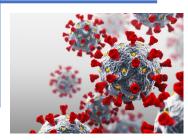


"Strategic Advice in an Era of Unprecedented Change"









Covid-19 Report

Issue # 262 January 16, 2021

Covid-19 Highlights

- As feared, deaths reported with the coronavirus continue to increase week-over-week. For the second successive week, these deaths exceeded 3,000 per day. Tragically, with the increases in new cases over the past month, the number of deaths is likely to continue increasing each week for the next several weeks
- Test volume finally increased on a week-over-week basis it had tapered off for the past several weeks. Test volume last week was the highest of any week during the pandemic;
- The test-positive rate also improved from the prior week; however, it remains higher than the desired level
- Newly-detected cases declined last week. Excepting holiday weeks (which were impacting by reporting delays), the last time that new cases fell week-over-week was back in mid-September
 - As in previous weeks, California led the states in both the number of new cases for the week and the week-over-week increase in the number of new cases
 - California, Texas, Florida, and New York accounted for 40% of the new cases reported last week
 - Encouragingly, only eleven states experienced week-overweek increases in the number of new cases; Florida had more than 25,000 fewer new cases this week than last week

- Estimated actual infections also declined last week, using the <u>Yale School of Public Health model</u>; with this measure as well, it was back in mid-September that estimated new infections had fallen week-over-week
- Hospital occupancy continues to be a concern, with more than 40% of our nation's inpatient beds occupied by Covid-19 patients. For the first time since late-September, however, Covid-19 hospital occupancy did not increase on a week-overweek basis
 - The number of Covid-19 ICU patients increased week-overweek; however, this increase was smaller than for any week since the beginning of October
 - Similarly, the number of Covid-19 ventilator patients increased week-over-week; however, this increase also was smaller than for any week since the beginning of October
- Vaccinations have ramped more slowly than anticipated (here is where we need your leadership, Andy!). Nonetheless, last week, we neared a million doses per day, the level that we had been modeling based on having two approved vaccines
- Based on the vaccinations to-date and estimated infections (using the Yale model referenced above), the percentage of Americans with presumed immunity increased modestly week-over-week but remains at about one-fourth to one-third of the level needed for herd immunity. At this point, most of the existing immunity is from infection, not from vaccination

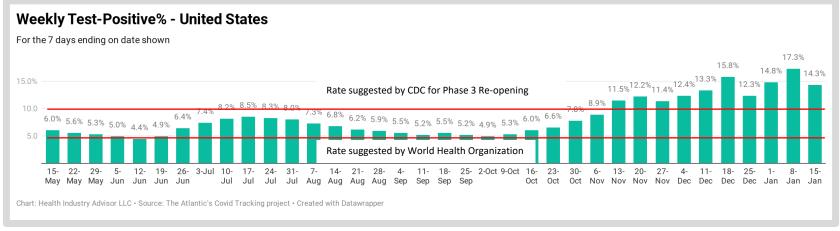




Testing

Testing finally returned and in fact exceeded previous high-water marks; Test-positive% rate improved but, still exceeds the desired level



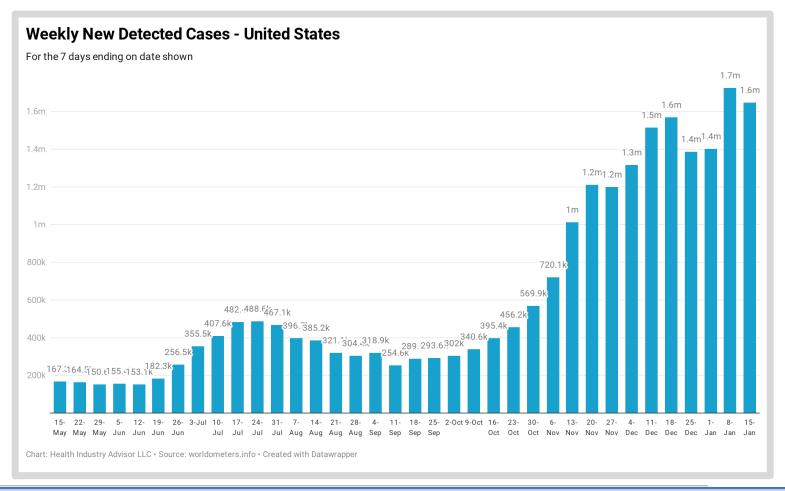






Newly Detected Cases

Ignoring weeks impacted by holiday reporting interruptions, new cases fell week-over-week for the first time since mid-September

