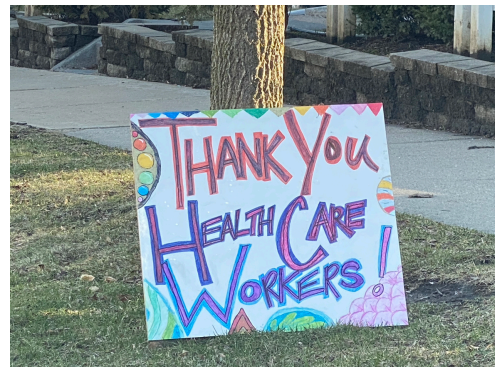
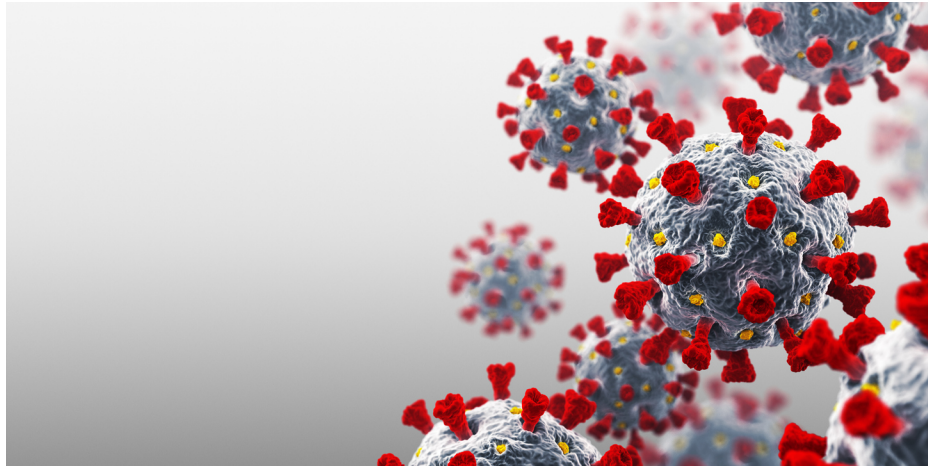
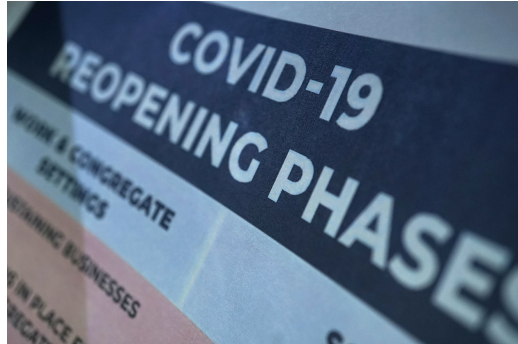




# COVID-19 Report

Issue # 112

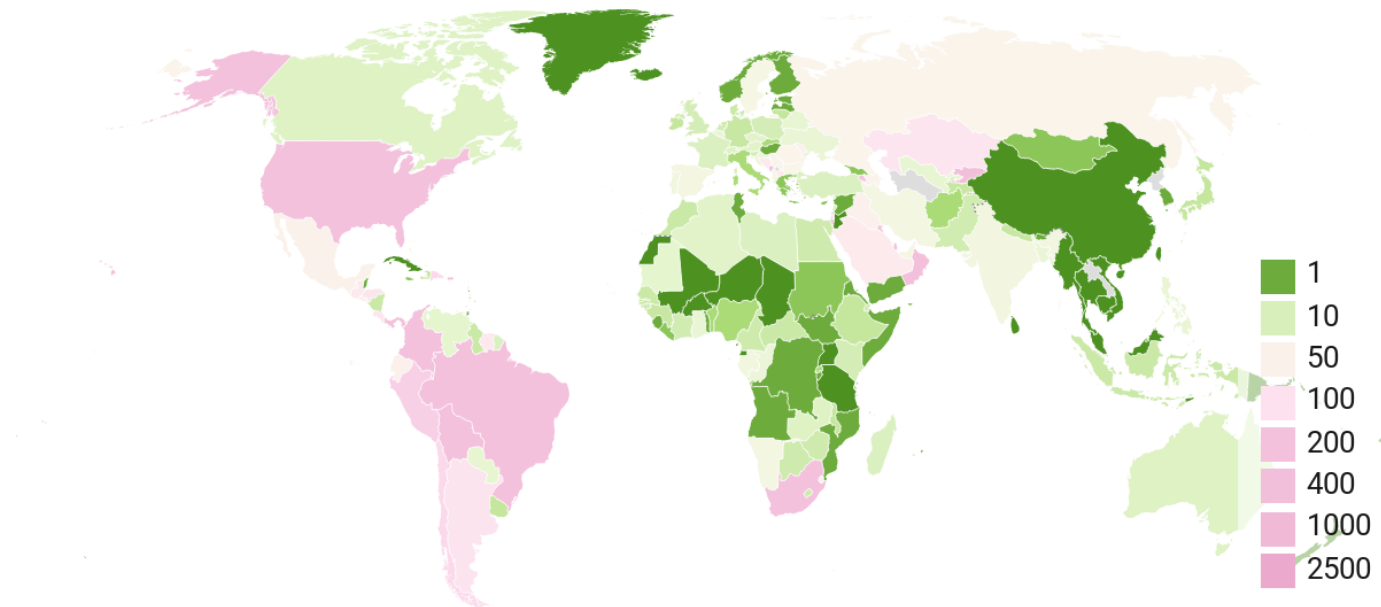
Wednesday, July 22, 2020

- The United States surpassed 4 million total cases yesterday, adding 67,000 new cases on the day. California, Texas and Florida accounted for 44% of these new cases
- Total cases worldwide surpassed 15 million yesterday. United States, Brazil and India accounted for nearly two-thirds of the new cases reported yesterday
- Test-positive rates are on a 9-day downward trend for U.S. overall, following a 2x increase from early June to early-mid July
- Daily case growth, on a % basis, has followed a similar pattern: increasing from early June to early July but, now declining
- These improvements are now translating to an early and modest slowdown in new cases: these are now 5 days removed from their peak level
- The United States continues to report the highest rate of new infections per capita (trailing 7-day moving average) among the 30 countries with the most total cases. Still, this rate seems to have stabilized over the past six days, following a 5-week period of accelerated growth
- New daily infections per capita continue to be highest in southern and western states
  - Florida has the highest rate over the past 7 days, followed in order by Louisiana, Mississippi and Arizona
  - Observing the maps of infection rates by county in these 4 states plus California and Texas (the two states with the most new cases) provides some curious perspectives:
    - In California and Texas, both states with large geographies, there are significant differences in infection rates across the states. In both cases, infection rates are concentrated in counties in the south, with relatively low rates in northern counties
    - In Florida and Louisiana, infection rates are high in most counties statewide
    - In Mississippi, infection rates are relatively high statewide, however, the highest concentration is to the north and west of Jackson
- Hospitalizations remain high in California, Florida and Texas, and are still increasing day-over-day in Florida; they are declining in Arizona. The rate of patients on ventilators has stabilized; the rate of patients in the ICU has increased slightly
- Deaths have increased on a 7-day moving average basis yet, remain significantly lower than during March and April. The overall death rate has declined to 3.6%. Recoveries now outnumber deaths by 13:1

