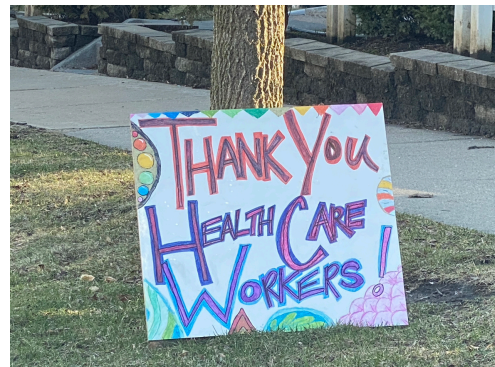
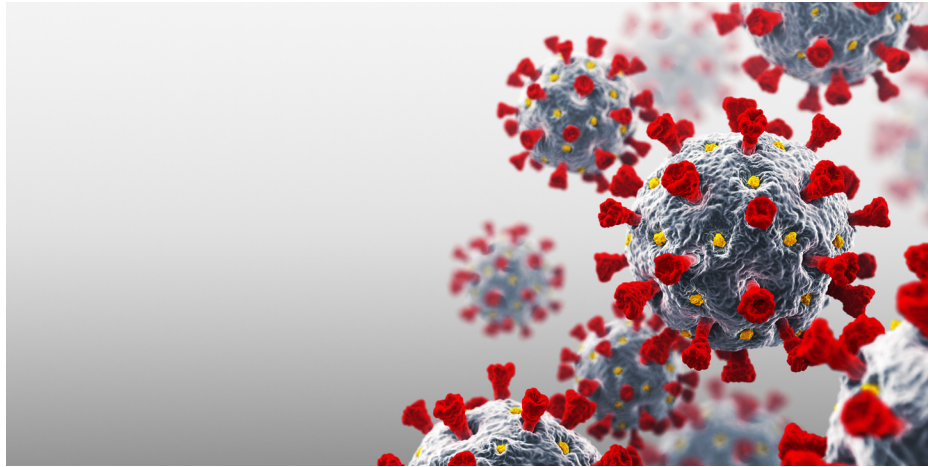
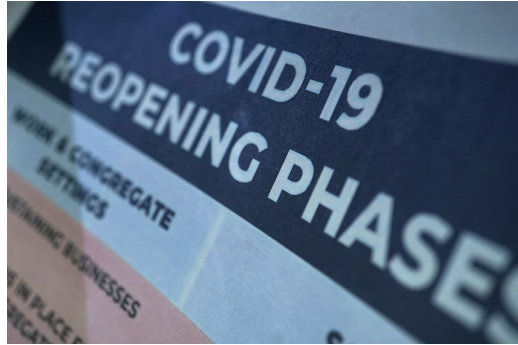




COVID-19 Report

Issue # 141

Thursday, August 20, 2020

- **Infection rates continue to decline across the world and the United States**
 - As of yesterday, **new infections per capita in the United States are at their lowest rate in nearly seven weeks**; this rate has been steadily declining since peaking during the third week of July
 - Over the past three weeks, rates of new infections per capita have declined in thirty-seven states
 - Of the states which saw increasing rates during this time, only Hawaii, Iowa, Mississippi and North Dakota have rates currently above the U.S. average
 - **Among large states that have had high infection rates recently, Arizona, Florida and Louisiana have each seen their rates decline by more than 50%** during the past three weeks. California, Georgia and Texas also saw declining rates, although not as steep as these other states
 - Seventeen states are current seeing infection rates at less than 1/2 their peak; Conversely, ten are seeing rates at or within 10% of their peak
 - World-wide, infection rates in most countries are relatively low, compared to rates seen in Europe in March/April and in the United States and South America in June/July
 - Among the large, recently hard-hit countries, infection rates have eased in South Africa and Oman, as well as the U.S. during the past three weeks
 - **Peru and Colombia, conversely, have seen dramatic increases in infection rates** during this time
- **Testing in the U.S. continues to show encouraging results:**
 - The test-positive rate has been declining for more than a month, on a 7-day trailing average basis. Yesterday, this rate fell to its lowest level since June 25
 - **Only 5 states current report a test-positive rate > 10% for the past week**, only Mississippi's rate is increasing
 - Test volumes in the U.S. were relatively steadily this past week compared to the prior week
- **New cases and deaths are showing positive trends, especially considering day-of-week patterns:**
 - New cases yesterday were the fewest for Wednesday since June 24 (new cases have shown consistent day-of week patterns: lowest on Saturdays and Sundays then increasing each day before peaking on Thursday or Friday)
 - On a week-over-week basis, new cases have declined 12.5%
 - Deaths yesterday were the fewest for a Wednesday in the past 4 weeks, although higher than on Wednesdays in June and most of July
 - On a weekly average basis, deaths yesterday were the lowest in eleven days
- **Healthcare resource use is continuing to ease**
 - Following a slight one-day increase on Tuesday, COVID-19 hospital census declined again on Wednesday, this census is down nearly 18% in the past 4 weeks
 - ICU census of COVID-19 patients is similarly down 16% in the past month, even with one more state (Tennessee) reporting these data now
 - ER visits for COVID-19 like illnesses were up slightly on Sunday (most recent data for which data are available) yet, the long-term trend is down - yesterday rate is less than 1/2 of its rate in early July

Vaccines

August 19 Update: There are more than 135 potential vaccines in the pipeline, two of which have been approved for limited use – although with great controversy
Eight vaccines in Phase III clinical trials – several anticipate results in October

Pre-Clinical –

Vaccines not yet in clinical trial

135+

Phase I –

Vaccines testing safety and dosage

20

- Medigen – announced a September Phase I launch
- ReiThera – launches a Phase I trial

Phase II –

Vaccines in expanded safety trials

13

- Noravax – announced strong preliminary results
- Zydus Caila – launched a Phase II trial

Phase III –

Vaccines in large-scale efficacy tests

8

- Moderna/National Institutes of Health
- BioNTech/Pfizer/Fosun Pharma
- AstraZeneca/University of Oxford
- CanSinoBIO
- Wuhan Institute of Biological Products/Sinopharm
- Beijing Institute of Biological Products/Sinopharm
- Sinovac Biotech
- Murdoch Children's Research Institute

Phase IV –

Vaccine approved for limited use

2

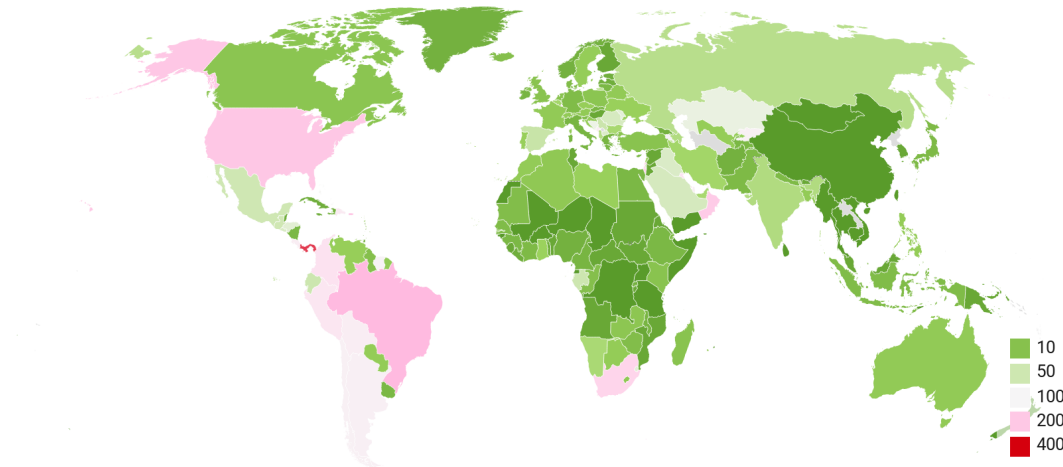
- CanSinoBIO/China's Academy of Military Medical Sciences
- Gamaleya Research Institute – Russian health regulator approves for use

* - Source: "Coronavirus Vaccine Tracker", New York Times, Updated August 19, 2020
<https://www.nytimes.com/interactive/2020/science/coronavirus-vaccine-tracker.html>

Over the past three weeks, infection spread has intensified in Peru and Colombia, eased in the United States, Oman and South Africa. Brazil remains a concern

