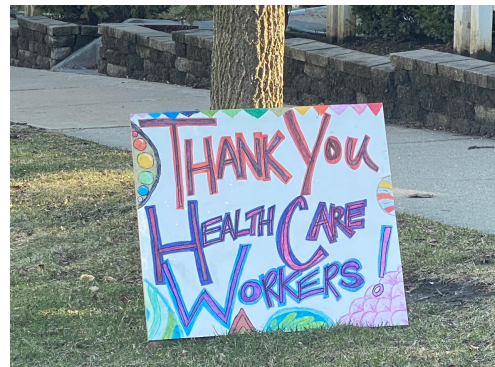
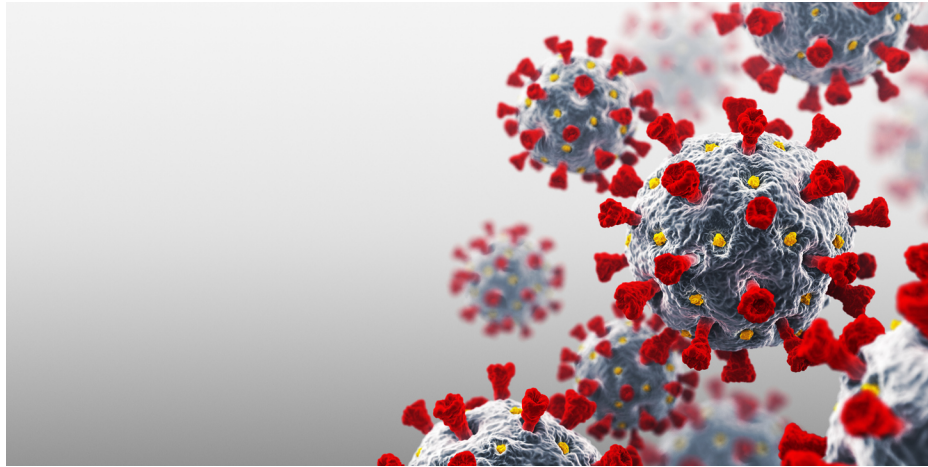
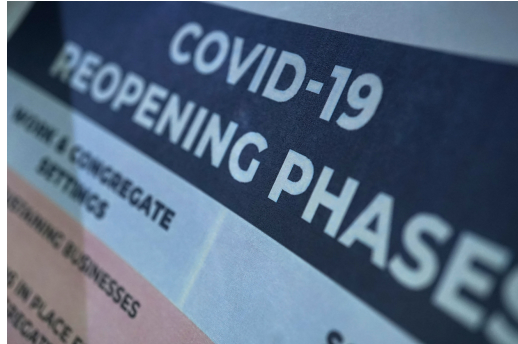




COVID-19 Report

Issue # 110

Monday, July 20, 2020

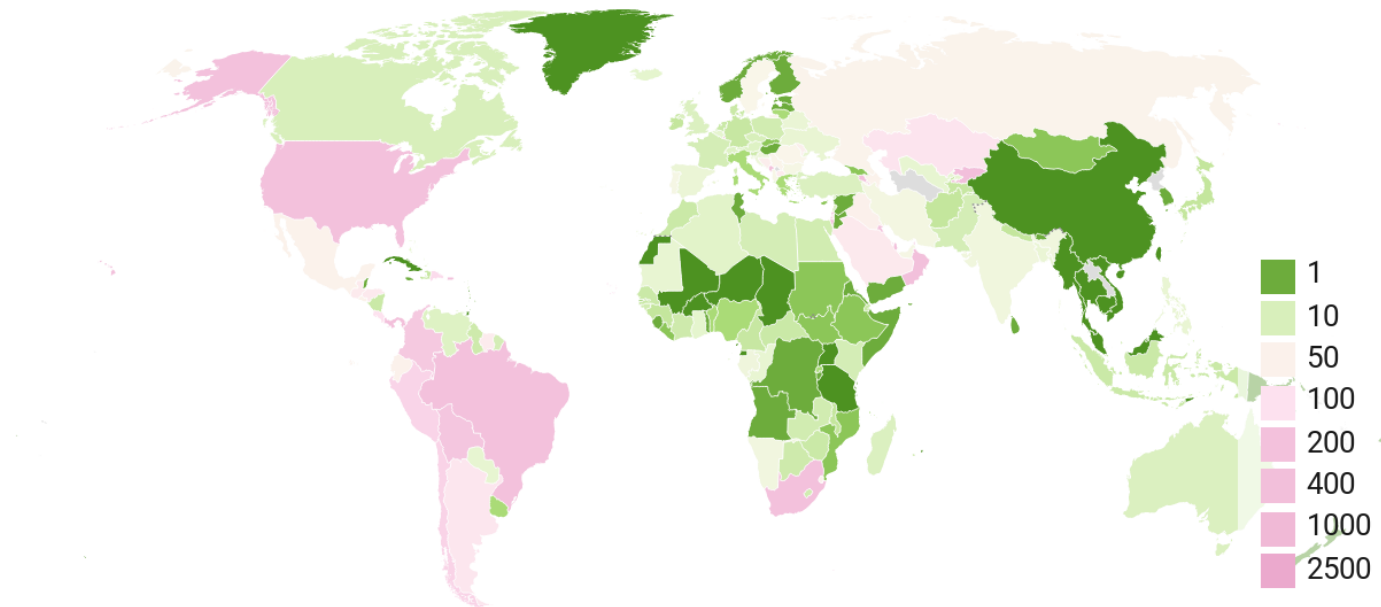
- Starting with the worldwide perspective, there are several recent hot-spots:
 - South Africa has quickly advanced to 5th in the world in total cases. This country has the highest rate of new infections per capita over the past week, among the 30 countries with the most cases
 - Bangladesh has moved up to 16th in total cases; Colombia to 18th; and, Argentina to 20th
 - The United States ranks 2nd among the top 30 countries in new infections per capita over the past week, among the 30 countries with the most cases. On case growth, however, the U.S. ranks 9th; on testing per capita, 3rd
- On several measures, the United States is exhibiting signs of stabilization:
 - Test-positive rates have been staying within a narrow range for 8 days, and remain below the 10% level advocated by World Health Organization scientists
 - New cases on both Saturday and Sunday were significantly lower than record-high levels posted on Wednesday, Thursday and Friday
 - After 5 weeks of accelerated growth in new daily infections per capita, this rate has been relatively stable for the past 4 days; rates in hard-hit Arizona and Florida are showing signs of improvement
 - Deaths with the coronavirus declined Sunday for the 4th consecutive day
- Hospitalized patients, which were essentially unchanged Thursday to Friday, declined on Saturday and gain on Sunday. This broke a string of 19 consecutive days of increasing hospitalizations. With the stabilizing hospitalizations, ICU and ventilator rates also have stabilized recently
- Several states, including a few that have been hard-hit recently, are making progress against the virus spread:
 - Arizona is now 12 days removed from its peak new daily infection rate
 - California is 7 days removed
 - Florida is now 2 days removed
 - New York and Pennsylvania have now moved 100 days past their respective peaks, going Michigan (103 days) and Vermont (101 days) in this milestone
 - Notable states that have yet to move past a peak, and that exhibit high rates: Alabama, Georgia, Idaho, Nevada, Tennessee and Texas
- Still, the situation remains of great concern in the United States: using a model we developed that accounts for the rate of infections, case growth, hospitalizations and test-positive rates, 70% of the country's population resides in a state that should be of "high" or "moderately high" concern about the state of virus progression

Worldwide

**South Africa now ranks 5th in total cases; Bangladesh
16th, Colombia 18th and Argentina 20th**

New Infections / 1 Million Population

Trailing 7-Day Moving Average, As of July 19



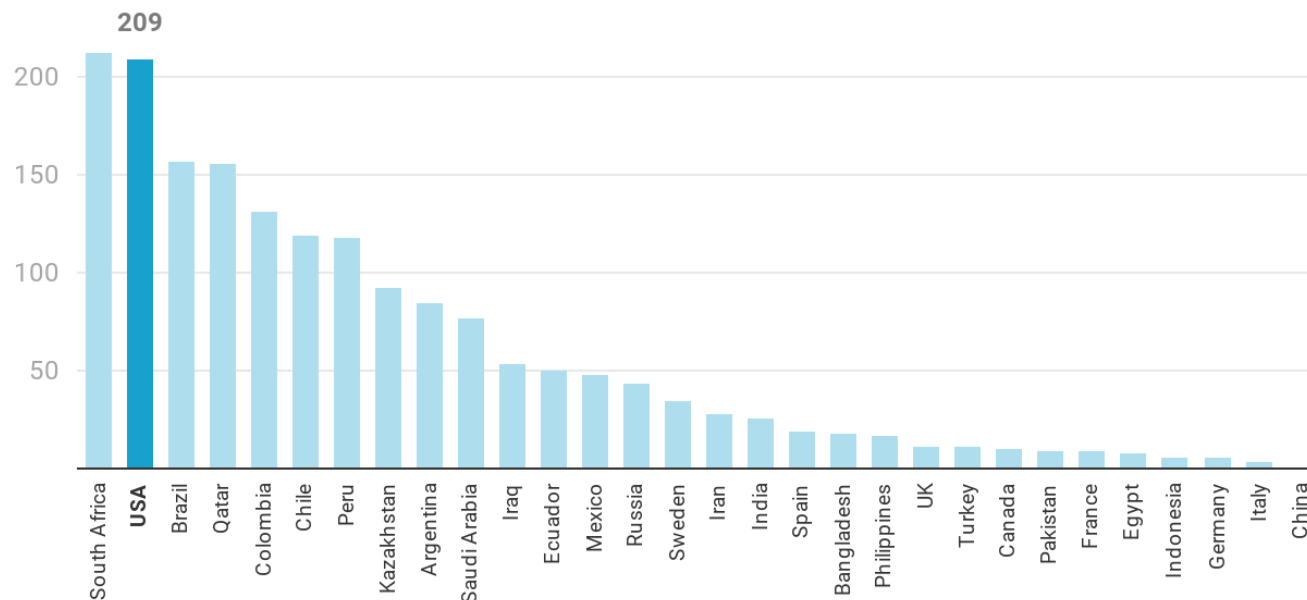
Health Industry Advisor LLC analysis

Map: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

United States trails only South Africa in the current rate of new infections, among the 30 countries with the most total cases

