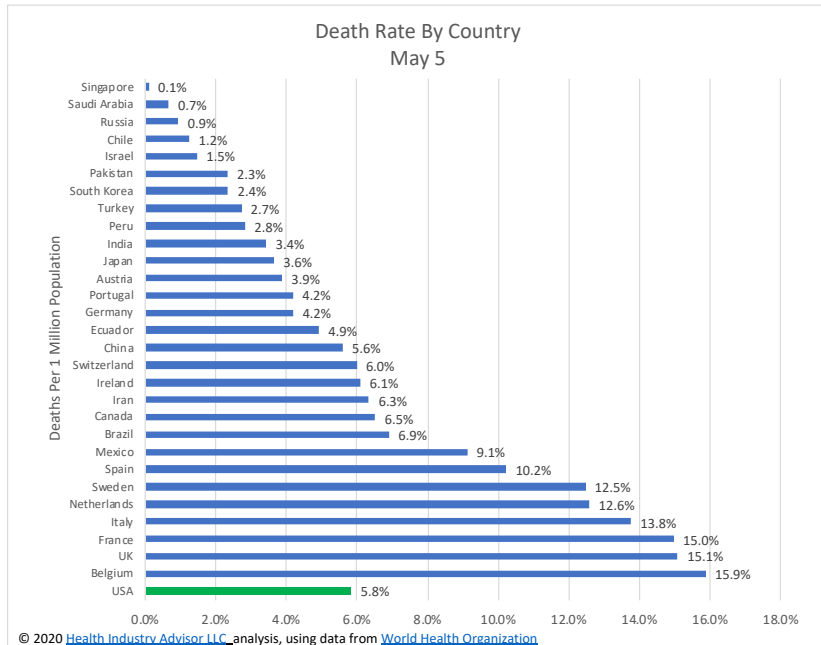
Country-by-Country Cases & Cases Per Capita

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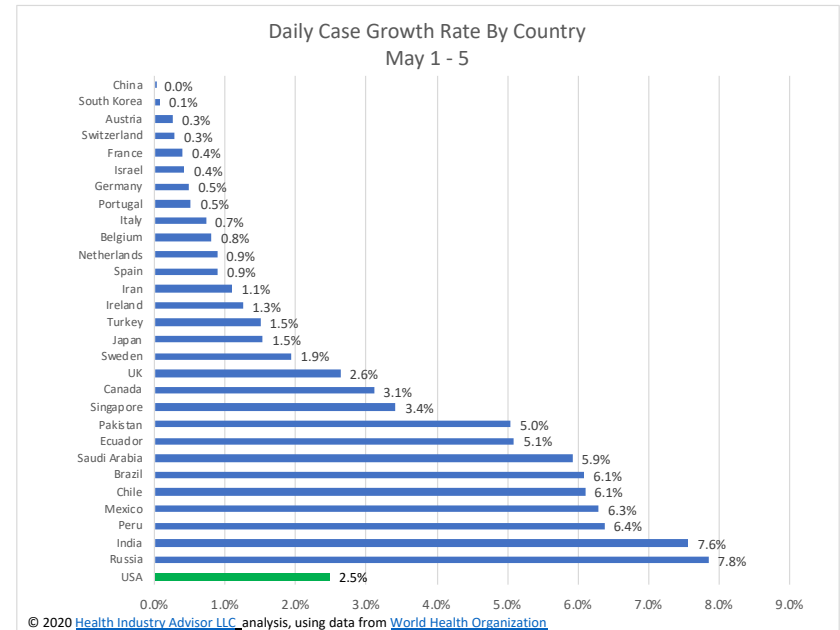
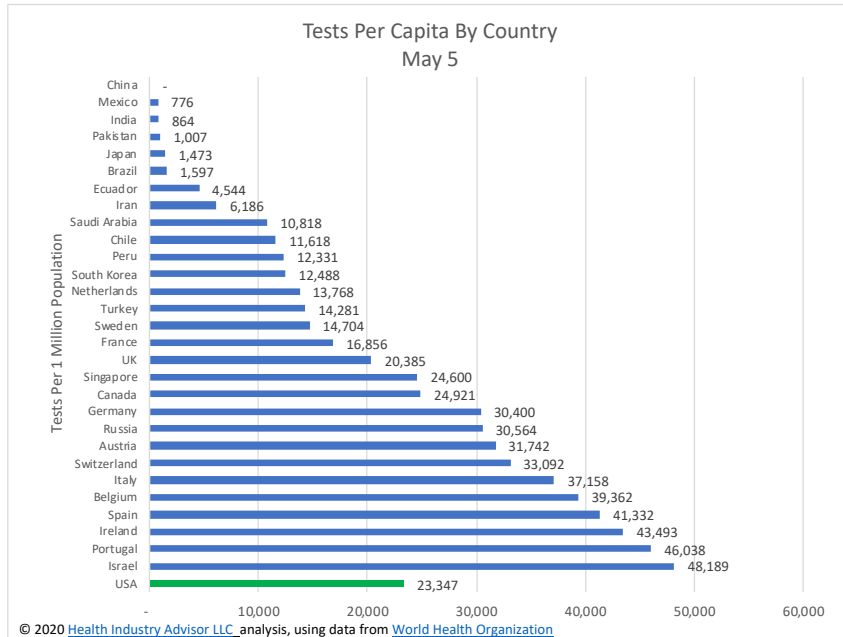
Country-by-Country Deaths Per Cases & Per Capita

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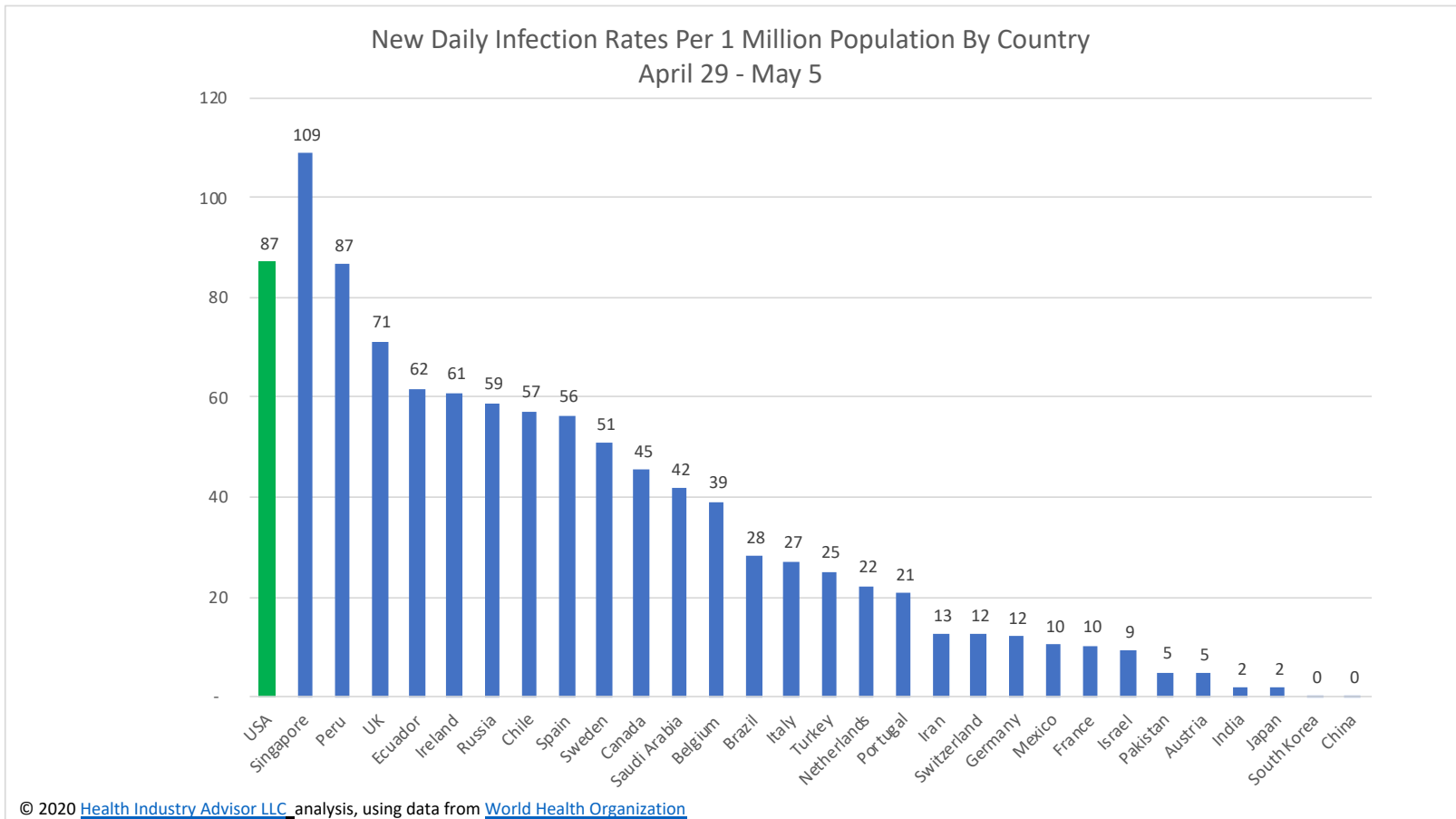
Country-by-Country Tests Per Capita & Case Growth Rate

“Strategic Guidance in an Era of Unprecedented Change”



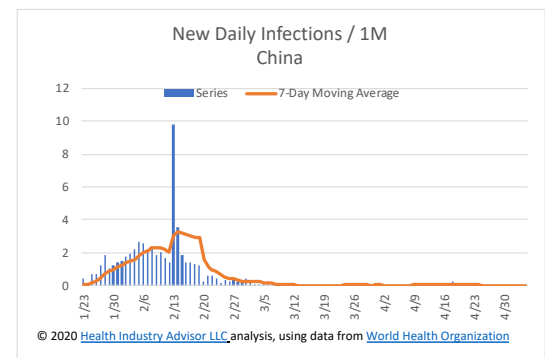
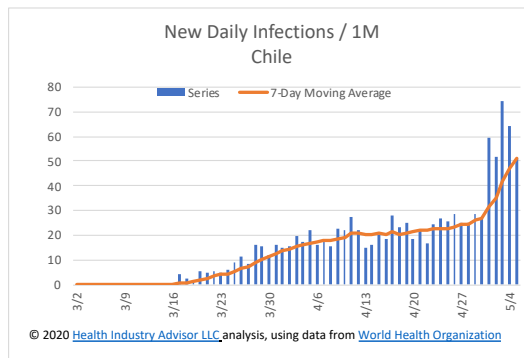
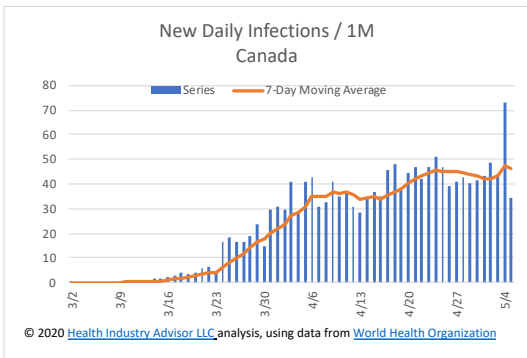
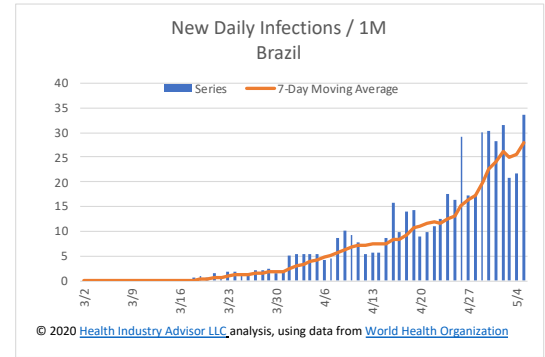
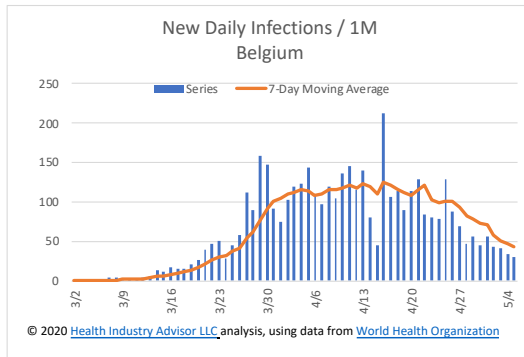
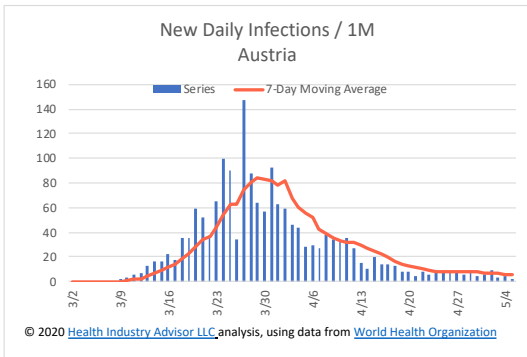
Country-by-Country New Daily Infection Rate

“Strategic Guidance in an Era of Unprecedented Change”



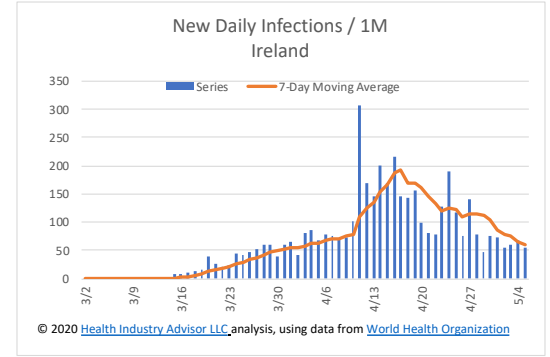
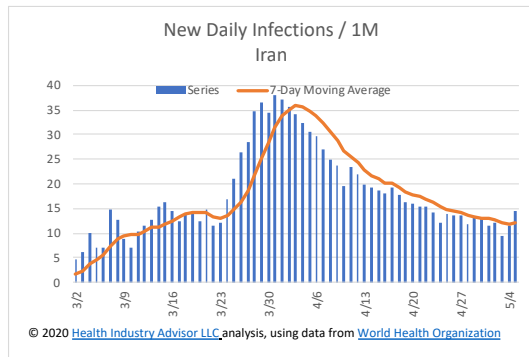
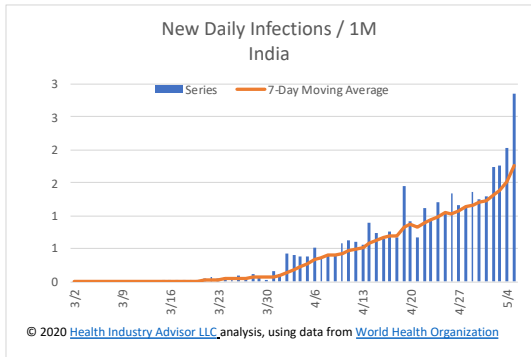
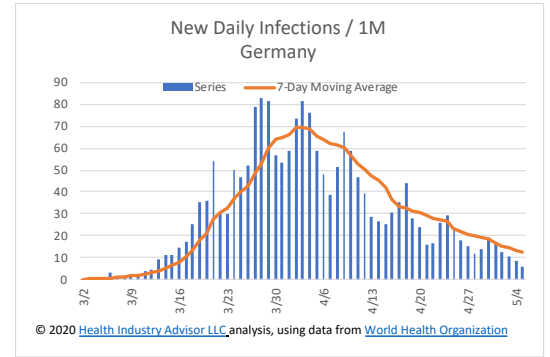
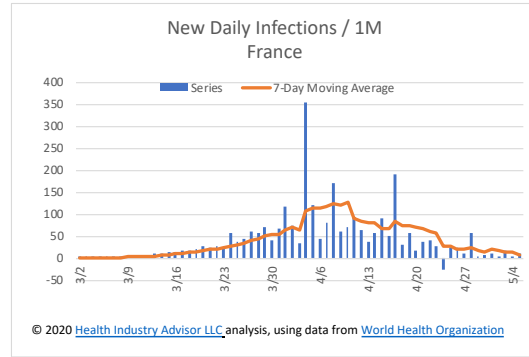
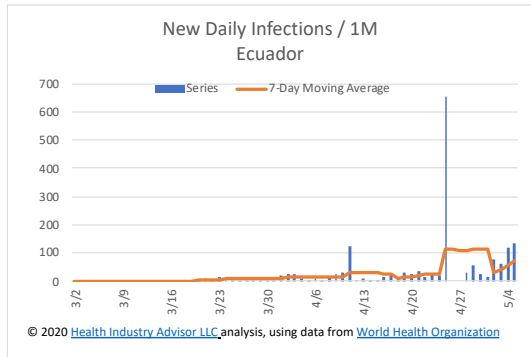
Country-by-Country New Daily Infection Rate Time Series

"Strategic Guidance in an Era of Unprecedented Change"



