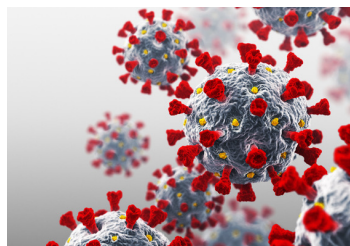


Covid-19 "Vital Signs"

Issue # 351

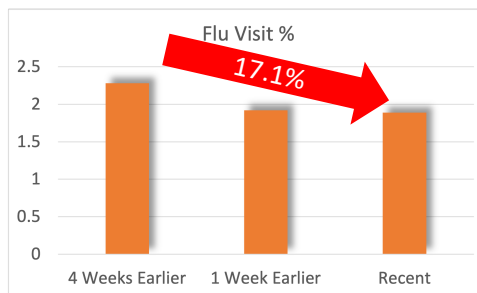
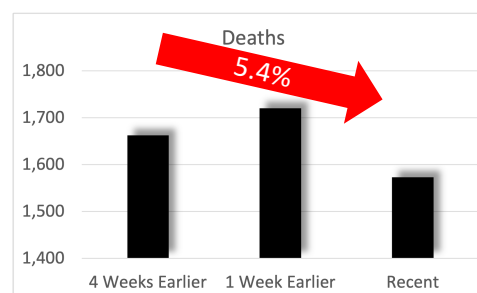
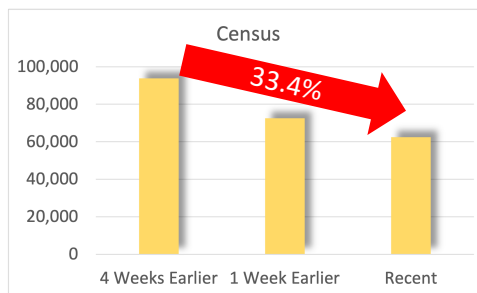
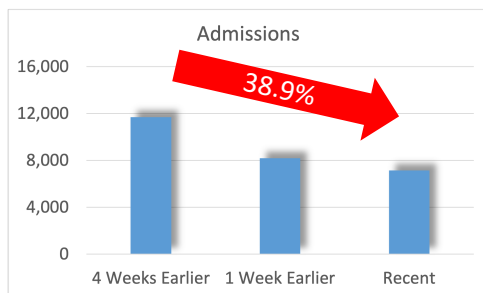
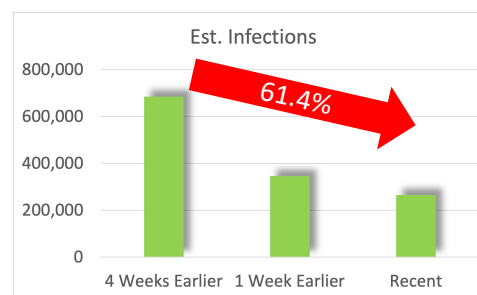
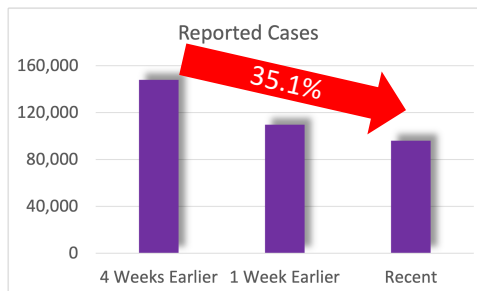
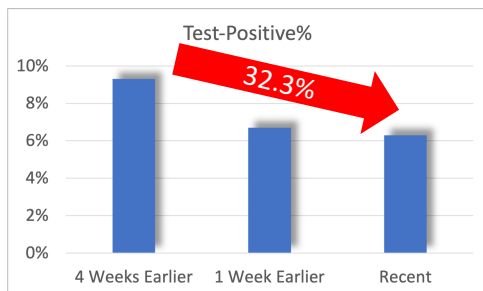
October 11, 2021



Covid-19 "Vital Signs"

Covid Snapshot – Comparing Last Week to Prior Weeks

Across several key metrics, Covid experience is improving relative to a week ago and to four weeks ago.



Covid-19 "Vital Signs"

