







COVID-19 Report

Issue # 132

Tuesday, August 11, 2020



Today's Highlights

Vaccines

- Russia's health regulator approved the Gamaleya vaccine for use without having gone through Phase III clinical trials
- ReiThera announced a Phase I trial
- CanSinoBIO announced that it launched a Phase III trial in India; its vaccine is already approved for use in China as a "special use drug
- According to a Gallup poll conducted from July 20-August 2, 35% of adults in the U.S. would be unwilling to take a vaccine. Reluctance is highest among middle-aged people
- New Cases and Infection Rates
 - New cases are down 8.8% week-over-week, although the rate of decline is slowing
 - Are we letting down our guard? New infections per capita in the U.S. have plateaued in the past few days- at too high a level
 - Eleven states have rates > 200 / million / day (trailing 7-day moving average);
 However, only Arkansas, Idaho and Louisiana showed material increases in this rate on a week-over-week basis
 - This rate declined significantly week-over-week in Alaska, Arizona, Florida, Mississippi, Nevada and South Carolina
 - Only four states have experienced their highest rate to-date within the past week; These and three other states are within 10% of their peak rate
 - The United States is one of only twenty countries with rates >100; of these, however, it is one of only six that experienced a declining rate on a week-overweek basis

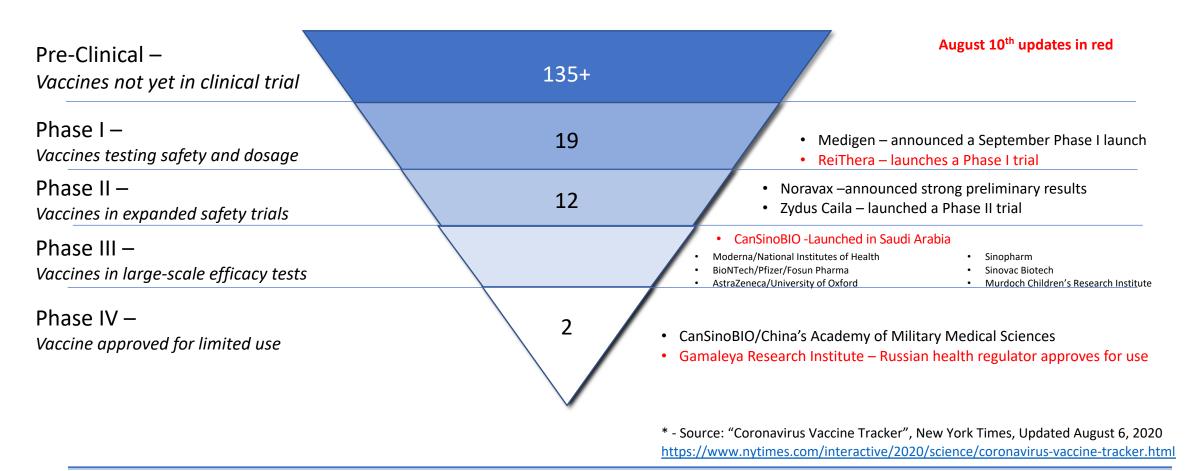
Healthcare Resources

- COVID-19 patients in the hospital have declined 18.5% since peaking on July 23
- South Dakota, Wisconsin and Hawaii are notable exceptions, as each show large % increases on a week-over-week basis
- ICU patients have similarly declined since peaking on July 29; ICU COVID-19 census is down ~40% since mid-April (even with eight more states currently reporting these data)
- Deaths with COVID-19
 - Daily deaths continued their steady decline; Over the past 5 days, the 7-day average has declined by 20.5%
 - Deaths per case are down to 3.16%
- Testing
 - Test volume appears to have stabilized over the past few days, following a nine-day decline
 - The United States is one of only twenty-two countries worldwide that are currently testing above the minimum suggested by Harvard scientists
 - Test-positive % yesterday was its lowest since June 21; on 7-day average basis, it is at its lowest since July 1