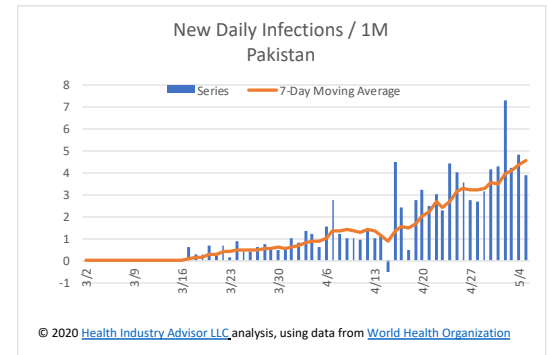
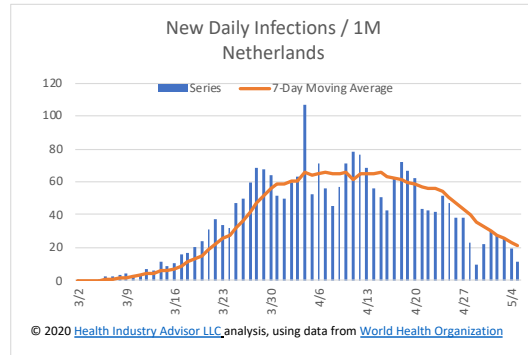
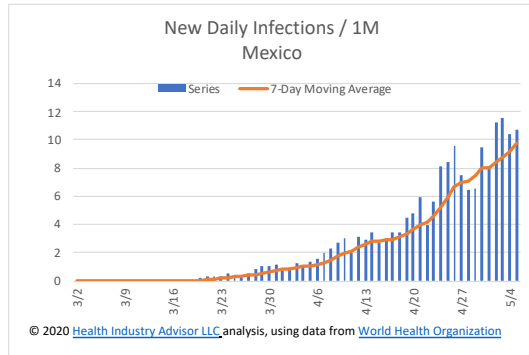
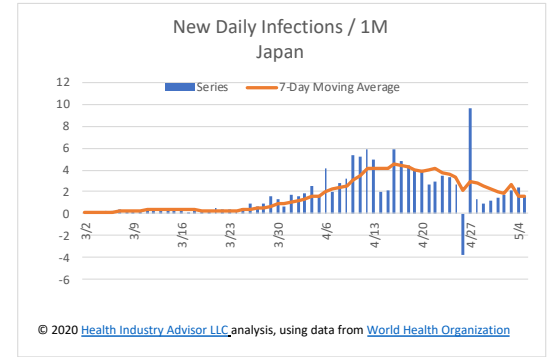
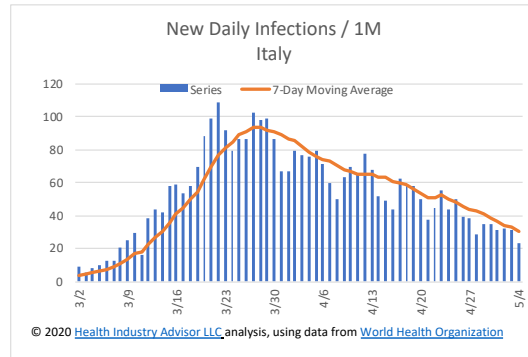
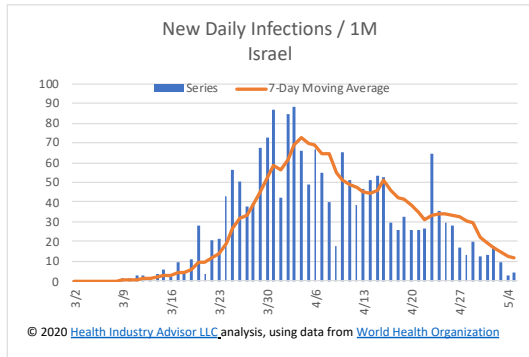
New Daily Infection Rate Time Series

“Strategic Guidance in an Era of Unprecedented Change”



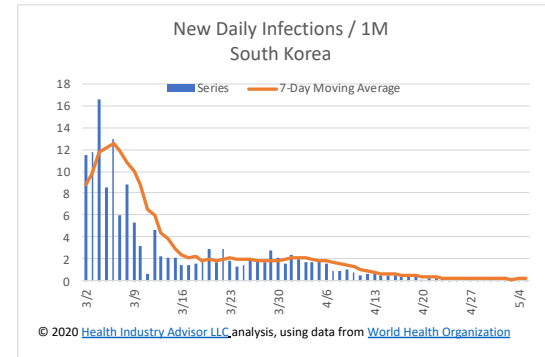
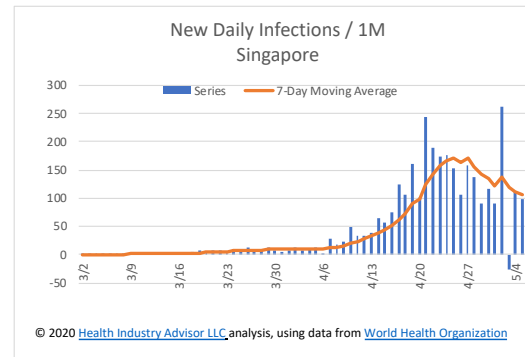
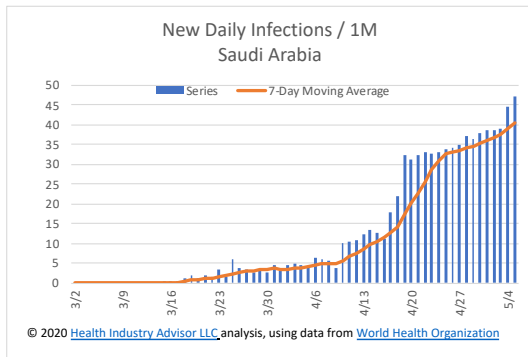
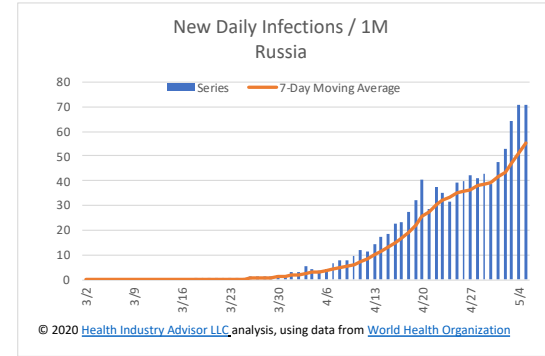
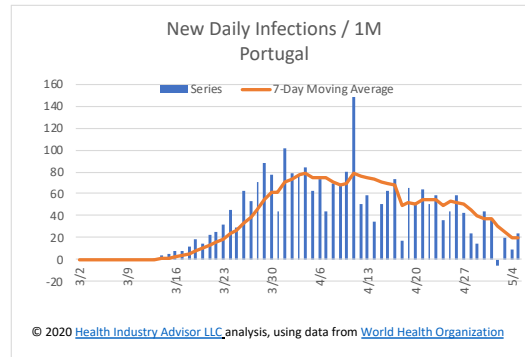
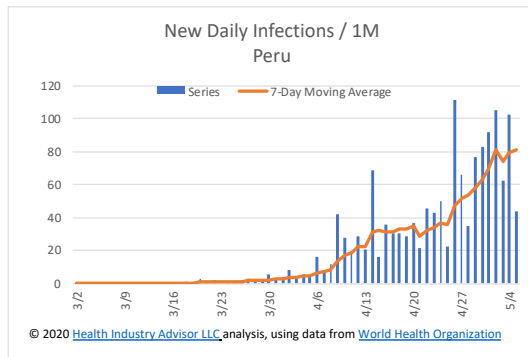
New Daily Infection Rate Time Series

“Strategic Guidance in an Era of Unprecedented Change”



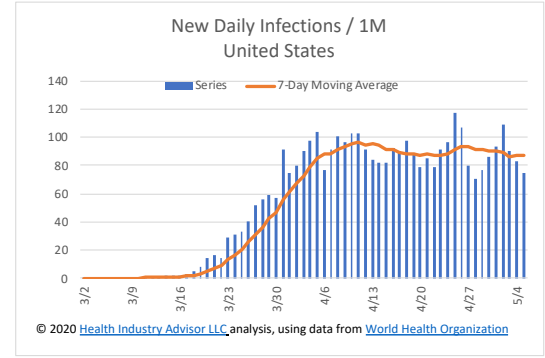
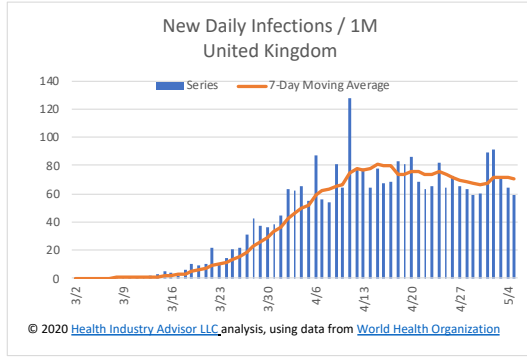
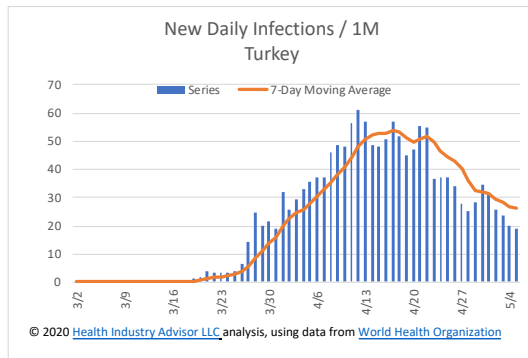
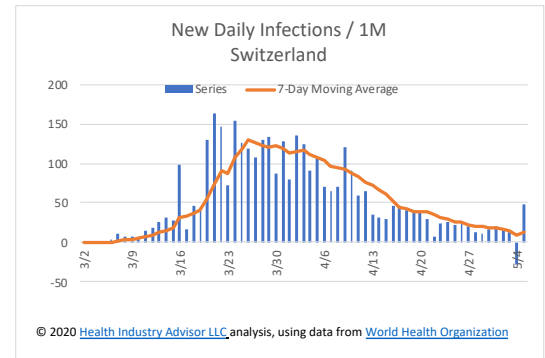
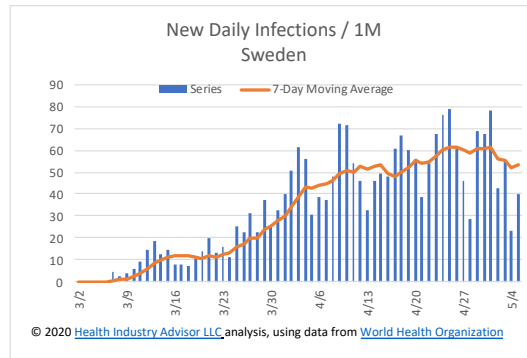
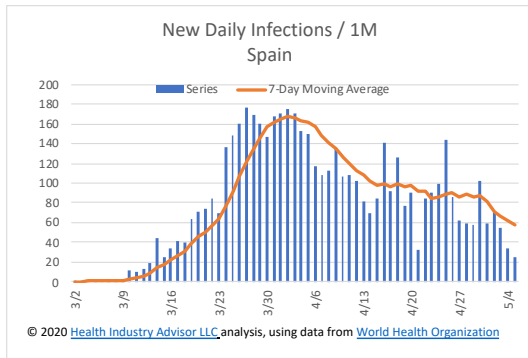
New Daily Infection Rate Time Series

“Strategic Guidance in an Era of Unprecedented Change”



New Daily Infection Rate Time Series

“Strategic Guidance in an Era of Unprecedented Change”



UNITED STATES & STATE-BY-STATE INFORMATION

State-by-State Readiness For Relaxing Restrictions

“Strategic Guidance in an Era of Unprecedented Change”

We modified the tests/capita metric in two ways: first, we changed to tests/capita past 2 weeks (v. cumulative); second, we adopted the Harvard based study of susceptible-infected-recovered model (SEIR) identification of a goal of 2.7% of population tested per week; and, a minimum of 1520 tests per 1 million population. This will serve as a more challenging standard.

- We recently introduced a scorecard to provide a snapshot of each state’s readiness for relaxing restrictions on businesses and individuals.
- To portray readiness we have incorporated the following measures into to the scorecard, (along with the rationale for the scoring within each measure):
 - Tests/Capita – last 14 days; indicates testing robustness; grading quintiles based on Harvard study using susceptible-infected-recovered model (SEIR) 2.7% of population tested per week, 1%, 0.7%, 0.35%, all others
 - Direction – whether test volume increased/stayed level, or decreased the past 2 weeks v. prior two weeks
 - Test-Positive Rate – indicates whether testing is identifying sufficient numbers of non-infected persons; grading based on comparison to best reported in the world (South Korea, Australia, New Zealand), next group of countries (Canada, Germany, Denmark), then, next 3 levels set to differentiate among states
 - Direction – whether test positive rate increased/stayed level, or past 2 weeks v. prior two weeks
 - New Infections / 1 Million – indicates how quickly the virus is spreading; grading based on: rate proposed by IHME for ending social distancing, top ten, top 20, top 25 among the countries we track, then all others
 - Direction – whether new infection per capita rate increased/stayed level, or past 2 weeks v. prior two weeks
 - Influenza-Like Illness – Using CDC-reported data, indicates whether the state’s visits for influenza the past week were above or below CDC baseline for the state’s region
 - Direction – whether the % visits for influenza the last 3 weeks increased or decreased the past 3 weeks v. the prior 3 weeks
 - Hospital Resources – using IHME projections, whether the state is pre- or post- peak projected hospital resource needs due to the virus; and the 5 of peak resources projected to be needed today. Grading based on current need at <45% of peak, 45-60%, 60-75%, 75-85%, and all others.
- On the following pages, we portray state-by-state readiness on various dates.
- **These scorecards are for informational purposes only. The measures and grading used are not based on any scientific standard and should not be considered a substitute for public health considerations or other clinical or economic judgement. States may elect to move faster or slower than the scorecard might otherwise indicate.**

State-By-State Relative "Readiness" For Relaxing Restrictions

"Strategic Guidance in an Era of Unprecedented Change"

May 5

State	Tests / Capita		Test-Positive Rate		New Infections / 1 Million		Influenza-Like Illness		Hospital Resources
	#	Direction	#	Direction	#	Direction	Baseline	Direction	
Alabama	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Alaska	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Arizona	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Arkansas	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
California	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Colorado	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Connecticut	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Delaware	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
District Of Columbia	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Florida	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Georgia	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Hawaii	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Idaho	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Illinois	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Indiana	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Iowa	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Kansas	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Kentucky	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Louisiana	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Maine	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Maryland	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Massachusetts	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Michigan	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Minnesota	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Mississippi	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Missouri	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Montana	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Nebraska	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Nevada	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
New Hampshire	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
New Jersey	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
New Mexico	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
New York	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
North Carolina	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
North Dakota	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Ohio	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Oklahoma	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Oregon	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Pennsylvania	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Rhode Island	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
South Carolina	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
South Dakota	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Tennessee	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Texas	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Utah	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Vermont	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Virginia	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Washington	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
West Virginia	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Wisconsin	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Wyoming	Yellow	Green	Green	Green	Green	Green	Green	Green	Green

April 30

State	Tests / Capita		Test-Positive Rate		New Infections / 1 Million		Influenza-Like Illness		Hospital Resources
	#	Direction	#	Direction	#	Direction	Baseline	Direction	
Alabama	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Alaska	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Arizona	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Arkansas	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
California	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Colorado	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Connecticut	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Delaware	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
District Of Columbia	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Florida	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Georgia	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Hawaii	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Idaho	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Illinois	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Indiana	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Iowa	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Kansas	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Kentucky	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Louisiana	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Maine	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Maryland	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Massachusetts	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Michigan	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Minnesota	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Mississippi	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Missouri	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Montana	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Nebraska	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Nevada	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
New Hampshire	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
New Jersey	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
New Mexico	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
New York	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
North Carolina	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
North Dakota	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Ohio	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Oklahoma	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Oregon	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Pennsylvania	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Rhode Island	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
South Carolina	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
South Dakota	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Tennessee	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Texas	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Utah	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Vermont	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Virginia	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Washington	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
West Virginia	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Wisconsin	Yellow	Green	Green	Green	Green	Green	Green	Green	Green
Wyoming	Yellow	Green	Green	Green	Green	Green	Green	Green	Green

Legend and sources provided on 2nd following page

State-By-State Relative "Readiness" For Relaxing Restrictions

"Strategic Guidance in an Era of Unprecedented Change"