New Daily Infections / 1 Million Population

Trailing 7-Day Moving Average, As of July 19



Health Industry Advisor LLC analysis

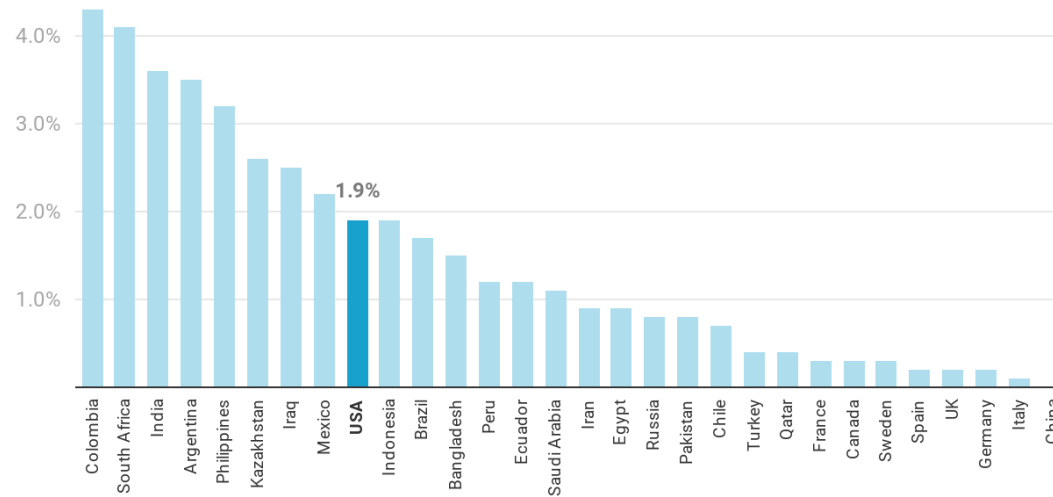
Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Countries With Most Total Cases

United States is testing more than all except the UK and France;
Rate of case increase in the US is 9th highest among the top 30

Daily Change (%) in Total Cases

30 Countries With Most Total Cases, Trailing 5-Day Moving Average, As of July 19

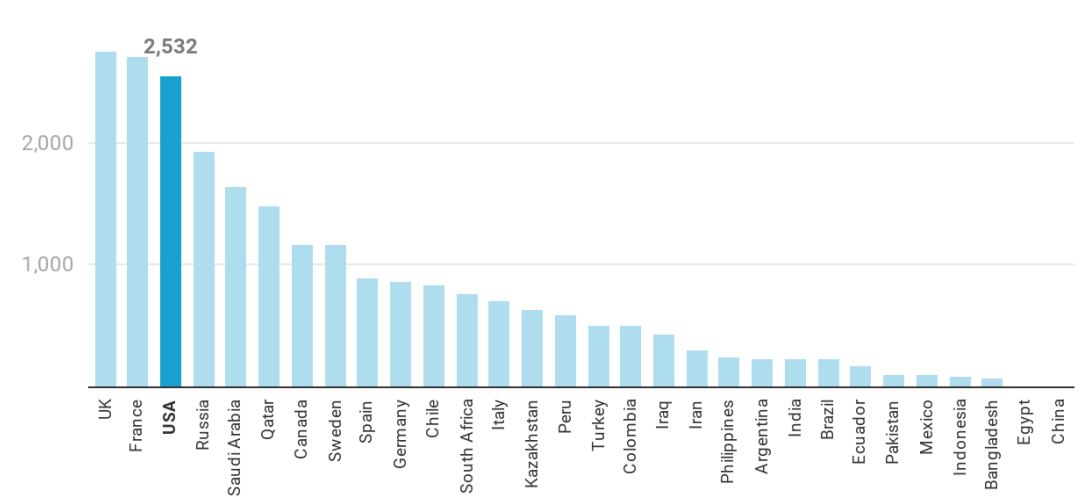


Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Daily Tests Per 1 Million Population

30 Countries With Most Total Cases, Trailing 7-Day Moving Average, As of July 19

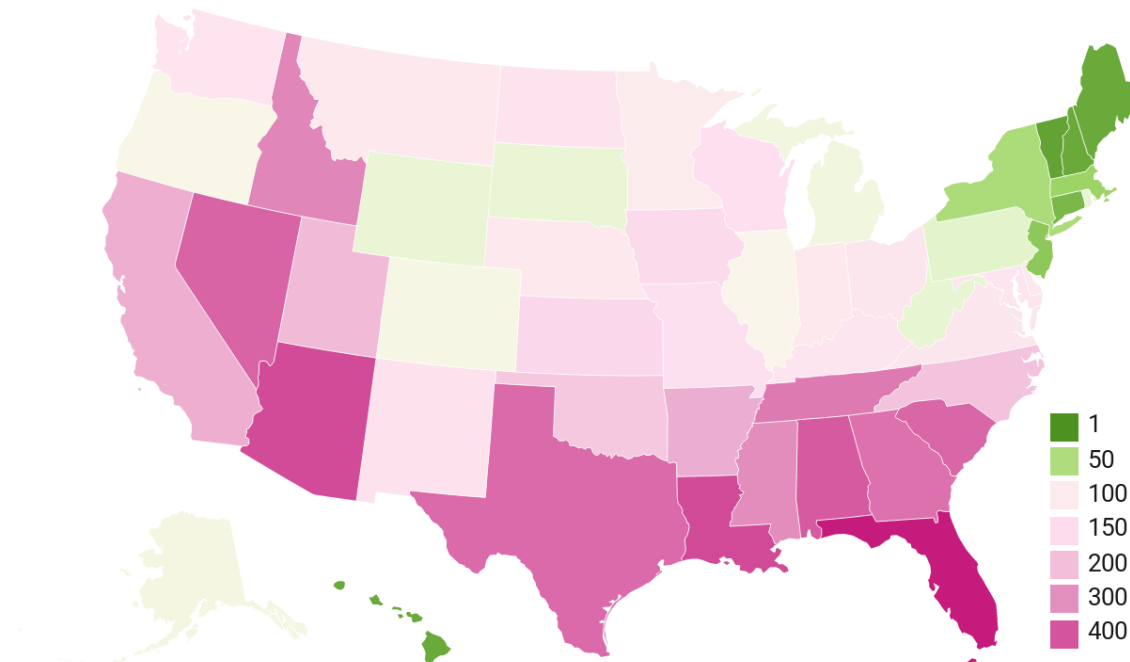


Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

New Infections Per 1 Million Population

Trailing 7-Day Moving Average, As of July 19

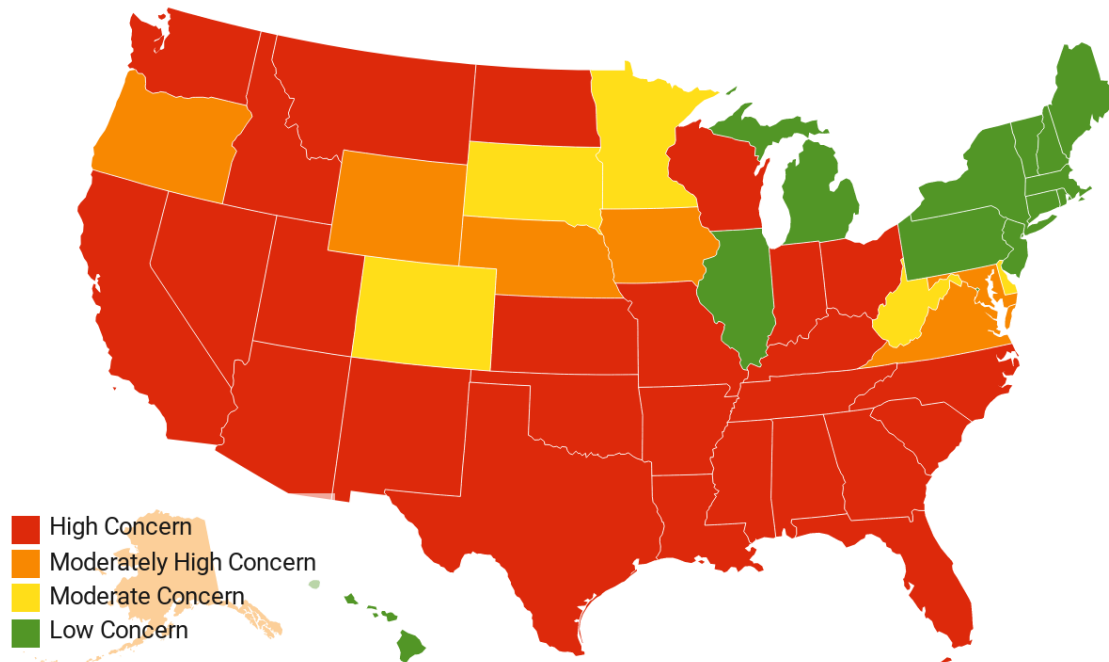


Health Industry Advisor LLC analysis

Map: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Scorecard

As of July 19



We developed this scoring system to account for the many variables that impact how a state is faring against the virus spread:

- Recent infection rate
- Test-positive %
- Daily case growth
- Hospitalizations

Scoring based on new infection, test-positive, hospitalization and case growth rates

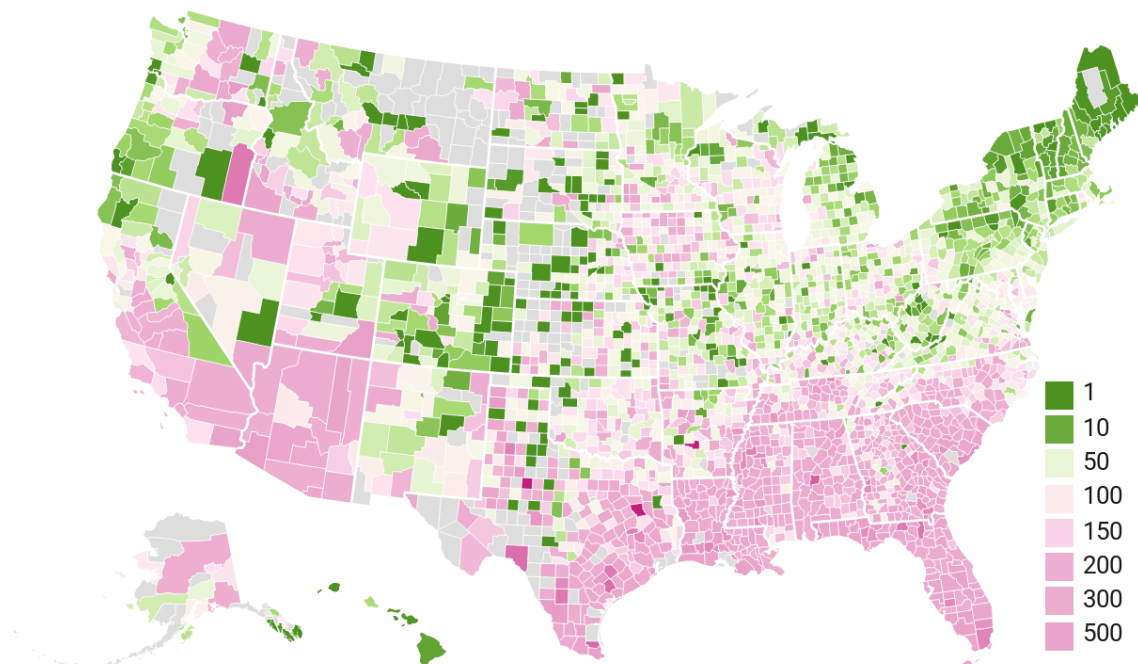
Map: Health Industry Advisor LLC • Created with Datawrapper