Vaccines

Russia approves its Gamaleya vaccine for use without Phase III testing





New cases were up on yesterday, following the typical pattern for Mondays; Week-over-week, new cases are down 8.8%, although this rate of decline is diminishing

New Cases

Through August 10

Mondays Highlighted

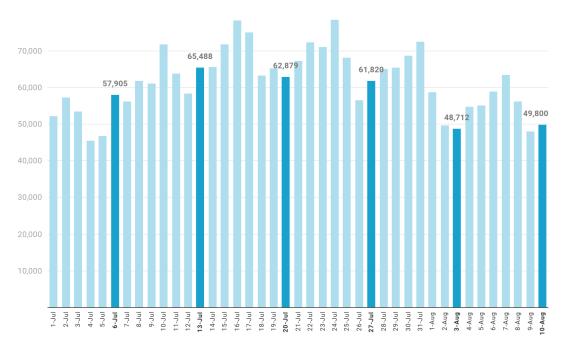
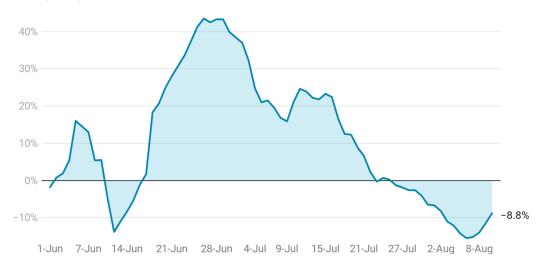


Chart: Health Industry Advisor LLC • Source: eorldometers.info • Created with Datawrappe

Note the daily pattern: new cases are typically low on Sunday, then increase each day through the week

Week-Over-Week Change In New Cases

Through August 10



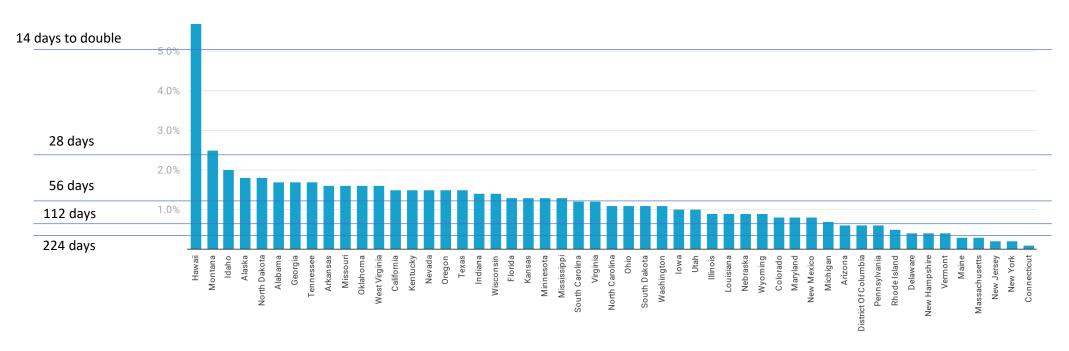
Health Industry Advisor LLC analysis



Case growth is slowing but, Hawaii remains the outlier. At current rates, cases are doubling every 12-13 days in Hawaii; every 510 days in Connecticut; 64 days for the United States overall

Growth Rate in Total Cases

Trailing 5-Day Moving Average, Through August 10



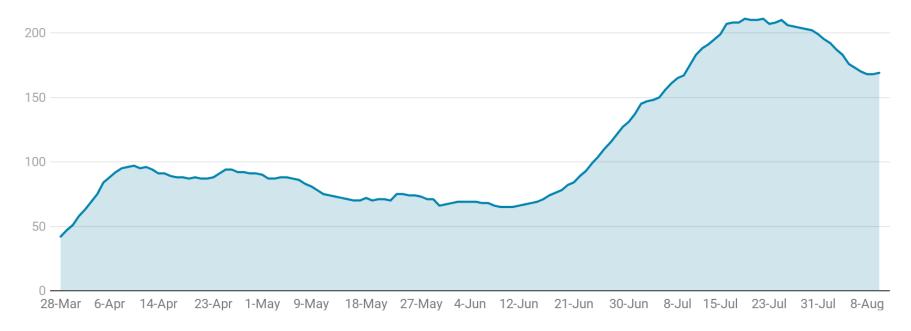
Health Industry Advisor LLC analysis



Letting down our guard? New infections per capita* seems to be hitting a (too high) plateau

