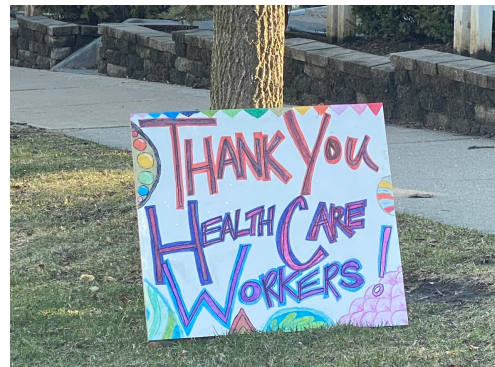
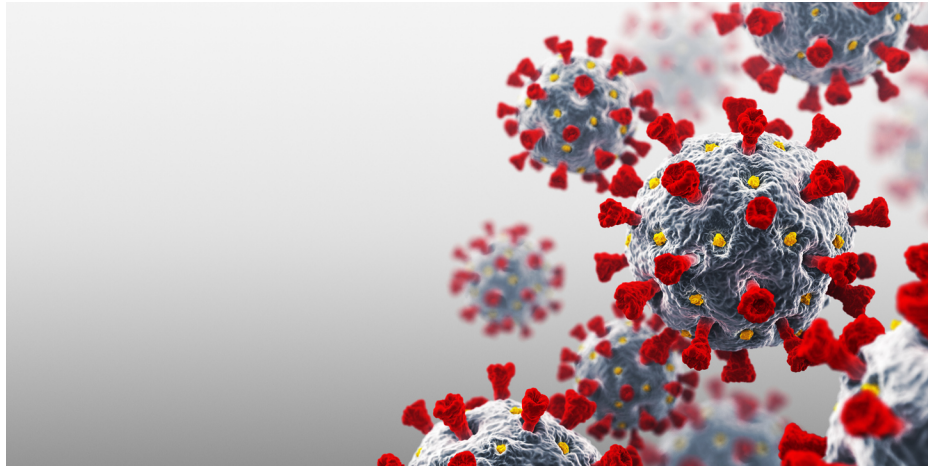
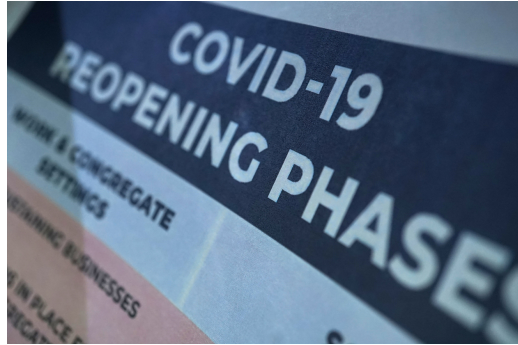




COVID-19 Report

Issue # 160

Saturday, September 12, 2020

- Weekly Summary

- The one area for which progress wasn't achieved - Testing volume declined last week and was the lowest in the past nine weeks.** Testing remains above the minimum targeted by Harvard scientists early in the pandemic, however, and higher than it was from the start of the pandemic through July 10
- The test-positive rate declined for the 8th consecutive week;** It is well-below the target set by the CDC for Phase III re-openings and just higher than the stricter WHO target
- Weekly new cases, and the corresponding new daily infections per capita fell sharply from last week; this represented the 7th consecutive weekly decline in these measures**
- Deaths also declined sharply from last week - the 5th time in the past 6 weeks that has occurred.** There were ~900 fewer deaths last week than the week earlier and ~2,700 fewer than the week of July 25-31. Still, there were ~1,300 more deaths last week than there were the week of June 27-July 3
- Reported recoveries from the virus last week were up sharply from the previous week. This represents the 2nd consecutive weekly increases in reported recoveries
- Inpatient census of COVID-19 patients declined last week, the 7th consecutive weekly decline in this census.** Inpatient days have declined 45% in these seven weeks
- ICU census of COVID-19 patients declined last week, for at least the 6th consecutive week** (prior to that time, fewer states reported these data, rendering comparisons prior to July 25 meaningless)
- COVID-19 ventilator days declined last week, the 6th consecutive weekly decline**

- Friday's Numbers

- Friday's new cases were the 2nd fewest on a Friday in 12 weeks
- Deaths reported on Friday were the 2nd fewest for a Friday in 8 weeks (Note: we included an incorrect graph of Thursday's deaths in yesterday's report; the correct graph is included today. Thursday's deaths were similarly the 2nd fewest for a Thursday in 8 weeks)
- Inpatient census of COVID-19 patients fell sharply yesterday; this was the 42nd time in the past 50 days in which this census declined.** The ratio of ICU patients:total COVID-19 inpatients has been relatively stable since early August
- The % of ER visits that were for COVID-19-like illnesses continued to decline
- ER visits for pneumonia and influenza-like illnesses also continued to decline. **An article published in the Economist this week reported that that "lockdowns have all but eliminated (the) flu season in the southern hemisphere" this year**
- ER visits for Shortness-of-Breath had been declining thought the summer; these increased, however, on three consecutive days**

Weekly Summary – Tests

Test volume improved from last week yet, remains below late-July levels; ahead of earlier months