County-By-County

Highest New Daily Infection Rates are concentrated in the South and West; particularly along the southern border

New Daily Infections Per Million Population

Trailing 7-Day Moving Average, As of July 18

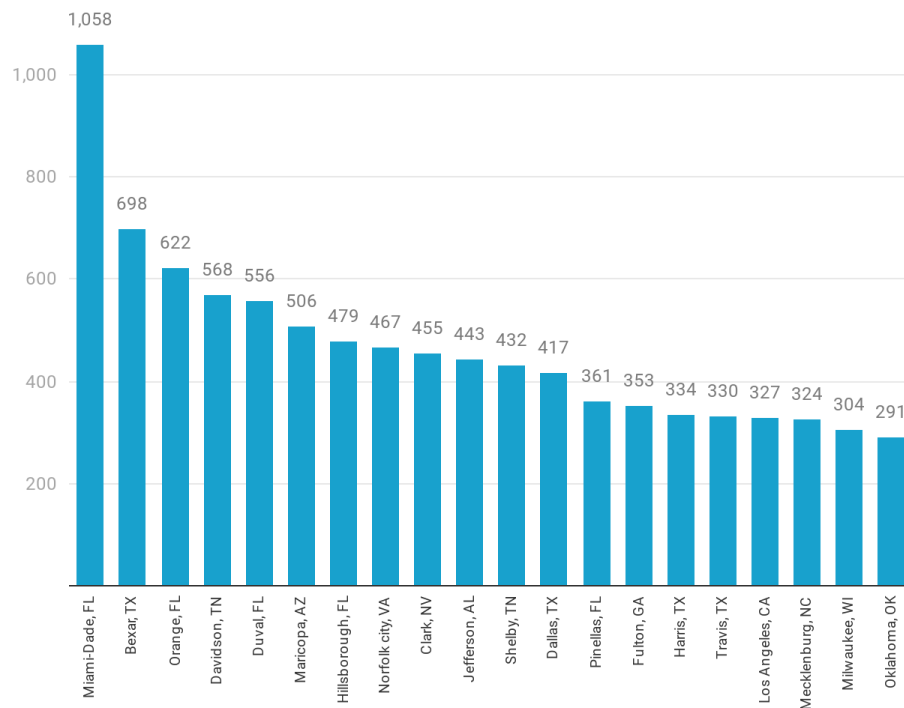


Health Industry Advisor LLC analysis

Map: Health Industry Advisor LLC • Source: New York Times • Created with Datawrapper

New Infections / 1 Million, Trailing 7-Day Moving Average

Large Central Metro Areas, As of July 18

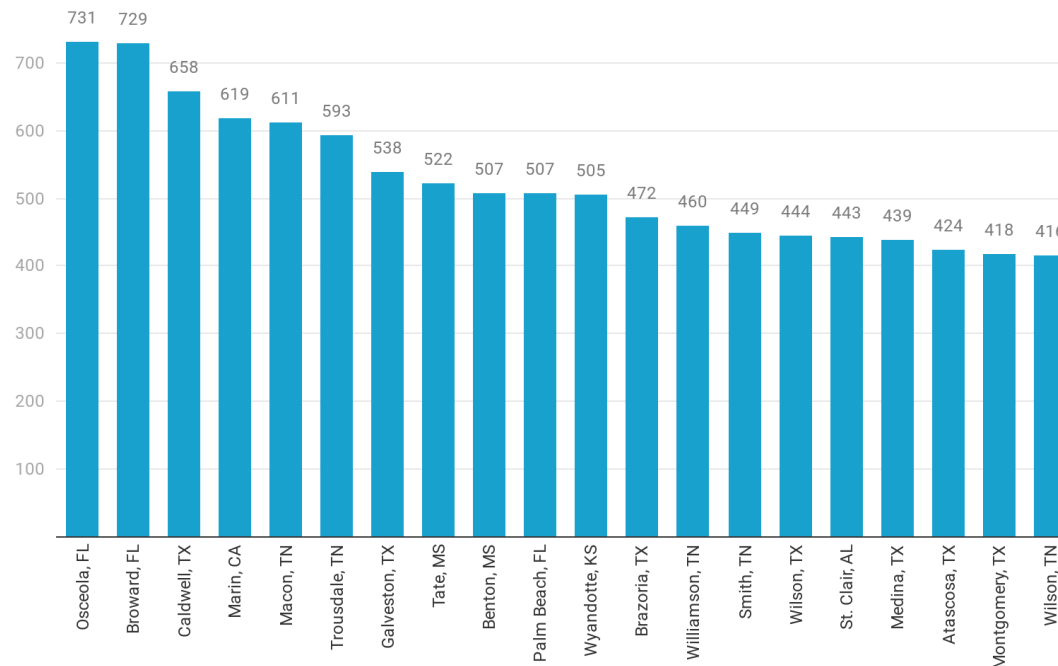


Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

New Infections / 1 Million, Trailing 7-Day Moving Average

Large Fringe Metro Areas, As of July 18



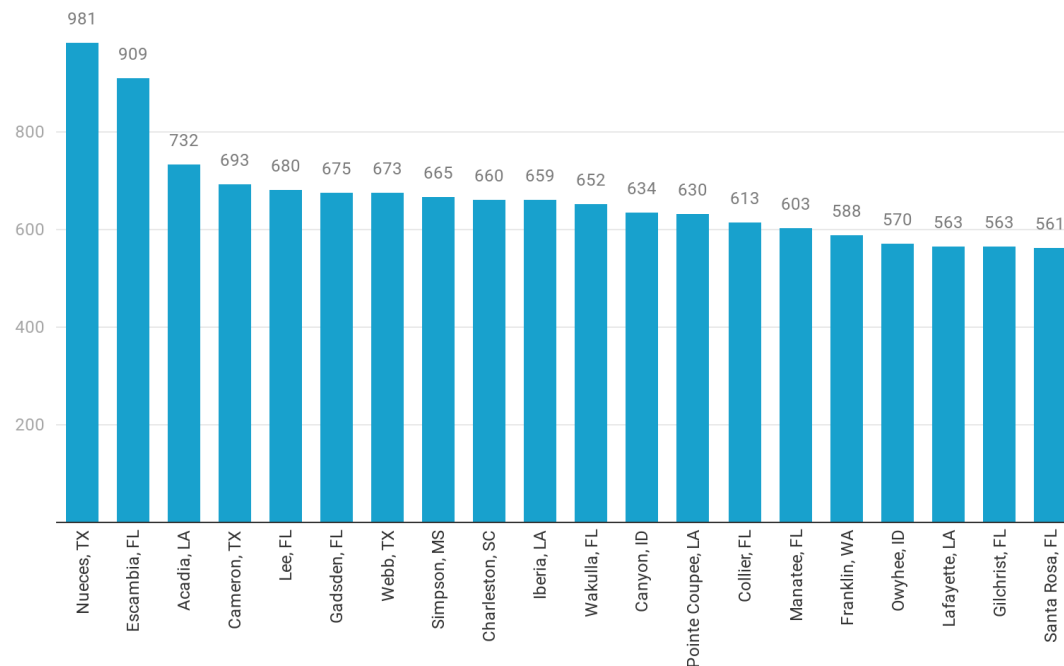
Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Most of the medium and small metro areas with the highest new infection rates are in southern states

New Infections / 1 Million, Trailing 7-Day Moving Average

Medium Metro Areas, As of July 18

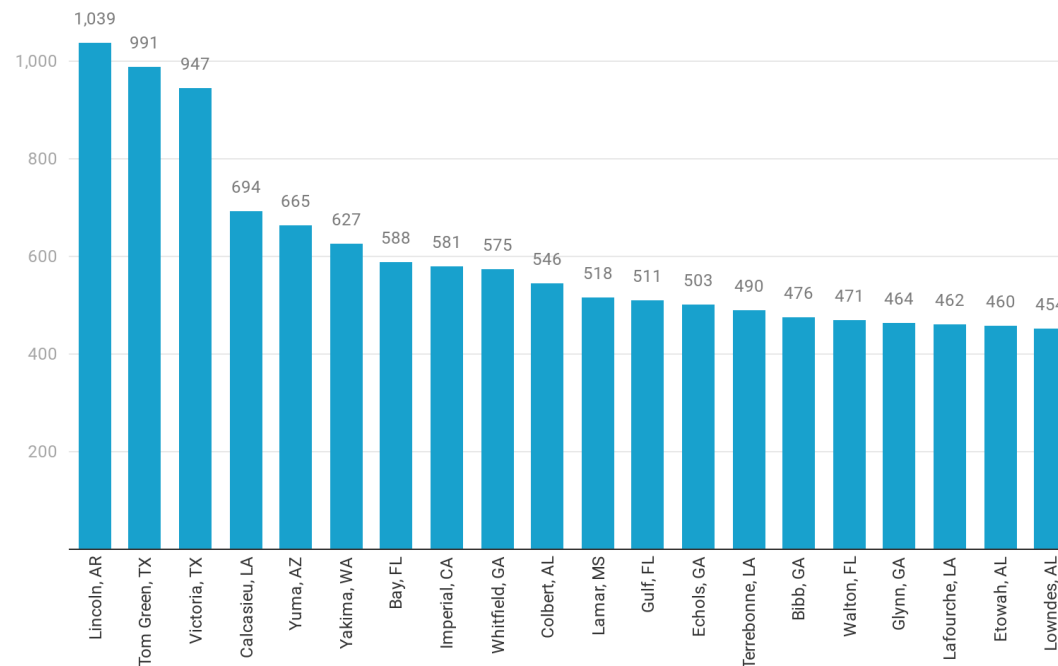


Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

New Infections / 1 Million, Trailing 7-Day Moving Average

Small Metro Areas, As of July 18



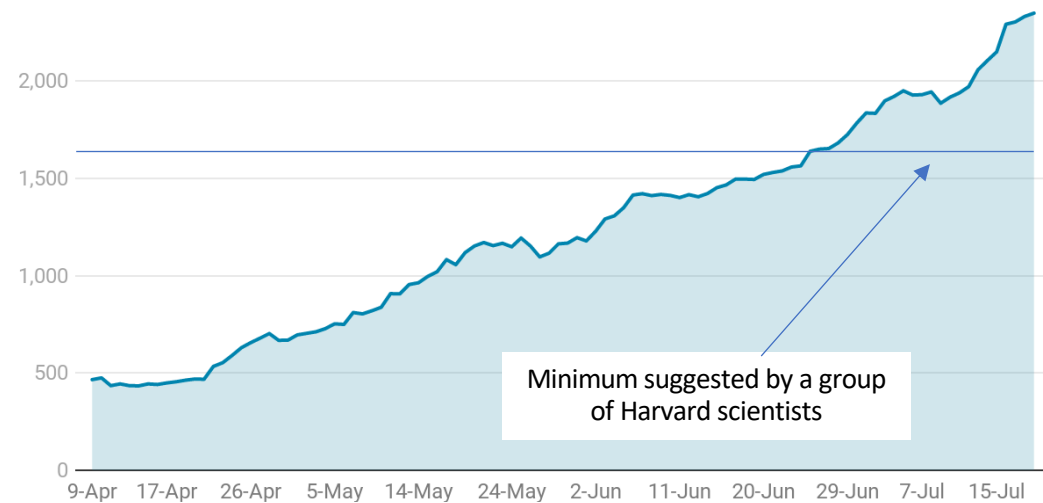
Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Testing continues to ramp-up; test-positive rate is stabilizing or slightly declining