New Infections Per 1 Million Population - United States

Trailing 7-Day Moving Average, Through August 10



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



Eleven states had new daily infection rates* >200 for the past week; Of these, Arkansas, Idaho, Louisiana and Texas (barely) - had increasing rates v. the prior week. Note the significant rate declines in Alaska, Arizona, Florida, Mississippi, Nevada and South Carolina

New Daily Infections / Million Population

Trailing 7-Day Moving Average

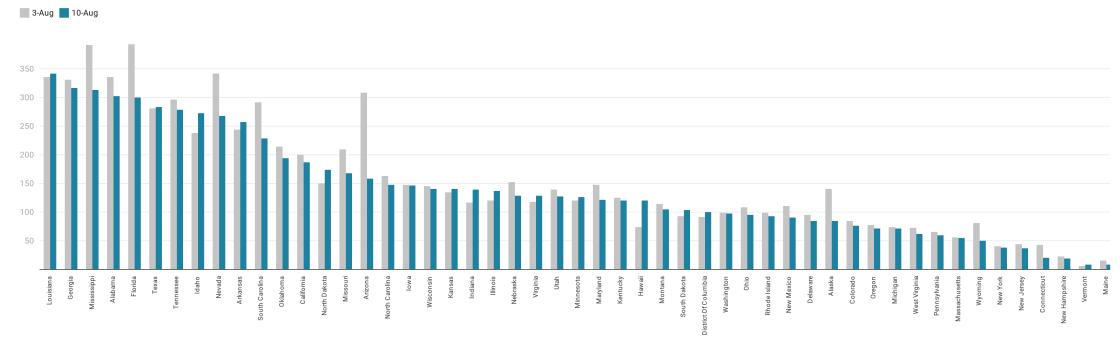


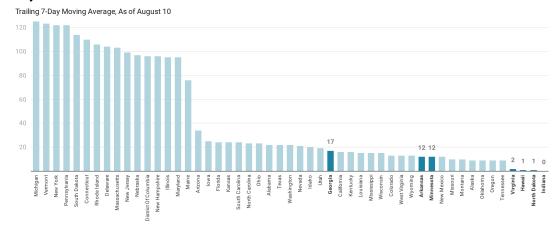
Chart: Health Industry Advisor LLC • Created with Datawrapper

per minion per auy, training / auy moving average



Four states posted their highest new daily infection rate within the past week; Three others are within 10% of their peak

Days Since Peak New Infection Rate



Health Industry Advisor LLC analysis

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

New Daily Infections / Million

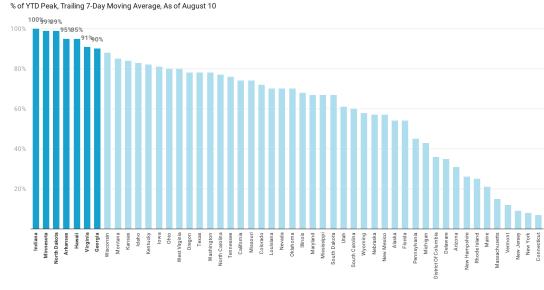


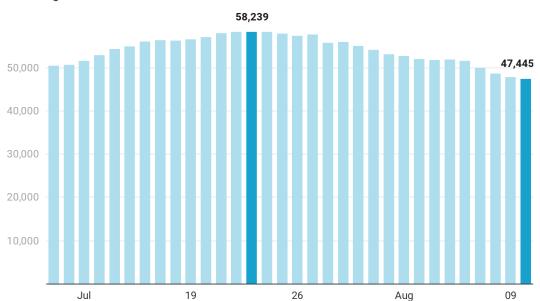
Chart: Health Industry Advisor LLC • Created with Datawrapper