Test-positive rate continues to improve; now lowest since mid-June

Weekly Tests - United States

For the 7 days ending on date shown

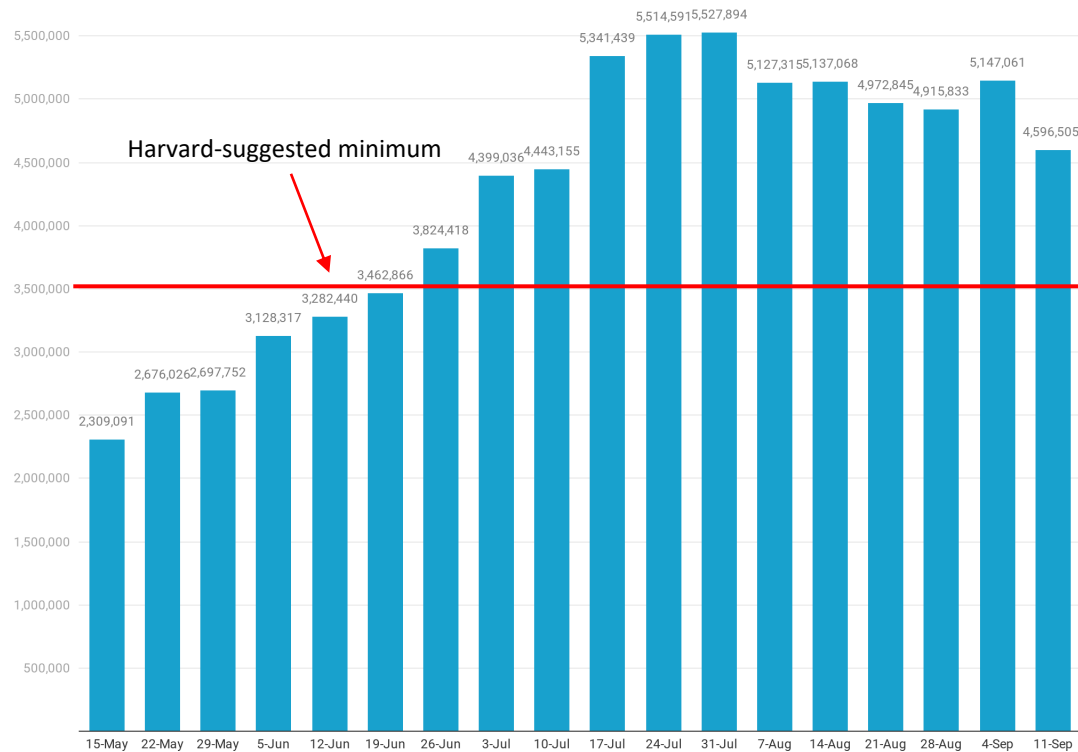


Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking Project • Created with Datawrapper

Weekly Test-Positive% - United States

For the 7 days ending on date shown

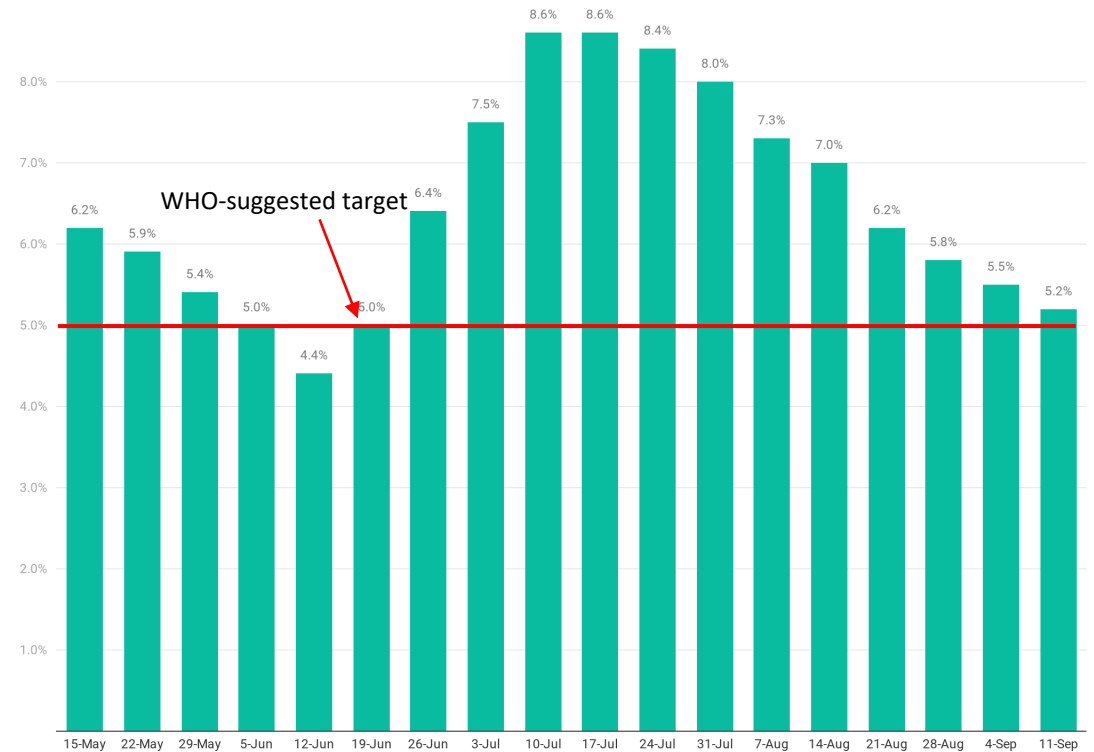


Chart: Health Industry Advisor LLC • Source: The Atlantic's Covid Tracking project • Created with Datawrapper

Weekly Summary – New Cases (Infections)
 New cases fell for the sixth consecutive weeks - although modestly
 Current infection rate is lower than anytime since late-June

