

Measure	Desired Change	Yesterday in the U.S.
No. of Tests	Increase	Up 5.0% (Cumulative)
Test-Positivity Rate	Decline	Down slightly @ 18.0% (v. 18.2%)
No. of Cases	Plateau	Up 3.8%
% of Deaths Per Case	Decline	Steady @ 5.6%
No. of Deaths / 1M Pop.	Plateau	Up to 163.9
Recoveries : Deaths	Increase (>1:1)	Up to 2.18 (v. 2.12)

Explanation of shading changes since yesterday: Number of tests was most of any day, although it likely included some that should have been reported yesterday;

Yesterday we added ten countries to our coverage – Chile, Ecuador, India, Ireland, Japan, Mexico, Pakistan, Peru, Saudi Arabia and Singapore. This gives us the top 29 countries by total cases, plus South Korea. These 30 countries represent 91.5% of all cases in the world.

Highlights from Saturday include:

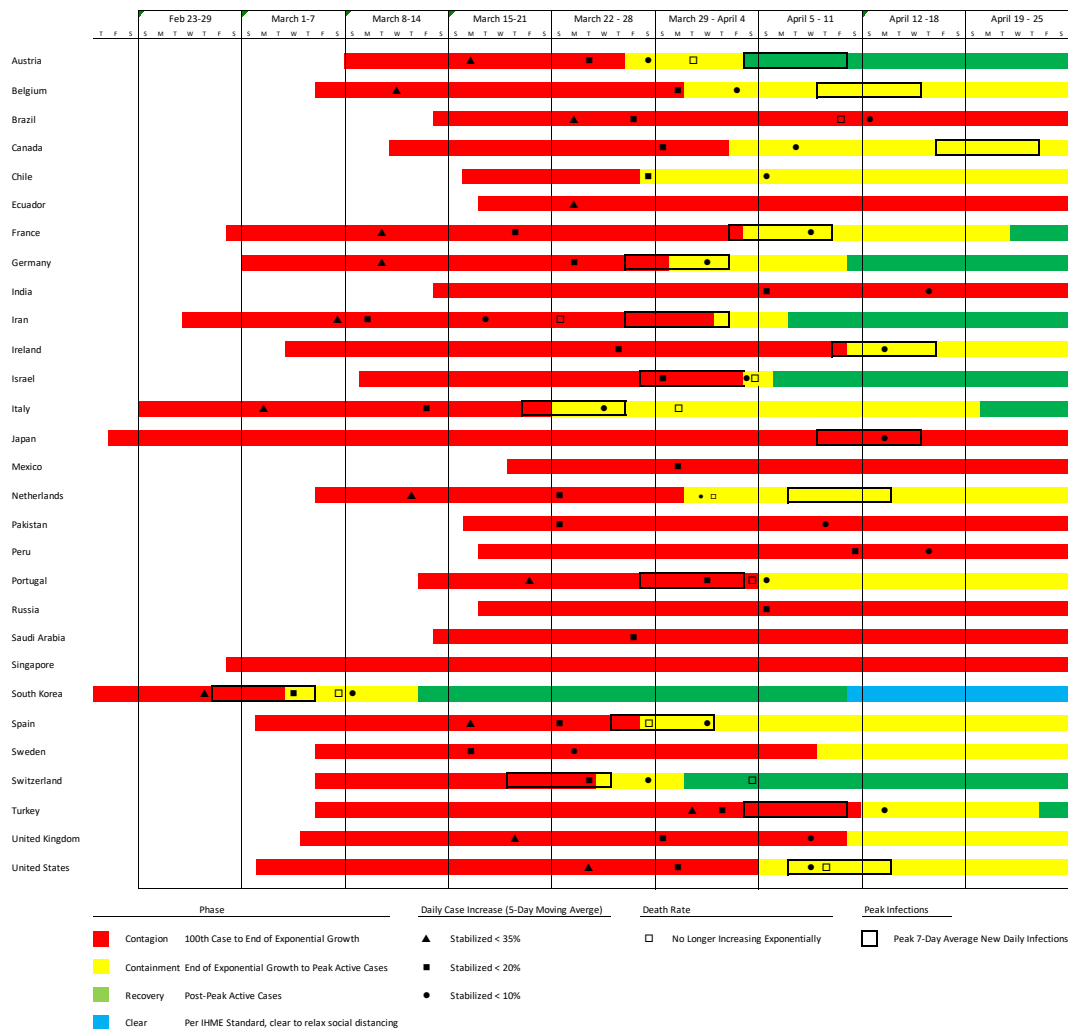
- Reported tests surged again on Saturday – after many states submitted only positive test results on Friday. Nearly 250,000 tests were reported, with an test-positive rate of 13.3% (these compare to an average of 150,000 daily tests from April 13-21, and a cumulative test-positive rate of 18.0%. We need to see a continued acceleration in testing combined with a lower test-positive rate (indicating that testing would be picking up more than the most obvious cases).
- Even with the higher testing numbers, new cases were only up 3.8%. Still the U.S has now more than 950,000 cases in total.
- Recoveries were solid again on Saturday, with 7,730 new cases noted as recovered from the virus. Total recoveries are nearly 120,000, 2.18x the number of deaths (as reported yesterday, we should expect to see this ratio grow to more than 4x). States appear to be slow in reporting these, as many report them in weekly batches; many also wait for 4 weeks post-onset before declaring a person to be recovered.
- Deaths are inching toward the 60,000 level (54,256 as of yesterday). These continue to be concentrated in New York and New Jersey (combined, 51.2% of all deaths in the U.S.). With these 2 states, Michigan, Massachusetts, Illinois and Connecticut combine to account for ~70% of U.S deaths.
- It appears that the virus growth is now shifting to parts of Asia and South America. Ten of the 30 countries we track are still experiencing exponential case growth – Brazil, Ecuador, India, Japan, Mexico, Pakistan, Peru, Russia, Saudi Arabia and Singapore. Still, except for Russia, these countries are in the bottom ½ of the tracked countries in terms of total cases.

Virus Progression: Hardest Hit Countries

Nine of the Ten Countries Added to Our Coverage Are Still Experiencing Exponential Case Growth

Ten countries are still experiencing exponential case growth – Brazil, Ecuador, India, Japan, Mexico, Pakistan, Peru, Russia, Saudi Arabia and Singapore. Note that, except for Russia, these countries are in the bottom ½ of the tracked countries in terms of total cases. The exponential growth in these countries suggests that the virus is beginning to spread now in Asia and South America.