COVID-19 census was lowest since Florida started reporting on July 10; Down 18.5% from peak; Twenty states, however, led by South Dakota and Wisconsin, are seeing more patients than last week

Hospital Census: COVID-19 Patients

As of August 10



Florida data first available on July 10

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

Week-Over-Week Change in COVID-19 Hospital Census

As of August 4

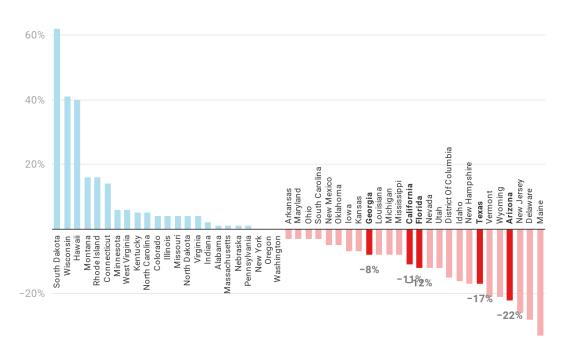


Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid tracking Project • Created with Datawrapper

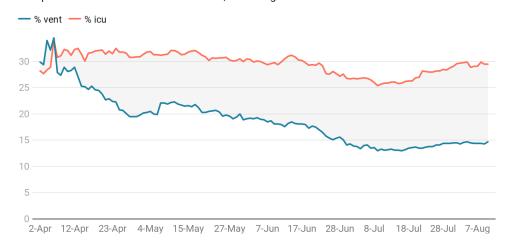


Stress on ICU beds and ventilators is also easing; Notably, with eight fewer states reporting, ICU census was ~40% higher in mid-April

ER Visits for COVID-19 are Declining

Severity of Hospitalized Patients

% of patients on ventilators and in the ICU, As of August 10



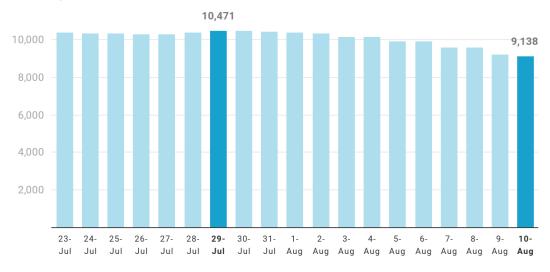
Health Industry Advisor LLC analysis

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

ICU COVID-19 Census Also Down

ICU Census

As of August 10



Not all state report these data

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



Daily deaths down 20.5% over past 5 days, on a 7-day average basis Deaths per case down to 3.16%

Deaths Recorded With Coronavirus in the U.S.

Trailing 7-Day Moving Average, As of August 10



Health Industry Advisor LLC analysis

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

Deaths Per Case

As of August 10



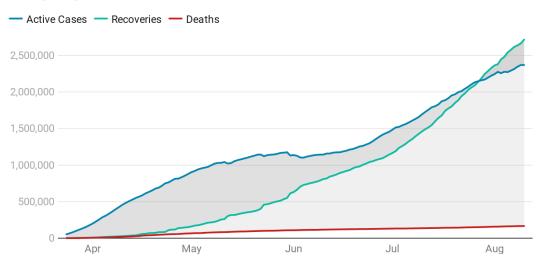
Health Industry Advisor LLC analysis



Recoveries accelerating, now exceed active cases in the United States by 16%; More than sixteen recovered persons for each death

