

COVID-19 Dashboard

Issue # 63
Saturday, May 30, 2020

Day's Highlights

"Strategic Guidance in an Era of Unprecedented Change"

Measure	Desired Change	Yesterday in the U.S.
Number of Tests	Increase	>364,000 tests on Friday; 371,000 average for past week
Test-Positivity Rate	Decline	6.6% test-positive on Thursday; 5.6% for past 7 days
Number of Cases	Plateau	New Cases down 7.7% week-over-week
Deaths % of Total Cases	Decline	5.8%
Number of Deaths / 1M Population	Plateau	315.8
Recoveries : Death	Increase	4.97

- Several milestones of note:
 - New York City may be days away from recording its 200,000th case, however, cases are increasing by only a few hundred per day now
 - The U.S. should record its 1,800,000th case today; worldwide cases surpassed 6 million on Friday
 - In the U.S., tests surpassed 16 million on Friday
- New cases in the U.S. continue to decline, with new cases down 7.7% week-over-week
- The death rate was maintained at 5.8% for the 4th consecutive day; recoveries now outnumber deaths by ~5:1 (despite recoveries being under-reported by many states; we estimate the actual ratio of recoveries : deaths is 9:1 to 10:1)
- At least 8 states have yet to reach a peak in new daily infections: Alabama, Arizona, California, Mississippi, South Carolina, Utah, Virginia and Wisconsin (Arkansas may have peaked on Wednesday). Of these, only Alabama, Mississippi and Virginia's rates are near or above 100 per day per million population.
- States with the highest new daily infection rates are (in descending order): Maryland, Nebraska, Illinois, Virginia, Rhode Island and Minnesota. Notably, Rhode Island, Nebraska and Illinois' rates are lower than their earlier peak levels; Minnesota, Maryland and Virginia's rates remain at or near peak levels.
- We continue to monitor the impact of the easing of state-by-state restrictions. We are closely monitoring Florida, Georgia and Wisconsin:
 - Georgia, one of the last states to close and first to re-open, seems to be keeping infections under control following re-opening
 - Florida, which has received great scrutiny for perhaps re-opening early, similarly seems to be keeping infections under control
 - Wisconsin, which completely re-opened immediately following the state's Supreme Court's May 13th ruling to invalidate the Governor's stay home orders, is providing an inconclusive picture thus far:
 - the new infection rate is up since the ruling, however,
 - test volume has more than doubled in that time and the test-positive rate declined and is among the lowest in the country, and
 - hospitalizations from the virus have stayed on the same trend line following the ruling that was in place before the ruling

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 87.8% of the 6 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 29

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	1,793,530	(1)	5,418	(3)	104,542	(1)	5.8%	(14)	315.8	(9)	1.2%	(12)	50,814	(10)	64.1	(5)
Austria	16,655	(29)	1,849	(23)	668	(26)	4.0%	(20)	74.2	(18)	0.2%	(28)	48,246	(11)	3.5	(26)
Belgium	58,061	(19)	5,010	(5)	9,430	(7)	16.2%	(1)	813.6	(1)	0.3%	(21)	72,237	(3)	19.1	(15)
Brazil	468,338	(2)	2,203	(18)	27,944	(5)	6.0%	(13)	131.5	(14)	5.2%	(2)	4,378	(25)	92.4	(3)
Canada	89,418	(14)	2,369	(16)	6,979	(11)	7.8%	(10)	184.9	(12)	1.1%	(13)	42,332	(14)	26.3	(10)
Chile	90,638	(13)	4,741	(6)	944	(24)	1.0%	(28)	49.4	(21)	5.6%	(1)	28,610	(16)	215.1	(1)
China	82,995	(15)	58	(30)	4,634	(14)	5.6%	(15)	3.2	(30)	0.0%	(30)	N/A		0.0	(30)
Ecuador	38,571	(21)	2,186	(19)	3,334	(19)	8.6%	(9)	189.0	(11)	1.0%	(14)	6,460	(24)	22.2	(14)
France	186,835	(7)	2,862	(13)	28,714	(4)	15.4%	(2)	439.9	(5)	0.5%	(18)	21,217	(20)	10.1	(20)
Germany	183,019	(8)	2,184	(20)	8,594	(9)	4.7%	(18)	102.6	(16)	0.3%	(23)	47,194	(12)	5.6	(23)
India	173,491	(9)	126	(29)	4,980	(13)	2.9%	(21)	3.6	(29)	4.6%	(3)	2,527	(26)	5.0	(24)
Iran	146,668	(12)	1,746	(24)	7,677	(10)	5.2%	(16)	91.4	(17)	1.6%	(10)	10,687	(23)	25.5	(11)
Ireland	24,876	(26)	5,038	(4)	1,645	(21)	6.6%	(11)	333.1	(8)	0.2%	(27)	66,047	(5)	10.7	(18)
Israel	16,987	(27)	1,963	(21)	284	(28)	1.7%	(26)	32.8	(22)	0.3%	(22)	61,463	(7)	4.9	(25)
Italy	232,248	(6)	3,841	(9)	33,229	(3)	14.3%	(3)	549.6	(4)	0.2%	(24)	62,102	(6)	8.5	(22)
Japan	16,719	(28)	132	(28)	874	(25)	5.2%	(17)	6.9	(25)	0.2%	(25)	2,251	(28)	0.2	(29)
Mexico	81,400	(17)	631	(25)	9,044	(8)	11.1%	(7)	70.1	(19)	4.3%	(5)	1,901	(29)	24.2	(13)
Netherlands	46,126	(20)	2,692	(14)	5,931	(12)	12.9%	(5)	346.1	(7)	0.4%	(19)	20,328	(21)	10.3	(19)
Pakistan	64,028	(18)	290	(26)	1,317	(23)	2.1%	(25)	6.0	(26)	3.2%	(6)	2,359	(27)	8.6	(21)
Peru	148,285	(11)	4,497	(7)	4,230	(18)	2.9%	(22)	128.3	(15)	4.3%	(4)	29,263	(15)	158.5	(2)
Portugal	31,946	(24)	3,133	(12)	1,383	(22)	4.3%	(19)	135.6	(13)	0.8%	(16)	78,030	(1)	24.5	(12)
Russia	387,623	(3)	2,585	(15)	4,374	(16)	1.1%	(27)	29.2	(23)	2.4%	(8)	68,527	(4)	58.3	(6)
Saudi Arabia	81,766	(16)	2,349	(17)	458	(27)	0.6%	(29)	13.2	(24)	2.4%	(7)	17,265	(22)	57.6	(7)
Singapore	33,860	(23)	5,788	(2)	23	(30)	0.1%	(30)	3.9	(28)	1.4%	(11)	22,652	(19)	83.9	(4)
South Korea	11,402	(30)	222	(27)	269	(29)	2.4%	(24)	5.2	(27)	0.4%	(20)	57,249	(9)	0.7	(28)
Spain	285,644	(4)	6,109	(1)	27,121	(6)	9.5%	(8)	580.1	(2)	0.2%	(26)	76,071	(2)	11.4	(17)
Sweden	36,476	(22)	3,612	(10)	4,350	(17)	11.9%	(6)	430.7	(6)	1.7%	(9)	23,658	(17)	51.9	(8)
Switzerland	30,828	(25)	3,600	(11)	1,919	(20)	6.2%	(12)	224.1	(10)	0.1%	(29)	45,172	(13)	2.0	(27)
Turkey	162,120	(10)	1,922	(22)	4,489	(15)	2.8%	(23)	53.2	(20)	0.7%	(17)	23,314	(18)	12.9	(16)
UK	271,222	(5)	3,995	(8)	38,161	(2)	14.1%	(4)	562.1	(3)	0.9%	(15)	59,593	(8)	35.8	(9)

Note: China does not report test volumes

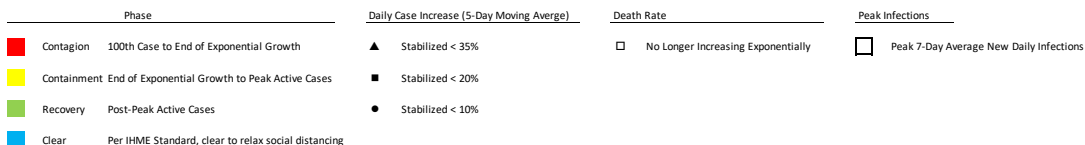
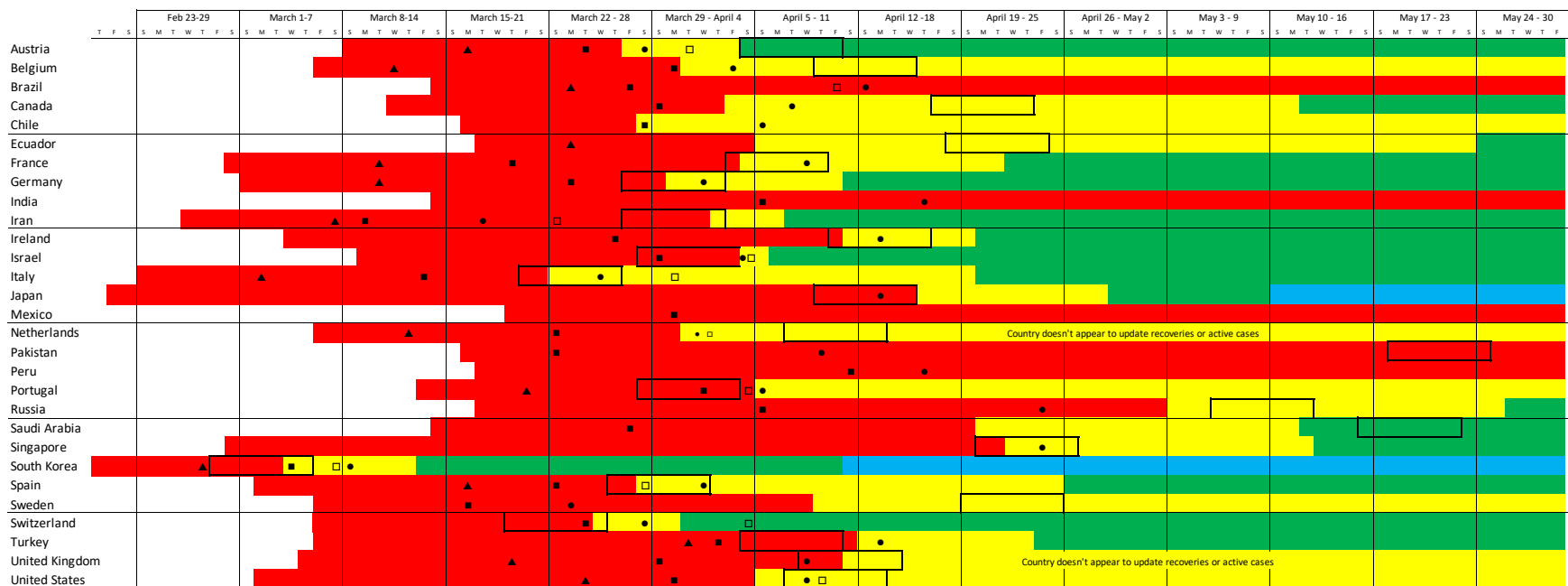
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VIRUS PROGRESSION BY COUNTRY

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 87.8% of all cases worldwide.