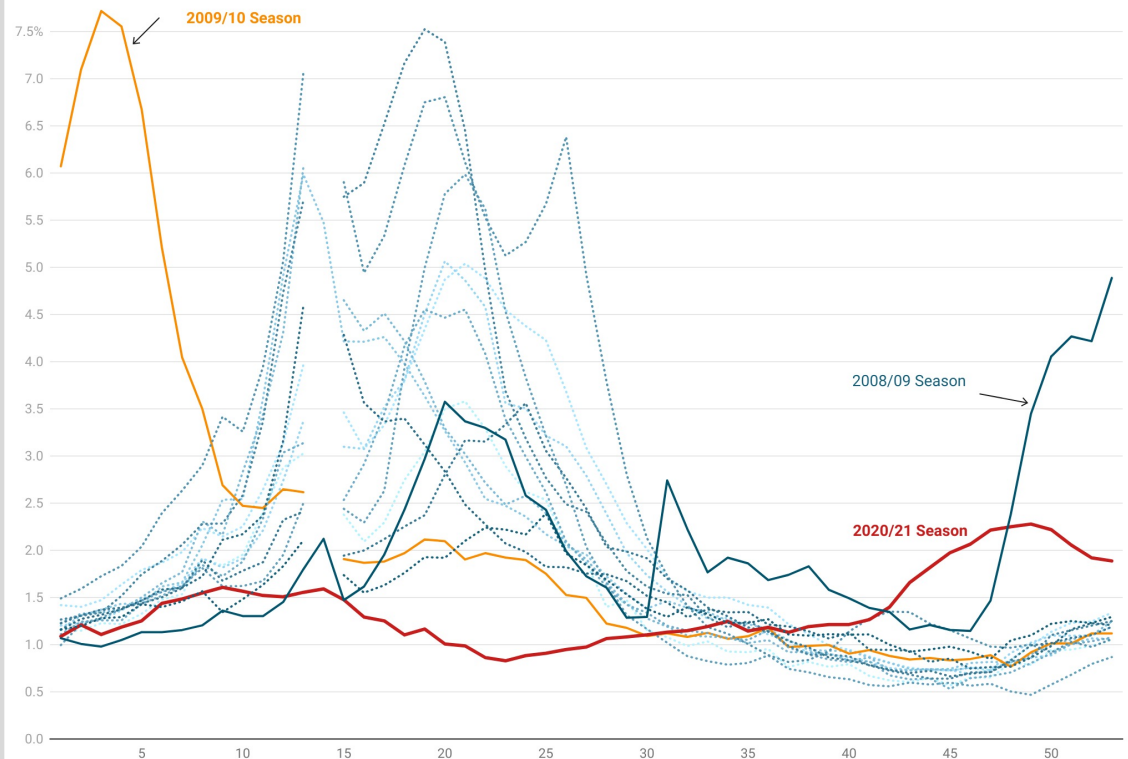
Comparison of Flu Seasons

After a concerning run-up in flu cases last month, these visits have slowed in recent weeks. However, they remain higher than experienced last winter.

- Last Winter, we enjoyed the mildest flu experience in at least fifteen years
- However, as we approach the 2021/22 season, we need to be vigilant of the possibility of a severe season this Winter:
 - We are seeing more visits than during the peak of the season last Winter
 - Only the 2008/09 season ended in worse shape than we are in now. The subsequent 2009/2010 season was among the worst we have experienced in fifteen years
 - This 2009/10 season also reached peak earlier than in any other season

Percentage Visits for Influenza-Like Illness, National Summary

Comparison of Last Fifteen Seasons



Reported by: U.S. WHO/NREVSS Collaborating Laboratories and ILINet

Chart: Health Industry Advisor LLC • Source: Centers For Disease Control and Prevention • Created with Datawrapper

Flu Situation By State

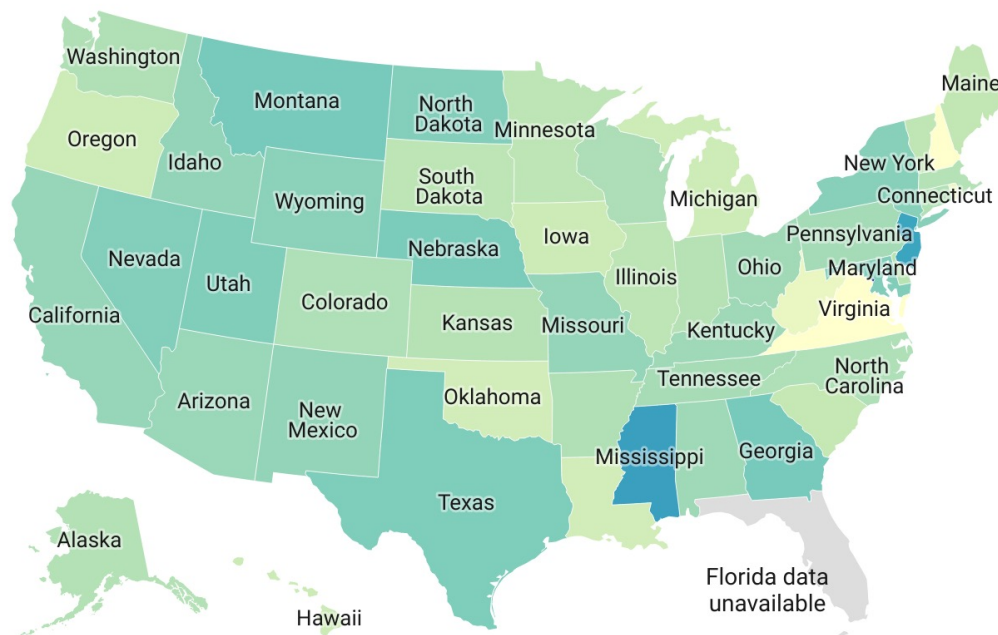
Sixteen states are seeing more than twice as many flu visits as this time one year ago. Rates in four states exceed last year's peak visits.

As of the week ending September 18:

- The 2021/22 flu season has just started
- However, four states are experiencing higher flu visit rates than at any time during the 2020/21 season:
 - Massachusetts, Montana, New Jersey, and Washington
- Rates in sixteen states are at least double what they were one year ago:
 - California, Delaware, Indiana, Maine, Maryland, Michigan, Nevada, New Jersey, New Mexico, North Carolina, Ohio, Pennsylvania, Texas, Utah, Washington, and Wyoming.

Percentage of Visits for Influenza-Like Illnesses

Week ending October 2, 2021



Reported by: U.S. WHO/NREVSS Collaborating Laboratories and ILINet

Map: Health Industry Advisor LLC • Source: Centers for Disease Control and Prevention • Created with Datawrapper

Vaccination Status By Age – United States

8.6% of seniors have received a booster shot already. This exceeds the number of seniors that remain unvaccinated. 42.2% of eligible teens and 26.4% of non-senior adults are unvaccinated.