New Daily Infections / 1 Million Population

Trailing 7-Day Moving Average, As of July 29

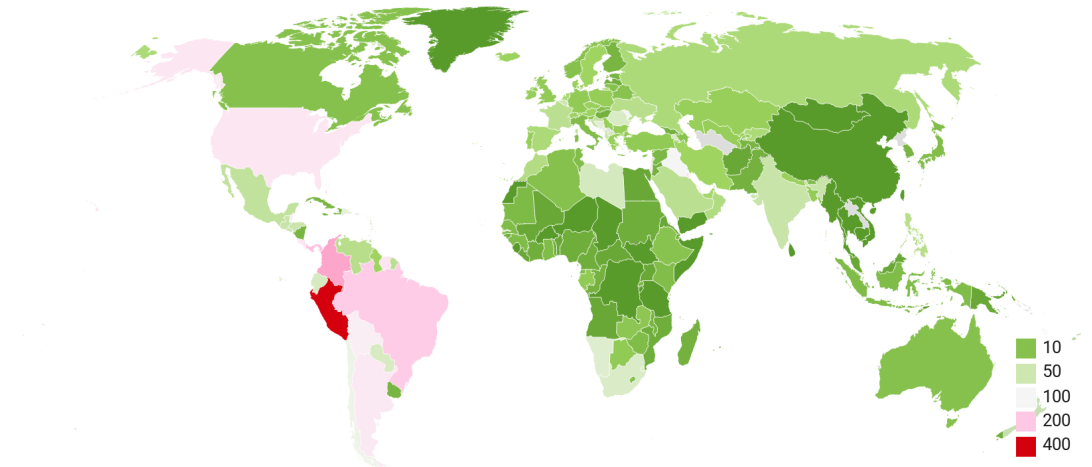


Health Industry Advisor LLC analysis

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

New Daily Infections / 1 Million Population

Trailing 7-Day Moving Average, As of August 19

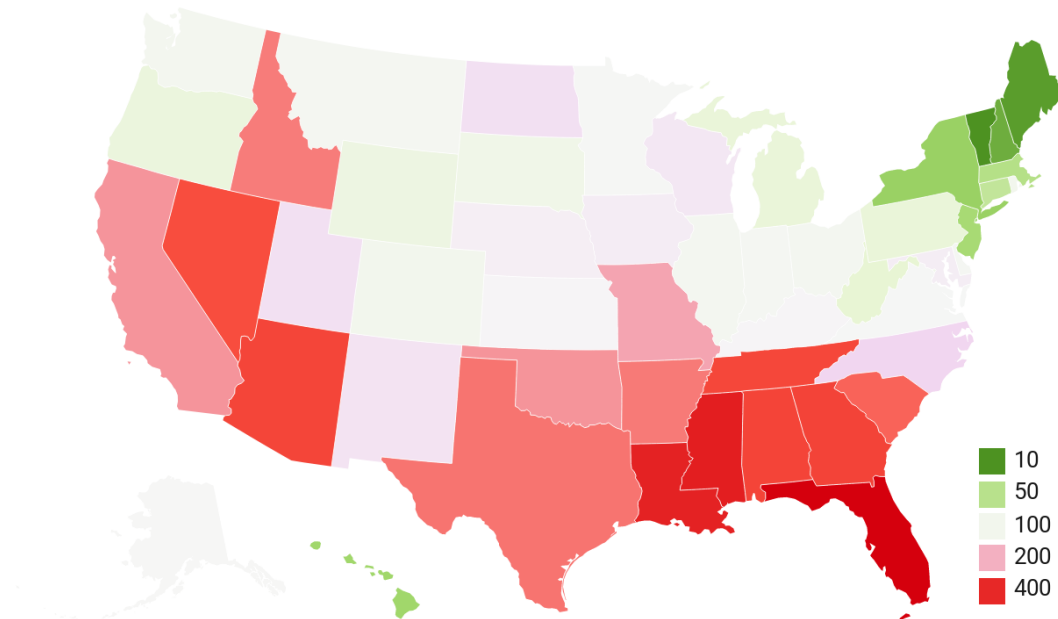


Health Industry Advisor LLC analysis

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

New Daily Infections Per 1 Million Population

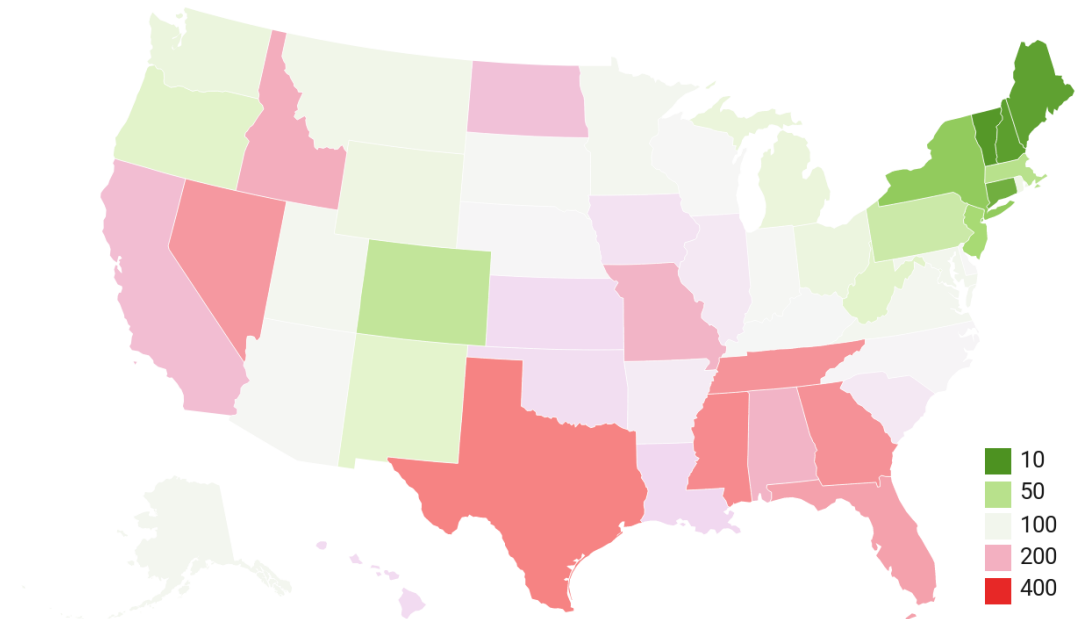
Trailing 7-Day Moving Average, As of July 29



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

New Daily Infections Per 1 Million Population

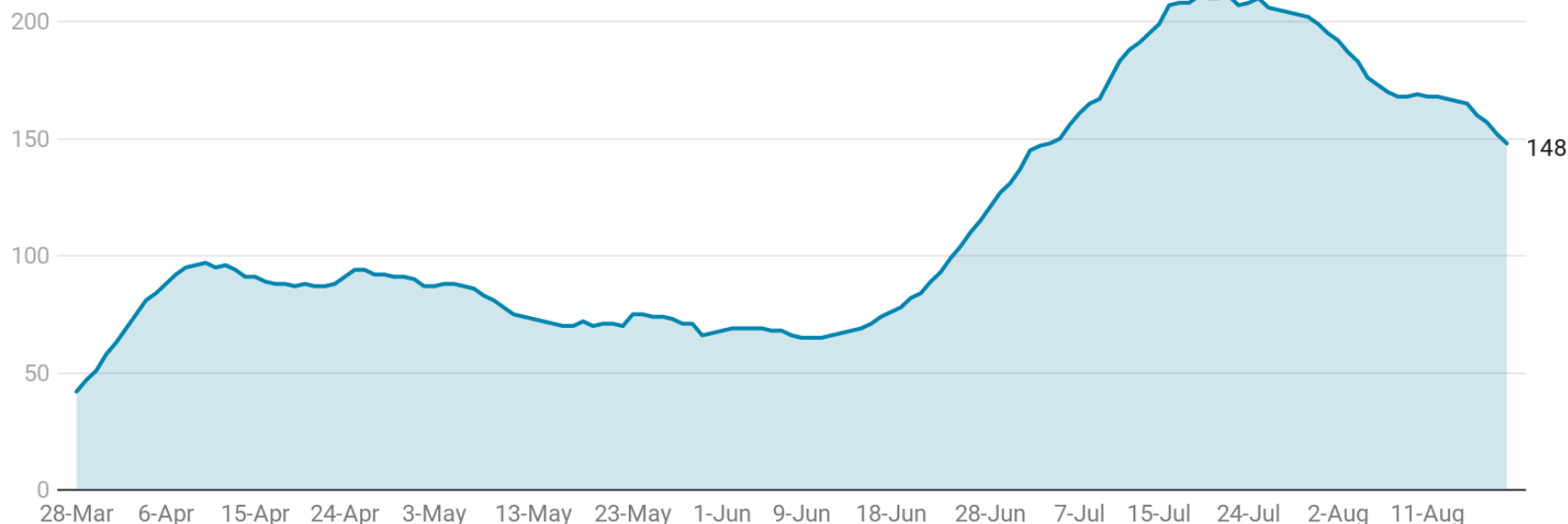
Trailing 7-Day Moving Average, As of August 19