Rank	Country	29-May	Rank	Country	6-May	Rank	Country	27-Apr
1	USA	1,793,530	1	USA	1,263,092	1	USA	1,010,356
2	Brazil	468,338	2	Spain	253,682	2	Spain	229,422
3	Russia	387,623	3	Italy	214,457	3	Italy	199,414
4	Spain	285,644	4	UK	201,101	4	France	165,842
5	UK	271,222	5	France	174,191	5	Germany	158,758
6	Italy	232,248	6	Germany	168,162	6	UK	157,149
7	France	186,835	7	Russia	165,929	7	Turkey	112,261
8	Germany	183,019	8	Turkey	131,744	8	Iran	91,472
9	India	173,491	9	Brazil	126,611	9	Russia	87,147
10	Turkey	162,120	10	Iran	101,650	10	China	82,830
11	Peru	148,285	11	China	82,883	11	Brazil	66,501
12	Iran	146,668	12	Canada	63,496	12	Canada	48,500
13	Chile	90,638	13	Peru	54,817	13	Belgium	46,687
14	Canada	89,418	14	India	52,987	14	Netherlands	38,245
15	China	82,995	15	Belgium	50,781	15	India	29,451
16	Saudi Arabia	81,766	16	Netherlands	41,319	16	Switzerland	29,164
17	Mexico	81,400	17	Saudi Arabia	31,938	17	Peru	28,669
18	Pakistan	64,028	18	Switzerland	30,060	18	Portugal	24,070
19	Belgium	58,061	19	Ecuador	29,420	19	Ecuador	23,240
21	Netherlands	46,126	20	Portugal	26,182	20	Ireland	19,648
24	Ecuador	38,571	21	Mexico	26,025	21	Sweden	18,926
25	Sweden	36,476	22	Sweden	23,918	22	Saudi Arabia	18,811
26	Singapore	33,860	23	Pakistan	23,214	23	Israel	15,555
28	Portugal	31,946	24	Chile	23,048	24	Austria	15,274
29	Switzerland	30,828	25	Ireland	22,248	25	Mexico	14,677
34	Ireland	24,876	26	Singapore	20,198	26	Singapore	14,423
39	Israel	16,987	29	Israel	16,310	27	Pakistan	13,915
40	Japan	16,719	31	Austria	15,684	28	Chile	13,813
41	Austria	16,655	32	Japan	15,253	29	Japan	13,614
48	S. Korea	11,402	38	S. Korea	10,806	35	South Korea	10,738
	Others	734,643		Others	356,176		Others	263,943
	World	6,026,418		World	3,817,382		World	3,062,515

30 countries' share

87.8%

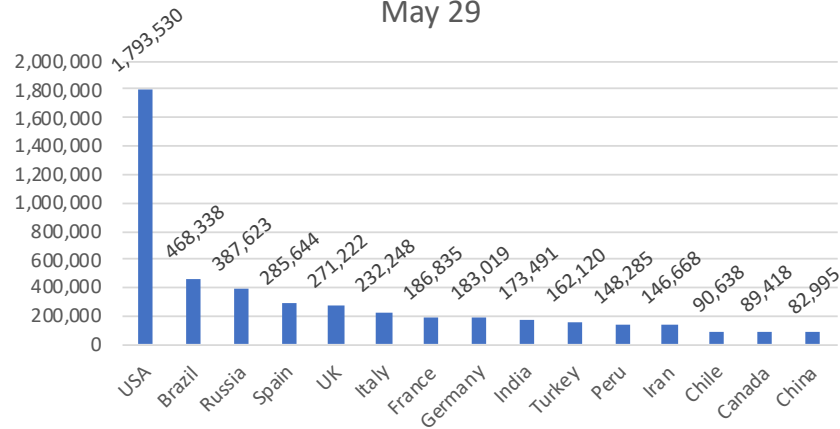
90.7%

91.4%

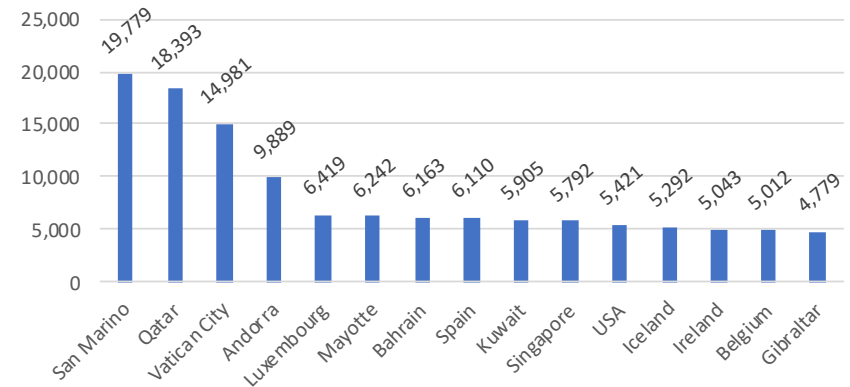
Country-by-Country Cases & Cases Per Capita

"Strategic Guidance in an Era of Unprecedented Change"

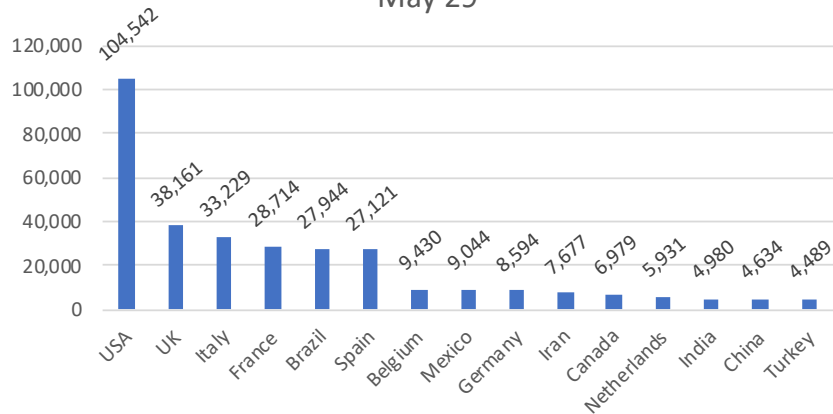
Countries Ranked By Total Cases
May 29



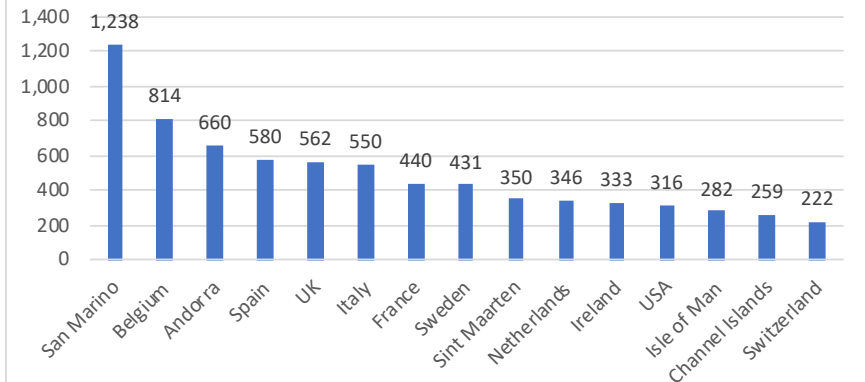
Countries Ranked By Total Cases / 1 Million
May 29



Countries Ranked By Deaths
May 29



Countries Ranked By Deaths / 1 Million
May 29



UNITED STATES & STATE-BY-STATE INFORMATION

State-by-State Comparative Statistics

“Strategic Guidance in an Era of Unprecedented Change”

