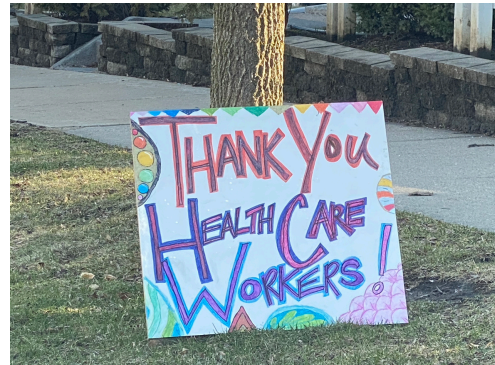
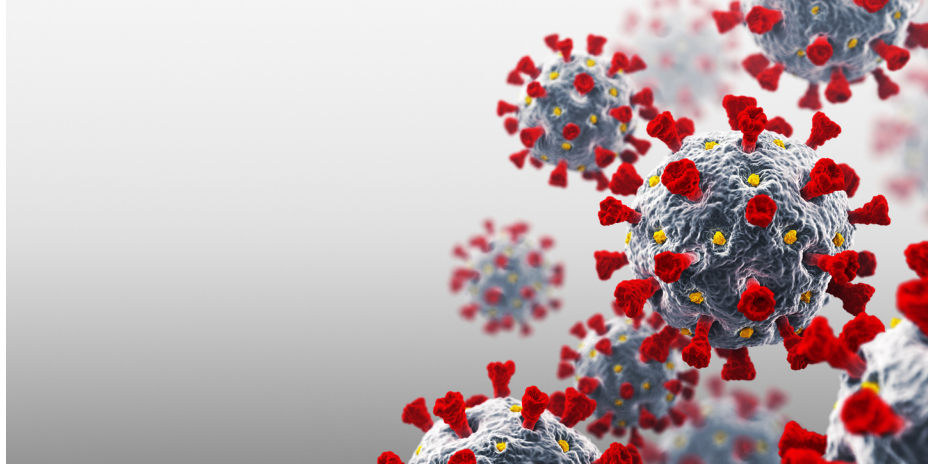
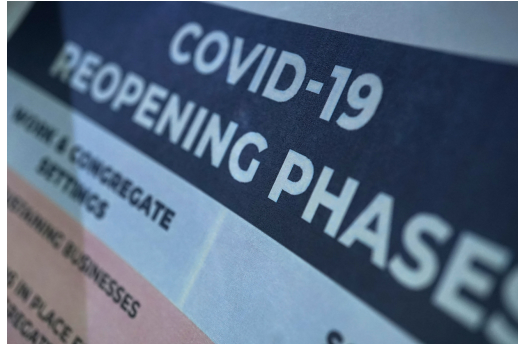




COVID-19 Report

Issue # 119

Wednesday, July 29, 2020

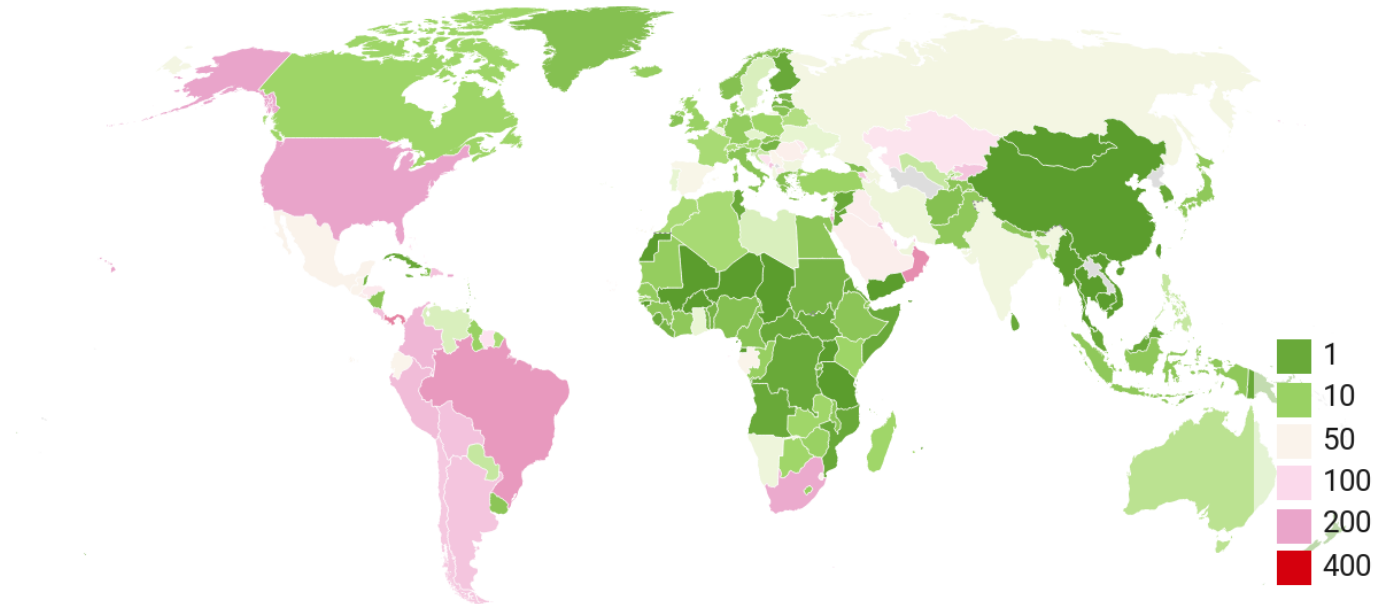
- Testing volume was off slightly on Tuesday v. Monday yet, is up 6% on a week-over-week basis.
- The test-positive rate continues to fall for the U.S overall and in most states: Thirty-five states reported a decline in this rate over the past two weeks. Of the 15 with an increased rate, just 5 are above the 10% CDC guideline
- For the first time, recoveries now exceed active cases in the U.S.
- New cases continued to decline: these are now down 3.5% on a week-over-week basis
- New infections per capita, on a 7-day moving average basis similarly continued to decline from a peak on July 19. While the infection rate increased over the past week in 29 states, it declined in 8 of the 11 states with the highest rates
- While recently hard-hit Arizona, Florida, and Texas are showing improvement, Georgia, Mississippi and Tennessee are of increasing concern due to high and increasing infection rates
- Hospital COVID-19 census declined again on Tuesday, continuing a week-long pattern. Last week, 3 of every hundred active cases were in the hospital; as of yesterday, only 2 in 100 are hospitalized
- While hospital census declined, the mix of ICU and ventilator patients increased. Still, fewer than 1 in 200 active cases are being treated in the ICU
- Tragically, more deaths were reported yesterday than for any other day in July and are on an increasing trend week-over-week. Unfortunately, this pattern could continue as a result of the surge in cases from mid-June to mid-July
- Updating where the United States ranks among the 213 countries that have reported at least one case of coronavirus:
 - Total cases and deaths with the virus: **1st**
 - Cases per capita: **10th**
 - Deaths per capita: **12th**; deaths per case: **71st**
 - Tests per capita (past week): **15th**
 - % Increase in cases (past week): **73rd**
 - New infections per capita (past week): **6th**
- Of the 2,902 metro areas in the United States reporting cases:
 - 1-in-5 have had fewer than 1 case for every 356 residents; another 1-in-5 have had at least 1 case for every 66 residents. Tiny Trousdale (TN) County (population 8,428) has the dubious distinction of having the highest number of cases per capita: nearly 20% of its residents have reported an infection
 - 139 areas have never averaged more than 50 new infections per capita in a given week; 155 areas have exceeded 1,000 at some point during the pandemic.
 - Over the past 7 days, 1-in-5 areas averaged fewer than 100 new daily infections per capita; another 1-in-5 averaged more than 500
 - Miami-Dade has the highest current rate of new infections per capita among large central metro areas - more than 2x that of #2, Davidson, TN. Hudson, NJ has the lowest rate among these cities, while previously hard-hit New York City, Arlington, VA and Wayne (Detroit), MI are among the ten lowest. (Our report lists the top twenty in each of 4 metro classifications: Large Central, Large Fringe, Medium and Small Metro Areas)

Worldwide

New infection rates remain highest in the United States, South Africa and in South American countries

New Infections / 1 Million Population

Trailing 7-Day Moving Average, As of July 28



Health Industry Advisor LLC analysis

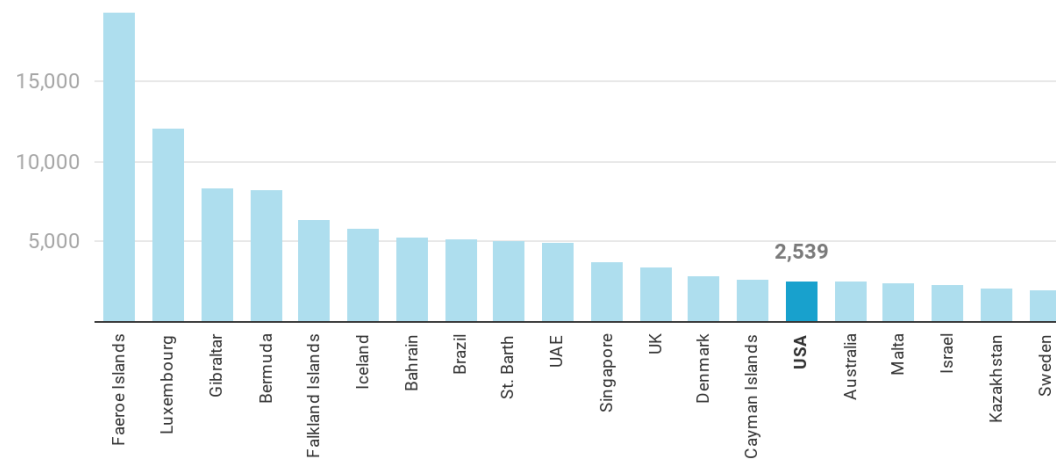
Map: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Countries With Most Total Cases

United States ranks 15th in current testing rate, 73rd in the rate of change in total cases, among 213 countries with COVID-19 cases

Daily Tests Per 1 Million Population

Among all 213 Countries with COVID-19 Cases, Trailing 7-Day Moving Average, As of July 28