Weekly New Cases - United States

For the 7 days ending on date shown

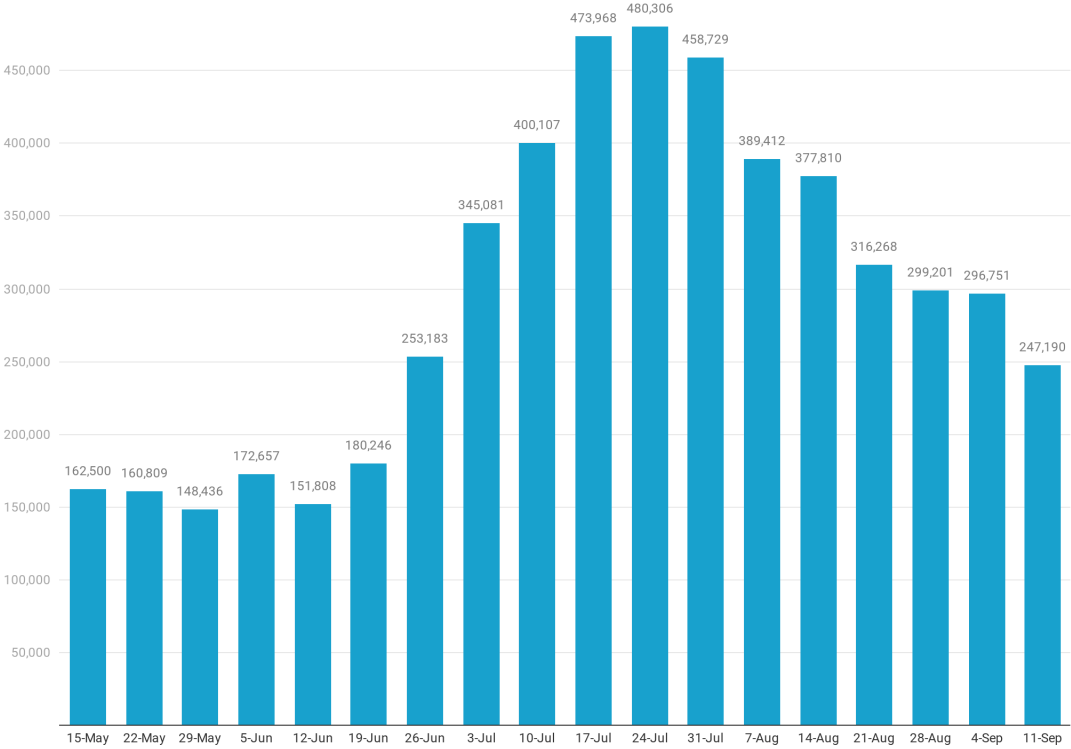


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

New Infections / Million - United States

For the 7 days ending on date shown

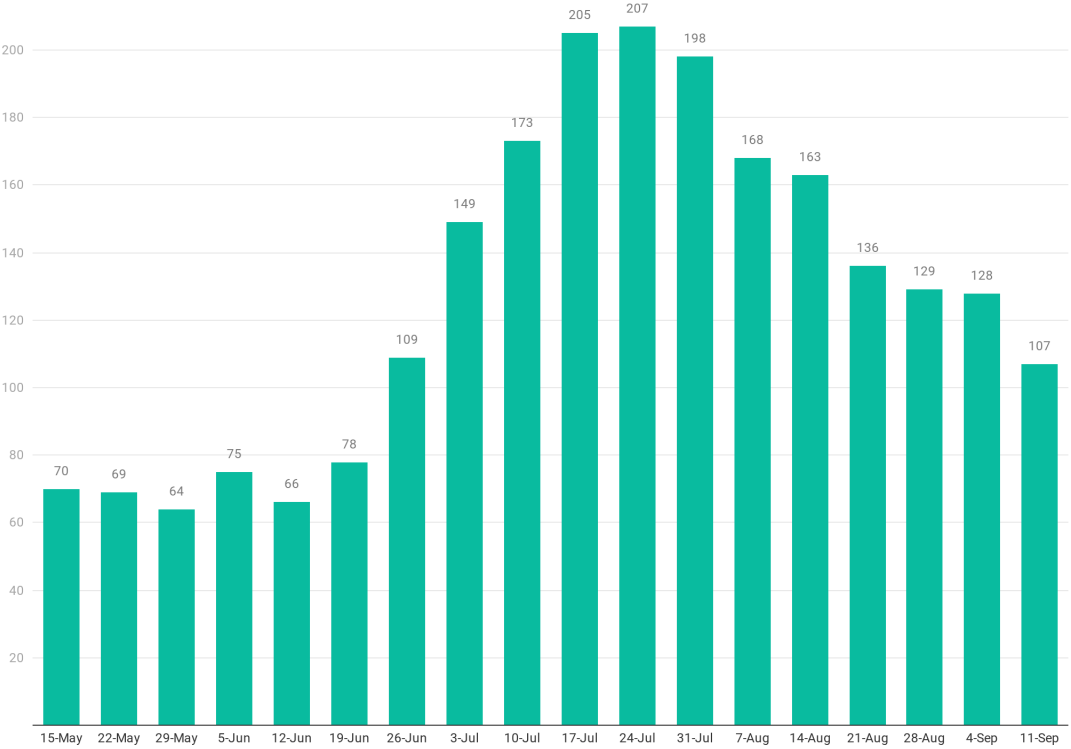


Chart: Health Industry Advisor LLC • Source: Worldometers.info • Created with Datawrapper

Weekly Summary – Deaths and Recoveries

Deaths declined again this week; Fewer deaths this week than anytime since July 11-17

Recoveries were higher this week than each of the past three weeks

Weekly Deaths - United States

For the 7 days ending on date shown

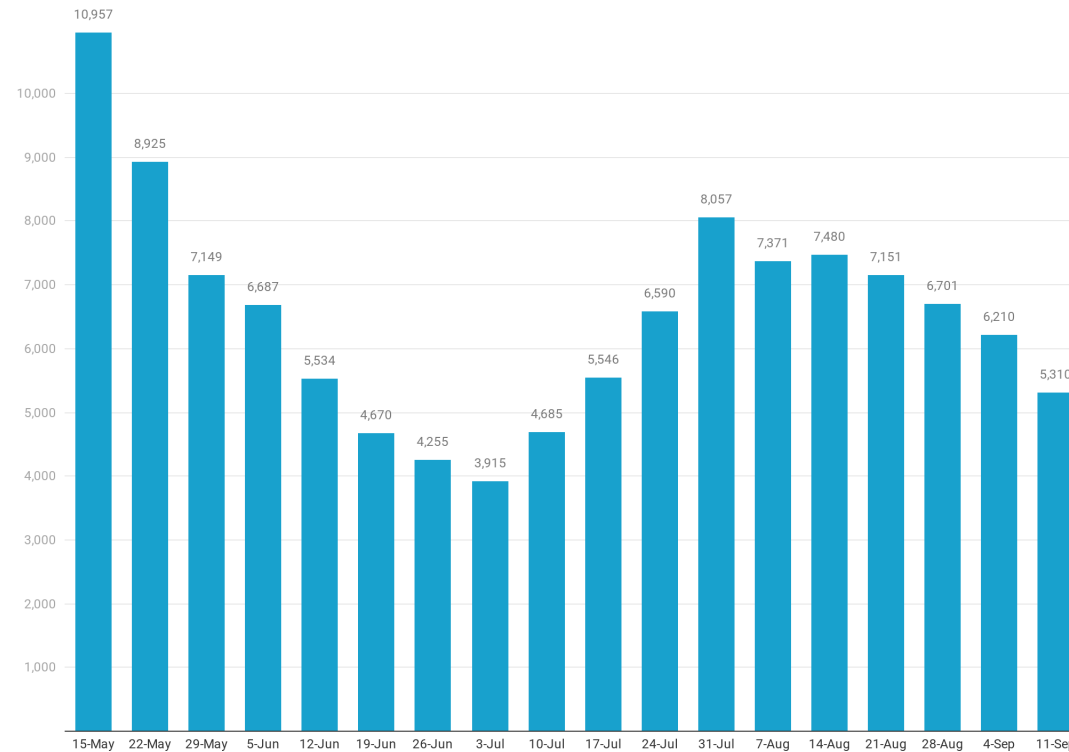


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Weekly Recoveries - United States