Vaccination Status By Age

As of October 7

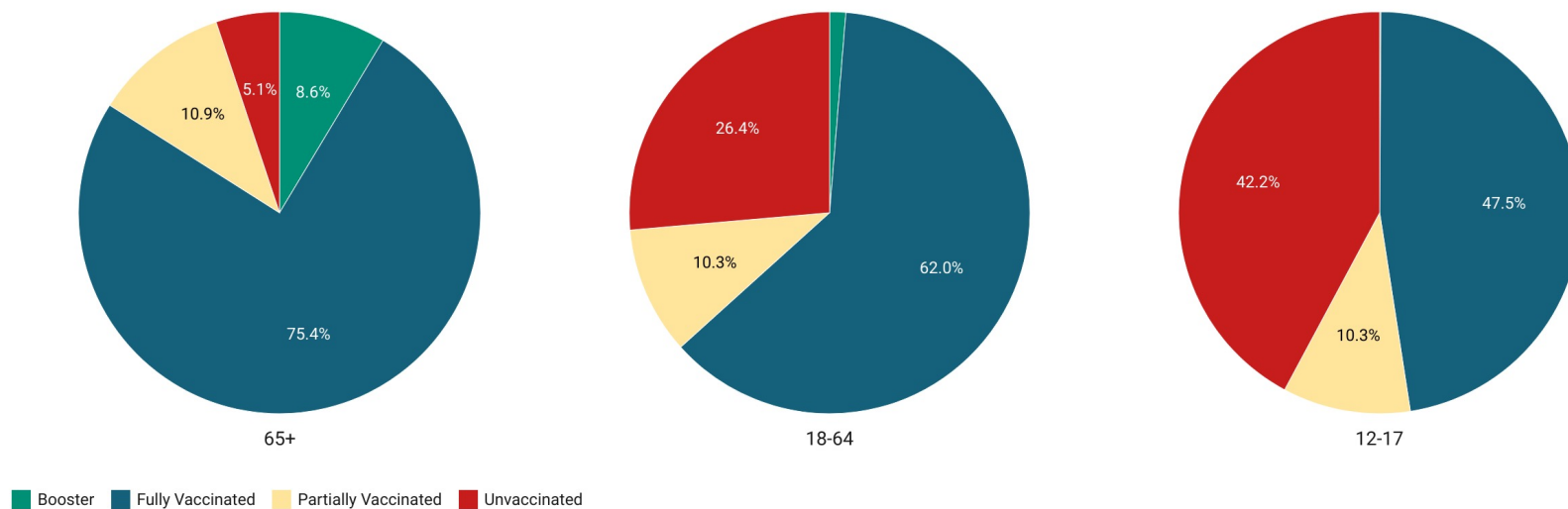


Chart: Health Industry Advisor LLC • Source: CDC • Created with Datawrapper

Vaccination Status By Age

Two-thirds of all adults 25-to-39-years-and older are fully vaccinated. More than four in five seniors are fully vaccinated. Fewer than half of those 12-to-15-years-old are fully vaccinated.

% Fully Vaccinated By Age

As of October 7

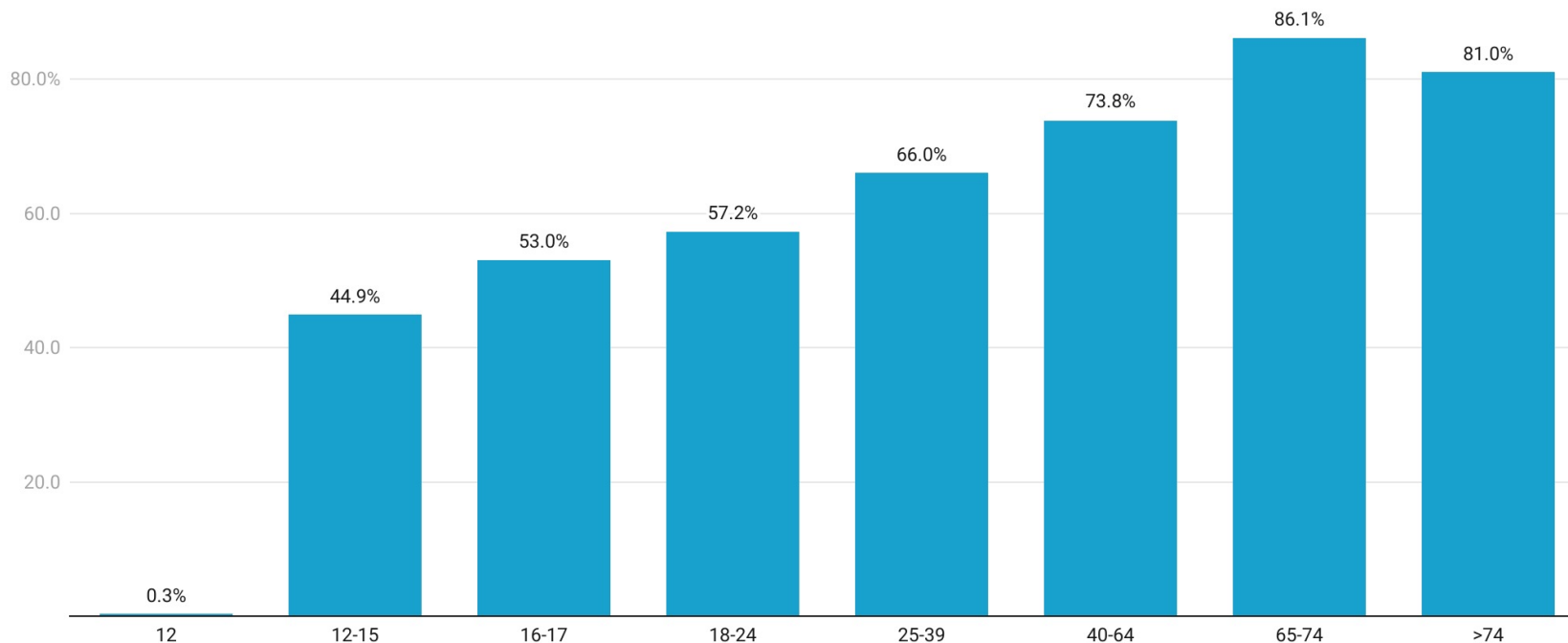


Chart: Health Industry advisor LLC • Source: Centers for Disease Control and Prevention • Created with Datawrapper

Vaccinations Last Week

Four in ten vaccines administered last week were booster shots. Three in ten were initial vaccinations.

Doses Administered

October 1-7, 2021

Boosters Second Doses First Doses

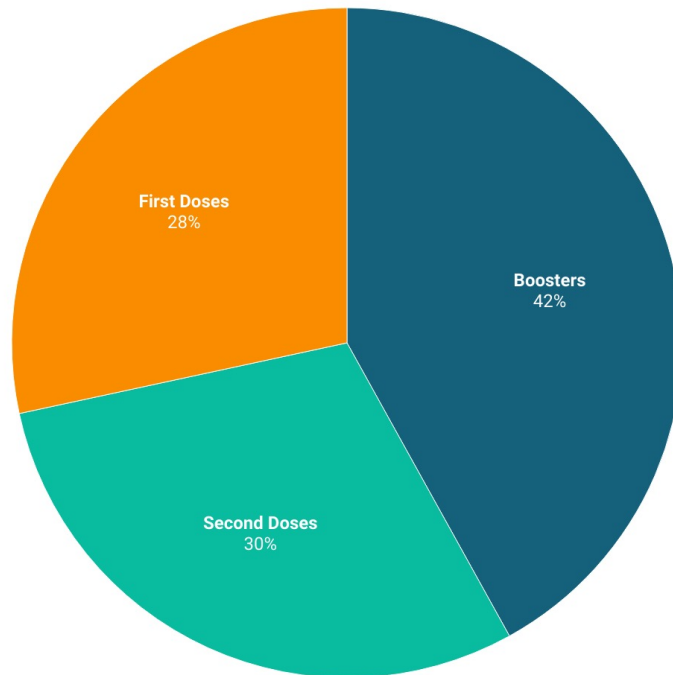


Chart: Health Industry Advisor LLC • Source: Centers for Disease Control and Prevention • Created with Datawrapper