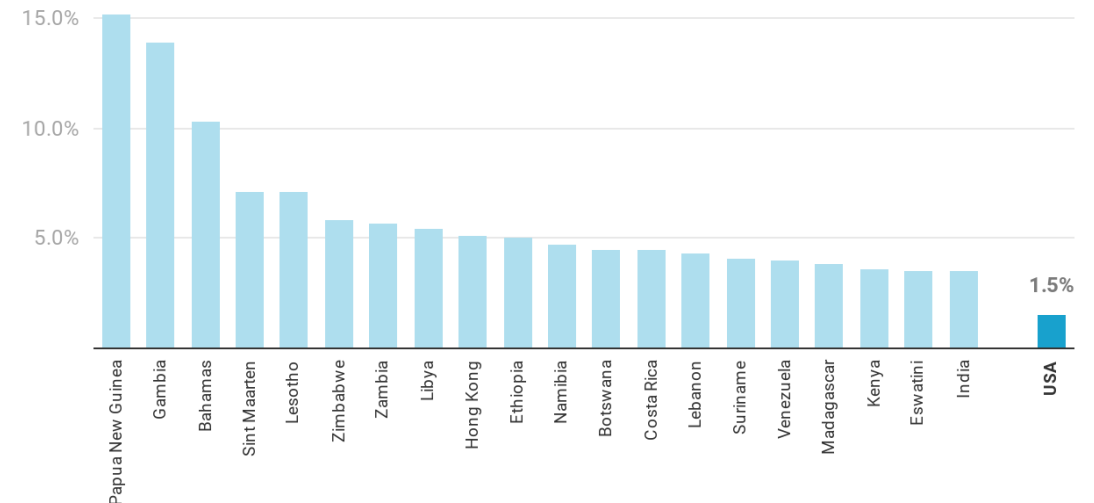


Health Industry Advisor LLC analysis

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

Daily Change (%) in Total Cases

Among all 213 Countries With COVID-19 Cases, Trailing 5-Day Moving Average, As of July 28

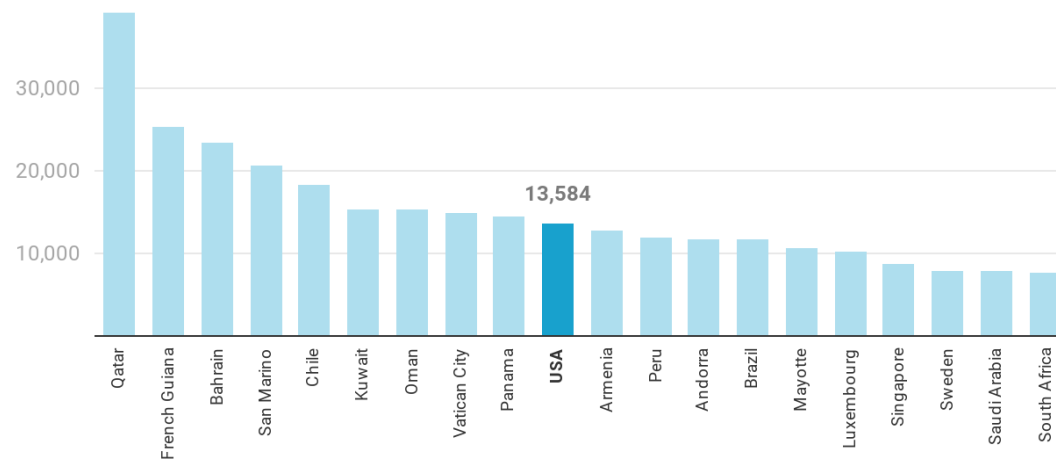


Health Industry Advisor LLC analysis

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

Total Cases / 1 Million Population

As of July 28

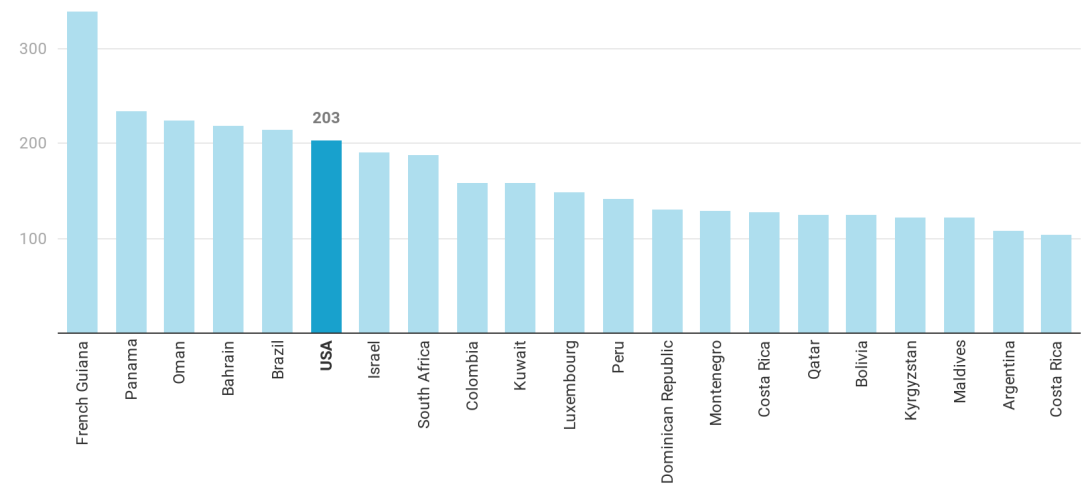


Health Industry Advisor LLC analysis

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

New Daily Infections / Million Population

Trailing 7-Day Moving Average, As of July 28

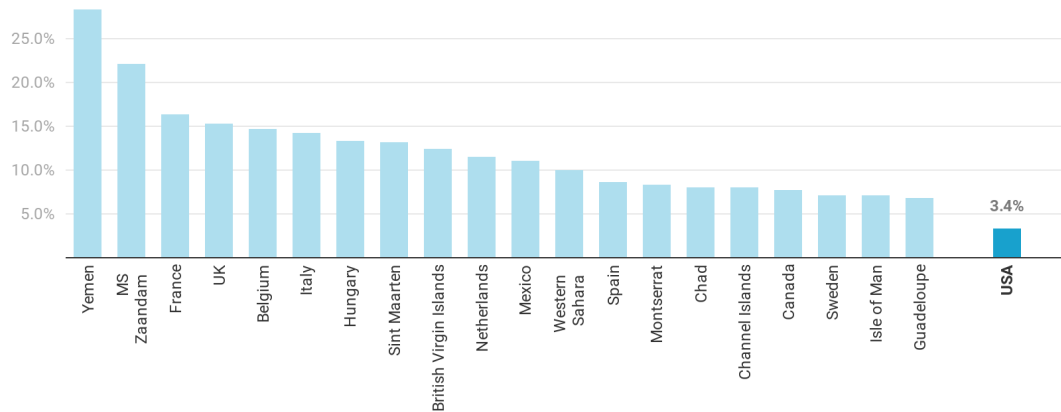


Health Industry Advisor LLC analysis

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

Deaths Per Case

As of July 28

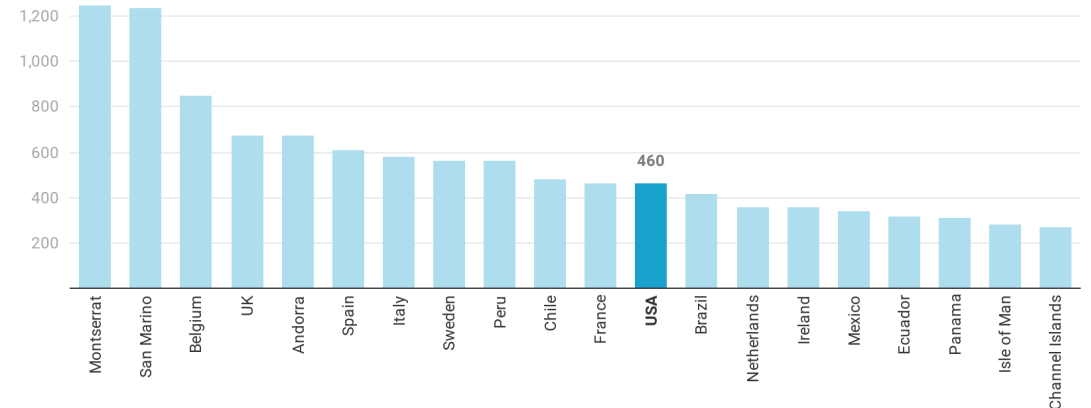


Health Industry Advisor LLC analysis

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

Deaths/ Million Population

As of July 28



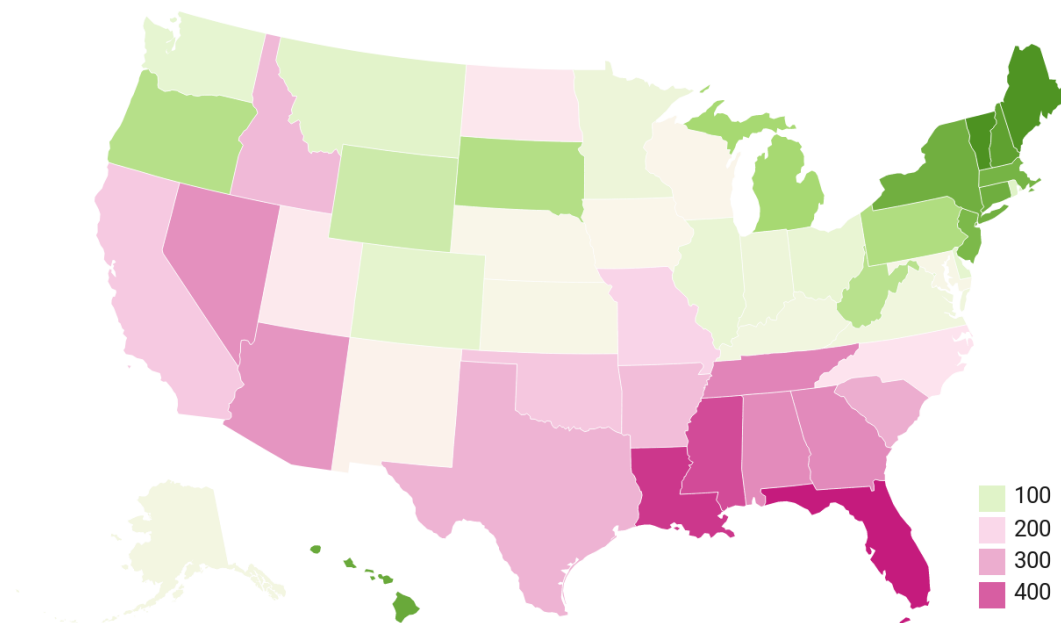
Health Industry Advisor LLC analysis

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

The new daily infection rates are found throughout most counties in the Southeast, scattered elsewhere except in the Northeast