As of May 29

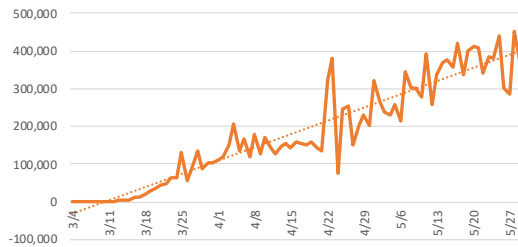
State	Total Cases	Rank	Cases per 1M Population	Rank2	Deaths	Rank3	Death Rate	Rank4	Deaths per 1 Million Population	Rank5	5-day Moving Average Case Growth Rate	Rank6	Tests per 1M Population Past 7 days	Rank7	New Daily Cases Per 1M Population (5-Day M.A.)	Rank8
Alabama	17,031	(25)	3,473.5	(23)	610	(25)	3.6%	(34)	124.4	(25)	3.3%	(1)	907	(32)	97.9	(11)
Alaska	430	(51)	587.8	(49)	10	(51)	2.3%	(44)	13.7	(50)	1.1%	(35)	1,561	(10)	5.1	(49)
Arizona	18,465	(23)	2,536.8	(36)	885	(21)	4.8%	(20)	121.6	(26)	2.5%	(7)	664	(43)	56.1	(25)
Arkansas	6,777	(38)	2,245.7	(37)	132	(40)	1.9%	(46)	43.7	(44)	2.7%	(5)	792	(38)	55.1	(26)
California	106,744	(4)	2,701.5	(33)	4,137	(7)	3.9%	(29)	104.7	(29)	2.5%	(8)	1,333	(16)	58.4	(22)
Colorado	25,613	(18)	4,447.7	(19)	1,436	(16)	5.6%	(12)	249.4	(14)	1.2%	(34)	663	(44)	52.7	(29)
Connecticut	41,762	(13)	11,713.5	(6)	3,868	(8)	9.3%	(2)	1,084.9	(3)	0.6%	(46)	1,565	(9)	85.0	(14)
Delaware	9,236	(34)	9,484.8	(7)	356	(33)	3.9%	(30)	365.6	(12)	1.0%	(39)	1,254	(19)	103.7	(10)
District Of Columbia	8,538	(35)	12,097.8	(5)	460	(29)	5.4%	(13)	651.8	(6)	1.0%	(36)	175	(50)	130.6	(4)
Florida	54,497	(9)	2,537.4	(35)	2,413	(11)	4.4%	(24)	112.3	(28)	1.4%	(27)	983	(29)	33.6	(39)
Georgia	45,863	(11)	4,319.6	(20)	1,984	(14)	4.3%	(27)	186.9	(16)	1.3%	(29)	310	(49)	58.9	(21)
Hawaii	649	(49)	458.4	(51)	17	(49)	2.6%	(42)	12.0	(51)	0.2%	(51)	488	(47)	0.7	(51)
Idaho	2,803	(43)	1,564.1	(44)	82	(43)	2.9%	(39)	45.8	(43)	1.3%	(30)	412	(48)	16.6	(46)
Illinois	117,455	(3)	9,269.0	(8)	5,270	(6)	4.5%	(23)	415.9	(10)	1.3%	(32)	1,743	(6)	135.4	(3)
Indiana	33,558	(16)	4,984.7	(16)	2,110	(13)	6.3%	(8)	313.4	(13)	1.4%	(28)	852	(35)	66.8	(18)
Iowa	18,956	(22)	6,008.1	(12)	524	(27)	2.8%	(40)	166.1	(20)	1.9%	(17)	1,226	(24)	110.8	(8)
Kansas	9,764	(31)	3,351.5	(24)	216	(37)	2.2%	(45)	74.1	(38)	1.5%	(23)	908	(31)	36.3	(37)
Kentucky	9,464	(32)	2,118.3	(41)	418	(30)	4.4%	(25)	93.6	(32)	2.0%	(13)	1,760	(5)	33.2	(40)
Louisiana	38,809	(14)	8,348.2	(10)	2,766	(9)	7.1%	(6)	595.0	(7)	0.9%	(41)	1,328	(17)	57.9	(23)
Maine	2,226	(45)	1,656.0	(42)	85	(42)	3.8%	(31)	63.2	(40)	1.6%	(19)	883	(34)	29.5	(42)
Maryland	90,988	(10)	8,433.8	(9)	2,466	(10)	4.8%	(18)	407.9	(11)	1.9%	(16)	1,338	(15)	155.1	(1)
Massachusetts	95,512	(5)	13,743.7	(4)	6,718	(3)	7.0%	(7)	966.7	(4)	0.6%	(47)	1,235	(23)	95.0	(13)
Michigan	56,621	(8)	5,669.6	(14)	5,406	(5)	9.5%	(1)	541.3	(8)	0.7%	(44)	713	(41)	38.7	(34)
Minnesota	23,531	(19)	4,172.4	(21)	1,006	(19)	4.3%	(28)	178.4	(18)	2.7%	(6)	1,340	(14)	114.6	(7)
Mississippi	14,790	(26)	4,969.5	(18)	710	(23)	4.8%	(19)	238.6	(15)	2.2%	(10)	1,360	(12)	104.0	(9)
Missouri	13,147	(29)	2,142.1	(40)	741	(22)	5.6%	(11)	120.7	(27)	1.4%	(26)	114	(51)	30.1	(41)
Montana	493	(50)	461.3	(50)	17	(49)	3.4%	(35)	15.9	(49)	0.6%	(48)	892	(33)	1.9	(50)
Nebraska	13,654	(28)	7,058.5	(11)	170	(38)	1.2%	(49)	87.9	(34)	2.4%	(9)	1,210	(26)	147.1	(2)
Nevada	8,350	(36)	2,710.9	(32)	415	(31)	5.0%	(17)	134.7	(24)	1.5%	(24)	1,599	(7)	44.0	(32)
New Hampshire	4,492	(41)	3,303.6	(26)	238	(36)	5.3%	(14)	175.0	(19)	1.6%	(21)	1,236	(22)	50.2	(30)
New Jersey	160,391	(2)	18,057.6	(2)	11,536	(2)	7.2%	(5)	1,298.8	(2)	0.6%	(45)	2,591	(2)	97.2	(12)
New Mexico	7,493	(37)	3,573.5	(22)	344	(34)	4.6%	(22)	164.1	(21)	1.5%	(22)	2,097	(4)	59.1	(20)
New York	377,714	(1)	19,416.2	(1)	29,751	(1)	7.9%	(3)	1,529.3	(1)	0.3%	(50)	2,521	(3)	71.8	(17)
North Carolina	26,849	(17)	2,560.0	(34)	919	(20)	3.4%	(36)	87.6	(35)	2.8%	(4)	1,199	(27)	64.5	(19)
North Dakota	2,520	(44)	3,306.8	(25)	59	(46)	2.3%	(43)	77.4	(37)	0.8%	(42)	1,242	(20)	38.1	(35)
Ohio	34,625	(15)	2,962.2	(29)	2,137	(12)	6.2%	(9)	182.8	(17)	1.6%	(20)	759	(39)	46.0	(31)
Oklahoma	6,338	(39)	1,601.7	(43)	329	(35)	5.2%	(15)	83.1	(36)	1.0%	(38)	1,236	(21)	17.7	(45)
Oregon	4,131	(42)	979.4	(48)	151	(39)	3.7%	(33)	35.8	(46)	1.0%	(37)	503	(46)	9.0	(47)
Pennsylvania	75,078	(6)	5,864.6	(13)	5,493	(4)	7.3%	(4)	429.1	(9)	0.9%	(40)	662	(45)	53.0	(28)
Rhode Island	14,635	(27)	13,814.9	(3)	693	(24)	4.7%	(21)	654.2	(5)	0.8%	(43)	2,591	(1)	121.2	(6)
South Carolina	11,131	(30)	2,161.9	(38)	483	(28)	4.3%	(26)	93.8	(31)	2.0%	(15)	1,061	(28)	41.4	(33)
South Dakota	4,866	(40)	5,500.4	(15)	59	(46)	1.2%	(50)	66.7	(39)	1.3%	(31)	1,346	(13)	82.4	(15)
Tennessee	22,085	(21)	3,232.0	(27)	360	(32)	1.6%	(48)	52.7	(42)	1.9%	(18)	1,274	(18)	56.3	(24)
Texas	62,126	(7)	2,142.6	(39)	1,654	(15)	2.7%	(41)	57.0	(41)	2.0%	(12)	849	(36)	37.0	(36)
Utah	9,264	(33)	2,889.6	(31)	107	(41)	1.2%	(51)	33.4	(47)	2.0%	(14)	848	(37)	53.8	(27)
Vermont	975	(47)	1,562.5	(45)	55	(47)	5.6%	(10)	88.1	(33)	0.4%	(49)	1,408	(11)	5.3	(48)
Virginia	42,533	(12)	4,983.1	(17)	1,358	(17)	3.2%	(38)	159.1	(22)	3.3%	(2)	1,225	(25)	126.9	(5)
Washington	22,097	(20)	2,901.8	(30)	1,116	(18)	5.1%	(16)	146.6	(23)	1.4%	(25)	753	(40)	36.0	(38)
West Virginia	1,972	(46)	1,103.4	(47)	74	(44)	3.8%	(32)	41.4	(45)	2.2%	(11)	683	(42)	21.3	(44)
Wisconsin	17,707	(24)	3,041.2	(28)	568	(26)	3.2%	(37)	97.6	(30)	3.0%	(3)	1,575	(8)	81.2	(16)
Wyoming	891	(48)	1,539.5	(46)	15	(50)	1.7%	(47)	25.9	(48)	1.2%	(33)	949	(30)	21.7	(43)
United States	1,793,530		5,418.5		104,542		5.8%		315.8		1.2%		1,164		64.1	

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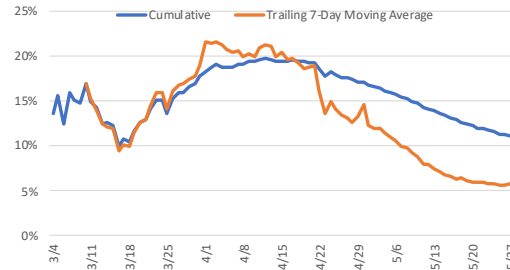
With significantly increased testing, the US is now meeting the WHO standard of <10% test-positives. This suggests that asymptomatic cases are being captured and that we have a better view of true infection rates. Further, new daily infections continue to decline; the death rate seems to have stabilized.