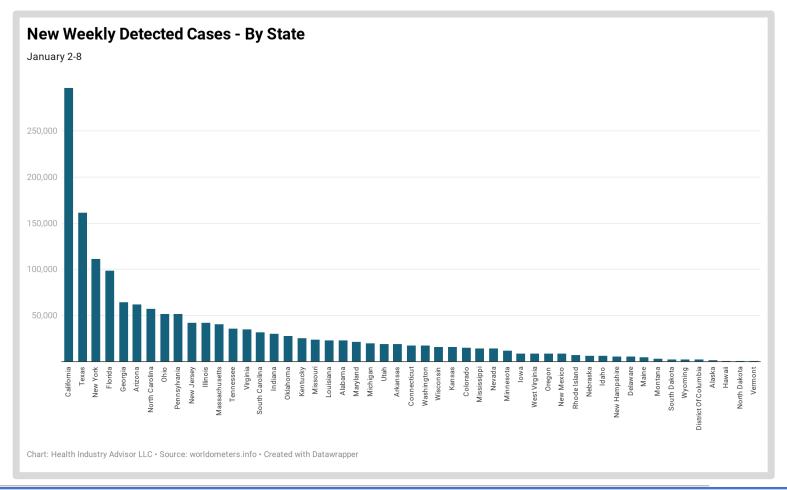




Covid-19

Newly Detected Cases - By State

California was most-heavily impacted by newly detected cases over the past 7 days; followed in order by Texas, Florida and New York; collectively, these states accounted for 40% of new cases in the US last week

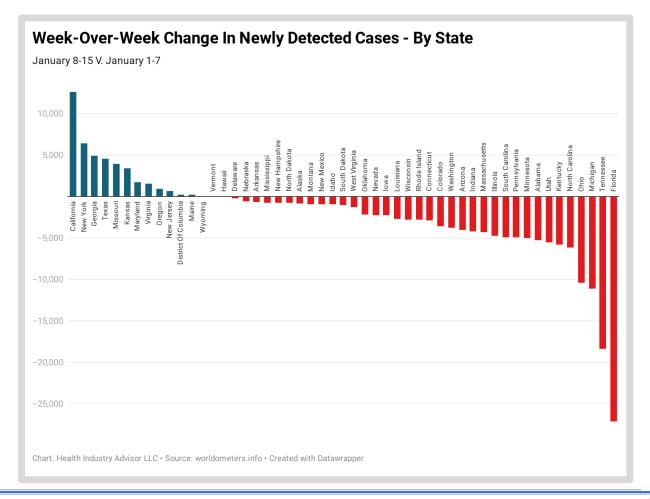




Covid-19

Week-Over-Week Change in Newly Detected Cases

California also reported the largest week-over-week increase in new cases; only eleven states, however, experienced a week-over-week increase in the number of new cases

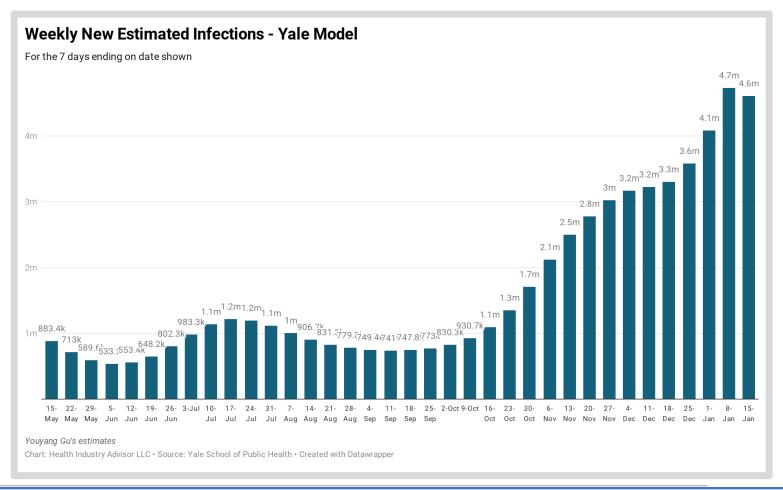






Estimated True Infections – Yale Model

The Yale School of Public Health model estimates that true infections fell last week – the first time this has occurred since mid-September