April 26

State	Tests / Capita		Test-Positive Rate		New Infections / 1 Million		Influenza-Like Illness		Hospital Resources
	#	Direction	#	Direction	#	Direction	Baseline	Direction	
Alabama	Red	Green	Green	Green	Green	Red	Green	Green	Red
Alaska	Red	Green	Green	Green	Green	Red	Green	Green	Red
Arizona	Red	Green	Green	Green	Green	Red	Green	Green	Red
Arkansas	Red	Green	Green	Green	Green	Red	Green	Green	Red
California	Red	Green	Green	Green	Green	Red	Green	Green	Red
Colorado	Red	Green	Green	Green	Green	Red	Green	Green	Red
Connecticut	Red	Green	Green	Red	Red	Red	Green	Green	Red
Delaware	Red	Green	Green	Red	Red	Red	Green	Green	Red
District Of Columbia	Red	Green	Green	Green	Green	Red	Green	Green	Red
Florida	Red	Green	Green	Green	Green	Red	Green	Green	Red
Georgia	Red	Green	Green	Green	Green	Red	Green	Green	Red
Hawaii	Red	Green	Green	Green	Green	Red	Green	Green	Red
Idaho	Red	Green	Green	Red	Red	Red	Green	Green	Red
Illinois	Red	Green	Green	Red	Red	Red	Green	Green	Red
Indiana	Red	Green	Green	Red	Red	Red	Green	Green	Red
Iowa	Red	Green	Green	Red	Red	Red	Green	Green	Red
Kansas	Red	Green	Green	Red	Red	Red	Green	Green	Red
Kentucky	Red	Green	Green	Green	Green	Red	Green	Green	Red
Louisiana	Red	Green	Green	Red	Red	Red	Green	Green	Red
Maine	Red	Green	Green	Red	Red	Red	Green	Green	Red
Maryland	Red	Green	Green	Red	Red	Red	Green	Green	Red
Massachusetts	Red	Green	Green	Green	Green	Red	Green	Green	Red
Michigan	Red	Green	Green	Red	Red	Red	Green	Green	Red
Minnesota	Red	Green	Green	Red	Red	Red	Green	Green	Red
Mississippi	Red	Green	Green	Red	Red	Red	Green	Green	Red
Missouri	Red	Green	Green	Green	Green	Red	Green	Green	Red
Montana	Red	Green	Green	Red	Red	Red	Green	Green	Red
Nebraska	Red	Green	Green	Red	Red	Red	Green	Green	Red
Nevada	Red	Green	Green	Red	Red	Red	Green	Green	Red
New Hampshire	Red	Green	Green	Green	Green	Red	Green	Green	Red
New Jersey	Red	Green	Green	Red	Red	Red	Green	Green	Red
New Mexico	Red	Green	Green	Red	Red	Red	Green	Green	Red
New York	Red	Green	Green	Red	Red	Red	Green	Green	Red
North Carolina	Red	Green	Green	Red	Red	Red	Green	Green	Red
North Dakota	Red	Green	Green	Red	Red	Red	Green	Green	Red
Ohio	Red	Green	Green	Red	Red	Red	Green	Green	Red
Oklahoma	Red	Green	Green	Red	Red	Red	Green	Green	Red
Oregon	Red	Green	Green	Red	Red	Red	Green	Green	Red
Pennsylvania	Red	Green	Green	Red	Red	Red	Green	Green	Red
Rhode Island	Red	Green	Green	Red	Red	Red	Green	Green	Red
South Carolina	Red	Green	Green	Red	Red	Red	Green	Green	Red
South Dakota	Red	Green	Green	Red	Red	Red	Green	Green	Red
Tennessee	Red	Green	Green	Red	Red	Red	Green	Green	Red
Texas	Red	Green	Green	Red	Red	Red	Green	Green	Red
Utah	Red	Green	Green	Red	Red	Red	Green	Green	Red
Vermont	Red	Green	Green	Red	Red	Red	Green	Green	Red
Virginia	Red	Green	Green	Red	Red	Red	Green	Green	Red
Washington	Red	Green	Green	Red	Red	Red	Green	Green	Red
West Virginia	Red	Green	Green	Red	Red	Red	Green	Green	Red
Wisconsin	Red	Green	Green	Red	Red	Red	Green	Green	Red
Wyoming	Red	Green	Green	Red	Red	Red	Green	Green	Red

April 15






State	Tests / Capita		Test-Positive Rate		New Infections / 1 Million		Influenza-Like Illness		Hospital Resources
	#	Direction	#	Direction	#	Direction	Baseline	Direction	
Alabama	Red	Green	Green	Green	Green	Red	Green	Green	Red
Alaska	Red	Green	Green	Green	Green	Red	Green	Green	Red
Arizona	Red	Green	Green	Green	Green	Red	Green	Green	Red
Arkansas	Red	Green	Green	Green	Green	Red	Green	Green	Red
California	Red	Green	Green	Green	Green	Red	Green	Green	Red
Colorado	Red	Green	Green	Red	Red	Red	Green	Green	Red
Connecticut	Red	Green	Green	Red	Red	Red	Green	Green	Red
Delaware	Red	Green	Green	Red	Red	Red	Green	Green	Red
District Of Columbia	Red	Green	Green	Green	Green	Red	Green	Green	Red
Florida	Red	Green	Green	Green	Green	Red	Green	Green	Red
Georgia	Red	Green	Green	Red	Red	Red	Green	Green	Red
Hawaii	Red	Green	Green	Green	Green	Red	Green	Green	Red
Idaho	Red	Green	Green	Red	Red	Red	Green	Green	Red
Illinois	Red	Green	Green	Red	Red	Red	Green	Green	Red
Indiana	Red	Green	Green	Red	Red	Red	Green	Green	Red
Iowa	Red	Green	Green	Red	Red	Red	Green	Green	Red
Kansas	Red	Green	Green	Red	Red	Red	Green	Green	Red
Kentucky	Red	Green	Green	Green	Green	Red	Green	Green	Red
Louisiana	Red	Green	Green	Red	Red	Red	Green	Green	Red
Maine	Red	Green	Green	Red	Red	Red	Green	Green	Red
Maryland	Red	Green	Green	Red	Red	Red	Green	Green	Red
Massachusetts	Red	Green	Green	Green	Green	Red	Green	Green	Red
Michigan	Red	Green	Green	Red	Red	Red	Green	Green	Red
Minnesota	Red	Green	Green	Red	Red	Red	Green	Green	Red
Mississippi	Red	Green	Green	Red	Red	Red	Green	Green	Red
Missouri	Red	Green	Green	Green	Green	Red	Green	Green	Red
Montana	Red	Green	Green	Red	Red	Red	Green	Green	Red
Nebraska	Red	Green	Green	Red	Red	Red	Green	Green	Red
Nevada	Red	Green	Green	Red	Red	Red	Green	Green	Red
New Hampshire	Red	Green	Green	Green	Green	Red	Green	Green	Red
New Jersey	Red	Green	Green	Red	Red	Red	Green	Green	Red
New Mexico	Red	Green	Green	Red	Red	Red	Green	Green	Red
New York	Red	Green	Green	Red	Red	Red	Green	Green	Red
North Carolina	Red	Green	Green	Red	Red	Red	Green	Green	Red
North Dakota	Red	Green	Green	Red	Red	Red	Green	Green	Red
Ohio	Red	Green	Green	Red	Red	Red	Green	Green	Red
Oklahoma	Red	Green	Green	Red	Red	Red	Green	Green	Red
Oregon	Red	Green	Green	Red	Red	Red	Green	Green	Red
Pennsylvania	Red	Green	Green	Red	Red	Red	Green	Green	Red
Rhode Island	Red	Green	Green	Red	Red	Red	Green	Green	Red
South Carolina	Red	Green	Green	Red	Red	Red	Green	Green	Red
South Dakota	Red	Green	Green	Red	Red	Red	Green	Green	Red
Tennessee	Red	Green	Green	Red	Red	Red	Green	Green	Red
Texas	Red	Green	Green	Red	Red	Red	Green	Green	Red
Utah	Red	Green	Green	Red	Red	Red	Green	Green	Red
Vermont	Red	Green	Green	Red	Red	Red	Green	Green	Red
Virginia	Red	Green	Green	Red	Red	Red	Green	Green	Red
Washington	Red	Green	Green	Red	Red	Red	Green	Green	Red
West Virginia	Red	Green	Green	Red	Red	Red	Green	Green	Red
Wisconsin	Red	Green	Green	Red	Red	Red	Green	Green	Red
Wyoming	Red	Green	Green	Red	Red	Red	Green	Green	Red

Legend and sources provided on following page

State-By-State Relative "Readiness" For Relaxing Restrictions

"Strategic Guidance in an Era of Unprecedented Change"

Legend:

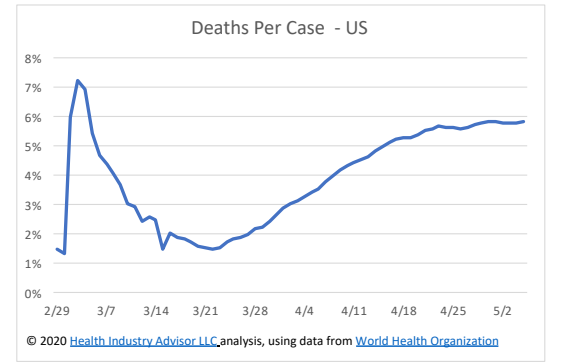
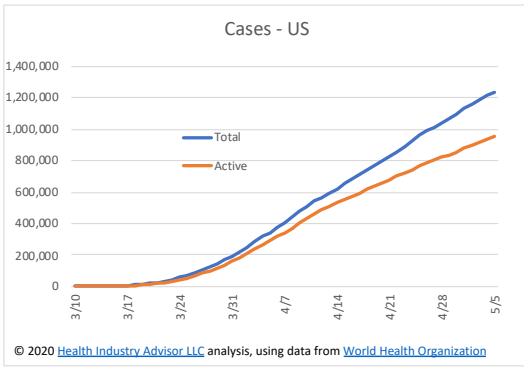
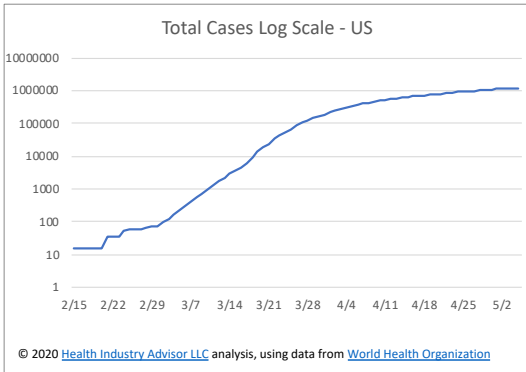
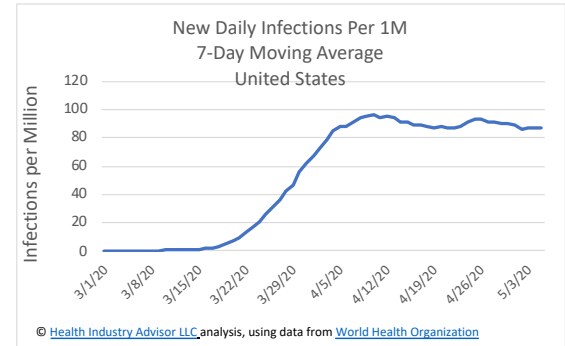
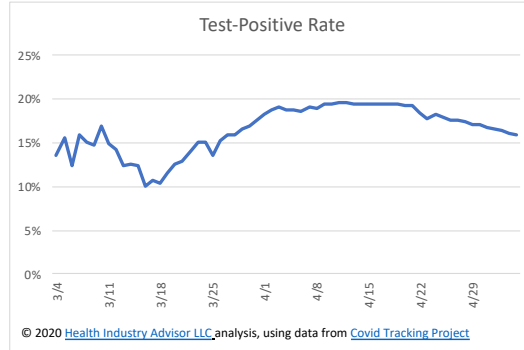
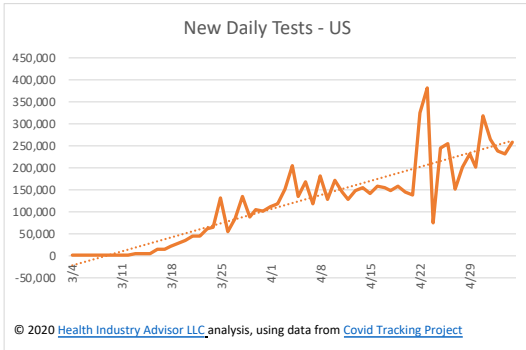
Time period	Tests per Capita		Test-Positive Rate		New Daily Infection Rate		Baseline		Hospital Resources
	Average last 2 weeks	Direction last 14 days v prior 2 weeks	last 7 days	Direction last 14 days v prior 2 weeks	per 1M last 7 days	Direction last 14 days v prior 2 weeks	CDC Baseline by region	Direction last 14 days v prior 2 weeks	As of 4/26
	>3,850	Up	<=2%	Down	<10	Down by 40%	Below Baseline	Down	<45% of Peak
	1520 - 3,850	Up	2-10%	Down	10-50	Down by 10%	Below Baseline	N/A	45-60% of Peak
	1,501 - 3,850	Up	10-14%	Down	50-100	Down <10% or Up	Below Baseline	N/A	60-75% of Peak
	501 - 1,500	Up	14-18%	Down	100-150	Down <10% or Up	Below Baseline	N/A	75-85% of peak
	<750	Down	>18%	Up	>150	Down <10% or Up	Above Baseline	Up	>85% of Peak or Pre-Peak

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Sources:

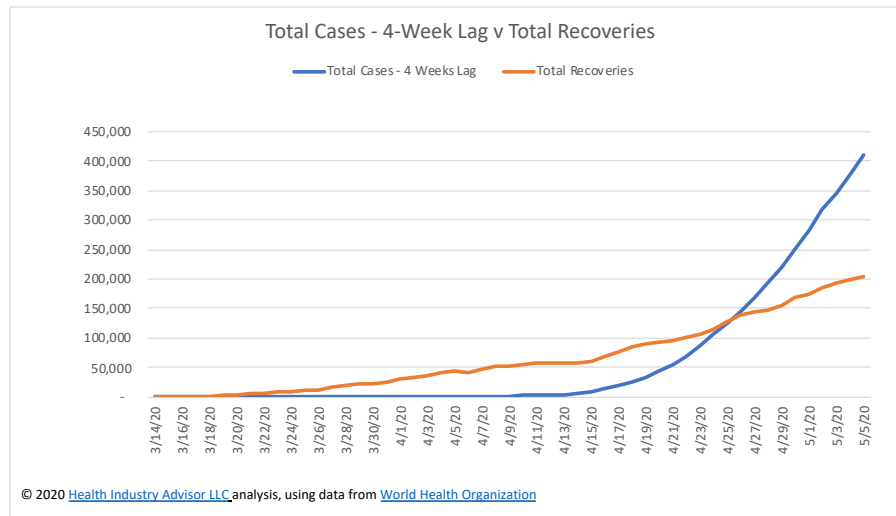
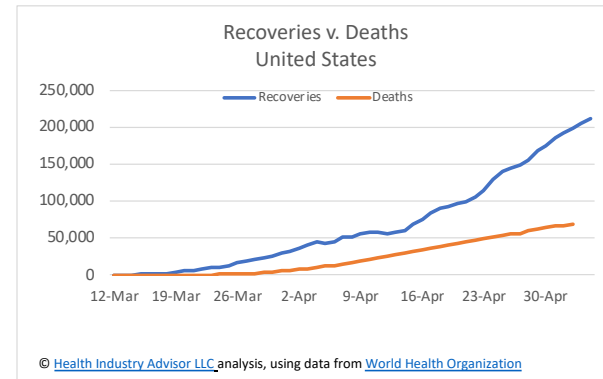
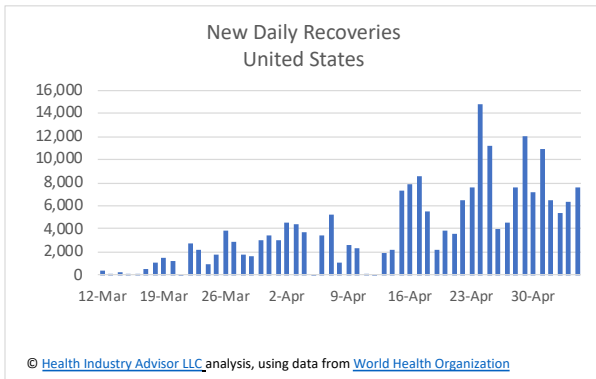
Influenza guidelines and data from Centers for Disease Control (<https://gis.cdc.gov/grasp/fluview/fluportal/dashboard.html>), accessed April 30, 2020
 Test data from Covid Tracking Project (<https://covidtracking.com/>), accessed March 21-May 2, 2020
 Hospital resource Need projections from Institute for Health Metrics and Evaluation (<https://www.ihme.washington.edu/>), accessed April 30, 2020
 Infection rate data from World Health Organization (worldometer.info), accessed March 21-May 2, 2020

“Strategic Guidance in an Era of Unprecedented Change”



United States Recoveries

“Strategic Guidance in an Era of Unprecedented Change”



State-by-State Comparative Statistics

“Strategic Guidance in an Era of Unprecedented Change”