Vaccination Trends By Age

Persons 65-to-74-years old are most likely to be fully vaccinated, followed by persons 75-and-older. Eligible teenagers are least likely to be vaccinated but, rates are increasing fastest among this age group.

Vaccination Status By Age

% Fully Vaccinated

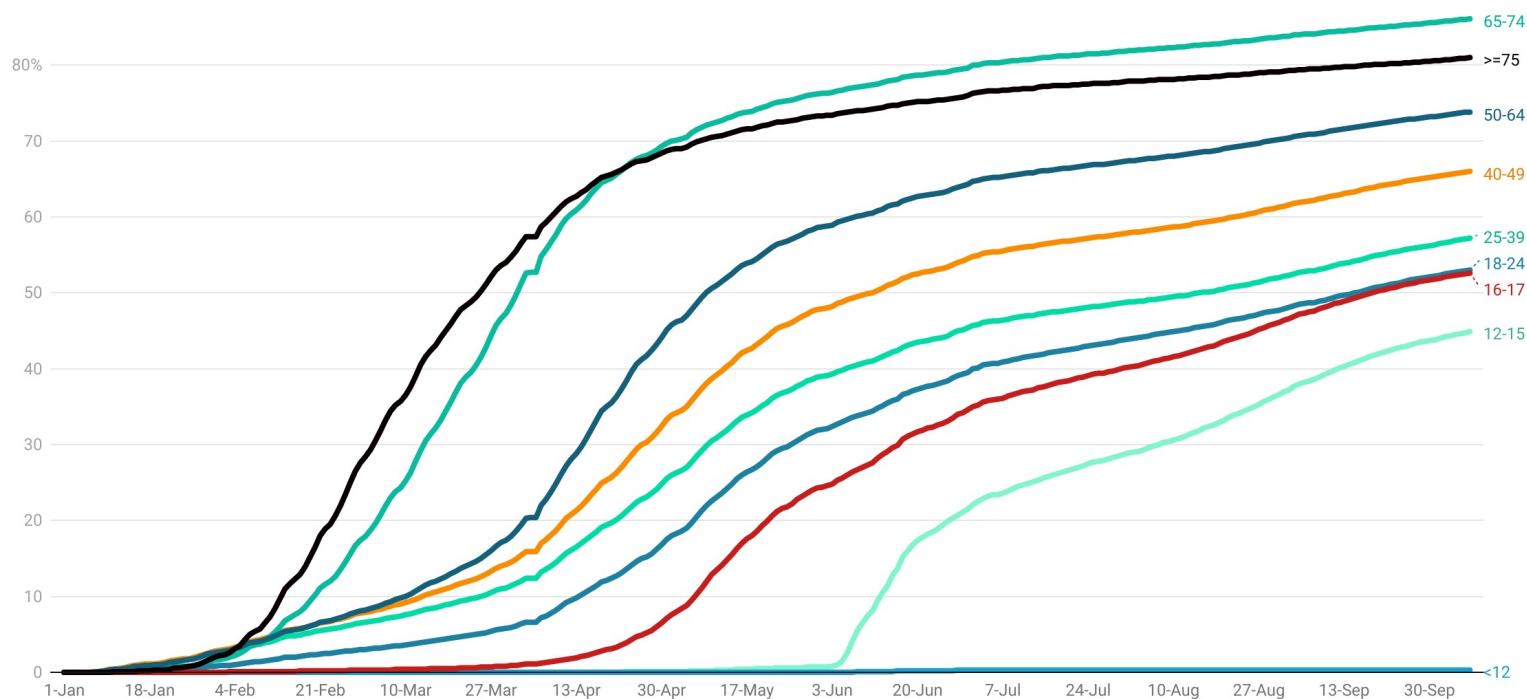


Chart: Health Industry Advisor LLC • Source: Centers for Disease Control and Prevention • Created with Datawrapper

Test-Positive Rate

The test-positive rate continues to drop.