# Infection rates are highest in the United States, South Africa and South America

## New Infections / 1 Million Population

Trailing 7-Day Moving Average, As of July 21



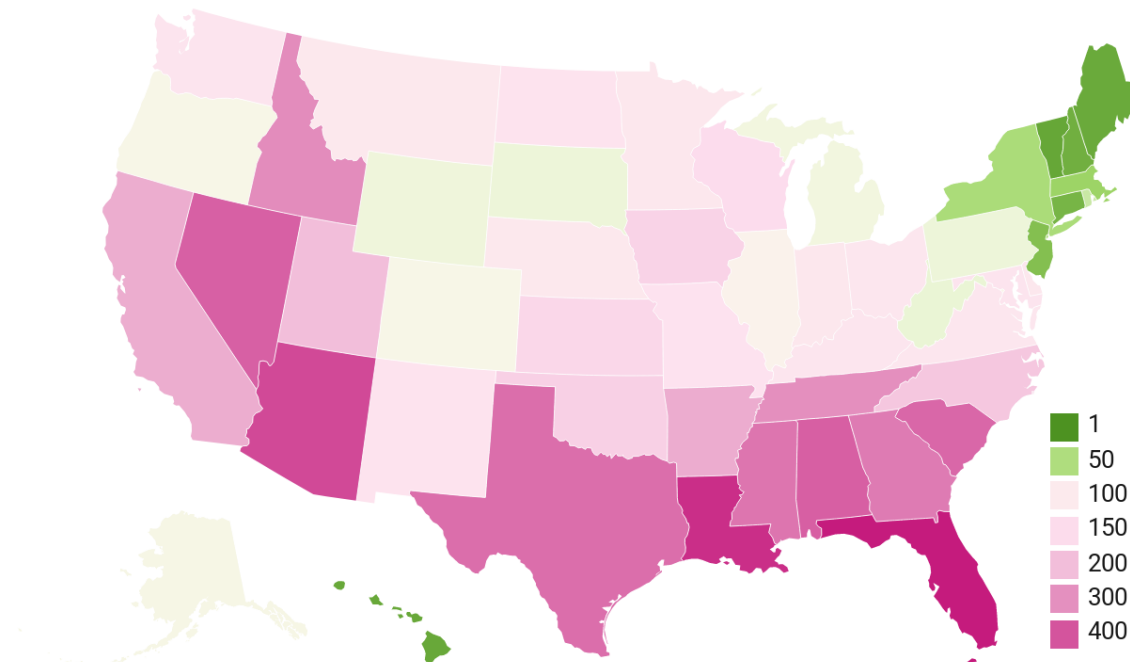
*Health Industry Advisor LLC analysis*

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

# The new daily infection rate remains high in the South and West; lowest in the Northeast

## New Infections Per 1 Million Population

Trailing 7-Day Moving Average, As of July 21



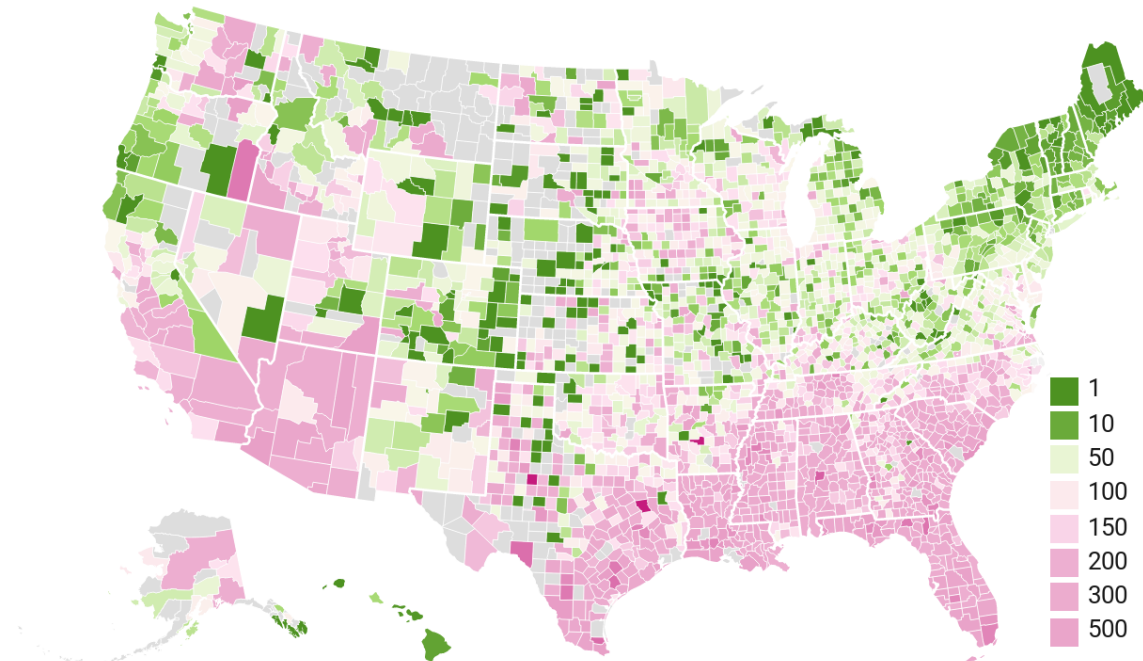
*Health Industry Advisor LLC analysis*

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

# New Infections rates are highest in the South and West

## New Daily Infections Per Million Population

Trailing 7-Day Moving Average, As of July 20



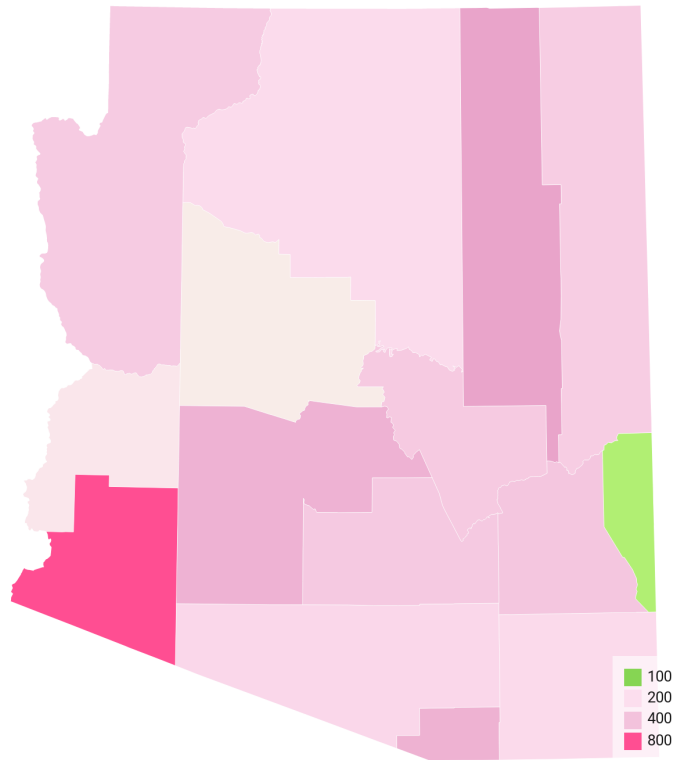
Health Industry Advisor LLC analysis

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

# New Daily Infections / 1 Million Population By County

## New Daily Infections / 1 Million Population

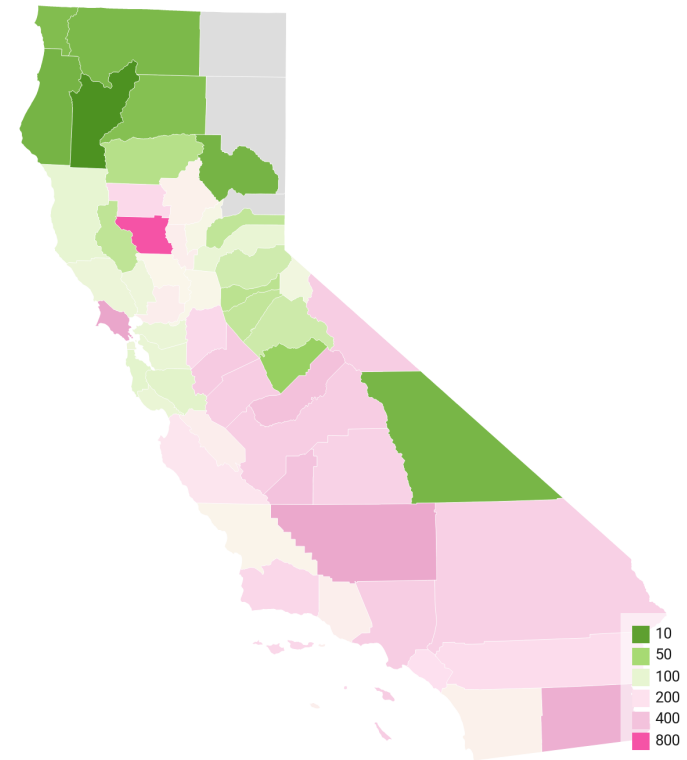
Trailing 7-Day Moving Average, As of July 20



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 July 20



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

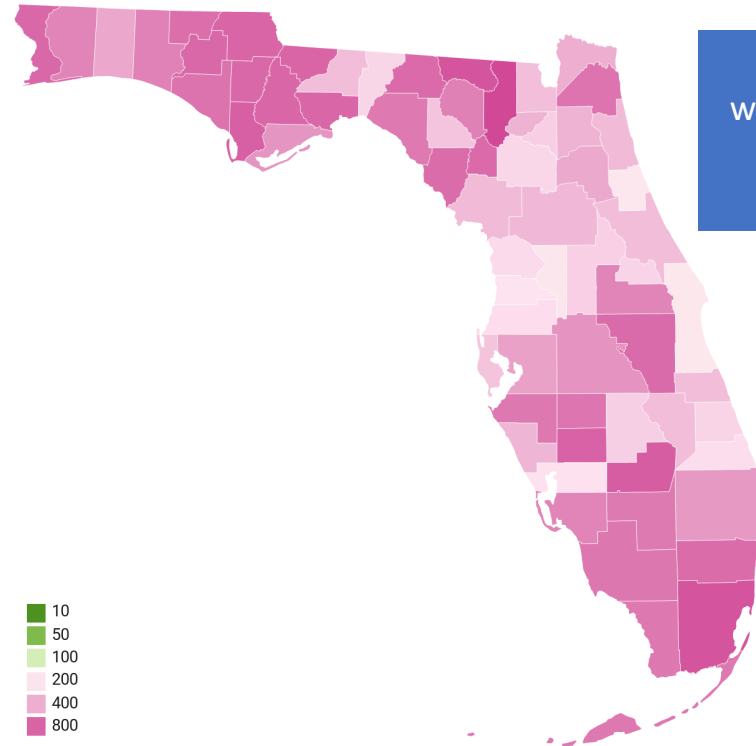
Infection rates across the state are concentrated in California



# New Daily Infections / 1 Million Population By County

## New Daily Infections / 1 Million Population

Trailing 7-Day Moving Average, As of July 20



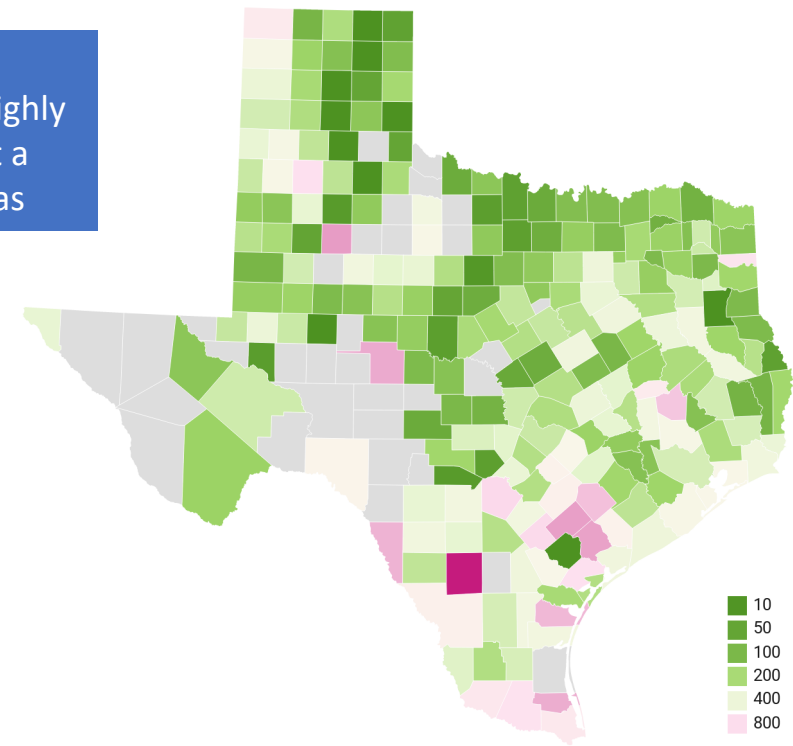
Health Industry Advisor LLC analysis

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

High infection rates  
widespread in Florida; highly  
concentrated in about a  
dozen counties in Texas