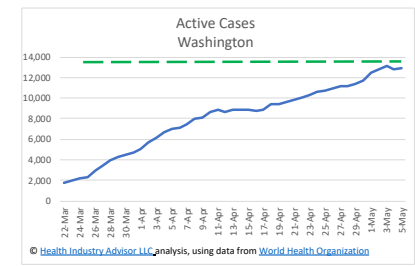
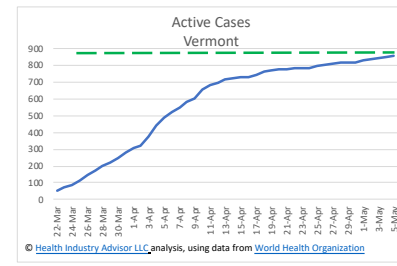
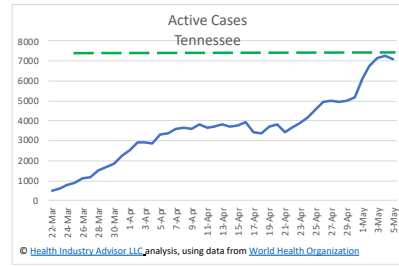
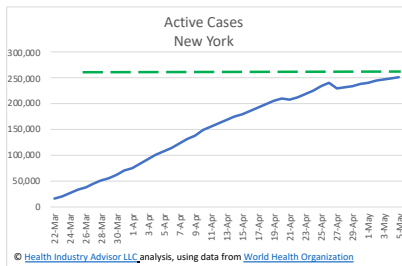
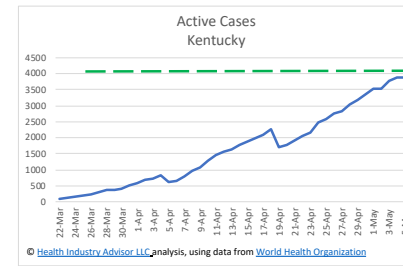
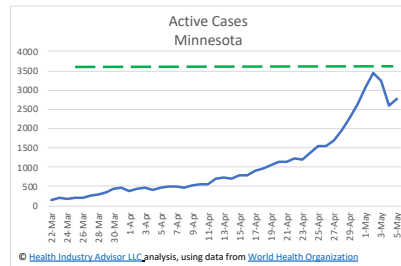
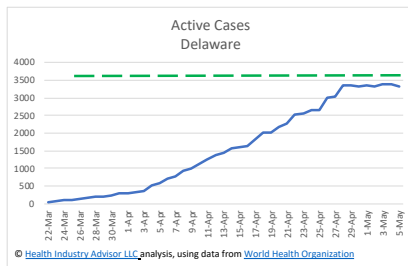
As of May 5

State	Total Cases	Rank	Cases per 1M Population	Rank	Deaths	Rank	Death Rate	Rank	Deaths per 1 Million Population	Rank	5-day Moving Average Case Growth Rate	Rank	Tests per 1M Population Past 7 days	Rank	New Daily Cases Per 1M Population (5-Day M.A.)	Rank
Alabama	8,437	(26)	1,720.7	(29)	315	(26)	3.7%	(33)	64.2	(28)	3.6%	(17)	901	(14)	49.2	(30)
Alaska	371	(51)	507.1	(49)	9	(50)	2.4%	(43)	12.3	(49)	0.9%	(49)	1,094	(10)	3.9	(49)
Arizona	9,305	(23)	1,278.4	(39)	395	(22)	4.2%	(24)	54.3	(35)	4.0%	(13)	409	(46)	46.3	(33)
Arkansas	3,496	(39)	1,158.5	(43)	82	(40)	2.3%	(44)	27.2	(44)	1.3%	(45)	661	(26)	17.5	(44)
California	58,625	(5)	1,483.7	(32)	2,376	(8)	4.1%	(27)	60.1	(32)	3.2%	(20)	731	(22)	45.1	(34)
Colorado	17,364	(17)	3,015.2	(17)	903	(16)	5.2%	(14)	156.8	(14)	2.6%	(29)	463	(44)	75.6	(21)
Connecticut	30,621	(10)	8,588.6	(5)	2,633	(7)	8.6%	(2)	738.5	(3)	2.0%	(40)	637	(28)	172.7	(8)
Delaware	5,371	(35)	5,515.7	(8)	187	(34)	3.5%	(38)	192.0	(13)	2.6%	(30)	513	(38)	116.8	(11)
District Of Columbia	5,322	(36)	7,540.9	(6)	264	(30)	5.0%	(17)	374.1	(7)	4.2%	(11)	1,102	(9)	268.8	(3)
Florida	37,439	(8)	1,743.2	(28)	1,471	(10)	3.9%	(30)	68.5	(24)	2.1%	(37)	657	(27)	30.5	(40)
Georgia	29,892	(12)	2,815.4	(18)	1,295	(13)	4.3%	(21)	122.0	(15)	2.6%	(28)	819	(17)	67.8	(23)
Hawaii	625	(48)	441.4	(50)	17	(48)	2.7%	(42)	12.0	(51)	0.2%	(50)	486	(40)	1.6	(50)
Idaho	2,127	(43)	1,186.9	(41)	65	(41)	3.1%	(39)	36.3	(39)	1.1%	(47)	818	(18)	14.0	(46)
Illinois	65,962	(4)	5,205.4	(9)	2,838	(6)	4.3%	(23)	224.0	(11)	4.5%	(9)	1,174	(7)	201.3	(7)
Indiana	21,033	(14)	3,124.2	(15)	1,326	(12)	6.3%	(5)	197.0	(12)	3.4%	(19)	608	(31)	94.3	(15)
Iowa	10,111	(21)	3,204.7	(14)	207	(33)	2.0%	(45)	65.6	(26)	7.2%	(3)	939	(13)	169.1	(9)
Kansas	5,632	(32)	1,933.2	(25)	161	(36)	2.9%	(40)	55.3	(34)	5.5%	(4)	589	(32)	100.8	(12)
Kentucky	5,822	(31)	1,303.1	(38)	275	(29)	4.7%	(19)	61.6	(30)	4.3%	(10)	360	(49)	46.3	(32)
Louisiana	29,996	(11)	6,452.4	(7)	2,115	(9)	7.1%	(4)	455.0	(5)	1.4%	(44)	1,141	(8)	83.3	(18)
Maine	1,226	(46)	912.1	(46)	61	(42)	5.0%	(16)	45.4	(36)	2.3%	(35)	313	(50)	19.8	(43)
Maryland	27,117	(13)	4,485.4	(10)	1,390	(11)	5.1%	(15)	229.9	(10)	4.5%	(8)	764	(20)	165.5	(10)
Massachusetts	70,271	(3)	10,111.7	(3)	4,212	(3)	6.0%	(17)	606.1	(4)	2.5%	(32)	1,621	(3)	246.0	(4)
Michigan	44,397	(7)	4,445.5	(11)	4,179	(4)	9.4%	(1)	418.4	(6)	1.4%	(43)	830	(16)	73.5	(22)
Minnesota	7,851	(28)	1,392.1	(36)	455	(20)	5.8%	(10)	80.7	(22)	8.9%	(1)	763	(30)	93.0	(16)
Mississippi	8,207	(27)	2,757.6	(19)	342	(25)	4.2%	(25)	114.9	(16)	3.8%	(15)	763	(21)	89.5	(17)
Missouri	8,977	(24)	1,462.7	(34)	400	(21)	4.5%	(20)	65.2	(27)	2.9%	(24)	502	(39)	37.3	(37)
Montana	457	(50)	427.6	(51)	16	(49)	3.5%	(36)	15.0	(48)	0.2%	(51)	278	(51)	0.8	(51)
Nebraska	6,438	(30)	3,328.2	(13)	82	(40)	1.3%	(48)	42.4	(38)	8.5%	(2)	813	(19)	226.3	(5)
Nevada	5,594	(33)	1,816.1	(26)	276	(28)	4.9%	(18)	89.6	(19)	2.3%	(36)	360	(48)	36.6	(38)
New Hampshire	2,636	(42)	1,938.6	(24)	92	(38)	3.5%	(37)	67.7	(25)	4.2%	(12)	707	(24)	65.8	(25)
New Jersey	131,705	(2)	14,828.0	(2)	8,292	(2)	6.3%	(6)	933.6	(2)	2.1%	(39)	857	(15)	287.1	(1)
New Mexico	4,138	(37)	1,973.5	(23)	162	(35)	3.9%	(31)	77.3	(23)	3.9%	(14)	1,561	(4)	79.3	(19)
New York	330,139	(1)	16,970.6	(1)	25,204	(1)	7.6%	(3)	1,295.6	(1)	1.2%	(46)	1,351	(5)	210.7	(6)
North Carolina	12,511	(20)	1,192.9	(40)	470	(19)	3.8%	(32)	44.8	(37)	3.1%	(23)	532	(35)	37.8	(36)
North Dakota	1,266	(44)	1,661.3	(31)	25	(46)	2.0%	(46)	32.8	(42)	3.5%	(18)	2,380	(2)	51.6	(27)
Ohio	20,971	(15)	1,794.1	(27)	1,136	(14)	5.4%	(12)	97.2	(18)	3.1%	(22)	465	(43)	51.4	(28)
Oklahoma	4,127	(38)	1,043.0	(44)	247	(31)	6.0%	(8)	62.4	(29)	2.7%	(27)	712	(23)	25.9	(41)
Oregon	2,839	(40)	673.1	(48)	113	(37)	4.0%	(29)	26.8	(46)	2.5%	(31)	482	(41)	15.4	(45)
Pennsylvania	53,907	(6)	4,210.8	(12)	3,196	(5)	5.9%	(9)	249.6	(9)	2.3%	(33)	466	(42)	99.2	(13)
Rhode Island	9,933	(22)	9,376.4	(4)	355	(23)	3.6%	(34)	335.1	(8)	2.9%	(25)	2,527	(1)	270.6	(2)
South Carolina	6,841	(29)	1,328.7	(37)	296	(27)	4.3%	(22)	57.5	(33)	2.3%	(34)	434	(45)	30.7	(39)
South Dakota	2,721	(41)	3,075.8	(16)	24	(47)	0.9%	(51)	27.1	(45)	2.1%	(38)	389	(47)	65.9	(24)
Tennessee	13,690	(19)	2,003.5	(22)	226	(32)	1.7%	(47)	33.1	(41)	5.0%	(6)	1,190	(6)	76.1	(20)
Texas	34,238	(9)	1,180.8	(42)	960	(15)	2.8%	(41)	33.1	(40)	3.8%	(16)	625	(29)	39.7	(35)
Utah	5,449	(34)	1,699.6	(30)	56	(43)	1.0%	(50)	17.5	(47)	3.1%	(21)	1,082	(11)	49.3	(29)
Vermont	907	(47)	1,453.6	(35)	52	(44)	5.7%	(11)	83.3	(21)	0.9%	(48)	527	(36)	10.3	(48)
Virginia	20,256	(16)	2,373.1	(20)	713	(18)	3.5%	(35)	83.5	(20)	5.0%	(5)	518	(37)	99.0	(14)
Washington	16,360	(18)	2,148.4	(21)	870	(17)	5.3%	(13)	114.2	(17)	2.7%	(26)	687	(25)	47.2	(31)
West Virginia	1,242	(45)	695.0	(47)	50	(45)	4.0%	(28)	28.0	(43)	2.0%	(41)	941	(12)	11.8	(47)
Wisconsin	8,566	(25)	1,471.2	(33)	353	(24)	4.1%	(26)	60.6	(31)	4.6%	(7)	557	(34)	55.9	(26)
Wyoming	604	(49)	1,012.5	(45)	7	(51)	1.2%	(49)	12.1	(50)	1.8%	(42)	568	(33)	20.7	(42)
United States	1,188,122		3,589.5		68,598		5.8%		218.3		2.8%		753		87.1	

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Several States Are Near A Peak in Active Cases

“Strategic Guidance in an Era of Unprecedented Change”

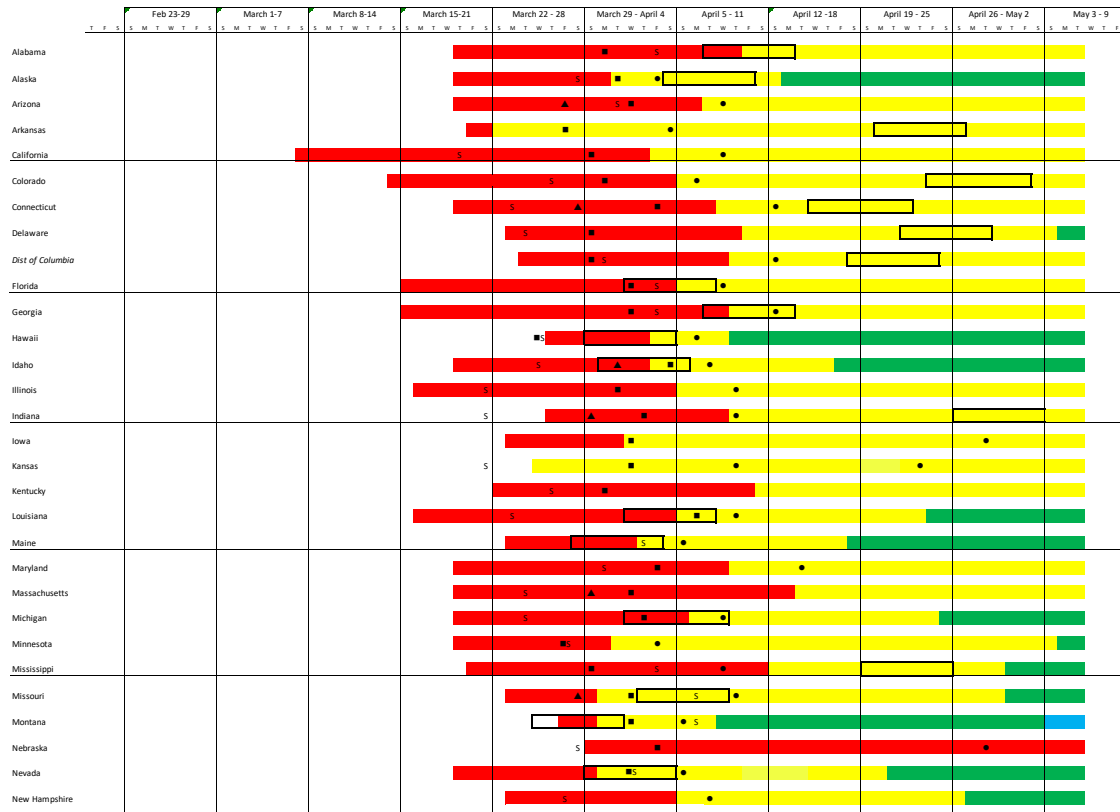


State-by-State Virus Progression – 1 of 2

“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.

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



Legend on following page

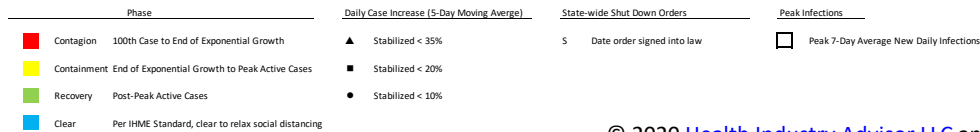
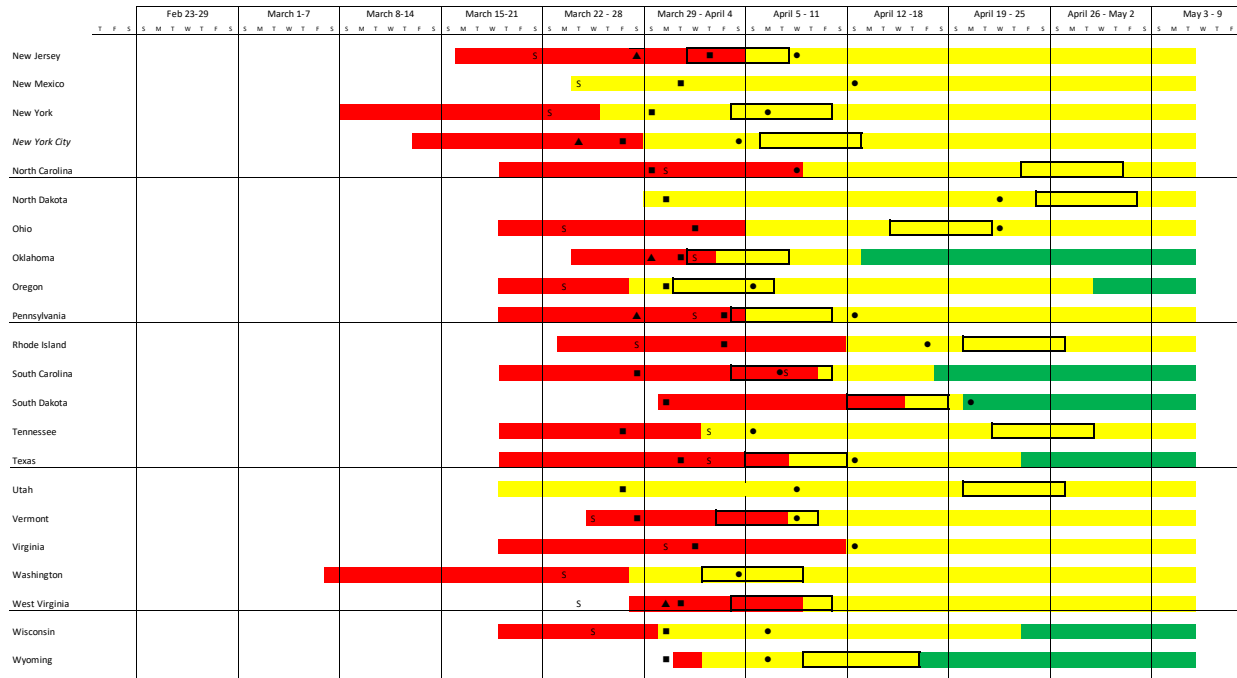
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State-by-State Virus Progression – 2 of 2

“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.