Active Cases v. Recoveries & Deaths

Through August 10

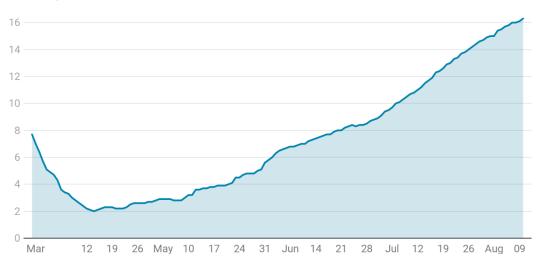


Health Industry Advisor LLC analysis

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

Recoveries: Deaths - United States

As of August 10



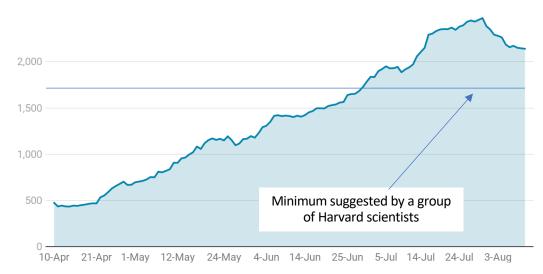
Health Industry Advisor LLC analysis



Test volume stabilized past few days
Test-positive rate on a downward trend since July 11; Monday's 5.8%
rate was lowest since June 21

Daily Tests Per 1 Million - United States

Trailing 7-Day Moving Average, As of August 10



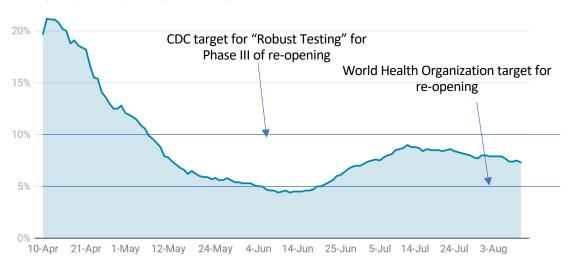
Health Industry Advisor LLC analysis

 $\textbf{Chart: Health Industry Advisor LLC} \cdot \textbf{Source: The Atlantic's Covid Tracking Project} \cdot \textbf{Created with Datawrapper}$

Note: Due to a computer glitch, Washington has only reported positive results since August 1. Therefore, test volumes from that point forward are slightly understated

Test-Positive Rate - United States

Trailing 7-Day Moving Average, As of August 10



Health Industry Advisor LLC analysis

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

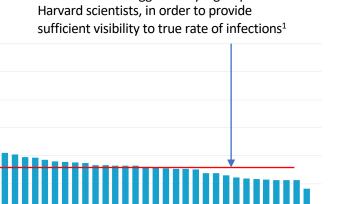
Note: Due to a computer glitch, Washington has only reported positive results since August 1. Therefore, test-positive rates from that point forward are slightly overstated by ~0.1%



Most states are testing at or above the minimum level suggested by a group of Harvard scientists; Twelve states, however, have testpositive rates above recommended levels

Daily Tests Per 1 Million Population

Trailing 7-Day Moving Average, As of August 10



Minimum level suggested by a group of

4.000

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

1 – source: (source: https://www.kff.org/coronavirus-policy-watch/what-testing-capacity-do-we-need/

2- Minnesota made an adjustment to tests counts this week, rendering this value meaningless

Test-Positive Rate

Trailing 7-Day Moving Average, As of August 10 CDC target for "Robust Testing" for

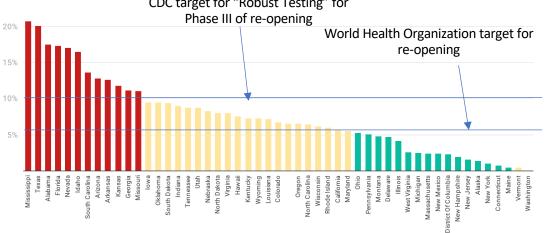


Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Projects • Created with Datawrapper

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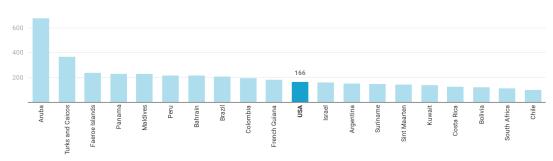


United States ranked 11th in the world, and twenty countries had new rates infection rates* > 100 for the past week; The U.S. was one of six of these countries for which this rate declined versus the prior week