Test-Positivity Rate

7-Day Average, Through October 2

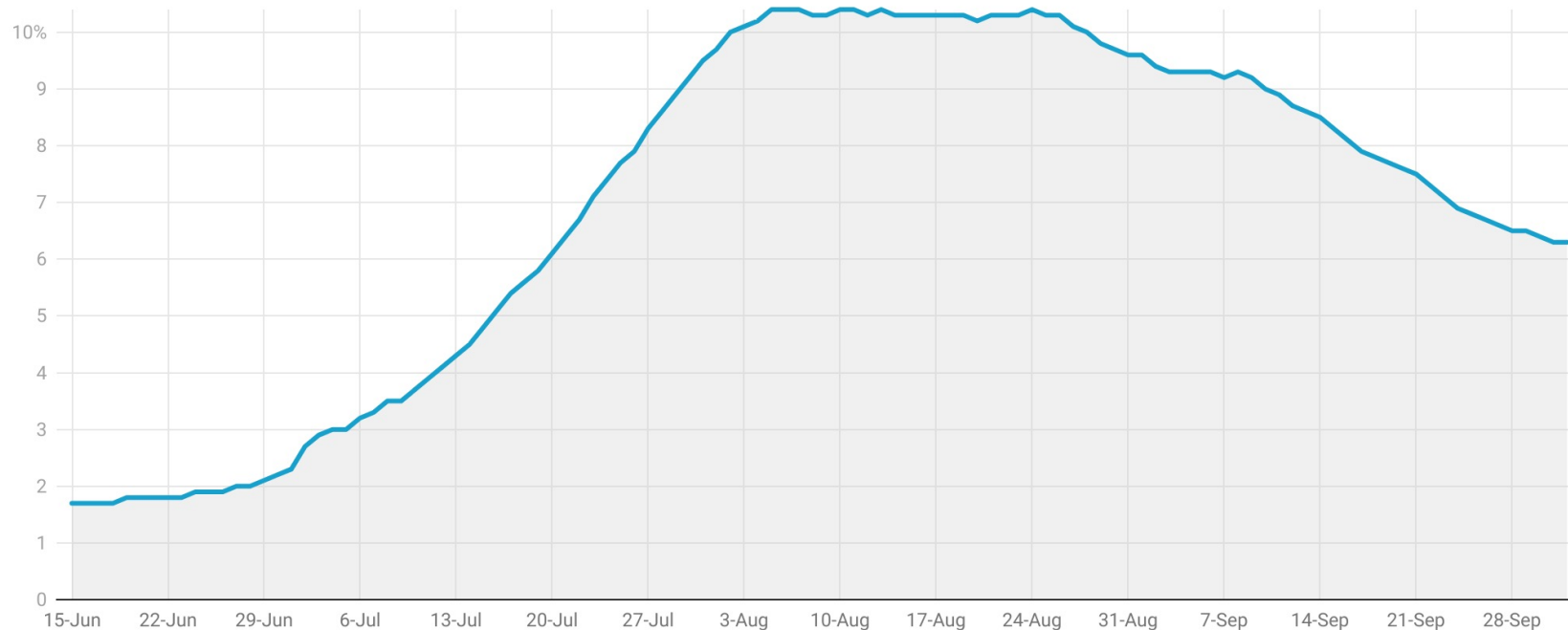


Chart: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper

7-Day Average Test-Positivity %

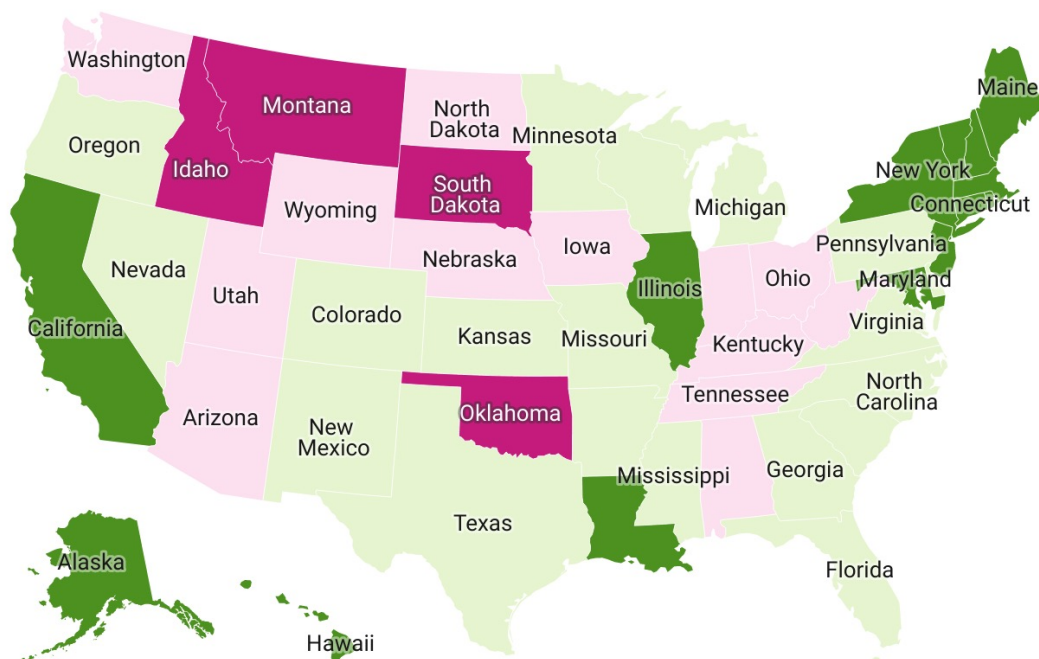
Test-positivity rates are improving but, still higher than recommended by public health officials.

- Several states continue to post high test-positive rates (>15%):
 - Idaho, Montana, Oklahoma, and South Dakota
- Several states report rates that beat recommended targets (<5%):
 - Alaska, California, Connecticut, Hawaii, Illinois, Louisiana, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island, and Vermont.

Test Positivity %

Latest Available Data, As of October 2

■ < 5%
 ■ 5%–10%
 ■ 10%–15%
 ■ ≥ 15%



Map: Health Industry Advisor LLC • Source: U.S. Department of Health & Human Services • Created with Datawrapper

Covid-19 "Vital Signs"

Estimated Daily Infections & New Case Rates

Estimated infections are falling even faster than detected cases.

- Estimated new daily cases peaked on August 31
- Since then, these infections plunged 65%
- Infections are lower than they have been in more than eleven weeks.