Daily Tests Per 1 Million - United States

Trailing 7-Day Moving Average, As of July 19

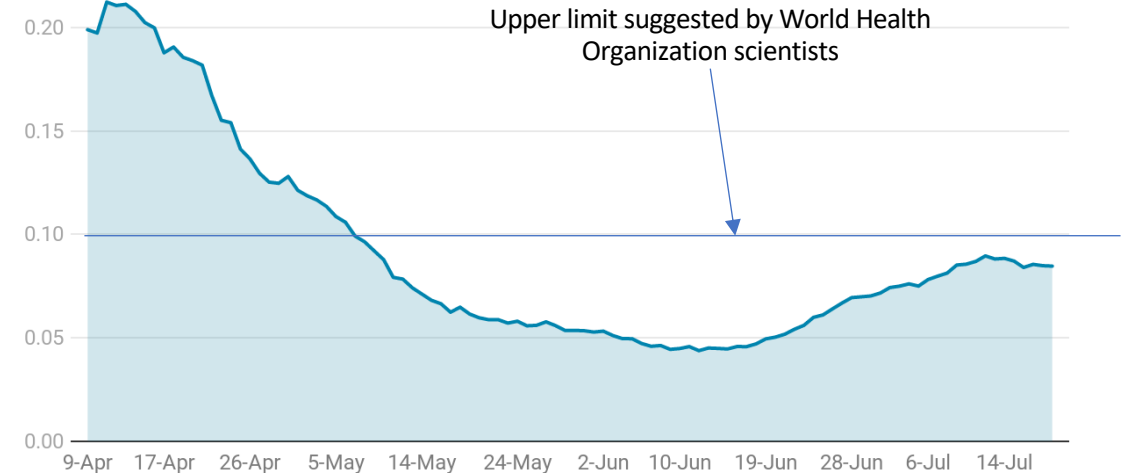


Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

Test-Positive Rate - United States

Trailing 7-Day Moving Average, As of July 19



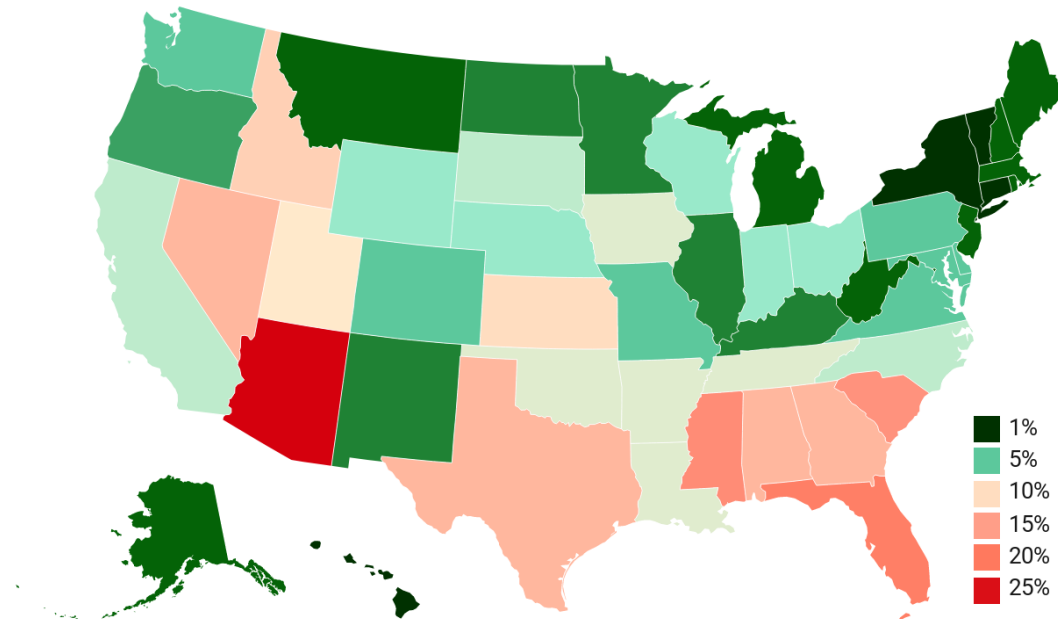
Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

Test-Positive Rates continue to be high in most states in the South; yet, have been fairly consistent over past 2 weeks

Test-Positive Rate

Trailing 7-Day Moving Average, As of July 5

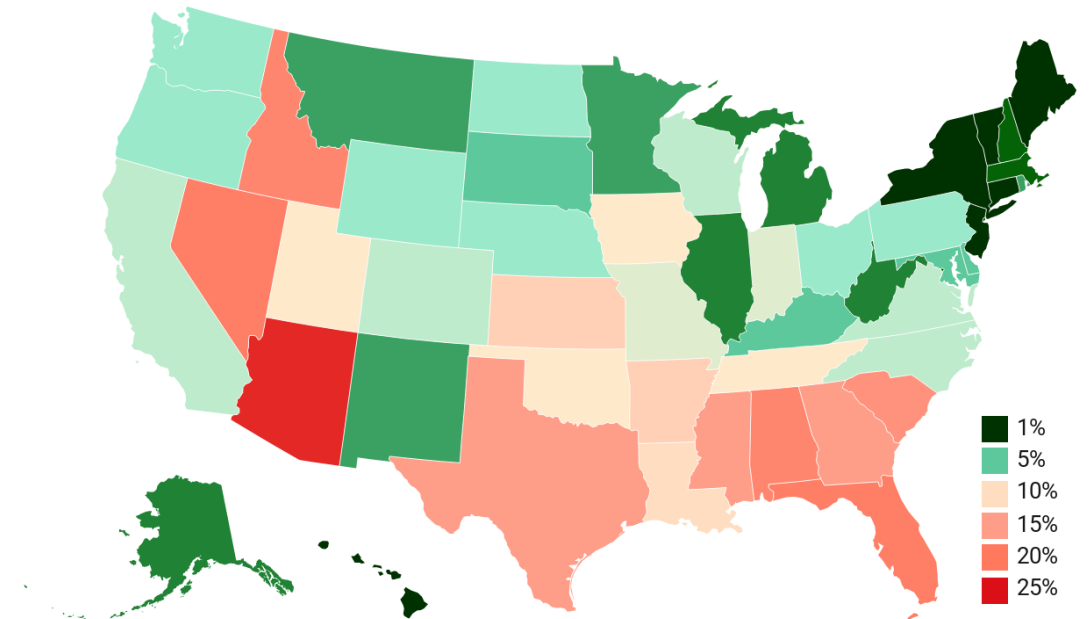


Health Industry Advisor LLC analysis

Map: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

Test-Positive Rate

Trailing 7-Day Moving Average, As of July 19



Health Industry Advisor LLC analysis

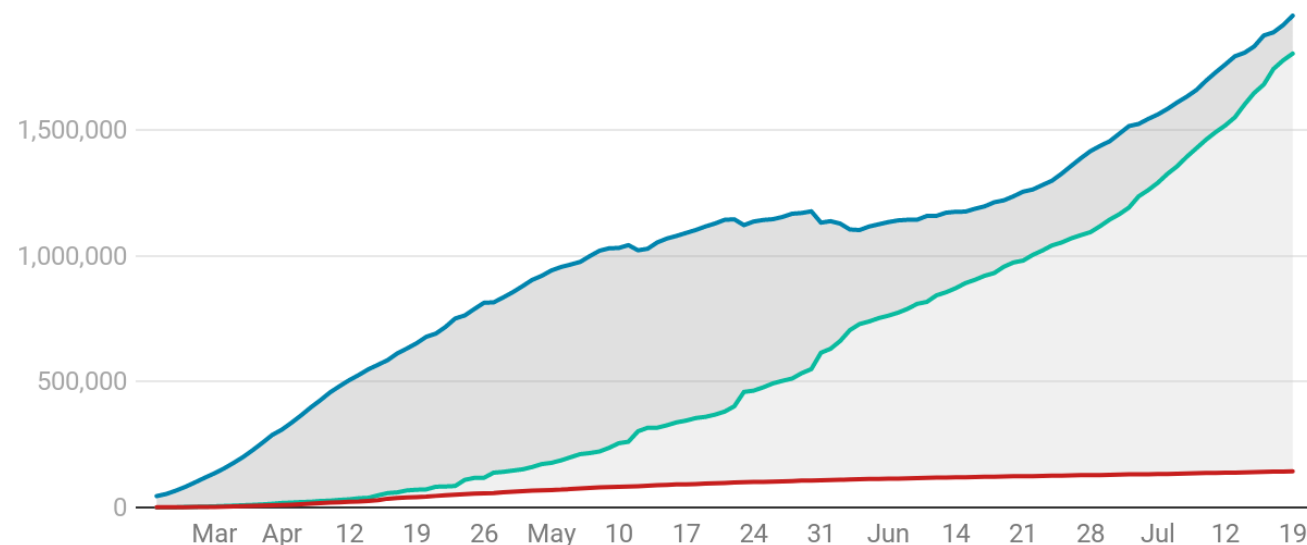
Map: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

Recoveries nearly equaling active cases; Deaths represent a far smaller share of outcomes