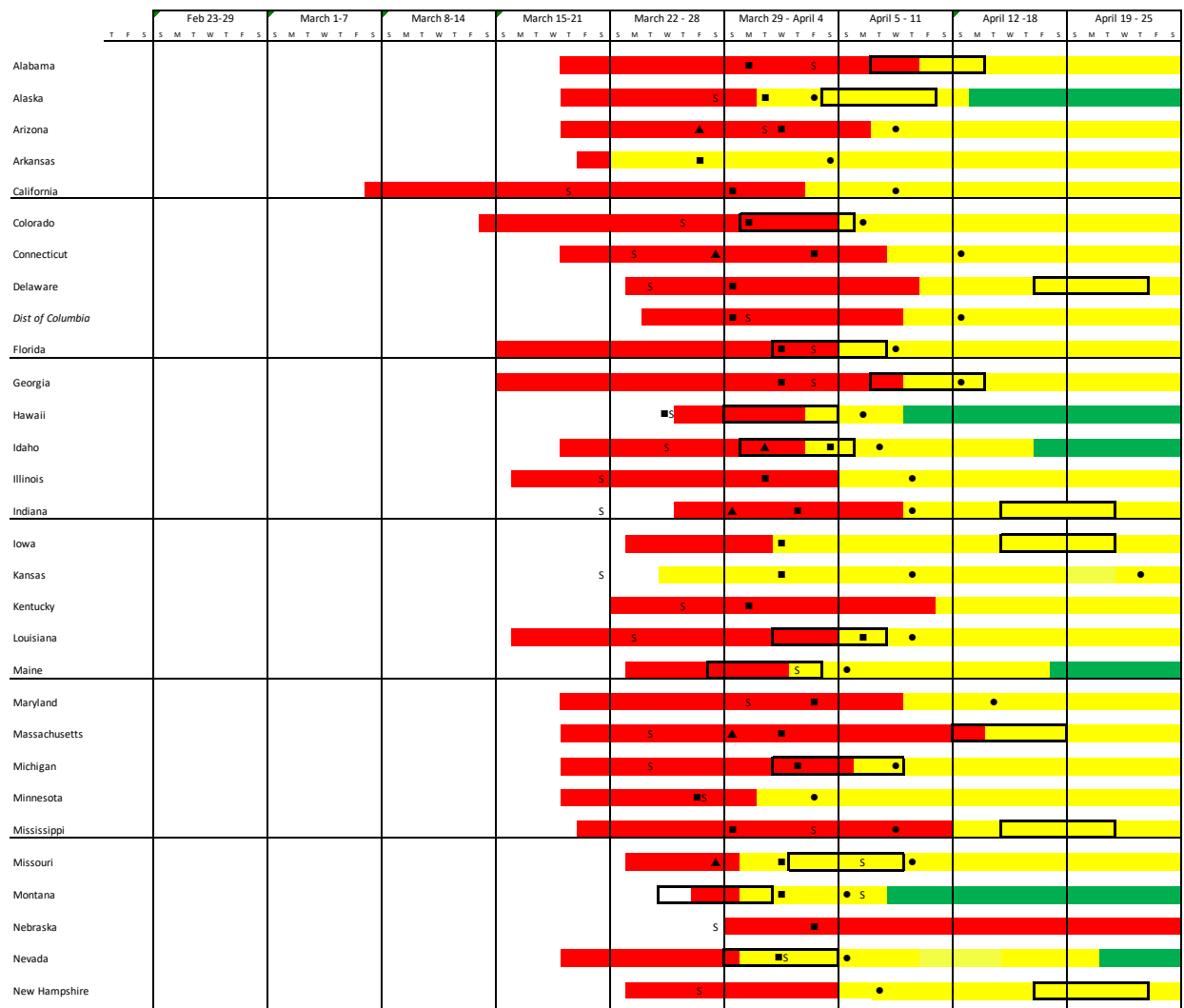
The graphic illustrates in color when the country first recorded 100 total cases (start of the "contagion" phase); when growth stopped following an exponential pattern (start of the "containment" phase); and when peak total cases were recorded (start of the "recovery" phase). It uses symbols to indicate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



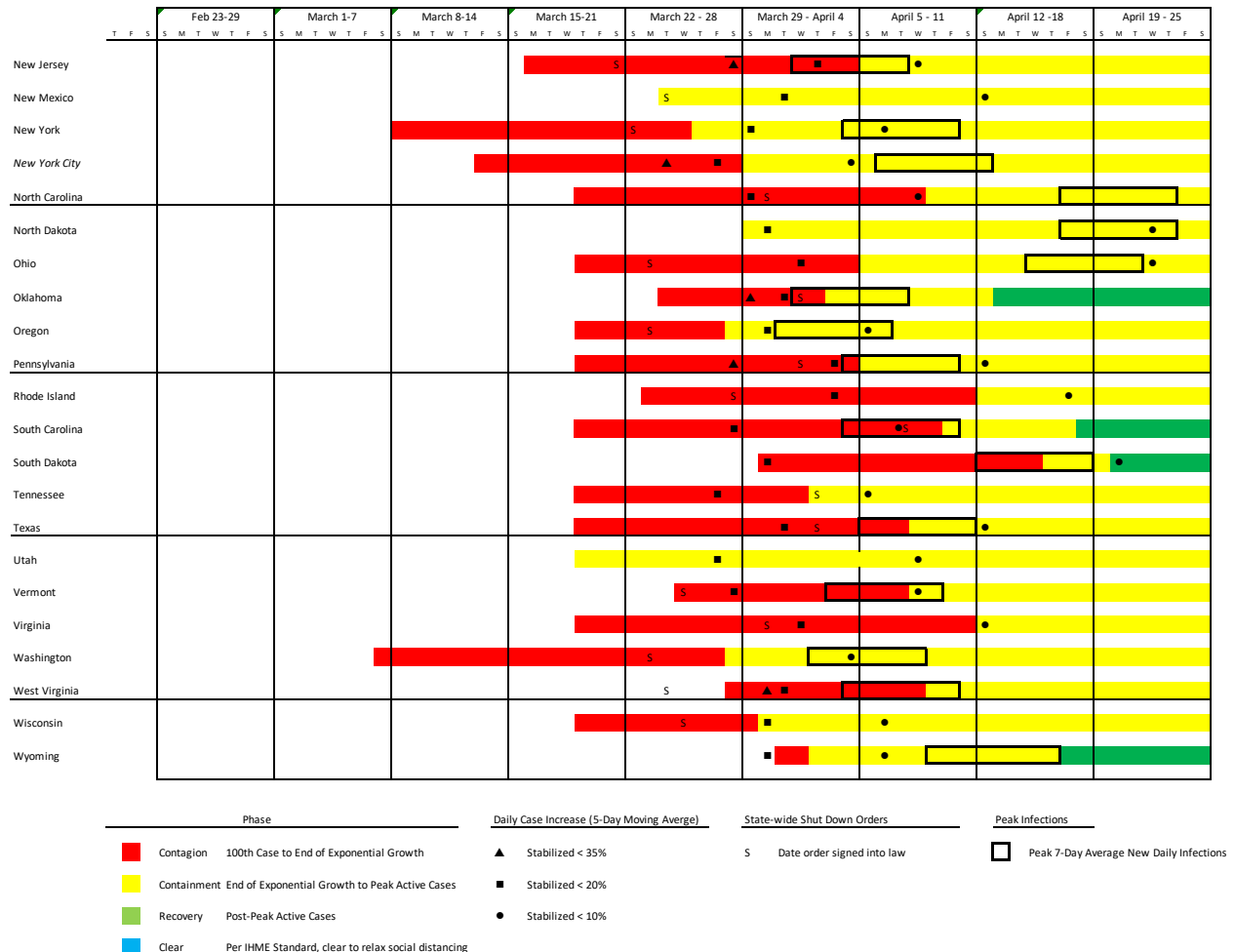
Virus Progression: US States, District of Columbia and New York City