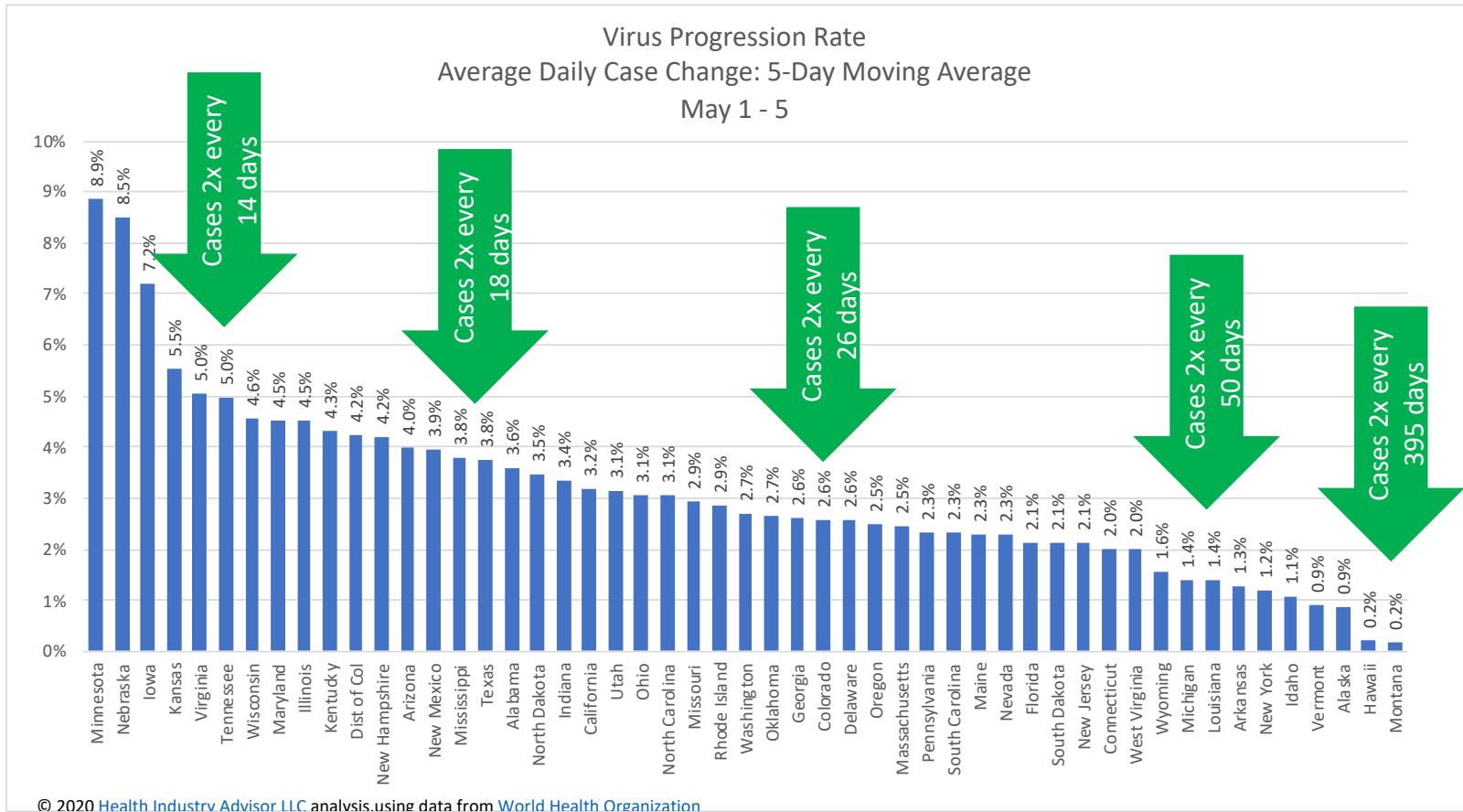
A state is not shaded green until active cases appear to have peaked.



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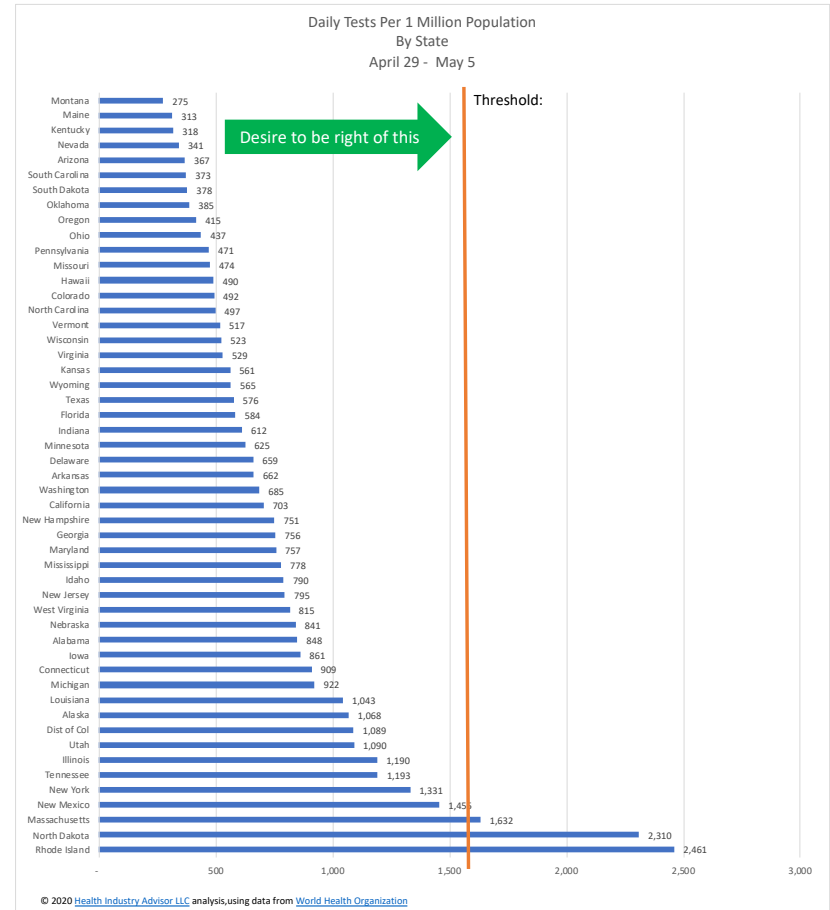
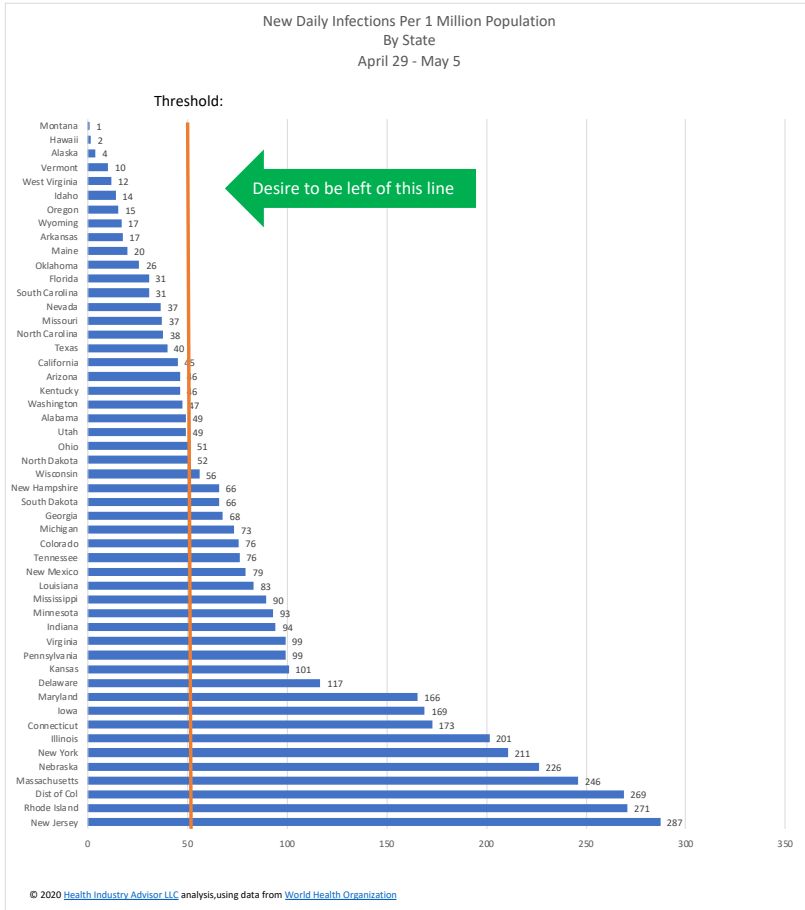
State-by-State Average Daily Case Growth

“Strategic Guidance in an Era of Unprecedented Change”



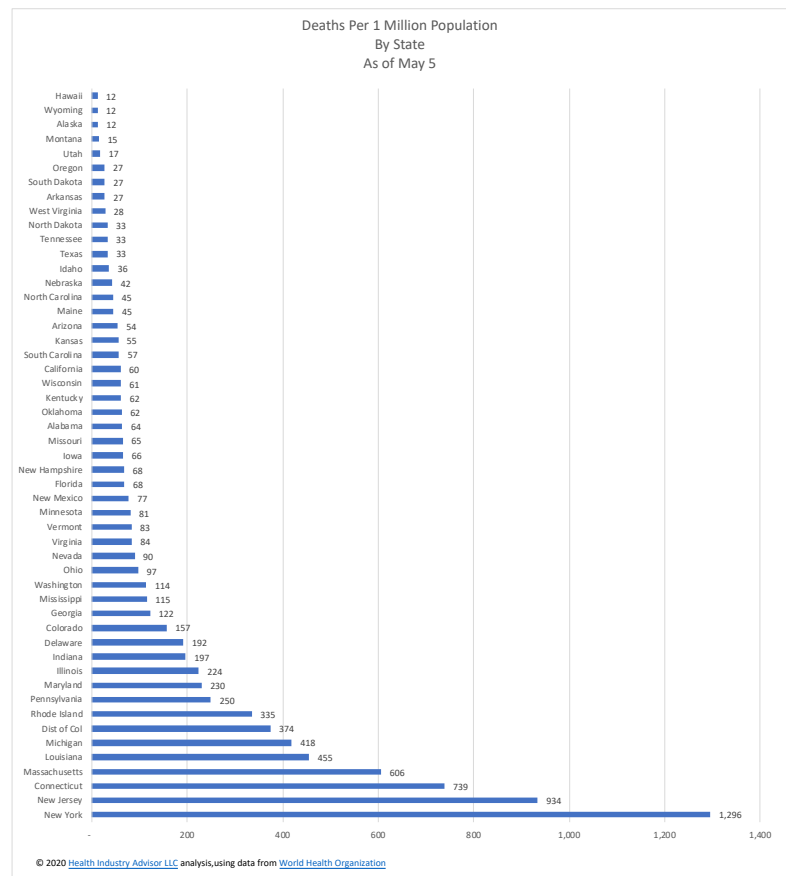
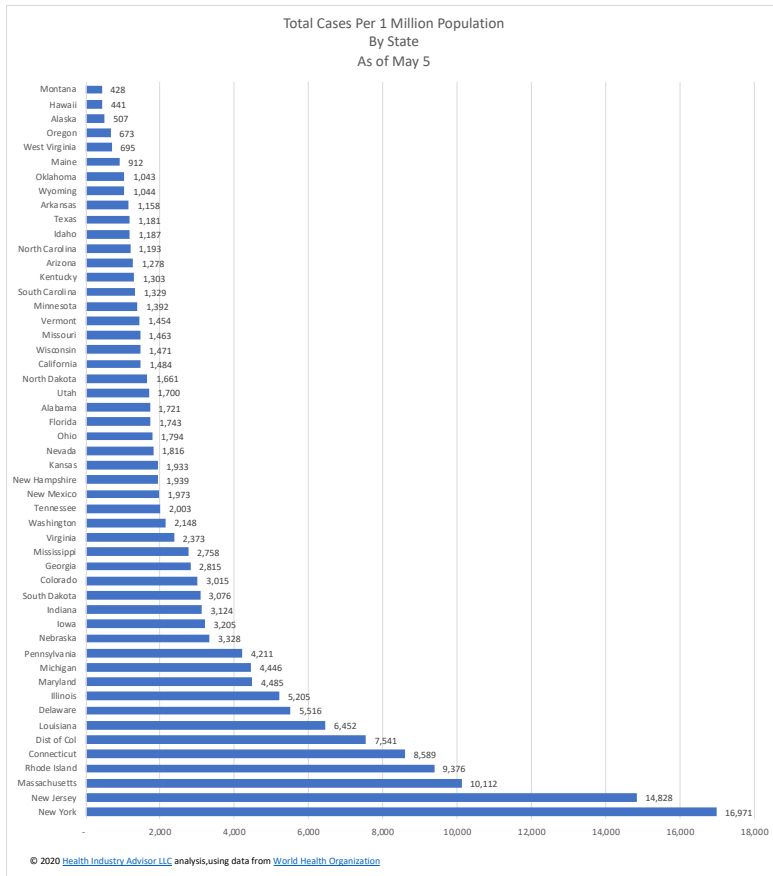
State-by-State New Daily Infections & Tests Per Capita

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State-by-State Cases & Deaths Per Capita

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"Strategic Guidance in an Era of Unprecedented Change"

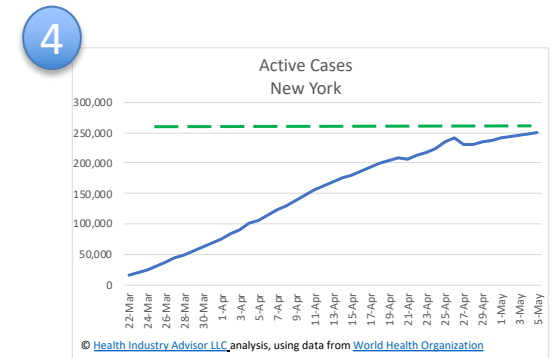
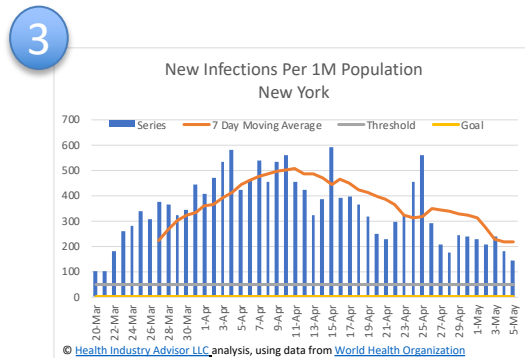
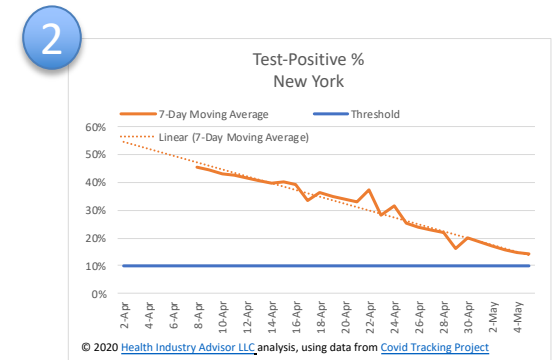
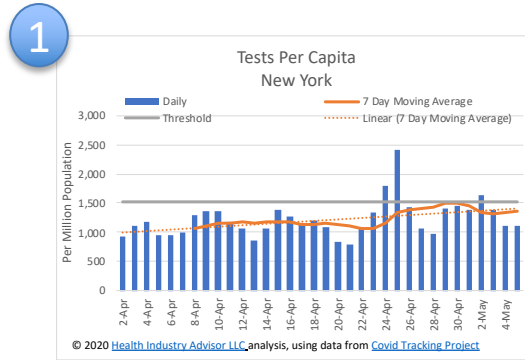
Graphics relevant to judging how far a state has progressed against the virus are provided on the following pages for:

- Kentucky
- Louisiana
- Maine
- Maryland
- Massachusetts
- Michigan
- Minnesota
- Mississippi
- Missouri
- Montana
- Nebraska
- Nevada
- New Hampshire
- New Jersey
- New Mexico
- New York
- North Carolina

“Strategic Guidance in an Era of Unprecedented Change”

