

COVID-19 Dashboard

Issue # 64
Monday, June 1, 2020

Day's Highlights

"Strategic Guidance in an Era of Unprecedented Change"

Measure	Desired Change	Yesterday in the U.S.
Number of Tests	Increase	>464,000 tests per day on the weekend
Test-Positivity Rate	Decline	5.1% test-positive on weekend; 5.4% for past 7 days
Number of Cases	Plateau	New Cases down 5.1% week-over-week
Deaths % of Total Cases	Decline	5.8%
Number of Deaths / 1M Population	Plateau	320.8
Recoveries : Death	Increase	5.65

- Test volume in the U.S. increased again, with Saturday and Sunday representing the highest two days testing since the virus began to spread. With an average of ~464,000 tests each day, the test-positive rate was only 5.1%
- New York City recorded its 200,000th case, however, it only saw 654 new cases yesterday
- India surpassed both France and Germany in total cases and is now 7th in the world; Peru surpassed Turkey and is now 10th; Mexico surpassed China and is now 15th. Other Latin American countries: Brazil is 3rd; Peru, 10th; Chile, 13th; Ecuador, 24th; Columbia, 31st; and Argentina, 43rd
- Illinois reported >45,000 recoveries yesterday alone; with these, the U.S. was able to post an overall decline in active cases day-over-day. Total recoveries in the U.S are now ~600,000; worldwide recoveries are 2.9 million
- Maryland is experiencing the highest rate of new infections per capita (153 per million per day, for the past week), Nebraska is 2nd (145), Virginia is 3rd (140), Rhode Island is 4th (112) and Minnesota and Mississippi are next (108). Virginia and Mississippi are the most concerning of these, as their rates are still increasing. Alabama's rate also is high (100) and is still increasing
- Twelve states have daily infection rates of 30 or less: Alaska, Hawaii, Idaho, Maine, Missouri, Montana, North Dakota, Oklahoma, Oregon, Vermont, West Virginia and Wyoming
- The death rate in the U.S. remains stable, at 5.8%. While having the most cases and deaths in the world, the U.S ranks 11th in cases per capita and 12th in deaths per capita

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
- Since that time, 18 countries have moved ahead of South Korea in total cases
- We continue to track the 30 countries, which still account for 87.5% of the 6.3 million total cases worldwide; additionally, we now have visibility to all 215 countries 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 Comparative Statistics

"Strategic Guidance in an Era of Unprecedented Change"

As of May 31

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	Rank7	New Daily Infections Per 1M Population (5-Day M.A.)	Rank8
USA	1,837,170	(1)	5,550	(3)	106,195	(1)	5.8%	(13)	320.8	(9)	1.3%	(12)	53,417	(10)	65.1	(5)
Austria	16,731	(29)	1,858	(23)	668	(26)	4.0%	(20)	74.2	(19)	0.2%	(27)	49,825	(11)	3.6	(26)
Belgium	58,381	(19)	5,037	(6)	9,467	(8)	16.2%	(1)	816.8	(1)	0.3%	(22)	74,791	(3)	15.9	(15)
Brazil	514,849	(2)	2,422	(17)	29,314	(4)	5.7%	(14)	137.9	(14)	5.6%	(1)	4,378	(25)	101.6	(3)
Canada	90,947	(14)	2,410	(18)	7,295	(11)	8.0%	(10)	193.3	(11)	1.0%	(13)	44,169	(14)	23.6	(13)
Chile	99,688	(13)	5,215	(4)	1,054	(24)	1.1%	(28)	55.1	(20)	5.0%	(2)	30,490	(16)	228.6	(1)
China	83,001	(17)	58	(30)	4,634	(15)	5.6%	(15)	3.2	(30)	0.0%	(30)	0	N/A	0.0	(30)
Ecuador	39,098	(21)	2,216	(19)	3,358	(19)	8.6%	(9)	190.3	(12)	0.9%	(15)	6,664	(24)	19.0	(14)
France	188,882	(8)	2,894	(13)	28,802	(5)	15.2%	(2)	441.3	(5)	0.7%	(17)	21,217	(20)	13.8	(16)
Germany	183,494	(9)	2,190	(20)	8,605	(9)	4.7%	(18)	102.7	(16)	0.2%	(24)	47,193	(12)	5.4	(24)
India	190,609	(7)	138	(28)	5,408	(13)	2.8%	(21)	3.9	(29)	4.8%	(4)	2,710	(26)	5.4	(25)
Iran	151,466	(12)	1,803	(24)	7,797	(10)	5.1%	(17)	92.8	(17)	1.7%	(10)	11,155	(23)	26.8	(10)
Ireland	24,990	(26)	5,061	(5)	1,652	(21)	6.6%	(11)	334.5	(8)	0.2%	(28)	66,043	(5)	10.2	(19)
Israel	17,071	(27)	1,972	(21)	285	(28)	1.7%	(26)	32.9	(22)	0.4%	(21)	61,804	(8)	5.8	(23)
Italy	232,997	(6)	3,854	(9)	33,415	(3)	14.3%	(3)	552.7	(4)	0.2%	(26)	64,144	(6)	7.4	(22)
Japan	16,851	(28)	133	(29)	891	(25)	5.3%	(16)	7.0	(25)	0.3%	(23)	2,296	(28)	0.3	(29)
Mexico	87,512	(15)	679	(25)	9,779	(7)	11.2%	(7)	75.8	(18)	4.2%	(5)	2,104	(29)	24.0	(12)
Netherlands	46,442	(20)	2,710	(14)	5,956	(12)	12.8%	(5)	347.6	(7)	0.4%	(20)	20,380	(21)	10.1	(20)
Pakistan	69,496	(18)	315	(26)	1,483	(22)	2.1%	(25)	6.7	(26)	3.8%	(6)	2,481	(27)	9.6	(21)
Peru	164,476	(10)	4,989	(7)	4,506	(17)	2.7%	(23)	136.7	(15)	4.9%	(3)	32,153	(15)	192.9	(2)
Portugal	32,500	(24)	3,187	(12)	1,410	(23)	4.3%	(19)	138.3	(13)	0.9%	(14)	78,031	(2)	26.3	(11)
Russia	405,843	(3)	2,707	(15)	4,693	(14)	1.2%	(27)	31.3	(23)	2.3%	(7)	72,933	(4)	58.5	(6)
Saudi Arabia	85,261	(16)	2,449	(16)	503	(27)	0.6%	(29)	14.4	(24)	2.1%	(8)	17,767	(22)	52.1	(8)
Singapore	34,884	(23)	5,963	(2)	23	(30)	0.1%	(30)	3.9	(28)	1.5%	(11)	23,666	(18)	79.8	(4)
South Korea	11,468	(30)	224	(27)	270	(29)	2.4%	(24)	5.3	(27)	0.4%	(19)	57,246	(9)	0.8	(28)
Spain	286,509	(4)	6,128	(1)	27,127	(6)	9.5%	(8)	580.2	(2)	0.2%	(25)	86,921	(1)	11.2	(18)
Sweden	37,542	(22)	3,717	(10)	4,395	(18)	11.7%	(6)	435.2	(6)	1.7%	(9)	23,657	(19)	57.8	(7)
Switzerland	30,862	(25)	3,604	(11)	1,920	(20)	6.2%	(12)	224.2	(10)	0.1%	(29)	45,979	(13)	2.1	(27)
Turkey	163,942	(11)	1,944	(22)	4,540	(16)	2.8%	(22)	53.8	(21)	0.6%	(18)	24,201	(17)	12.1	(17)
UK	274,762	(5)	4,047	(8)	38,489	(2)	14.0%	(4)	567.0	(3)	0.7%	(16)	63,158	(7)	32.0	(9)

Note: China does not report test volumes

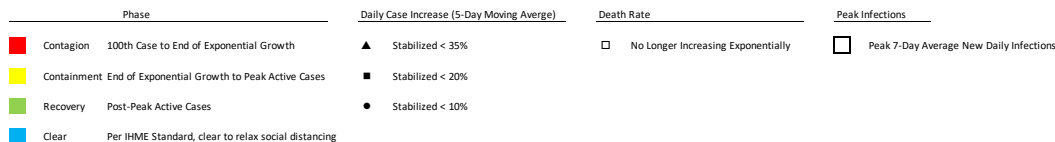
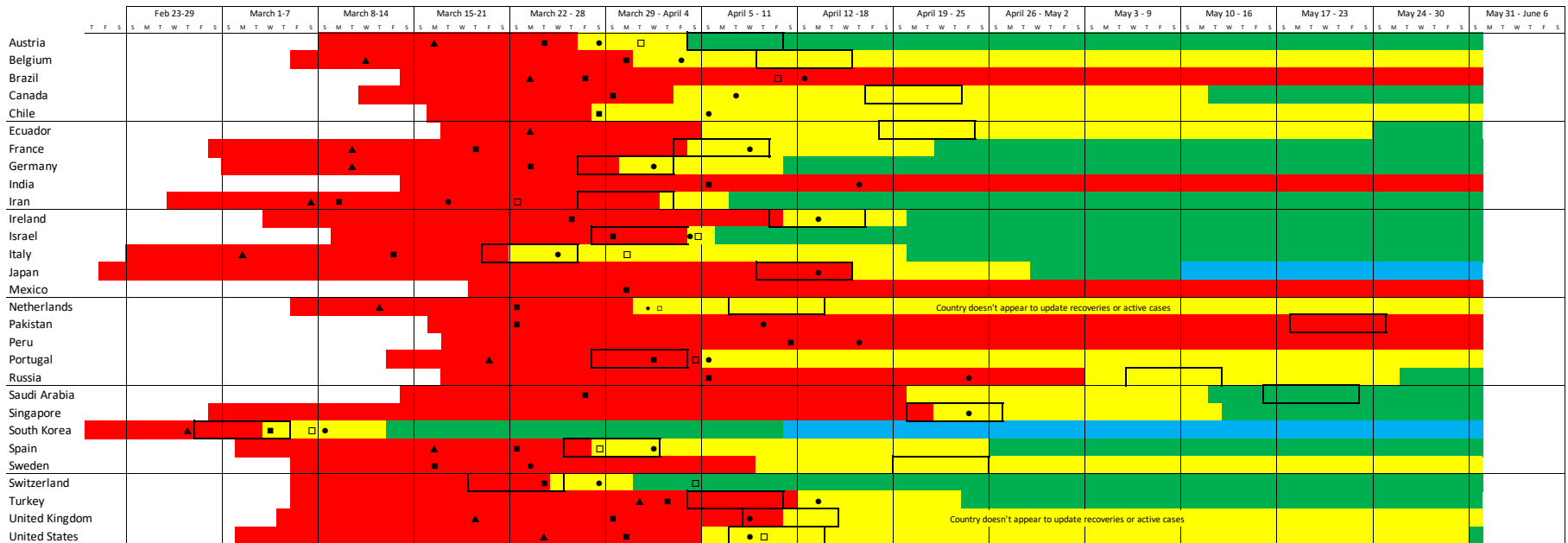
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VIRUS PROGRESSION BY COUNTRY

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"

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. These countries have moved up:

- Afghanistan
- Argentina
- Bangladesh
- Belarus
- Columbia
- Denmark
- Dominican Republic
- Indonesia
- Kuwait
- Poland
- Qatar
- Panama
- Philippines
- Romania
- South Africa
- UAE
- Ukraine

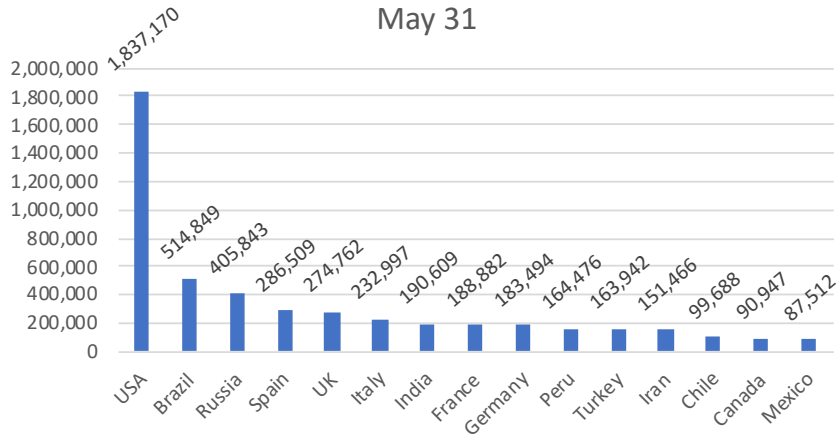
The original 30 still account for 87.5% of all cases worldwide.