The Majority of U.S. States Are in Containment and Well on Their Way Toward Recovery

Tennessee, after having moved several days past its peak in Active Cases on April 16, recorded a new peak on Saturday. This still leaves ten states – Alaska, Hawaii, Idaho, Maine, Montana, Nevada, Oklahoma, South Carolina, South Dakota and Wyoming – that may be past their peak in Active cases.



(continued on next page)



Country-By-Country Statistics and Rankings

The U.S. Leads the World in Cases and Deaths; Is 5th in New Daily Infections per Capita and 6th in Cases per Capita

This table provided statistics and ranking of each of the countries we are tracking.

As of April 25

Country	Total Cases	Rank	Cases per 1M Population	Rank	Deaths	Rank	Death Rate	Rank	5-day Moving Average Case Growth Rate	Rank	Tests per 1M Population	Rank	New Daily Infections Per 1M Population (5-Day M.A.)	Rank
USA	960,651	(1)	2,902	(6)	54,256	(1)	5.6%	(12)	3.9%	(13)	15,949	(13)	95.8	(5)
Austria	15,148	(24)	1,682	(15)	536	(23)	3.5%	(18)	0.5%	(28)	24,549	(7)	7.6	(24)
Belgium	45,325	(13)	3,911	(2)	6,917	(6)	15.3%	(1)	2.5%	(17)	16,313	(12)	100.4	(4)
Brazil	59,196	(11)	278	(24)	4,045	(11)	6.8%	(9)	7.8%	(8)	1,373	(25)	15.1	(22)
Canada	45,354	(12)	1,202	(18)	2,465	(13)	5.4%	(15)	4.3%	(11)	18,130	(11)	45.3	(13)
Chile	12,858	(26)	673	(21)	181	(28)	1.4%	(26)	4.4%	(10)	7,806	(19)	23.4	(19)
China	82,816	(9)	58	(29)	4,632	(9)	5.6%	(13)	0.0%	(30)	0	(30)	0.0	(30)
Ecuador	22,719	(19)	1,288	(16)	576	(22)	2.5%	(22)	27.9%	(1)	3,203	(24)	110.9	(2)
France	161,488	(4)	2,474	(7)	22,614	(4)	14.0%	(2)	0.8%	(26)	7,103	(20)	21.2	(21)
Germany	156,513	(5)	1,868	(12)	5,877	(7)	3.8%	(17)	1.3%	(24)	24,738	(6)	21.8	(20)
India	26,283	(16)	19	(30)	825	(19)	3.1%	(19)	7.1%	(9)	420	(28)	1.0	(28)
Iran	89,328	(8)	1,064	(19)	5,650	(8)	6.3%	(10)	1.4%	(23)	4,882	(23)	14.4	(23)
Ireland	18,561	(20)	3,759	(3)	1,063	(17)	5.7%	(11)	3.6%	(14)	25,785	(5)	110.0	(3)
Israel	15,298	(23)	1,767	(14)	199	(27)	1.3%	(27)	2.2%	(20)	34,971	(1)	33.6	(16)
Italy	195,351	(3)	3,231	(5)	26,384	(2)	13.5%	(4)	1.5%	(22)	28,245	(4)	45.9	(12)
Japan	12,231	(29)	97	(27)	360	(24)	2.9%	(20)	0.8%	(25)	1,166	(26)	2.2	(27)
Mexico	12,872	(25)	100	(26)	1,221	(16)	9.5%	(8)	10.7%	(2)	398	(29)	6.6	(25)
Netherlands	37,190	(14)	2,170	(10)	4,409	(10)	11.9%	(6)	2.2%	(21)	11,319	(15)	46.7	(11)
Pakistan	12,723	(27)	58	(28)	269	(25)	2.1%	(25)	8.1%	(6)	654	(27)	3.3	(26)
Peru	25,331	(17)	768	(20)	700	(20)	2.8%	(21)	9.6%	(4)	6,618	(21)	47.3	(10)
Portugal	23,392	(18)	2,294	(8)	880	(18)	3.8%	(16)	2.3%	(18)	32,414	(2)	51.9	(9)
Russia	74,588	(10)	497	(22)	681	(21)	0.9%	(28)	9.6%	(3)	18,649	(10)	36.0	(15)
Saudi Arabia	16,299	(22)	468	(23)	136	(29)	0.8%	(29)	8.5%	(5)	11,609	(14)	32.9	(17)
Singapore	12,693	(28)	2,170	(11)	12	(30)	0.1%	(30)	7.8%	(7)	5,745	(22)	163.6	(1)
South Korea	10,718	(30)	209	(25)	240	(26)	2.2%	(24)	0.1%	(29)	20,815	(8)	0.2	(29)
Spain	223,759	(2)	4,786	(1)	22,902	(3)	10.2%	(7)	2.2%	(19)	19,896	(9)	89.7	(6)
Sweden	18,177	(21)	1,800	(13)	2,192	(14)	12.1%	(5)	4.2%	(12)	9,357	(18)	61.6	(8)
Switzerland	28,894	(15)	3,374	(4)	1,599	(15)	5.5%	(14)	0.6%	(27)	28,343	(3)	24.9	(18)
Turkey	107,773	(7)	1,278	(17)	2,706	(12)	2.5%	(23)	3.4%	(16)	10,298	(16)	43.1	(14)
UK	148,377	(6)	2,186	(9)	20,319	(5)	13.7%	(3)	3.5%	(15)	9,439	(17)	71.9	(7)