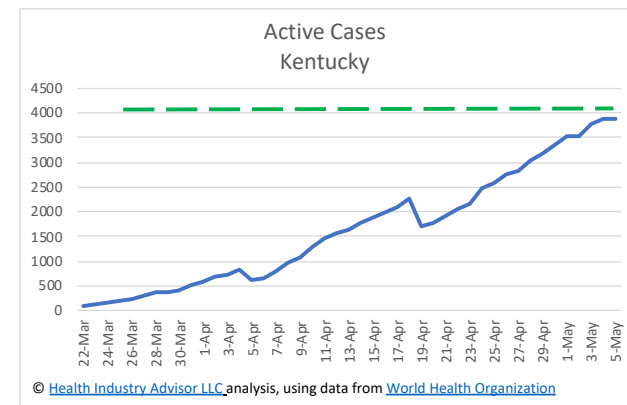
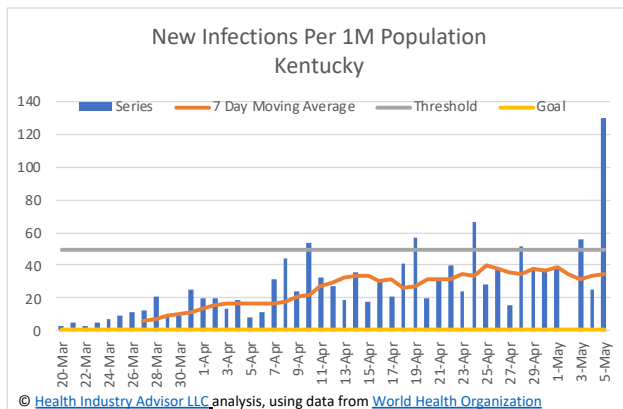
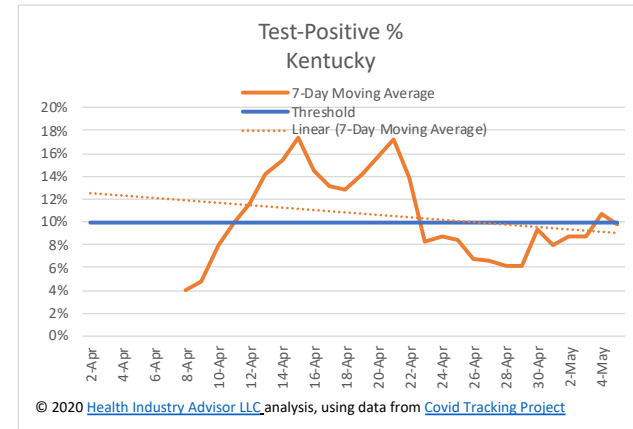
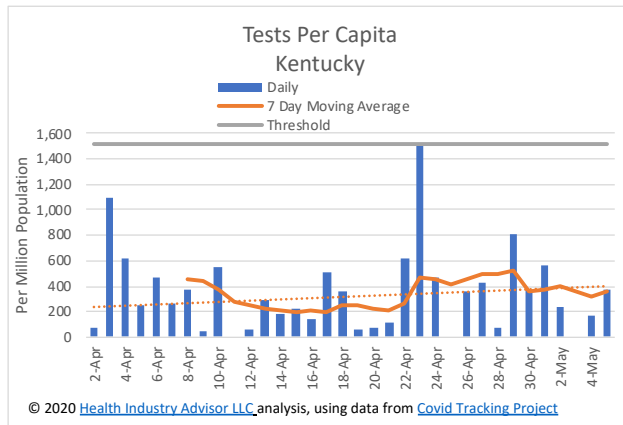
How to “read” these charts:

- 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



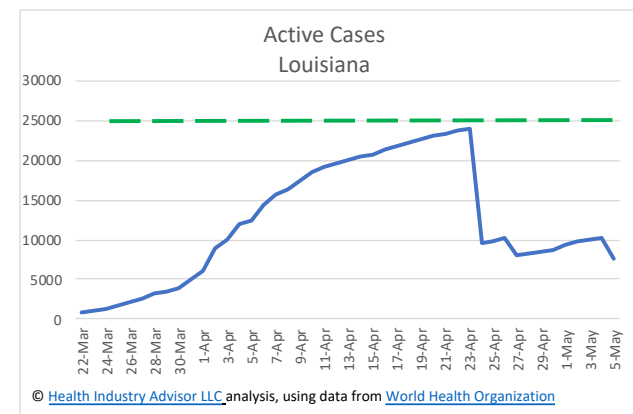
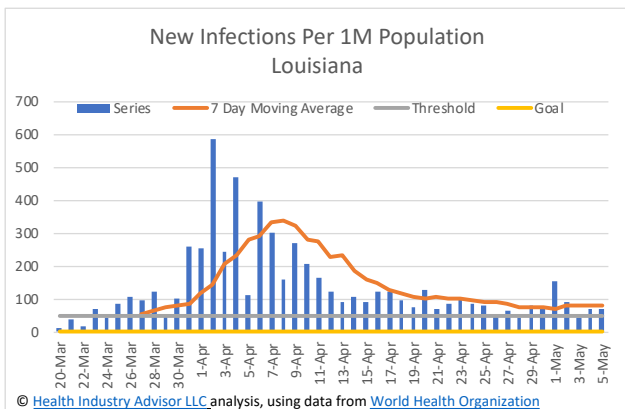
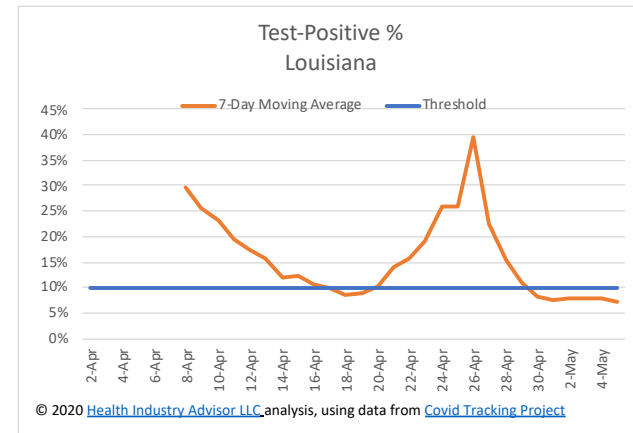
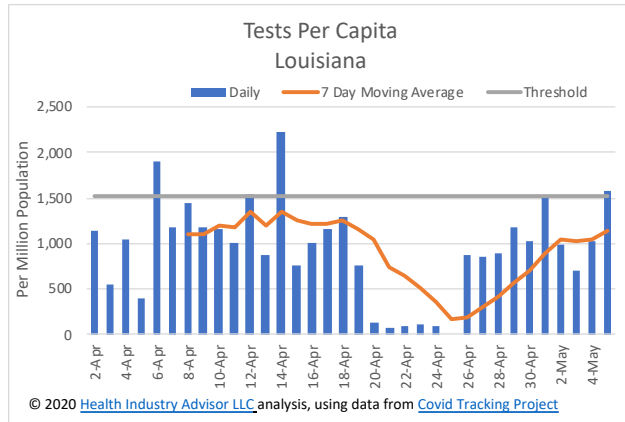
State-by-State Test, New Daily Infection and Active Case Trends

“Strategic Guidance in an Era of Unprecedented Change”



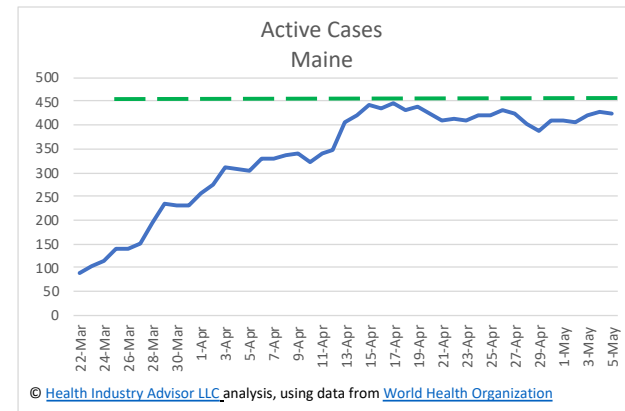
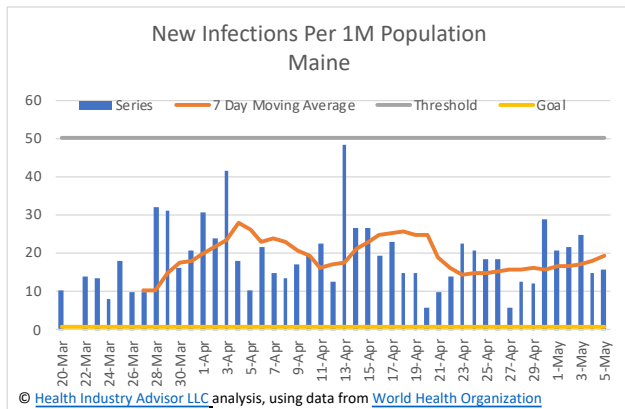
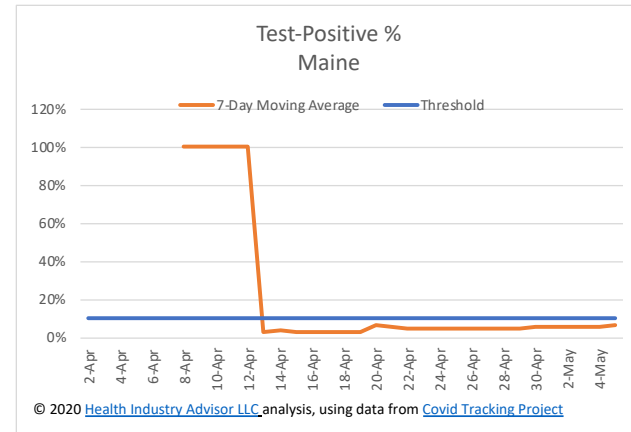
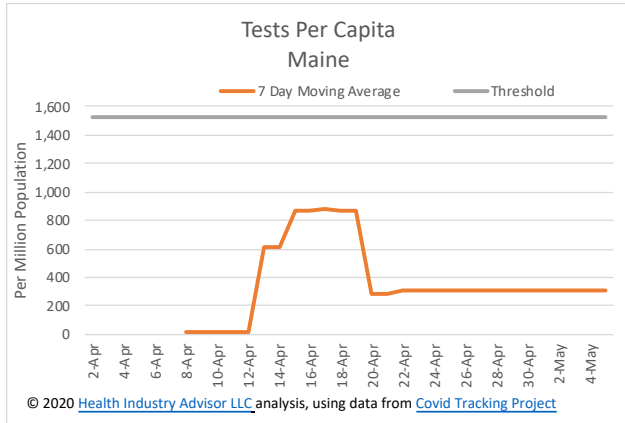
State-by-State Test, New Daily Infection and Active Case Trends

“Strategic Guidance in an Era of Unprecedented Change”



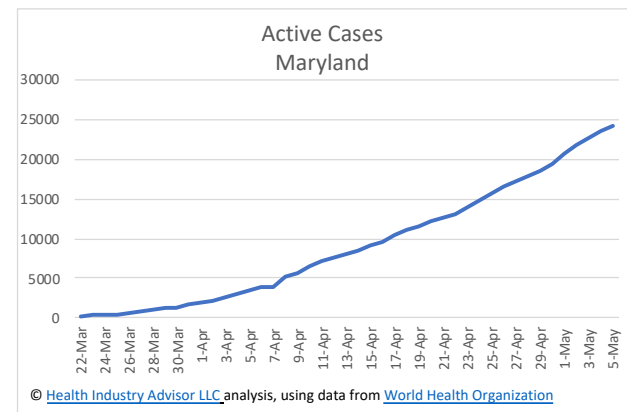
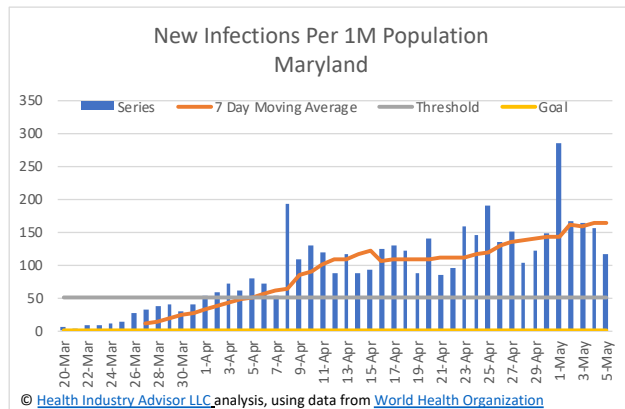
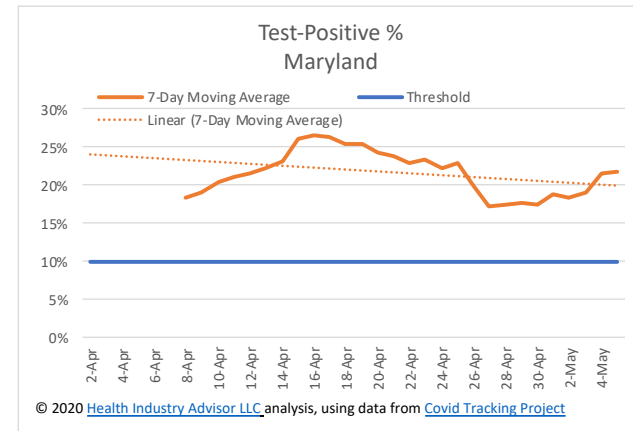
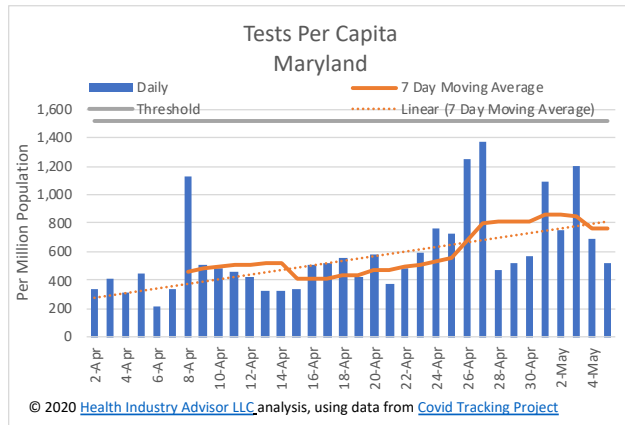
State-by-State Test, New Daily Infection and Active Case Trends

“Strategic Guidance in an Era of Unprecedented Change”



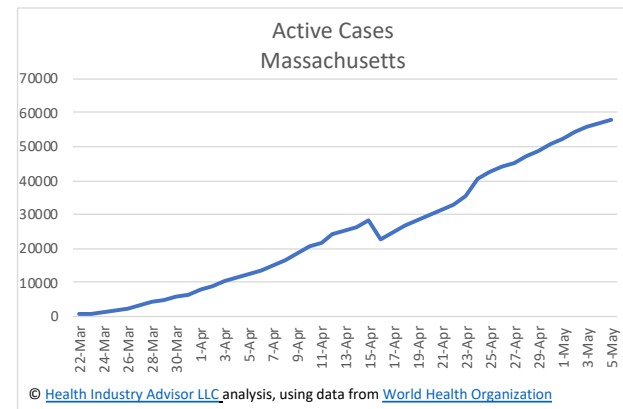
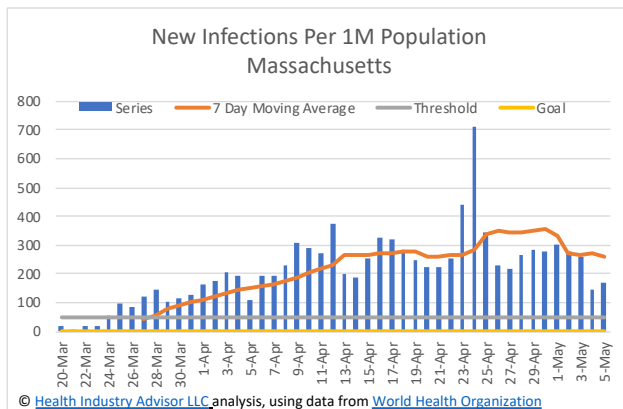
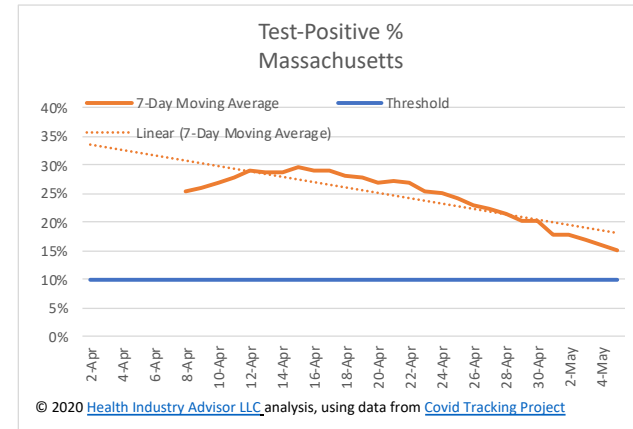
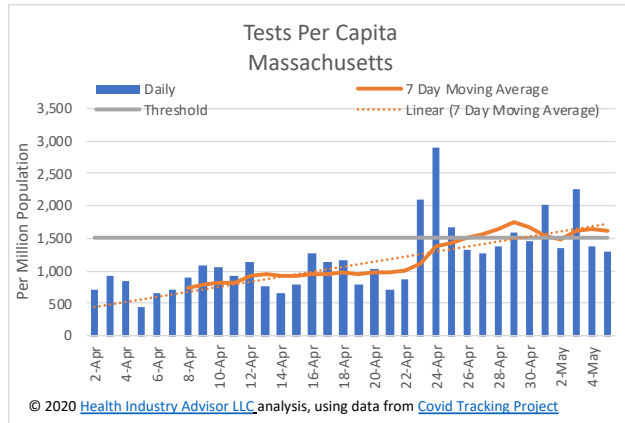
State-by-State Test, New Daily Infection and Active Case Trends

“Strategic Guidance in an Era of Unprecedented Change”