Island nations leading in new infections rates over past week

New Daily Infections / Million Population

Trailing 7-Day Moving Average, As of August 10

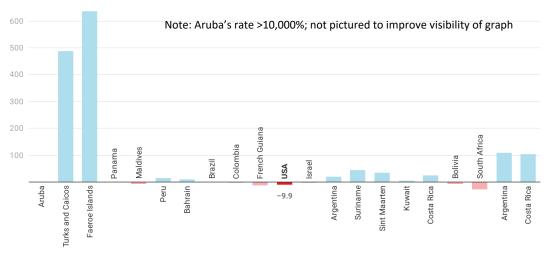


Health Industry Advisor LLC analysis

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

Week-Over-Week Change in New Daily Infections / Million Population

Trailing 7-Day Moving Average, August 10 v. August 3



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

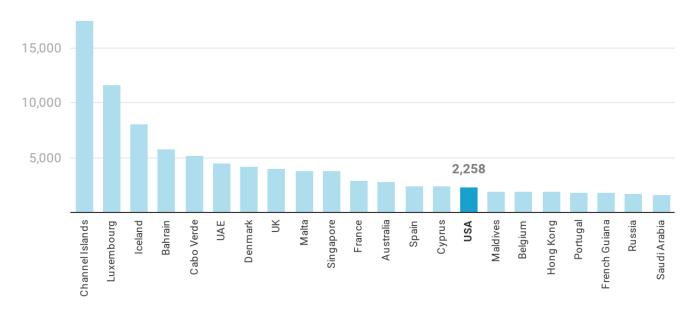


Countries With A Minimum of 1,000 Cases

United States among twenty-two countries currently testing above the minimum suggested level current testing rate

Daily Tests Per 1 Million Population

Trailing 7-Day Moving Average, As of August 10



Among 165 Countries with a minimum of 500 COVID-19 cases

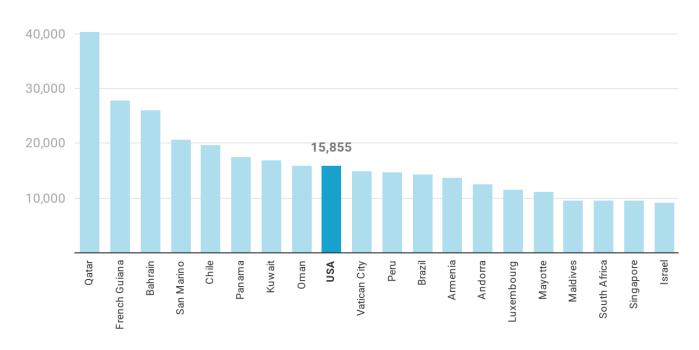
^{*} Among countries with a minimum of 500 COVID-19 cases



Worldwide United States ranks 8th in the world in total cases per capita

Total Cases / 1 Million Population

As of August 10



^{*} Among countries with a minimum of 1,000 COVID-19 cases



Worldwide

United States ranks 68th in deaths per case; in deaths per capita, U.S. ranks 10th

Deaths Per Case

As of August 10

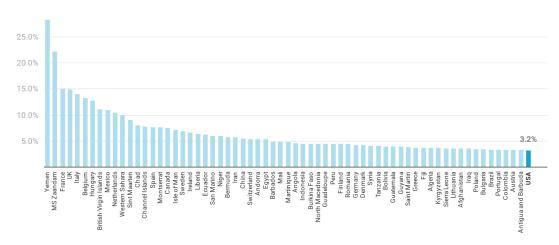
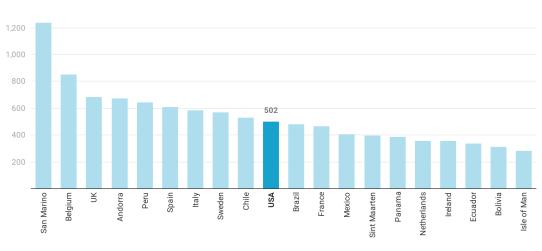


Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

Deaths/ Million Population

As of August 10





Data Sources

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