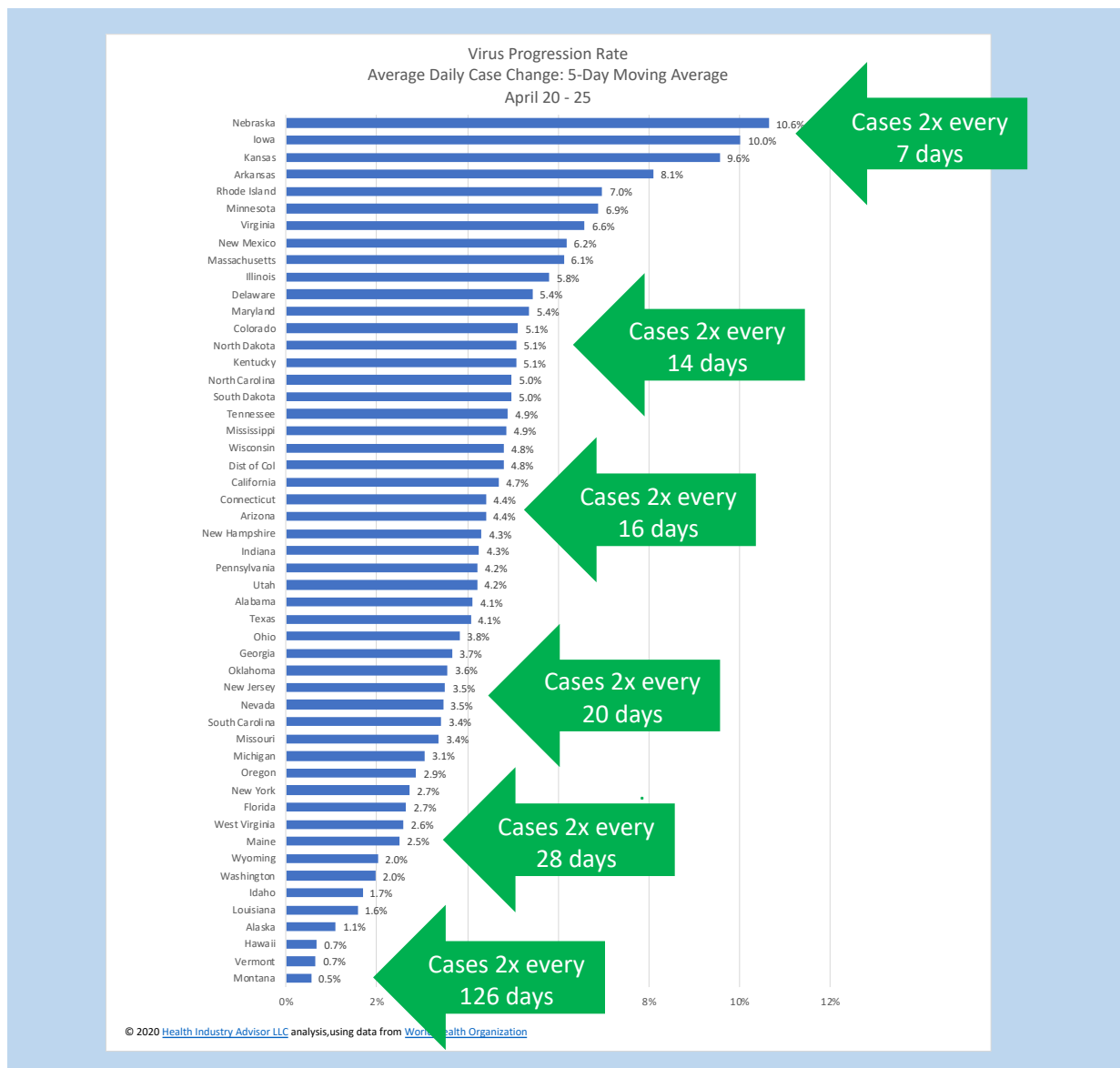
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Daily Case Growth Rates By State

Case Growth Rates Continue to Fall Dramatically Across the U.S.

Nebraska and Iowa are the only states experiencing daily case growth > 10%. Nebraska also is the only state still experiencing exponential case growth.