New Daily Tests - US



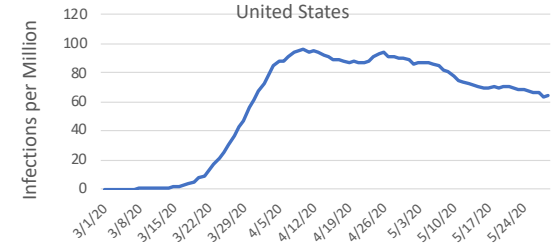
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Test-Positive Rate



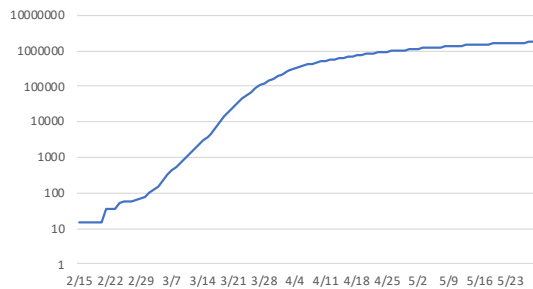
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New Daily Infections Per 1M
Trailing 7-Day Moving Average
United States



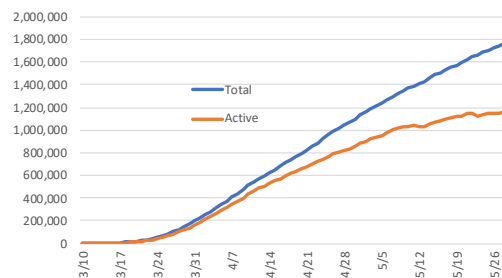
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Total Cases Log Scale - US



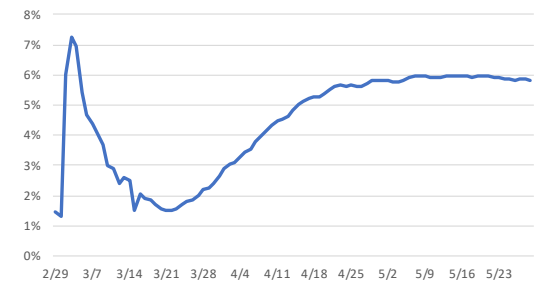
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Cases - US



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Deaths Per Case - US

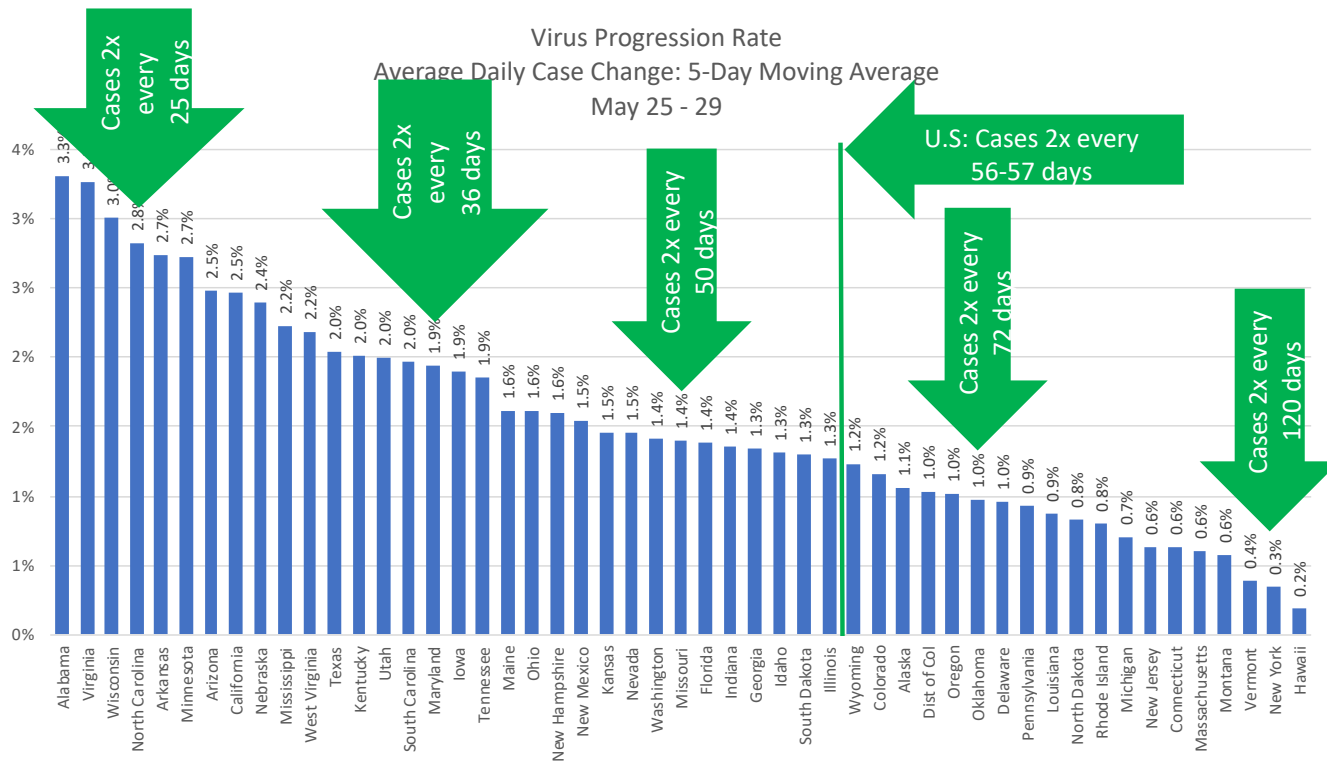


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State-by-State Average Daily Case Growth

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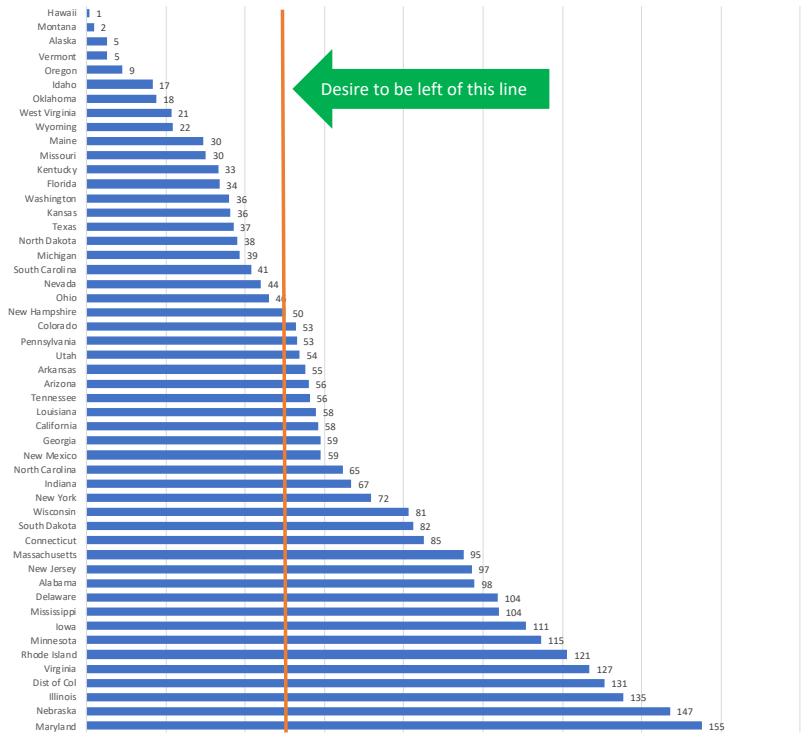
Just 1 month ago, cases in every state were doubling every 1 – 3 weeks.
Now, they would take from 21 days to nearly 3 years to double



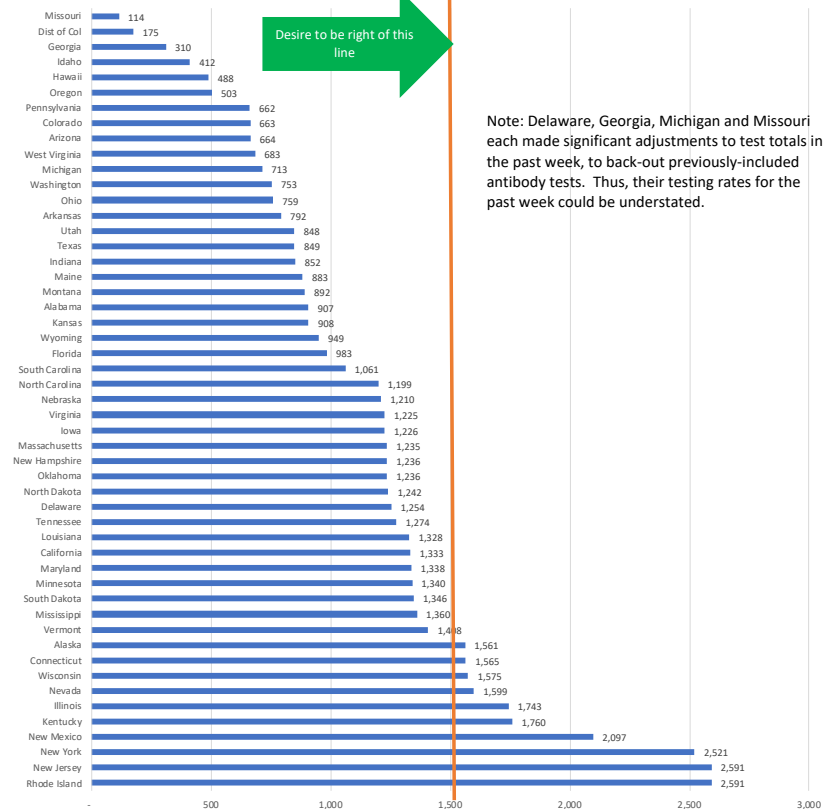
State-by-State New Daily Infections & Tests Per Capita

"Strategic Guidance in an Era of Unprecedented Change"

New Daily Infections Per 1 Million Population
By State
May 23 - 29



Daily Tests Per 1 Million Population
By State
May 23 - 29

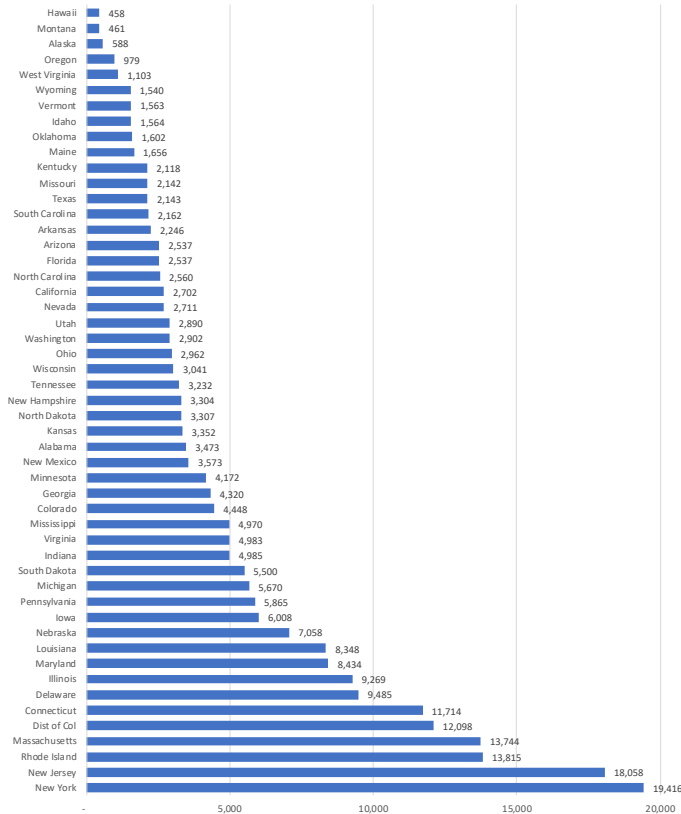


Note: Delaware, Georgia, Michigan and Missouri each made significant adjustments to test totals in the past week, to back-out previously-included antibody tests. Thus, their testing rates for the past week could be understated.