Estimated Daily Infections v. Detected Cases

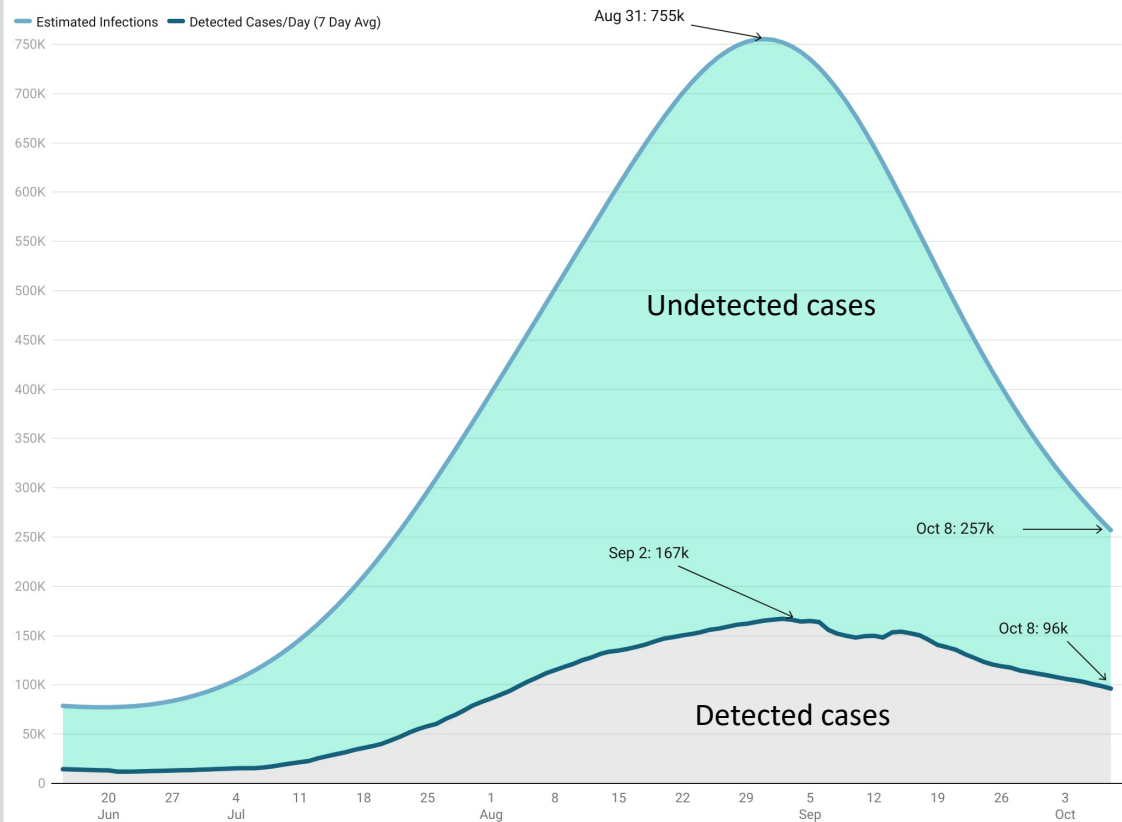


Chart: Health Industry Advisor LLC • Source: Yale School of Public Health • Created with Datawrapper

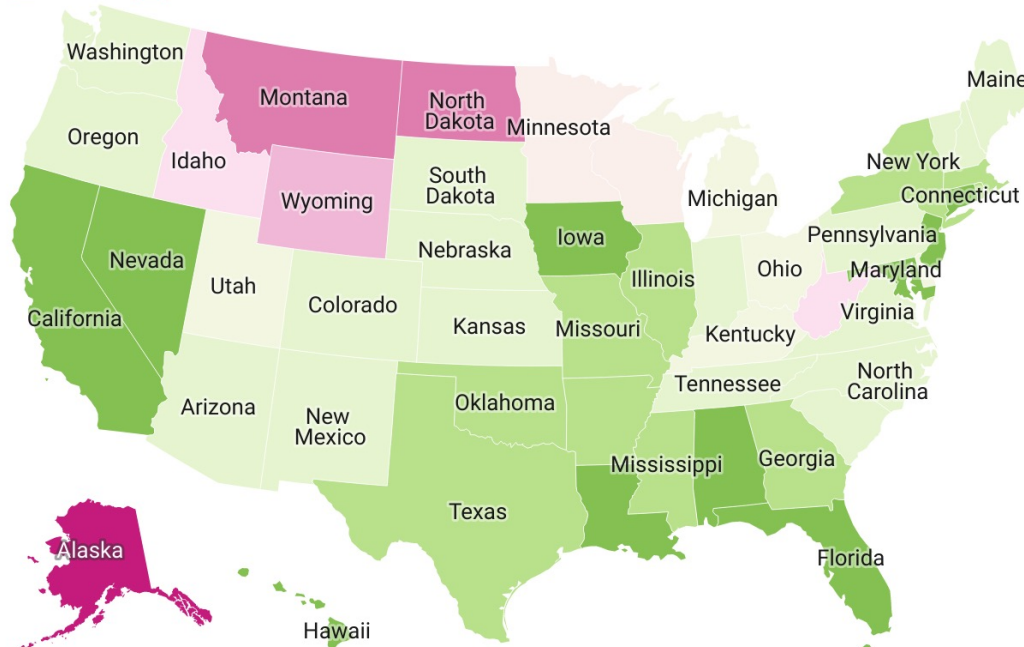
New Daily Cases per Capita By State

Pockets of high case rates are found across the country.

- Alaska, Idaho, Montana, North Dakota, West Virginia, and Wyoming posted the highest rates of new cases per capita, as of Friday
- Alabama, California, Connecticut, Florida, Hawaii, Louisiana, Maryland, Nevada, and New Jersey have the lowest rates in the country.

New Cases / Million

7-Day Average, As of October 8



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

Covid-19 "Vital Signs"

Covid Admissions and Hospital Census By Age

Seniors are twice as likely to be admitted for Covid reasons than 50-to-64-year-olds; in turn, 50-to-64-year-olds are twice as likely to be admitted as 18-to-49-year-olds. Children and teenagers remain relatively unlikely to require hospitalization.

Covid Admissions to Hospital

Rate per 100,000, Week of October 2

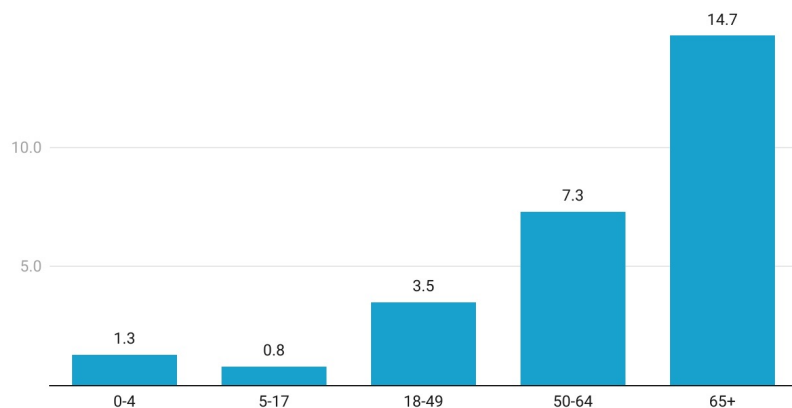


Chart: Health Industry Advisor LLC • Source: Centers for Disease Control and prevention • Created with Datawrapper