## New Daily Infections / 1 Million Population

Trailing 7-Day Moving Average, As of July 20



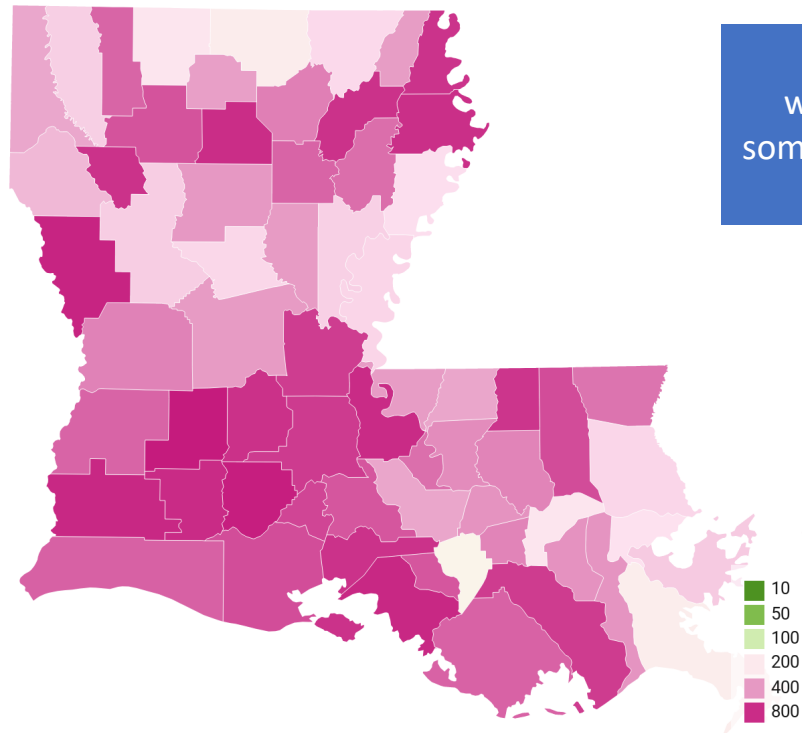
Health Industry Advisor LLC analysis

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

# New Daily Infections / 1 Million Population By County

## New Daily Infections / Million Population

Trailing 7-Day Moving Average, As of July 20



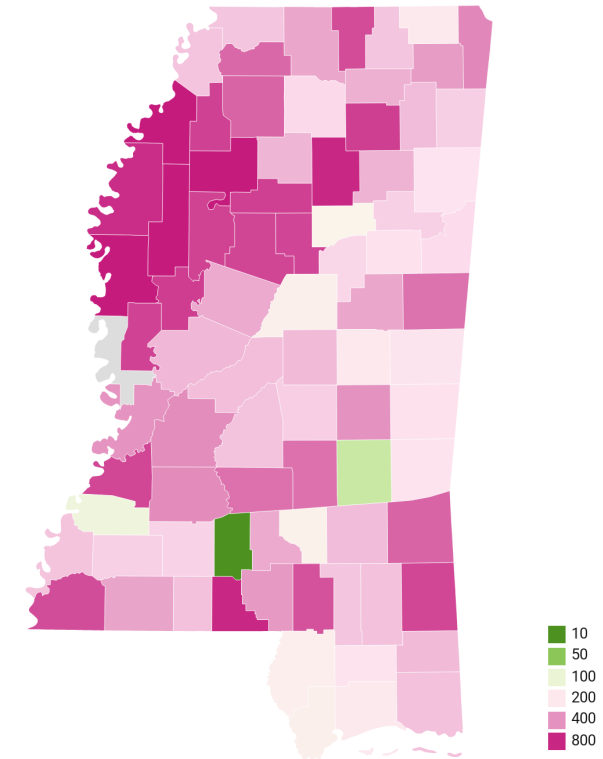
High infection rates  
widespread in Louisiana;  
somewhat more concentrated  
in Mississippi

Health Industry Advisor LLC analysis

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

## New Daily Infections / Million Population

Trailing 7-Day Moving Average, As of July 20



Health Industry Advisor LLC analysis

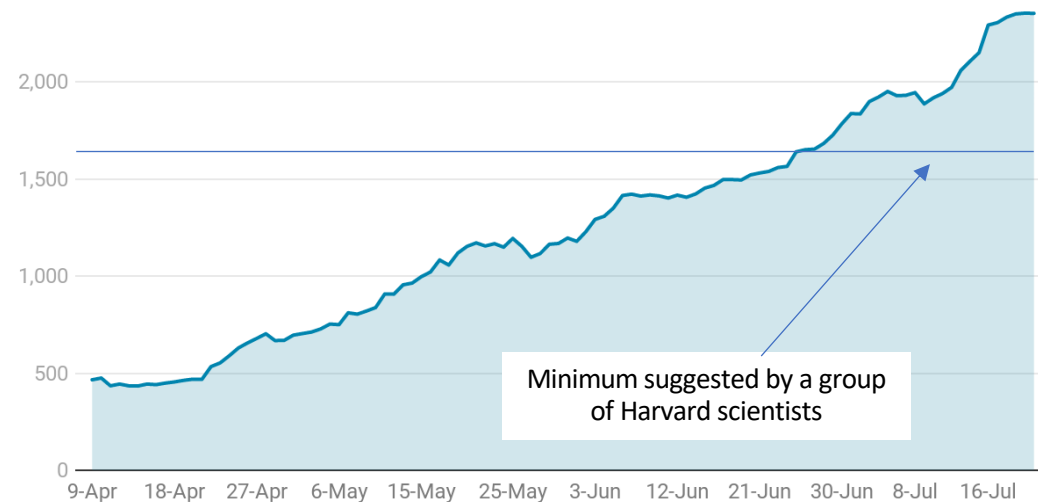
Map: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper



## 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 21

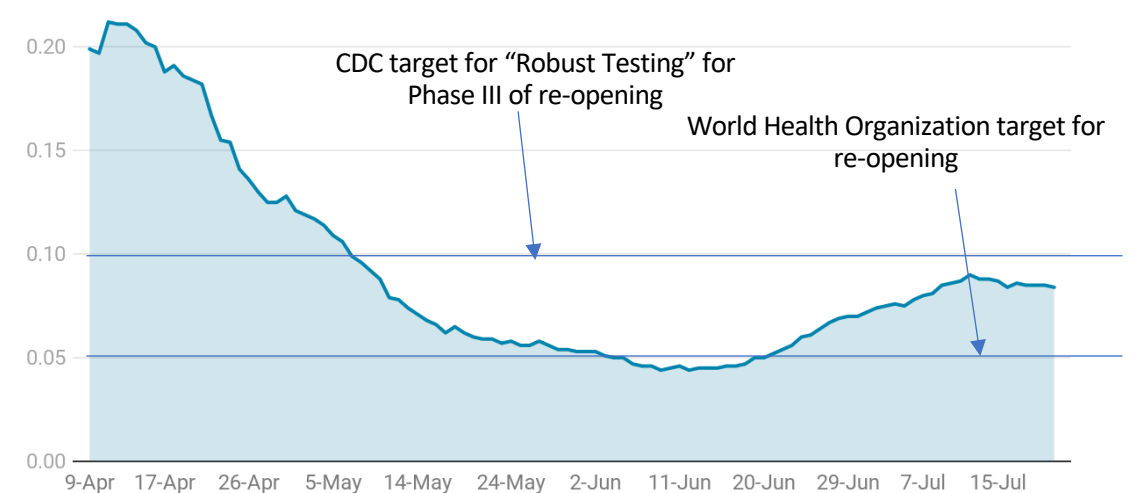


Health Industry Advisor LLC analysis

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 21



Health Industry Advisor LLC analysis

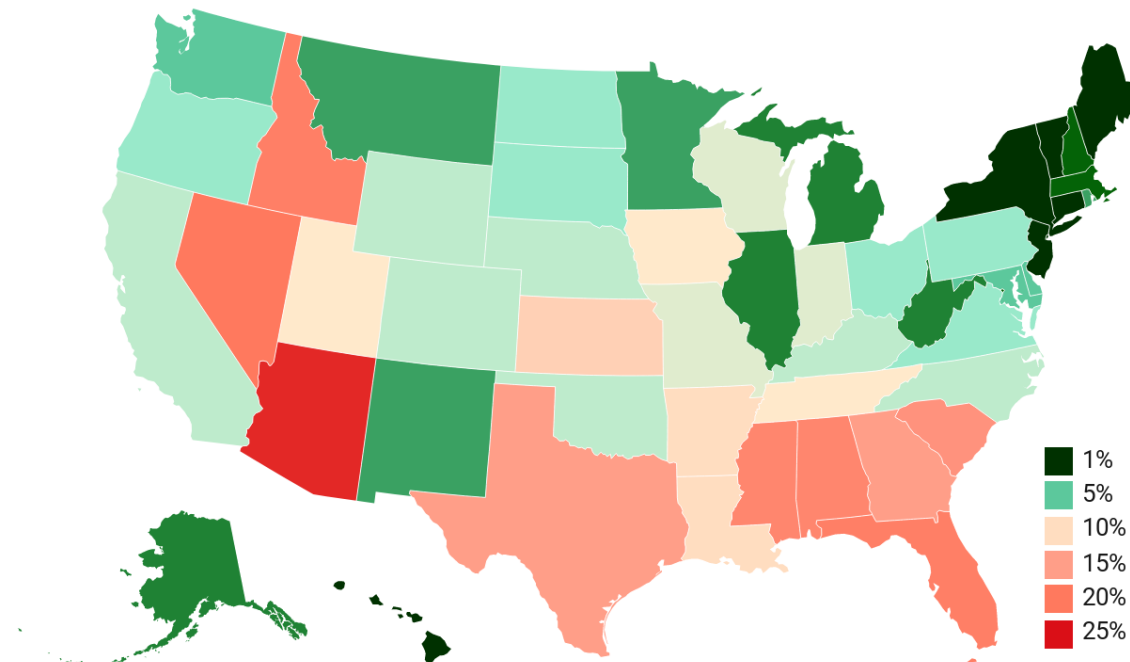
Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