Active Cases v. Recoveries & Deaths

As of July 19

— Active Cases — Recoveries — Deaths



Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Growth Rate in Total Cases

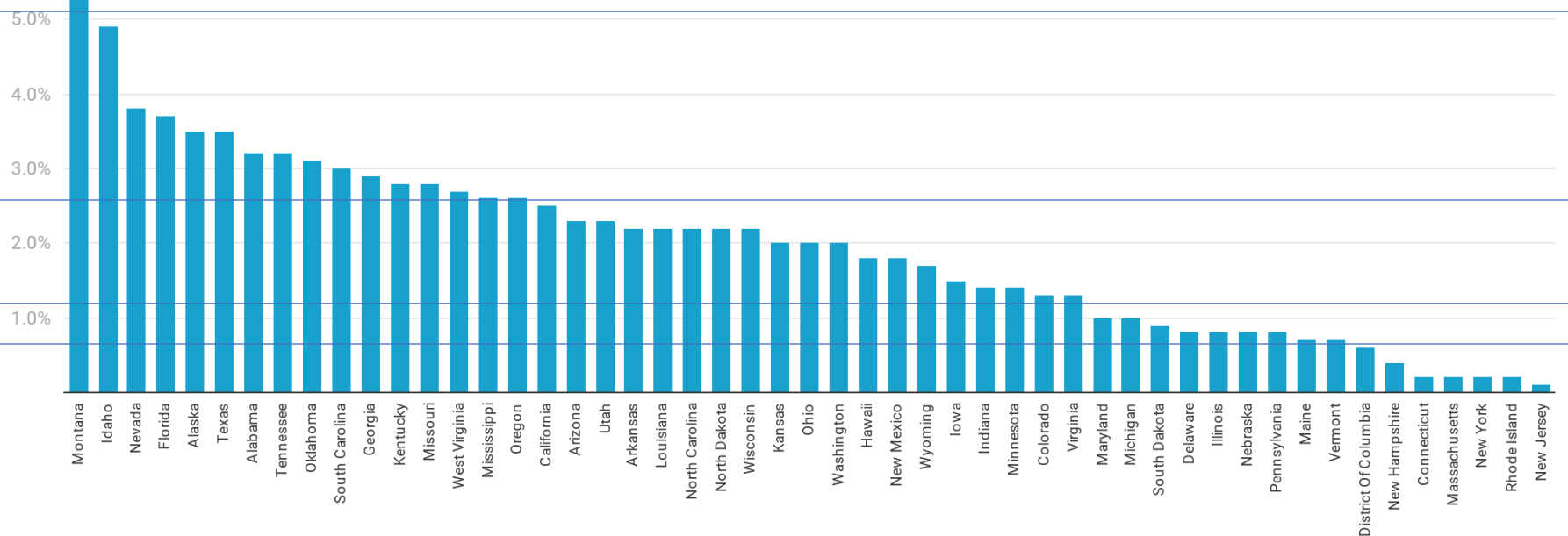
Trailing 5-Day Moving Average, As of July 19

14 days to double

28 days

56 days

112 days



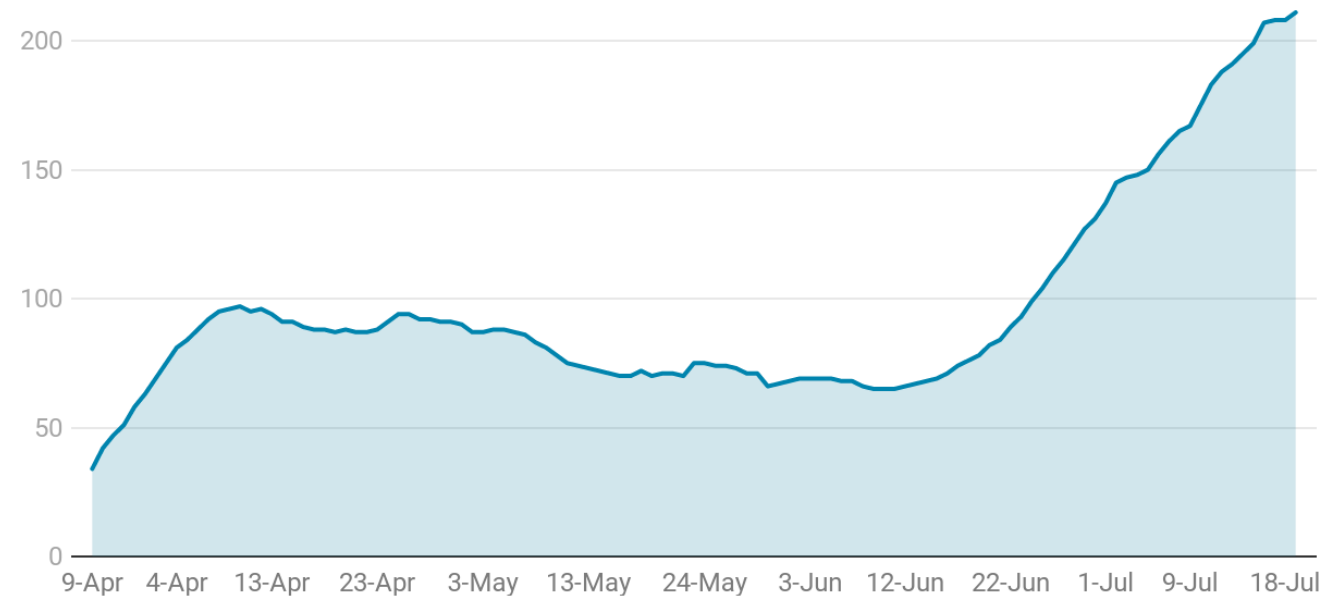
Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

The new daily infection rate may (hopefully) be stabilizing, after 5 weeks of accelerated growth

New Infections Per 1 Million Population - United States

Trailing 7-Day Moving Average, As of July 19



Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

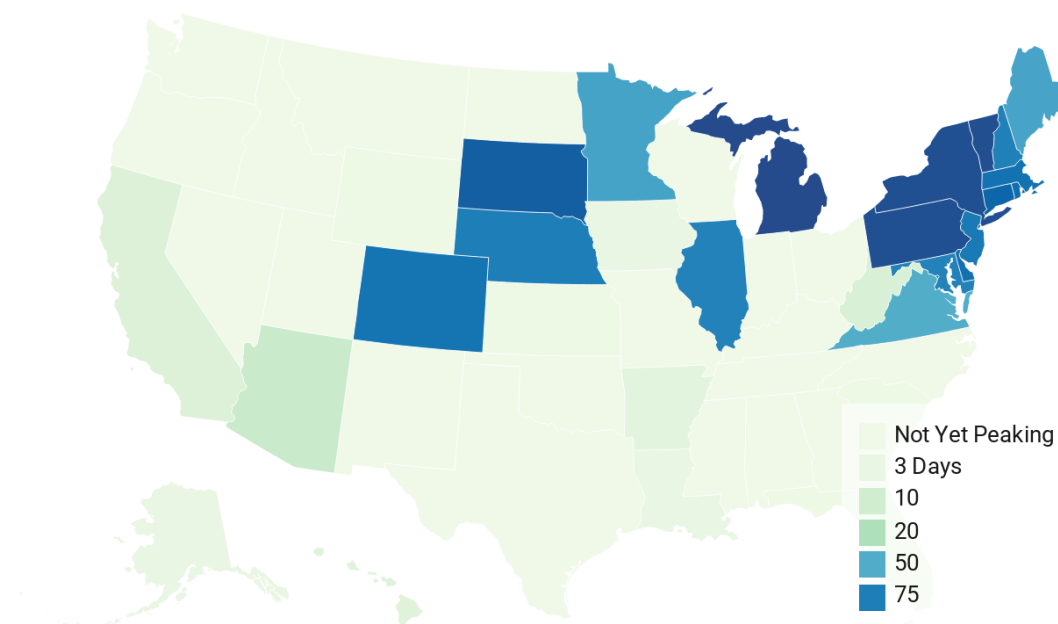
New Infections – Are we turning a corner? Several states moving past their peak

Are we turning a corner?

- Among recently hard –hit states:
 - Arizona's infection rate peaked 12 days ago
 - California: 7 days ago
 - Florida: 2 days ago
- New York and Pennsylvania now have gone 100 days, joining Vermont (101 days) and Michigan (103 days)
- States that haven't peaked and have very high rates:
 - Alabama
 - Georgia
 - Idaho
 - Nevada
 - Tennessee
 - Texas

Days Since Peak New Infections Per Capita

As of July 19



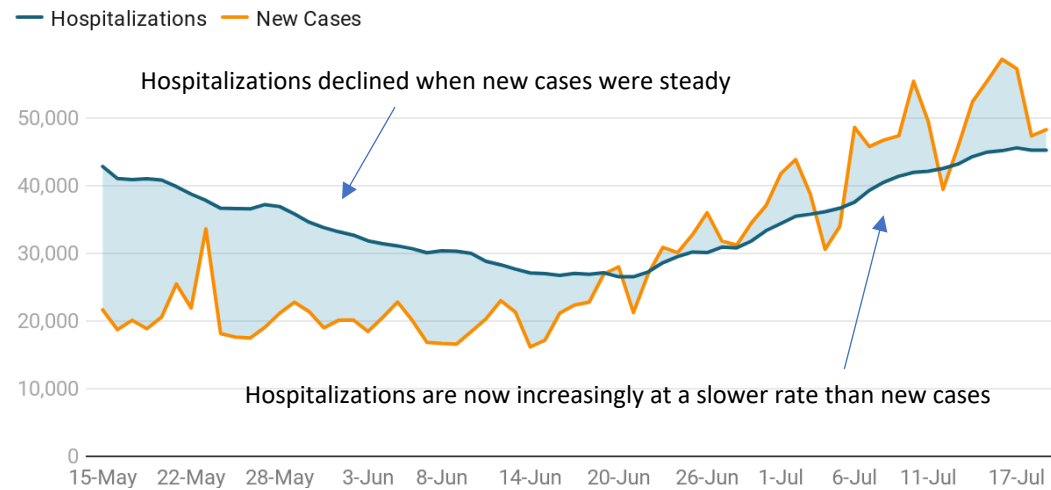
Health Industry Advisor LLC analysis

Map: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Hospitalizations and case severity appear to be stabilizing

Hospitalizations v. New Cases

As of July 19



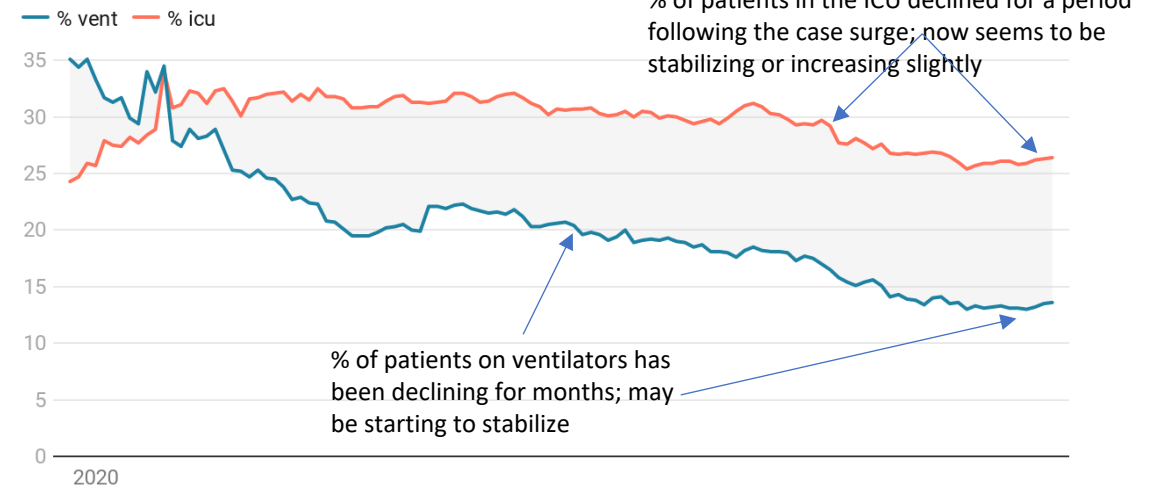
Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

Data excludes: Alabama, Alaska, Florida, Hawaii, Idaho, Kansas, Nebraska and Tennessee – data either not reported or not consistently reported