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

New Infections Per 1 Million Population - United States

Trailing 7-Day Moving Average, Through August 19



Health Industry Advisor LLC analysis

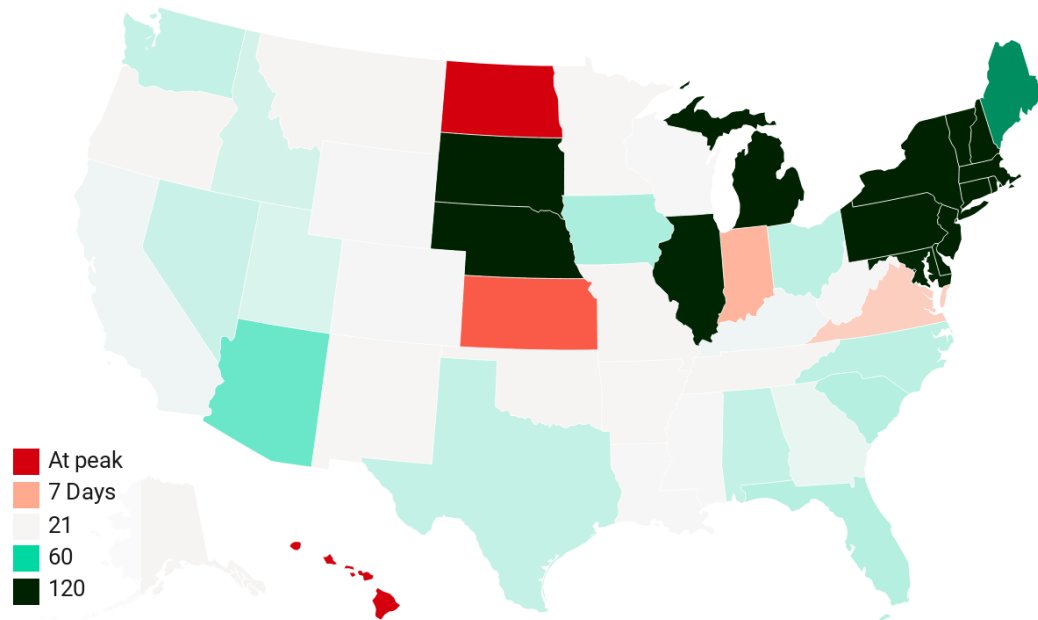
Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

* - per million per day, trailing 7-day moving average

Most states are three weeks or more past their peak new infection rate
Seventeen states are experiencing new infection rates less than ½ their peak; Only ten are within 10% of peak

Days Since Peak New Infections Per Capita

Trailing 7-Day Moving Average, As of August 19



Health Industry Advisor LLC analysis

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

New Daily Infections / Million - Current Rate as % of Peak

Trailing 7-Day Moving Average, As of August 19

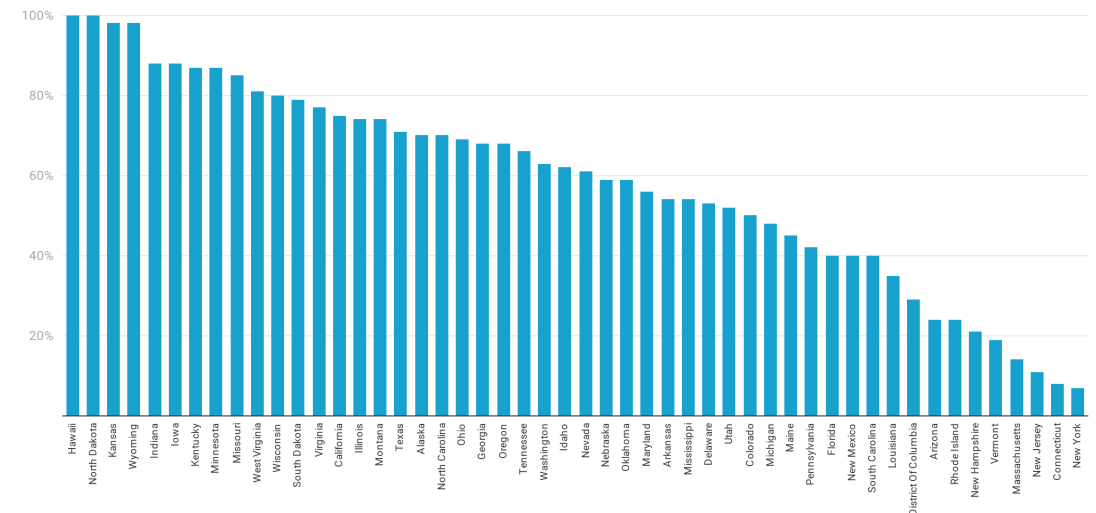
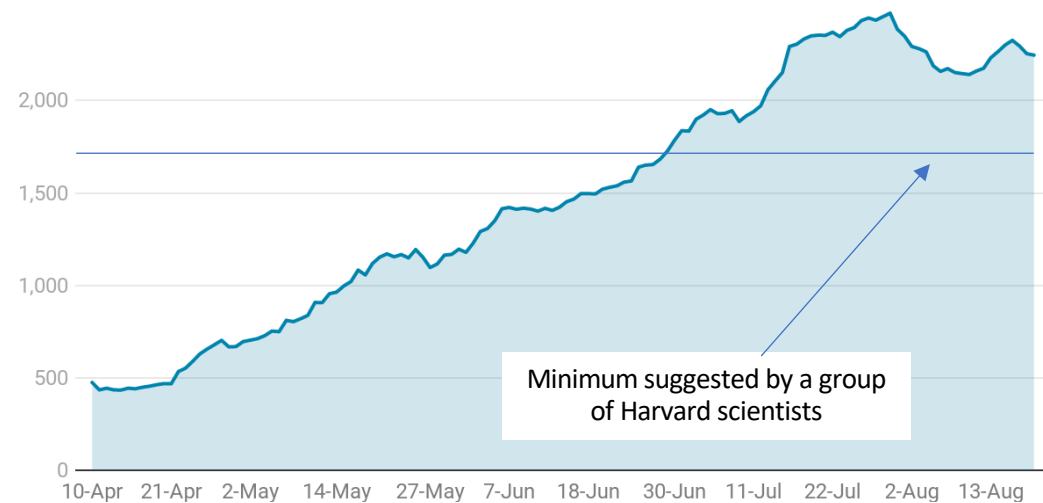


Chart: Health Industry Advisor LLC • Created with Datawrapper

Testing refers to tests for active infection, as reported via state health agencies; does not reflect antibody testing for prior infection