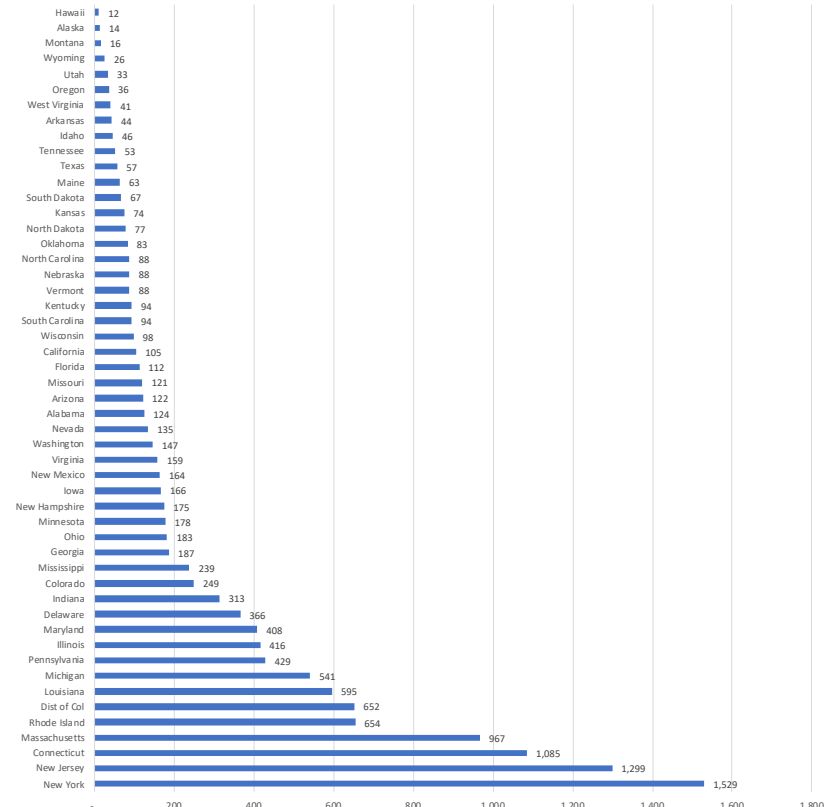
State-by-State Cases & Deaths Per Capita

"Strategic Guidance in an Era of Unprecedented Change"

Total Cases Per 1 Million Population
By State
As of May 29



Deaths Per 1 Million Population
By State
As of May 29



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 6 states met this guideline for the past week. Of these 6, 4 are close and the remaining 2 - Missouri and Georgia – made significant adjustments to their test total this week, to remove serology tests from the counts



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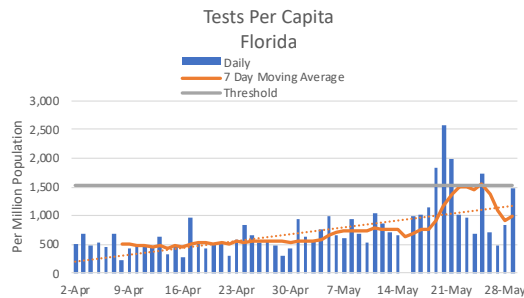
MONITORING THE IMPACT OF RELAXING RESTRICTIONS

“Strategic Guidance in an Era of Unprecedented Change”

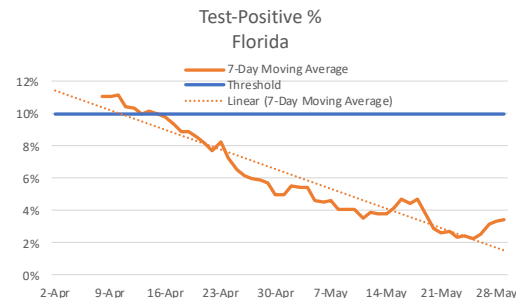
- With several states re-opening, we are monitoring testing and infection rates to determine if, when and how much impact relaxation has on renewed spread of the virus. Here, we focus on Florida, Georgia and Wisconsin
- Florida:
 - Testing per capita is near average for all U.S. states – Note: it had exceeded the “gold” standard of 1,520 per 1 million population per day as recently as 4 days ago
 - Test-positive rates are among the lowest in the country, at 3.4%
 - Current new daily infection rate is 13th lowest in the country (30.7 per day per 1 million for last 7 days)
 - *Conclusion: re-opening appears to be under control thus far*
- Georgia:
 - One of the last states to shut-down and first to re-open
 - Testing and test-positive rates are impacted by 74,000 serology tests deducted from test count on May 27; positive test count did not appear to be correspondingly adjusted
 - Prior to this adjustment, test-positive rate was 3.7%
 - Current new daily infection rate (per million, trailing 7-day moving average) is 61.9; it was 61.2 on April 30 – right after the state re-opened
 - *Conclusion: re-opening appears to be under control thus far*
- Wisconsin
 - On May 13, the state’s Supreme Court ruled the Governor’s executive orders to be unconstitutional – this ruling ended all restrictions in the state
 - Testing rates have more than doubled since the ruling; rate now exceeds the “gold” standard of 1,520 per 1 million population per day and are the 8th highest among the states
 - Test-positive rate has fallen to 5.2% v. 6.4% at time of ruling
 - Current new daily infection rate (per million, trailing 7-day moving average) is 74.8; it was 50.0 at time of the ruling
 - Hospitalizations from the virus, however, are trending on the same line as it was on prior to the ruling
 - *Conclusion: still too early to judge, data are inconclusive (increased infection likely at least partially due to increased testing; hospitalization rate suggests no difference pre- and post-ruling)*

State-By-State Impact of Relaxing Restrictions

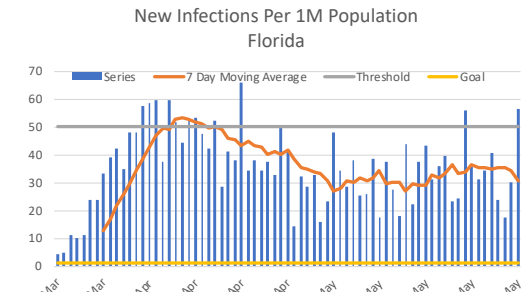
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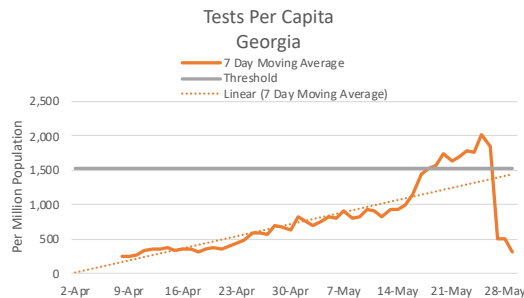
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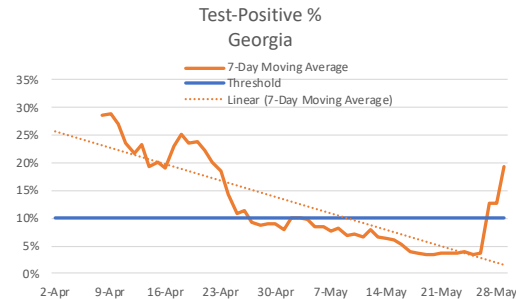
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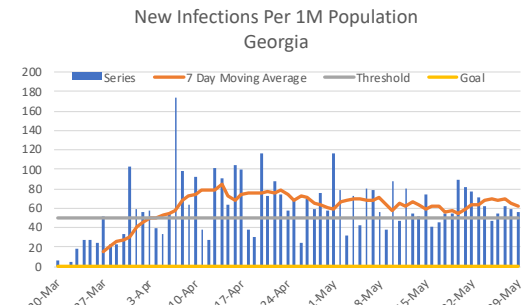
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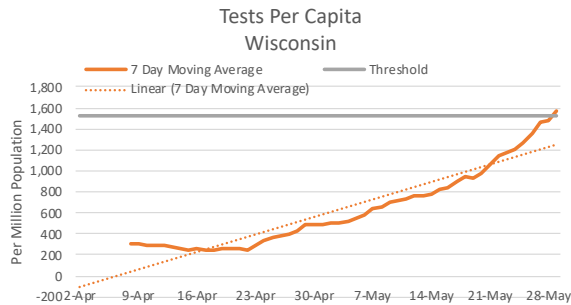
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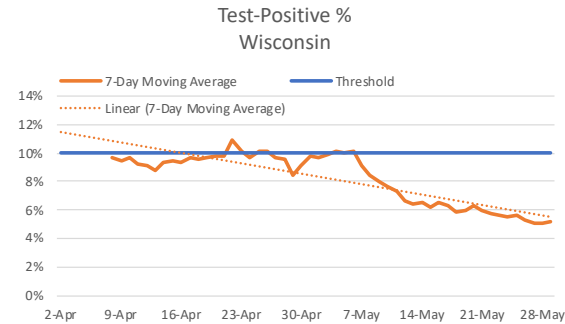
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Wisconsin's Experience

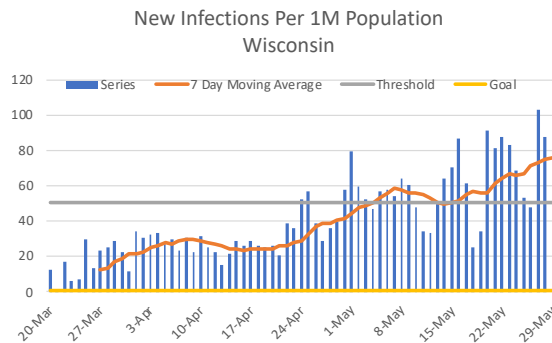
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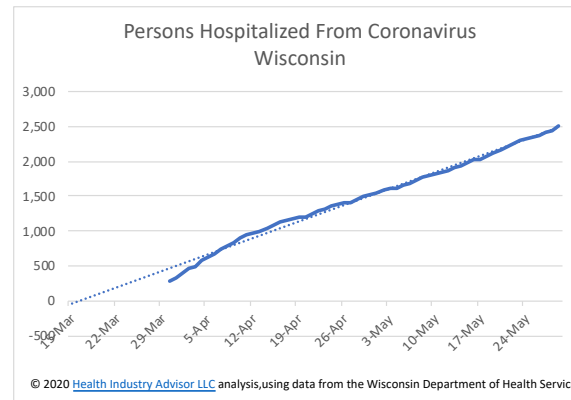
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VIRUS PROGRESSION: ROADMAP TO RECOVERY