*State-By-State*

Test-Positive Rates continue to be high in several Southern states;  
reasonably strong across the Northeast, Midwest and Pacific  
Northwest

**Test-Positive Rate**

Trailing 7-Day Moving Average, As of July 21



*Health Industry Advisor LLC analysis*

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

After rising throughout June and early July, case growth leveled and now has begun to decline again

### Daily Case Growth %

As of July 21



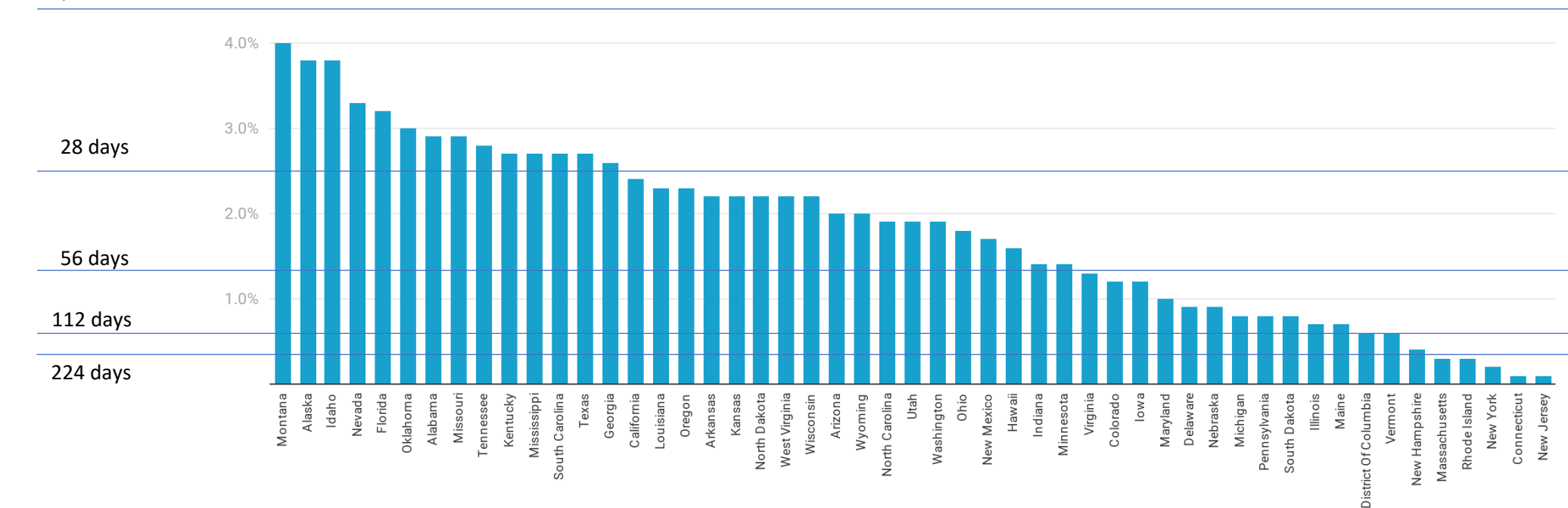
*Health Industry Advisor LLC analysis*

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

### Growth Rate in Total Cases

14 days to double

Trailing 5-Day Moving Average, As of July 21



Health Industry Advisor LLC analysis

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

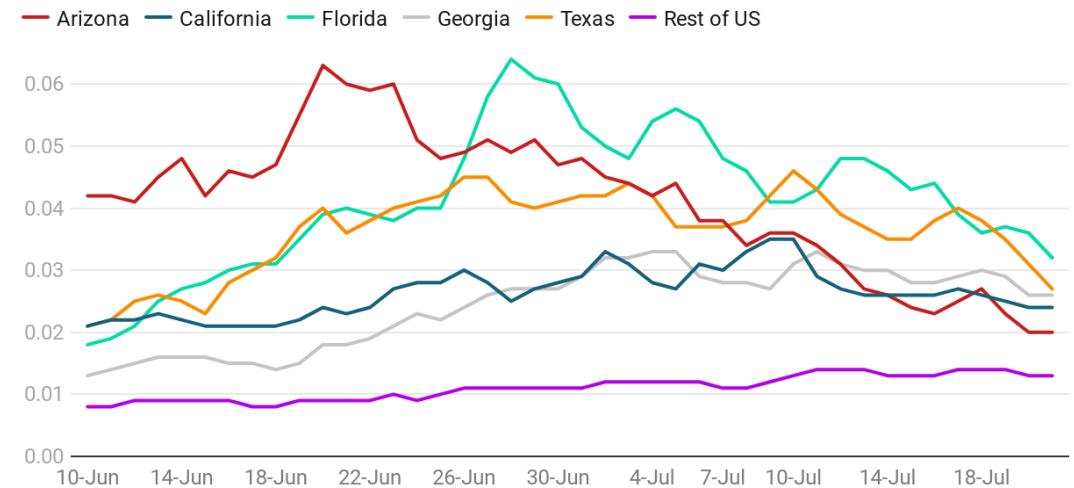
## Sustained declines in the rate of case growth in hard-hit states - a leading indicator - is encouraging

**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

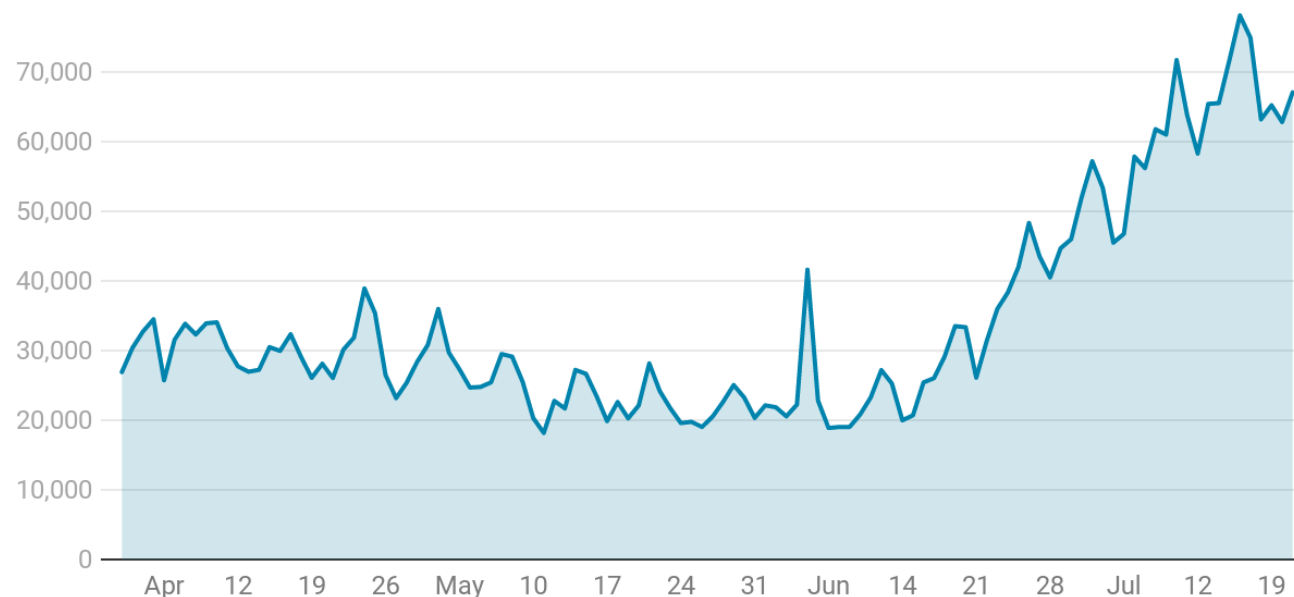
Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

*United States*

New cases have fallen off a peak of 5 days ago . . .will this trend be sustained?