For the 7 days ending on date shown

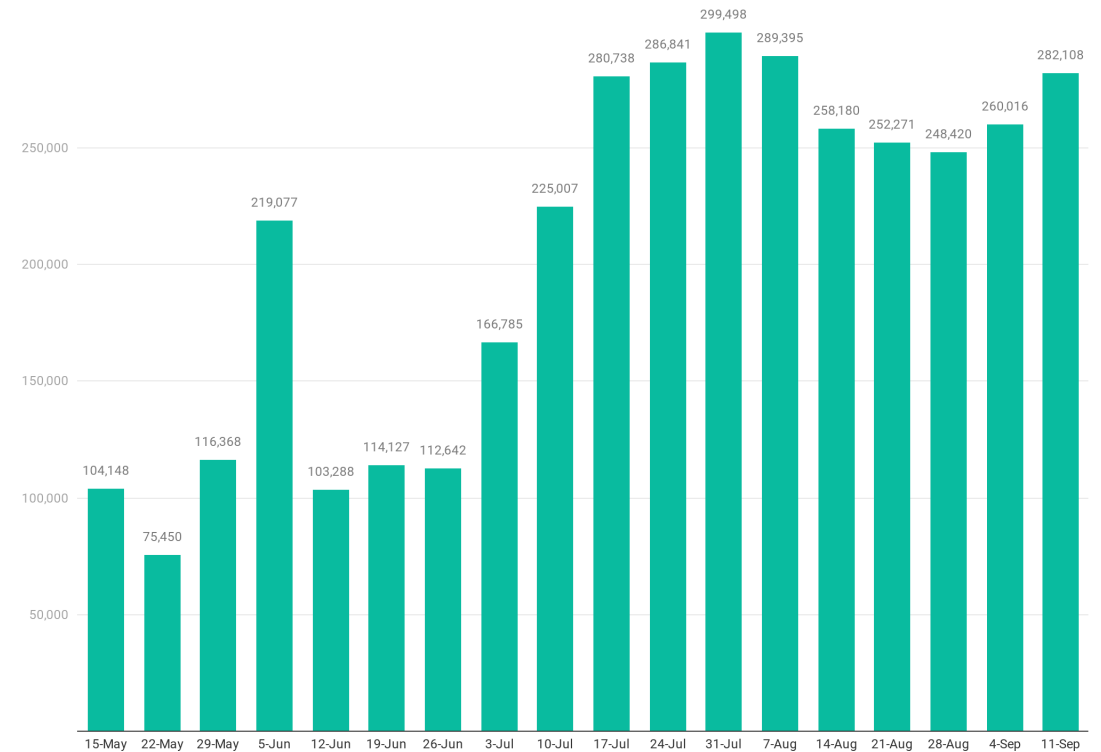
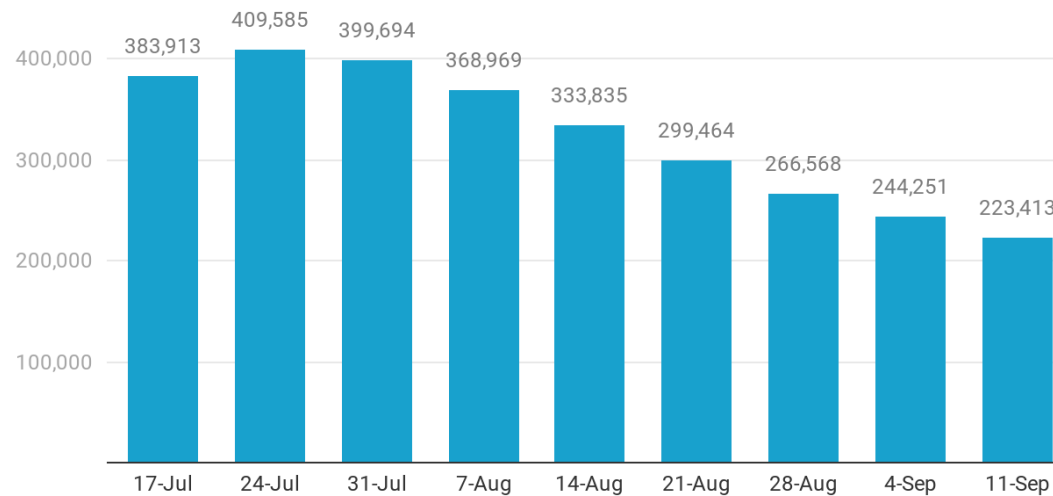


Chart: Health Industry Advisor LLC • Source: worldometers.info • Created with Datawrapper