Daily Tests Per 1 Million - United States

Trailing 7-Day Moving Average, As of August 19

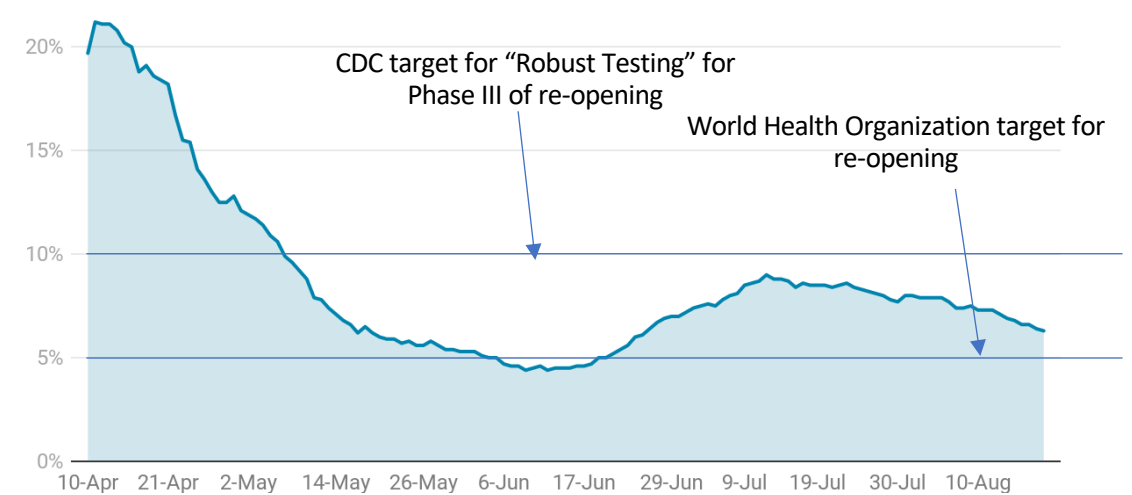


Health Industry Advisor LLC analysis

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 August 19



Health Industry Advisor LLC analysis

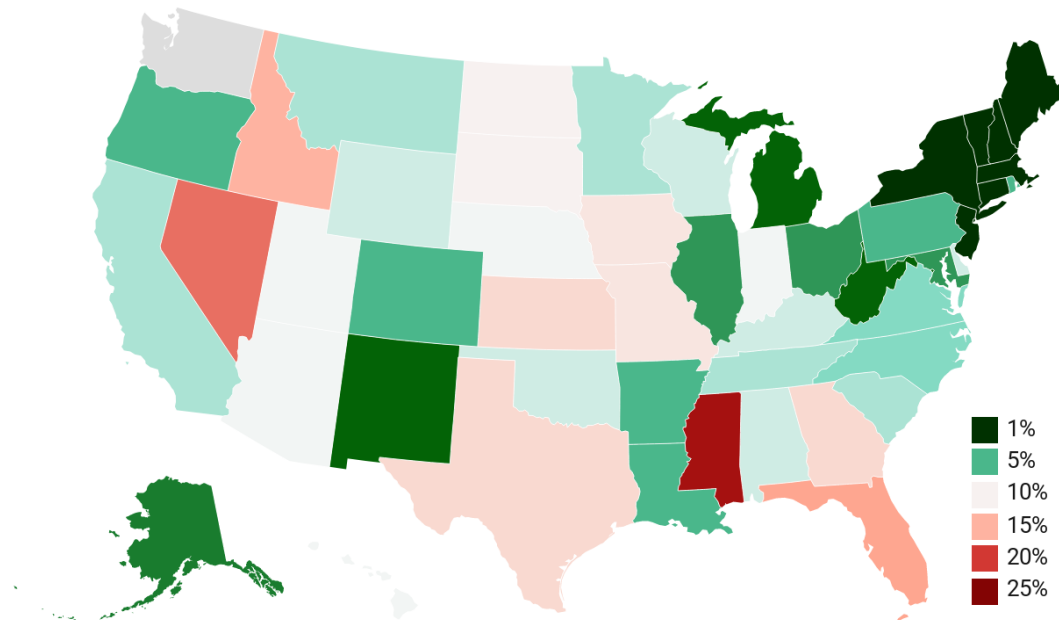
Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

Note: On August 11, North Carolina made a significant adjustment, removing 220,000 tests from their YTD totals. We manually removed this negative adjustment from the August 11 data to better reflect actual testing for that date

Note: Due to a computer glitch, Washington has only reported positive results since August 1. Therefore, test-positive rates from that point forward are slightly overstated by ~0.1%

Test-Positive Rate

Trailing 7-Day Moving Average, As of August 19



Health Industry Advisor LLC analysis

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

Test-Positive%

Trailing 7-Day Moving Average

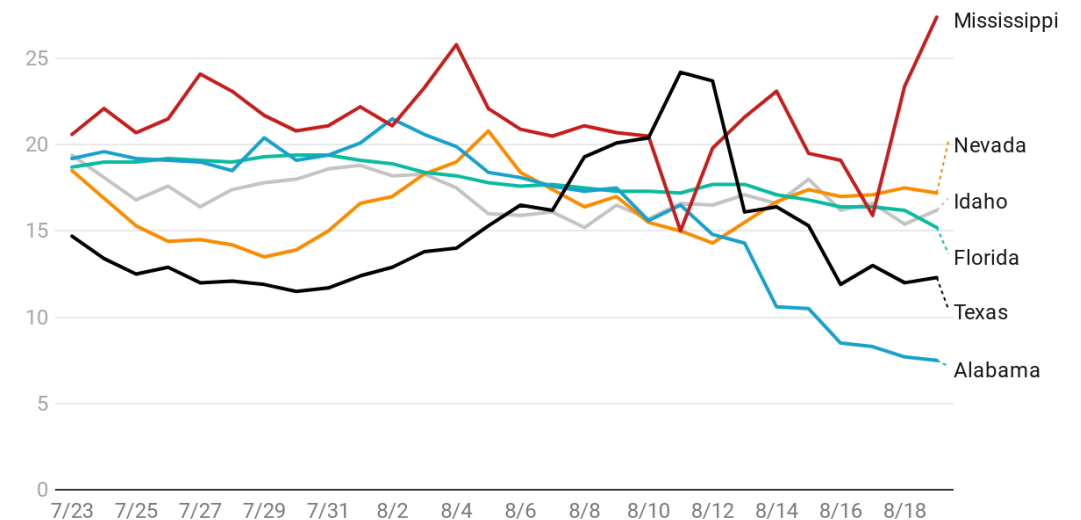


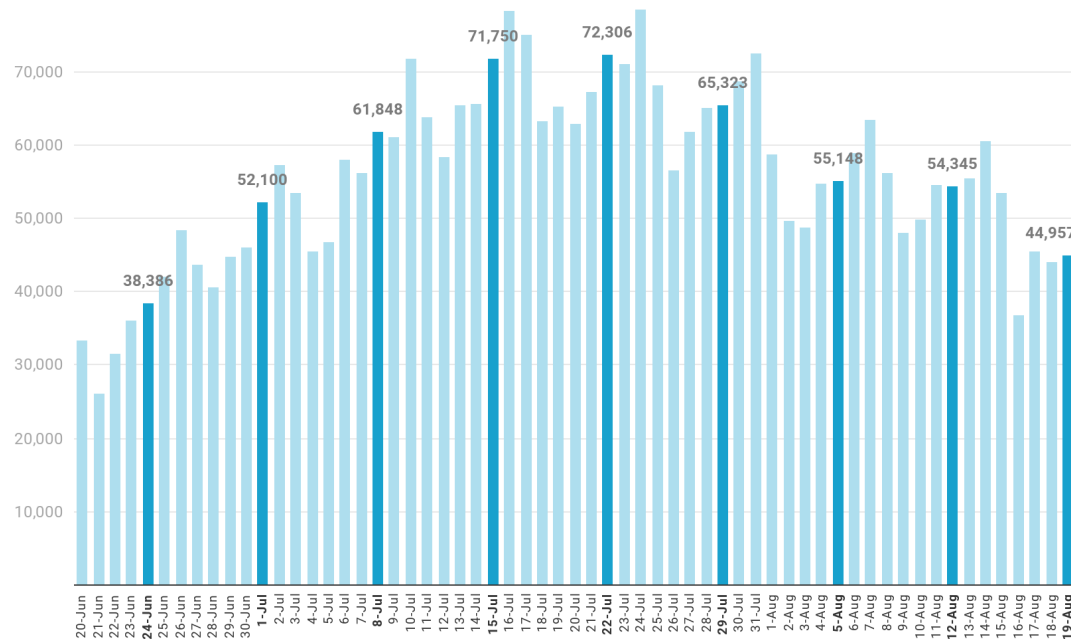
Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

Note: Due to a computer glitch, Washington has only reported positive results since August 1.

New Cases

Through August 19

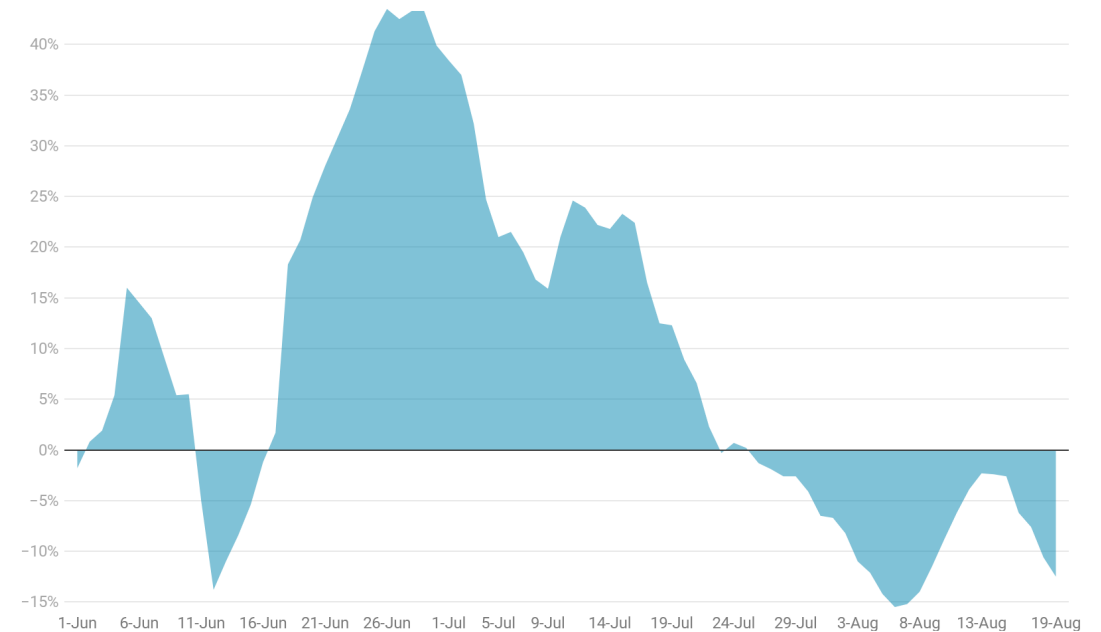
Wednesdays Highlighted



Note the daily pattern: new cases are typically low on Sunday, then increase each day through the week. While we have been noting *this for the past few weeks*, researchers from MIT, Boston University and Harvard Medical School confirmed this in a report published by CIDRAP on August 17