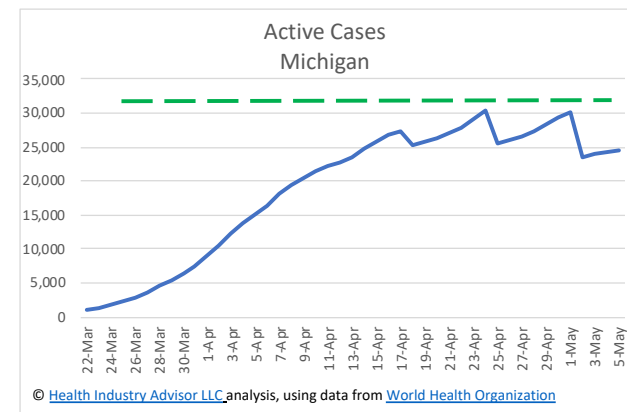
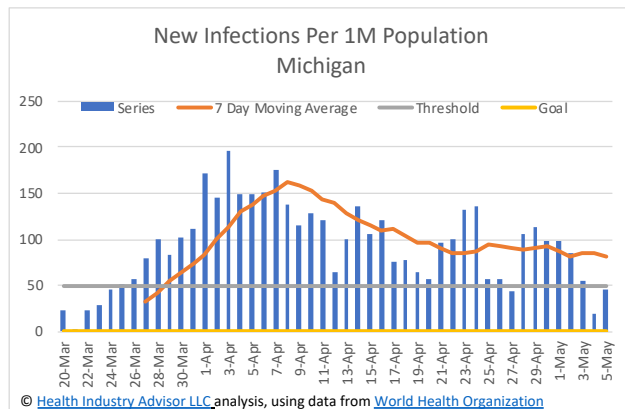
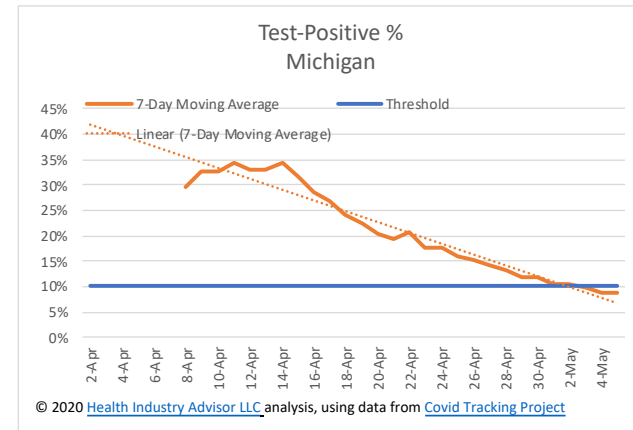
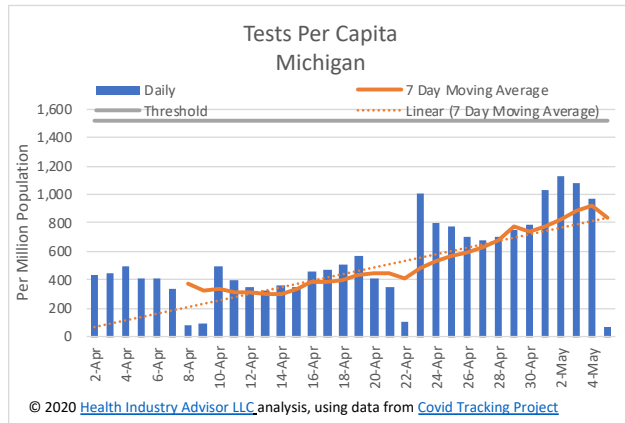
State-by-State Test, New Daily Infection and Active Case Trends

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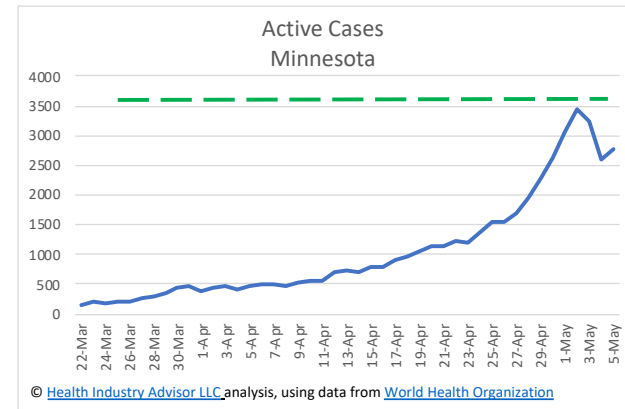
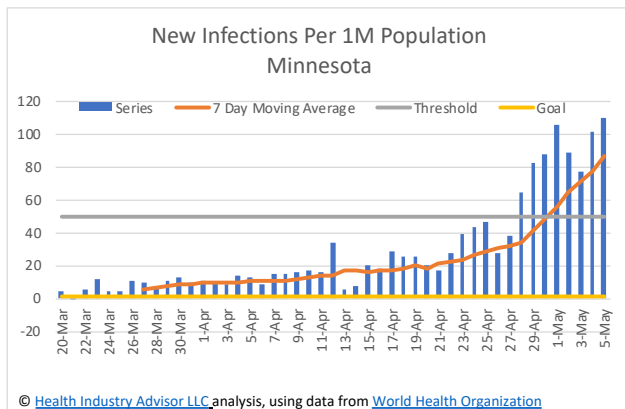
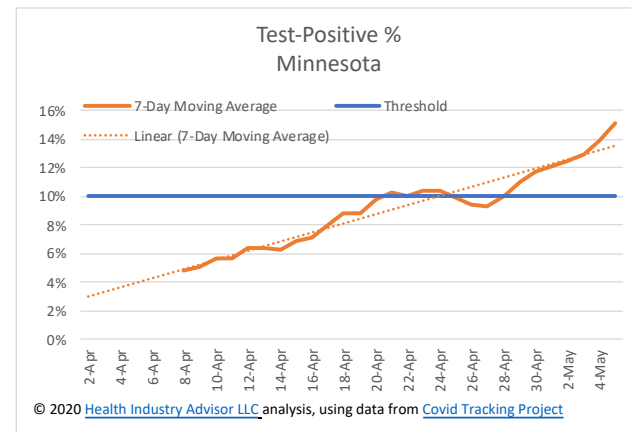
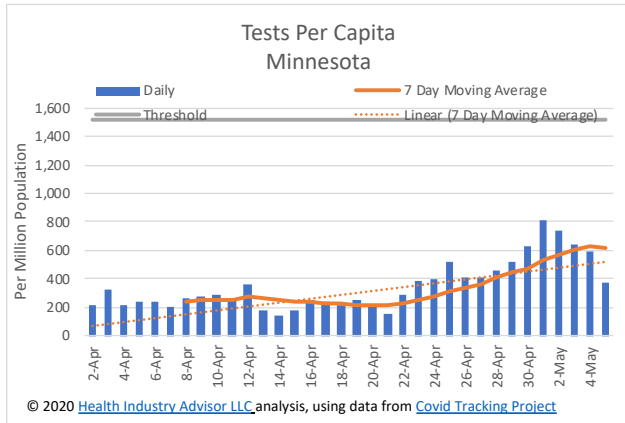
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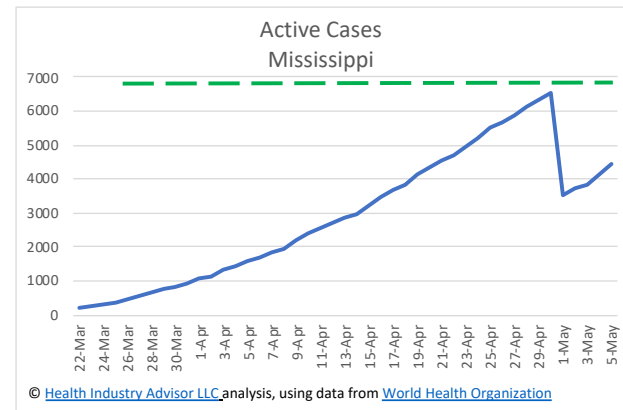
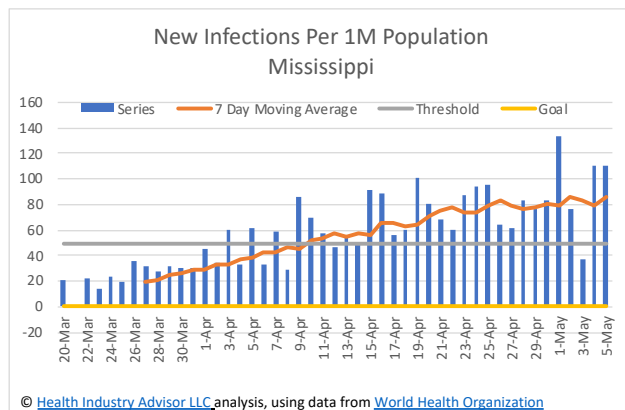
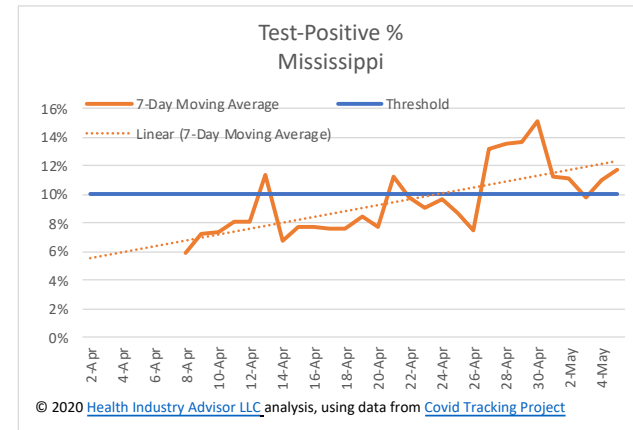
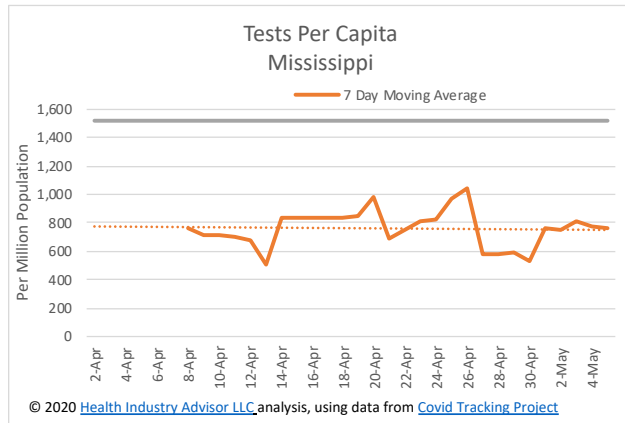
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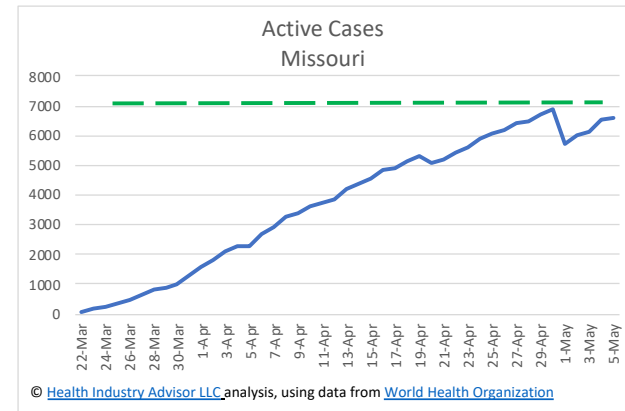
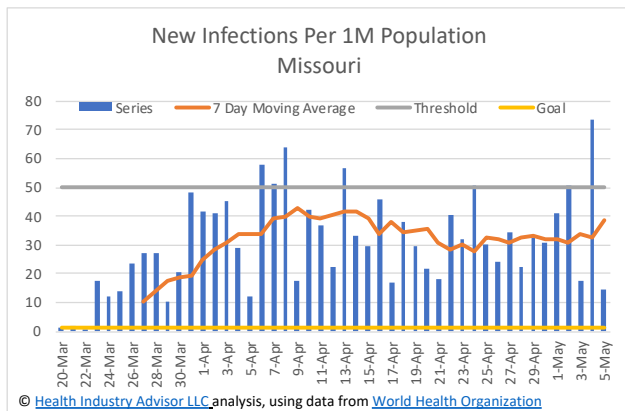
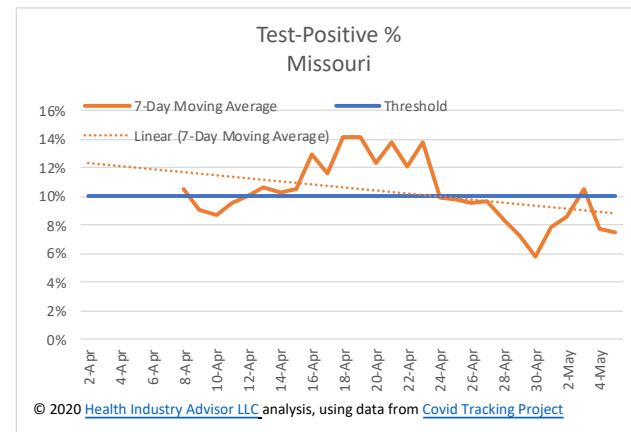
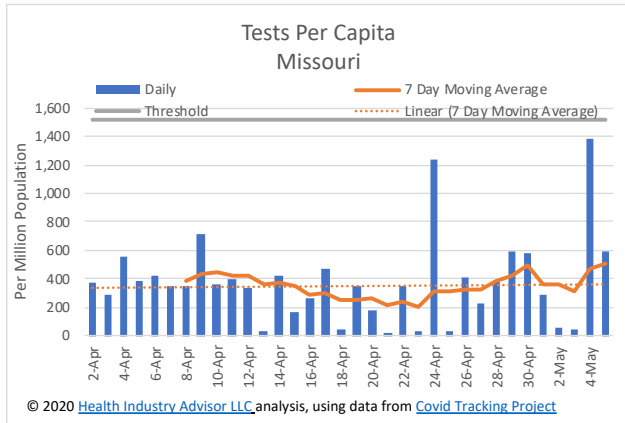
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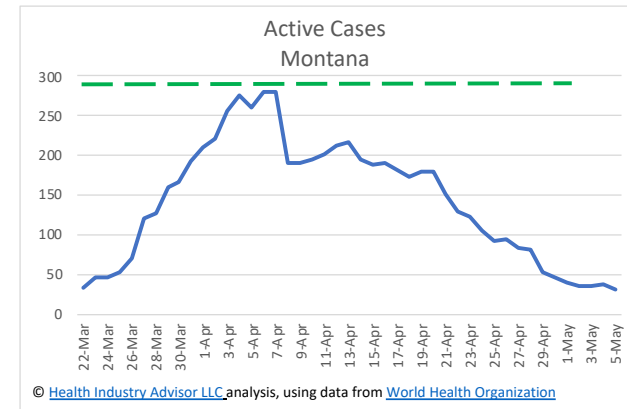
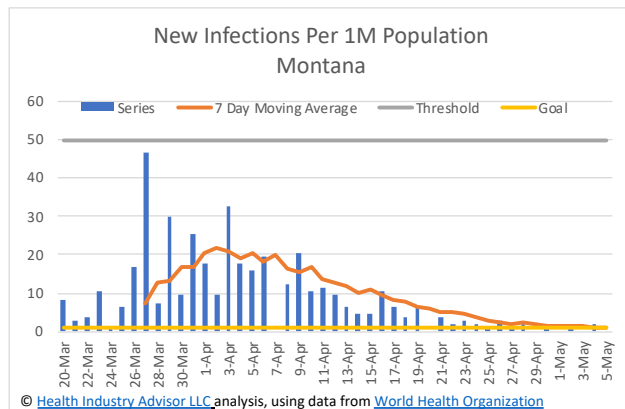
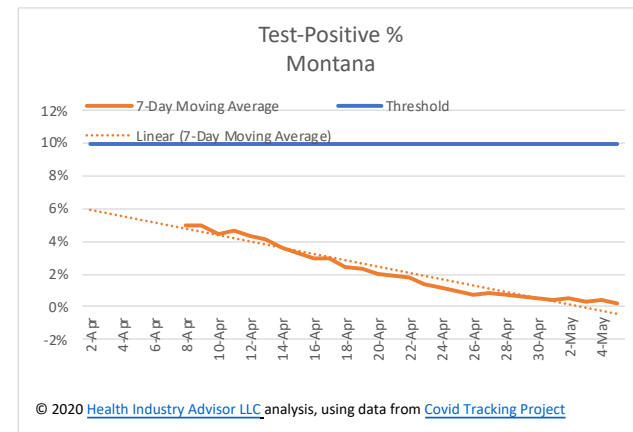
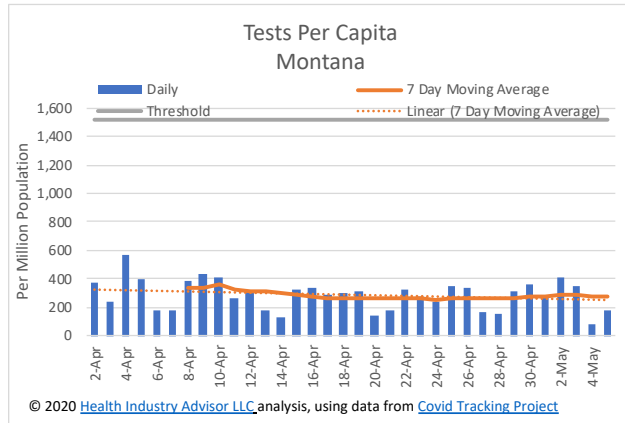
State-by-State Test, New Daily Infection and Active Case Trends