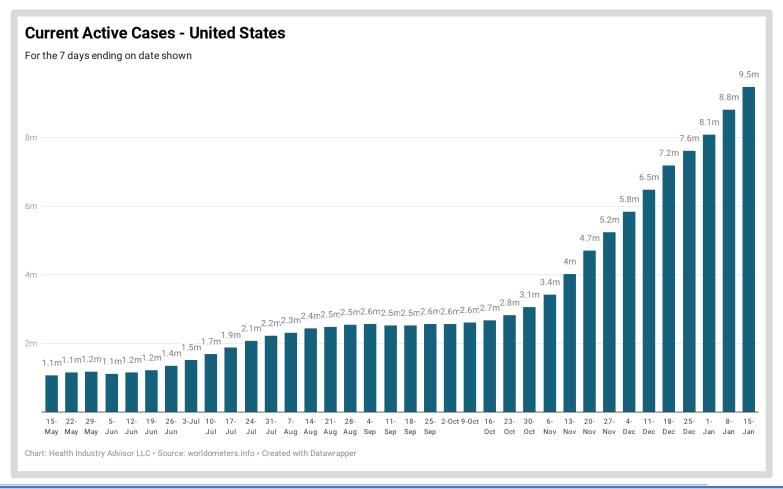






Active Cases

There are an estimated 9.5 million people in the US currently dealing with Covid-19 symptoms (known, detected cases)

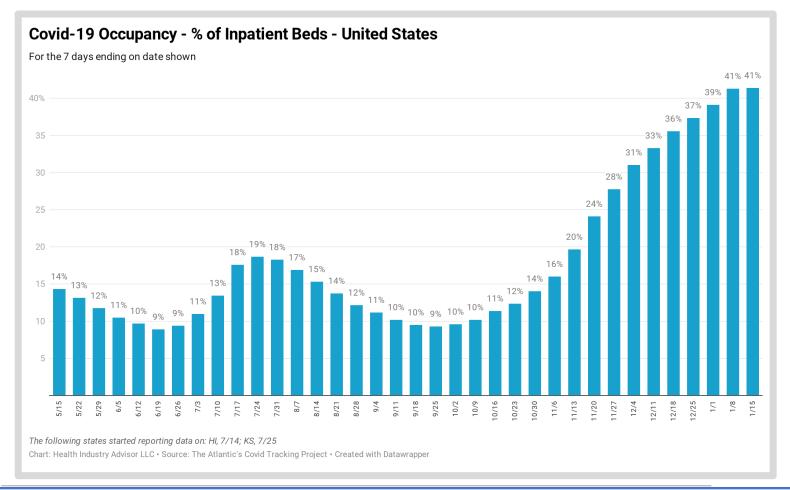




Covid-19 Hospital Occupancy

Covid-19

Covid-19 patients currently occupy more than 40% of all inpatient beds in the US; however, this rate was unchanged week-over-week. This was the first time since late-September that it did not increase week-over-week

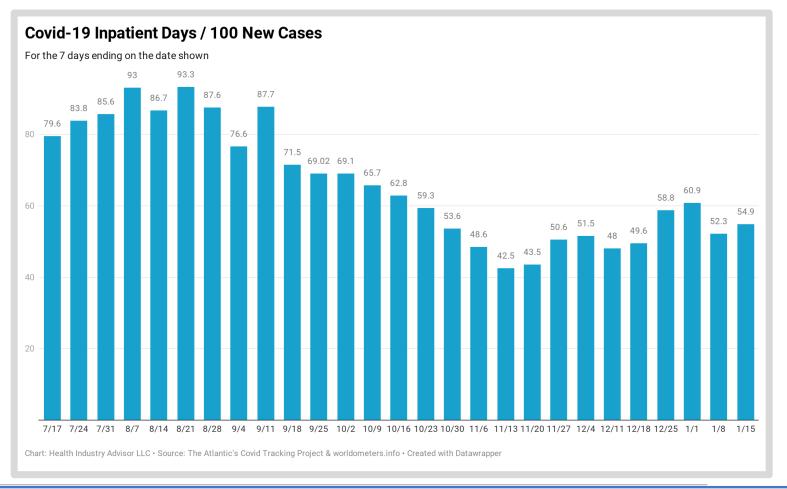




Covid-19 Patient Days / 100 New Cases



The rate of patient days per new case increased last week; nonetheless, this rate remains significantly lower than it was in the summer