Total Cases								
Rank	Country	31-May	Rank	Country	6-May	Rank	Country	27-Apr
1	USA	1,837,170	1	USA	1,263,092	1	USA	1,010,356
2	Brazil	514,849	2	Spain	253,682	2	Spain	229,422
3	Russia	405,843	3	Italy	214,457	3	Italy	199,414
4	Spain	286,509	4	UK	201,101	4	France	165,842
5	UK	274,762	5	France	174,191	5	Germany	158,758
6	Italy	232,997	6	Germany	168,162	6	UK	157,149
7	India	190,609	7	Russia	165,929	7	Turkey	112,261
8	France	188,882	8	Turkey	131,744	8	Iran	91,472
9	Germany	183,494	9	Brazil	126,611	9	Russia	87,147
10	Peru	164,476	10	Iran	101,650	10	China	82,830
11	Turkey	163,942	11	China	82,883	11	Brazil	66,501
12	Iran	151,466	12	Canada	63,496	12	Canada	48,500
13	Chile	99,688	13	Peru	54,817	13	Belgium	46,687
14	Canada	90,947	14	India	52,987	14	Netherlands	38,245
15	Mexico	87,512	15	Belgium	50,781	15	India	29,451
16	Saudi Arabia	85,261	16	Netherlands	41,319	16	Switzerland	29,164
17	China	83,001	17	Saudi Arabia	31,938	17	Peru	28,669
18	Pakistan	69,496	18	Switzerland	30,060	18	Portugal	24,070
19	Belgium	58,381	19	Ecuador	29,420	19	Ecuador	23,240
22	Netherlands	46,442	20	Portugal	26,182	20	Ireland	19,648
24	Ecuador	39,098	21	Mexico	26,025	21	Sweden	18,926
25	Sweden	37,542	22	Sweden	23,918	22	Saudi Arabia	18,811
26	Singapore	34,884	23	Pakistan	23,214	23	Israel	15,555
29	Portugal	32,500	24	Chile	23,048	24	Austria	15,274
30	Switzerland	30,862	25	Ireland	22,248	25	Mexico	14,677
34	Ireland	24,990	26	Singapore	20,198	26	Singapore	14,423
41	Israel	17,071	29	Israel	16,310	27	Pakistan	13,915
42	Japan	16,851	31	Austria	15,684	28	Chile	13,813
44	Austria	16,731	32	Japan	15,253	29	Japan	13,614
48	S. Korea	11,468	38	S. Korea	10,806	35	South Korea	10,738
	Others	781,525		Others	356,176		Others	263,943
	World	6,259,249			3,817,382		World	3,062,515
30 countries' share		87.5%			90.7%			91.4%

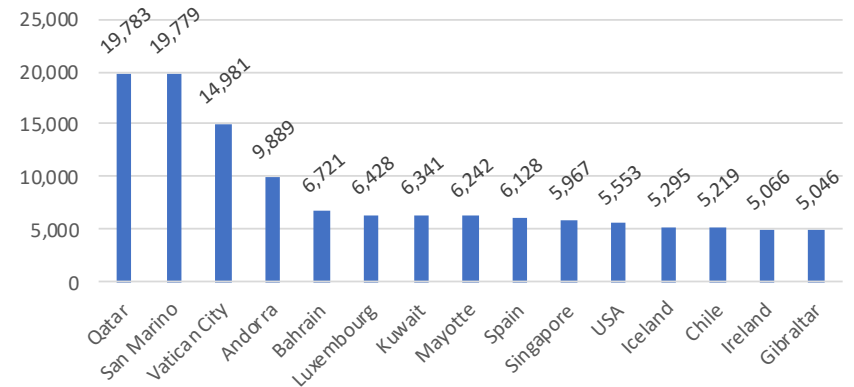
Country-by-Country Cases & Cases Per Capita

"Strategic Guidance in an Era of Unprecedented Change"

Countries Ranked By Total Cases
May 31

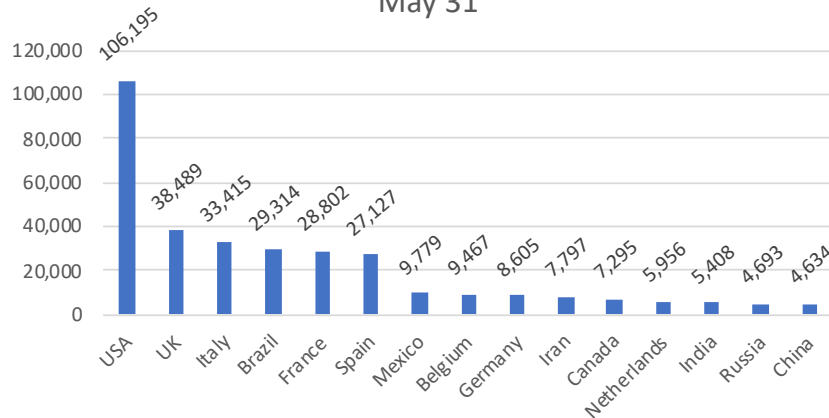


Countries Ranked By Total Cases / 1 Million
May 31

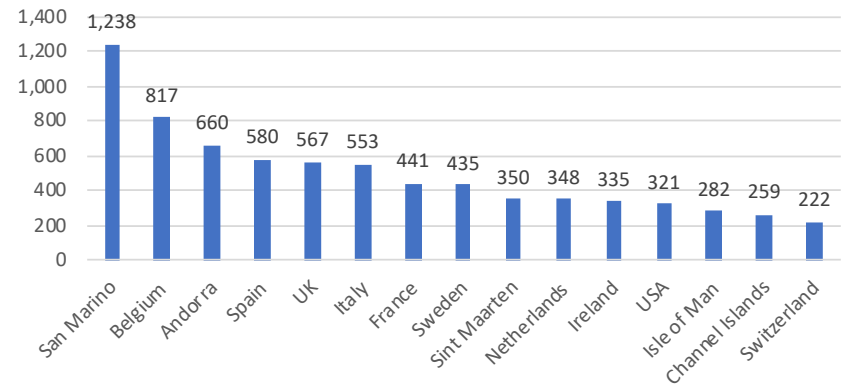


"Strategic Guidance in an Era of Unprecedented Change"

Countries Ranked By Deaths
May 31



Countries Ranked By Deaths / 1 Million
May 31



UNITED STATES & STATE-BY-STATE INFORMATION

State-by-State Comparative Statistics

"Strategic Guidance in an Era of Unprecedented Change"

As of May 31

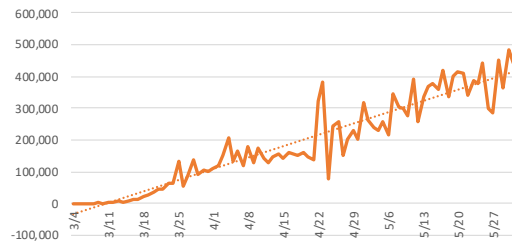
State	Total Cases	Rank	Cases per 1M Population	Rank2	Deaths	Rank3	Death Rate	Rank4	Deaths per 1 Million Population	Rank5	5-day Moving Average Case Growth Rate	Rank6	Tests per 1M Population Past 7 days	Rank7	New Daily Cases Per 1M Population (5-Day M.A.)	Rank8
Alabama	17,903	(25)	3,651.3	(23)	631	(25)	3.5%	(34)	128.7	(25)	2.7%	(5)	925	(37)	99.8	(12)
Alaska	460	(51)	628.8	(49)	10	(51)	2.2%	(45)	13.7	(50)	2.3%	(13)	1,599	(9)	10.2	(48)
Arizona	19,936	(22)	2,738.9	(35)	906	(21)	4.5%	(22)	124.5	(27)	3.5%	(1)	816	(42)	70.6	(17)
Arkansas	7,253	(38)	2,403.4	(37)	133	(40)	1.8%	(46)	44.1	(44)	3.3%	(3)	991	(33)	63.0	(23)
California	112,584	(4)	2,849.3	(32)	4,240	(7)	3.8%	(31)	107.3	(29)	2.4%	(11)	1,309	(17)	65.4	(21)
Colorado	26,378	(18)	4,580.5	(19)	1,445	(16)	5.5%	(12)	250.9	(14)	1.4%	(28)	758	(44)	54.7	(27)
Connecticut	42,201	(13)	11,836.6	(6)	3,944	(8)	9.3%	(2)	1,106.2	(3)	0.4%	(48)	1,439	(14)	69.4	(18)
Delaware	9,498	(34)	9,753.9	(7)	366	(32)	3.9%	(29)	375.9	(12)	0.9%	(43)	1,291	(20)	101.1	(11)
District Of Columbia	8,801	(35)	12,470.4	(5)	466	(29)	5.3%	(13)	660.3	(6)	1.1%	(38)	(1,115)	(51)	139.9	(4)
Florida	56,163	(9)	2,614.9	(36)	2,452	(11)	4.4%	(25)	114.2	(28)	1.5%	(26)	998	(32)	35.2	(38)
Georgia	47,063	(11)	4,432.6	(20)	2,053	(14)	4.4%	(26)	193.4	(16)	1.4%	(30)	(221)	(50)	56.0	(26)
Hawaii	652	(49)	460.5	(51)	17	(49)	2.6%	(41)	12.0	(51)	0.3%	(51)	509	(48)	0.9	(51)
Idaho	2,839	(43)	1,584.2	(44)	82	(43)	2.9%	(39)	45.8	(43)	1.0%	(39)	422	(49)	17.0	(44)
Illinois	120,260	(3)	9,490.3	(8)	5,390	(6)	4.5%	(23)	425.4	(10)	1.2%	(33)	1,695	(6)	112.2	(6)
Indiana	34,574	(16)	5,135.6	(18)	2,134	(13)	6.2%	(8)	317.0	(13)	1.5%	(23)	865	(40)	67.9	(20)
Iowa	19,552	(23)	6,197.0	(12)	535	(27)	2.7%	(40)	169.6	(21)	2.0%	(16)	1,292	(19)	104.1	(9)
Kansas	9,827	(31)	3,373.1	(26)	217	(37)	2.2%	(44)	74.5	(38)	1.2%	(35)	908	(38)	36.4	(36)
Kentucky	9,704	(33)	2,172.0	(41)	431	(30)	4.4%	(24)	96.5	(31)	1.6%	(21)	1,404	(15)	36.2	(37)
Louisiana	39,930	(14)	8,587.2	(10)	2,791	(9)	7.0%	(7)	600.4	(7)	1.0%	(42)	1,815	(4)	84.5	(14)
Maine	2,325	(45)	1,729.6	(42)	89	(42)	3.8%	(30)	66.2	(40)	2.0%	(17)	1,386	(21)	28.7	(41)
Maryland	52,778	(10)	8,729.9	(9)	2,532	(10)	4.8%	(19)	418.8	(11)	2.0%	(15)	1,454	(13)	152.8	(1)
Massachusetts	96,965	(5)	13,952.8	(4)	6,846	(3)	7.1%	(6)	985.1	(4)	0.7%	(46)	1,243	(22)	88.2	(13)
Michigan	57,397	(8)	5,747.3	(14)	5,491	(5)	9.6%	(1)	549.8	(8)	0.8%	(45)	1,479	(12)	38.9	(34)
Minnesota	24,850	(19)	4,406.3	(21)	1,050	(19)	4.2%	(27)	186.2	(17)	2.5%	(9)	1,306	(18)	108.3	(7)
Mississippi	15,501	(26)	5,208.4	(17)	734	(23)	4.7%	(20)	246.6	(15)	2.5%	(10)	1,629	(8)	108.0	(8)
Missouri	13,476	(29)	2,195.7	(40)	785	(22)	5.8%	(10)	127.9	(26)	1.3%	(32)	976	(34)	28.1	(42)
Montana	515	(50)	481.9	(50)	17	(49)	3.3%	(35)	15.9	(49)	1.5%	(24)	858	(41)	4.8	(50)
Nebraska	14,101	(28)	7,289.6	(11)	170	(38)	1.2%	(50)	87.9	(35)	2.2%	(14)	1,325	(16)	145.3	(2)
Nevada	8,593	(36)	2,789.8	(33)	421	(31)	4.9%	(17)	136.7	(24)	1.4%	(27)	1,497	(10)	38.2	(35)
New Hampshire	4,651	(41)	3,420.6	(24)	245	(36)	5.3%	(14)	180.2	(19)	1.9%	(18)	1,128	(27)	52.7	(28)
New Jersey	161,764	(2)	18,212.2	(2)	11,711	(2)	7.2%	(5)	1,318.5	(2)	0.6%	(47)	2,289	(3)	102.6	(10)
New Mexico	7,689	(37)	3,667.0	(22)	356	(34)	4.6%	(21)	169.8	(20)	1.5%	(22)	1,726	(5)	50.8	(29)
New York	379,902	(1)	19,528.7	(1)	29,918	(1)	7.9%	(3)	1,537.9	(1)	0.3%	(49)	2,673	(2)	64.0	(22)
North Carolina	28,784	(17)	2,744.4	(34)	937	(20)	3.3%	(36)	89.3	(33)	3.3%	(2)	1,085	(29)	73.8	(16)
North Dakota	2,577	(44)	3,381.6	(25)	61	(46)	2.4%	(43)	80.0	(37)	1.0%	(41)	1,228	(24)	29.8	(40)
Ohio	35,553	(15)	3,041.6	(30)	2,162	(12)	6.1%	(9)	185.0	(18)	1.5%	(25)	811	(43)	43.8	(32)
Oklahoma	6,506	(39)	1,644.2	(43)	334	(35)	5.1%	(15)	84.4	(36)	1.2%	(36)	1,163	(26)	16.9	(45)
Oregon	4,243	(42)	1,006.0	(48)	153	(39)	3.6%	(33)	36.3	(46)	1.4%	(31)	576	(47)	10.7	(47)
Pennsylvania	76,222	(6)	5,953.9	(13)	5,578	(4)	7.3%	(4)	435.7	(9)	0.9%	(44)	665	(46)	50.7	(30)
Rhode Island	14,928	(27)	14,091.5	(3)	718	(24)	4.8%	(18)	677.8	(5)	1.0%	(40)	2,939	(11)	116.4	(5)
South Carolina	11,861	(30)	2,303.7	(38)	494	(28)	4.2%	(28)	95.9	(32)	2.6%	(6)	1,006	(31)	49.0	(31)
South Dakota	4,993	(40)	5,644.0	(15)	62	(45)	1.2%	(49)	70.1	(39)	1.4%	(29)	1,489	(11)	69.4	(19)
Tennessee	23,006	(20)	3,366.8	(27)	364	(33)	1.6%	(48)	53.3	(42)	1.9%	(19)	1,096	(28)	59.8	(25)
Texas	64,899	(7)	2,238.2	(39)	1,686	(15)	2.6%	(42)	58.1	(41)	2.4%	(12)	927	(36)	43.0	(33)
Utah	9,797	(32)	3,055.9	(29)	113	(41)	1.2%	(51)	35.2	(47)	2.6%	(7)	868	(39)	62.6	(24)
Vermont	981	(47)	1,572.1	(45)	55	(47)	5.6%	(11)	88.1	(34)	0.3%	(50)	1,232	(23)	5.7	(49)
Virginia	44,607	(12)	5,226.0	(16)	1,375	(17)	3.1%	(38)	161.1	(22)	2.5%	(8)	1,193	(25)	140.0	(3)
Washington	22,471	(21)	2,950.9	(31)	1,126	(18)	5.0%	(16)	147.9	(23)	1.2%	(37)	714	(45)	35.2	(39)
West Virginia	2,010	(46)	1,124.7	(47)	75	(44)	3.7%	(32)	42.0	(45)	1.6%	(20)	953	(35)	19.1	(43)
Wisconsin	18,403	(24)	3,160.7	(28)	592	(26)	3.2%	(37)	101.7	(30)	3.0%	(4)	1,644	(7)	76.7	(15)
Wyoming	903	(48)	1,560.2	(46)	16	(50)	1.8%	(47)	27.6	(48)	1.2%	(34)	1,076	(30)	16.0	(46)
United States	1,837,170		5,550.3		106,195		5.8%		320.8		1.3%		1,196		65.1	

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"Strategic Guidance in an Era of Unprecedented Change"

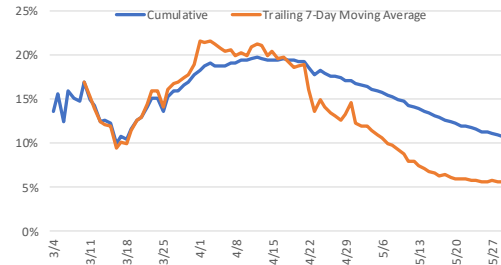
With significantly increased testing, the US is now meeting the WHO standard of <10% test-positives. This suggests that asymptomatic cases are being captured and that we have a better view of true infection rates. Further, new daily infections continue to decline; the death rate seems to have stabilized.