New Daily Infections Per 1 Million Population

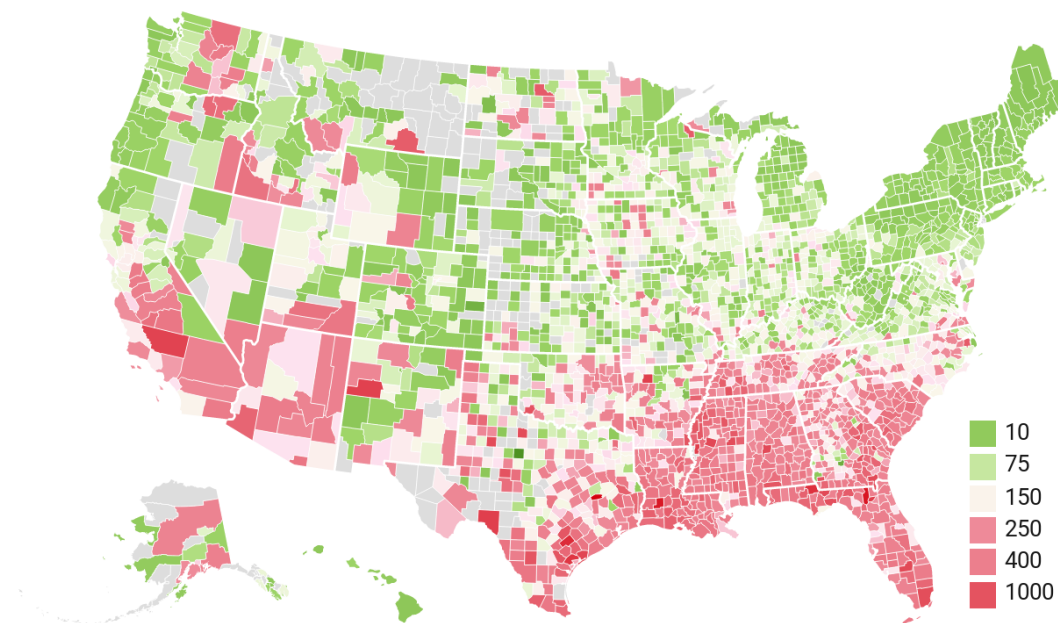
Trailing 7-Day Moving Average, As of July 28



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

New Daily Infections / Million Population

Trailing 7-Day Moving Average, As of July 27

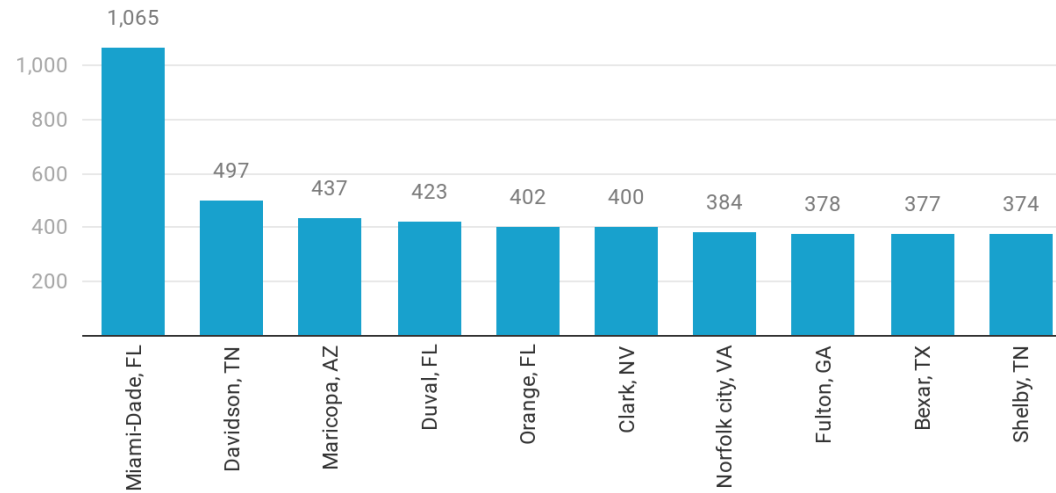


Map: Health Industry Advisor LLC • Created with Datawrapper

Large Central Metro Areas Highest and Lowest Current New Infection Rates

Net Infections / Million Population

Trailing 7-Day Moving Average, As of July 27

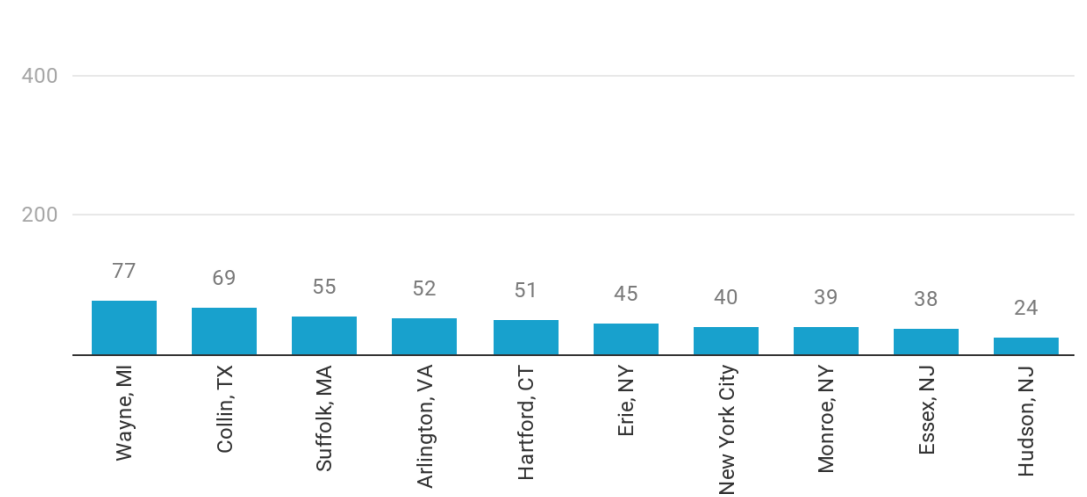


Large Central Metros with highest new infection rate

Chart: Health Industry Advisor LLC • Created with Datawrapper

Net Infections / Million Population

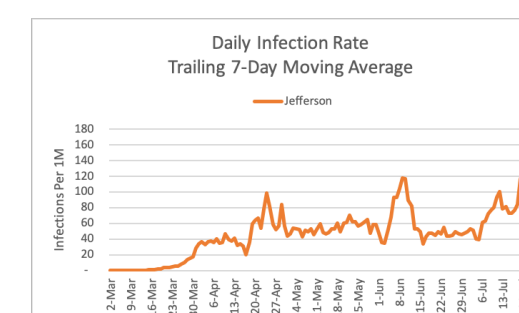
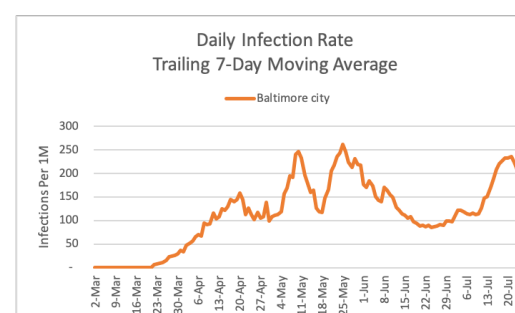
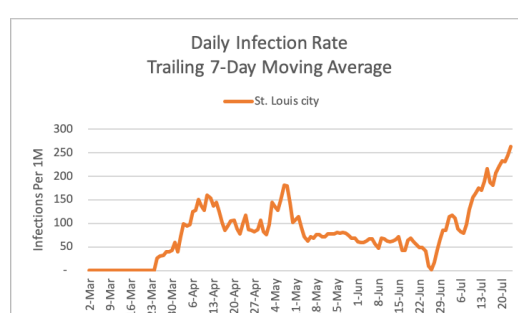
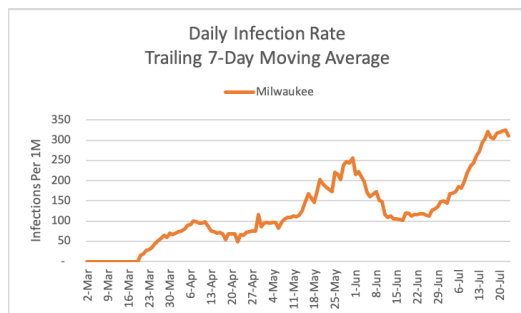
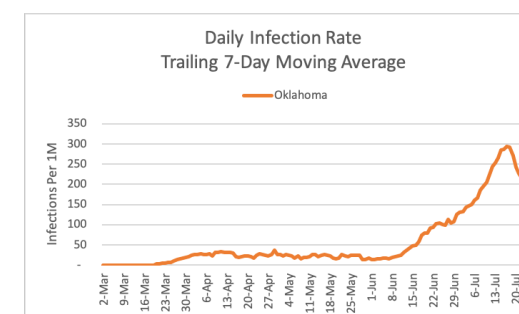
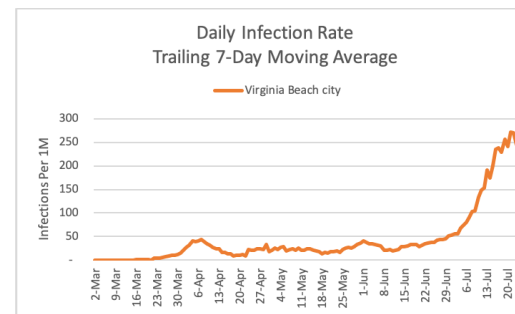
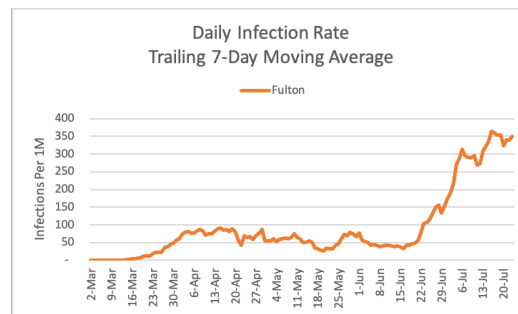
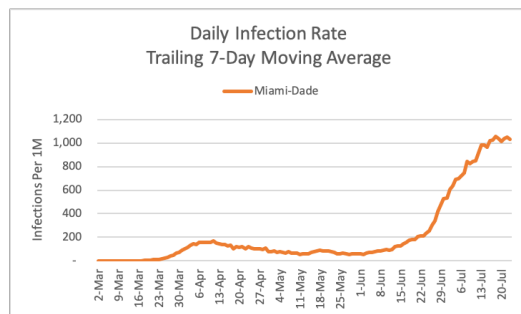
Trailing 7-Day Moving Average, As of July 27



Large Central Metros with lowest new infection rate

Chart: Health Industry Advisor LLC • Created with Datawrapper

Large Central Metro Areas with the highest rate of new infections per capita and that experienced a peak rate within past 3 days