Week-Over-Week Change In New Cases

Through August 19



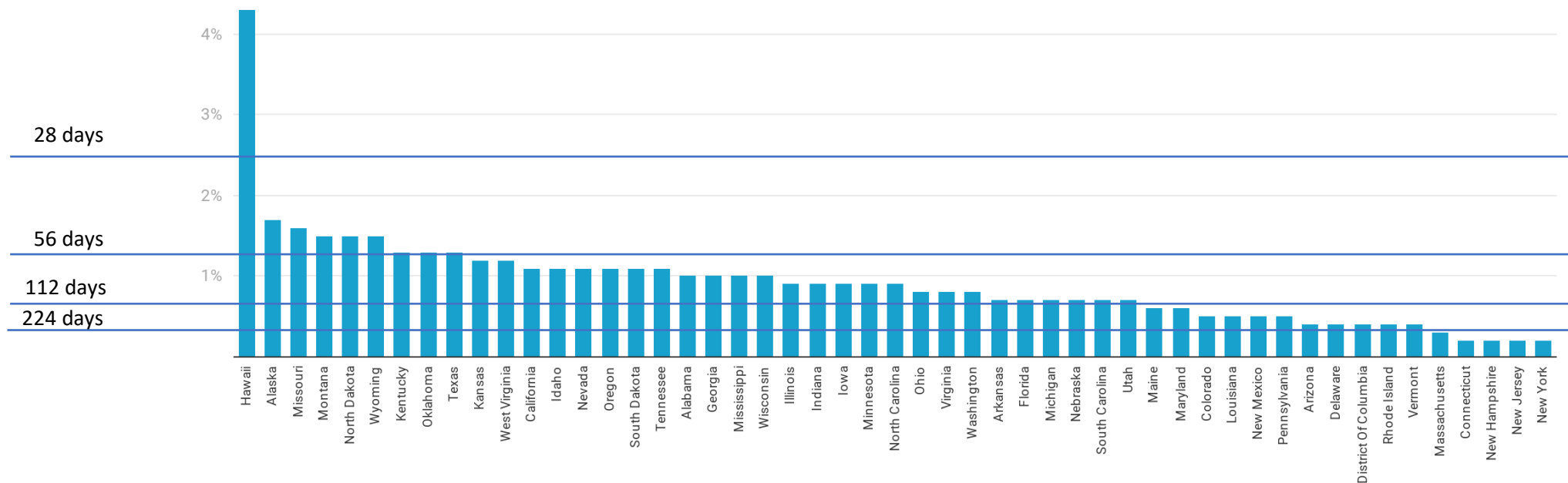
Health Industry Advisor LLC analysis

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

Case growth is slowing - even Hawaii is seeing a slowdown. At current rates, cases are doubling every 16-17 days in Hawaii; every 453 days in New York; every 86 days for the United States overall

Growth Rate in Total Cases

Trailing 5-Day Moving Average, Through August 19

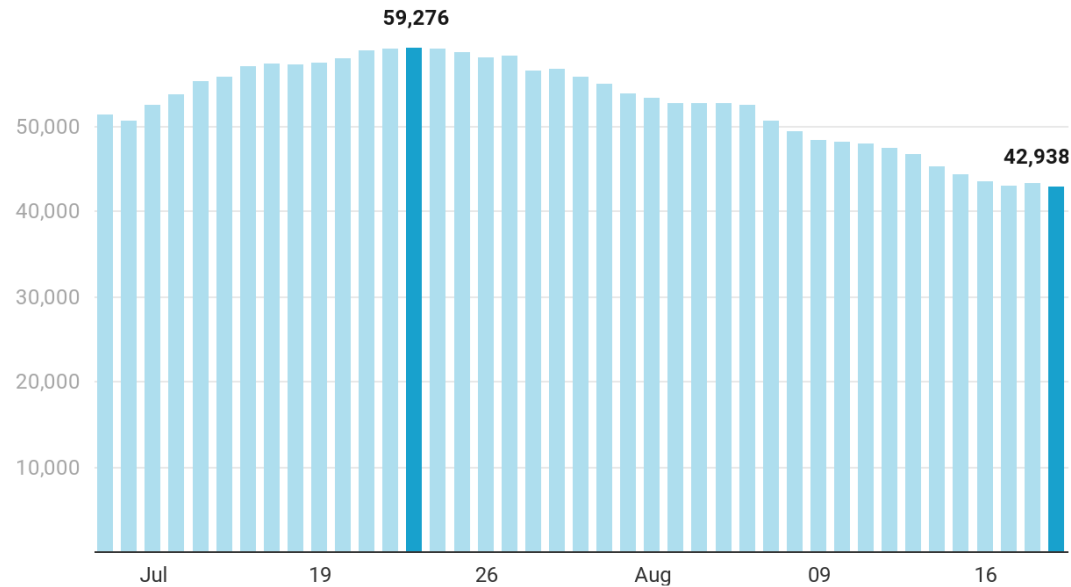


Health Industry Advisor LLC analysis

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

Hospital Census: COVID-19 Patients

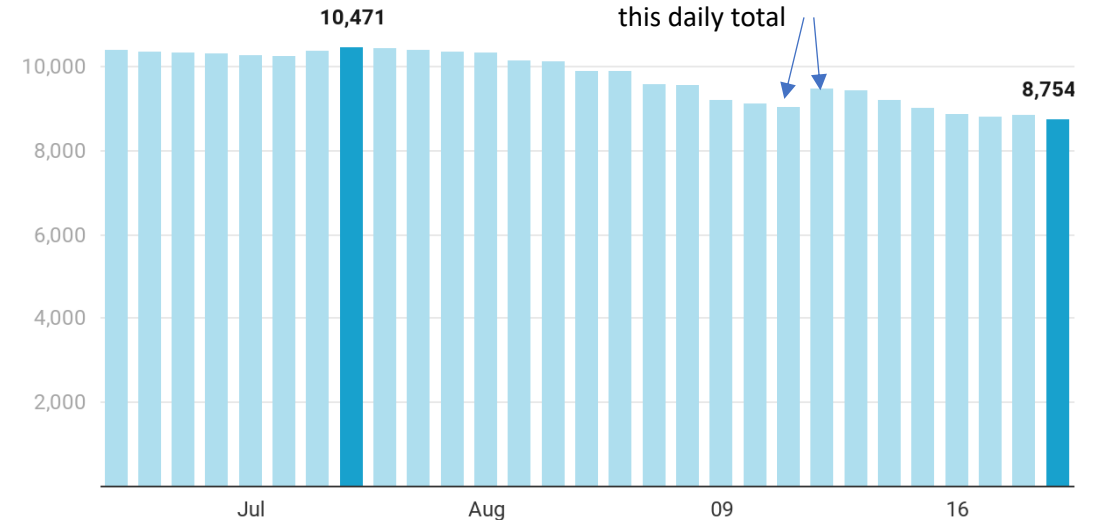
As of August 19



Florida data first available on July 10

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

COVID-19 ICU Census



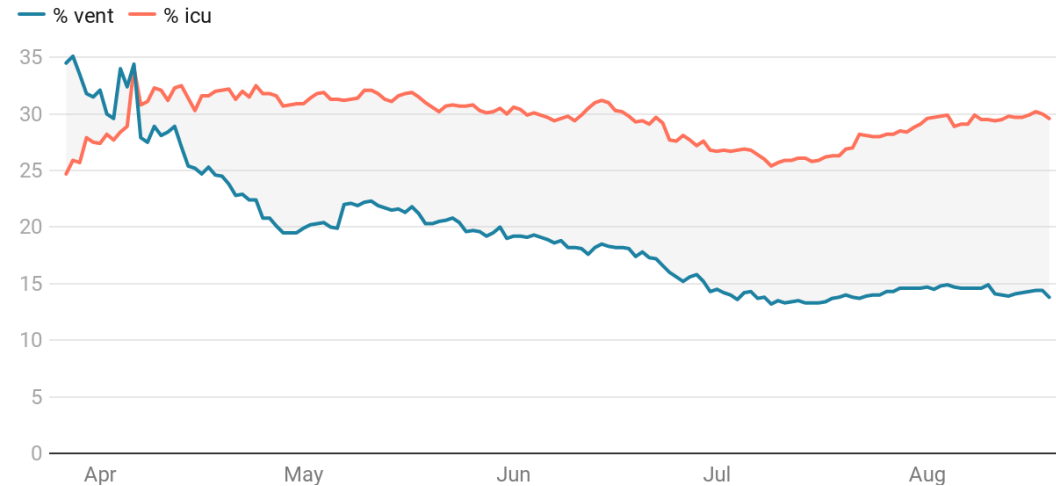
For states reporting these data: AZ, CA, ID, IL, IN, IA, KS, KY, ME, MD, MA, MI, MN, MS, NV, NJ, NY, NC, OH, OK, OR, RI, SC, TX, UT, VA, WI & WY