New Daily Tests - US



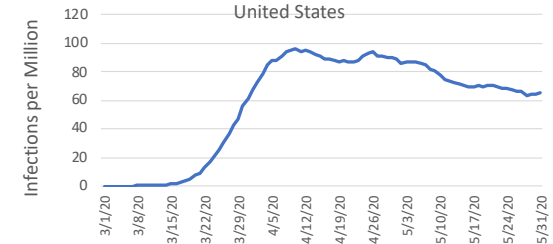
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Test-Positive Rate



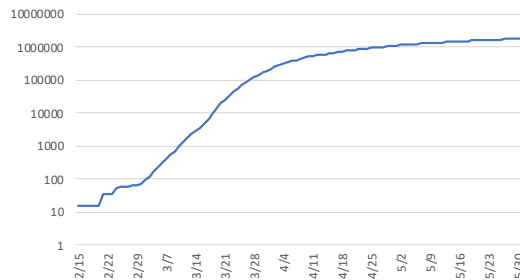
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New Daily Infections Per 1M
Trailing 7-Day Moving Average
United States



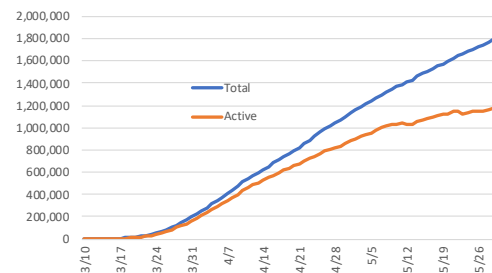
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Total Cases Log Scale - US



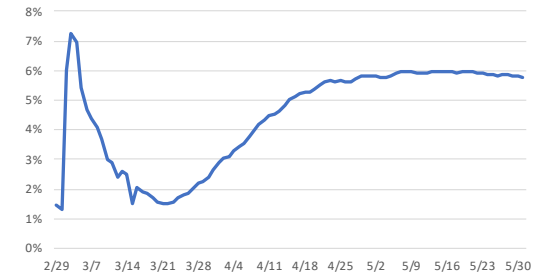
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Cases - US



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Deaths Per Case - US

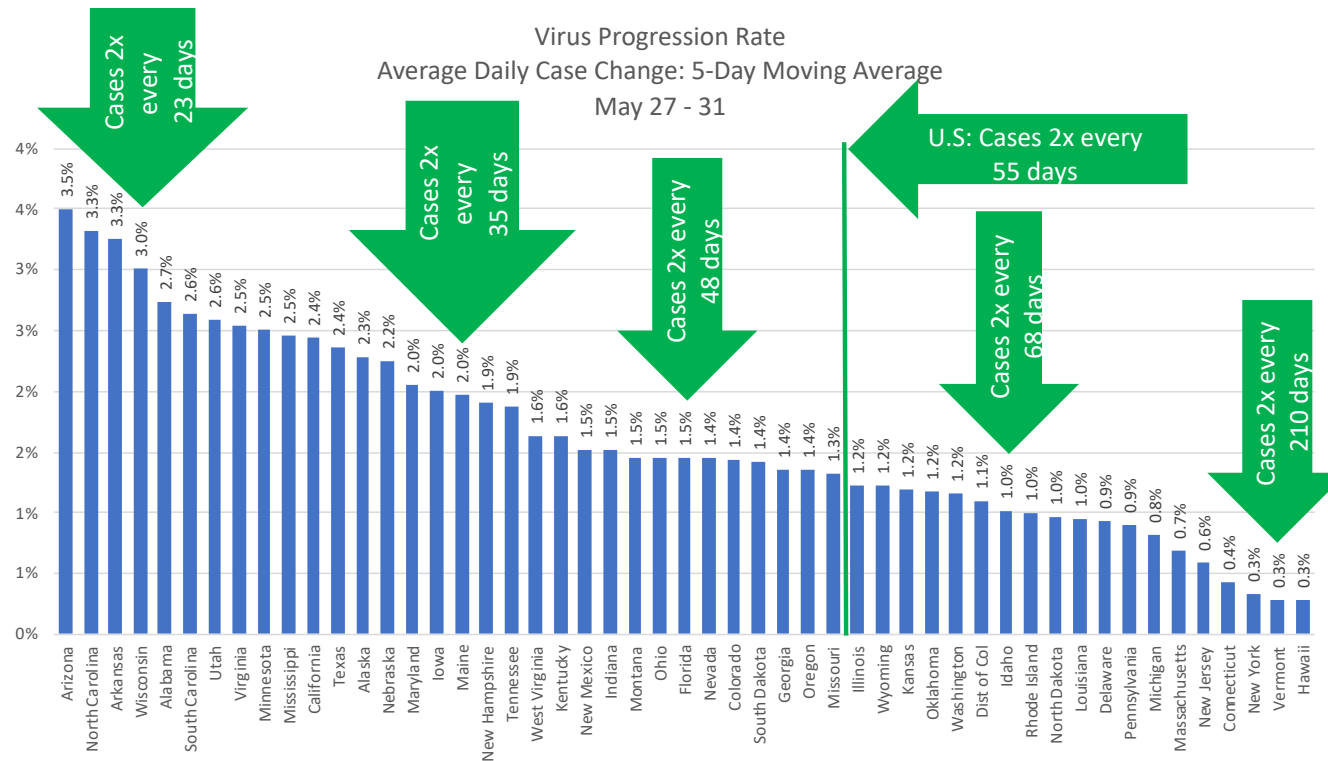


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State-by-State Average Daily Case Growth

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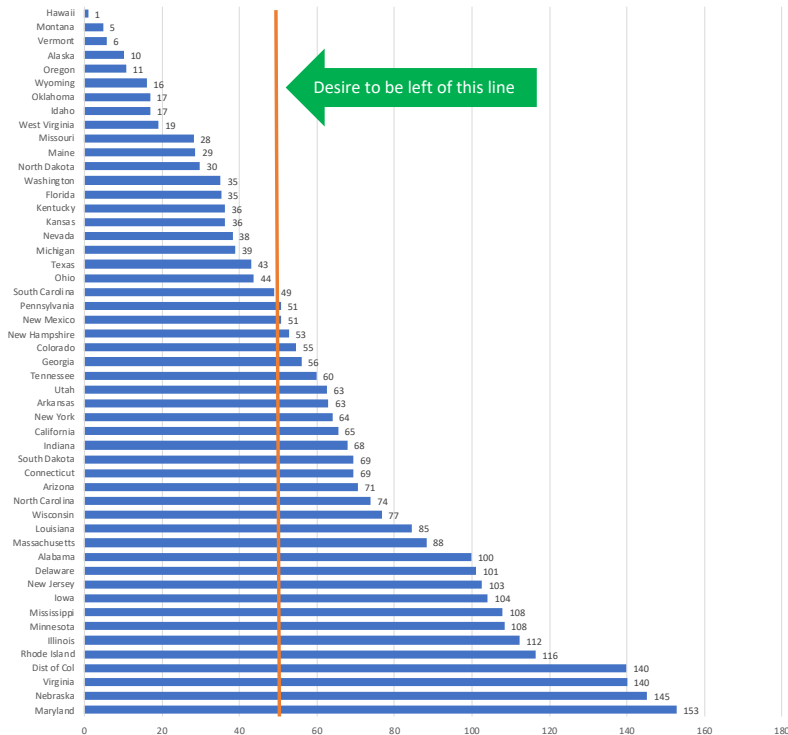
Just 1 month ago, cases in every state were doubling every 1 – 3 weeks.
Now, they would take from 20 days nearly a year to double



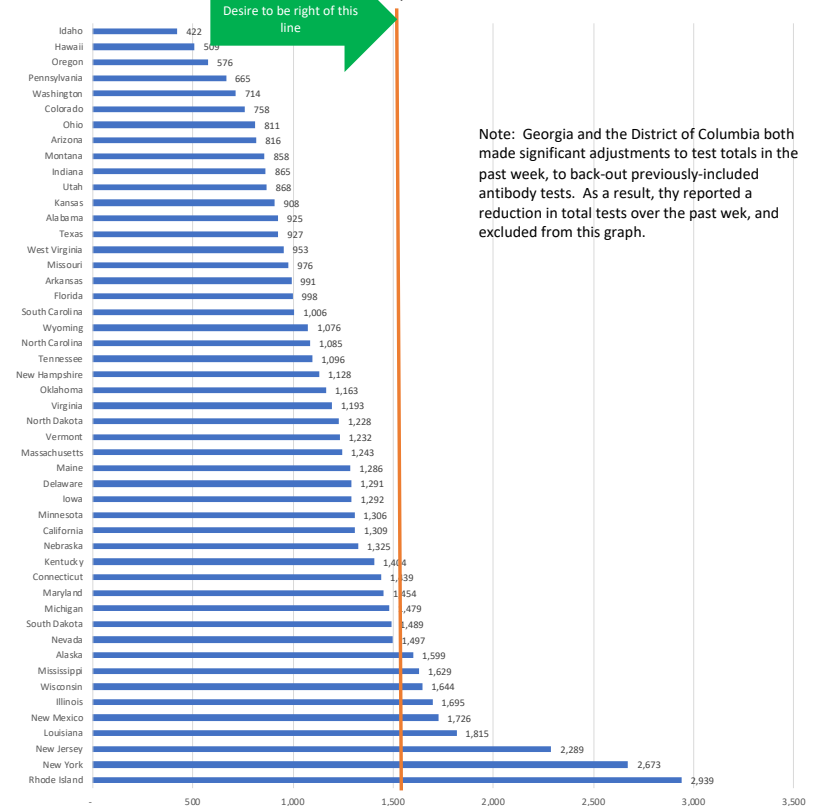
State-by-State New Daily Infections & Tests Per Capita

"Strategic Guidance in an Era of Unprecedented Change"

New Daily Infections Per 1 Million Population
By State
May 25 - 31



Daily Tests Per 1 Million Population
By State
May 25 - 31

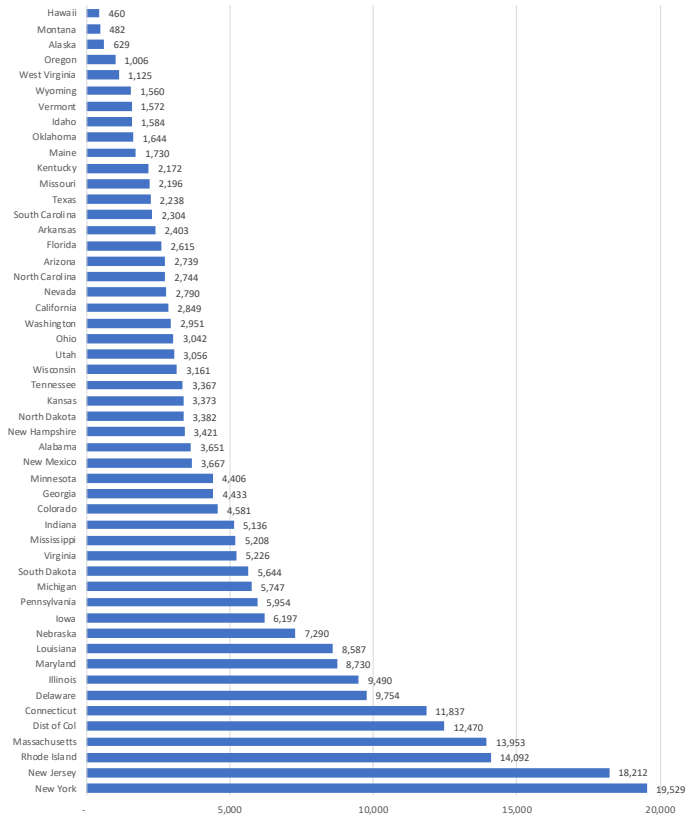


Note: Georgia and the District of Columbia both made significant adjustments to test totals in the past week, to back-out previously-included antibody tests. As a result, they reported a reduction in total tests over the past week, and excluded from this graph.

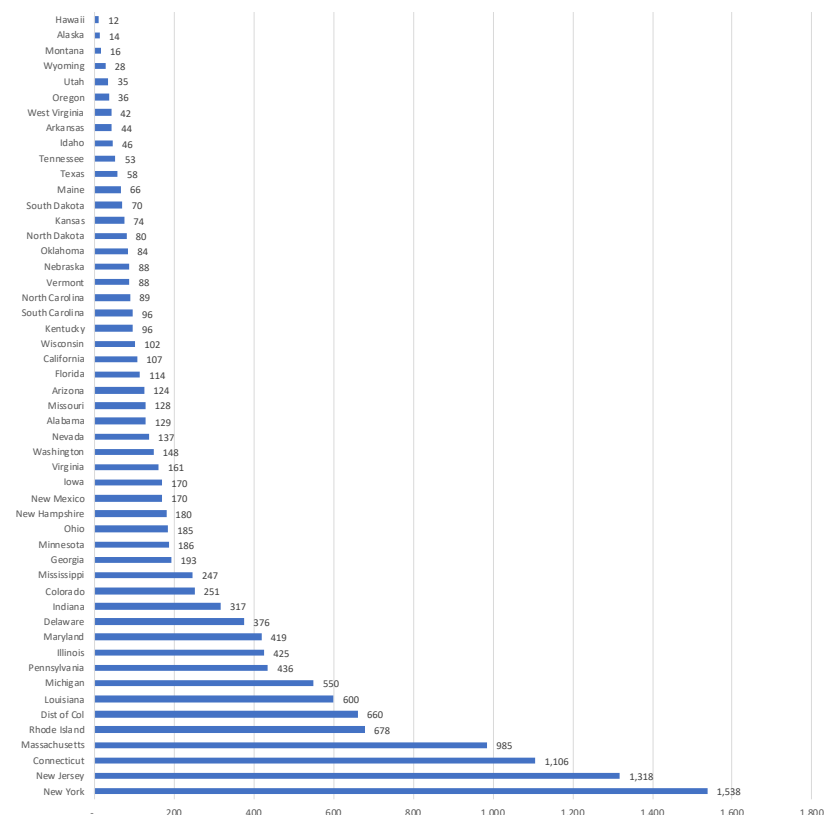
State-by-State Cases & Deaths Per Capita

"Strategic Guidance in an Era of Unprecedented Change"

Total Cases Per 1 Million Population
By State
As of May 31



Deaths Per 1 Million Population
By State
As of May 31



Which States Are Performing Sufficient Tests?