Large Central Metro Areas Top 20, ranked by current new infection rate

Large Central Metro Areas

Ranked in Descending Order: New Daily Infections / Million

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
Miami-Dade	Florida	1	107,314	39,436	1,065	1,093	yes	1,404	516	1.3%
Davidson	Tennessee	1	20,154	30,225	497	671		188	282	0.9%
Maricopa	Arizona	1	109,988	25,314	437	649		1,807	416	1.6%
Duval	Florida	1	20,001	21,510	423	609		143	154	0.7%
Orange	Florida	1	27,392	20,258	402	623		173	128	0.6%
Clark	Nevada	1	37,492	17,002	400	486		606	275	1.6%
Norfolk city	Virginia	1	2,779	13,231	384	492		20	95	0.7%
Fulton	Georgia	1	16,073	15,786	378	390	yes	371	364	2.3%
Bexar	Texas	1	36,450	18,766	377	883		480	247	1.3%
Shelby	Tennessee	1	19,166	20,911	374	432		264	288	1.4%
Jefferson	Alabama	1	10,567	16,427	347	443		205	319	1.9%
Hillsborough	Florida	1	27,483	19,426	338	520		298	211	1.1%
Virginia Beach city	Virginia	1	3,742	8,509	332	332	yes	43	98	1.1%
Oklahoma	Oklahoma	1	8,019	10,329	316	316	yes	89	115	1.1%
Riverside	California	1	35,636	14,742	313	314		671	278	1.9%
Milwaukee	Wisconsin	1	18,302	19,752	313	344	yes	427	461	2.3%
St. Louis city	Missouri	1	4,042	13,782	290	290	yes	165	563	4.1%
Harris	Texas	1	66,195	14,245	280	355		1,100	237	1.7%
Dallas	Texas	1	47,239	18,152	272	437		607	233	1.3%
Baltimore city	Maryland	1	10,593	18,295	265	265	yes	401	693	3.8%

Trailing 7-Day Moving Average, As of July 27, 2020
Table: Health Industry Advisor LLC - Created with Datawrapper

Large Fringe Areas Top 20, ranked by current new infection rate

Large Fringe Metro Areas

Ranked in Descending Order: New Daily Infections / Million

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
Broward	Florida	2	50,784	26,228	724	772		607	313	1.2%
St. Charles	Louisiana	2	1,261	24,185	627	682		50	959	4.0%
Osceola	Florida	2	7,728	21,222	573	759		53	146	0.7%
Caldwell	Texas	2	999	24,103	545	800		19	458	1.9%
Smith	Tennessee	2	294	14,916	544	544	yes	2	101	0.7%
Tunica	Mississippi	2	184	18,747	539	611	yes	4	408	2.2%
St. James	Louisiana	2	591	28,393	501	700		30	1,441	5.1%
Sussex	Virginia	2	264	30,489	478	1,006		7	808	2.7%
Chilton	Alabama	2	629	14,410	458	517	yes	6	137	1.0%
St. Bernard	Louisiana	2	976	21,079	450	673		23	497	2.4%
Palm Beach	Florida	2	30,956	21,132	442	507		758	517	2.4%
Portsmouth city	Virginia	2	1,291	14,117	441	470	yes	21	230	1.6%
Crittenden	Arkansas	2	1,100	23,266	432	441	yes	16	338	1.5%
Chester	South Carolina	2	464	14,513	429	438	yes	8	250	1.7%
St. John the Baptist	Louisiana	2	1,291	30,284	429	1,052		88	2,064	6.8%
Tate	Mississippi	2	565	20,629	412	610		19	694	3.4%
Blount	Alabama	2	669	11,688	404	447	yes	1	17	0.1%
Wyandotte	Kansas	2	4,287	26,226	404	588		92	563	2.1%
Baker	Florida	2	310	12,138	403	447		4	157	1.3%
Rutherford	Tennessee	2	5,514	17,294	401	404		48	151	0.9%

Trailing 7-Day Moving Average, As of July 27, 2020
Table: Health Industry Advisor LLC - Created with Datawrapper

Medium Metro Areas

Top 20, ranked by current new infection rate

Medium Metro Areas

Ranked in Descending Order: New Daily Infections / Million

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
Kern	California	3	17,394	20,112	1,206	1,294	yes	123	142	0.7%
Gadsden	Florida	3	1,196	27,551	1,129	1,251	yes	13	299	1.1%
Wakulla	Florida	3	515	17,284	1,045	1,093	yes	1	34	0.2%
Acadia	Louisiana	3	2,215	36,237	867	1,192		63	1,031	2.8%
Pointe Coupee	Louisiana	3	646	29,655	826	833		29	1,331	4.5%
Vermilion	Louisiana	3	1,142	19,301	802	802	yes	14	237	1.2%
Iberia	Louisiana	3	2,057	29,452	790	863		58	830	2.8%
St. Helena	Louisiana	3	224	22,161	777	806		1	99	0.4%
Nueces	Texas	3	10,647	29,943	736	1,051		148	416	1.4%
Gilchrist	Florida	3	315	18,526	714	924		1	59	0.3%
Jefferson	Florida	3	177	13,648	705	705	yes	5	386	2.8%
Cameron	Texas	3	8,201	19,524	676	798		272	648	3.3%
Santa Rosa	Florida	3	2,789	16,107	671	671	yes	19	110	0.7%
Iberville	Louisiana	3	1,047	36,232	623	831		46	1,592	4.4%
Canyon	Idaho	3	4,255	19,336	609	787		30	136	0.7%
Escambia	Florida	3	7,158	24,026	603	909		82	275	1.1%
Hinds	Mississippi	3	4,624	20,316	586	611	yes	82	360	1.8%
San Patricio	Texas	3	666	10,070	570	570	yes	14	212	2.1%
Owyhee	Idaho	3	193	16,737	570	731		0	0	0.0%
Burke	Georgia	3	339	15,354	563	563	yes	7	317	2.1%

Trailing 7-Day Moving Average, As of July 27, 2020
Table: Health Industry Advisor LLC - Created with Datawrapper

Small Metro Areas Top 20, ranked by current new infection rate

Small Metro Areas

Ranked in Descending Order: New Daily Infections / Million

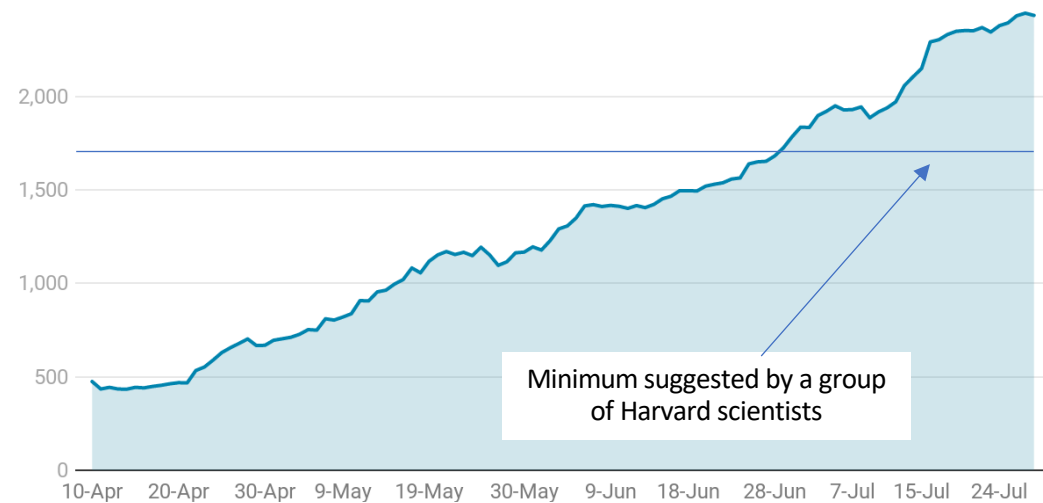
County	State	2013 CDC Urban / Rural Classification	Total Cases	Cases Per 1M	Daily Inf Rate (Last 7-Day MA)	Peak Daily Inf Rate (Trailing 7-Day MA)	Highest Occured in Past 3 Days?	Total Deaths	Deaths Per 1M	Deaths / Case
Calcasieu	Louisiana	4	5,626	28,249	821	893		107	537	1.9%
Hamblen	Tennessee	4	1,008	15,878	783	783	yes	10	158	1.0%
Victoria	Texas	4	2,964	32,865	775	1,356		32	355	1.1%
Gulf	Florida	4	249	18,957	772	1,218		0	0	0.0%
Yuma	Arizona	4	10,446	51,404	751	1,092		232	1,142	2.2%
Perry	Mississippi	4	179	15,143	749	786	yes	7	592	3.9%
Bay	Florida	4	3,026	16,706	726	797	yes	15	83	0.5%
Goliad	Texas	4	68	9,099	707	707	yes	1	134	1.5%
Cameron	Louisiana	4	157	22,639	659	886		0	0	0.0%
Ector	Texas	4	3,095	19,455	621	662		42	264	1.4%
Tom Green	Texas	4	2,046	18,072	613	1,017		19	168	0.9%
Kings	California	4	3,966	29,310	600	788		49	362	1.2%
Whitfield	Georgia	4	2,726	26,513	595	681		23	224	0.8%
Crockett	Tennessee	4	162	11,499	578	578	yes	3	213	1.9%
Lowndes	Georgia	4	2,668	24,224	545	655		25	227	0.9%
Grant	Louisiana	4	244	12,531	521	572	yes	3	154	1.2%
Jasper	South Carolina	4	440	15,882	521	521	yes	8	289	1.8%
Lafourche	Louisiana	4	2,393	24,863	517	643		95	987	4.0%
Terrebonne	Louisiana	4	2,519	23,056	516	635		72	659	2.9%
Walton	Florida	4	1,066	15,418	504	550	yes	12	174	1.1%

Trailing 7-Day Moving Average, As of July 27, 2020
Table: Health Industry Advisor LLC - Created with Datawrapper

Testing volume was lower on Tuesday yet, is up 6% week-over-week; test-positive rate held steady day-over-day and is at lowest since July 7 on a week-over-week basis