## New Daily Cases - United States

As of July 21



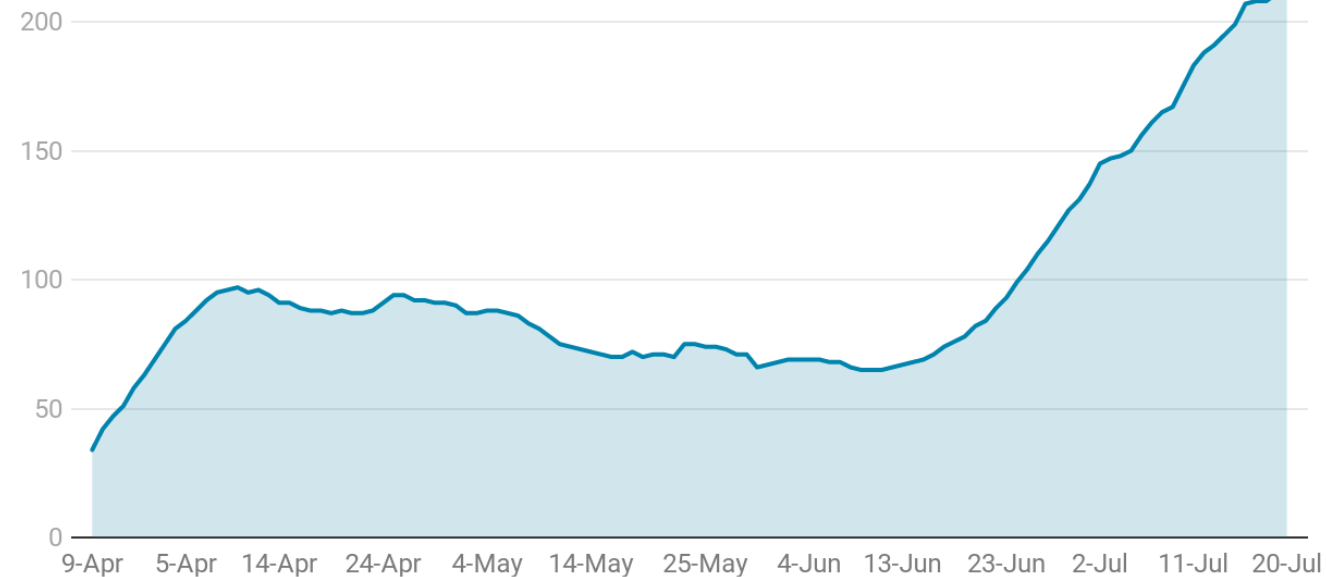
*Health Industry Advisor LLC analysis*

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

## The new daily infection rate seems to be stabilizing, after 5 weeks of accelerated growth

### New Infections Per 1 Million Population - United States

Trailing 7-Day Moving Average, As of July 20



*Health Industry Advisor LLC analysis*

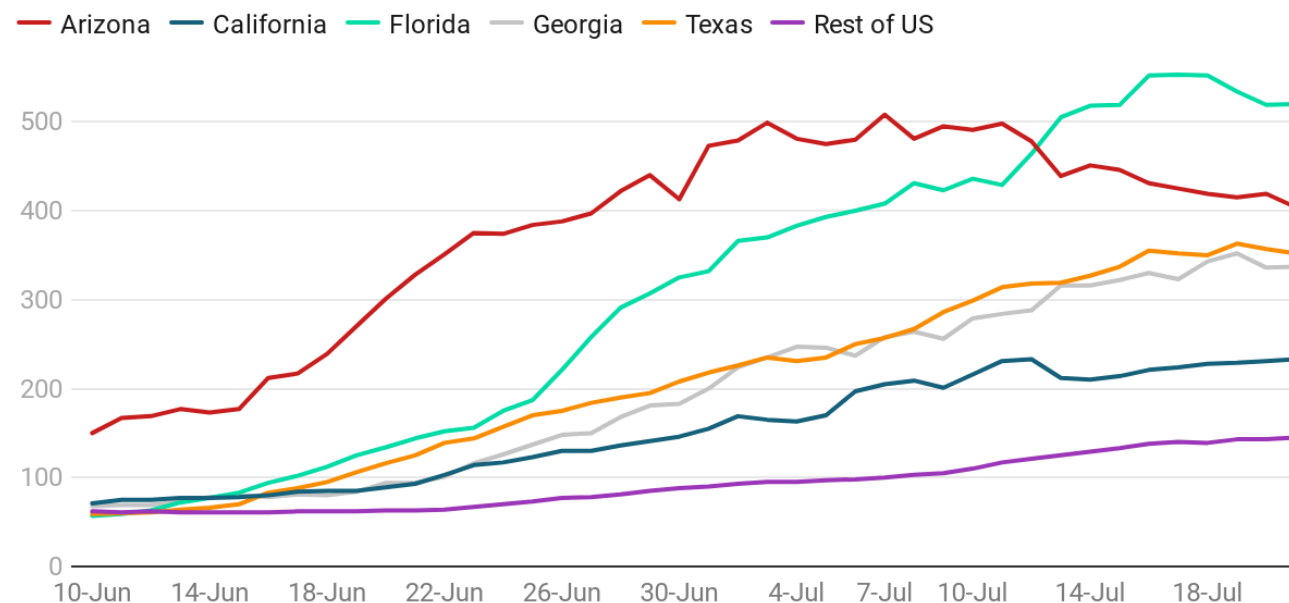
Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper



## Progress in Arizona and Florida; early signs of progress in Texas and Georgia?

### New Daily Infections / 1 Million Population

Trailing 7-Day Moving Average, As of July 21



*Health Industry Advisor LLC analysis*

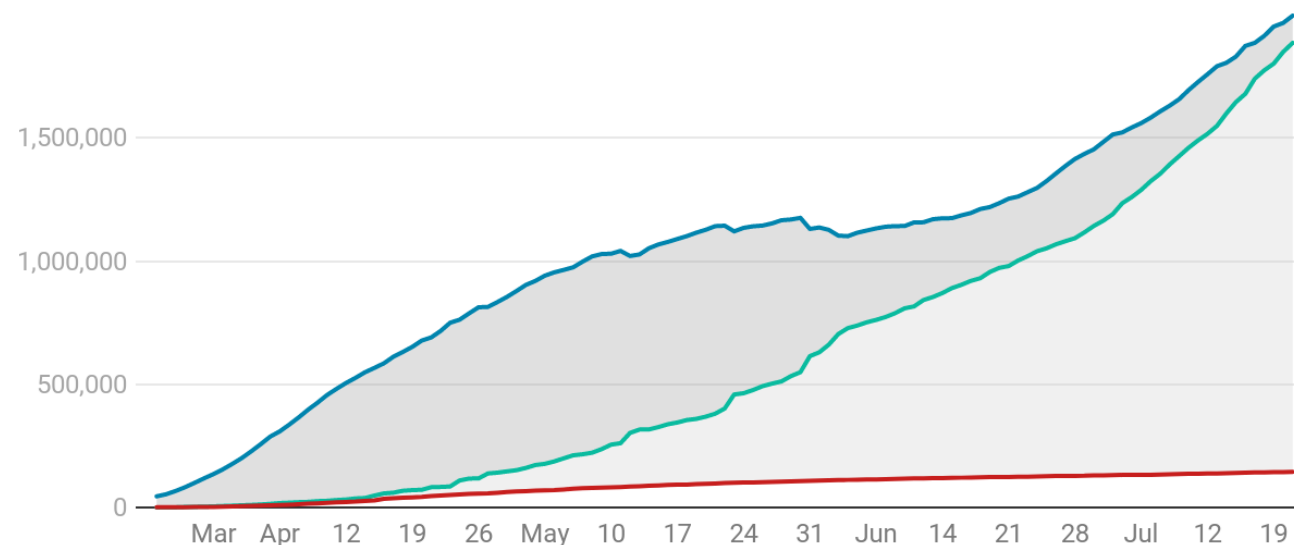
Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

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

### Active Cases v. Recoveries & Deaths

As of July 21

— Active Cases — Recoveries — Deaths



*Health Industry Advisor LLC analysis*

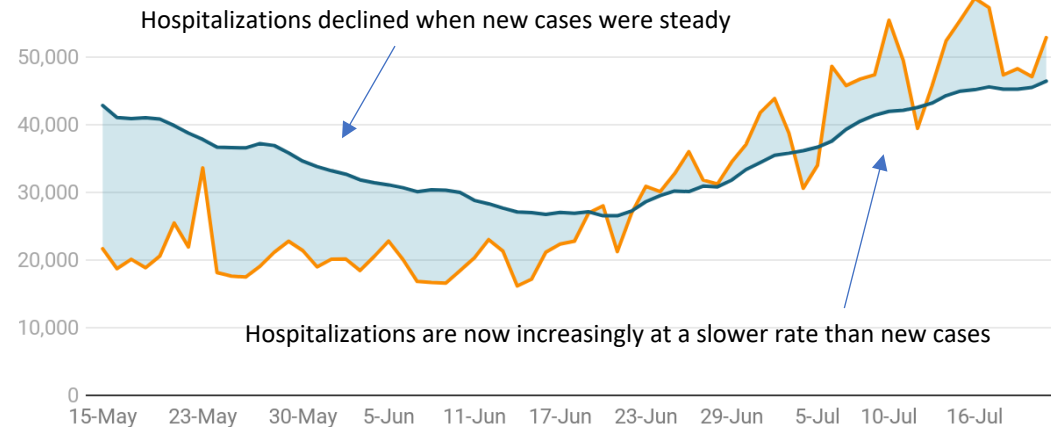
Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