Inpatient Mix: Covid Patients By Age

As of October 2, 2021

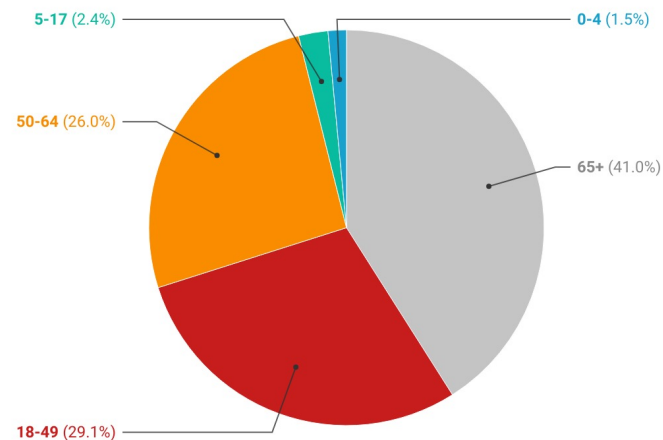


Chart: Health Industry Advisor LLC • Source: Centers for Disease Control and prevention • Created with Datawrapper

Covid-19 "Vital Signs"

Inpatient Covid Admissions and Census

Inpatient census and admissions are declining for the United States in total.

Admissions have dropped 42% since late August. Census has declined 32% since early September.

Covid-19 Admissions & Inpatient Census

As of October 6

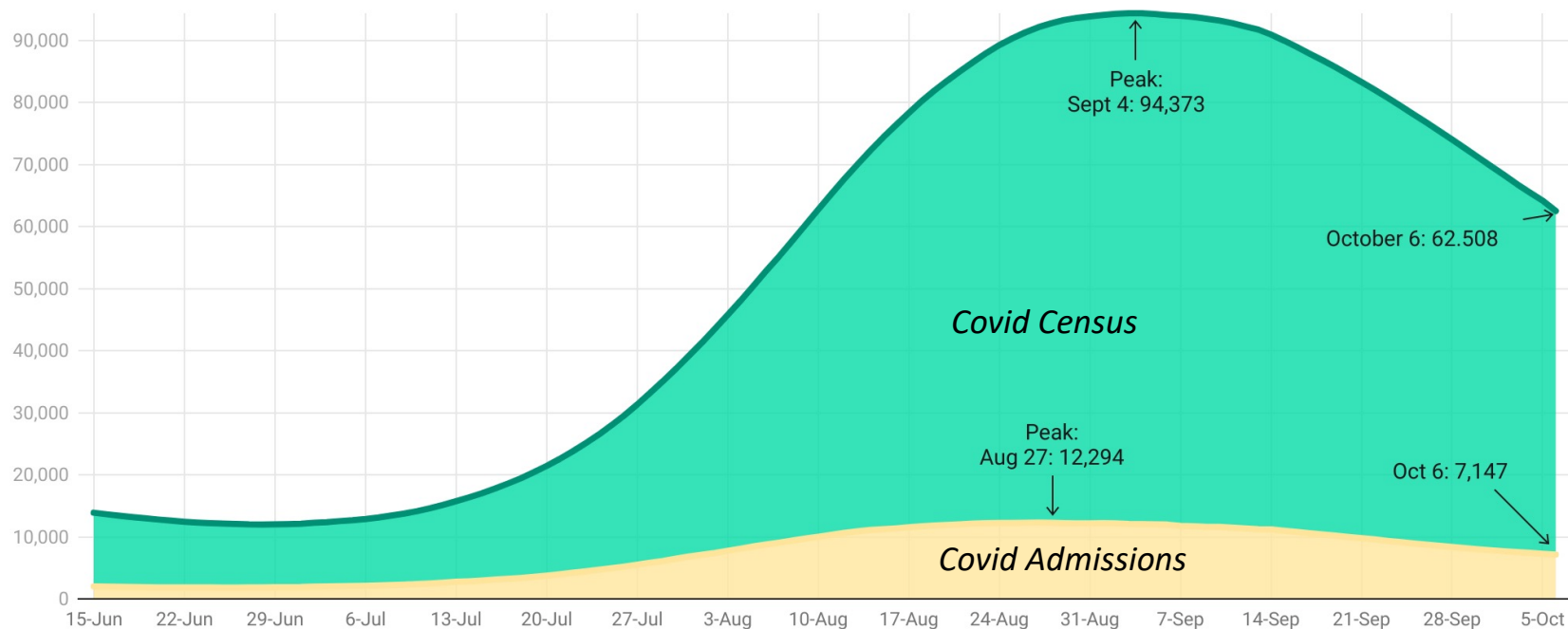


Chart: Health Industry Advisor LLC • Source: Centers for Disease Control and Prevention • Created with Datawrapper

Covid-19 "Vital Signs"