Daily Tests Per 1 Million - United States

Trailing 7-Day Moving Average, As of July 28

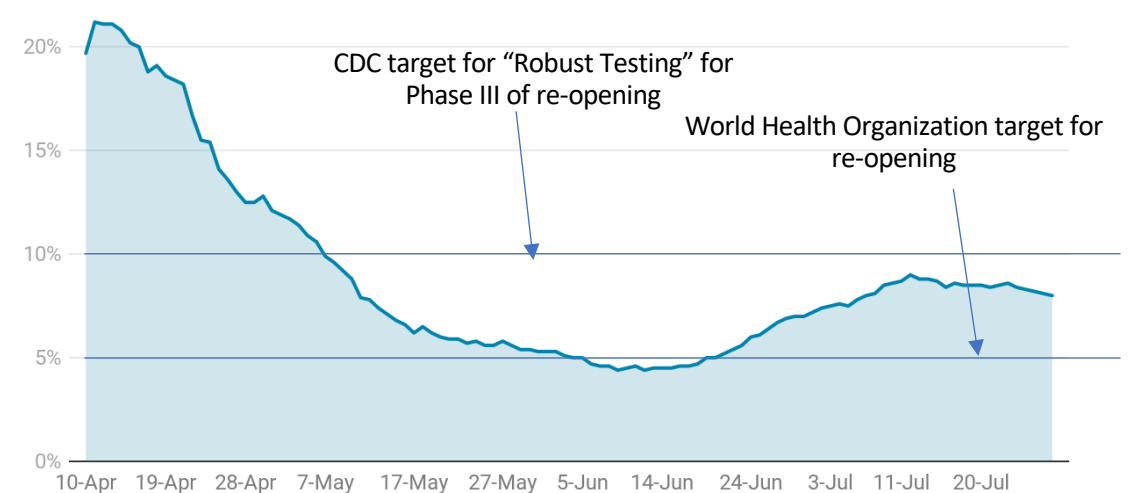


Health Industry Advisor LLC analysis

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 28



Health Industry Advisor LLC analysis

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

State-By-State

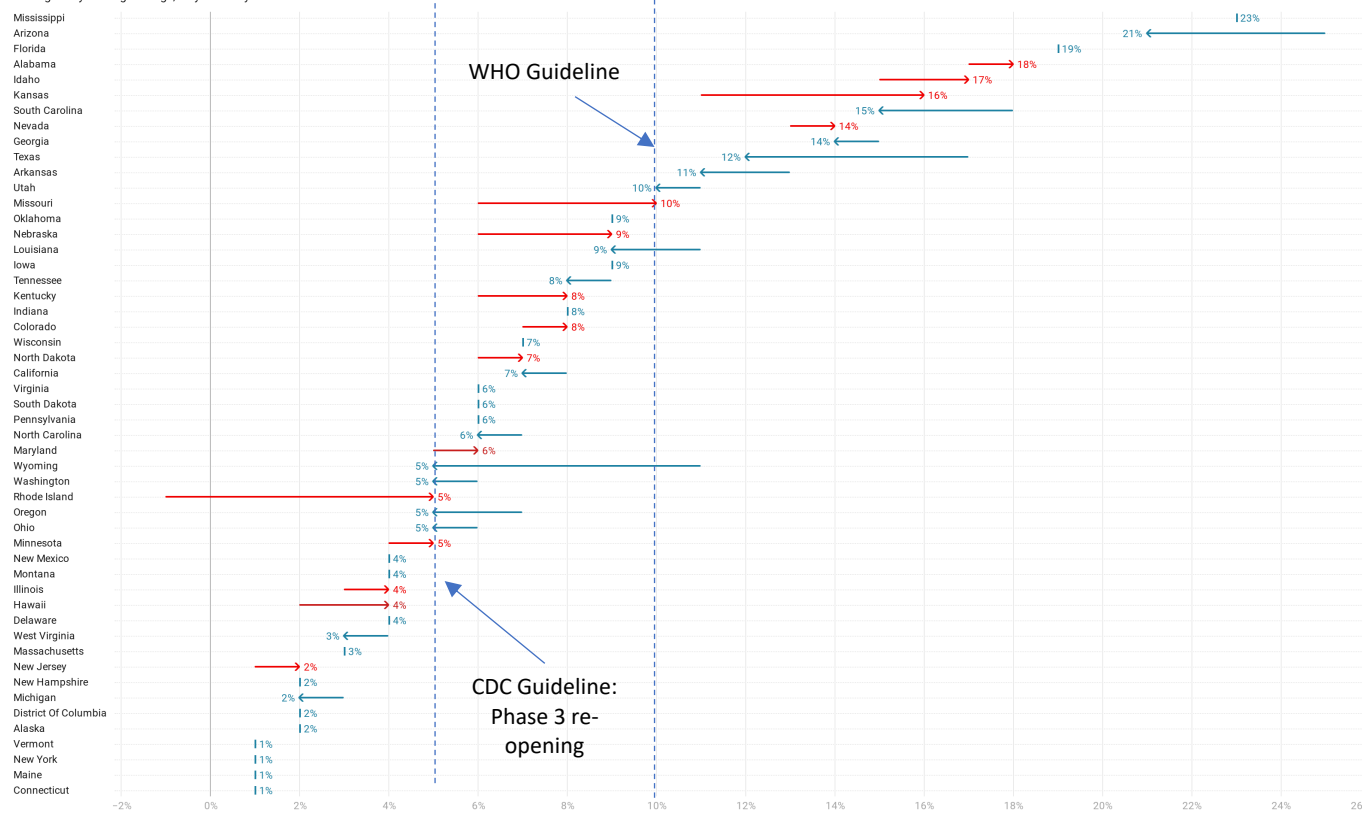
Fifteen states saw test-positive rates increase over the past 2 weeks;
5 of these states exceed the 10% guideline level (CDC – Phase 3 re-opening)

States with increasing test-positive rates, >10%:

- Alabama
- Idaho
- Kansas
- Missouri
- Nevada

Test-Positive Rates

Trailing 7-Day Moving Average, July 14 v July 28

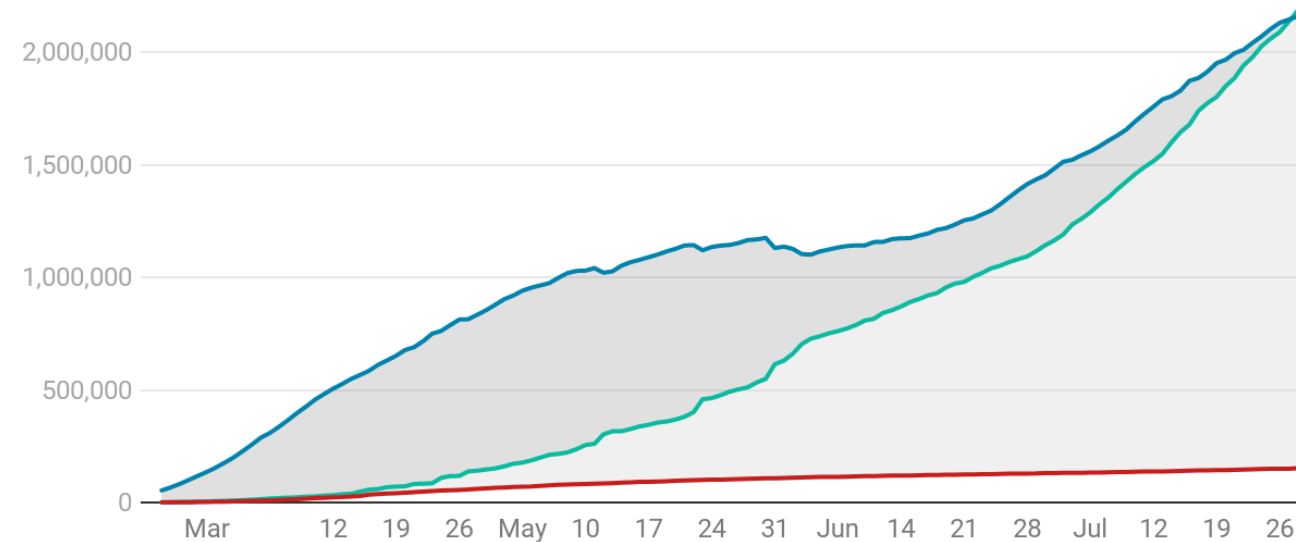


Health Industry Advisor LLC analysis
Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

Active Cases v. Recoveries & Deaths

As of July 28

— Active Cases — Recoveries — Deaths



Health Industry Advisor LLC analysis

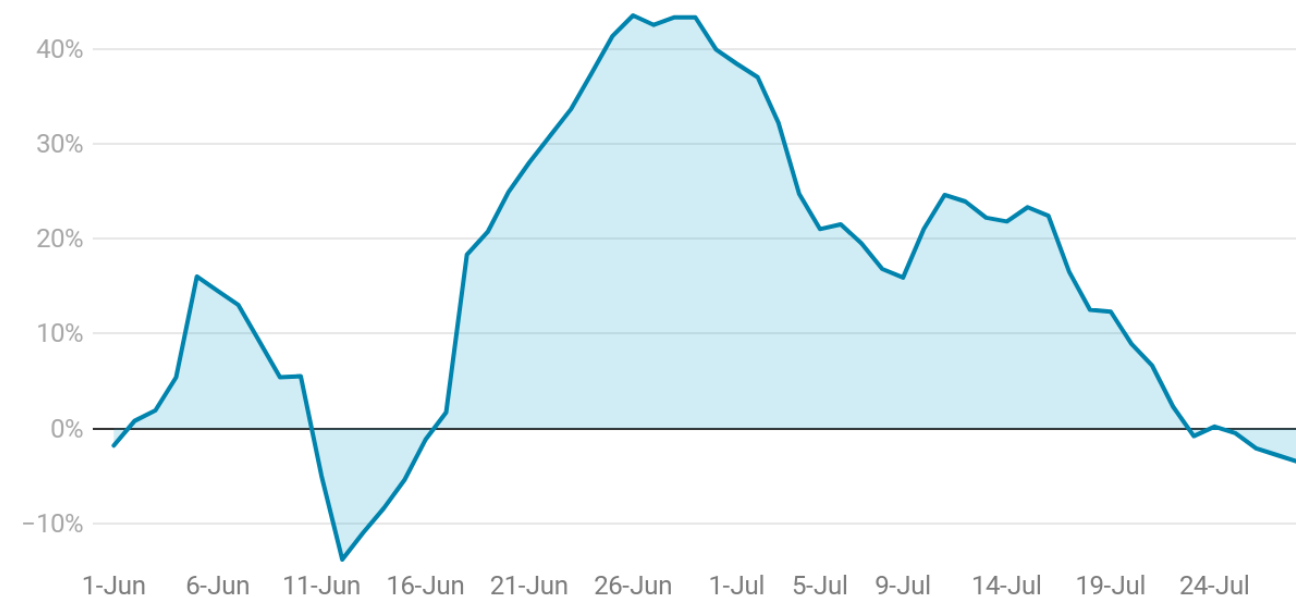
Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

United States

Leading Indicator: After weeks of slower growth, new cases have now declined 3.5% on a week-over-week basis