Demand for inpatient beds, ICU and ventilators continued to decline

Weekly Inpatient Days COVID-19 - United States

For the 7 days ending on date shown

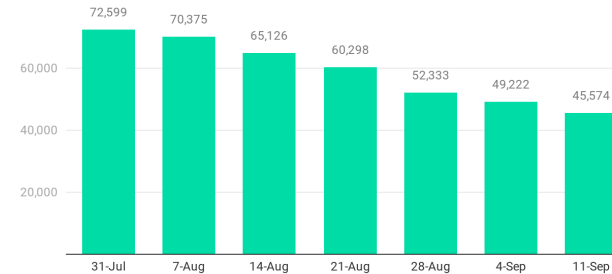


The following states started reporting data on: HI, 7/14; KS, 7/25

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

Weekly ICU Census COVID-19 - United States

For the 7 days ending on date shown

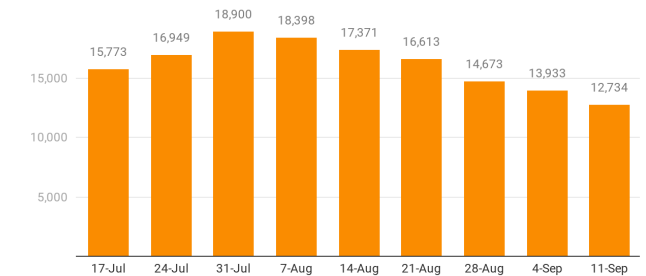


The following states started reporting data on: HI, 7/30; ND, 8/19; SC, 7/28; TN, 8/12. The following states do not report: AL, AK, AR, CO, CT, FL, GA, LA, MD, MT, NE, NH, NM, PA, SD, VT, WA
Chart: Health Industry Advisor LLC • Source: New York Times • Created with Datawrapper

Note: Because fewer states reported these data prior to July 25, we do not go back as far for ICU beds

Ventilator Days COVID-19 - United States

For the 7 days ending on date shown



The following states started reporting data: HI, 7/31; KS, 7/16; SC, 7/24; TN, 8/12. The following states do not report: AL, CA, CO, CT, FL, GA, ID, KY, MD, MN, MT, NH, NM, NC, ND, OK, SD, TX, UT, VT, WI, WY
Chart: Health Industry Advisor LLC • Source: New York Times • Created with Datawrapper

Friday's Experience— New Cases

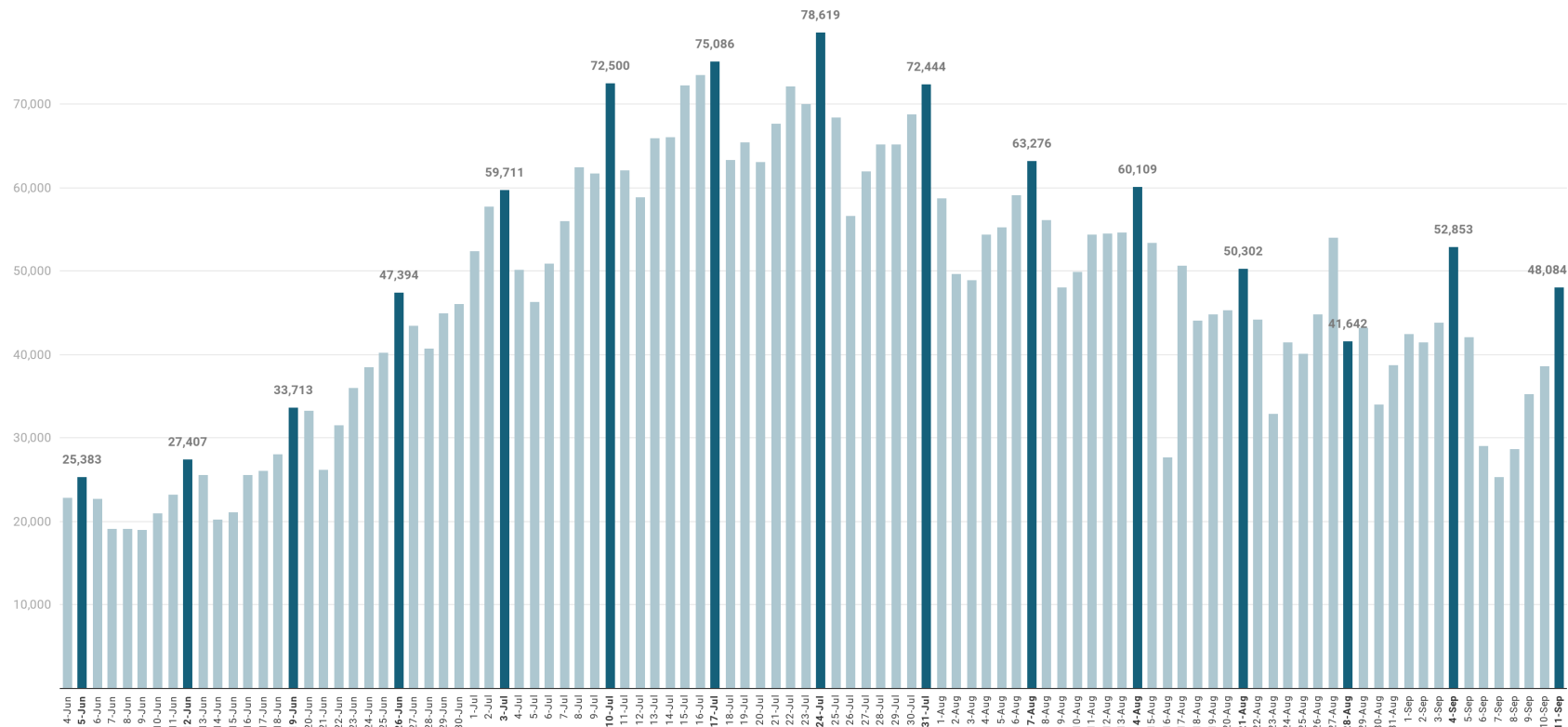
New cases on Friday were the 2nd fewest on a Friday in 12 weeks