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

As hospital census declines, % in ICU and on ventilators is stable

Severity of Hospitalized Patients

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



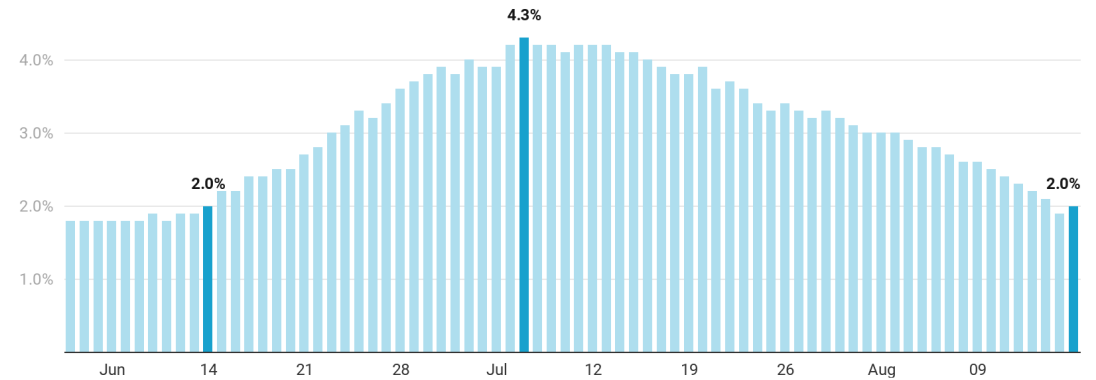
Health Industry Advisor LLC analysis

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

ER Visits are also down since early July

% of Emergency Department Visits for COVID-Like Illness

As of August 16



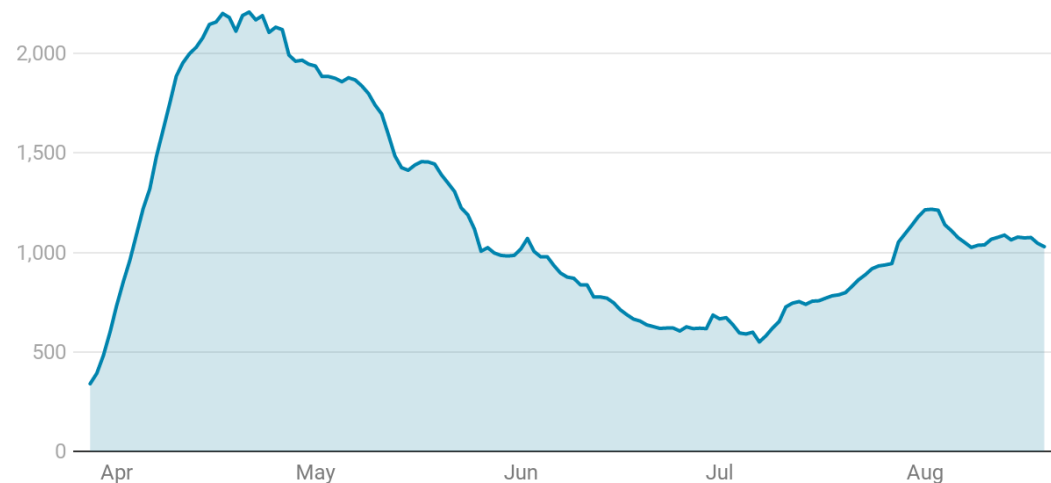
Health Industry Advisor LLC analysis

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

Deaths reported yesterday were lower than each of the three most recent Wednesdays, but higher than Wednesdays in June and most of July; Weekly average is its lowest in 11 days

Deaths Recorded With Coronavirus in the U.S.

Trailing 7-Day Moving Average, As of August 19



Health Industry Advisor LLC analysis

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

Wednesdays Highlighted

Daily Deaths Reported

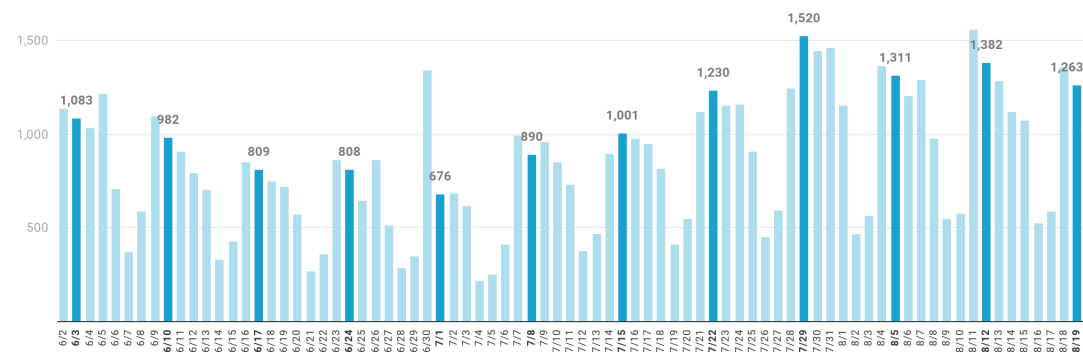


Chart: Health Industry Advisor LLC • Created with Datawrapper

State-By-State Statistical Summary (page 1 of 3)

States

As of August 19

State	Total Cases	Rank, Cases	Cases per 1M Population	Rank, Cases/1M	Deaths	Rank, Deaths	Death Rate	Rank, Death Rate	Deaths per 1 Million Population	Rank, Deaths/1M	5-day Moving Average Case Growth Rate	Rank, Case Growth	Tests per 1M Population Past 7 days	Rank, Tests/1M	New Daily Cases Per 1M Population (5-Day M.A.)	Rank, New Cases/1M	Tests / New Case	Rank, Tests / New Case
Alabama	111,478	(14)	22,736	(7)	1,944	(21)	1.7%	(34)	396	(19)	1.0%	(21)	2,610	(16)	195	(8)	13	(32)
Alaska	4,438	(48)	6,067	(43)	29	(51)	0.7%	(51)	40	(50)	1.7%	(2)	3,567	(4)	109	(29)	33	(13)
Arizona	195,557	(7)	26,867	(3)	4,634	(11)	2.4%	(23)	637	(10)	0.4%	(44)	1,315	(41)	120	(27)	11	(37)
Arkansas	54,216	(27)	17,965	(15)	631	(34)	1.2%	(44)	209	(34)	0.7%	(32)	3,205	(10)	147	(19)	22	(17)
California	647,209	(1)	16,380	(21)	11,686	(3)	1.8%	(31)	296	(28)	1.1%	(14)	3,027	(12)	189	(10)	16	(23)
Colorado	53,901	(28)	9,360	(40)	1,900	(22)	3.5%	(16)	330	(24)	0.5%	(38)	1,055	(47)	53	(44)	20	(20)
Connecticut	51,314	(30)	14,393	(25)	4,457	(13)	8.7%	(1)	1,250	(4)	0.2%	(50)	3,331	(7)	24	(48)	137	(2)
Delaware	16,643	(40)	17,091	(17)	595	(36)	3.6%	(14)	611	(12)	0.4%	(45)	1,859	(27)	129	(22)	14	(29)
District Of Columbia	13,354	(41)	18,922	(14)	600	(35)	4.5%	(9)	850	(7)	0.4%	(46)	5,044	(1)	80	(37)	63	(6)
Florida	584,047	(3)	27,193	(2)	9,938	(5)	1.7%	(36)	463	(16)	0.7%	(30)	1,454	(36)	220	(6)	7	(47)
Georgia	243,982	(5)	22,979	(6)	4,849	(10)	2.0%	(28)	457	(18)	1.0%	(18)	2,139	(20)	240	(3)	9	(44)
Hawaii	5,609	(47)	3,962	(49)	42	(49)	0.7%	(50)	30	(51)	4.3%	(1)	1,602	(33)	167	(13)	10	(41)
Idaho	28,696	(36)	16,013	(23)	291	(42)	1.0%	(47)	162	(41)	1.1%	(13)	1,346	(39)	204	(7)	7	(48)
Illinois	213,221	(6)	16,826	(19)	8,017	(7)	3.8%	(12)	633	(11)	0.9%	(26)	3,380	(6)	150	(18)	22	(16)
Indiana	82,336	(20)	12,230	(30)	3,180	(16)	3.9%	(10)	472	(15)	0.9%	(23)	1,423	(37)	123	(25)	12	(35)
Iowa	53,312	(29)	16,897	(18)	1,006	(30)	1.9%	(29)	319	(25)	0.9%	(24)	1,547	(34)	158	(16)	10	(40)
Kansas	36,244	(34)	12,441	(29)	414	(38)	1.1%	(45)	142	(42)	1.2%	(11)	1,239	(44)	166	(14)	7	(46)
Kentucky	40,926	(33)	9,160	(42)	842	(31)	2.1%	(27)	188	(36)	1.3%	(7)	1,792	(28)	127	(24)	14	(30)
Louisiana	139,903	(10)	30,094	(1)	4,609	(12)	3.3%	(17)	991	(5)	0.5%	(41)	3,269	(9)	172	(12)	19	(21)
Maine	4,234	(49)	3,150	(50)	127	(46)	3.0%	(19)	94	(45)	0.6%	(36)	1,926	(26)	17	(49)	111	(3)