Week-Over-Week Change In New Cases

United States, As of July 28



Health Industry Advisor LLC analysis

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

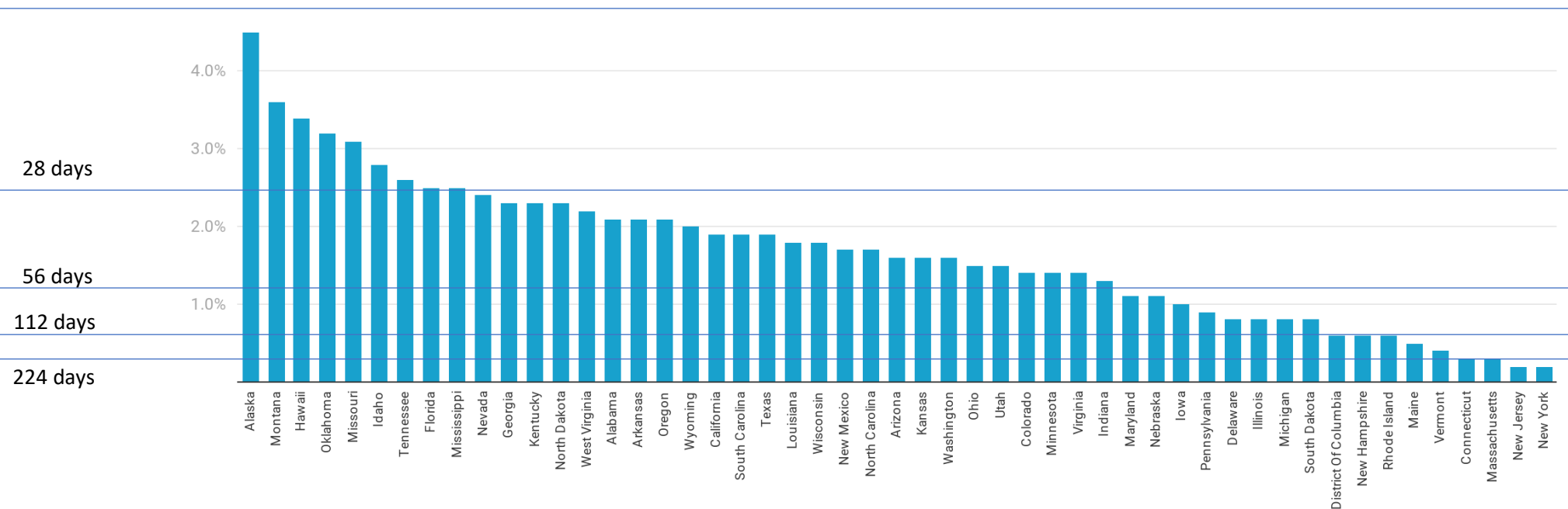
State-By-State

At current rates, cases are doubling every 16 days in Alaska; every 408 days in New York; 44-45 for the United States overall

Growth Rate in Total Cases

Trailing 5-Day Moving Average, As of July 28

14 days to double



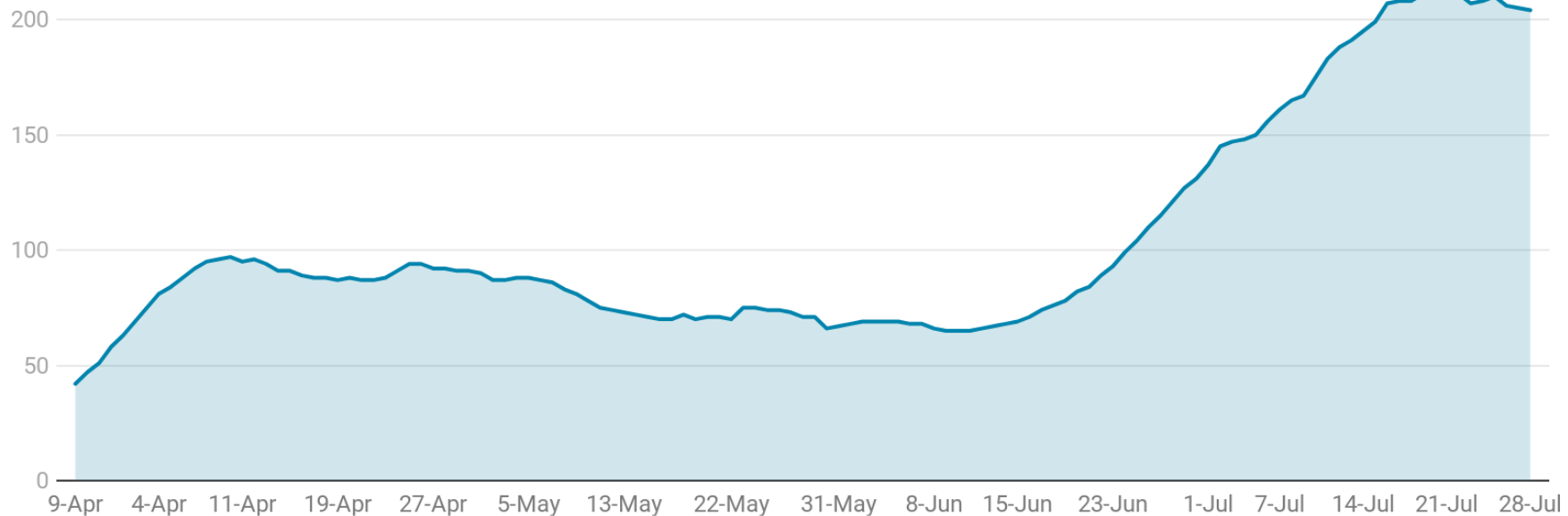
Health Industry Advisor LLC analysis

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

The new daily infection rate peaked 9 days ago, reversing a 5-week period of accelerated growth

New Infections Per 1 Million Population - United States

Trailing 7-Day Moving Average, As of July 28



Health Industry Advisor LLC analysis

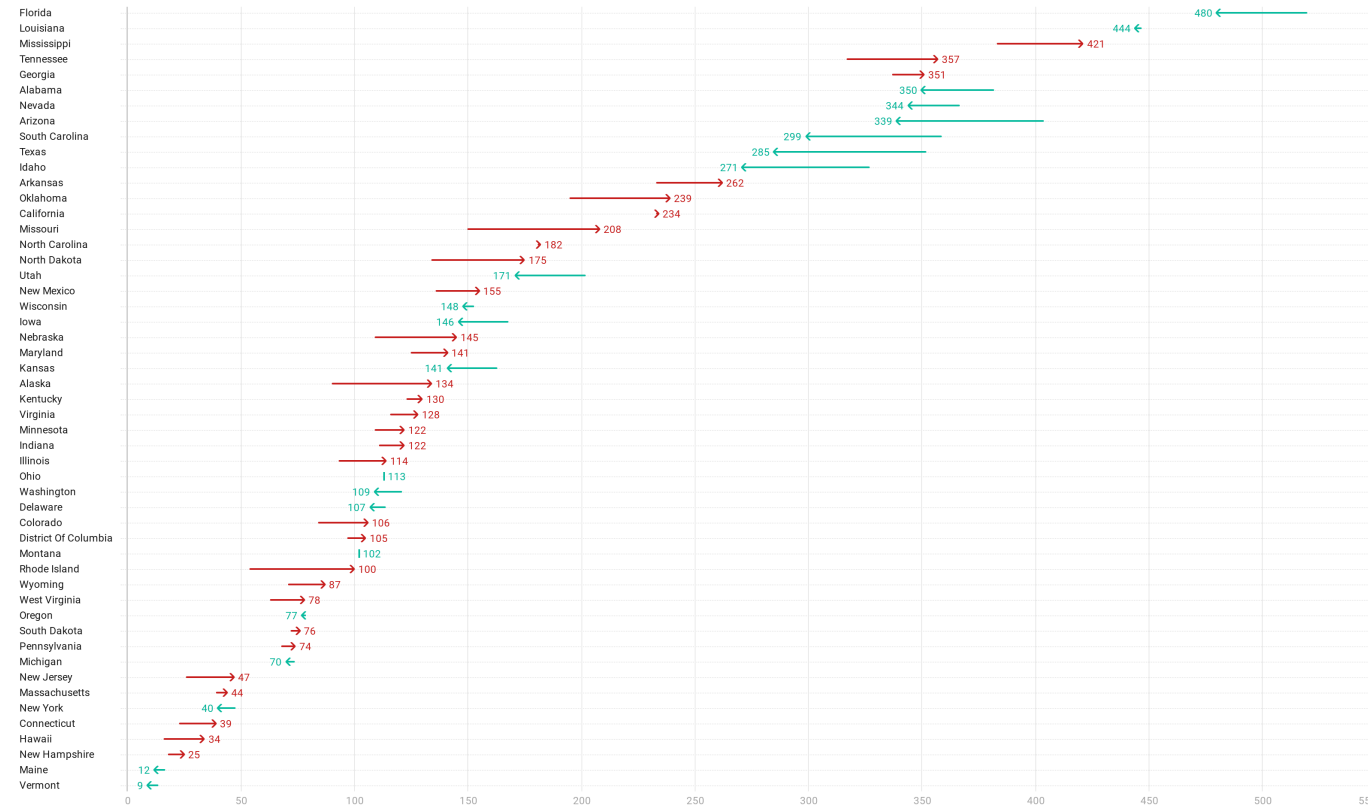
Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

State-By-State

Infection rate increased in 29 of 50 states during the past week; 8 of 11 states currently hardest-hit, however, saw a decline. Mississippi, Tennessee and Georgia are most significant concern now

New Daily Infections / 1 Million Population

Trailing 7-Day Moving Average, July 21 v July 28

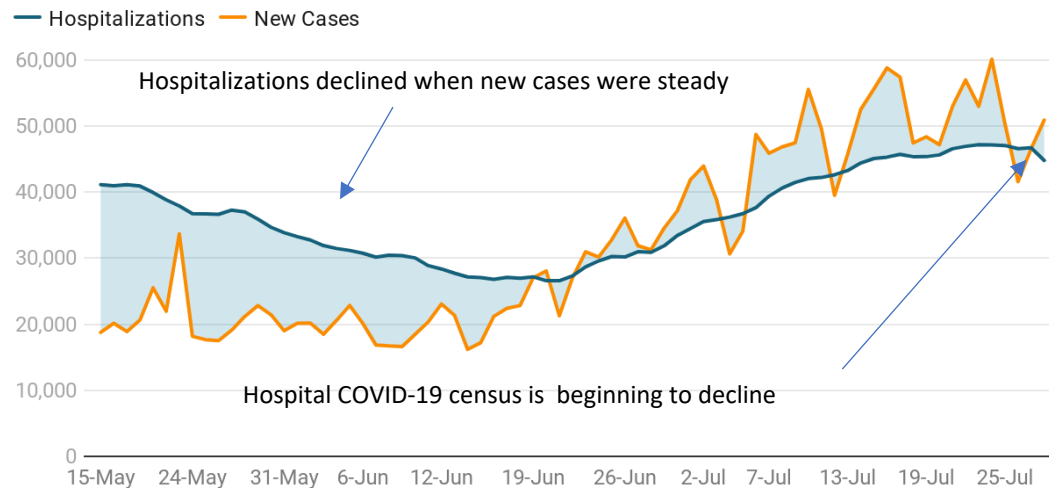


Health Industry Advisor LLC analysis
Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

In the past few days, COVID-19 hospital census has declined; Patients in the ICU and on ventilators increasing slightly