# Hospitalizations not keeping pace with new cases; case severity appears to be stabilizing or slightly increasing

## Hospitalizations v. New Cases

As of July 21

— Hospitalizations — New Cases



Health Industry Advisor LLC analysis

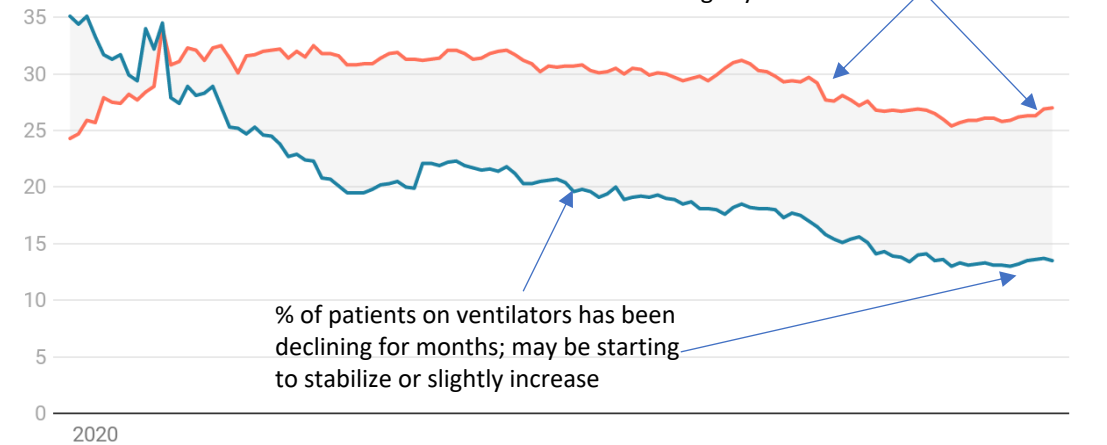
Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

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 21

— % vent — % icu



Health Industry Advisor LLC analysis

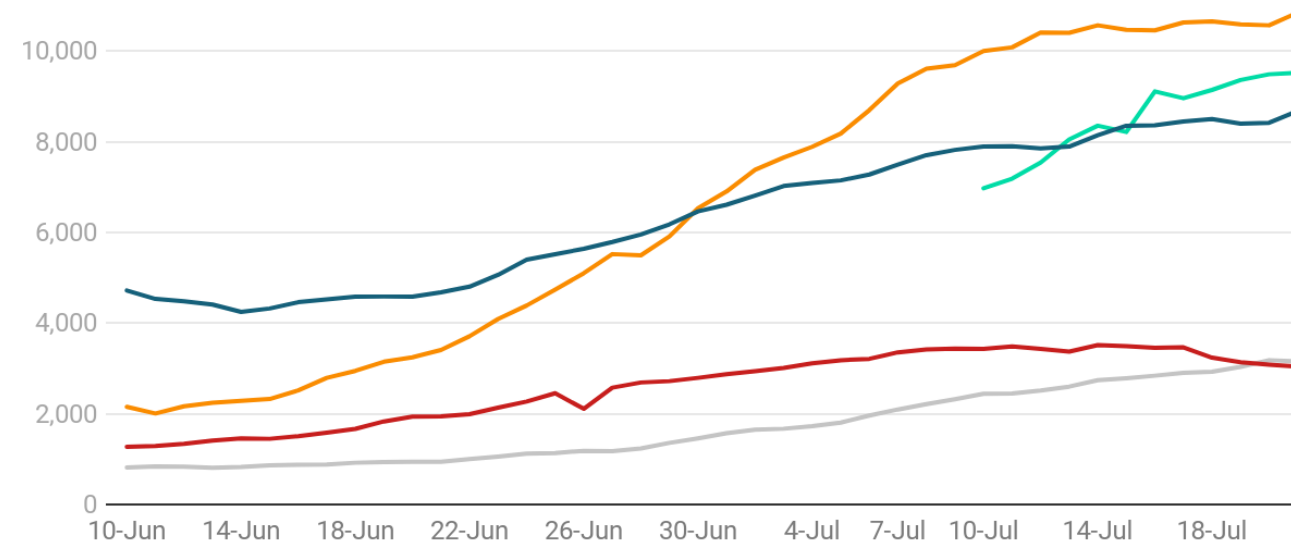
Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