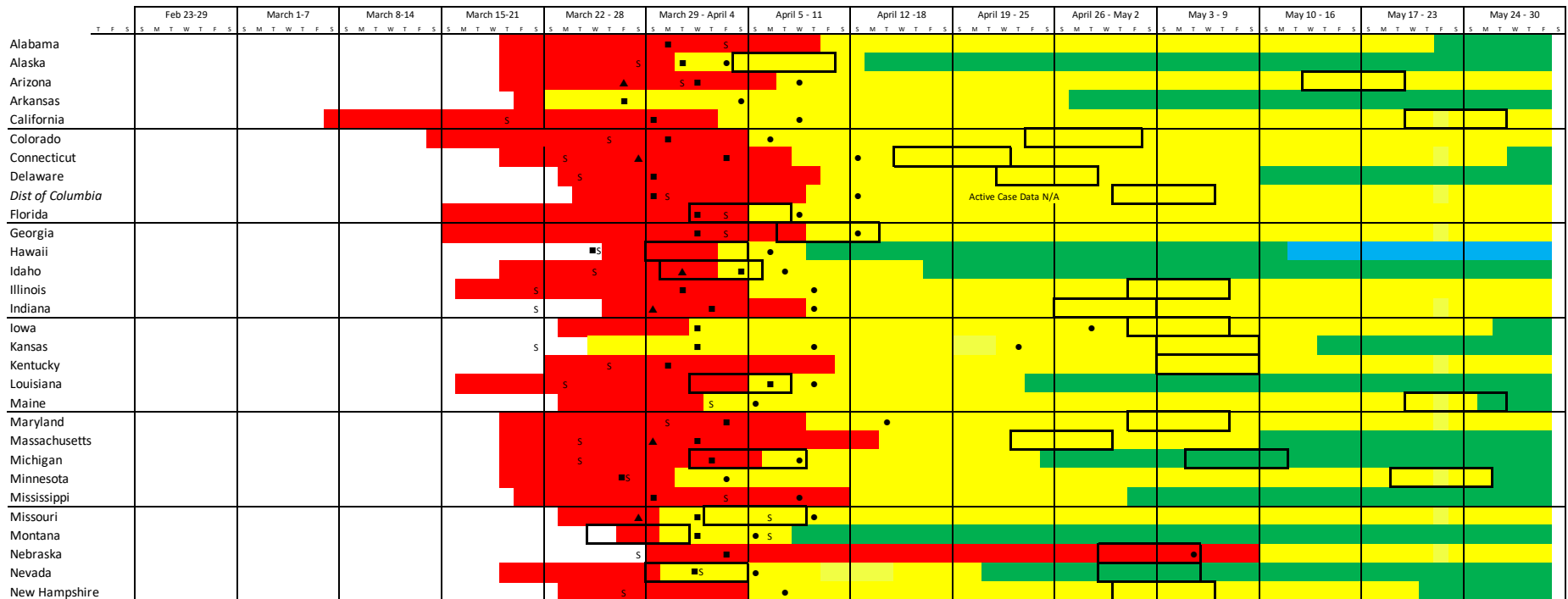
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The graphic on the following two pages illustrates when the state first recorded 100 total cases (start of the "contagion" phase); when growth stopped following an exponential pattern (start of the "containment" phase); and, when peak total cases were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

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

State-by-State Virus Progression – 1 of 2

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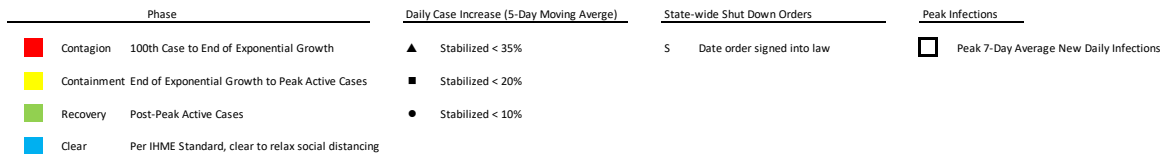
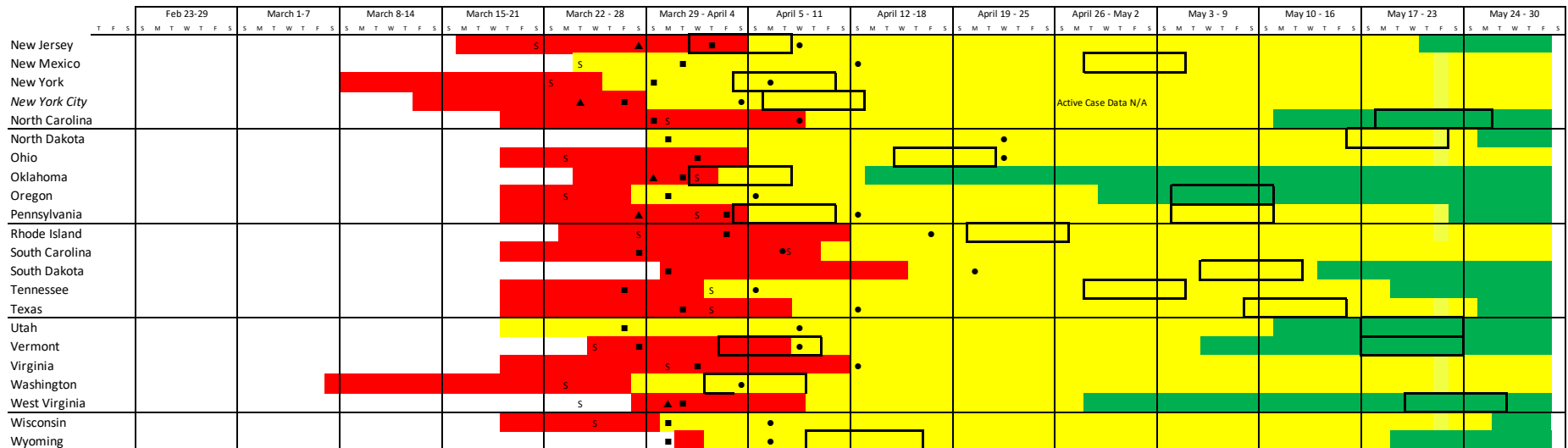


Legend on following page

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State-by-State Virus Progression – 2 of 2

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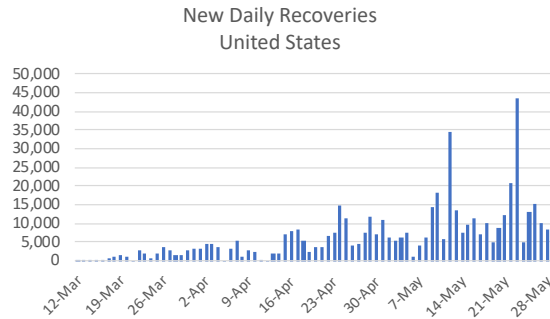


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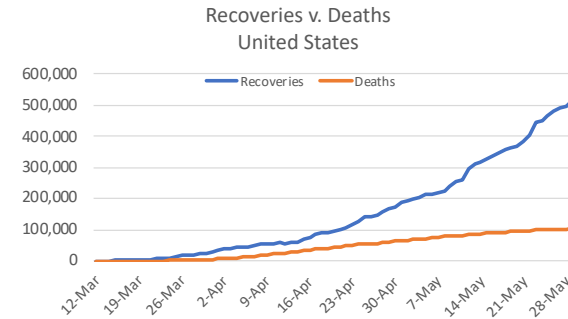
UNDER-REPORTED RECOVERIES? POSSIBLE LAG IN STATE REPORTING

United States Recoveries

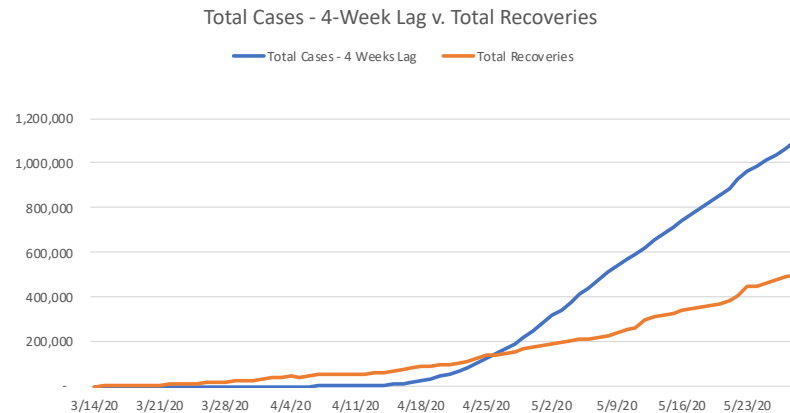
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Which states seem to be lagging in reporting?