Severity of Hospitalized Patients

% of patients on ventilators and in the ICU, As of July 19



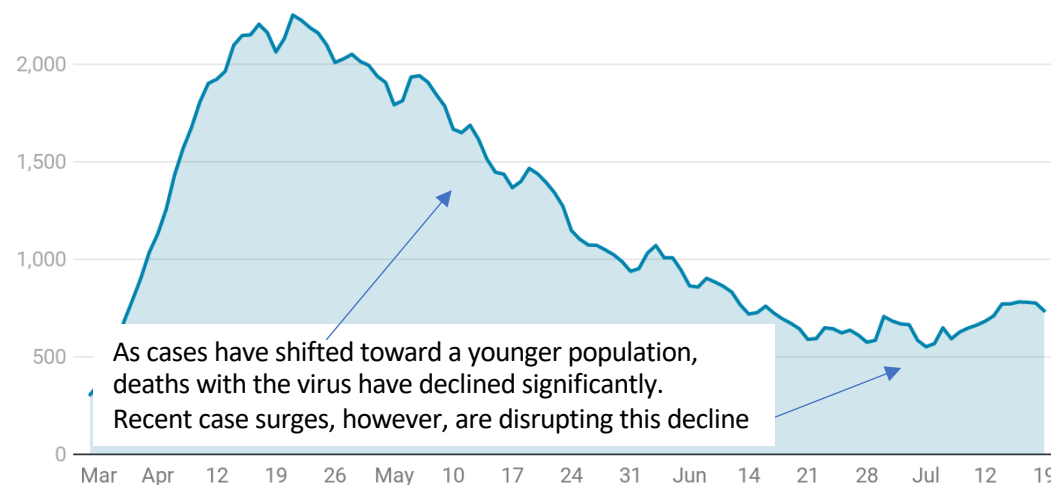
Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

Deaths are declining again; Recoveries outnumber deaths by >12:1

Deaths Recorded With Coronavirus in the U.S.

Trailing 7-Day Moving Average, As of July 19

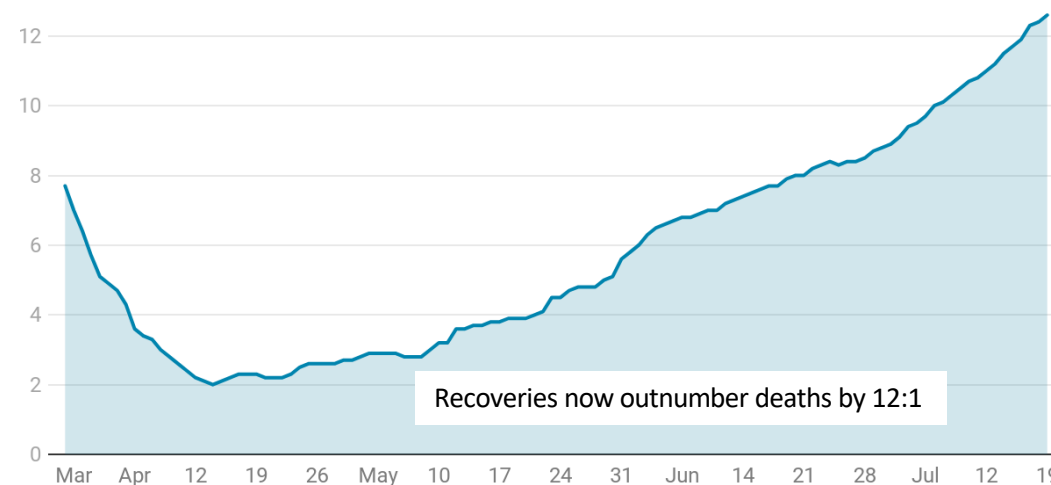


Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Recoveries: Deaths - United States

As of July 19



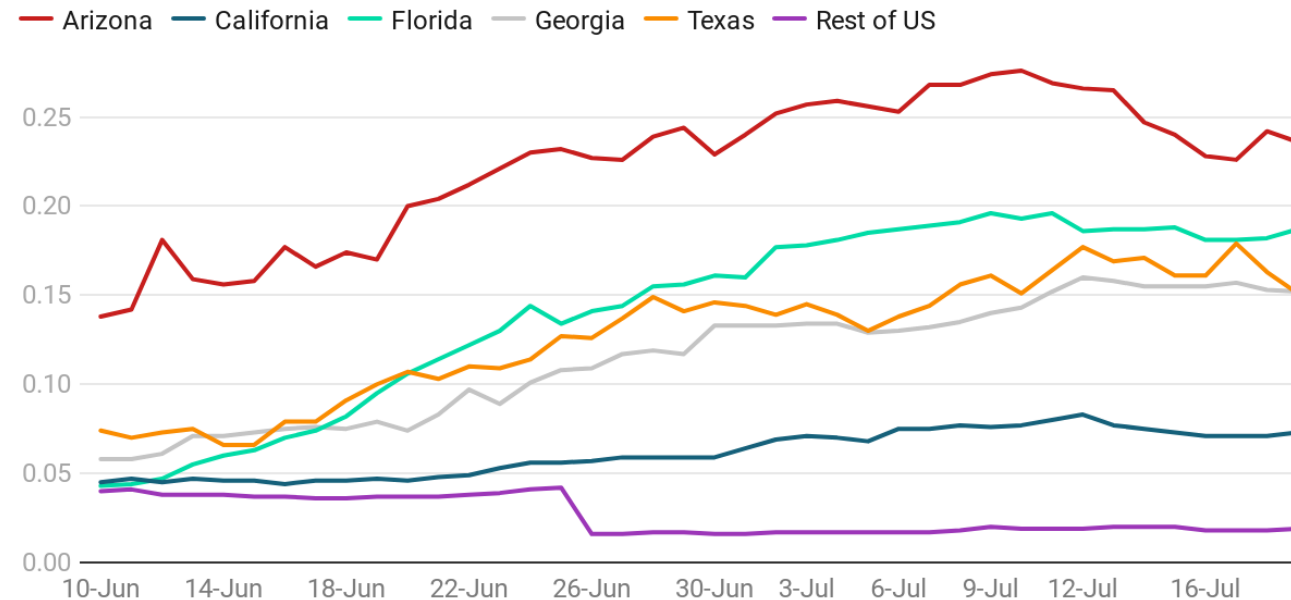
Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Test-positive rates in hard-hit states are stabilizing or declining – a necessary but, insufficient condition for achieving containment

Test Positive Rate

Trailing 7-Day Moving Average, As of July 19



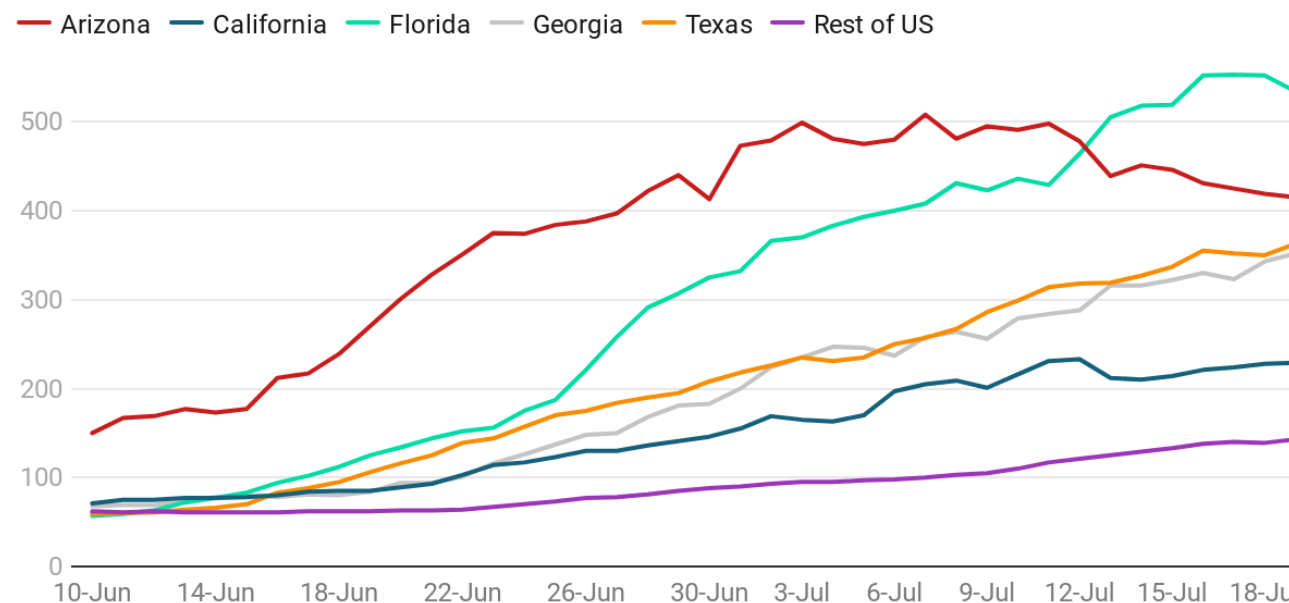
Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

Progress in Arizona and Florida; not so much in Texas or Georgia

New Daily Infections / 1 Million Population

Trailing 7-Day Moving Average, As of July 19



Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Arizona, California, Florida, Georgia and Texas

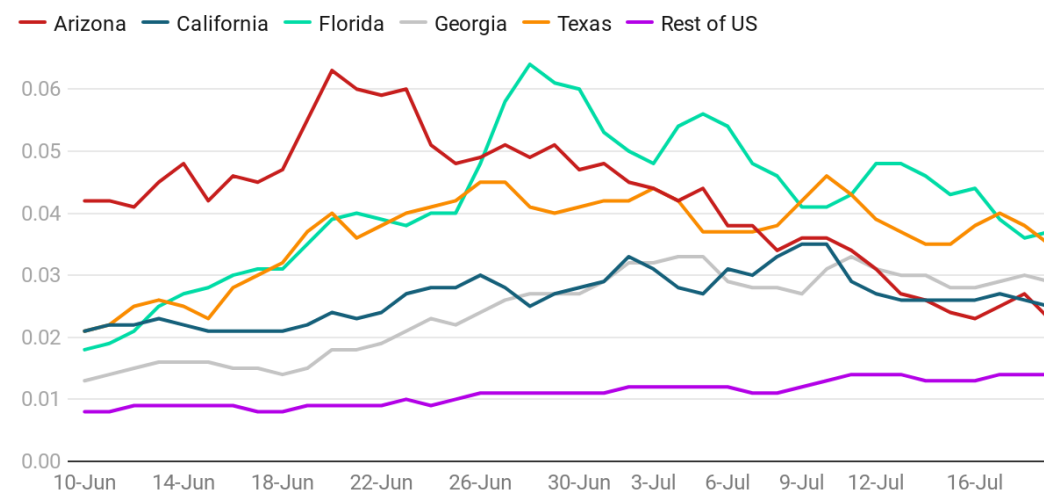
Case growth has been declining in Arizona and Florida for 3-4 weeks and, now, in California and Texas for the past week

Comment:

- The high transmission rate of this virus results in long periods of exponential case growth
- One key to observing this is in the rate of daily case growth on a % of total cases
- A decreasing rate often occurs prior to observing a decline in new daily cases – thus, it can serve as a “leading indicator”
- “Containment” cannot occur until after this rate of daily case growth begins to slow

Daily Change % in Total Cases

Trailing 7-Day Moving Average



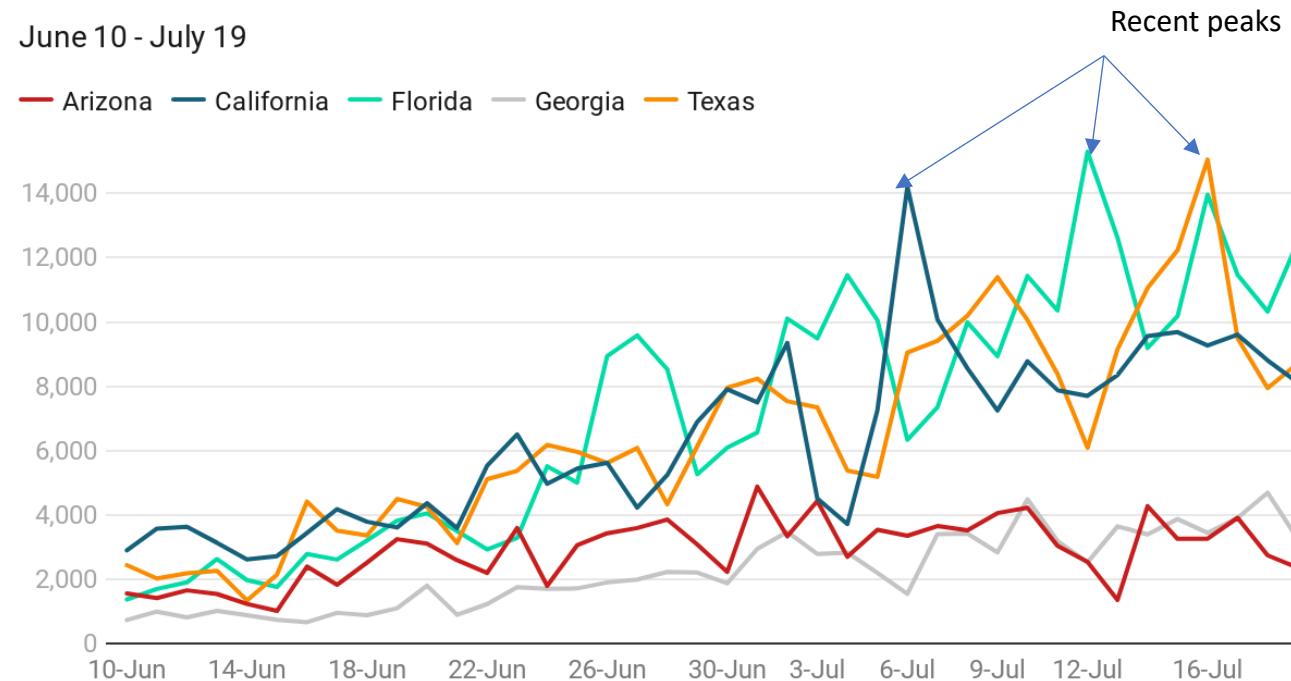
Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

New Daily Cases

June 10 - July 19

— Arizona — California — Florida — Georgia — Texas



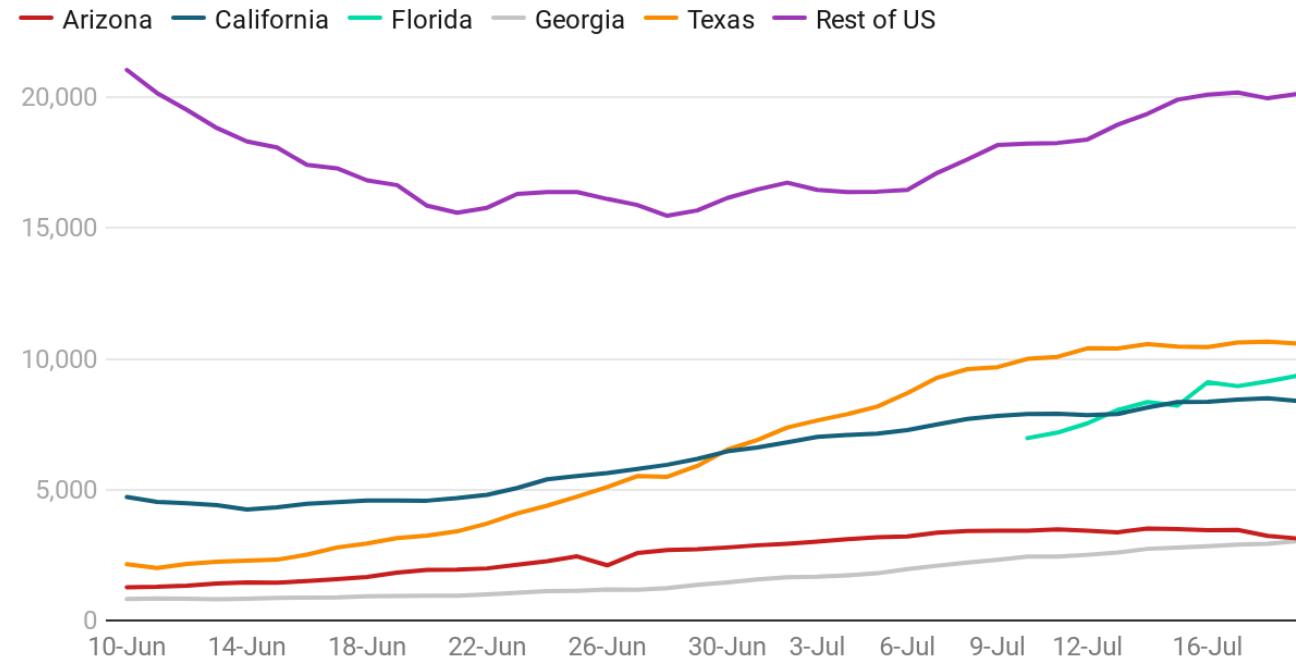
Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Arizona, California, Florida, Georgia and Texas

Hospitalizations: Is the experience of the past few days an indication that rates are stabilizing?

Hospitalized COVID-19 Patients



Health Industry Advisor LLC analysis, As of July 19

Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Worldwide Statistical Summary

Top 30 Countries By Total Cases
As of July 19

Country	Total Cases	Rank	Cases per 1M Population	Rank2	Deaths	Rank3	Death Rate	Rank4	Deaths per 1 Million Population	Rank5	5-day Moving Average Case Growth Rate	Rank6	Tests per 1M Population - Past 7 Days	Rank7	New Daily Infections Per 1M Population (7-Day M.A.)	Rank8
USA	3,898,550	(1)	11,774	(3)	143,289	(1)	3.7%	(17)	432.8	(7)	1.9%	(10)	2,532	(3)	209.1	(2)
Brazil	2,099,896	(2)	9,876	(5)	79,533	(2)	3.8%	(15)	374.0	(9)	1.7%	(11)	227	(23)	157.0	(3)
India	1,118,107	(3)	810	(27)	27,503	(8)	2.5%	(22)	19.9	(26)	3.6%	(3)	228	(22)	24.7	(17)
Russia	771,546	(4)	5,287	(10)	12,342	(11)	1.6%	(25)	84.6	(18)	0.8%	(18)	1,919	(4)	43.4	(14)
South Africa	364,328	(5)	6,139	(9)	5,033	(20)	1.4%	(26)	84.8	(17)	4.1%	(2)	763	(12)	212.0	(1)
Peru	353,590	(6)	10,717	(4)	13,187	(10)	3.7%	(16)	399.7	(8)	1.2%	(14)	595	(15)	118.0	(7)
Mexico	338,913	(7)	2,627	(20)	38,888	(4)	11.5%	(4)	301.5	(10)	2.2%	(8)	101	(26)	48.3	(13)
Chile	330,930	(8)	17,304	(2)	8,503	(14)	2.6%	(20)	444.6	(6)	0.7%	(20)	829	(11)	118.7	(6)
Spain	307,335	(9)	6,573	(8)	28,420	(7)	9.2%	(5)	607.8	(2)	0.2%	(26)	892	(9)	19.4	(18)
UK	294,792	(10)	4,341	(11)	45,300	(3)	15.4%	(2)	667.1	(1)	0.2%	(27)	2,739	(1)	10.9	(22)
Iran	273,788	(11)	3,258	(16)	14,188	(9)	5.2%	(10)	168.8	(13)	0.9%	(17)	300	(19)	28.0	(16)
Pakistan	263,496	(12)	1,192	(25)	5,568	(17)	2.1%	(23)	25.2	(24)	0.8%	(19)	102	(25)	9.4	(24)
Saudi Arabia	250,920	(13)	7,202	(7)	2,486	(26)	1.0%	(28)	71.4	(19)	1.1%	(15)	1,638	(5)	76.5	(10)
Italy	244,434	(14)	4,043	(13)	35,045	(5)	14.3%	(3)	579.7	(3)	0.1%	(29)	708	(13)	3.2	(29)
Turkey	219,641	(15)	2,603	(21)	5,491	(18)	2.5%	(21)	65.1	(20)	0.4%	(21)	503	(16)	11.3	(21)
Bangladesh	204,525	(16)	1,241	(24)	2,618	(25)	1.3%	(27)	15.9	(28)	1.5%	(12)	73	(28)	18.0	(19)
Germany	202,845	(17)	2,421	(22)	9,163	(12)	4.5%	(13)	109.3	(15)	0.2%	(28)	866	(10)	4.9	(28)
Colombia	197,278	(18)	3,875	(14)	6,736	(15)	3.4%	(18)	132.3	(14)	4.3%	(1)	501	(17)	131.4	(5)
France	174,674	(19)	2,676	(19)	30,152	(6)	17.3%	(1)	461.9	(5)	0.3%	(25)	2,700	(2)	8.6	(25)
Argentina	126,755	(20)	2,803	(18)	2,260	(27)	1.8%	(24)	50.0	(22)	3.5%	(4)	236	(21)	84.0	(9)
Canada	110,338	(21)	2,922	(17)	8,852	(13)	8.0%	(6)	234.4	(12)	0.3%	(23)	1,162	(7)	10.4	(23)
Qatar	106,648	(22)	37,983	(1)	157	(30)	0.1%	(30)	55.9	(21)	0.4%	(22)	1,476	(6)	155.2	(4)
Iraq	92,530	(23)	2,298	(23)	3,781	(24)	4.1%	(14)	93.9	(16)	2.5%	(7)	430	(18)	53.3	(11)
Egypt	87,775	(24)	857	(26)	4,302	(22)	4.9%	(11)	42.0	(23)	0.9%	(16)	(0)	(30)	8.0	(26)
Indonesia	86,521	(25)	316	(29)	4,143	(23)	4.8%	(12)	15.1	(29)	1.9%	(9)	84	(27)	5.6	(27)
China	83,660	(26)	58	(30)	4,634	(21)	5.5%	(9)	3.2	(30)	0.0%	(30)	-	(29)	0.0	(30)
Sweden	77,281	(27)	7,650	(6)	5,619	(16)	7.3%	(7)	556.2	(4)	0.3%	(24)	1,156	(8)	33.7	(15)
Ecuador	74,013	(28)	4,192	(12)	5,313	(19)	7.2%	(8)	300.9	(11)	1.2%	(13)	175	(24)	49.7	(12)
Kazakhstan	70,339	(29)	3,744	(15)	375	(29)	0.5%	(29)	20.0	(25)	2.6%	(6)	626	(14)	91.9	(8)
Philippines	67,377	(30)	614	(28)	1,831	(28)	2.7%	(19)	16.7	(27)	3.2%	(5)	237	(20)	17.1	(20)