"Strategic Guidance in an Era of Unprecedented Change"

The [World Health Organization](#) suggested that the test-positive rate should be 10% or lower, for testing to be sufficient to assess the true prevalence of the virus. All except 4 states met this guideline for the past week.



STATE-BY-STATE READINESS FOR RELAXING RESTRICTIONS

“Strategic Guidance in an Era of Unprecedented Change”

We recently 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.**

Readiness For Relaxing Restrictions

"Strategic Guidance in an Era of Unprecedented Change"

Highlights:

- Progress has been made in several states, on both testing volumes and test-positive rates
 - Most states are still testing far below the minimum 152 daily tests per 1 million population cited in a recent [NY Times article](#); and the higher standard of 2.7% of the population tested weekly (386 daily per 1 million, as suggested by a recent [Kaiser Family Foundation article](#). Both articles referenced Harvard researchers as the source of these metrics
 - Test-positive rates in many states, however, are below or close to the 10% threshold suggested by Dr. Maria Van Kerkhove of the [World Health Organization](#), as indicative of sufficient testing to have reasonable visibility to true infection rates
- As we have progressed past the peak flu season in many states, that “constraint” on re-opening is diminishing
- With the relaxing of restrictions in many states, the [Institute for Health Metrics and Evaluation’s \(IHME\) projections](#) of these states’ hospital resources needs have increased significantly in the past week. Note: these metrics consider hospital resource needs, however, they do not consider capacity

May 31

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

May 24

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

Legend and sources provided on 2nd following page

May 31

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

April 30

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

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

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Sources:

Influenza guidelines and data from Centers for Disease Control (<https://gis.cdc.gov/prasp/fluview/fluportaldashboard.html>), accessed April 30 - May 31, 2020
 Test data from Covid Tracking Project (<https://covidtracking.com/>), accessed March 21-June 1, 2020
 Hospital resource Need projections from Institute for Health Metrics and Evaluation ([I](#)), accessed April 30- May 31, 2020
 Infection rate data from worldometer.info, accessed March 21-June 1, 2020

Articles of interest:

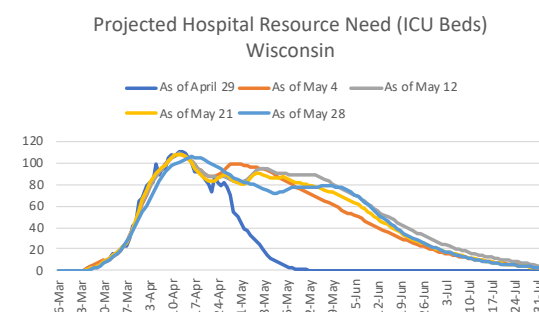
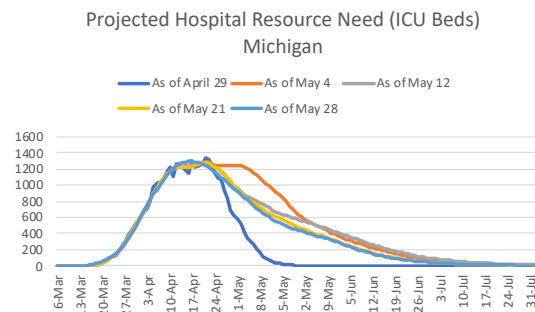
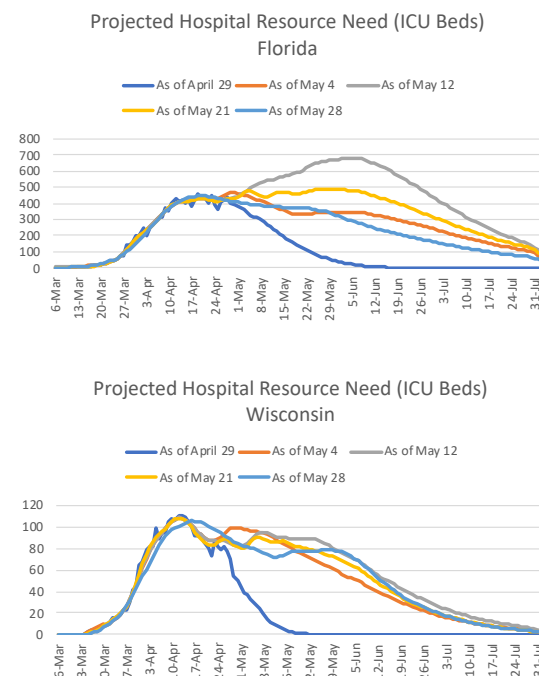
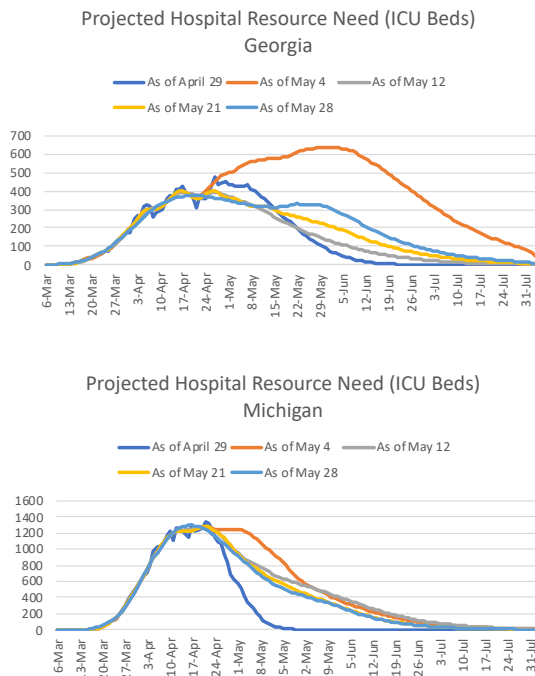
"What does doing enough coronavirus testing look like? Here's a number to watch", Patrick Cain, msn.com, (<https://www.msn.com/en-ca/news/canada/what-does-doing-enough-coronavirus-testing-look-like-heres-a-number-to-watch/ar-BB138Hf4?li=AAggXBV>), accessed April 24, 2020
 "A New Statistic Reveals Why America's COVID-19 Numbers Are Flat", Robinson Meyer and Alexis C. Madrigal, April 16, 2020, The Atlantic, accessed April 24, 2020

Impact of Relaxing Social Distancing

IHME's Hospital Resource Need Projections Are Sensitive to Relaxing Restrictions

"Strategic Guidance in an Era of Unprecedented Change"

The Institute for Health Metrics and Evaluation (IHME) regularly updates projections of hospital resource needs. Comparing their projections from April 29, May 2, 12, 21 and indicates how much relaxing restrictions factors into these projections.



Note: ICU beds were selected as representative of the three metrics that IHME uses: total beds, ICU beds and ventilators. HIA does not vouch for the accuracy of these projections; in our limited experience, they seem to over-state actual needs.

VIRUS PROGRESSION: ROADMAP TO RECOVERY

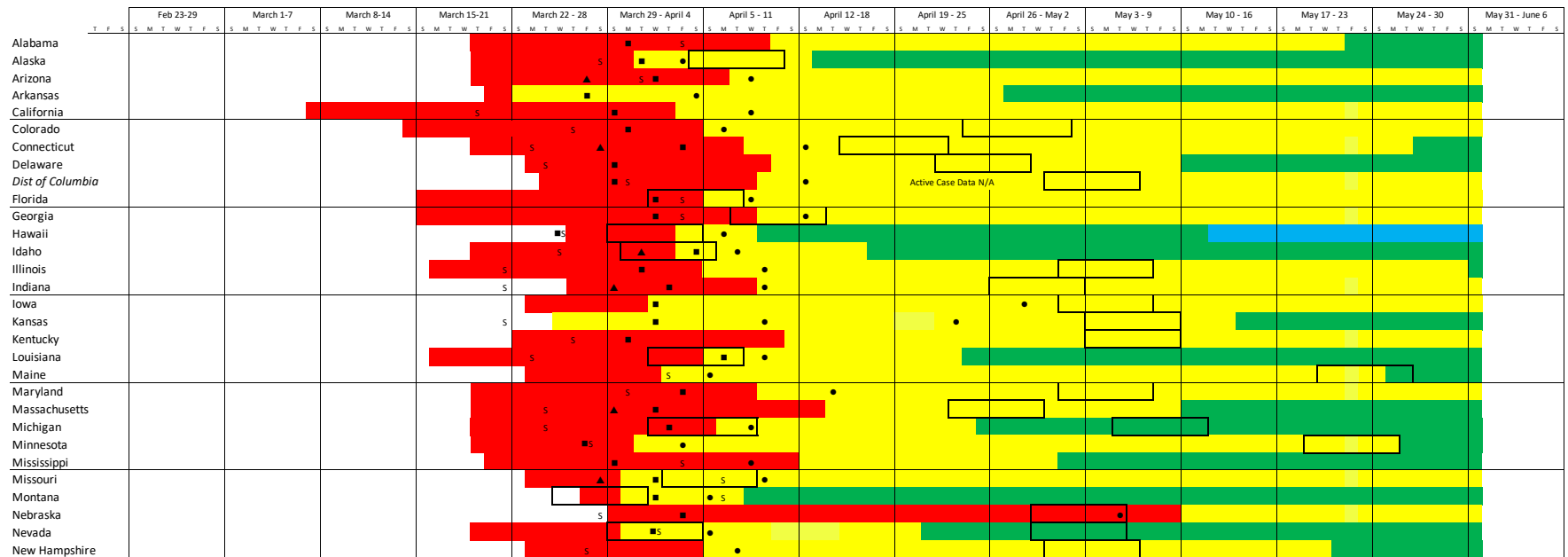
"Strategic Guidance in an Era of Unprecedented Change"

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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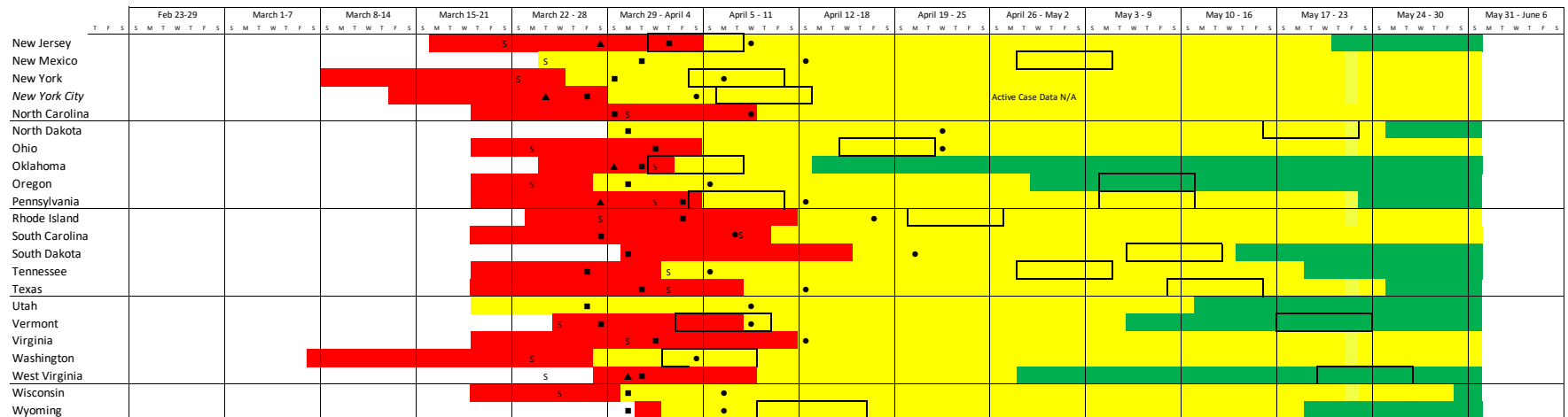


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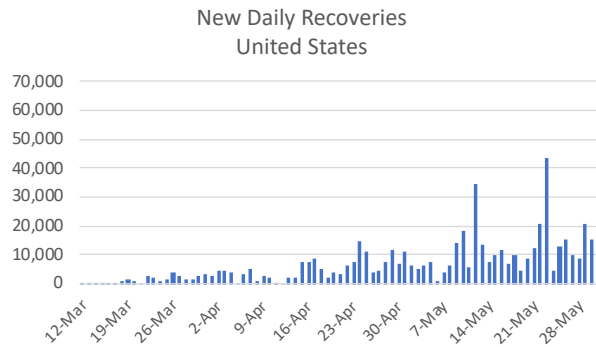
State-by-State Virus Progression – 2 of 2

“Strategic Guidance in an Era of Unprecedented Change”

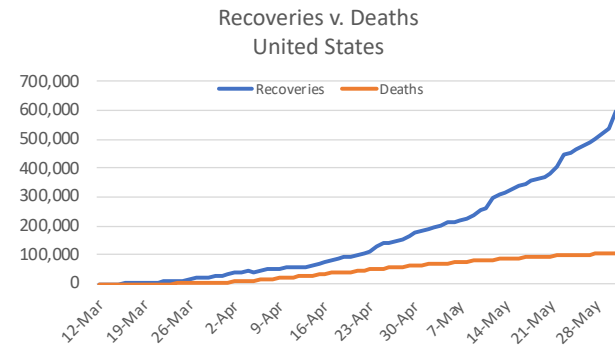


UNDER-REPORTED RECOVERIES? POSSIBLE LAG IN STATE REPORTING

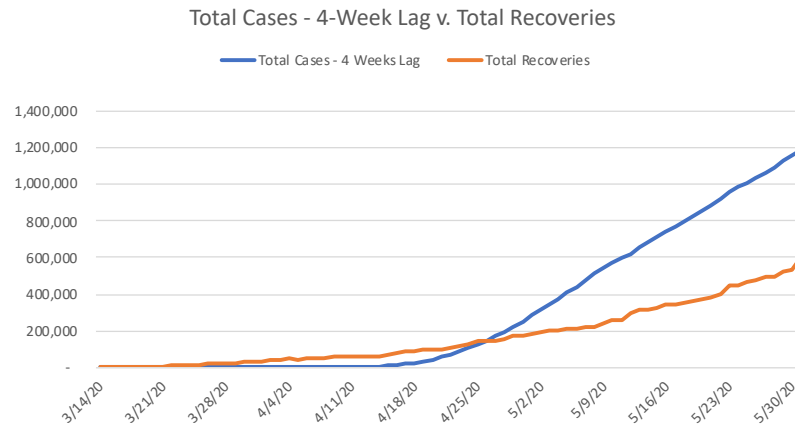
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"Strategic Guidance in an Era of Unprecedented Change"