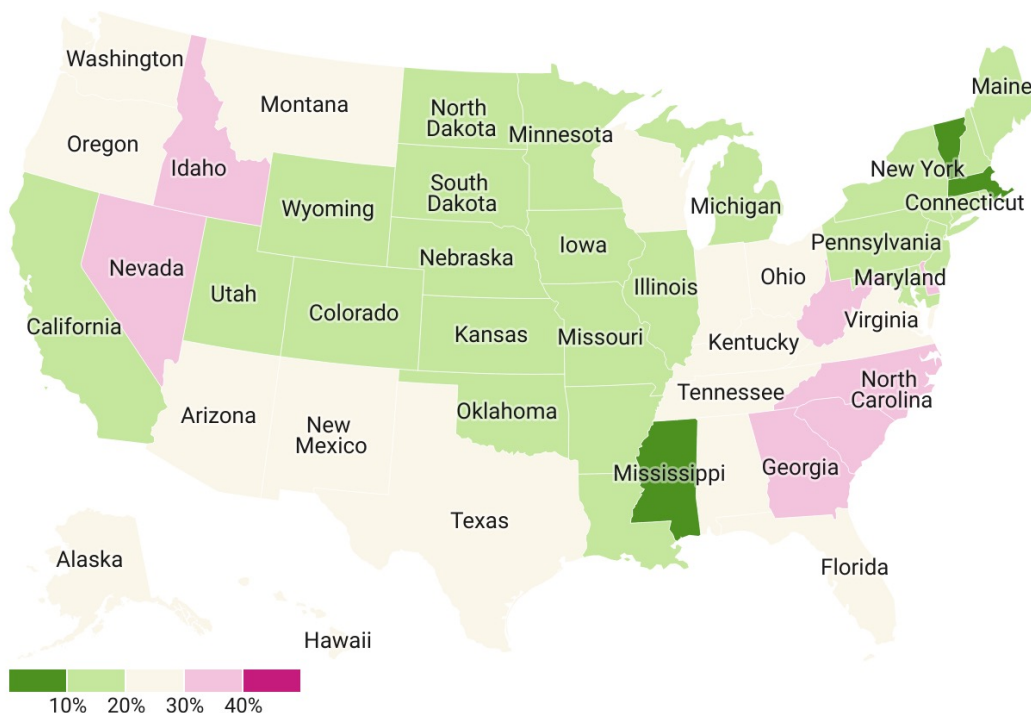
Covid Hospital Occupancy By State

Covid inpatient census is falling but, remains too high in several states.

- Covid patients account for one-third of available beds in Delaware, Georgia, Idaho, Nevada, North Carolina, South Carolina, and West Virginia
- In Massachusetts, Mississippi, and Vermont, Covid patients occupy fewer than 10% of available beds

Covid-19 Patients As % of All Inpatient Beds

As of October 6



Map: Health Industry Advisor LLC • Source: Centers for Disease Control and Prevention • Created with Datawrapper

Deaths with Covid-19

Deaths with Covid-19 are dropping, following an extended rise in late-Summer.

Deaths With Coronavirus

7-Day Average, Through October 8

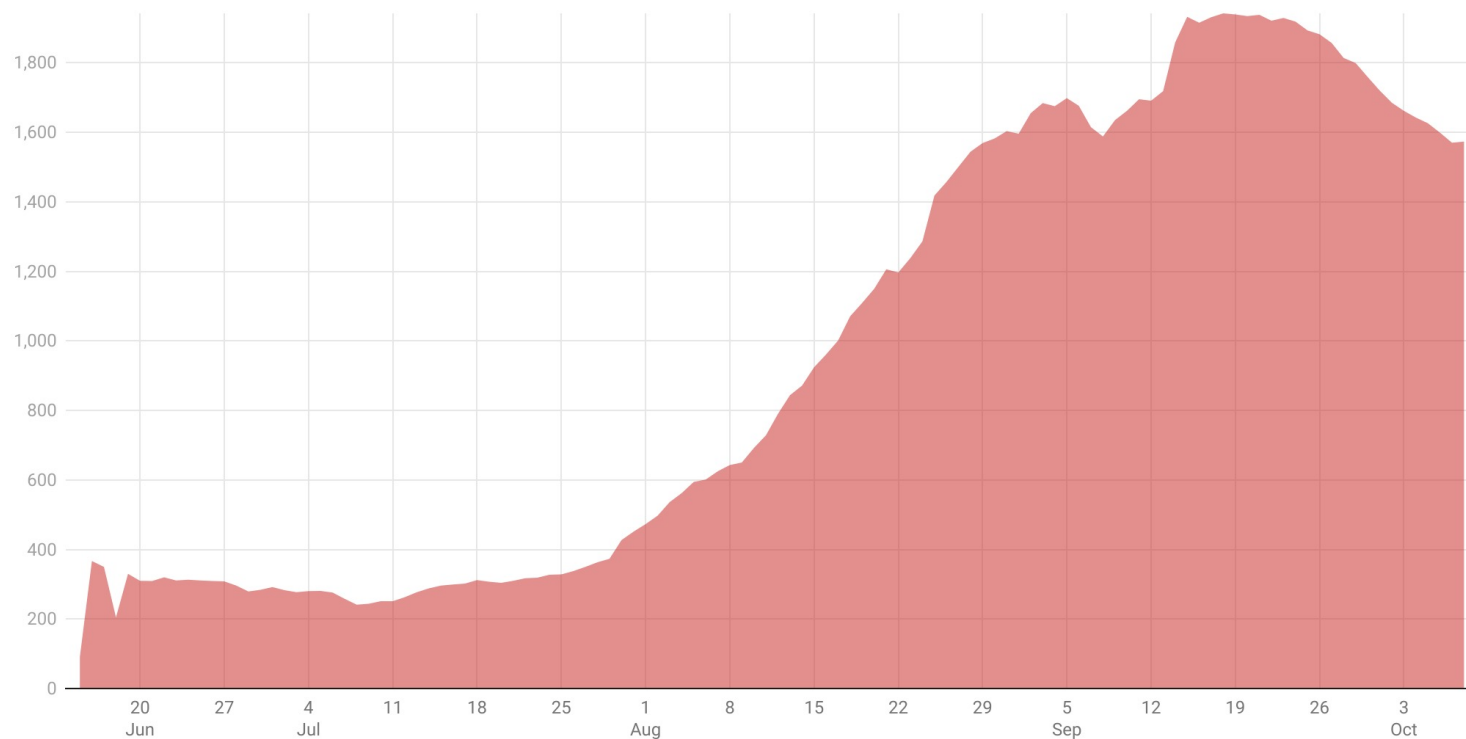


Chart: Health Industry Advisor LLC • Created with Datawrapper

Sources

The following data sources are accessed on a daily or weekly basis

- U.S. Department of Health & Human Services: <https://healthdata.gov/dataset/covid-19-estimated-patient-impact-and-hospital-capacity-state>
- U.S. Department of Health & Human Services <https://beta.healthdata.gov/dataset/COVID-19-Diagnostic-Laboratory-Testing-PCR-Testing/j8mb-icvb>
- 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>
- Our World In Data, <https://ourworldindata.org/covid-vaccinations>
- Covid-19 Forecast Hub, <https://viz.covid19forecasthub.org>
- Yale School of Public Health & Harvard TH Chan School of Public Health, <https://covidestim.org>
- Bloomberg Vaccine Trackers, <https://www.bloomberg.com/graphics/covid-vaccine-tracker-global-distribution/?sref=Z0b6TmH>