New cases remain higher than early-June levels

New Daily Cases

Through September 11

Fridays Highlighted

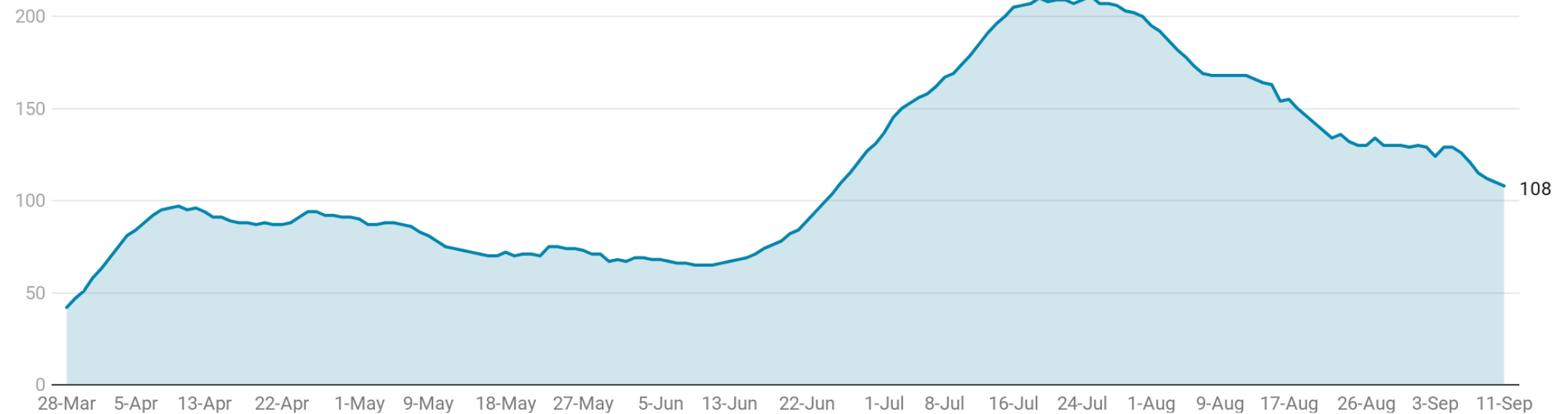


Note the daily pattern: new cases are typically low on Sunday, then increase each day through the week. While we have been noting this for the past few weeks, researchers from MIT, Boston University and Harvard Medical School confirmed this in a report published by CIDRAP on August 17

New infections per capita* dropped again yesterday, to its lowest point since June 25
Rate has dropped nearly 50% since July 22; yet, 65% higher than its June 11 low

New Infections Per 1 Million Population - United States

Trailing 7-Day Moving Average, Through September 11



Health Industry Advisor LLC analysis

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

Thursday & Friday's Experiences – Newly Reported Deaths

Newly reported deaths on Thursday and Friday were each 2nd lowest for the day-of-week in past 8 weeks – although numbers have been close for the past 4 weeks

Thursdays Highlighted

New Reported Deaths

Through September 11

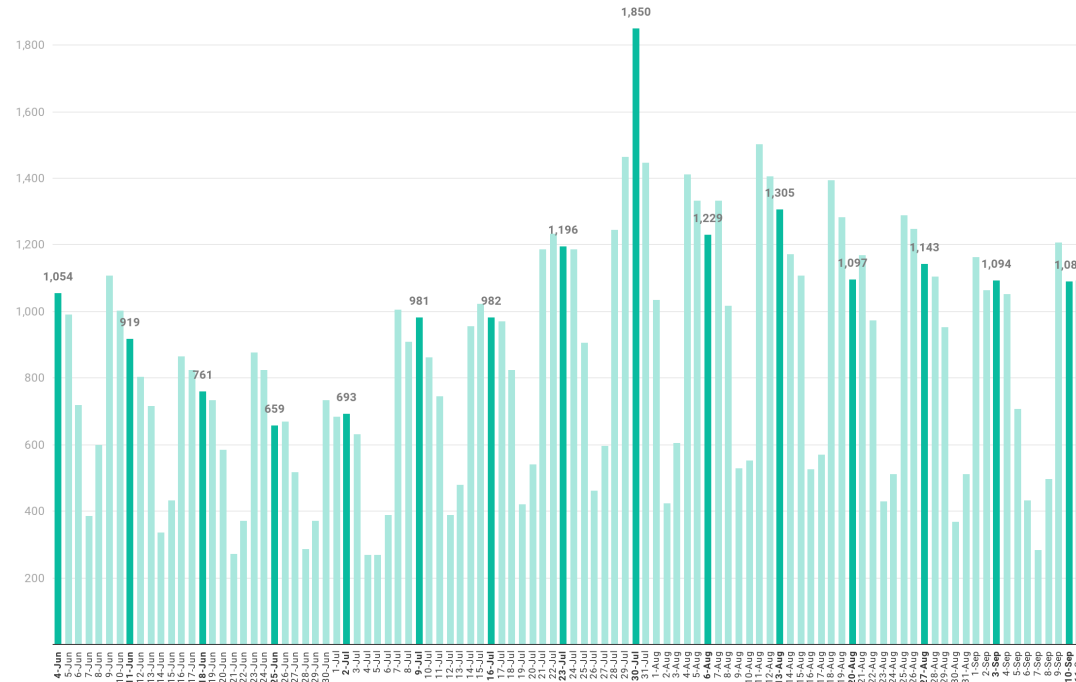


Chart: Health Industry Advisor LLC • Source: eoridometers.info • Created with Datawrapper