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 ~350-470k

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

State	Recoveries	Expected Recoveries	
		Low	High
Alabama	9,355	6,310	7,099
Alaska	368	294	331
Arizona	70	6,912	7,776
Arkansas	5,275	2,745	3,088
California	23,768	43,887	49,373
Colorado	2,072	13,308	14,972
Connecticut	7,511	23,430	26,358
Delaware	5,266	4,166	4,687
District Of Columbia	1,116	4,013	4,514
Florida	9,248	28,862	32,470
Georgia	697	22,937	25,804
Hawaii	608	496	558
Idaho	2,248	1,649	1,855
Illinois	61,985	49,199	55,349
Indiana	2,778	15,946	17,940
Iowa	11,165	7,335	8,252
Kansas	4,379	3,917	4,406
Kentucky	3,231	4,104	4,617
Louisiana	28,700	23,472	26,406
Maine	1,552	948	1,067
Maryland	3,764	20,370	22,916
Massachusetts	46,354	54,470	61,278
Michigan	38,099	35,003	39,379
Minnesota	18,695	5,330	5,997
Mississippi	9,401	6,040	6,795
Missouri	3,185	6,747	7,591
Montana	456	364	410
Nebraska	592	4,527	5,093
Nevada	6,316	4,341	4,883
New Hampshire	2,948	2,014	2,266
New Jersey	17,646	101,950	114,694
New Mexico	2,853	3,080	3,465
New York	66,603	259,106	291,495
North Carolina	14,954	9,394	10,569
North Dakota	1,959	953	1,072
Ohio	6,036	15,933	17,924
Oklahoma	5,438	3,178	3,575
Oregon	1,894	2,144	2,412
Pennsylvania	48,190	41,638	46,843
Rhode Island	1,252	7,582	8,529
South Carolina	6,043	5,301	5,963
South Dakota	3,837	2,105	2,368
Tennessee	15,193	10,542	11,859
Texas	42,423	25,594	28,794
Utah	6,137	4,140	4,658
Vermont	873	718	807
Virginia	5,868	14,937	16,804
Washington	6,194	12,621	14,198
West Virginia	1,303	956	1,076
Wisconsin	11,646	6,371	7,168
Wyoming	658	469	527
United States	599,867	950,498	1,069,310

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

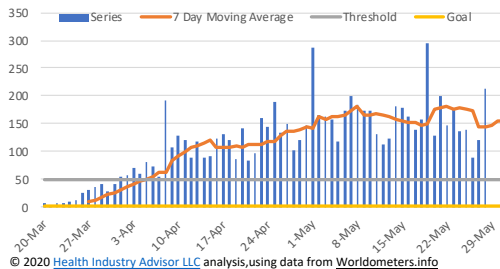
States seemingly up-to-date with reporting recoveries
States only reporting ~ 1/2 expected recoveries
States well-behind in reporting recoveries

STATES WITH THE HIGHEST NEW DAILY INFECTION RATES

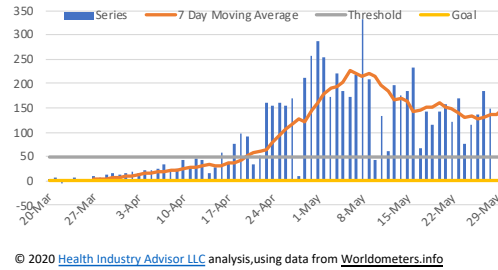
State-By-State States With the Highest Current New Daily Infection Rates

"Strategic Guidance in an Era of Unprecedented Change"

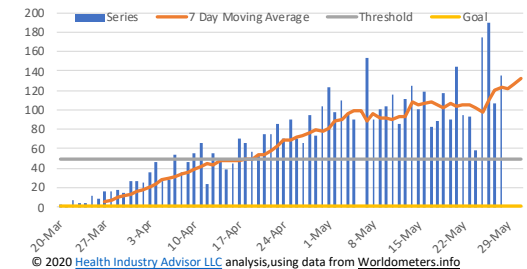
New Infections Per 1M Population
Maryland



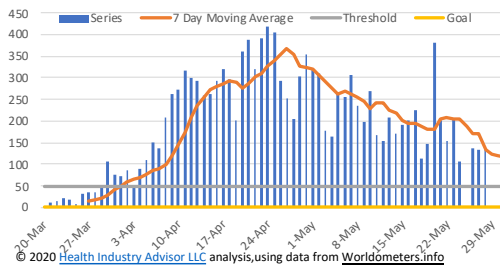
New Infections Per 1M Population
Nebraska



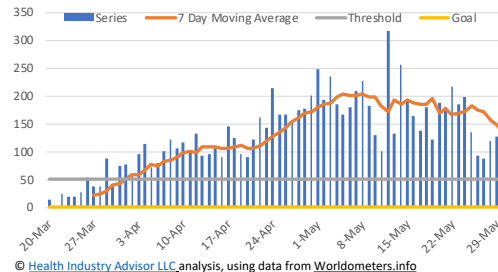
New Infections Per 1M Population
Virginia



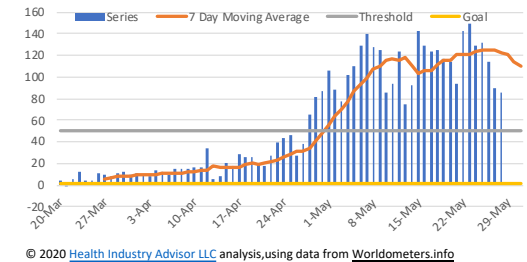
New Infections Per 1M Population
Rhode Island



New Infections Per 1M Population
Illinois



New Infections Per 1M Population
Minnesota



STATE TEST, INFECTION AND CASE TRENDS

"Strategic Guidance in an Era of Unprecedented Change"

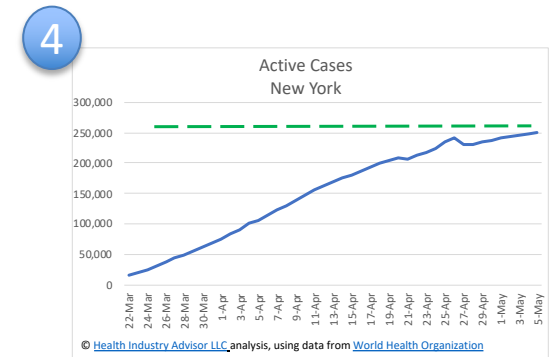
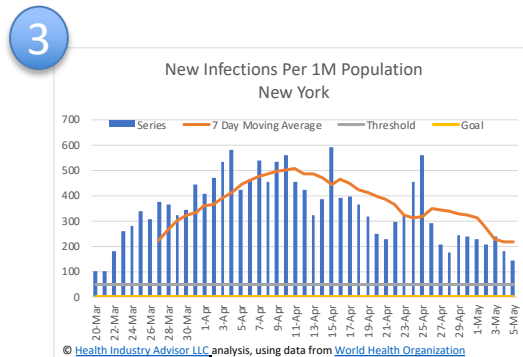
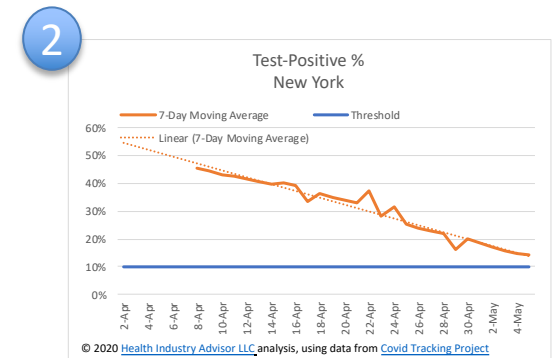
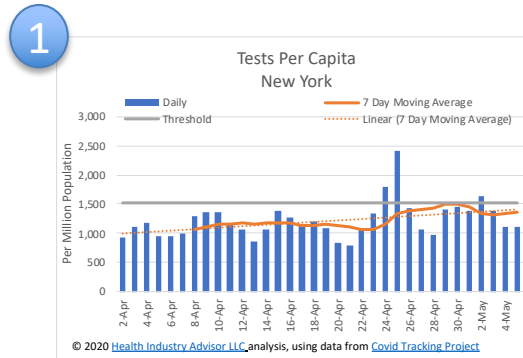
On Mondays, Wednesday and Fridays we provide graphics relevant to judging how far a state (or the District of Columbia) has progressed against the virus. Seventeen states (or, sixteen and D.C.) are presented at a time. Today, we provide:

- Alabama
- Alaska
- Arizona
- Arkansas
- California
- Colorado
- Connecticut
- Delaware
- District of Columbia
- Florida
- Georgia
- Hawaii
- Idaho
- Illinois
- Indiana
- Iowa
- Kansas

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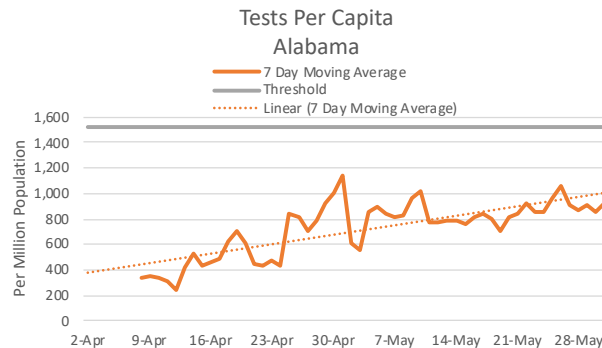
How to "read" these charts:

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

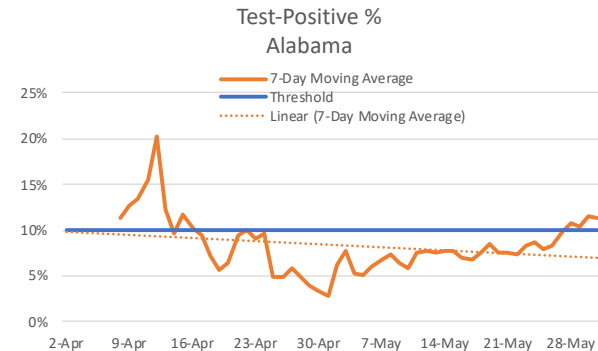


State-by-State Test, New Daily Infection and Active Case Trends

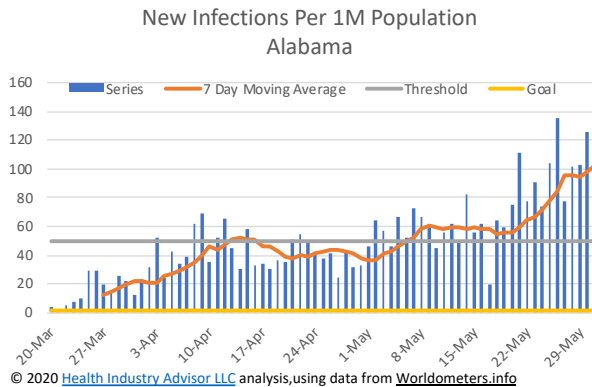
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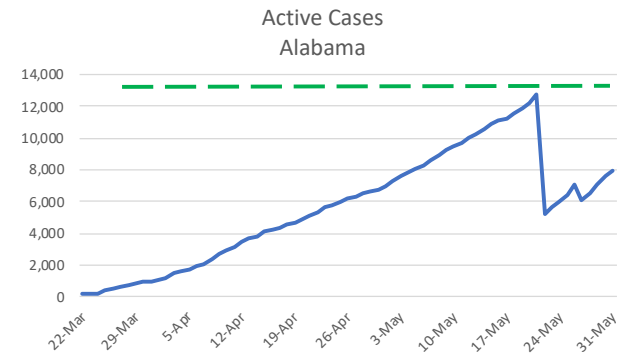
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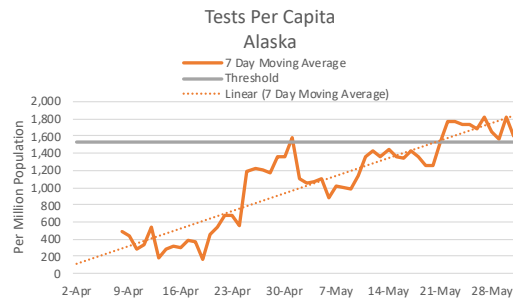
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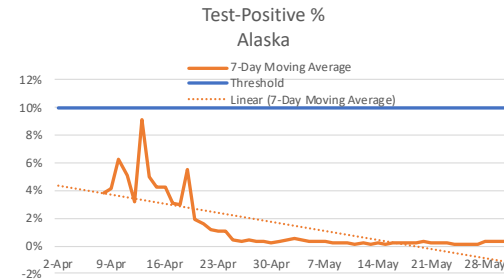
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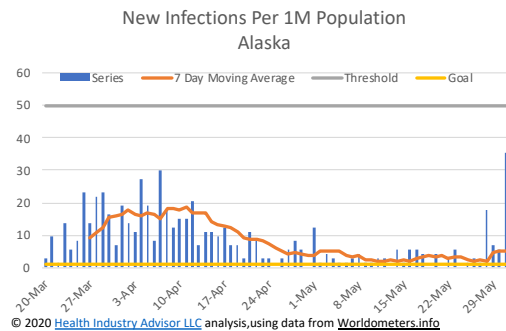
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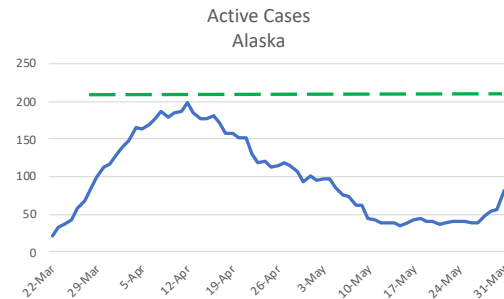
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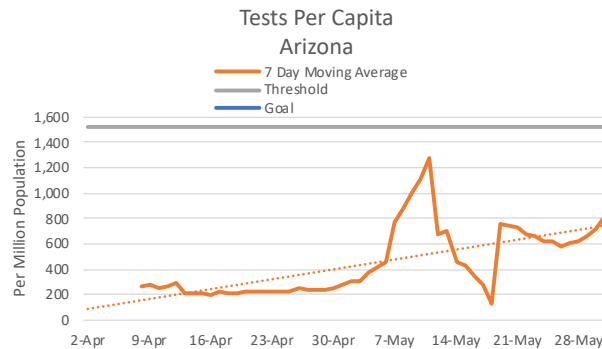
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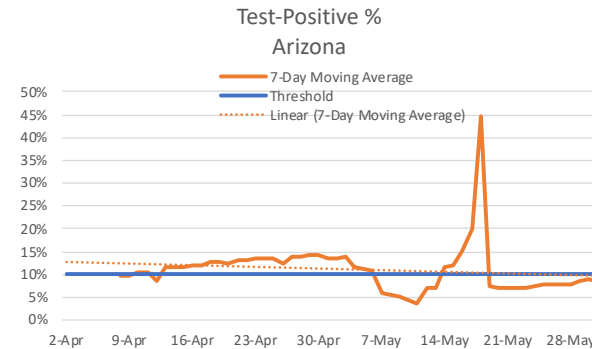
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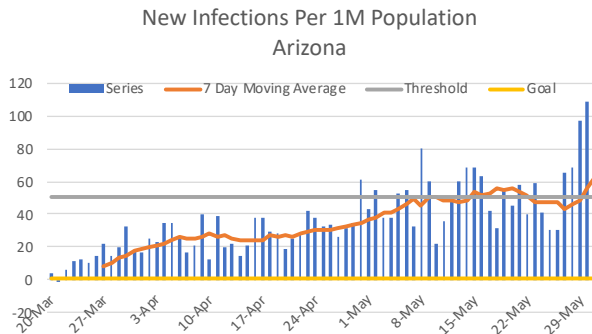
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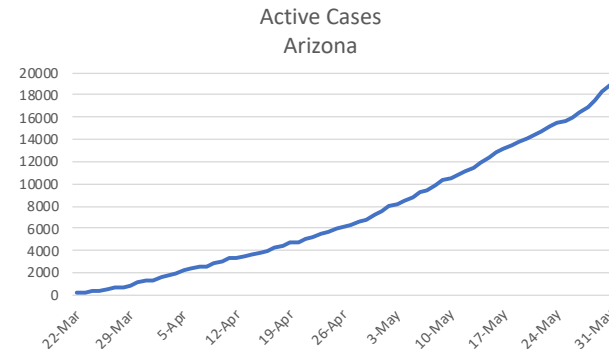
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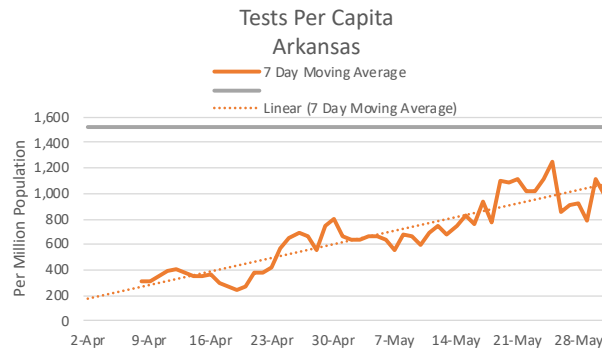
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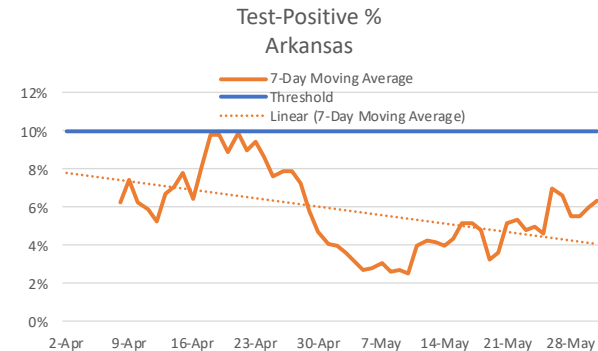
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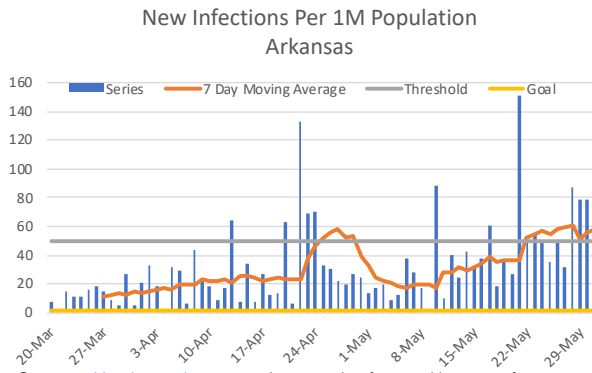
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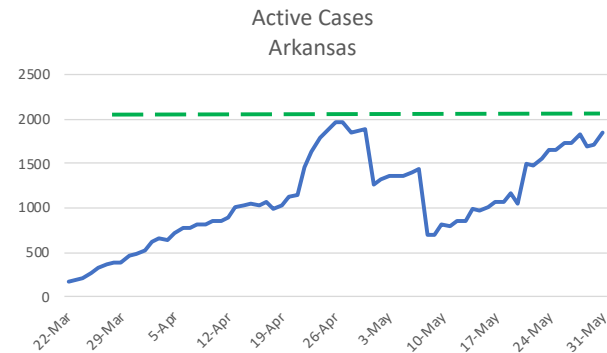
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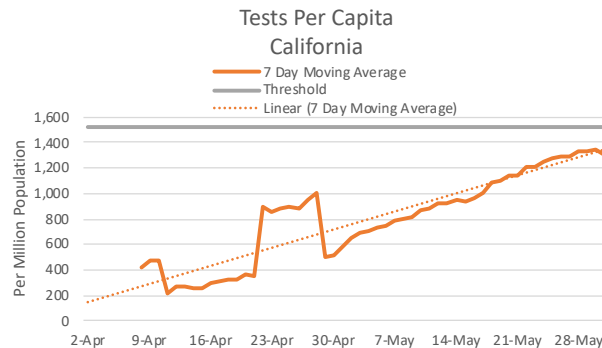
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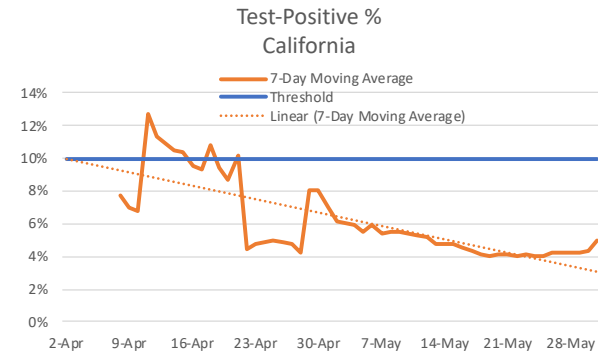
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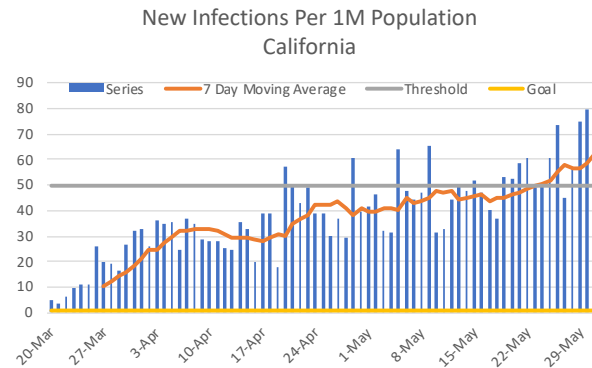
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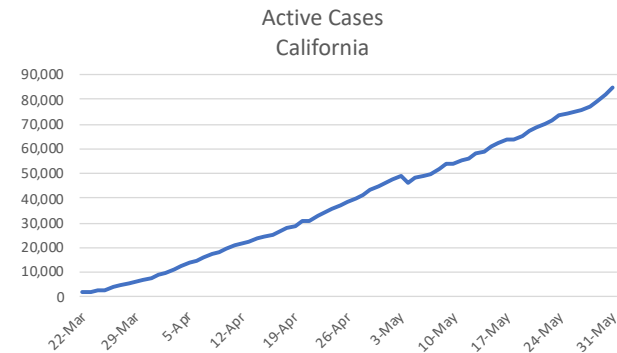
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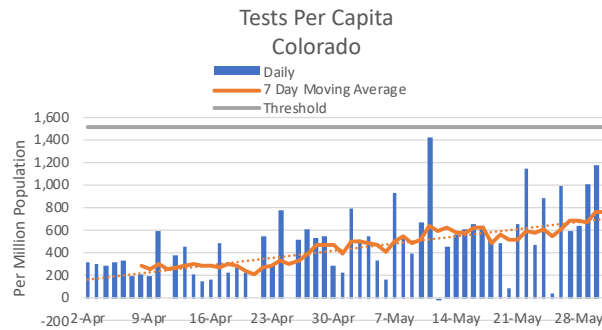


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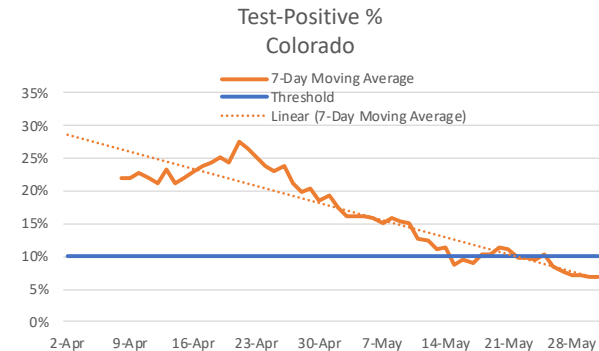


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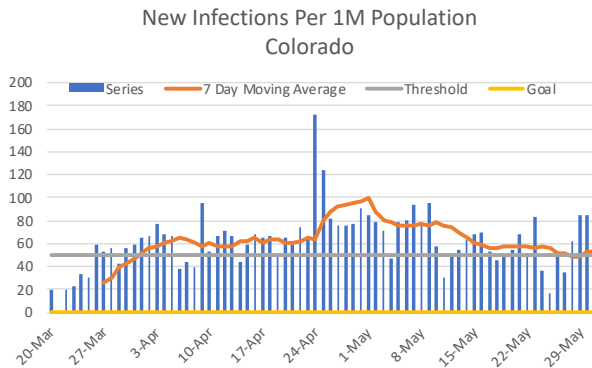
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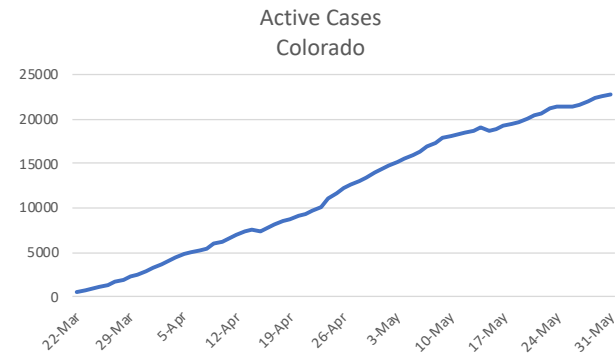
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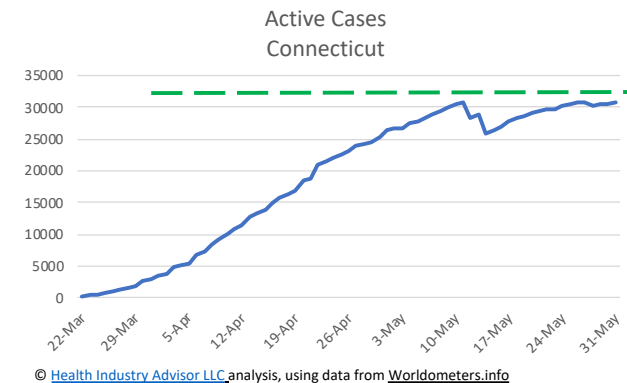
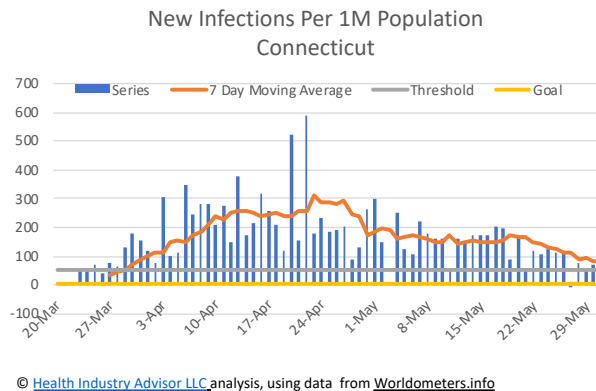
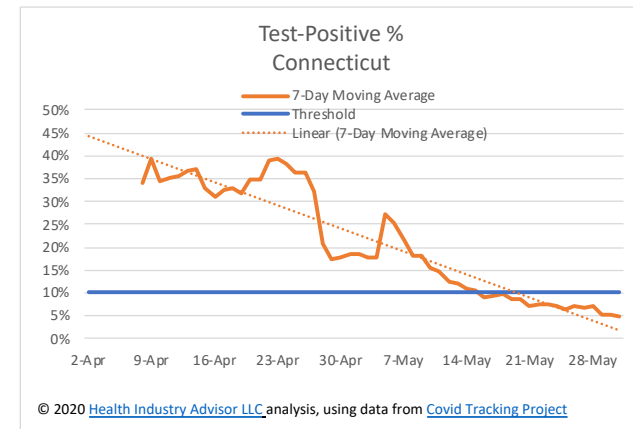
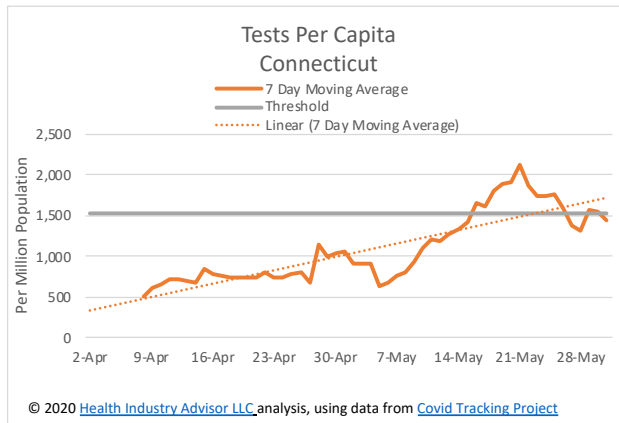