## Hospitalizations: Still rising in Florida; Declining in Arizona

### Hospitalized COVID-19 Patients

As of July 21

— Arizona — California — Florida — Georgia — Texas



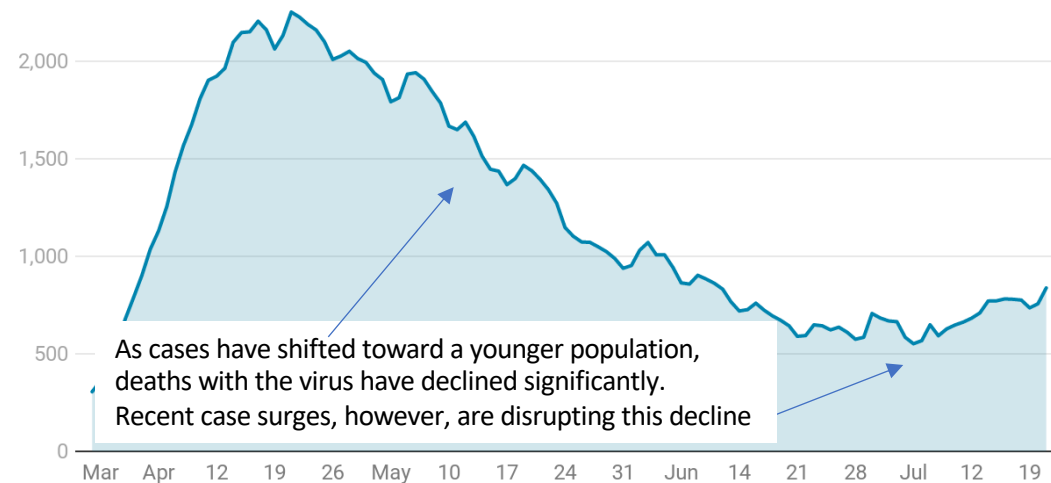
*Health Industry Advisor LLC analysis,*

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

# Deaths turning back up again?; Recoveries outnumber deaths by 13:1

## Deaths Recorded With Coronavirus in the U.S.

Trailing 7-Day Moving Average, As of July 21

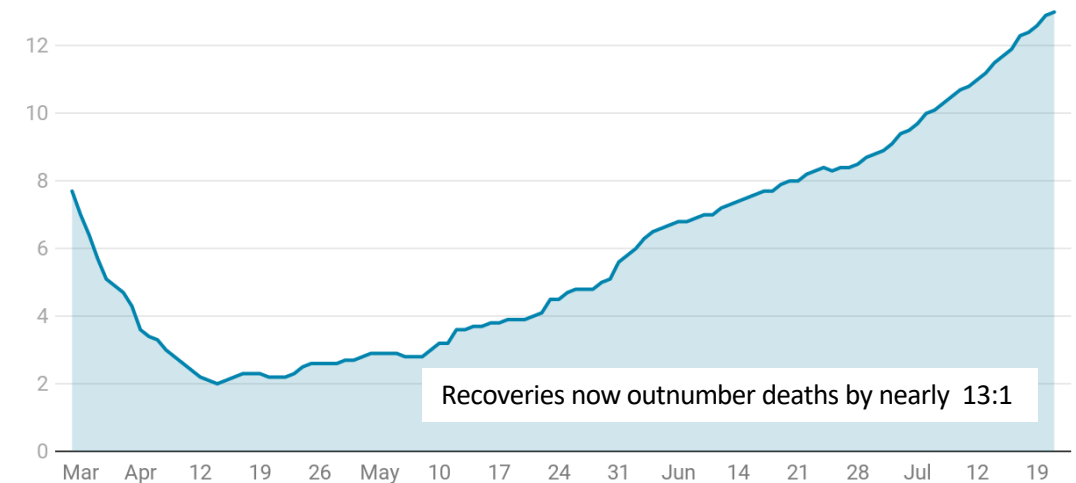


Health Industry Advisor LLC analysis

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

## Recoveries: Deaths - United States

As of July 21



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 21

| 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          | 4,028,569   | (1)  | 12,167                  | (3)   | 144,953 | (1)   | 3.6%       | (17)  | 437.8                           | (7)   | 1.7%                                  | (10)  | 2,536                                 | (2)   | 208.6                                               | (1)   |
| Brazil       | 2,166,532   | (2)  | 10,189                  | (5)   | 81,597  | (2)   | 3.8%       | (15)  | 383.7                           | (9)   | 1.5%                                  | (11)  | 227                                   | (21)  | 158.1                                               | (3)   |
| India        | 1,194,085   | (3)  | 865                     | (27)  | 28,770  | (7)   | 2.4%       | (22)  | 20.8                            | (26)  | 3.5%                                  | (2)   | 237                                   | (20)  | 26.5                                                | (18)  |
| Russia       | 783,328     | (4)  | 5,368                   | (10)  | 12,580  | (11)  | 1.6%       | (25)  | 86.2                            | (18)  | 0.8%                                  | (17)  | 1,912                                 | (3)   | 42.5                                                | (14)  |
| South Africa | 381,798     | (5)  | 6,433                   | (9)   | 5,368   | (19)  | 1.4%       | (26)  | 90.4                            | (17)  | 3.3%                                  | (4)   | 731                                   | (11)  | 201.0                                               | (2)   |
| Peru         | 362,087     | (6)  | 10,974                  | (4)   | 13,579  | (10)  | 3.8%       | (16)  | 411.5                           | (8)   | 1.2%                                  | (14)  | 627                                   | (13)  | 122.2                                               | (6)   |
| Mexico       | 349,396     | (7)  | 2,708                   | (20)  | 39,485  | (4)   | 11.3%      | (4)   | 306.1                           | (10)  | 1.9%                                  | (9)   | 97                                    | (25)  | 49.8                                                | (13)  |
| Chile        | 334,683     | (8)  | 17,499                  | (2)   | 8,677   | (14)  | 2.6%       | (20)  | 453.7                           | (6)   | 0.7%                                  | (19)  | 824                                   | (10)  | 113.5                                               | (7)   |
| Spain        | 313,274     | (9)  | 6,700                   | (8)   | 28,424  | (8)   | 9.1%       | (5)   | 607.9                           | (2)   | 0.5%                                  | (21)  | 899                                   | (7)   | 29.3                                                | (16)  |
| UK           | 295,817     | (10) | 4,356                   | (11)  | 45,422  | (3)   | 15.4%      | (2)   | 668.9                           | (1)   | 0.2%                                  | (27)  | 2,737                                 | (1)   | 9.3                                                 | (24)  |
| Iran         | 278,827     | (11) | 3,317                   | (16)  | 14,634  | (9)   | 5.2%       | (10)  | 174.1                           | (13)  | 0.9%                                  | (16)  | 303                                   | (18)  | 28.3                                                | (17)  |
| Pakistan     | 266,096     | (12) | 1,203                   | (25)  | 5,639   | (17)  | 2.1%       | (23)  | 25.5                            | (25)  | 0.6%                                  | (20)  | 98                                    | (24)  | 8.1                                                 | (25)  |
| Saudi Arabia | 255,825     | (13) | 7,342                   | (7)   | 2,557   | (26)  | 1.0%       | (28)  | 73.4                            | (19)  | 1.0%                                  | (15)  | 1,834                                 | (4)   | 73.9                                                | (10)  |
| Italy        | 244,752     | (14) | 4,048                   | (14)  | 35,073  | (5)   | 14.3%      | (3)   | 580.1                           | (3)   | 0.1%                                  | (29)  | 711                                   | (12)  | 3.3                                                 | (29)  |
| Turkey       | 221,500     | (15) | 2,625                   | (21)  | 5,526   | (18)  | 2.5%       | (21)  | 65.5                            | (20)  | 0.4%                                  | (23)  | 497                                   | (16)  | 11.0                                                | (22)  |
| Colombia     | 211,038     | (16) | 4,145                   | (13)  | 7,166   | (15)  | 3.4%       | (18)  | 140.8                           | (14)  | 4.0%                                  | (1)   | 508                                   | (15)  | 143.5                                               | (5)   |
| Bangladesh   | 210,510     | (17) | 1,278                   | (24)  | 2,709   | (25)  | 1.3%       | (27)  | 16.4                            | (28)  | 1.4%                                  | (12)  | 76                                    | (27)  | 17.7                                                | (19)  |
| Germany      | 203,890     | (18) | 2,433                   | (22)  | 9,180   | (12)  | 4.5%       | (13)  | 109.5                           | (15)  | 0.2%                                  | (28)  | 866                                   | (8)   | 5.3                                                 | (28)  |
| France       | 177,338     | (19) | 2,716                   | (19)  | 30,165  | (6)   | 17.0%      | (1)   | 462.1                           | (5)   | 0.4%                                  | (24)  | 865                                   | (9)   | 10.9                                                | (23)  |
| Argentina    | 136,118     | (20) | 3,010                   | (17)  | 2,490   | (27)  | 1.8%       | (24)  | 55.1                            | (22)  | 3.5%                                  | (3)   | 252                                   | (19)  | 92.3                                                | (8)   |
| Canada       | 111,697     | (21) | 2,958                   | (18)  | 8,862   | (13)  | 7.9%       | (6)   | 234.7                           | (12)  | 0.4%                                  | (22)  | 1,187                                 | (6)   | 12.1                                                | (21)  |
| Qatar        | 107,430     | (22) | 38,261                  | (1)   | 160     | (30)  | 0.1%       | (30)  | 57.0                            | (21)  | 0.4%                                  | (25)  | 1,553                                 | (5)   | 147.4                                               | (4)   |
| Iraq         | 97,159      | (23) | 2,413                   | (23)  | 3,950   | (24)  | 4.1%       | (14)  | 98.1                            | (16)  | 2.4%                                  | (6)   | 395                                   | (17)  | 54.6                                                | (11)  |
| Indonesia    | 89,869      | (24) | 328                     | (29)  | 4,320   | (23)  | 4.8%       | (12)  | 15.8                            | (29)  | 1.9%                                  | (8)   | 84                                    | (26)  | 5.9                                                 | (27)  |
| Egypt        | 89,078      | (25) | 870                     | (26)  | 4,399   | (22)  | 4.9%       | (11)  | 42.9                            | (23)  | 0.8%                                  | (18)  | -                                     | (28)  | 7.2                                                 | (26)  |
| China        | 83,693      | (26) | 58                      | (30)  | 4,634   | (21)  | 5.5%       | (9)   | 3.2                             | (30)  | 0.0%                                  | (30)  | -                                     | (28)  | 0.0                                                 | (30)  |
| Sweden       | 78,166      | (27) | 7,737                   | (6)   | 5,646   | (16)  | 7.2%       | (7)   | 558.9                           | (4)   | 0.3%                                  | (26)  | (1)                                   | (30)  | 30.6                                                | (15)  |
| Ecuador      | 76,217      | (28) | 4,317                   | (12)  | 5,366   | (20)  | 7.0%       | (8)   | 303.9                           | (11)  | 1.3%                                  | (13)  | 169                                   | (23)  | 53.8                                                | (12)  |
| Kazakhstan   | 73,468      | (29) | 3,910                   | (15)  | 585     | (29)  | 0.8%       | (29)  | 31.1                            | (24)  | 2.4%                                  | (7)   | 544                                   | (14)  | 89.1                                                | (9)   |
| Philippines  | 70,764      | (30) | 645                     | (28)  | 1,837   | (28)  | 2.6%       | (19)  | 16.8                            | (27)  | 3.0%                                  | (5)   | 225                                   | (22)  | 17.2                                                | (20)  |

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

As of July 21

| State                | Total Cases | Rank | Cases per 1M<br>Population | Rank2 | Deaths | Rank3 | Death Rate | Rank4 | Deaths per 1 Million<br>Population | Rank5 | 5-day Moving<br>Average Case<br>Growth Rate | Rank6 | Tests per 1M<br>Population Past 7<br>days | Rank7 | New Daily Cases Per<br>1M Population (5-<br>Day M.A.) | Rank8 |
|----------------------|-------------|------|----------------------------|-------|--------|-------|------------|-------|------------------------------------|-------|---------------------------------------------|-------|-------------------------------------------|-------|-------------------------------------------------------|-------|
| Alabama              | 70,358      | (19) | 14,349                     | (10)  | 1,303  | (23)  | 1.9%       | (32)  | 266                                | (22)  | 2.9%                                        | (8)   | 2,077                                     | (26)  | 381.8                                                 | (5)   |
| Alaska               | 2,041       | (49) | 2,790                      | (47)  | 18     | (51)  | 0.9%       | (49)  | 25                                 | (50)  | 3.8%                                        | (2)   | 5,693                                     | (1)   | 90.2                                                  | (35)  |
| Arizona              | 148,683     | (8)  | 20,427                     | (4)   | 2,918  | (15)  | 2.0%       | (28)  | 401                                | (15)  | 2.0%                                        | (24)  | 1,682                                     | (36)  | 404.0                                                 | (3)   |
| Arkansas             | 34,655      | (31) | 11,483                     | (22)  | 374    | (37)  | 1.1%       | (47)  | 124                                | (38)  | 2.2%                                        | (21)  | 2,335                                     | (16)  | 233.0                                                 | (13)  |
| California           | 410,176     | (2)  | 10,381                     | (24)  | 7,889  | (4)   | 1.9%       | (31)  | 200                                | (28)  | 2.4%                                        | (15)  | 3,116                                     | (7)   | 233.5                                                 | (12)  |
| Colorado             | 41,059      | (26) | 7,130                      | (36)  | 1,763  | (18)  | 4.3%       | (12)  | 306                                | (17)  | 1.2%                                        | (35)  | 1,150                                     | (48)  | 83.7                                                  | (36)  |
| Connecticut          | 48,096      | (22) | 13,490                     | (14)  | 4,406  | (9)   | 9.2%       | (1)   | 1,236                              | (3)   | 0.1%                                        | (50)  | 2,848                                     | (9)   | 22.7                                                  | (47)  |
| Delaware             | 13,746      | (40) | 14,116                     | (12)  | 525    | (34)  | 3.8%       | (16)  | 539                                | (12)  | 0.9%                                        | (37)  | 2,457                                     | (15)  | 114.0                                                 | (27)  |
| District Of Columbia | 11,427      | (41) | 16,191                     | (8)   | 580    | (33)  | 5.1%       | (9)   | 822                                | (6)   | 0.6%                                        | (44)  | 4,412                                     | (3)   | 97.4                                                  | (33)  |
| Florida              | 369,834     | (3)  | 17,219                     | (5)   | 5,207  | (8)   | 1.4%       | (42)  | 242                                | (24)  | 3.2%                                        | (5)   | 2,757                                     | (12)  | 520.2                                                 | (1)   |
| Georgia              | 148,988     | (7)  | 14,032                     | (13)  | 3,254  | (13)  | 2.2%       | (26)  | 306                                | (16)  | 2.6%                                        | (14)  | 2,210                                     | (22)  | 336.7                                                 | (9)   |
| Hawaii               | 1,418       | (50) | 1,002                      | (51)  | 24     | (50)  | 1.7%       | (37)  | 17                                 | (51)  | 1.6%                                        | (30)  | 1,081                                     | (49)  | 15.5                                                  | (50)  |
| Idaho                | 15,822      | (38) | 8,829                      | (28)  | 126    | (42)  | 0.8%       | (50)  | 70                                 | (45)  | 3.8%                                        | (3)   | 1,657                                     | (39)  | 327.2                                                 | (10)  |
| Illinois             | 164,878     | (6)  | 13,011                     | (16)  | 7,517  | (5)   | 4.6%       | (11)  | 593                                | (9)   | 0.7%                                        | (42)  | 3,015                                     | (8)   | 92.9                                                  | (34)  |
| Indiana              | 57,916      | (20) | 8,603                      | (29)  | 2,846  | (16)  | 4.9%       | (10)  | 423                                | (14)  | 1.4%                                        | (31)  | 1,409                                     | (43)  | 111.0                                                 | (29)  |
| Iowa                 | 39,563      | (27) | 12,539                     | (17)  | 803    | (29)  | 2.0%       | (27)  | 255                                | (23)  | 1.2%                                        | (34)  | 1,903                                     | (30)  | 167.7                                                 | (17)  |
| Kansas               | 23,570      | (34) | 8,090                      | (34)  | 315    | (38)  | 1.3%       | (44)  | 108                                | (41)  | 2.2%                                        | (20)  | 1,489                                     | (42)  | 163.2                                                 | (18)  |
| Kentucky             | 24,060      | (33) | 5,385                      | (42)  | 674    | (31)  | 2.8%       | (24)  | 151                                | (33)  | 2.7%                                        | (12)  | 1,699                                     | (35)  | 122.7                                                 | (24)  |
| Louisiana            | 96,590      | (12) | 20,777                     | (2)   | 3,611  | (11)  | 3.7%       | (17)  | 777                                | (7)   | 2.3%                                        | (17)  | 4,502                                     | (2)   | 446.8                                                 | (2)   |
| Maine                | 3,723       | (46) | 2,770                      | (48)  | 118    | (44)  | 3.2%       | (21)  | 88                                 | (43)  | 0.7%                                        | (43)  | 1,782                                     | (33)  | 16.7                                                  | (49)  |
| Maryland             | 79,545      | (15) | 13,157                     | (15)  | 3,402  | (12)  | 4.3%       | (13)  | 563                                | (10)  | 1.0%                                        | (36)  | 2,323                                     | (17)  | 124.9                                                 | (23)  |
| Massachusetts        | 114,033     | (9)  | 16,409                     | (7)   | 8,450  | (3)   | 7.4%       | (5)   | 1,216                              | (4)   | 0.3%                                        | (48)  | 1,664                                     | (38)  | 39.1                                                  | (45)  |
| Michigan             | 83,059      | (13) | 8,317                      | (33)  | 6,382  | (7)   | 7.7%       | (3)   | 639                                | (8)   | 0.8%                                        | (41)  | 2,798                                     | (10)  | 74.3                                                  | (38)  |
| Minnesota            | 47,457      | (23) | 8,415                      | (30)  | 1,588  | (20)  | 3.3%       | (19)  | 282                                | (19)  | 1.4%                                        | (32)  | 2,514                                     | (14)  | 108.6                                                 | (31)  |
| Mississippi          | 45,524      | (24) | 15,296                     | (9)   | 1,389  | (22)  | 3.1%       | (22)  | 467                                | (13)  | 2.7%                                        | (11)  | 2,159                                     | (24)  | 383.1                                                 | (4)   |