State-By-State Statistical Summary (page 1 of 2)

As of July 19

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	67,011	(19)	13,667	(11)	1,287	(23)	1.9%	(32)	262	(22)	3.2%	(7)	2,157	(22)	391.1	(4)
Alaska	1,874	(49)	2,562	(48)	18	(51)	1.0%	(49)	25	(50)	3.5%	(6)	5,377	(1)	77.1	(37)
Arizona	143,624	(7)	19,732	(3)	2,761	(16)	1.9%	(31)	379	(15)	2.3%	(18)	1,763	(32)	415.2	(3)
Arkansas	33,228	(31)	11,011	(22)	357	(37)	1.1%	(48)	118	(39)	2.2%	(21)	1,741	(33)	230.1	(12)
California	391,084	(2)	9,898	(24)	7,713	(4)	2.0%	(30)	195	(28)	2.5%	(17)	3,183	(7)	229.2	(13)
Colorado	40,142	(26)	6,971	(36)	1,752	(18)	4.4%	(12)	304	(16)	1.3%	(35)	1,078	(49)	80.1	(36)
Connecticut	47,893	(22)	13,433	(14)	4,396	(9)	9.2%	(1)	1,233	(3)	0.2%	(50)	2,875	(9)	24.3	(47)
Delaware	13,519	(40)	13,883	(10)	523	(34)	3.9%	(16)	537	(12)	0.8%	(39)	2,287	(18)	104.9	(29)
District Of Columbia	11,261	(41)	15,956	(8)	578	(32)	5.1%	(9)	819	(6)	0.6%	(45)	4,227	(2)	83.8	(34)
Florida	350,047	(3)	16,298	(7)	4,985	(8)	1.4%	(42)	232	(25)	3.7%	(4)	2,851	(10)	533.7	(1)
Georgia	143,123	(8)	13,480	(13)	3,173	(14)	2.2%	(26)	299	(17)	2.9%	(11)	2,313	(17)	352.5	(8)
Hawaii	1,381	(50)	975	(51)	24	(50)	1.7%	(37)	17	(51)	1.8%	(29)	1,081	(48)	16.2	(48)
Idaho	14,873	(38)	8,299	(29)	119	(42)	0.8%	(50)	66	(45)	4.9%	(2)	1,668	(39)	316.6	(10)
Illinois	162,750	(6)	12,843	(16)	7,488	(5)	4.6%	(11)	591	(9)	0.8%	(42)	2,949	(8)	86.8	(33)
Indiana	56,571	(20)	8,403	(28)	2,822	(15)	5.0%	(10)	419	(14)	1.4%	(32)	1,321	(45)	105.2	(28)
Iowa	38,724	(27)	12,274	(17)	794	(29)	2.1%	(27)	252	(23)	1.5%	(31)	1,860	(30)	152.2	(18)
Kansas	22,356	(35)	7,674	(34)	307	(38)	1.4%	(43)	105	(41)	2.0%	(26)	1,548	(42)	156.7	(17)
Kentucky	23,161	(33)	5,184	(42)	670	(30)	2.9%	(24)	150	(33)	2.8%	(13)	1,664	(40)	120.6	(24)
Louisiana	91,706	(12)	19,727	(4)	3,545	(11)	3.9%	(17)	763	(7)	2.2%	(20)	4,127	(3)	417.4	(2)
Maine	3,687	(46)	2,743	(47)	117	(44)	3.2%	(22)	87	(43)	0.7%	(44)	1,607	(41)	15.7	(49)
Maryland	78,131	(14)	12,923	(15)	3,377	(12)	4.3%	(13)	559	(10)	1.0%	(36)	2,278	(19)	118.7	(25)
Massachusetts	113,534	(9)	16,337	(6)	8,431	(3)	7.4%	(5)	1,213	(4)	0.2%	(47)	1,707	(36)	39.8	(45)
Michigan	81,868	(13)	8,198	(31)	6,366	(7)	7.8%	(3)	637	(8)	1.0%	(37)	2,694	(11)	72.8	(38)
Minnesota	46,204	(23)	8,193	(32)	1,581	(20)	3.4%	(18)	280	(19)	1.4%	(33)	2,486	(13)	99.4	(32)
Mississippi	42,638	(24)	14,327	(9)	1,355	(22)	3.2%	(21)	455	(13)	2.6%	(16)	2,058	(24)	304.9	(11)

State-By-State Statistical Summary (page 2 of 2)

As of July 19

State	Total Cases	Rank	Cases per 1M Population	Rank2	Deaths	Rank3	Death Rate	Rank4	Deaths per 1 Million Population	Rank5	5-day Moving Average Case Growth Rate	Rank6	Tests per 1M Population Past 7 days	Rank7	New Daily Cases Per 1M Population (5-Day M.A.)	Rank8
Missouri	35,218	(29)	5,738	(41)	1,165	(24)	3.3%	(20)	190	(30)	2.8%	(12)	1,712	(35)	142.9	(20)
Montana	2,533	(47)	2,370	(49)	37	(48)	1.5%	(41)	35	(49)	5.3%	(1)	2,473	(14)	103.6	(31)
Nebraska	22,583	(34)	11,674	(19)	301	(39)	1.3%	(44)	156	(32)	0.8%	(40)	1,794	(31)	104.2	(30)
Nevada	35,765	(28)	11,611	(20)	647	(31)	1.8%	(34)	210	(27)	3.8%	(3)	1,959	(27)	374.8	(5)
New Hampshire	6,203	(43)	4,562	(43)	398	(36)	6.4%	(7)	293	(18)	0.4%	(46)	1,049	(50)	15.7	(50)
New Jersey	182,983	(5)	20,601	(2)	15,781	(2)	8.6%	(2)	1,777	(1)	0.1%	(51)	1,697	(37)	33.3	(46)
New Mexico	16,971	(37)	8,094	(33)	571	(33)	3.4%	(19)	272	(20)	1.8%	(28)	3,400	(5)	132.4	(21)
New York	434,164	(1)	22,318	(1)	32,570	(1)	7.5%	(4)	1,674	(2)	0.2%	(49)	3,248	(6)	47.9	(44)
North Carolina	99,816	(11)	9,517	(25)	1,667	(19)	1.7%	(38)	159	(31)	2.2%	(24)	2,660	(12)	191.9	(15)
North Dakota	5,019	(45)	6,586	(37)	92	(46)	1.8%	(33)	121	(38)	2.2%	(22)	2,132	(23)	128.4	(22)
Ohio	74,966	(17)	6,413	(38)	3,178	(13)	4.2%	(14)	272	(21)	2.0%	(27)	1,913	(29)	114.1	(26)
Oklahoma	25,265	(32)	6,385	(39)	451	(35)	1.8%	(35)	114	(40)	3.1%	(9)	2,010	(26)	181.6	(16)
Oregon	14,579	(39)	3,457	(45)	260	(40)	1.8%	(36)	62	(46)	2.6%	(15)	1,335	(44)	81.6	(35)
Pennsylvania	105,384	(10)	8,232	(30)	7,084	(6)	6.7%	(6)	553	(11)	0.8%	(41)	1,150	(47)	62.4	(43)
Rhode Island	17,793	(36)	16,796	(5)	990	(26)	5.6%	(8)	935	(5)	0.2%	(48)	1,692	(38)	64.9	(41)
South Carolina	69,986	(18)	13,593	(12)	1,155	(25)	1.7%	(39)	224	(26)	3.0%	(10)	2,355	(15)	370.1	(6)
South Dakota	7,906	(42)	8,937	(27)	118	(43)	1.5%	(40)	133	(36)	0.9%	(38)	1,208	(46)	65.7	(39)
Tennessee	78,115	(15)	11,432	(21)	843	(28)	1.1%	(47)	123	(37)	3.2%	(8)	3,748	(4)	337.7	(9)
Texas	339,210	(4)	11,699	(18)	4,063	(10)	1.2%	(45)	140	(35)	3.5%	(5)	2,166	(21)	362.9	(7)
Utah	34,117	(30)	10,642	(23)	243	(41)	0.7%	(51)	76	(44)	2.3%	(19)	2,217	(20)	206.4	(14)
Vermont	1,350	(51)	2,163	(50)	56	(47)	4.1%	(15)	90	(42)	0.7%	(43)	1,522	(43)	12.4	(51)
Virginia	77,430	(16)	9,072	(26)	2,027	(17)	2.6%	(25)	237	(24)	1.3%	(34)	1,729	(34)	113.1	(27)
Washington	48,131	(21)	6,321	(40)	1,454	(21)	3.0%	(23)	191	(29)	2.0%	(25)	2,314	(16)	126.2	(23)
West Virginia	5,042	(44)	2,821	(46)	100	(45)	2.0%	(29)	56	(47)	2.7%	(14)	1,915	(28)	63.8	(42)
Wisconsin	42,315	(25)	7,268	(35)	844	(27)	2.0%	(28)	145	(34)	2.2%	(23)	2,052	(25)	144.0	(19)
Wyoming	2,126	(48)	3,673	(44)	25	(49)	1.2%	(46)	43	(48)	1.7%	(30)	1,015	(51)	65.2	(40)
United States	3,898,550		11,778		143,289		3.7%		433		1.9%		2,350		209.1	

The following data sources are accessed on a daily or weekly basis:

- The Atlantic's Covid Tracking Project: <https://covidtracking.com>
- Worldometers.info: <https://www.worldometers.info/coronavirus/>
- Centers for Disease Control, National, Regional, and State Level Outpatient Illness and Viral Surveillance
<https://gis.cdc.gov/grasp/fluview/fluportaldashboard.html>
- Centers for Disease Control, COVID-19 Laboratory-Confirmed Hospitalizations
https://gis.cdc.gov/grasp/COVIDNet/COVID19_5.html
- Centers for Disease Control, COVID Data Tracker <https://www.cdc.gov/covid-data-tracker/index.html#mobility>
- Institute for Health Metrics and Evaluation, COVID-19 estimate downloads <http://www.healthdata.org/covid/data-downloads>
- New York Times, Covid-19 data <https://github.com/nytimes/covid-19-data>
- COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University
<https://github.com/CSSEGISandData/COVID-19>