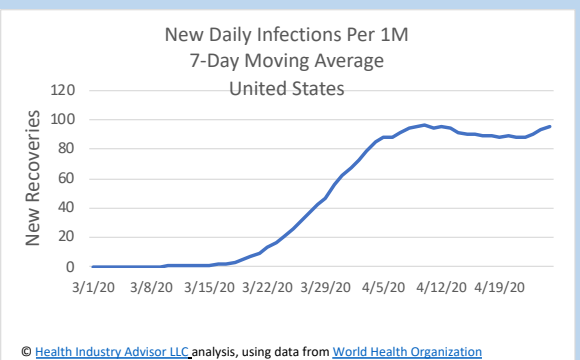
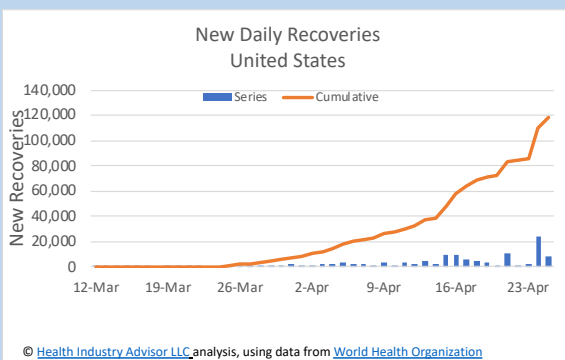
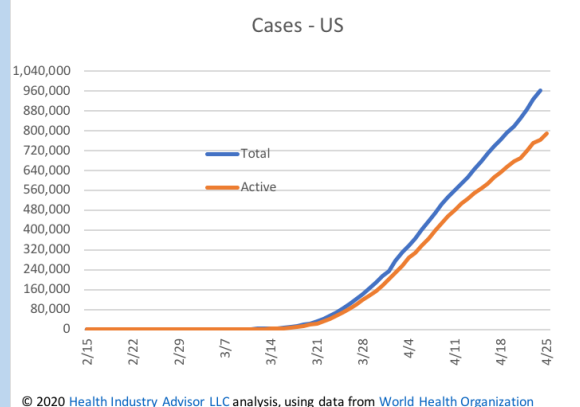
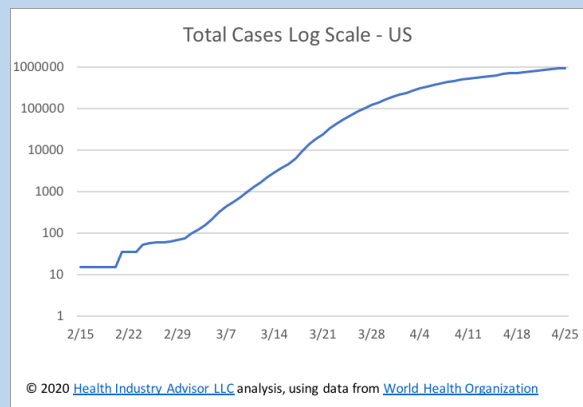
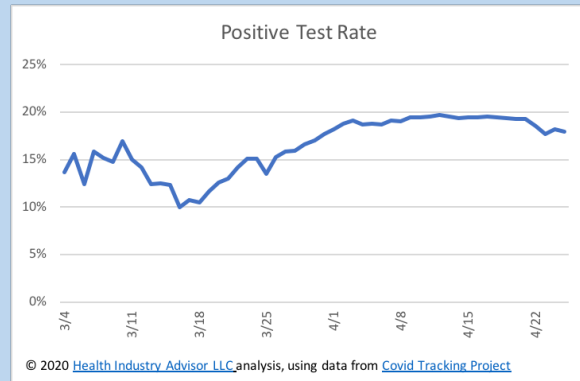
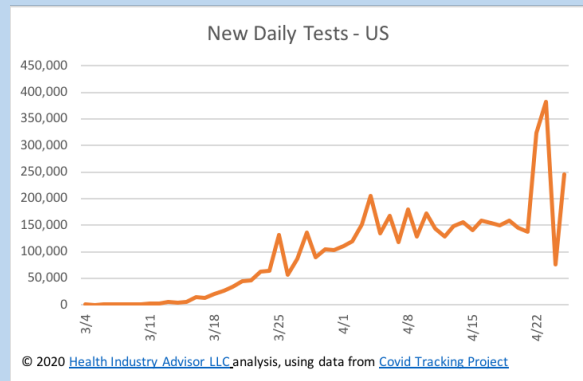
The case growth rate is so low in Montana that it would now take 126 days for cases to double; in Hawaii and Vermont, 107 days. In Louisiana and New York – two of the hardest-hit states – it would take 43 and 26 days, respectively. For the U.S. overall, it would take about 18 days.



Cases and Death Rates in the U.S.

Case Growth Has Plateaued in the U.S.; Active Cases Are Continuing to Fall off From Total Cases; As Testing Has Picked Up Pace, New Infections Per Capita Has Increased Slightly, Yet, the Test-Positive Test Rate Has Dropped

Cases in the U.S. are no longer growing at an exponential rate; active cases, however, have yet to peak. As infected persons begin to recover, active cases are beginning to separate from total cases.



Hardest-Hit States

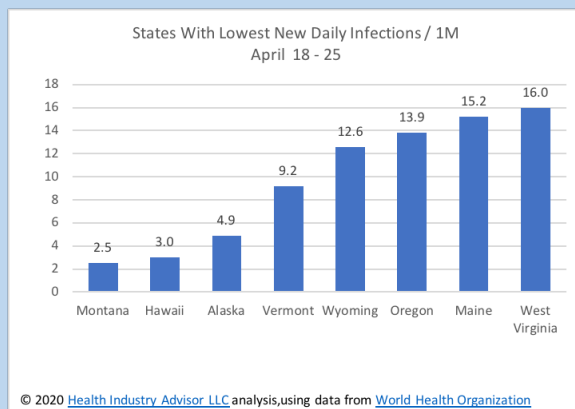
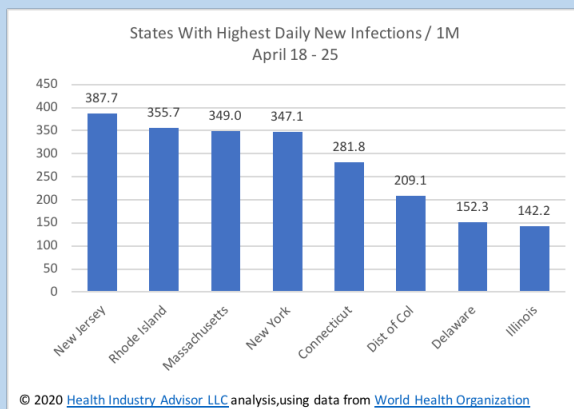
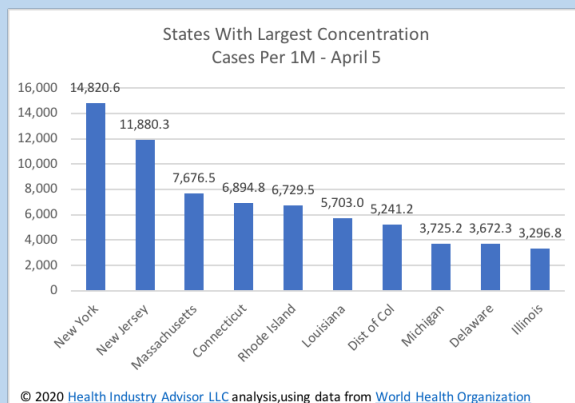
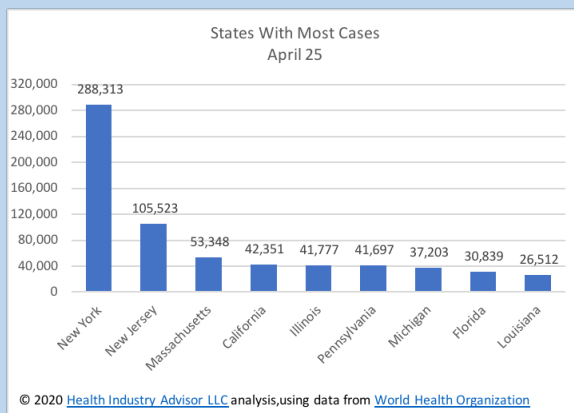
New York Has Experienced Far More Coronavirus Cases, and More Cases Per Capita Than Any State

New York, which now has nearly 290,000 cases, represents 30% of all coronavirus cases in the U.S., down from a peak of 48% on March 25. The top ten states account 80.7% of all cases as well as of all deaths. New York by itself accounts for 40.4% of the deaths in the U.S.; New York and New Jersey combined, 51.2%.