Hospitalizations v. New Cases

As of July 28



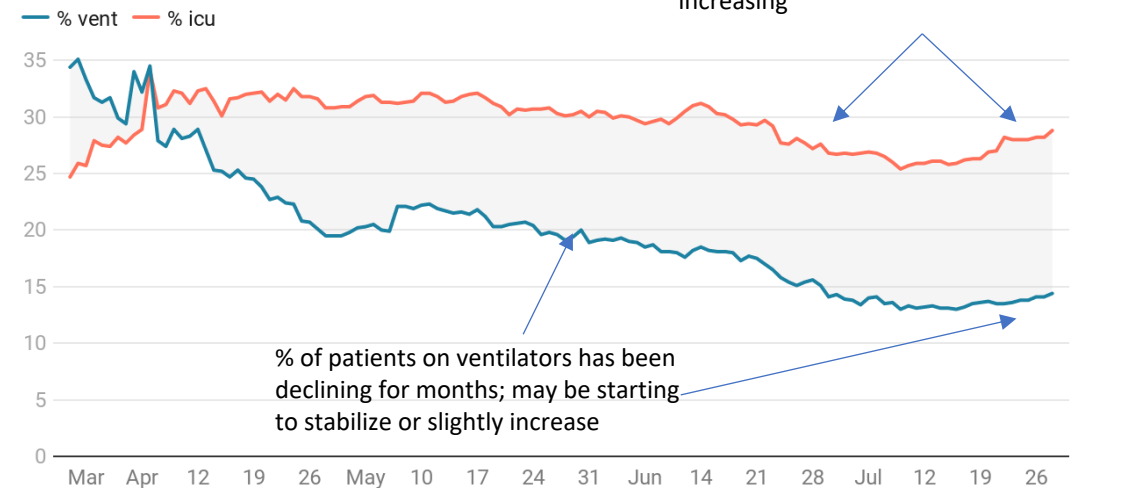
Health Industry Advisor LLC analysis

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 28



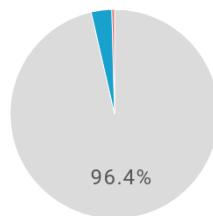
Health Industry Advisor LLC analysis

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

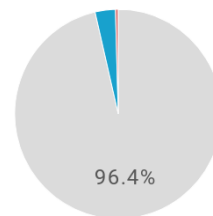
Distribution of Active Cases

As of July 28

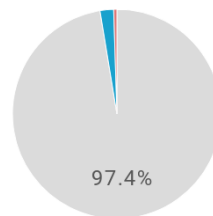
Non-Hospital
Hospital
ICU



14-Jul
Hospital:
3.2%



21-Jul
Hospital:
3.2%

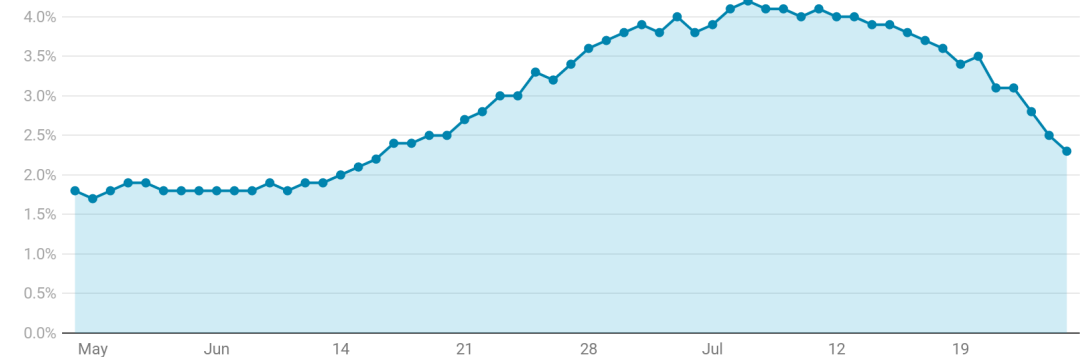


28-Jul
Hospital:
2.1%

Chart: Health Industry Advisor LLC • Created with Datawrapper

% of Emergency Department Visits for COVID-Like Illness

As of July 25

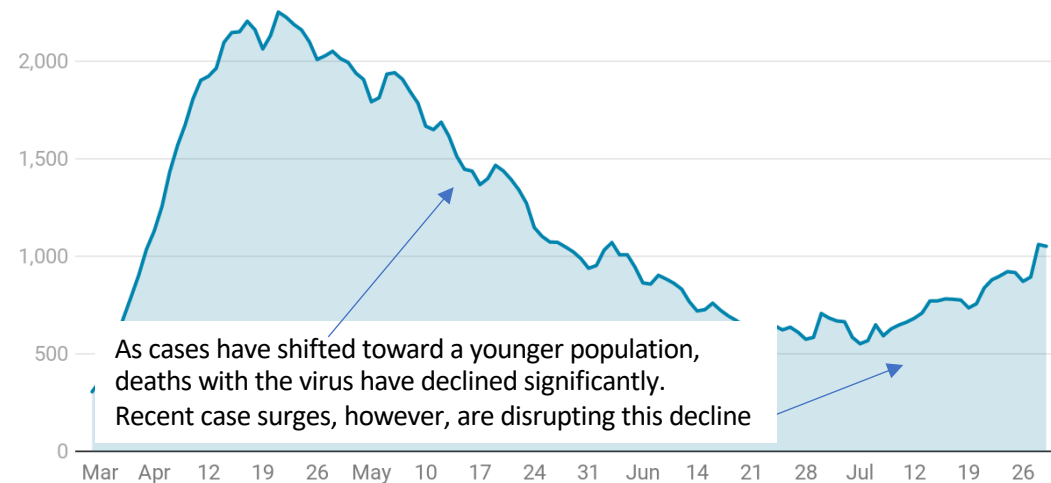


Health Industry Advisor LLC analysis

Chart: Health Industry Advisor LLC • Source: Centers for Disease Control • Created with Datawrapper

Deaths Recorded With Coronavirus in the U.S.

Trailing 7-Day Moving Average, As of July 28

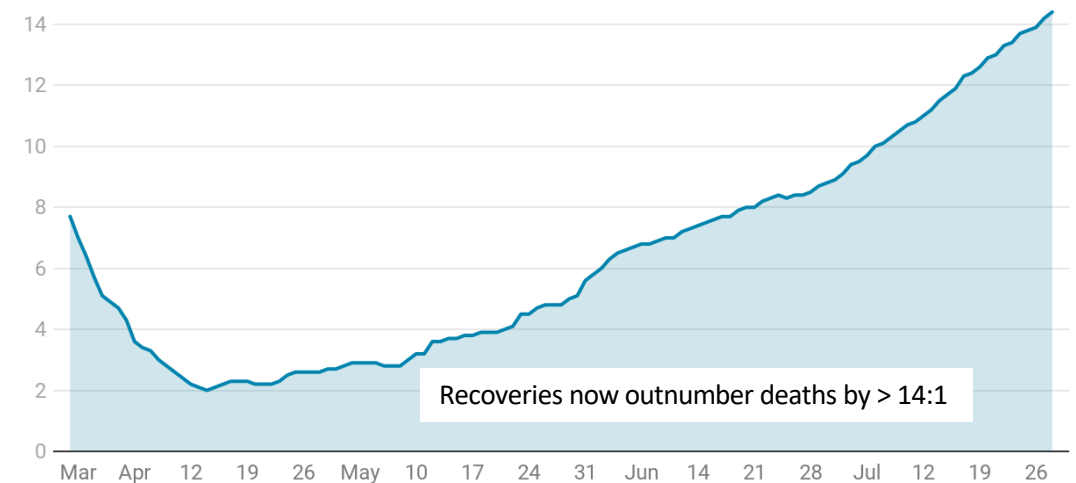


Health Industry Advisor LLC analysis

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

Recoveries: Deaths - United States

As of July 28



Health Industry Advisor LLC analysis

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

Worldwide Statistical Summary

Top 30 Countries By Total Cases
As of July 28

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.)	Rank9
USA	4,498,343	(1)	13,584	(10)	152,320	(1)	3.4%	(71)	460.0	(12)	1.5%	(73)	2,539	(15)	202.7	(6)
Brazil	2,484,649	(2)	11,683	(14)	88,634	(2)	3.6%	(61)	416.8	(13)	1.6%	(70)	5,165	(8)	213.7	(5)
India	1,532,135	(3)	1,109	(99)	34,224	(6)	2.2%	(102)	24.8	(97)	3.5%	(20)	305	(92)	35.0	(53)
Russia	823,515	(4)	5,643	(30)	13,504	(11)	1.6%	(126)	92.5	(47)	0.7%	(121)	1,839	(21)	39.3	(50)
South Africa	459,761	(5)	7,745	(20)	7,257	(17)	1.6%	(131)	122.2	(37)	2.4%	(44)	705	(55)	187.6	(8)
Mexico	395,489	(6)	3,065	(59)	44,022	(4)	11.1%	(11)	341.2	(16)	1.8%	(65)	107	(124)	51.0	(41)
Peru	395,005	(7)	11,968	(12)	18,612	(9)	4.7%	(45)	563.9	(9)	1.3%	(88)	697	(57)	142.5	(12)
Chile	349,800	(8)	18,287	(5)	9,240	(13)	2.6%	(88)	483.0	(10)	0.6%	(127)	974	(41)	112.9	(23)
Spain	327,690	(9)	7,008	(23)	28,436	(8)	8.7%	(13)	608.2	(6)	0.6%	(125)	1,092	(36)	44.0	(47)
UK	300,692	(10)	4,428	(43)	45,878	(3)	15.3%	(4)	675.5	(4)	0.2%	(168)	3,414	(12)	10.3	(95)
Iran	296,273	(11)	3,524	(52)	16,147	(10)	5.5%	(36)	192.1	(28)	0.8%	(110)	302	(94)	29.6	(56)
Pakistan	275,225	(12)	1,244	(93)	5,865	(19)	2.1%	(106)	26.5	(94)	0.4%	(142)	97	(128)	5.9	(112)
Saudi Arabia	270,831	(13)	7,771	(19)	2,789	(29)	1.0%	(152)	80.0	(50)	0.8%	(117)	1,595	(26)	61.5	(39)
Colombia	267,385	(14)	5,251	(33)	9,074	(15)	3.4%	(70)	178.2	(31)	3.4%	(22)	580	(68)	158.1	(9)
Italy	246,488	(15)	4,077	(45)	35,123	(5)	14.2%	(6)	581.0	(7)	0.1%	(183)	778	(47)	4.1	(123)
Bangladesh	229,185	(16)	1,391	(89)	3,000	(28)	1.3%	(144)	18.2	(103)	1.2%	(91)	71	(136)	16.2	(74)
Turkey	227,982	(17)	2,701	(66)	5,645	(21)	2.5%	(92)	66.9	(56)	0.4%	(144)	516	(73)	11.0	(92)
Germany	207,951	(18)	2,481	(72)	9,207	(14)	4.4%	(50)	109.9	(41)	0.3%	(163)	910	(45)	6.9	(105)
France	183,804	(19)	2,815	(64)	30,223	(7)	16.4%	(3)	462.9	(11)	0.5%	(139)	213	(108)	14.1	(80)
Argentina	173,355	(20)	3,833	(50)	3,179	(27)	1.8%	(117)	70.3	(55)	3.2%	(24)	305	(93)	117.6	(20)
Iraq	115,332	(21)	2,863	(63)	4,535	(26)	3.9%	(55)	112.6	(40)	2.4%	(42)	485	(75)	64.4	(34)
Canada	114,994	(22)	3,045	(60)	8,912	(16)	7.7%	(17)	236.0	(22)	0.4%	(147)	1,066	(38)	12.5	(88)
Qatar	109,880	(23)	39,134	(1)	167	(78)	0.2%	(187)	59.5	(61)	0.3%	(160)	1,565	(28)	124.7	(16)
Indonesia	102,051	(24)	373	(143)	4,901	(23)	4.8%	(41)	17.9	(104)	1.7%	(67)	83	(132)	6.4	(109)
Egypt	92,947	(25)	907	(105)	4,691	(24)	5.0%	(39)	45.8	(71)	0.6%	(133)	(0)	(193)	5.4	(114)
Kazakhstan	84,648	(26)	4,504	(41)	793	(47)	0.9%	(154)	42.2	(74)	2.0%	(58)	2,076	(19)	85.0	(27)
China	83,959	(27)	58	(193)	4,634	(25)	5.5%	(35)	3.2	(160)	0.1%	(187)	-	(162)	0.0	(189)
Philippines	83,612	(28)	762	(108)	1,946	(33)	2.3%	(99)	17.7	(105)	2.4%	(46)	256	(104)	16.7	(72)
Ecuador	82,279	(29)	4,658	(40)	5,584	(22)	6.8%	(22)	316.2	(17)	1.0%	(99)	183	(110)	49.0	(43)
Sweden	79,494	(30)	7,868	(18)	5,702	(20)	7.2%	(18)	564.3	(8)	0.2%	(174)	1,961	(20)	18.8	(68)