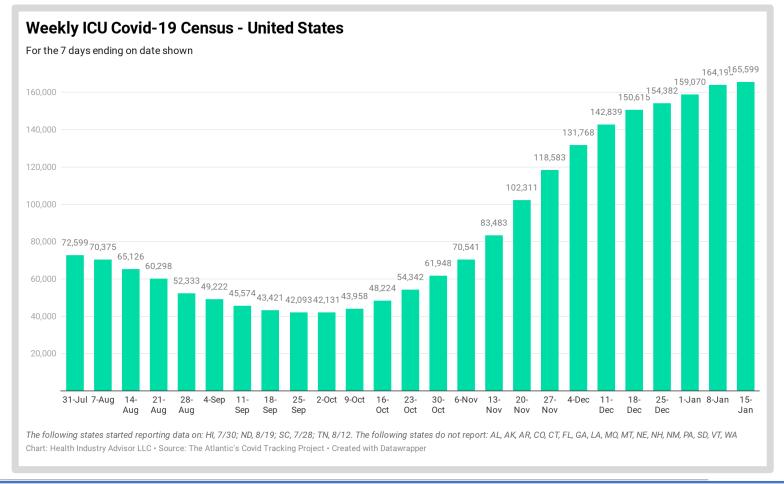




Covid-19 ICU Patient Days



The number of days that Covid-19 patients spent in the ICU rose again last week; albeit at the slowest rate since the beginning of October

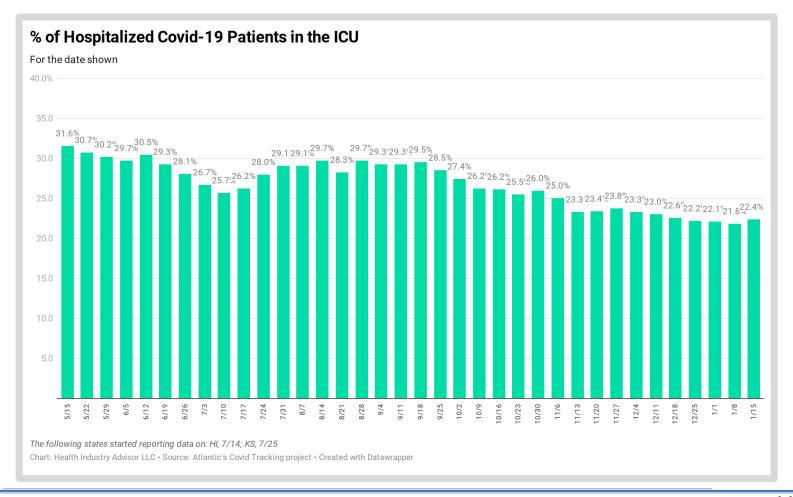




Mix of Covid-19 Patients: % in ICU



The % of Covid-19 patients requiring intensive care last week was in-line with where it has been for the past five weeks

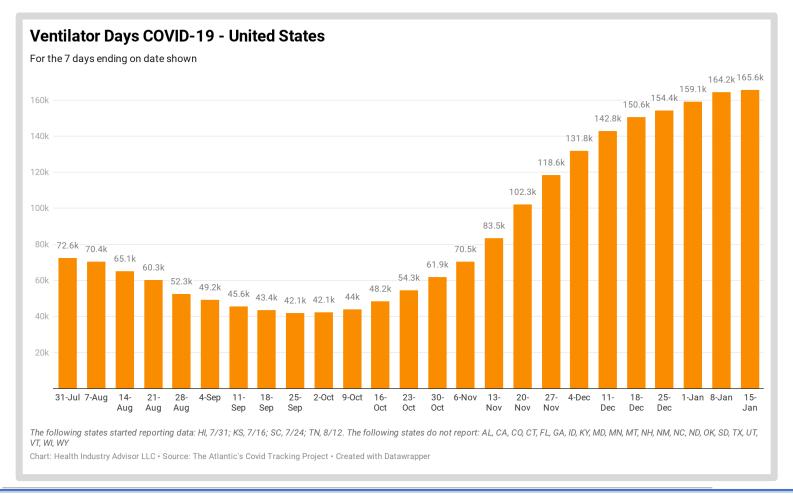




Covid-19 Ventilator Days

Covid-19

The number of days that Covid-19 patients spent on ventilators increase last week — however, this increase was smaller than it has been since the beginning of October