Cases per capita in New York, New Jersey, Massachusetts, Connecticut, Rhode Island, Louisiana and the District of Columbia are greater than any of the hardest-hit countries in the world.

Michigan has the highest death rate (8.8%), followed by New York (7.6%), Connecticut (7.6%), and Minnesota (7.1%). Minnesota, however, ranks 46th in cases per capita.

From April 19-25, New Jersey has the highest rate of new daily infections, at 387.7; Rhode Island has moved up to 2nd, with 355.7. The 347.1 rate in New York places them now 4th, and is significantly below its peak of 505.8 experienced April 4 – 10.



State-By State Statistics and Rankings

New York Continues To Experience the Most Cases, Cases Per Capita and Deaths

This table provided statistics and ranking of each of the 50 states and the District of Columbia.

As of April 25

State	Total Cases	Rank	Cases per 1M Population	Rank	Deaths	Rank	Death Rate	Rank	5-day Moving Average Case Growth Rate	Rank	Tests per 1M Population	Rank	New Daily Cases Per 1M Population (5-Day M.A.)	Rank
Alabama	6,213	(24)	1,267.1	(29)	213	(26)	3.4%	(32)	4.1%	(29)	14,666	(25)	43.4	(29)
Alaska	339	(51)	463.4	(49)	9	(50)	2.7%	(41)	1.1%	(48)	21,302	(13)	4.9	(49)
Arizona	6,280	(23)	862.8	(40)	273	(21)	4.3%	(21)	4.4%	(24)	8,998	(49)	30.6	(38)
Arkansas	2,909	(37)	963.9	(38)	48	(42)	1.7%	(48)	8.1%	(4)	12,761	(31)	55.4	(24)
California	42,351	(4)	1,071.8	(33)	1,686	(9)	4.0%	(24)	4.7%	(22)	12,623	(32)	42.1	(31)
Colorado	12,968	(17)	2,251.9	(14)	672	(16)	5.2%	(12)	5.1%	(13)	10,810	(41)	87.7	(16)
Connecticut	24,582	(10)	6,894.8	(4)	1,862	(6)	7.6%	(3)	4.4%	(23)	21,667	(12)	281.8	(5)
Delaware	3,576	(33)	3,672.3	(9)	112	(35)	3.1%	(38)	5.4%	(11)	18,639	(17)	152.3	(7)
District Of Columbia	3,699	(32)	5,241.2	(7)	165	(32)	4.5%	(20)	4.8%	(21)	25,277	(7)	209.1	(6)
Florida	30,839	(8)	1,435.9	(22)	1,055	(10)	3.4%	(33)	2.7%	(41)	16,262	(20)	35.6	(34)
Georgia	23,216	(12)	2,186.6	(15)	907	(11)	3.9%	(25)	3.7%	(32)	11,558	(36)	72.3	(19)
Hawaii	604	(48)	426.6	(50)	14	(48)	2.3%	(43)	0.7%	(49)	19,881	(15)	3.0	(50)
Idaho	1,887	(42)	1,053.0	(35)	56	(39)	3.0%	(40)	1.7%	(46)	11,471	(37)	17.5	(43)
Illinois	41,777	(5)	3,296.8	(10)	1,874	(5)	4.5%	(19)	5.8%	(10)	15,725	(21)	142.2	(8)
Indiana	14,395	(15)	2,138.2	(16)	785	(13)	5.5%	(10)	4.3%	(26)	12,019	(33)	79.7	(18)
Iowa	5,092	(28)	1,613.9	(19)	112	(35)	2.2%	(44)	10.0%	(2)	10,207	(45)	116.8	(10)
Kansas	3,135	(36)	1,076.1	(32)	120	(33)	3.8%	(28)	9.6%	(3)	8,663	(50)	66.0	(21)
Kentucky	3,905	(31)	874.1	(39)	205	(27)	5.2%	(11)	5.1%	(15)	10,486	(42)	38.3	(32)
Louisiana	26,512	(9)	5,703.0	(6)	1,703	(8)	6.4%	(5)	1.6%	(47)	30,460	(4)	90.1	(15)
Maine	990	(45)	736.5	(45)	50	(41)	5.1%	(14)	2.5%	(43)	13,296	(28)	15.2	(45)
Maryland	17,766	(13)	2,938.6	(12)	875	(12)	4.9%	(15)	5.4%	(12)	14,845	(24)	129.0	(9)
Massachusetts	53,348	(3)	7,676.5	(3)	2,730	(4)	5.1%	(13)	6.1%	(9)	33,212	(3)	349.0	(3)
Michigan	37,203	(7)	3,725.2	(8)	3,274	(3)	8.8%	(1)	3.1%	(38)	14,466	(26)	91.7	(14)
Minnesota	3,446	(34)	611.0	(46)	244	(23)	7.1%	(4)	6.9%	(6)	10,239	(44)	31.2	(37)
Mississippi	5,718	(25)	1,921.3	(17)	221	(24)	3.9%	(26)	4.9%	(19)	19,726	(16)	83.7	(17)
Missouri	6,881	(22)	1,121.2	(31)	283	(20)	4.1%	(23)	3.4%	(37)	11,004	(39)	31.7	(36)
Montana	445	(50)	416.4	(51)	14	(48)	3.1%	(37)	0.5%	(51)	11,996	(34)	2.5	(51)
Nebraska	2,732	(38)	1,412.3	(23)	53	(40)	1.9%	(46)	10.6%	(1)	11,223	(38)	106.7	(12)
Nevada	4,539	(29)	1,473.6	(20)	204	(28)	4.5%	(18)	3.5%	(35)	15,699	(22)	42.3	(30)
New Hampshire	1,787	(43)	1,314.2	(27)	60	(38)	3.4%	(34)	4.3%	(25)	13,193	(29)	46.8	(27)
New Jersey	105,523	(2)	11,880.3	(2)	5,863	(2)	5.6%	(7)	3.5%	(34)	23,996	(9)	387.7	(1)
New Mexico	2,660	(39)	1,268.6	(28)	93	(36)	3.5%	(30)	6.2%	(8)	24,617	(8)	58.7	(23)
New York	288,313	(1)	14,820.6	(1)	21,908	(1)	7.6%	(2)	2.7%	(40)	39,635	(2)	347.1	(4)
North Carolina	8,753	(20)	834.6	(41)	305	(19)	3.5%	(31)	5.0%	(16)	10,365	(43)	32.5	(35)
North Dakota	803	(47)	1,053.7	(34)	16	(46)	2.0%	(45)	5.1%	(14)	25,725	(6)	51.6	(25)
Ohio	15,587	(14)	1,333.5	(26)	711	(15)	4.6%	(17)	3.8%	(31)	9,567	(47)	65.6	(22)
Oklahoma	3,193	(35)	806.9	(44)	194	(29)	6.1%	(6)	3.6%	(33)	13,530	(27)	22.5	(42)
Oregon	2,253	(40)	534.2	(48)	87	(37)	3.9%	(27)	2.9%	(39)	11,606	(35)	13.9	(46)
Pennsylvania	41,697	(6)	3,257.1	(11)	1,804	(7)	4.3%	(22)	4.2%	(27)	15,029	(23)	111.2	(11)
Rhode Island	7,129	(21)	6,729.5	(5)	215	(25)	3.0%	(39)	7.0%	(5)	48,164	(1)	355.7	(2)
South Carolina	5,253	(27)	1,020.3	(36)	166	(31)	3.2%	(36)	3.4%	(36)	9,890	(46)	27.9	(40)
South Dakota	2,147	(41)	2,426.9	(13)	10	(49)	0.5%	(51)	5.0%	(17)	18,045	(19)	97.7	(13)
Tennessee	9,189	(19)	1,344.8	(25)	178	(30)	1.9%	(47)	4.9%	(18)	21,261	(14)	50.7	(26)
Texas	24,195	(11)	834.4	(42)	641	(17)	2.6%	(42)	4.1%	(30)	9,425	(48)	27.2	(41)
Utah	3,948	(30)	1,231.5	(30)	41	(44)	1.0%	(50)	4.2%	(28)	29,621	(5)	45.3	(28)
Vermont	843	(46)	1,351.0	(24)	46	(43)	5.5%	(9)	0.7%	(50)	23,492	(10)	9.2	(48)
Virginia	12,366	(18)	1,448.8	(21)	436	(18)	3.5%	(29)	6.6%	(7)	8,579	(51)	72.2	(20)
Washington	13,319	(16)	1,749.1	(18)	738	(14)	5.5%	(8)	2.0%	(45)	23,387	(11)	28.7	(39)
West Virginia	1,025	(44)	573.5	(47)	33	(45)	3.2%	(35)	2.6%	(42)	18,157	(18)	16.0	(44)
Wisconsin	5,687	(26)	976.7	(37)	266	(22)	4.7%	(16)	4.8%	(20)	10,872	(40)	36.5	(33)
Wyoming	473	(49)	817.3	(43)	7	(51)	1.5%	(49)	2.0%	(44)	13,102	(30)	12.6	(47)
United States	925,232		2,818.2		52,193		5.6%		3.6%		15,153		91.0	