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

Comparing the reported recoveries to Total Cases 4 weeks ago *, this shortfall is ~385-500k

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

State	Recoveries	Expected Recoveries	
		Low	High
Alabama	9,355	5,835	6,565
Alaska	366	291	328
Arizona	70	6,370	7,166
Arkansas	4,946	2,657	2,989
California	23,298	41,420	46,598
Colorado	1,722	12,614	14,191
Connecticut	7,511	23,011	25,888
Delaware	5,103	3,934	4,426
District Of Columbia	1,080	3,726	4,192
Florida	8,662	27,782	31,255
Georgia	697	21,997	24,746
Hawaii	605	495	557
Idaho	2,225	1,628	1,832
Illinois	3,615	44,844	50,450
Indiana	2,778	14,904	16,767
Iowa	10,853	6,307	7,096
Kansas	4,266	3,629	4,082
Kentucky	3,181	3,903	4,391
Louisiana	28,700	22,969	25,840
Maine	1,458	898	1,011
Maryland	3,571	18,778	21,125
Massachusetts	46,354	51,449	57,880
Michigan	33,168	33,885	38,120
Minnesota	16,930	4,584	5,157
Mississippi	9,401	5,770	6,491
Missouri	3,047	6,414	7,216

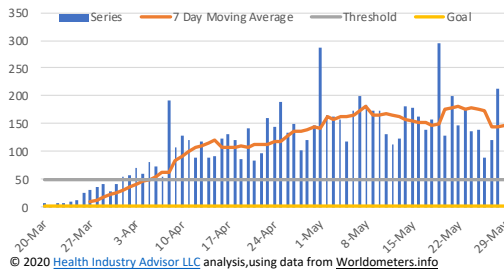
State	Recoveries	Expected Recoveries	
		Low	High
Montana	448	362	408
Nebraska	349	3,870	4,354
Nevada	5,852	4,182	4,704
New Hampshire	2,802	1,848	2,079
New Jersey	15,856	96,952	109,071
New Mexico	2,728	2,810	3,162
New York	65,917	252,178	283,700
North Carolina	14,954	8,857	9,964
North Dakota	1,882	886	996
Ohio	6,036	14,994	16,869
Oklahoma	5,340	2,998	3,373
Oregon	1,894	2,063	2,321
Pennsylvania	45,978	39,714	44,678
Rhode Island	1,084	7,170	8,066
South Carolina	6,043	5,006	5,632
South Dakota	3,744	2,020	2,273
Tennessee	13,916	9,513	10,702
Texas	40,137	23,914	26,904
Utah	5,346	3,862	4,345
Vermont	859	703	791
Virginia	5,648	13,521	15,211
Washington	6,137	12,129	13,645
West Virginia	1,274	921	1,036
Wisconsin	10,384	5,851	6,583
Wyoming	642	453	509
United States	519,569	904,824	1,017,927

STATES WITH THE HIGHEST NEW DAILY INFECTION RATES

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

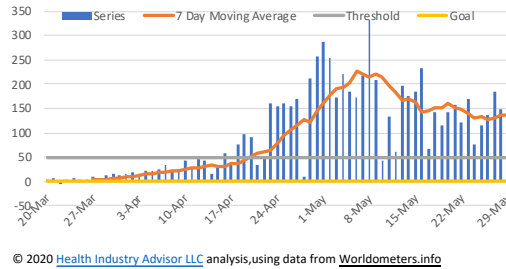
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New Infections Per 1M Population
Maryland



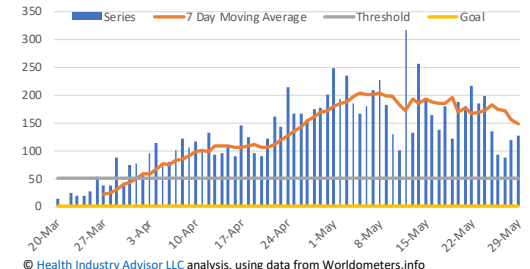
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New Infections Per 1M Population
Nebraska



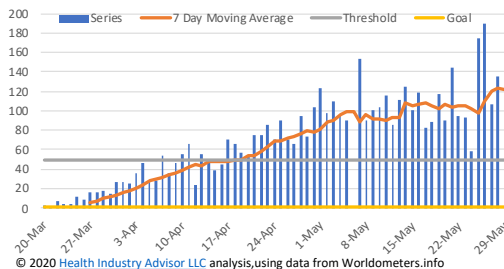
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New Infections Per 1M Population
Illinois



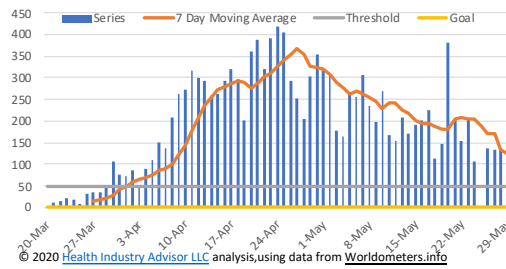
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New Infections Per 1M Population
Virginia



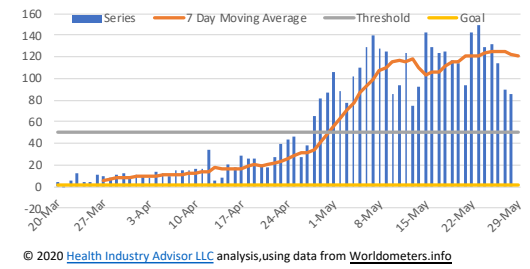
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New Infections Per 1M Population
Rhode Island



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New Infections Per 1M Population
Minnesota



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STATES WITH INCREASING NEW DAILY INFECTION RATES – COUNTY-SPECIFIC INFORMATION FOR LARGEST COUNTIES

Case and Death Information By County For States With Increasing Infection Rates

"Strategic Guidance in an Era of Unprecedented Change"

- On the following pages, case and death information¹ is presented by county/municipality in the United States
 - New York case and death information are reported on a combined basis for Bronx, Kings, New York, Queens and Richmond counties
 - Cities that are not otherwise part of a county are listed separately
- Counties are grouped according to the 2013 Rural/Urban classification from Center for Disease Control, "[NCHS Urban-Rural Classification Scheme for Counties](#)"³:
 - **Large Central Metro Areas** – Located in MSA of 1 million population that: 1) contain the entire population of the largest principal city of the MSA, or 2) are completely contained within the largest principal city of the MSA, or 3) contain at least 250,000 residents of any principal city in the MSA
 - **Large Fringe Metro Areas** – Located in in MSA of 1 million or more population
 - **Medium Metro Areas** – Located in in MSA of 250,000-999,999 population
 - **Small Metro Areas** – Located in MSAs of less than 250,000 population
 - **Micropolitan Areas** – Located in micropolitan statistical area
 - **Non-Core Areas** - not in micropolitan statistical areas data access website
- Population information is the 2019 official estimate from the US Census Bureau²

1. Data from [The New York Times](#), based on reports from state and local health agencies. Accessed May 10-20, 2020

2. "Annual Estimates of the Resident Population for Counties in the United States: April 1, 2010 to July 1, 2019 (CO-EST2019-ANNRES)", Source: U.S. Census Bureau, Population Division, Release Date: March 2020. Accessed May 12, 2020

3. Urban-Rural Classification of counties from CDC's "[NCHS Urban-Rural Classification Scheme for Counties](#)". Accessed May 19, 2020

Alabama As of May 28

FIPS	County	State	2013 CDC Urban / Rural Classification	Total Cases	Cases Per 1M	Daily Inf Rate (Last 7- Day MA)	Peak Daily Inf Rate (Trailing 7- Day MA)	Highest Occurred in Past 3 Days?	Total Deaths	Deaths Per 1M	Deaths / Case
1073	Jefferson	Alabama	1	1,712	2,661	54	91		100	155	5.8%
1007	Bibb	Alabama	2	71	3,513	113	134	yes	1	49	1.4%
1009	Blount	Alabama	2	58	1,013	25	32		1	17	1.7%
1021	Chilton	Alabama	2	97	2,222	43	56		1	23	1.0%
1117	Shelby	Alabama	2	484	2,275	44	96		19	89	3.9%
1115	St. Clair	Alabama	2	116	1,336	30	44		1	12	0.9%
1127	Walker	Alabama	2	299	4,769	289	289	yes	1	16	0.3%
1001	Autauga	Alabama	3	205	3,722	145	161	yes	3	54	1.5%
1051	Elmore	Alabama	3	313	4,079	140	158	yes	7	91	2.2%
1083	Limestone	Alabama	3	87	934	25	48		-	-	0.0%
1085	Lowndes	Alabama	3	222	22,513	840	971	yes	10	1,014	4.5%
1089	Madison	Alabama	3	318	889	14	54		4	11	1.3%
1097	Mobile	Alabama	3	2,124	5,226	88	121		112	276	5.3%
1101	Montgomery	Alabama	3	1,541	7,127	323	323	yes	34	157	2.2%
1113	Russell	Alabama	3	159	2,787	103	103	yes	-	-	0.0%

2013 Rural/Urban classification from Center for Disease Control, "[NCHS Urban-Rural Classification Scheme for Counties](#)"

Arizona
As of May 28

FIPS	County	State	2013 CDC Urban / Rural Classification	Total Cases	Cases Per 1M	Daily Inf Rate (Last 7- Day MA)	Peak Daily Inf Rate (Trailing 7- Day MA)	Highest Occured in Past 3 Days?	Total Deaths	Deaths Per 1M	Deaths / Case
4013	Maricopa	Arizona	1	8,896	2,047	35	46		403	93	4.5%
4021	Pinal	Arizona	2	788	1,871	19	54		37	88	4.7%
4019	Pima	Arizona	3	2,167	2,135	31	52		186	183	8.6%
4003	Cochise	Arizona	4	67	554	19	21	yes	1	8	1.5%
4005	Coconino	Arizona	4	1,078	8,201	115	242		79	601	7.3%
4015	Mohave	Arizona	4	350	1,713	51	51	yes	42	206	12.0%
4025	Yavapai	Arizona	4	294	1,289	13	57		6	26	2.0%
4027	Yuma	Arizona	4	822	4,045	244	244	yes	11	54	1.3%

2013 Rural/Urban classification from Center for Disease Control, ["NCHS Urban-Rural Classification Scheme for Counties"](#)

California
As of May 28

FIPS	County	State	2013 CDC Urban / Rural Classification	Total Cases	Cases Per 1M	Daily Inf Rate (Last 7- Day MA)	Peak Daily Inf Rate (Trailing 7- Day MA)	Highest Occurred in Past 3 Days?	Total Deaths	Deaths Per 1M	Deaths / Case
6001	Alameda	California	1	3,118	1,903	43	49		97	59	3.1%
6037	Los Angeles	California	1	49,774	5,002	111	118	yes	2,241	225	4.5%
6059	Orange	California	1	5,849	1,860	45	47	yes	142	45	2.4%
6065	Riverside	California	1	7,341	3,037	59	65		320	132	4.4%
6067	Sacramento	California	1	1,348	885	8	39		57	37	4.2%
6073	San Diego	California	1	7,163	2,207	35	58		297	91	4.1%
6075	San Francisco	California	1	2,440	2,812	39	89		40	46	1.6%
6085	Santa Clara	California	1	2,701	1,413	14	83		142	74	5.3%
6013	Contra Costa	California	2	1,384	1,213	19	45		37	32	2.7%
6017	El Dorado	California	2	84	443	13	15		-	-	0.0%
6041	Marin	California	2	439	1,735	49	77		14	55	3.2%
6061	Placer	California	2	196	502	7	35		9	23	4.6%
6069	San Benito	California	2	85	1,388	44	51		2	33	2.4%
6071	San Bernardino	California	2	4,914	2,303	62	66	yes	190	89	3.9%
6081	San Mateo	California	2	2,045	2,678	57	98		82	107	4.0%
6113	Yolo	California	2	207	983	14	41		23	109	11.1%