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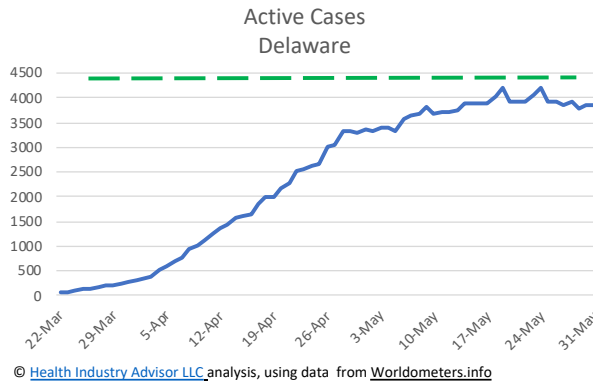
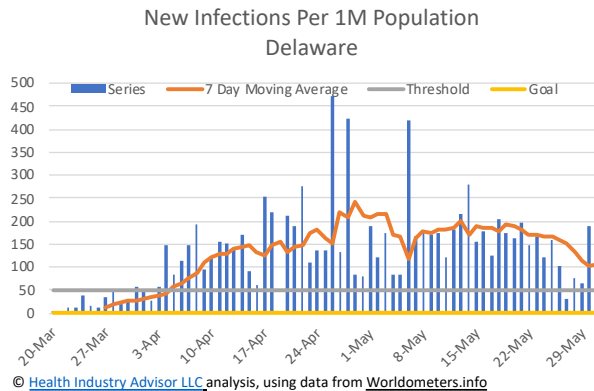
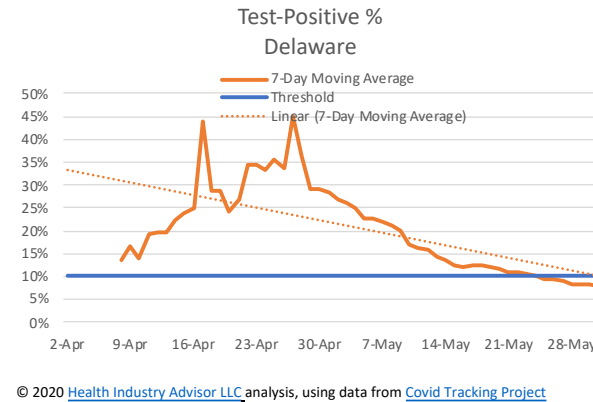
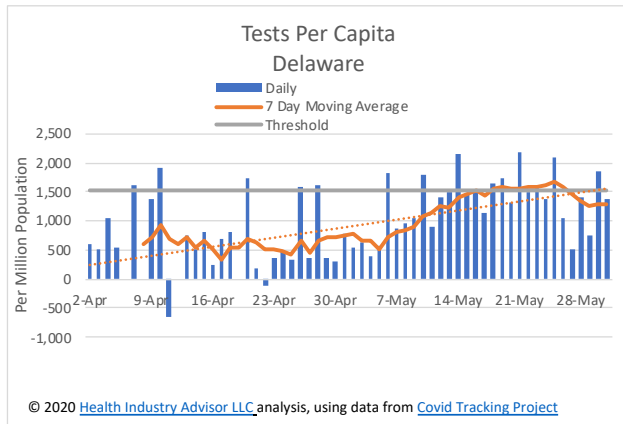


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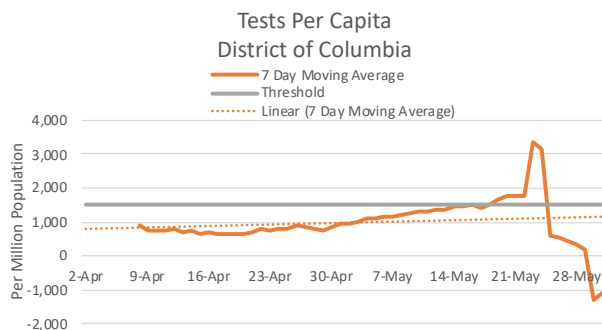
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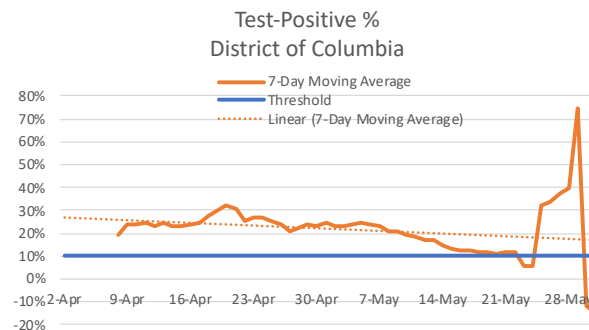
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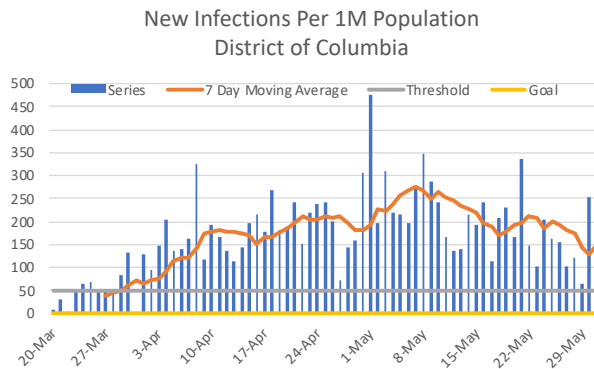
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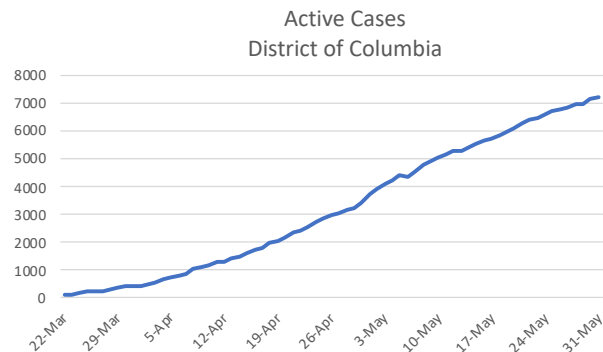
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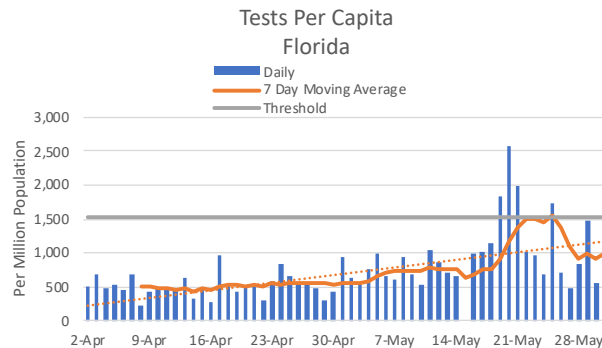


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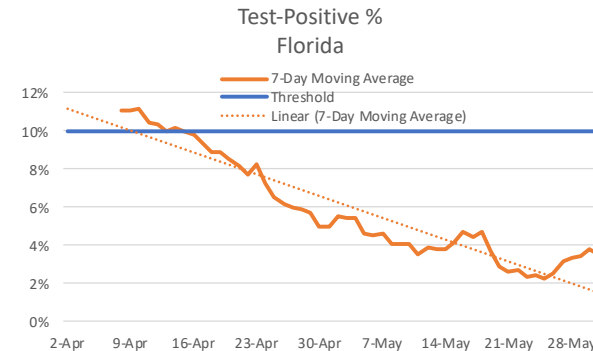


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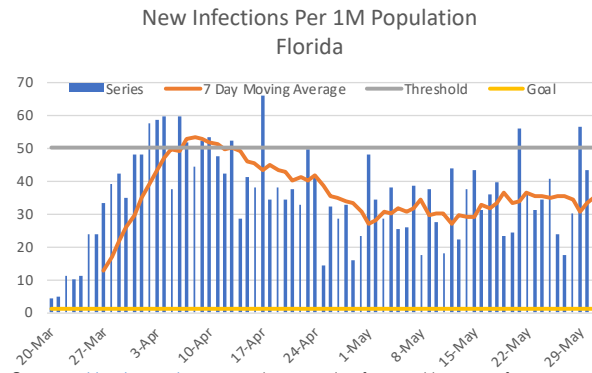
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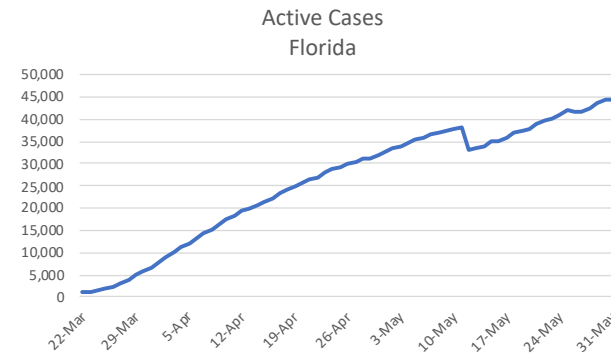
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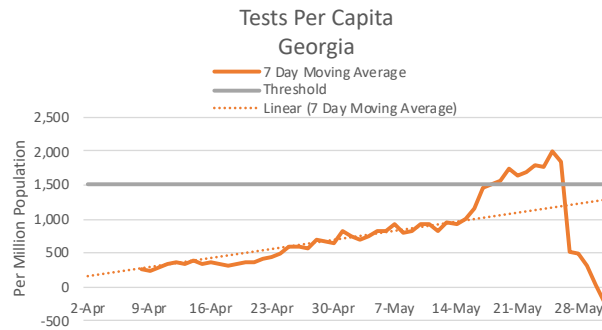
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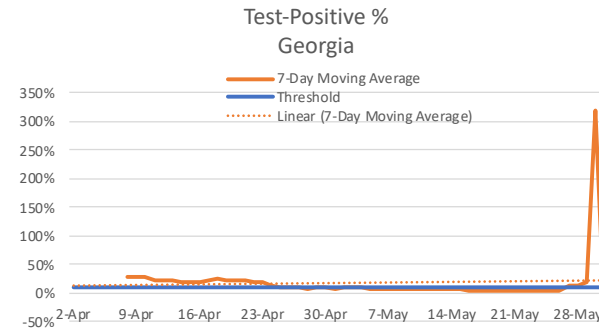
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State-by-State Test, New Daily Infection and Active Case Trends

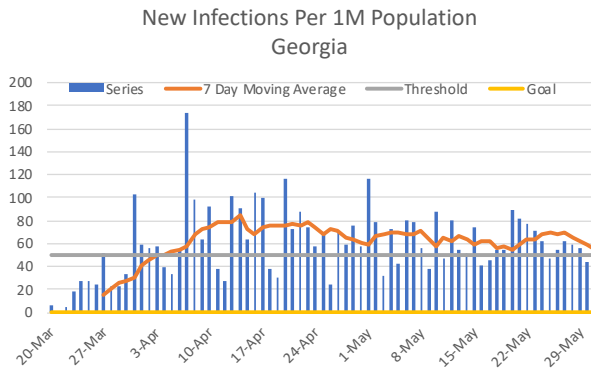
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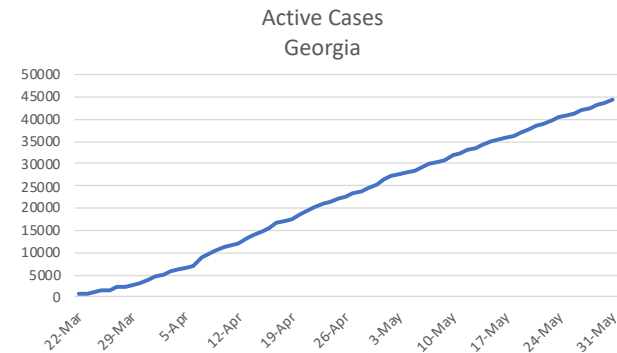
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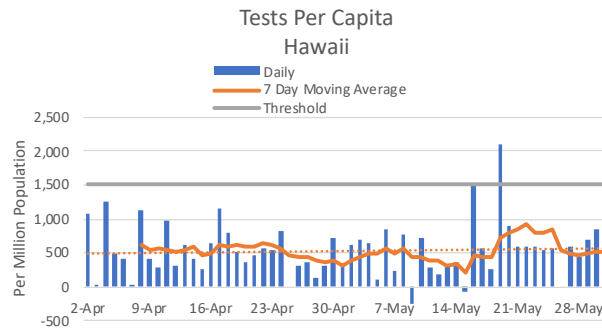


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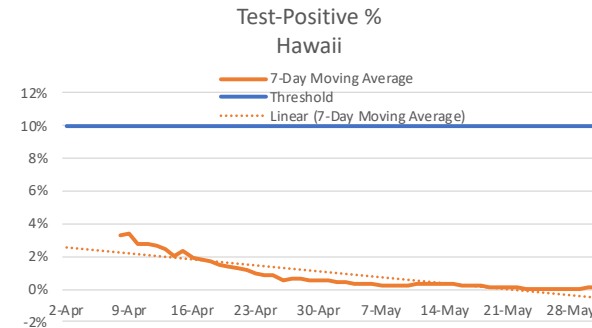