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

As of July 28

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	81,115	(19)	16,798	(9)	1,491	(24)	1.8%	(31)	304	(18)	2.1%	(15)	1,894	(31)	349.9	(6)
Alaska	2,622	(48)	3,730	(46)	22	(51)	0.8%	(50)	30	(50)	4.5%	(1)	6,883	(1)	134.4	(25)
Arizona	163,827	(8)	22,797	(2)	3,408	(14)	2.1%	(27)	468	(14)	1.6%	(26)	1,634	(38)	338.6	(8)
Arkansas	39,447	(30)	13,315	(21)	428	(36)	1.1%	(46)	142	(37)	2.1%	(17)	2,380	(23)	261.6	(12)
California	466,825	(1)	12,017	(24)	8,714	(3)	1.9%	(30)	221	(28)	1.9%	(20)	3,185	(9)	233.7	(14)
Colorado	44,565	(26)	7,869	(38)	1,807	(19)	4.1%	(13)	314	(17)	1.4%	(32)	1,219	(48)	105.6	(34)
Connecticut	48,983	(25)	13,765	(19)	4,423	(10)	9.0%	(1)	1,241	(3)	0.3%	(48)	3,600	(5)	39.3	(47)
Delaware	14,406	(40)	14,866	(13)	580	(34)	4.0%	(14)	596	(10)	0.8%	(42)	2,388	(22)	107.1	(33)
District Of Columbia	11,858	(41)	16,925	(8)	583	(33)	4.9%	(9)	826	(6)	0.6%	(43)	4,516	(3)	104.9	(35)
Florida	432,747	(3)	20,578	(5)	6,119	(8)	1.4%	(43)	285	(24)	2.5%	(8)	2,531	(17)	479.9	(1)
Georgia	170,843	(7)	16,487	(11)	3,563	(12)	2.1%	(26)	336	(16)	2.3%	(13)	2,584	(16)	350.7	(5)
Hawaii	1,711	(50)	1,241	(51)	26	(50)	1.5%	(39)	18	(51)	3.4%	(3)	743	(51)	34.2	(48)
Idaho	18,694	(37)	10,726	(26)	160	(42)	0.9%	(49)	89	(44)	2.8%	(6)	1,566	(43)	271.0	(11)
Illinois	173,897	(6)	13,808	(18)	7,638	(5)	4.4%	(11)	603	(9)	0.8%	(41)	2,950	(10)	113.8	(30)
Indiana	62,907	(20)	9,459	(29)	2,924	(16)	4.6%	(10)	434	(15)	1.3%	(34)	1,528	(44)	122.3	(28)
Iowa	42,578	(29)	13,564	(20)	839	(29)	2.0%	(28)	266	(25)	1.0%	(37)	1,585	(40)	146.4	(21)
Kansas	26,360	(34)	9,078	(32)	339	(38)	1.3%	(45)	116	(41)	1.6%	(27)	853	(50)	141.1	(24)
Kentucky	27,601	(33)	6,295	(42)	719	(31)	2.6%	(24)	161	(34)	2.3%	(11)	1,567	(42)	130.0	(26)
Louisiana	109,917	(12)	23,885	(1)	3,815	(11)	3.5%	(17)	821	(7)	1.8%	(23)	4,712	(2)	444.0	(2)
Maine	3,832	(46)	2,855	(49)	121	(44)	3.2%	(19)	90	(42)	0.5%	(46)	1,791	(33)	12.2	(50)
Maryland	84,876	(17)	14,146	(17)	3,458	(13)	4.1%	(12)	572	(11)	1.1%	(35)	2,455	(18)	141.3	(23)
Massachusetts	115,926	(9)	16,718	(10)	8,551	(4)	7.4%	(4)	1,230	(4)	0.3%	(49)	1,684	(36)	44.2	(45)
Michigan	87,173	(14)	8,807	(34)	6,421	(7)	7.4%	(5)	643	(8)	0.8%	(40)	2,840	(11)	70.1	(43)
Minnesota	51,803	(23)	9,270	(31)	1,620	(20)	3.1%	(20)	287	(23)	1.4%	(31)	2,612	(15)	122.2	(29)
Mississippi	52,957	(22)	18,245	(6)	1,543	(23)	2.9%	(21)	518	(13)	2.5%	(9)	1,821	(32)	421.2	(3)

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

As of July 28

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	44,429	(27)	7,512	(39)	1,259	(25)	2.8%	(22)	205	(30)	3.1%	(5)	1,690	(35)	208.5	(15)
Montana	3,381	(47)	3,251	(48)	51	(48)	1.5%	(40)	48	(48)	3.6%	(2)	2,728	(13)	102.0	(36)
Nebraska	24,899	(35)	13,005	(22)	321	(39)	1.3%	(44)	166	(33)	1.1%	(36)	1,674	(37)	145.3	(22)
Nevada	43,831	(28)	14,589	(14)	759	(30)	1.7%	(35)	246	(26)	2.4%	(10)	2,415	(20)	343.6	(7)
New Hampshire	6,441	(43)	4,780	(43)	409	(37)	6.3%	(7)	301	(20)	0.6%	(45)	1,183	(49)	25.0	(49)
New Jersey	185,756	(5)	20,976	(4)	15,905	(2)	8.6%	(2)	1,791	(1)	0.2%	(50)	2,675	(14)	47.2	(44)
New Mexico	19,502	(36)	9,439	(30)	626	(32)	3.2%	(18)	299	(21)	1.7%	(24)	3,570	(6)	154.9	(19)
New York	440,462	(2)	22,683	(3)	32,719	(1)	7.4%	(3)	1,682	(2)	0.2%	(51)	3,331	(7)	40.5	(46)
North Carolina	114,538	(10)	11,089	(25)	1,847	(18)	1.6%	(37)	176	(32)	1.7%	(25)	2,786	(12)	182.2	(16)
North Dakota	5,986	(45)	8,058	(37)	100	(46)	1.7%	(36)	131	(39)	2.3%	(12)	2,391	(21)	175.1	(17)
Ohio	85,206	(16)	7,403	(40)	3,388	(15)	4.0%	(16)	290	(22)	1.5%	(29)	2,429	(19)	113.2	(31)
Oklahoma	32,686	(32)	8,536	(36)	509	(35)	1.6%	(38)	129	(40)	3.2%	(4)	3,308	(8)	239.3	(13)
Oregon	17,088	(39)	4,129	(45)	303	(40)	1.8%	(34)	72	(46)	2.1%	(16)	1,436	(45)	77.1	(40)
Pennsylvania	112,995	(11)	8,915	(33)	7,218	(6)	6.4%	(6)	564	(12)	0.9%	(38)	1,265	(46)	74.4	(42)
Rhode Island	18,515	(38)	17,676	(7)	1,005	(26)	5.4%	(8)	949	(5)	0.6%	(44)	2,157	(26)	99.7	(37)
South Carolina	82,417	(18)	16,336	(12)	1,565	(21)	1.9%	(29)	304	(19)	1.9%	(21)	1,988	(30)	298.9	(9)
South Dakota	8,444	(42)	9,599	(28)	123	(43)	1.5%	(42)	139	(38)	0.8%	(39)	1,235	(47)	76.4	(41)
Tennessee	96,489	(13)	14,495	(15)	978	(27)	1.0%	(48)	143	(36)	2.6%	(7)	3,621	(4)	357.5	(4)
Texas	404,179	(4)	14,308	(16)	6,004	(9)	1.5%	(41)	207	(29)	1.9%	(19)	2,135	(27)	284.5	(10)
Utah	38,409	(31)	12,120	(23)	286	(41)	0.7%	(51)	89	(45)	1.5%	(30)	1,741	(34)	171.2	(18)
Vermont	1,402	(51)	2,252	(50)	56	(47)	4.0%	(15)	90	(43)	0.4%	(47)	1,583	(41)	8.9	(51)
Virginia	86,072	(15)	10,192	(27)	2,095	(17)	2.4%	(25)	245	(27)	1.4%	(33)	1,997	(29)	127.6	(27)
Washington	54,948	(21)	7,331	(41)	1,552	(22)	2.8%	(23)	204	(31)	1.6%	(28)	2,006	(28)	109.2	(32)
West Virginia	6,054	(44)	3,454	(47)	111	(45)	1.8%	(32)	62	(47)	2.2%	(14)	2,360	(24)	77.9	(39)
Wisconsin	49,417	(24)	8,618	(35)	906	(28)	1.8%	(33)	156	(35)	1.8%	(22)	2,288	(25)	148.3	(20)
Wyoming	2,520	(49)	4,473	(44)	26	(50)	1.0%	(47)	45	(49)	2.0%	(18)	1,633	(39)	86.6	(38)
United States	4,498,343		13,590		152,320		3.4%		460		1.5%		2,435		202.7	

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>