New Reported Deaths

Through September 11

Fridays Highlighted

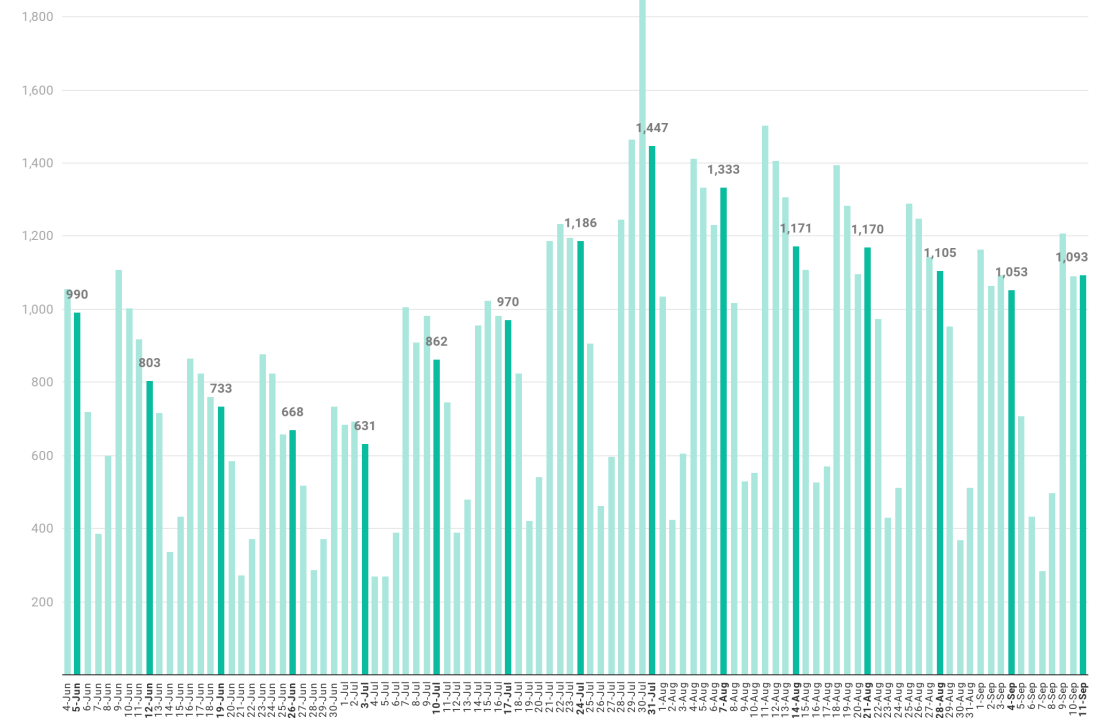
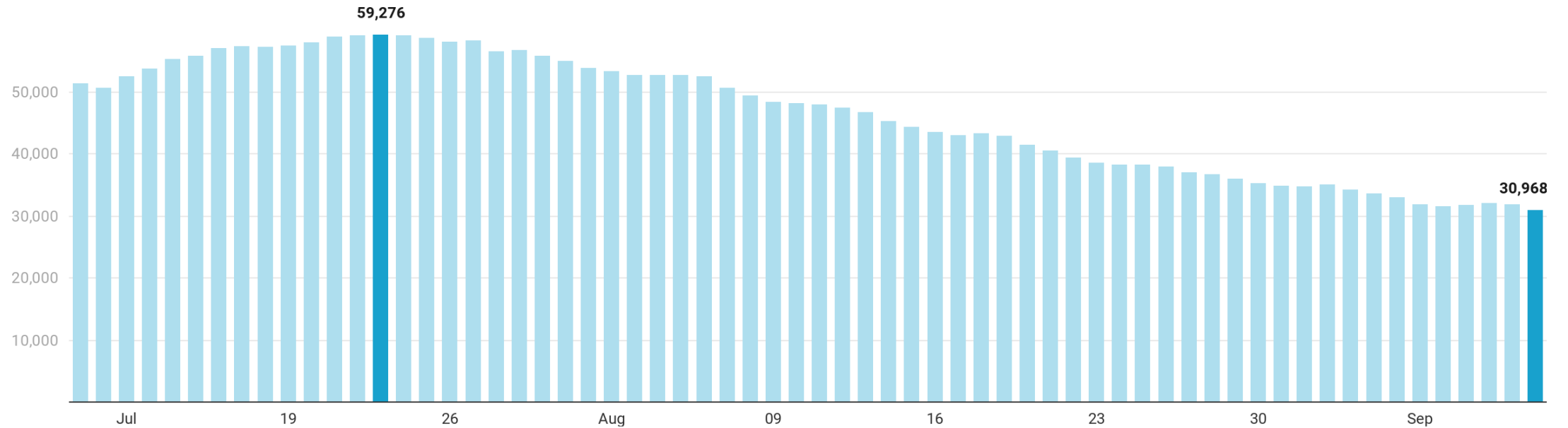


Chart: Health Industry Advisor LLC • Source: eoridometers.info • Created with Datawrapper

Hospital Census: COVID-19 Patients

As of September 11



Florida data first available on July 10

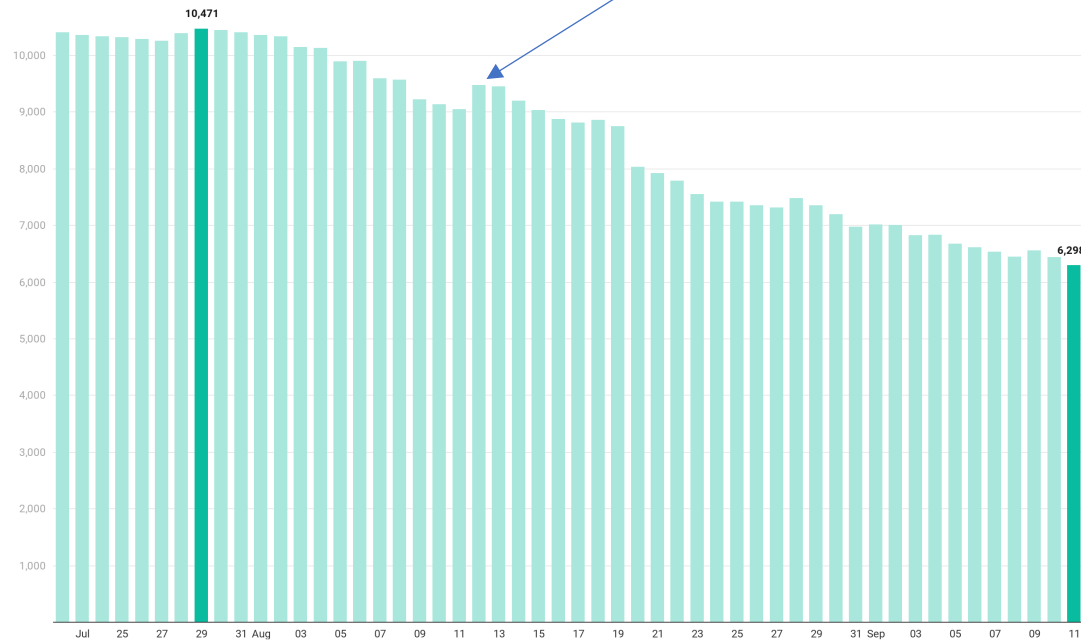
Chart: Health Industry Advisor LLC • Source: the Atlantic's Covid Tracking Project • Created with Datawrapper

Stress on ICU beds and ventilators continues to ease:

Daily ICU census has declined ~40% since mid-July

Recently, % of inpatients in the ICU or on ventilators are both steady or decreasing
... even as census declines