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State-By-State Readiness For Relaxing Restrictions

As States Begin to Relax Restrictions, Some Appear To Be More Ready Than Others

On Thursday, April 16, 2020, President Trump released his guidelines for three phases of [Opening Up America Again](#). Each state governor, however, retains the authority to determine how and when to open their states, based on the unique circumstances of their respective states.

The President outlined a staged approach, based on the state meeting certain “gating” criteria:

- Symptoms
 - Downward trajectory of influenza-like illness (ILI) reported within a 14-day period, and
 - Downward trajectory of COVID-19 syndromic cases reported within a 14-day period
- Cases
 - Downward trajectory of documented cases reported within a 14-day period, or
 - Downward trajectory of positive tests as a percent of total tests within a 14-day period (flat or increasing volume of tests)
- Hospitals
 - Treat all patients without crisis care, and
 - Robust testing program in place for at-risk healthcare workers, including emergency antibody testing

In order to mirror these gating criteria, we have incorporated the following measures into a readiness scorecard, (along with the rationale for the scoring within each measure):

- Tests/Capita – indicates testing robustness; grading quintiles based on comparison to: the top 5, top 1/3, top 1/2 and top 2/3 among the countries we track, then all others
 - Direction – whether test volume increased/stayed level, or decreased least week v. prior week
- 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 decreased least week v. prior week
- 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 decreased least week v. prior week
- 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 % 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.

These measures reflect a snapshot in time. A state can be expected to move up or down on the scale over the course of several days.

This scorecard is for informational purposes only. The measures and grading used are not based on any scientific standard and should not be considered a substitute for public health considerations or other clinical or economic judgement. States may elect to move faster or slower than the scorecard might otherwise indicate.

State-By-State Relative "Readiness" For Relaxing Restrictions (DRAFT)
As of: 4/26/2020

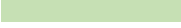
This table compares each state, based on measures similar to the gating criteria included in the federal government's *Opening Up America Plan*. This chart is for informational purposes only, and should not be construed as a substitute for public health considerations, clinical judgement or as a recommendation for taking any specific action.

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	29,900.7	✓		✗		✓	✗	✓	
Maine		✓		✗		✓	✓	✓	
Maryland		✓		✗		✗	✗	✓	
Massachusetts	32,641.9	✓		✓		✗	✗	✓	
Michigan		✓		✓		✓	✓	✓	
Minnesota		✓		✗		✓	✓	✓	
Mississippi		✓		✗		✗	✓	✓	
Missouri		✓		✓		⚠	✓	✓	
Montana		✓		✓		✓	✓	✓	
Nebraska		✓		✗		⚠	✗	✓	
Nevada		✓		✗		⚠	✓	✓	
New Hampshire		✓		✓		✗	✓	✓	
New Jersey		✓		✓		✗	✗	✓	
New Mexico		✓		✓		✗	✓	✓	
New York	39,970.5	✓		✓		⚠	✗	✓	
North Carolina		✓		✓		✗	✓	✓	
North Dakota	25,391.6	✓		✓		✗	✓	✓	
Ohio		✓		✓		✗	✓	✓	
Oklahoma		✓		✓		⚠	✓	✓	
Oregon		✓		✓		⚠	✗	✓	
Pennsylvania		✓		✓		⚠	✗	✓	
Rhode Island	48,039.3	✓		✓		✗	✓	✓	
South Carolina		✓		✓		⚠	✗	✓	
South Dakota		✓		✓		⚠	✓	✓	
Tennessee		✓		✓		⚠	✓	✓	
Texas		✓		✓		⚠	✓	✓	
Utah	28,137.0	✓		✓		✗	✓	✓	
Vermont		✓		✓		✓	✗	✓	
Virginia		✓		✓		✗	✗	✓	
Washington		✓		✗		✓	✓	✓	
West Virginia		✓		✓		⚠	✓	✓	
Wisconsin		✓		✗		⚠	✗	✓	
Wyoming		✓		✗		✓	✓	✓	

Legend and notes are on the following page.