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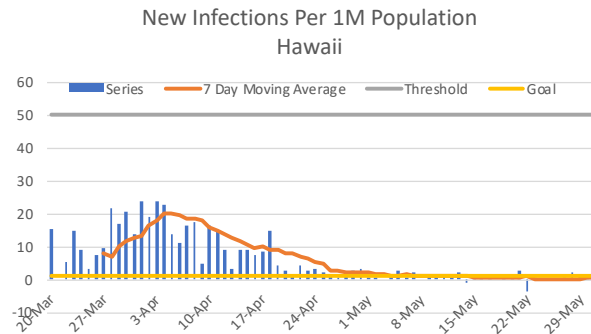
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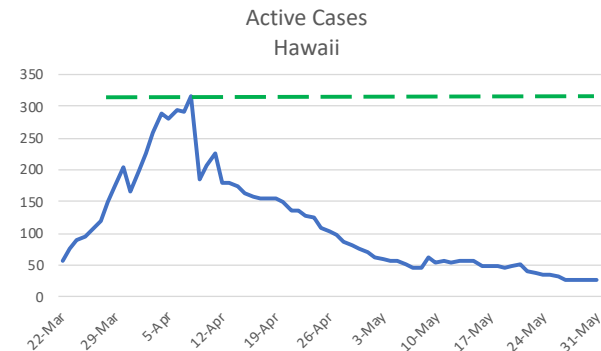
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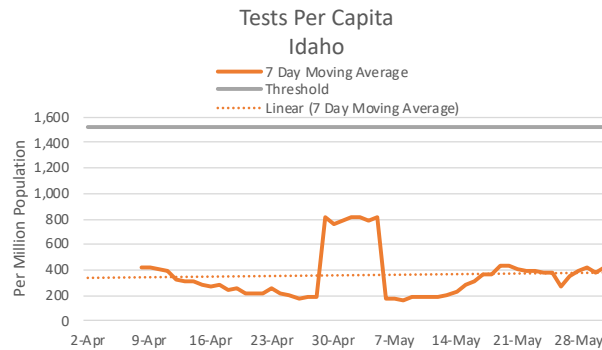
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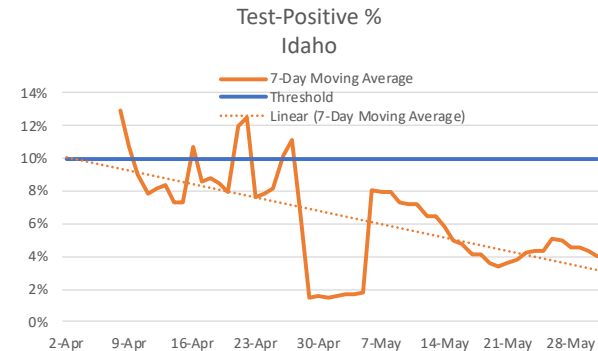
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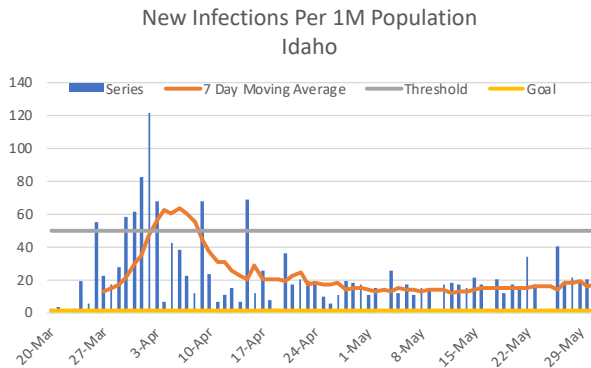
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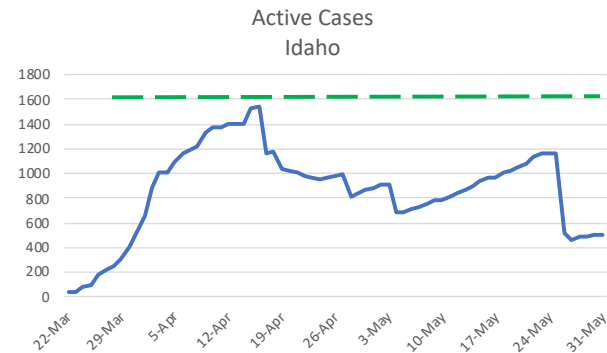
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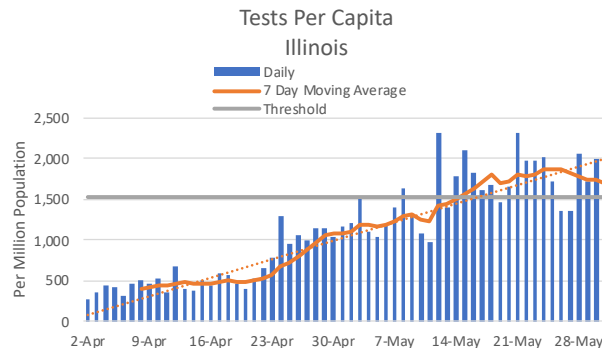


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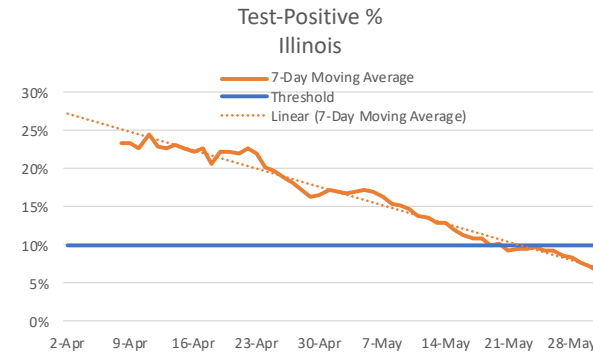


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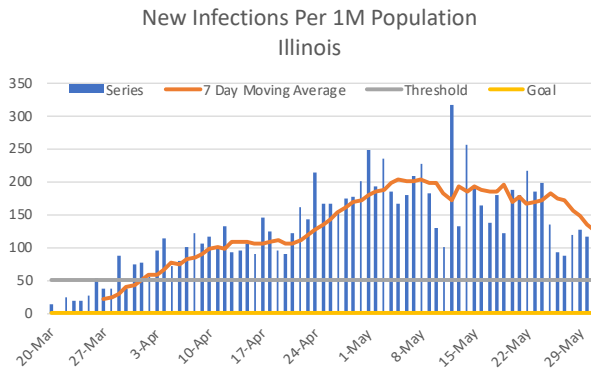
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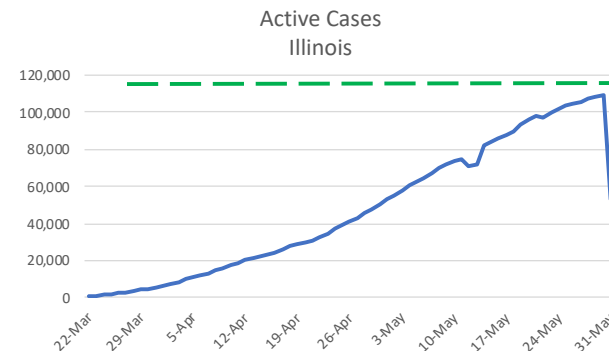
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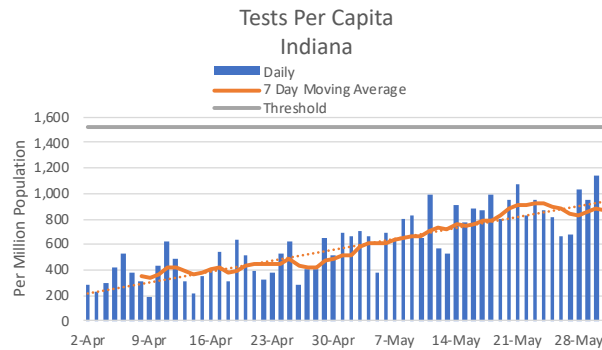
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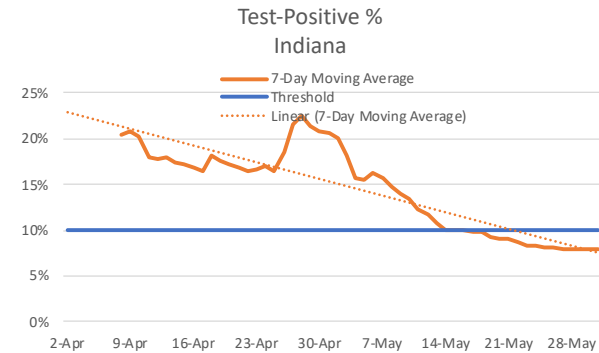
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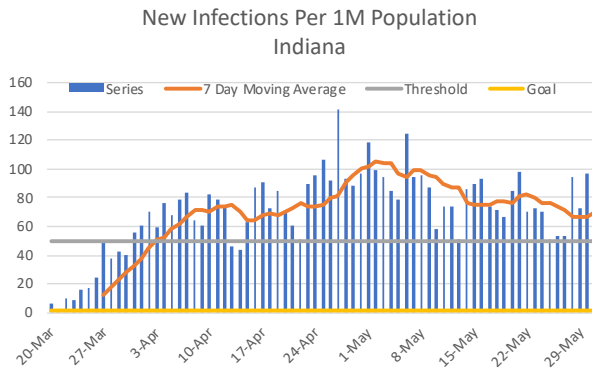
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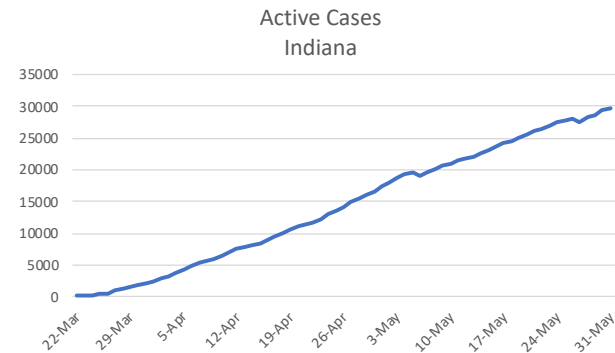
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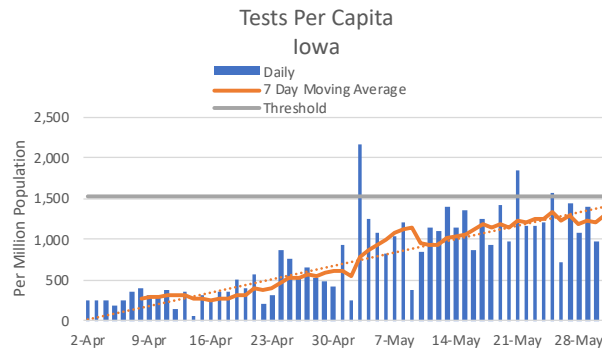
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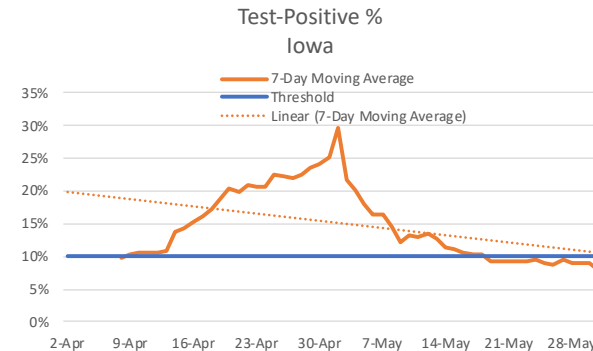
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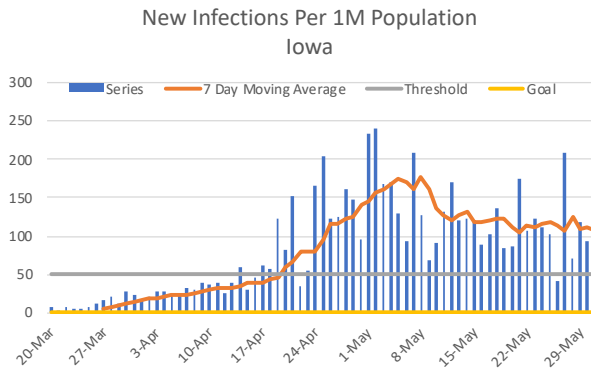
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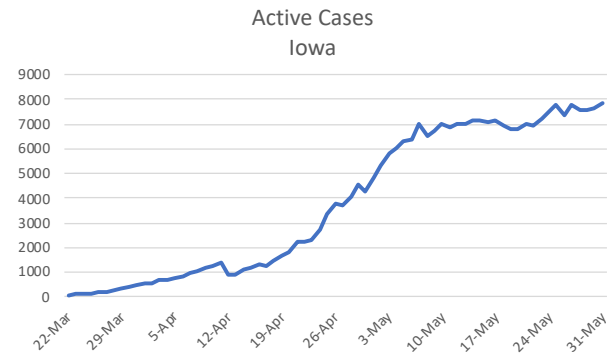
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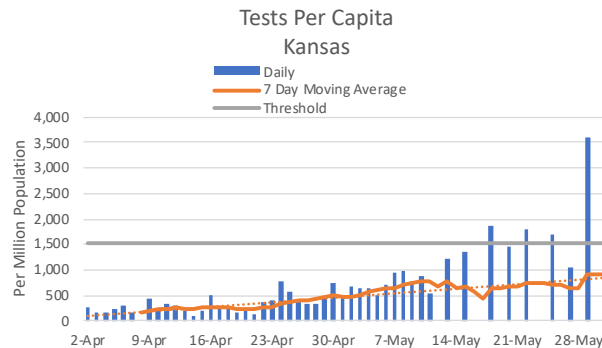
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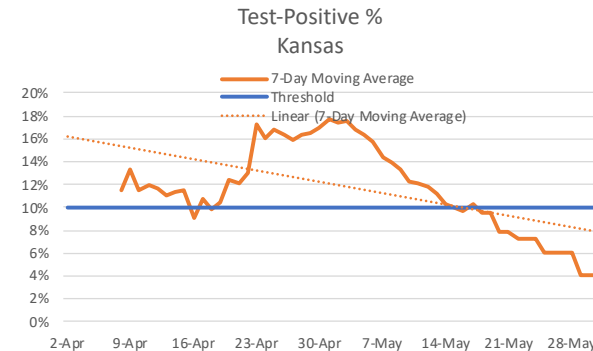
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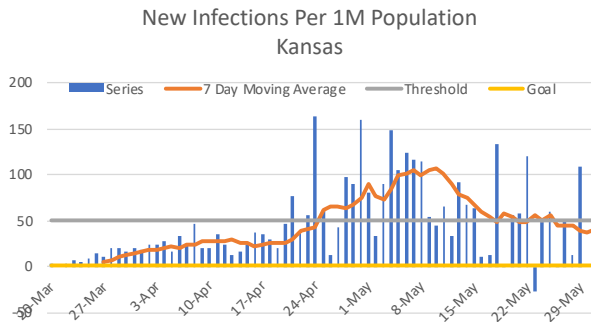
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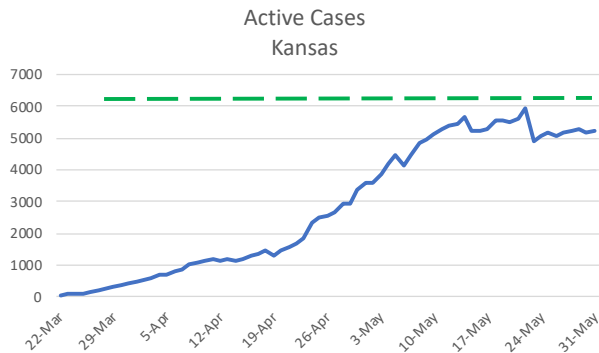
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