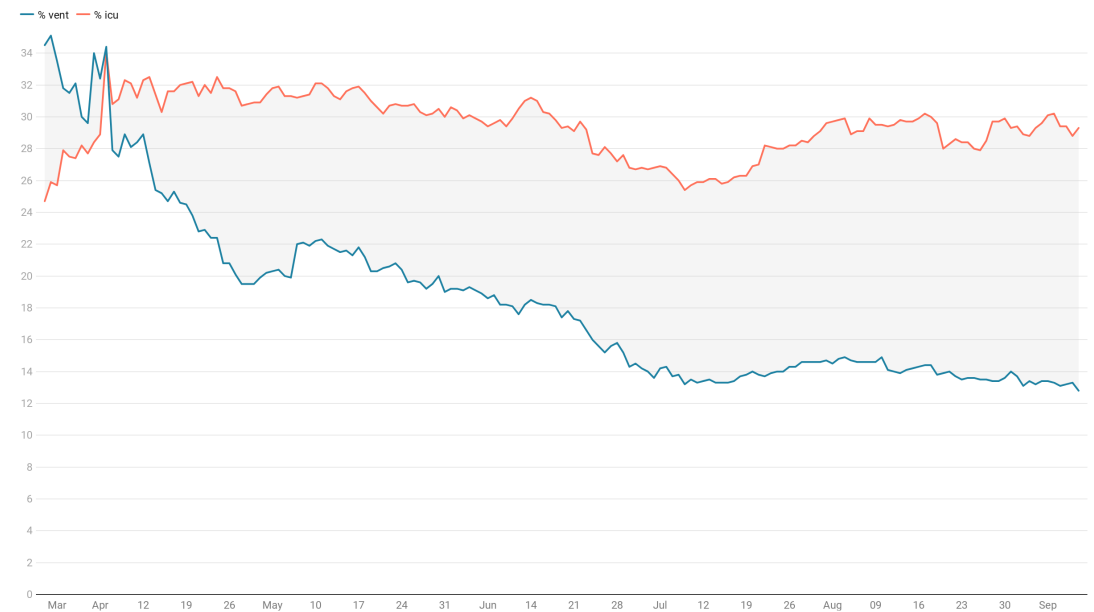
COVID-19 ICU Census



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

Severity of Hospitalized Patients

% of patients on ventilators and in the ICU, As of September 11

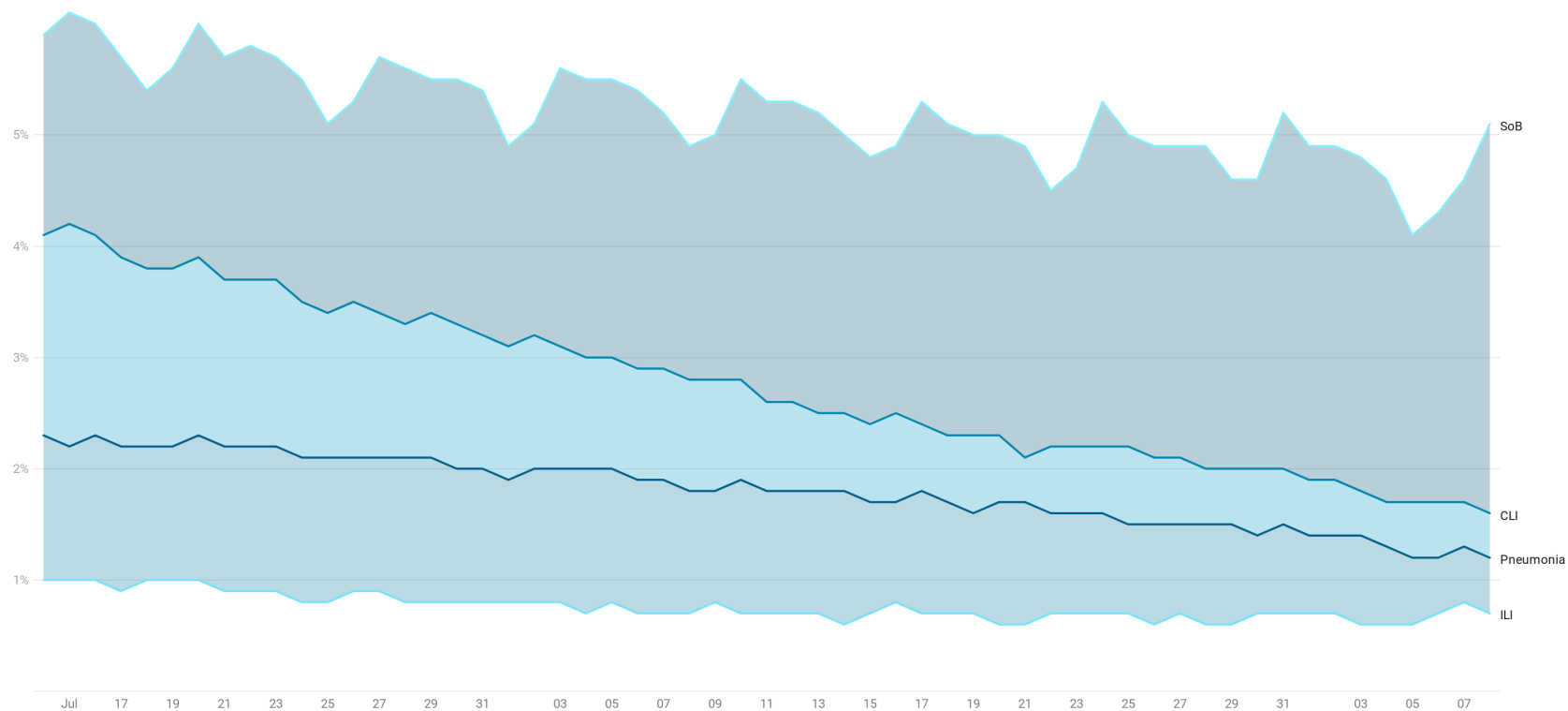


Health Industry Advisor LLC analysis

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

% of Emergency Department Visits for COVID-Like Illness (CLI), Influenza-Like Illness (ILI), Pneumonia & Shortness of Breath (SoB)

As of September 8



Health Industry Advisor LLC analysis

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

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>