Table: Health Industry Advisor LLC • Created with Datawrapper

State-By-State Statistical Summary (page 2 of 3)

States

As of August 19

State	Total Cases	Rank, Cases	Cases per 1M Population	Rank, Cses/1 M	Deaths	Rank, Deaths	Death Rate	Rank, Death Rate	Deaths per 1 Million Population	Rank, Deaths/1 M	5-day Moving Average Case Growth Rate	Rank, Case Growth	Tests per 1M Population Past 7 days	Rank, Tests/1 M	New Daily Cases Per 1M Population (5-Day M.A.)	Rank, New Cases/1 M	Tests / New Case	Ra
Maryland	101,649	(19)	16,813	(20)	3,661	(15)	3.6%	(13)	606	(13)	0.6%	(37)	2,290	(18)	101	(32)	23	(15)
Massachusetts	124,415	(13)	17,903	(16)	8,876	(6)	7.1%	(4)	1,277	(3)	0.3%	(47)	2,766	(14)	50	(45)	56	(7)
Michigan	104,091	(18)	10,423	(37)	6,618	(9)	6.4%	(5)	663	(9)	0.7%	(35)	3,052	(11)	77	(39)	39	(12)
Minnesota	66,618	(25)	11,812	(32)	1,784	(24)	2.7%	(21)	316	(26)	0.9%	(25)	1,726	(31)	109	(28)	16	(24)
Mississippi	74,555	(21)	25,051	(4)	2,163	(20)	2.9%	(20)	727	(8)	1.0%	(19)	908	(49)	249	(2)	4	(50)
Missouri	71,523	(22)	11,654	(34)	1,499	(25)	2.1%	(26)	244	(30)	1.6%	(3)	1,774	(30)	195	(9)	9	(43)
Montana	5,956	(46)	5,573	(46)	84	(47)	1.4%	(41)	79	(48)	1.5%	(6)	1,403	(38)	92	(33)	15	(27)
Nebraska	31,040	(35)	16,046	(22)	371	(41)	1.2%	(43)	192	(35)	0.7%	(31)	1,471	(35)	133	(21)	11	(36)
Nevada	63,028	(26)	20,463	(10)	1,134	(27)	1.8%	(32)	368	(20)	1.1%	(16)	1,345	(40)	231	(5)	6	(49)
New Hampshire	7,036	(45)	5,175	(47)	427	(37)	6.1%	(6)	314	(27)	0.2%	(48)	794	(50)	16	(50)	51	(9)
New Jersey	194,276	(8)	21,873	(8)	16,030	(2)	8.3%	(2)	1,805	(1)	0.2%	(49)	2,922	(13)	45	(46)	66	(5)
New Mexico	23,749	(38)	11,326	(36)	729	(32)	3.1%	(18)	348	(22)	0.5%	(39)	3,281	(8)	64	(40)	52	(8)
New York	457,600	(4)	23,523	(5)	32,937	(1)	7.2%	(3)	1,693	(2)	0.2%	(51)	3,994	(3)	37	(47)	107	(4)
North Carolina	148,966	(9)	14,203	(26)	2,463	(17)	1.7%	(37)	235	(32)	0.9%	(22)	2,109	(21)	135	(20)	16	(25)
North Dakota	8,968	(43)	11,768	(33)	130	(45)	1.4%	(40)	171	(40)	1.5%	(4)	1,782	(29)	187	(11)	10	(42)
Ohio	110,897	(15)	9,487	(39)	3,910	(14)	3.5%	(15)	334	(23)	0.8%	(27)	1,957	(25)	81	(36)	24	(14)
Oklahoma	49,923	(31)	12,616	(28)	699	(33)	1.4%	(42)	177	(38)	1.3%	(9)	2,189	(19)	163	(15)	13	(31)
Oregon	23,870	(37)	5,659	(45)	408	(39)	1.7%	(35)	97	(44)	1.1%	(15)	1,308	(42)	63	(42)	21	(18)
Pennsylvania	130,950	(12)	10,229	(38)	7,619	(8)	5.8%	(7)	595	(14)	0.5%	(40)	1,131	(46)	56	(43)	20	(19)
Rhode Island	20,795	(39)	19,630	(13)	1,027	(29)	4.9%	(8)	969	(6)	0.4%	(42)	4,340	(2)	90	(34)	48	(10)

Table: Health Industry Advisor LLC • Created with Datawrapper

State-By-State Statistical Summary (page 3 of 3)

States

As of August 19

State	Total Cases	Rank, Cases	Cases per 1M Population	Rank, Cses/1 M	Deaths	Rank, Deaths	Death Rate	Rank, Death Rate	Deaths per 1 Million Population	Rank, Deaths/1 M	5-day Moving Average Case Growth Rate	Rank, Case Growth	Tests per 1M Population Past 7 days	Rank, Tests/1 M	New Daily Cases Per 1M Population (5-Day M.A.)	Rank, New Cases/1 M	Tests / New Case	Ran
South Carolina	108,411	(17)	21,056	(9)	2,360	(19)	2.2%	(25)	458	(17)	0.7%	(33)	2,332	(17)	151	(17)	15	(26)
South Dakota	10,566	(42)	11,944	(31)	155	(44)	1.5%	(39)	175	(39)	1.1%	(17)	1,198	(45)	121	(26)	10	(39)
Tennessee	137,800	(11)	20,166	(12)	1,452	(26)	1.1%	(46)	212	(33)	1.1%	(12)	3,539	(5)	238	(4)	15	(28)
Texas	585,454	(2)	20,191	(11)	10,517	(4)	1.8%	(33)	363	(21)	1.3%	(8)	2,024	(22)	259	(1)	8	(45)
Utah	47,521	(32)	14,823	(24)	377	(40)	0.8%	(49)	118	(43)	0.7%	(34)	1,299	(43)	108	(31)	12	(34)
Vermont	1,533	(51)	2,457	(51)	58	(48)	3.8%	(11)	93	(46)	0.4%	(43)	2,020	(23)	13	(51)	160	(1)
Virginia	109,019	(16)	12,772	(27)	2,410	(18)	2.2%	(24)	282	(29)	0.8%	(28)	1,999	(24)	109	(30)	18	(22)
Washington	70,708	(23)	9,285	(41)	1,822	(23)	2.6%	(22)	239	(31)	0.8%	(29)	77	(51)	79	(38)	1	(51)
West Virginia	8,801	(44)	4,925	(48)	166	(43)	1.9%	(30)	93	(47)	1.2%	(10)	2,757	(15)	63	(41)	43	(11)
Wisconsin	67,493	(24)	11,592	(35)	1,060	(28)	1.6%	(38)	182	(37)	1.0%	(20)	1,617	(32)	128	(23)	13	(33)
Wyoming	3,430	(50)	5,926	(44)	34	(50)	1.0%	(48)	59	(49)	1.5%	(5)	929	(48)	85	(35)	11	(38)
United States	5,700,931		17,087		176,337		3.1%		532		0.8%		2,254		147		16	