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

As of July 21

| 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       | 37,149      | (29) | 6,053                   | (41)  | 1,180   | (25)  | 3.2%       | (20)  | 192                             | (30)  | 2.9%                                  | (7)   | 1,751                               | (34)  | 150.5                                          | (20)  |
| Montana        | 2,712       | (47) | 2,537                   | (49)  | 40      | (48)  | 1.5%       | (40)  | 37                              | (49)  | 4.0%                                  | (1)   | 2,621                               | (13)  | 101.6                                          | (32)  |
| Nebraska       | 23,190      | (35) | 11,988                  | (21)  | 310     | (39)  | 1.3%       | (43)  | 160                             | (32)  | 0.9%                                  | (38)  | 1,640                               | (40)  | 108.8                                          | (30)  |
| Nevada         | 37,528      | (28) | 12,184                  | (19)  | 676     | (30)  | 1.8%       | (34)  | 219                             | (27)  | 3.3%                                  | (4)   | 1,792                               | (32)  | 366.8                                          | (6)   |
| New Hampshire  | 6,262       | (43) | 4,605                   | (43)  | 400     | (36)  | 6.4%       | (7)   | 294                             | (18)  | 0.4%                                  | (46)  | 924                                 | (51)  | 18.0                                           | (48)  |
| New Jersey     | 183,372     | (5)  | 20,645                  | (3)   | 15,809  | (2)   | 8.6%       | (2)   | 1,780                           | (1)   | 0.1%                                  | (51)  | 1,556                               | (41)  | 25.7                                           | (46)  |
| New Mexico     | 17,517      | (37) | 8,354                   | (32)  | 588     | (32)  | 3.4%       | (18)  | 280                             | (20)  | 1.7%                                  | (29)  | 3,552                               | (4)   | 136.5                                          | (21)  |
| New York       | 435,753     | (1)  | 22,400                  | (1)   | 32,602  | (1)   | 7.5%       | (4)   | 1,676                           | (2)   | 0.2%                                  | (49)  | 3,276                               | (6)   | 47.5                                           | (44)  |
| North Carolina | 102,920     | (11) | 9,813                   | (25)  | 1,699   | (19)  | 1.7%       | (39)  | 162                             | (31)  | 1.9%                                  | (25)  | 2,781                               | (11)  | 180.8                                          | (16)  |
| North Dakota   | 5,207       | (44) | 6,833                   | (38)  | 94      | (46)  | 1.8%       | (33)  | 123                             | (39)  | 2.2%                                  | (19)  | 2,298                               | (18)  | 133.8                                          | (22)  |
| Ohio           | 77,269      | (17) | 6,610                   | (39)  | 3,223   | (14)  | 4.2%       | (14)  | 276                             | (21)  | 1.8%                                  | (28)  | 1,910                               | (29)  | 112.6                                          | (28)  |
| Oklahoma       | 27,147      | (32) | 6,861                   | (37)  | 461     | (35)  | 1.7%       | (36)  | 117                             | (40)  | 3.0%                                  | (6)   | 2,029                               | (28)  | 195.3                                          | (15)  |
| Oregon         | 15,139      | (39) | 3,589                   | (45)  | 269     | (40)  | 1.8%       | (35)  | 64                              | (46)  | 2.3%                                  | (16)  | 1,348                               | (45)  | 79.1                                           | (37)  |
| Pennsylvania   | 107,460     | (10) | 8,394                   | (31)  | 7,106   | (6)   | 6.6%       | (6)   | 555                             | (11)  | 0.8%                                  | (40)  | 1,211                               | (47)  | 68.1                                           | (41)  |
| Rhode Island   | 17,986      | (36) | 16,978                  | (6)   | 996     | (26)  | 5.5%       | (8)   | 940                             | (5)   | 0.3%                                  | (47)  | 1,390                               | (44)  | 53.7                                           | (43)  |
| South Carolina | 73,337      | (18) | 14,244                  | (11)  | 1,221   | (24)  | 1.7%       | (38)  | 237                             | (26)  | 2.7%                                  | (10)  | 2,253                               | (20)  | 359.3                                          | (7)   |
| South Dakota   | 8,019       | (42) | 9,065                   | (27)  | 118     | (44)  | 1.5%       | (41)  | 133                             | (36)  | 0.8%                                  | (39)  | 1,240                               | (46)  | 72.2                                           | (39)  |
| Tennessee      | 81,944      | (14) | 11,992                  | (20)  | 871     | (27)  | 1.1%       | (48)  | 127                             | (37)  | 2.8%                                  | (9)   | 3,478                               | (5)   | 316.9                                          | (11)  |
| Texas          | 357,127     | (4)  | 12,316                  | (18)  | 4,299   | (10)  | 1.2%       | (45)  | 148                             | (34)  | 2.7%                                  | (13)  | 2,192                               | (23)  | 351.6                                          | (8)   |
| Utah           | 35,012      | (30) | 10,921                  | (23)  | 251     | (41)  | 0.7%       | (51)  | 78                              | (44)  | 1.9%                                  | (26)  | 2,269                               | (19)  | 202.0                                          | (14)  |
| Vermont        | 1,366       | (51) | 2,189                   | (50)  | 56      | (47)  | 4.1%       | (15)  | 90                              | (42)  | 0.6%                                  | (45)  | 1,677                               | (37)  | 14.0                                           | (51)  |
| Virginia       | 79,371      | (16) | 9,299                   | (26)  | 2,048   | (17)  | 2.6%       | (25)  | 240                             | (25)  | 1.3%                                  | (33)  | 1,828                               | (31)  | 116.0                                          | (26)  |
| Washington     | 50,003      | (21) | 6,566                   | (40)  | 1,474   | (21)  | 2.9%       | (23)  | 194                             | (29)  | 1.9%                                  | (27)  | 2,215                               | (21)  | 120.6                                          | (25)  |
| West Virginia  | 5,199       | (45) | 2,909                   | (46)  | 101     | (45)  | 1.9%       | (30)  | 57                              | (47)  | 2.2%                                  | (18)  | 2,103                               | (25)  | 63.3                                           | (42)  |
| Wisconsin      | 44,135      | (25) | 7,580                   | (35)  | 859     | (28)  | 1.9%       | (29)  | 148                             | (35)  | 2.2%                                  | (22)  | 2,057                               | (27)  | 152.8                                          | (19)  |
| Wyoming        | 2,238       | (48) | 3,867                   | (44)  | 25      | (49)  | 1.1%       | (46)  | 43                              | (48)  | 2.0%                                  | (23)  | 1,021                               | (50)  | 70.8                                           | (40)  |
| United States  | 4,028,569   |      | 12,171                  |       | 144,953 |       | 3.6%       |       | 438                             |       | 1.7%                                  |       | 2,353                               |       | 208.6                                          |       |



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](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>