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Legend:

Time period	Tests per Capita	Direction	Test-Positive Rate	Direction	New Daily Infection Rate	Direction	Baseline	Direction	Hospital Resources
	per 1M last 7 days	last 7 days v prior week	last 7 days	last 7 days v prior week	per 1M last 7 days	last 7 days v prior week	CDC Baseline by region	last 3 weeks v prior 3 weeks	As of 4/26
	> 25,000		<=2%		<10				<45% of Peak
	18-25,000		2-10%		10-50				45-60% of Peak
	12-18,000		10-14%		50-100				60-75% of Peak
	9-12,000		14-18%		100-150				75-85% of peak
	<9,000		>18%		>15				>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/grasp/fluview/fluportaldashboard.html>), accessed April 25, 2020

Test data from Covid Tracking Project (<https://covidtracking.com/>), accessed March 21-April 25, 2020

Hospital resource Need projections from Institute for Health Metrics and Evaluation (I), accessed April 25, 2020

Infection rate data from World Health Organization (worldometers.info), accessed March 21-April 25, 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=AAgXBV>), accessed April 24, 2020

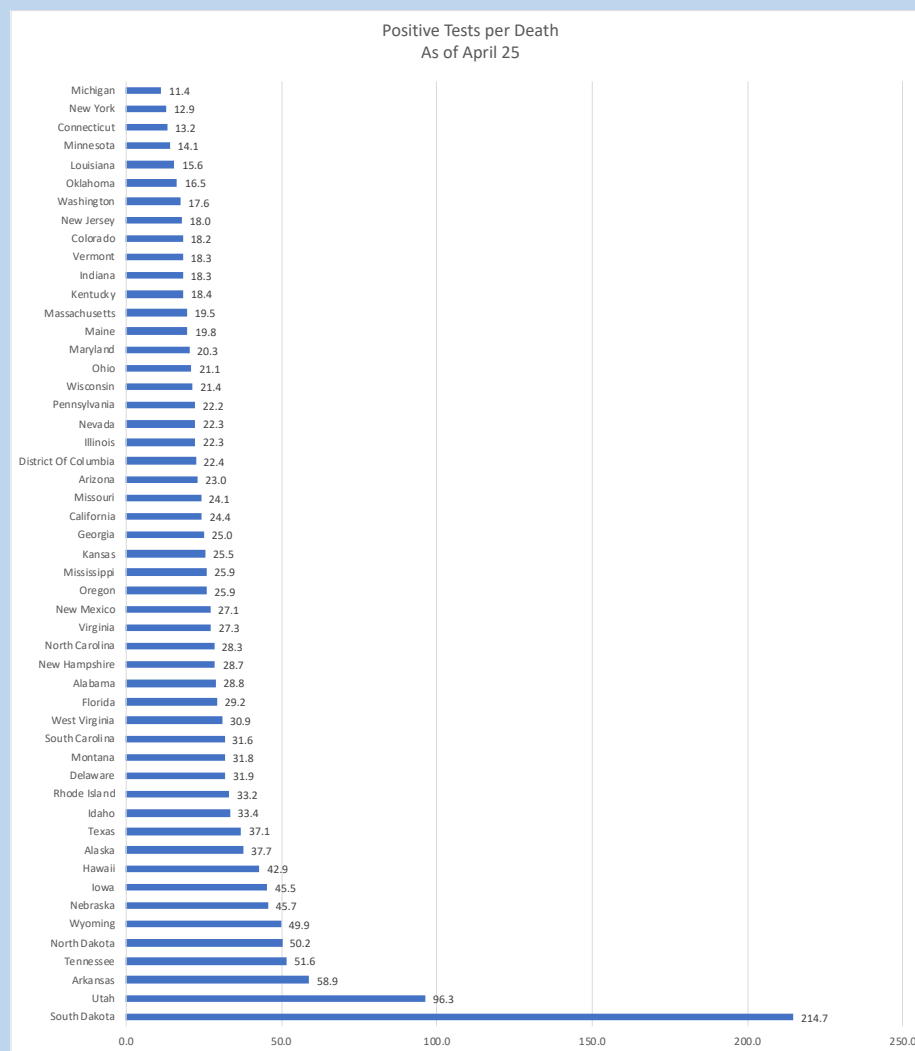
"A New Statistic Reveals Why America's COVID-19 Numbers Are Flat", Robinson Meyer and Alexis C. Madrigal, April 16, 2020, The Atlantic, accessed April 24, 2020

Ratio of Tests to Deaths

One Measure of Testing Robustness Is the Ratio of Positive Tests to Deaths

Patrick Cain, writing Friday in *Global News* ([What does doing enough coronavirus testing look like? Here's a number to watch](#)), suggested a ratio of Positive Tests to Deaths as a measure of testing robustness: *“the higher the number of tests in relation to each death, the better the surveillance is, and the better the chance that it’s finding people who are asymptomatic. The lower the number, the better the chance that only a few of the most obvious cases are being found.”*

Following is a chart showing these ratios by state, as of April 25. Michigan appears to be under-testing, while Utah and South Dakota are testing rates comparable to the best in the world, as reported by Cain.



State-By State New Daily Infection Rates

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As the United States Aims For Recovery, New Daily Infections Are One of the Key Metrics to Follow

A clear indication of a slowdown in the virus spread is the rate of new infections each day. Coupled with a robust test rate and a low and declining test-positive rate, the hope is to observe a downward slope in this time-series.

On the following pages, we present time-series charts of the new daily infections per capita (on a 7-day moving average basis, to minimize both weekend and reporting lag impacts).