Table: Health Industry Advisor LLC • Created with Datawrapper

Worldwide Statistical Summary – Countries Ranked 1-20 in Total Cases

Countries, Ranked By Total Cases

As of August 19

Country	Total Cases	Rank, Total Cases	Cases per 1M Population	Rank, Cases/1M	Deaths	Rank, Deaths	Death Rate	Rank, Death Rate	Deaths per 1 Million Population	Rank, Deaths/1M	5-day Moving Average Case Growth Rate	Rank, Case Growth	Tests per 1M Population - Past 7 Days	Rank, Tests/1M	New Daily Infections Per 1M Population (7-Day M.A.)	Rank, New Inf/1 M	New Daily Infections - 1 week ago	Rank, New Inf/1 M Last Wk	Week-over-week Change	New Inf/1 M 2 Weeks Ago	Rank, New Inf/1M 2 Weeks Ago	Week-over-week Change - 2 Weeks
USA	5,700,931	(1)	17,209	(8)	176,337	(1)	3.1%	(67)	532	(10)	0.8%	(108)	2,396	(18)	147	(14)	166	(12)	-11	176	(9)	-16
Brazil	3,460,413	(2)	16,264	(11)	111,189	(2)	3.2%	(62)	523	(11)	1.1%	(83)	333	(109)	195	(9)	207	(9)	-6	206	(3)	-6
India	2,835,822	(3)	2,052	(89)	53,994	(4)	1.9%	(114)	39	(86)	2.3%	(38)	592	(79)	46	(52)	45	(53)	2	39	(51)	16
Russia	937,321	(4)	6,423	(39)	15,989	(11)	1.7%	(124)	110	(49)	0.5%	(129)	1,869	(27)	34	(68)	35	(63)	-4	37	(54)	-8
South Africa	596,060	(5)	10,033	(20)	12,423	(13)	2.1%	(103)	209	(30)	0.6%	(124)	383	(100)	65	(36)	94	(23)	-30	141	(11)	-54
Peru	558,420	(6)	16,905	(9)	26,834	(9)	4.8%	(33)	812	(3)	1.6%	(55)	899	(57)	259	(4)	220	(6)	18	203	(4)	28
Mexico	531,239	(7)	4,114	(57)	57,774	(3)	10.9%	(8)	447	(13)	1.0%	(95)	93	(135)	43	(54)	47	(50)	-9	52	(42)	-18
Colombia	502,178	(8)	9,855	(21)	15,979	(12)	3.2%	(64)	314	(20)	2.4%	(35)	879	(58)	223	(7)	215	(7)	4	195	(6)	14
Chile	390,037	(9)	20,380	(5)	10,578	(14)	2.7%	(80)	553	(9)	0.4%	(143)	1,329	(42)	89	(26)	100	(22)	-12	98	(20)	-10
Spain	387,985	(10)	8,298	(26)	28,797	(8)	7.4%	(15)	616	(5)	1.6%	(56)	1,477	(40)	34	(67)	73	(32)	-54	71	(29)	-52
Iran	350,279	(11)	4,163	(56)	20,125	(10)	5.7%	(25)	239	(26)	0.7%	(118)	299	(112)	28	(73)	28	(72)	2	32	(58)	-11
UK	321,098	(12)	4,727	(52)	41,397	(5)	12.9%	(5)	609	(6)	0.3%	(155)	-8,164	(215)	15	(97)	14	(94)	10	12	(100)	27
Argentina	312,659	(13)	6,909	(33)	6,330	(19)	2.0%	(105)	140	(41)	2.1%	(46)	382	(101)	139	(16)	151	(14)	-8	132	(14)	6
Saudi Arabia	302,686	(14)	8,677	(24)	3,506	(30)	1.2%	(150)	101	(53)	0.5%	(138)	1,817	(29)	40	(57)	42	(56)	-5	42	(49)	-6
Pakistan	290,445	(15)	1,312	(107)	6,201	(20)	2.1%	(101)	28	(99)	0.2%	(167)	99	(134)	3	(147)	3	(138)	-5	3	(136)	-7
Bangladesh	285,091	(16)	1,729	(93)	3,781	(29)	1.3%	(144)	23	(108)	1.0%	(96)	78	(138)	16	(93)	17	(87)	-6	13	(96)	28
Italy	255,278	(17)	4,223	(55)	35,412	(6)	13.9%	(3)	586	(7)	0.2%	(173)	812	(63)	8	(115)	7	(114)	23	5	(128)	76
Turkey	253,108	(18)	2,997	(79)	6,039	(24)	2.4%	(93)	72	(62)	0.5%	(133)	869	(59)	15	(99)	14	(93)	5	12	(99)	21
Germany	229,700	(19)	2,740	(81)	9,314	(16)	4.1%	(45)	111	(48)	0.5%	(130)	2,744	(16)	15	(98)	11	(98)	31	9	(110)	67
France	225,043	(20)	3,447	(71)	30,468	(7)	13.5%	(4)	467	(12)	1.2%	(75)	1,093	(50)	40	(56)	28	(71)	45	19	(78)	108

Rankings are v. the 215 countries with a case
Table: Health Industry Advisor LLC - Created with Datawrapper

Worldwide Statistical Summary – Countries Ranked 21-40 in Total Cases

Countries, Ranked By Total Cases

As of August 19

Country	Total Cases	Rank, Total Cases	Cases per 1M Population	Rank, Cases/1M	Deaths	Rank, Deaths	Death Rate	Rank, Death Rate	Deaths per 1 Million Population	Rank, Deaths/1M	5-day Moving Average Case Growth Rate	Rank, Case Growth	Tests per 1M Population - Past 7 Days	Rank, Tests/1M	New Daily Infections Per 1M Population (7-Day M.A.)	Rank, New Inf/1M	New Daily Infections - 1 week ago	Rank, New Inf/1M Last Wk	Week-over-week Change	New Inf/1M 2 Weeks Ago	Rank, New Inf/1M 2 Weeks Ago	Week-over-week Change - 2 Weeks
Iraq	188,802	(21)	4,680	(53)	6,121	(23)	3.2%	(61)	152	(38)	2.3%	(40)	499	(85)	100	(23)	81	(28)	24	68	(31)	47
Philippines	173,683	(22)	1,582	(97)	2,795	(32)	1.6%	(131)	25	(101)	2.5%	(32)	403	(96)	39	(58)	36	(61)	9	40	(50)	-1
Indonesia	144,945	(23)	529	(145)	6,346	(18)	4.4%	(38)	23	(106)	1.4%	(64)	68	(142)	7	(120)	7	(112)	3	6	(117)	14
Canada	123,490	(24)	3,268	(76)	9,049	(17)	7.3%	(16)	239	(25)	0.3%	(154)	1,299	(43)	10	(109)	10	(107)	0	10	(107)	-3
Qatar	115,956	(25)	41,298	(1)	193	(85)	0.2%	(190)	69	(63)	0.2%	(165)	1,629	(36)	103	(22)	109	(20)	-5	84	(24)	22
Ecuador	104,475	(26)	5,910	(44)	6,146	(22)	5.9%	(24)	348	(19)	1.0%	(91)	170	(126)	60	(42)	67	(35)	-11	46	(47)	30
Kazakhstan	103,571	(27)	5,507	(47)	1,415	(43)	1.4%	(141)	75	(61)	0.3%	(153)	817	(62)	21	(88)	45	(52)	-54	66	(34)	-69
Bolivia	103,019	(28)	8,809	(23)	4,172	(28)	4.0%	(46)	357	(18)	1.3%	(68)	283	(114)	118	(21)	122	(18)	-3	135	(13)	-12
Israel	97,969	(29)	10,652	(19)	781	(51)	0.8%	(162)	85	(56)	1.5%	(62)	2,397	(17)	152	(12)	159	(13)	-4	149	(10)	2
Egypt	96,914	(30)	945	(121)	5,197	(26)	5.4%	(28)	51	(76)	0.1%	(178)	0	(164)	1	(163)	2	(156)	-13	2	(143)	-37
Ukraine	96,403	(31)	2,206	(87)	2,144	(34)	2.2%	(98)	49	(79)	1.9%	(51)	393	(99)	39	(60)	30	(68)	31	26	(68)	50
Dominican Republic	88,127	(32)	8,113	(28)	1,501	(41)	1.7%	(125)	138	(42)	0.8%	(104)	350	(106)	78	(31)	86	(26)	-10	125	(15)	-38
Sweden	85,411	(33)	8,450	(25)	5,802	(25)	6.8%	(18)	574	(8)	0.3%	(163)	797	(67)	28	(75)	27	(73)	2	25	(70)	11
China	84,888	(34)	59	(198)	4,634	(27)	5.5%	(26)	3	(169)	0.0%	(193)	0	(164)	0	(197)	0	(186)	-39	0	(191)	-65
Panama	83,754	(35)	19,371	(6)	1,827	(37)	2.2%	(99)	423	(14)	1.1%	(85)	791	(68)	211	(8)	236	(4)	-11	230	(2)	-8
Oman	83,606	(36)	16,319	(10)	603	(59)	0.7%	(166)	118	(47)	0.2%	(169)	-4	(211)	36	(64)	56	(46)	-35	48	(45)	-24
Belgium	78,897	(37)	6,804	(34)	9,959	(15)	12.6%	(6)	859	(2)	0.7%	(116)	1,664	(35)	48	(47)	54	(47)	-11	49	(44)	-2
Kuwait	78,145	(38)	18,263	(7)	507	(65)	0.6%	(169)	118	(46)	0.8%	(113)	976	(55)	146	(15)	146	(16)	0	118	(16)	24
Romania	73,617	(39)	3,830	(61)	3,106	(31)	4.2%	(41)	162	(35)	1.6%	(54)	1,035	(51)	63	(37)	64	(37)	-2	62	(38)	2
Belarus	69,801	(40)	7	(32)	622	(56)	0.9%	(158)	66	(66)	0.1%	(181)	803	(65)	11	(106)	11	(103)	-4	13	(92)	-18

Rankings are v. the 215 countries with a case
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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>
- COVID-19 Projections Using Machine Learning, <https://covid19-projections.com>