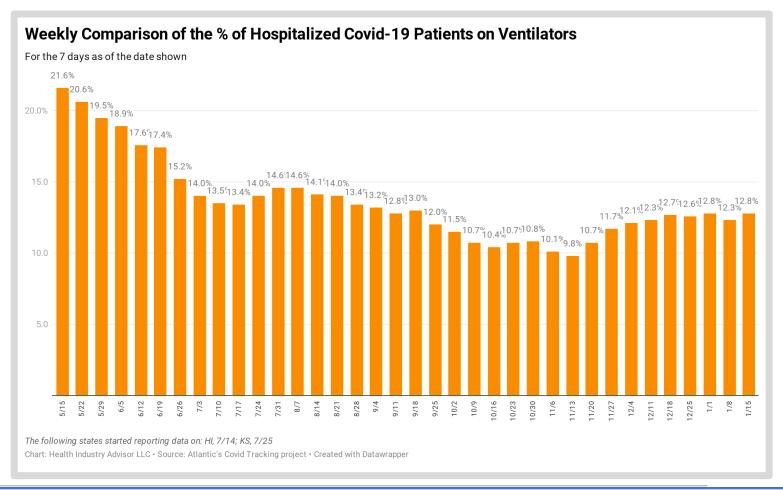




Mix of Covid-19 Patients: % on Ventilators



The % of Covid-19 patients requiring ventilator care increased slightly last week yet, remains in-line with where it has been for the past five weeks

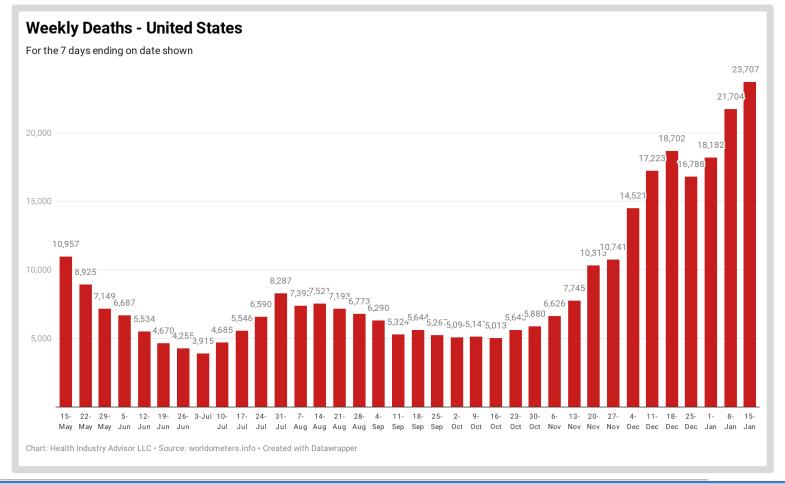




Deaths With Coronavirus

Covid-19

Tragically, more people passed away last week with coronavirus than during any other since the pandemic began

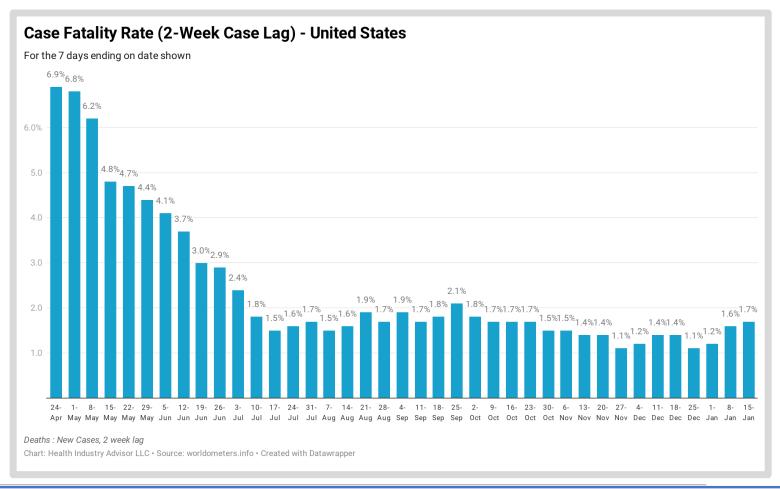




Case Fatality Rate: 2-Week Lag From Case Detection

Covid-19

The case fatality rate rose slightly this week but, remains within the range experienced since the beginning of July