2013 Rural/Urban classification from Center for Disease Control, ["NCHS Urban-Rural Classification Scheme for Counties"](#)

Mississippi As of May 28

FIPS	County	State	2013 CDC Urban / Rural Classification	Total Cases	Cases Per 1M	Daily Inf Rate (Last 7- Day MA)	Peak Daily Inf Rate (Trailing 7- Day MA)	Highest Occured in Past 3 Days?	Total Deaths	Deaths Per 1M	Deaths / Case
28009	Benton	Mississippi	2	15	1,836	35	70	yes	-	-	0.0%
28033	DeSoto	Mississippi	2	503	2,782	66	103		6	33	1.2%
28093	Marshall	Mississippi	2	77	2,297	38	81		3	89	3.9%
28137	Tate	Mississippi	2	74	2,702	83	83		1	37	1.4%
28143	Tunica	Mississippi	2	53	5,400	116	233		3	306	5.7%
28029	Copiah	Mississippi	3	290	10,429	319	411		4	144	1.4%
28045	Hancock	Mississippi	3	87	1,856	18	91		11	235	12.6%
28047	Harrison	Mississippi	3	247	1,229	16	51		7	35	2.8%
28049	Hinds	Mississippi	3	959	4,213	84	102	yes	24	105	2.5%
28059	Jackson	Mississippi	3	303	2,139	12	86		13	92	4.3%
28089	Madison	Mississippi	3	694	6,674	154	265		22	212	3.2%
28121	Rankin	Mississippi	3	385	2,598	67	67		6	40	1.6%
28127	Simpson	Mississippi	3	95	3,622	87	136		-	-	0.0%
28163	Yazoo	Mississippi	3	227	10,010	208	277		4	176	1.8%
28035	Forrest	Mississippi	4	523	7,247	139	251		38	527	7.3%
28073	Lamar	Mississippi	4	231	3,725	48	113		5	81	2.2%
28111	Perry	Mississippi	4	50	4,230	145	157		3	254	6.0%

2013 Rural/Urban classification from Center for Disease Control, "[NCHS Urban-Rural Classification Scheme for Counties](#)"

“Strategic Guidance in an Era of Unprecedented Change”

South Carolina

As of May 28

FIPS	County	State	2013 CDC Urban / Rural Classification	Total Cases	Cases Per 1M	Daily Inf Rate (Last 7- Day MA)	Peak Daily Inf Rate (Trailing 7- Day MA)	Highest Occured in Past 3 Days?	Total Deaths	Deaths Per 1M	Deaths / Case
45023	Chester	South Carolina	2	59	1,845	80	80	yes	-	-	0.0%
45057	Lancaster	South Carolina	2	126	1,351	15	60		5	54	4.0%
45091	York	South Carolina	2	371	1,375	25	44		7	26	1.9%
45003	Aiken	South Carolina	3	189	1,131	24	31		7	42	3.7%
45007	Anderson	South Carolina	3	226	1,146	7	49		8	41	3.5%
45015	Berkeley	South Carolina	3	224	1,035	10	38		15	69	6.7%
45017	Calhoun	South Carolina	3	10	695	10	40		1	70	10.0%
45019	Charleston	South Carolina	3	578	1,463	20	99		12	30	2.1%
45035	Dorchester	South Carolina	3	150	947	27	39		3	19	2.0%
45037	Edgefield	South Carolina	3	51	2,100	29	100		2	82	3.9%
45039	Fairfield	South Carolina	3	163	7,395	71	363		14	635	8.6%
45045	Greenville	South Carolina	3	1,382	2,747	57	64		56	111	4.1%
45051	Horry	South Carolina	3	395	1,163	26	33	yes	24	71	6.1%
45055	Kershaw	South Carolina	3	317	4,870	79	305		14	215	4.4%
45059	Laurens	South Carolina	3	63	972	13	42		3	46	4.8%
45063	Lexington	South Carolina	3	589	2,016	31	57		33	113	5.6%
45077	Pickens	South Carolina	3	129	1,097	30	40	yes	3	26	2.3%
45079	Richland	South Carolina	3	1,432	3,733	48	111		66	172	4.6%
45081	Saluda	South Carolina	3	139	6,855	49	268		-	-	0.0%
45083	Spartanburg	South Carolina	3	534	1,748	53	53	yes	19	62	3.6%
45087	Union	South Carolina	3	35	1,301	21	74		-	-	0.0%

2013 Rural/Urban classification from Center for Disease Control, [“NCHS Urban-Rural Classification Scheme for Counties”](#)

Daily Infection Rates Large and Medium Metro Areas

"Strategic Guidance in an Era of Unprecedented Change"

Utah
As of May 28

FIPS	County	State	2013 CDC Urban / Rural Classification	Total Cases	Cases Per 1M	Daily Inf Rate (Last 7- Day MA)	Peak Daily Inf Rate (Trailing 7- Day MA)	Highest Occured in Past 3 Days?	Total Deaths	Deaths Per 1M	Deaths / Case
49035	Salt Lake	Utah	1	4,806	4,230	74	96		71	62	1.5%
49045	Tooele	Utah	2	122	1,758	37	51		-	-	0.0%
49003	Box Elder	Utah	3	26	478	3	24		1	18	3.8%
49011	Davis	Utah	3	435	1,247	16	58		2	6	0.5%
49023	Juab	Utah	3	10	876	-	63		-	-	0.0%
49029	Morgan	Utah	3	11	915	12	48		-	-	0.0%
49049	Utah	Utah	3	1,777	2,917	43	108		17	28	1.0%
49057	Weber	Utah	3	272	1,074	17	38		5	20	1.8%

2013 Rural/Urban classification from Center for Disease Control, "[NCHS Urban-Rural Classification Scheme for Counties](#)"

Daily Infection Rates Large Metro Areas With Highest Current New Infection Rates

"Strategic Guidance in an Era of Unprecedented Change"

Virginia
As of May 28

FIPS	County	State	2013 CDC Urban / Rural Classification	Total Cases	Cases Per 1M	Daily Inf Rate (Last 7- Day MA)	Peak Daily Inf Rate (Trailing 7- Day MA)	Highest Occurred in Past 3 Days?	Total Deaths	Deaths Per 1M	Deaths / Case
51510	Alexandria city	Virginia	1	1,887	11,897	234	300		44	277	2.3%
51013	Arlington	Virginia	1	2,039	8,685	168	228		109	464	5.3%
51760	Richmond city	Virginia	1	1,133	5,217	161	185		21	97	1.9%
51710	Norfolk city	Virginia	1	452	2,152	51	58		6	29	1.3%
51810	Virginia Beach city	Virginia	1	662	1,505	25	55		22	50	3.3%
51683	Manassas city	Virginia	2	971	23,500	788	954	yes	10	242	1.0%
51183	Sussex	Virginia	2	142	16,399	693	1,006		2	231	1.4%
51685	Manassas Park city	Virginia	2	281	16,312	481	622	yes	6	348	2.1%
51047	Culpeper	Virginia	2	656	13,063	370	683		5	100	0.8%
51153	Prince William	Virginia	2	5,157	11,126	300	326	yes	101	218	2.0%
51059	Fairfax	Virginia	2	10,503	9,228	241	241	yes	371	326	3.5%
51107	Loudoun	Virginia	2	2,318	5,730	218	245	yes	63	156	2.7%
51630	Fredericksburg city	Virginia	2	142	5,363	189	189	yes	-	-	0.0%
51177	Spotsylvania	Virginia	2	487	3,654	130	133	yes	6	45	1.2%
51179	Stafford	Virginia	2	672	4,599	129	140	yes	4	27	0.6%
51730	Petersburg city	Virginia	2	112	3,611	129	138		3	97	2.7%
51087	Henrico	Virginia	2	1,624	4,982	125	125	yes	131	402	8.1%

2013 Rural/Urban classification from Center for Disease Control, ["NCHS Urban-Rural Classification Scheme for Counties"](#)

Wisconsin As of May 28

FIPS	County	State	2013 CDC Urban / Rural Classification	Total Cases	Cases Per 1M	Daily Inf Rate (Last 7- Day MA)	Peak Daily Inf Rate (Trailing 7- Day MA)	Highest Occurred in Past 3 Days?	Total Deaths	Deaths Per 1M	Deaths / Case
55079	Milwaukee	Wisconsin	1	7,182	7,751	239	239	yes	285	308	4.0%
55059	Kenosha	Wisconsin	2	1,088	6,608	145	193		25	152	2.3%
55089	Ozaukee	Wisconsin	2	156	1,790	41	87		11	126	7.1%
55093	Pierce	Wisconsin	2	44	1,107	50	79		-	-	0.0%
55109	St. Croix	Wisconsin	2	74	834	27	42		-	-	0.0%
55131	Washington	Wisconsin	2	233	1,733	66	68		4	30	1.7%
55133	Waukesha	Wisconsin	2	650	1,634	44	63		28	70	4.3%
55009	Brown	Wisconsin	3	2,300	8,967	69	395		34	133	1.5%
55021	Columbia	Wisconsin	3	42	753	15	38		1	18	2.4%
55025	Dane	Wisconsin	3	686	1,297	28	71		27	51	3.9%
55031	Douglas	Wisconsin	3	19	455	14	21		-	-	0.0%
55045	Green	Wisconsin	3	60	1,644	43	78		-	-	0.0%
55049	Iowa	Wisconsin	3	14	594	18	18	yes	-	-	0.0%
55061	Kewaunee	Wisconsin	3	34	1,684	14	92		1	50	2.9%
55083	Oconto	Wisconsin	3	35	935	15	61		-	-	0.0%

2013 Rural/Urban classification from Center for Disease Control, ["NCHS Urban-Rural Classification Scheme for Counties"](#)