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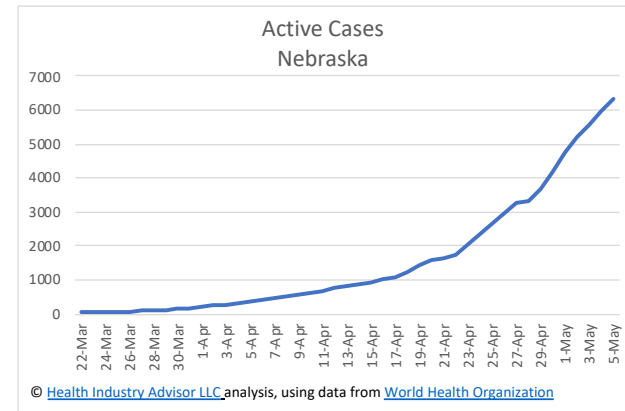
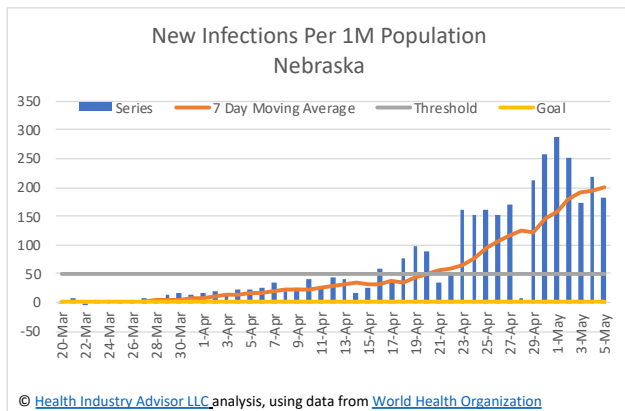
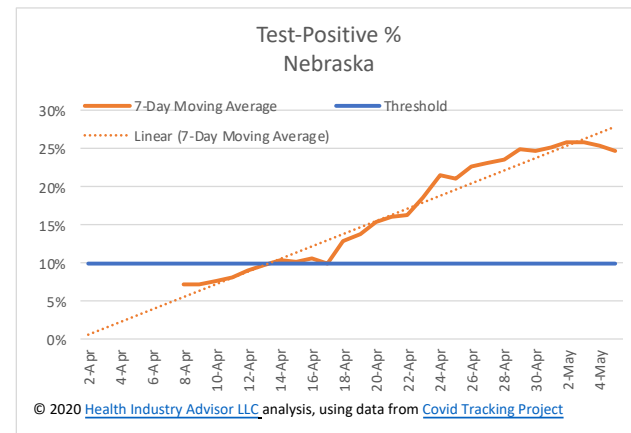
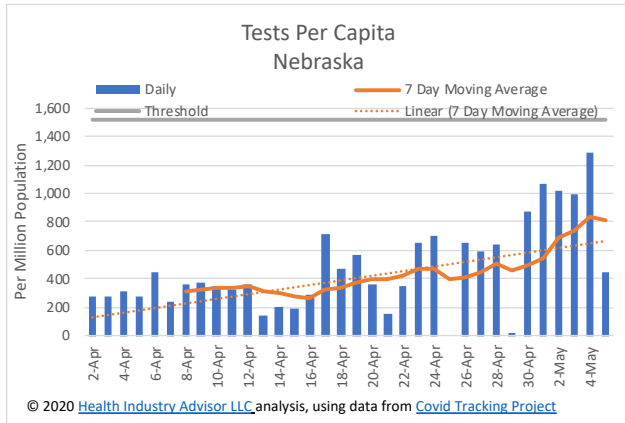
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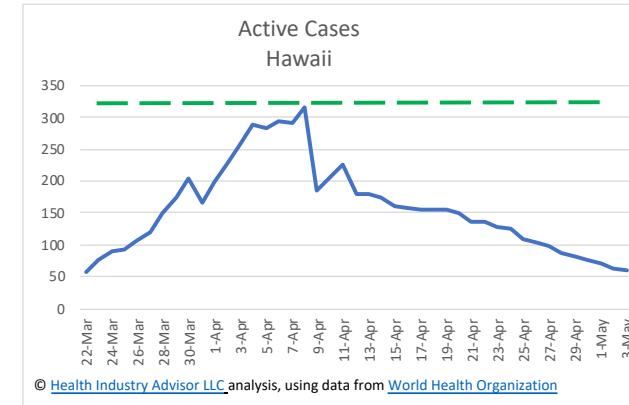
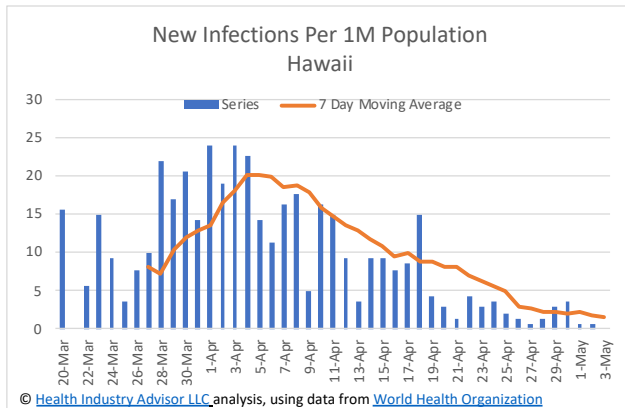
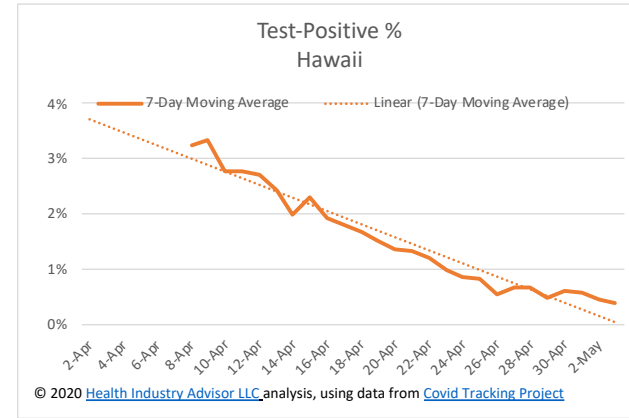
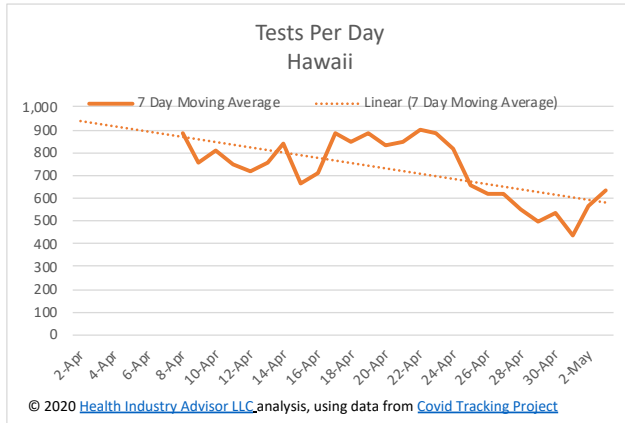
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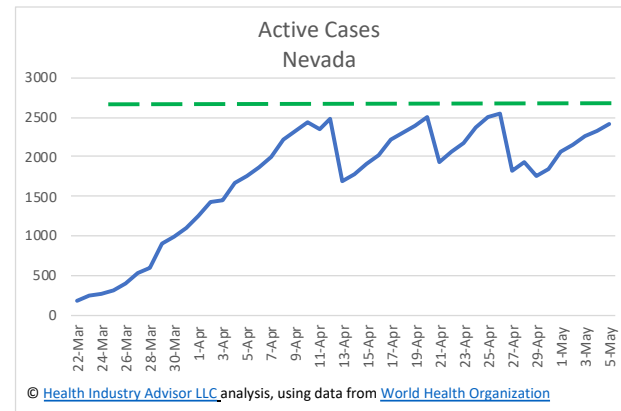
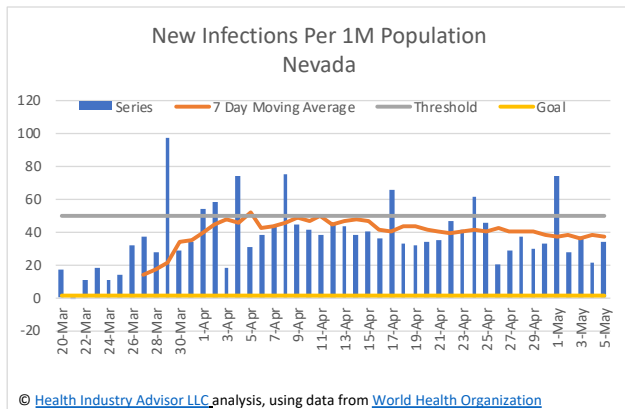
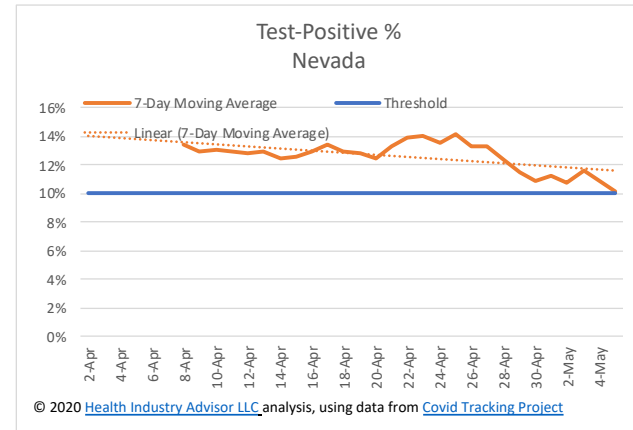
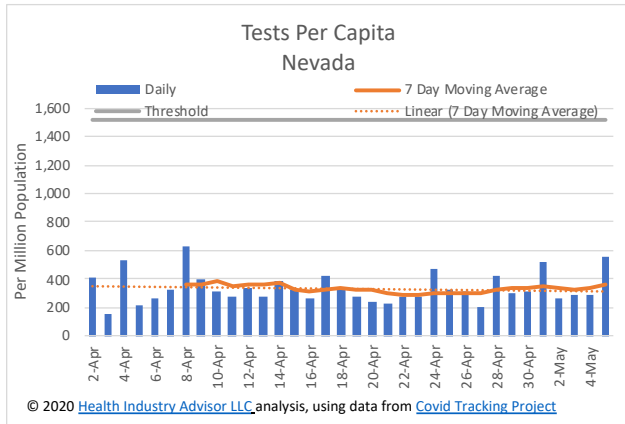
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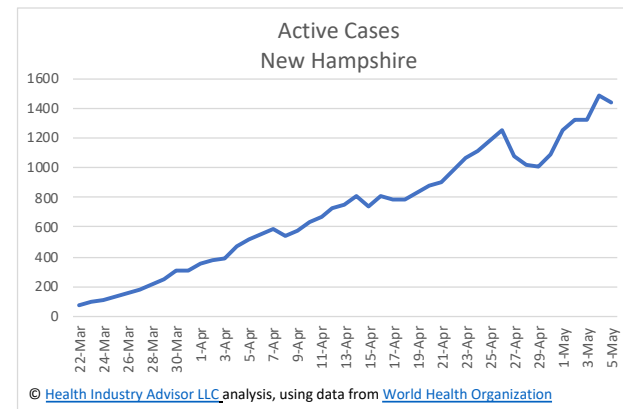
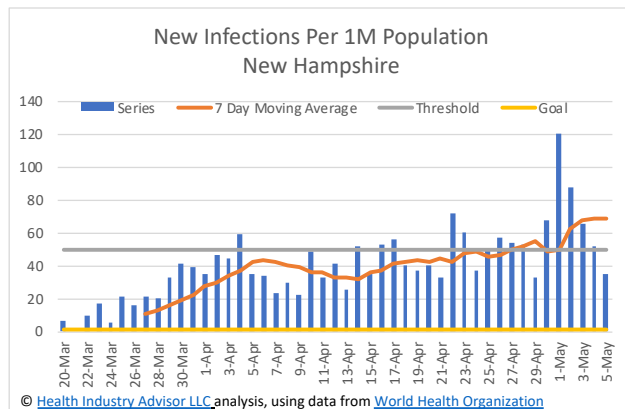
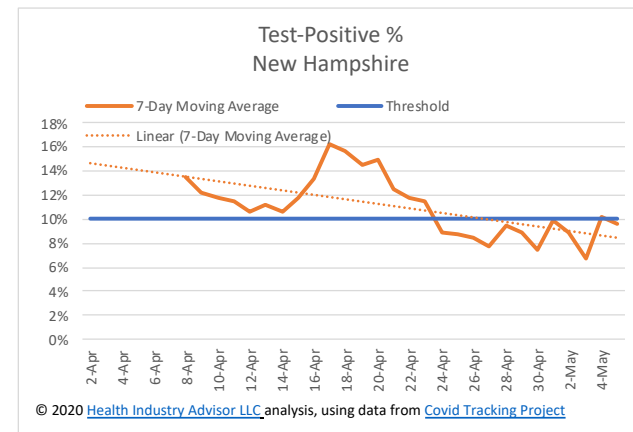
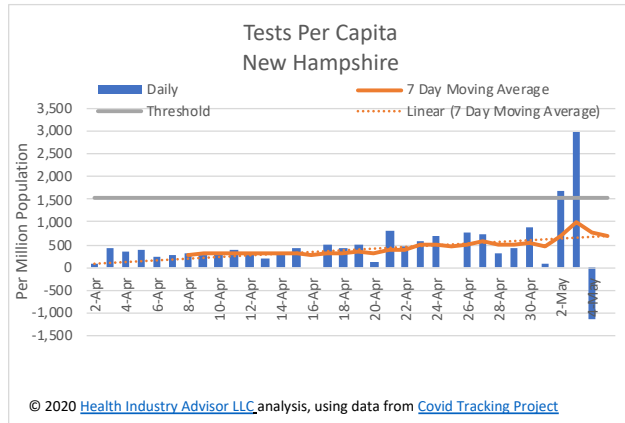
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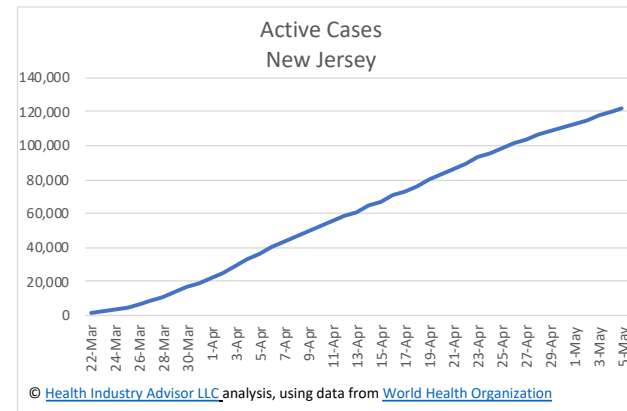
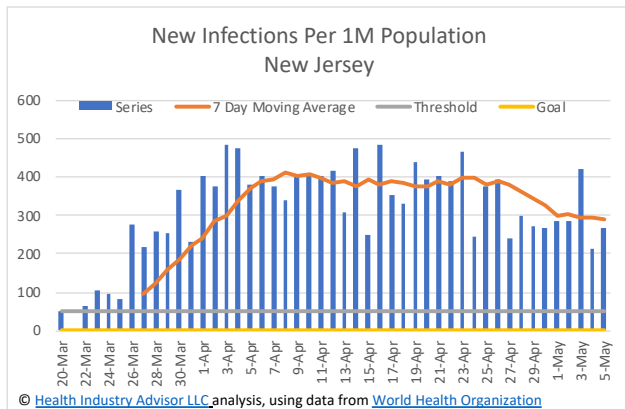
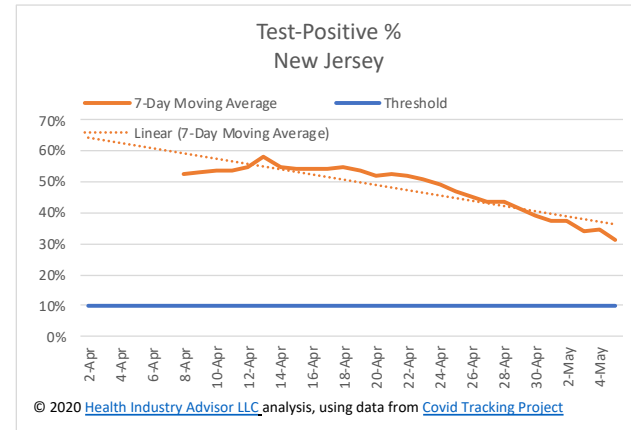
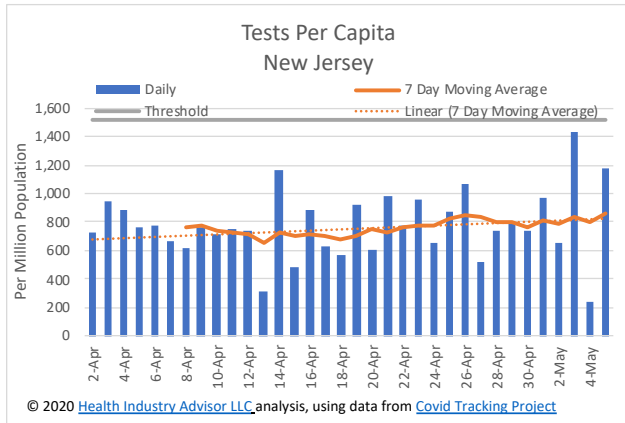
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