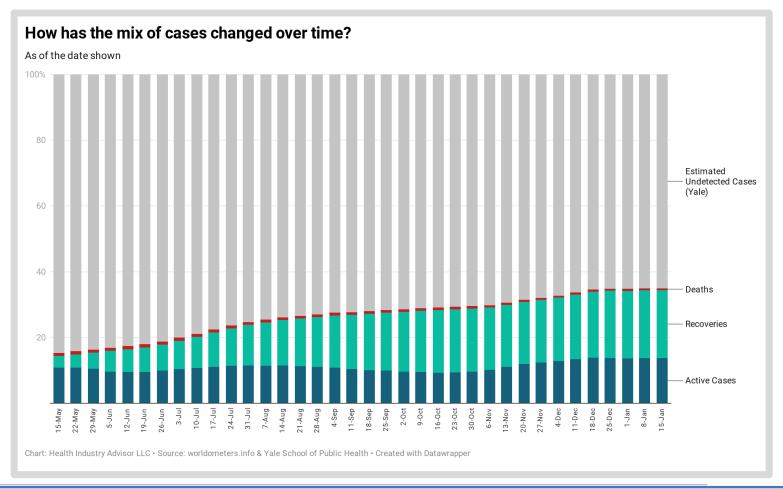




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Mix of Cases – Active, Recovered, Death & Undetected

Although improving over time, most cases still go undetected

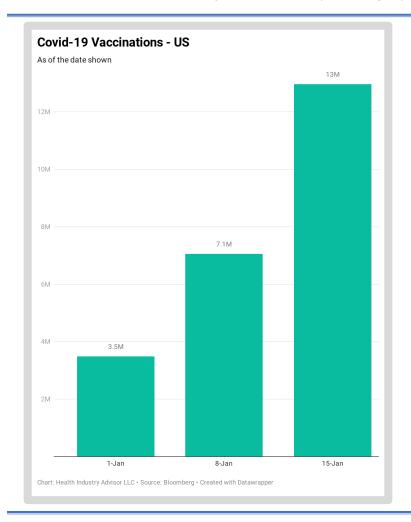


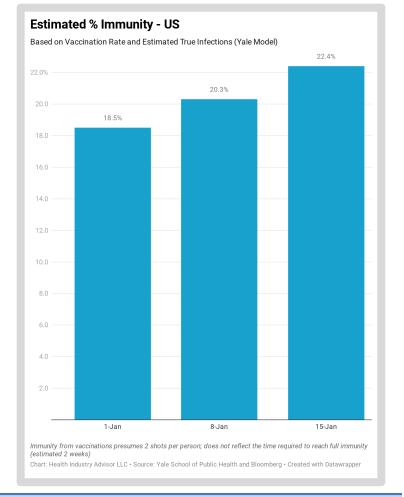


Vaccination and Immunity Status - US

Covid-19

The vaccination effort in the US has started slowly; in the past week, however, it neared the 1 million dose per day level that was anticipated; Thus far, immunity is largely due to prior infection, not new vaccinations







Covid-19

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 and Prevention, National, Regional, and State Level Outpatient Illness and Viral Surveillance https://gis.cdc.gov/grasp/fluview/fluportaldashboard.html
- Centers for Disease Control and Prevention, COVID-19 Laboratory-Confirmed Hospitalizations https://gis.cdc.gov/grasp/COVIDNet/COVID19 5.html
- Centers for Disease Control and Prevention, COVID Data Tracker https://www.cdc.gov/covid-data-tracker/index.html#mobility
- Centers for Disease Control and Prevention, Vaccines, https://www.cdc.gov/coronavirus/2019-ncov/vaccines/index.html
- 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
- Oliver Wyman Pandemic Navigator, <u>https://pandemicnavigator.oliverwyman.com/forecast?mode=country®ion=United%20States&panel=mortalit</u>
 <u>Y</u>
- Bloomberg Vaccine Trackers, https://www.bloomberg.com/graphics/covid-vaccine-tracker-global-distribution/?sref=Z0b6TmHW

